

# **FLOW CONTROL**

PRODUCT CATALOGUE

**THE SMARTER CHOICE.**



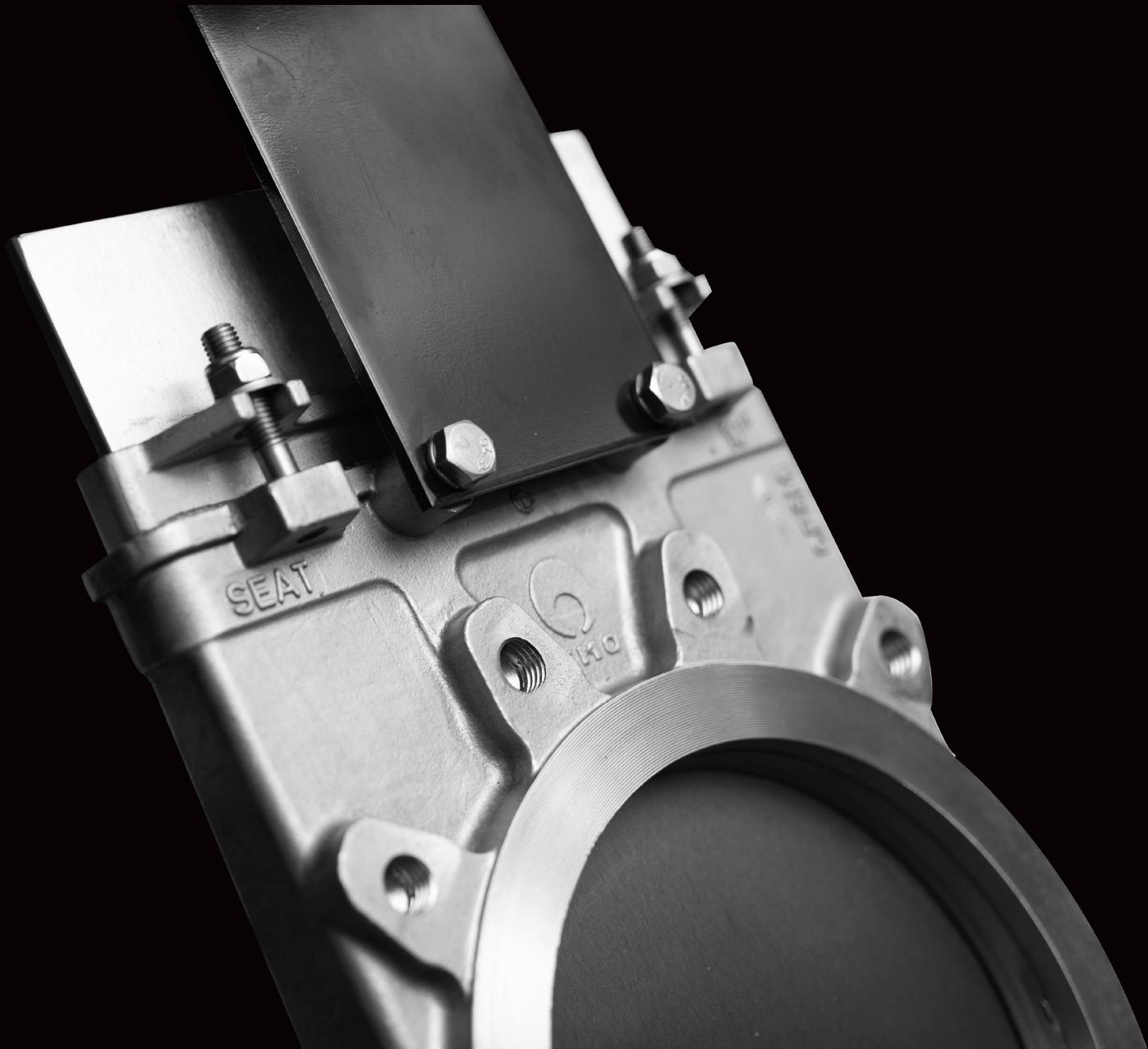
**ASMUSS**  
STEEL & FLOW CONTROL



## FLOW CONTROL

For the most up-to-date pricing and information, please Contact us on:

E [flowcontrol@asmuss.co.nz](mailto:flowcontrol@asmuss.co.nz)



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## OUR STORY.

A successful New Zealand-owned business, Asmuss has been trusted to deliver for over 100 years.

Founded in 1920, the Asmuss Group has supplied product to many of New Zealand's biggest industrial and construction projects and is one of the largest privately owned companies in its field.

A focus on quality products, technical excellence and exceptional customer service has always been our cornerstone philosophy.

We believe business longevity is about having a true partnership with our valued suppliers and customers – to ultimately maintain consistency and quality, and succeed together.

## ONE COMPANY, MANY SOLUTIONS.



Prior to 2020 Asmuss traded nationwide under four separate steel and flow control specialist brands.



To make it easier and more simple for our customers to get everything they need from one place, we've recently brought it all together within one company.



This means we will deliver a greater range of products and provide solutions faster

– but customers can be assured of continued availability to the specialist Asmuss teams they have come to know and trust.



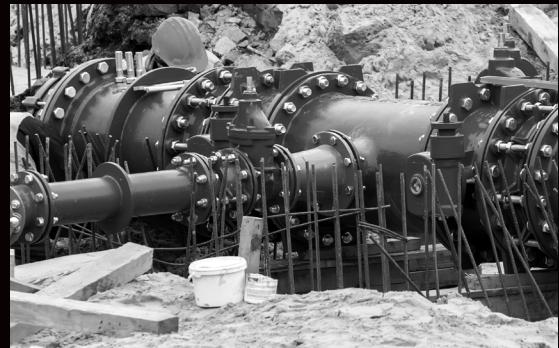
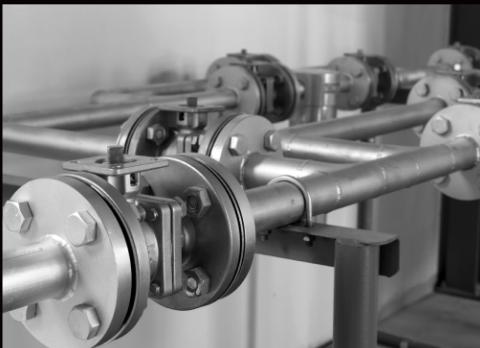
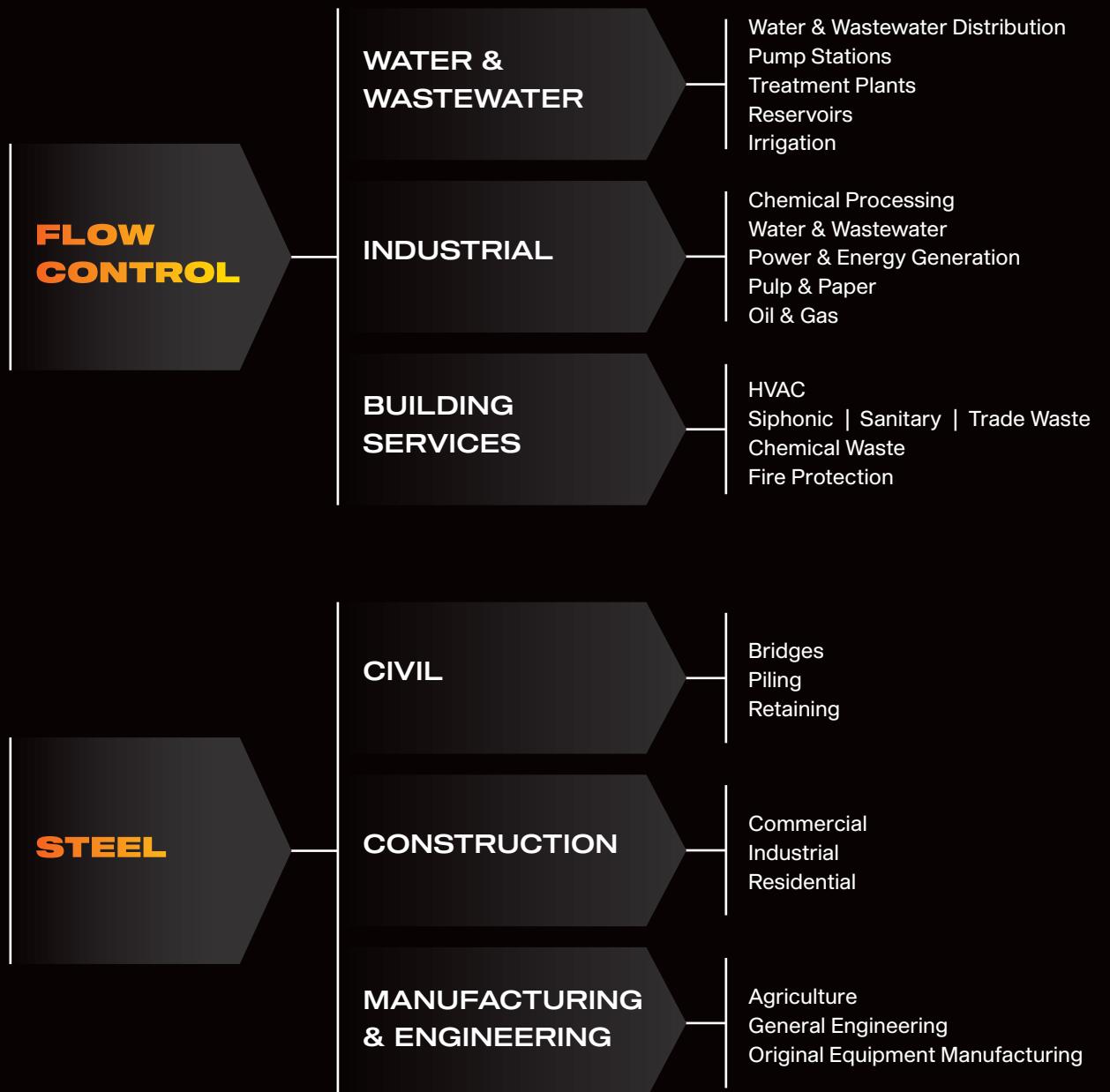
## THE SMARTER CHOICE.

# NATIONWIDE PRESENCE.

With branches strategically located throughout New Zealand, we provide an integrated approach by coordinating our resources across all sites to ensure our customers receive optimal product combinations, tailored to meet specific needs.



# WHAT WE DO.





## WHAT MAKES US DIFFERENT?

We are problem solvers – that's our core business – and we represent some of the world's best steel and flow control brands and products.

Even though our product range is extensive, what makes us different is our people.

We are responsive and easy to deal with; just ask our customers. We build long-term relationships and know our products better than any of our competitors.

By combining our broad product range with local knowledge we offer our clients comprehensive, tailored solutions.

We believe that promptly delivering quality makes infrastructure and construction in New Zealand stronger.

When our customers and suppliers succeed, we succeed.

**We're focussed on creating a stronger New Zealand by helping our customers, communities & people to succeed.**

**THE SMARTER CHOICE.**

# FLOW CONTROL WATER & WASTEWATER.

**Trenchless technologies and fusible piping systems are becoming mainstream in the civil infrastructure space. In response to that, we have increased our capability to sustainably manufacture and source large diameter HDPE pipes, fittings and the tooling required to install them.**

Asmuss provides a comprehensive range of pipe, valve and flow control solutions for civil water and wastewater applications.

Our capability includes design and application advice, assembly, manufacture, fabrication, tools, and testing.

With the best brands in the world, largest stocks in

New Zealand, quality manufacturing and experienced people we have the solution for your application.

Asmuss offers polyethylene, steel, and ductile piping systems for distribution, networks, treatment plants, reservoirs and pump stations.

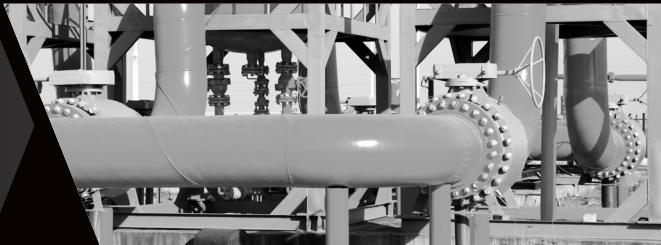




## WATER & WASTEWATER DISTRIBUTION



## PUMP STATIONS



## TREATMENT PLANTS



## RESERVOIRS



## IRRIGATION



# THE SMARTER CHOICE.

# FLOW CONTROL INDUSTRIAL.

**Chemical handling for industry is an area of expertise for Asmuss. The correct material selection and installation are critical for a successful system, as is having a comprehensive range of pipes, fittings, valving and instrumentation.**

Asmuss offers a wide range of industrial plastic piping systems including ABS, PVC, CPVC, PP-H, PVDF and PFA which can be solvent welded, or fusion welded depending on the material and application.

Typical applications include cooling lines to manufacturing equipment, Brine / Glycol lines in food production, chemical conveying for CIP and chemical dosing for water treatment.

Potable water, and treatment for municipal swimming pools are vital., and industrial processes require de-ionised, de-mineralised or filtered water for many

applications. Clean feed water is required for Brine solutions, scrubbers, chemical production, or power generation amongst others.

Water purity is critical in applications such as medical dialysis, medicine production, semi-conductor production and laboratory water. Asmuss can provide systems that provide Type II or even Type I Ultra-pure water by using Infra-red or Bead and Crevice free welding.





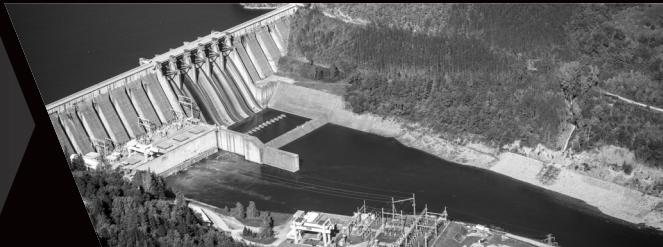
**CHEMICAL PROCESSING**



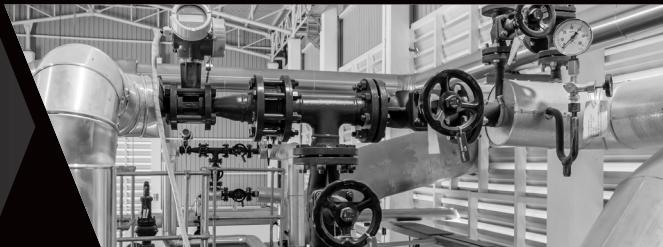
**WATER & WASTEWATER**



**POWER & ENERGY  
GENERATION**



**PULP & PAPER**



**OIL & GAS**



**THE SMARTER CHOICE.**

# FLOW CONTROL BUILDING SERVICES.

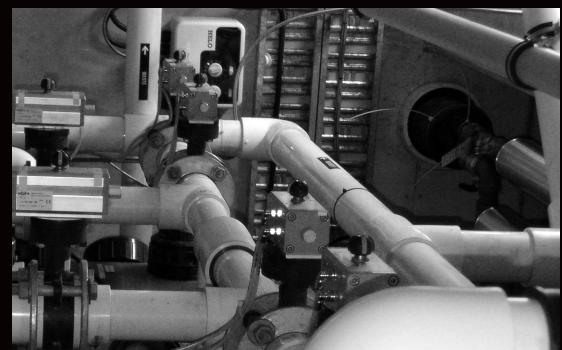
**Designers are pushing boundaries with modern multifunctional buildings with striking aesthetics which challenge traditional hydraulic methods for down pipes and stacked drainage systems serving a multitude of uses. Internal cavities for services are squeezed as developers demand more available space.**

Siphonic roof drainage systems and Sovent/Super Tube stacks allow more freedom and flexibility for hydraulic and mechanical designers to meet the needs of developers. Sound attenuated drainage and greasy waste also need consideration when designing multifunctional buildings.

Asmuss can offer both plastic and metal piping solutions for the fire protection, chilled water, compressed air and HVAC applications. Our technical sales team can assist with any enquires you may have.

High purity water systems are required for numerous applications in Health and Science facilities. These can range from boiler feeds, analyser equipment through to laboratories and the preparation of reagents.

Each application has its own set of requirements involving the chemistry of the water and the microbiological conditions that need to be upheld. Our Vulcathene PP chemical waste systems are used in manufacturing, laboratories and laundries.





HVAC



SIPHONIC, SANITARY  
& TRADE WASTE



CHEMICAL WASTE



FIRE PROTECTION



PURE WATER



**THE SMARTER CHOICE.**

# THE SMARTER CHOICE.

## IMPERIAL ABS

### THEMOPLASTIC PIPEWORK SYSTEMS

ABS (Acrylonitrile Butadiene Styrene) pipework has been formulated to optimise performance in respect of tensile strength and ductility. The benefits of ABS piping systems, can make it the first choice for some demanding fluid handling applications.

#### Benefits

**Impact Strength:** Maintains excellent impact resistance down to -40°C.

**Tough:** Ductile material with excellent resistance against fatigue, notching effects and crack growth.

**Abrasion Resistance:** Excellent wear properties for a wide range of slurries

**Light Weight:** Approximately 1/6th the weight of the equivalent steel pipes allowing for a quick and simple installation.

**Environmental Advantage:** ABS is Lead and Chlorine Free and is easily recycled.

**Exceptionally Smooth Bore:** Low friction allows high flow velocities and inhibits the formation of scale.

**Weather Resistance:** Does not corrode in weather and is resistant to sunlight so does not always require painting or wrapping.

#### Applications

**Mechanical Services:** Condenser Lines, Chilled Water Lines, Cooling Tower Pipework, Potable Water, Sewer Vent and Waste, Swimming Pools, Water Features.

Mining and Mineral Processing: Slurry Lines, Borefields, Electrolyte, Process Water, Chemical Handling.

**Water and Wastewater Infrastructure:** Water and Wastewater Treatment, Process Lines, Grit lines, Aeration Tanks, Borefields and Irrigation Schemes, Trunk Mains, Treated Effluent Re-Use, Potable Water Distribution, Rising Mains, Sewerage Treatment

**Industrial and Power Generation:** Process Water, Cooling Water, Demineralised Water, Ash Slurry Disposal.

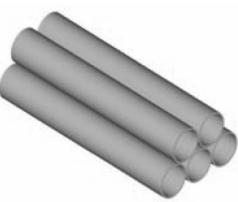
**Infrastructure:** Potable Water Distribution, Property Services, Buried Fire mains, Rising Mains.

*Please refer to technical notes for insulation materials, the use of thread seal compounds and other installation requirements.*

#### The ABS Pipe System

Asmuss offer ABS pipe in 6, 9, 12 and 15 bar pressure rating, although offerings are limited in some sizes. Fittings are designed to be used with all classes and pressures of pipe and are joined using a solvent cement technique. Threaded, flanged and shouldered end connections are also available when joining to different pipe materials, pumps or valves.

For installation or technical queries on ABS please contact our sales team.

ABS PIPE					
	Code	NB (mm)		Code	NB (mm)
<b>Class C, PN9 Pipe</b>	PABSC/025	25	<b>PN10 Pipe</b>	PABS10/065	65
	PABSC/032	32			
6m lengths	PABSC/040	40	5m lengths		
	PABSC/050	50			
	PABSC/080	80			
	PABSC/100	100			
	PABSC/150	150			
	PABSC/200	200			
	PABSC/225	225			
	PABSC/300	300			
	PABSC/350	350			
	PABSC/375	375			
<b>Class D, PN12 Pipe</b>	PABSD/050	50	<b>Class E, PN15 Pipe</b>	PABSE/015	15
	PABSD/065	65		PABSE/020	20
6m lengths	PABSD/080	80		PABSE/025	25
	PABSD/100	100		PABSE/032	32
	PABSD/150	150		PABSE/040	40
				PABSE/050	50
				PABSE/065	65
				PABSE/080	80
				PABSE/100	100
				PABSE/125	125
				PABSE/150	150
				PABSE/200	200
				PABSE/225	225
				PABSE/300	300

*Note: PN Ratings for fittings vary, however the majority of fittings larger than 150mm are rated from PN12-PN9. Please contact our sales team if you need clarification.*

# IMPERIAL ABS

## THEMOPLASTIC PIPEWORK SYSTEMS

### ABS PRESSURE PIPE FITTINGS

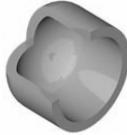
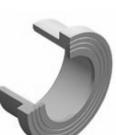
	FABS Code	NB (mm)			FABS Code	NB (mm)
<b>Tee</b> 	TEE/015	15		<b>Bend 90°, Socket End</b> 	BE90M/015	15
	TEE/020	20			BE90M/020	20
	TEE/025	25			BE90M/025	25
	TEE/032	32			BE90M/032	32
	TEE/040	40			BE90M/040	40
	TEE/050	50			BE90M/050	50
	TEE/065	65			BE90M/065	65
	TEE/080	80			BE90M/080	80
	TEE/100	100			BE90M/100	100
	TEE/125	125				
	TEE/150	150				
	TEE/200	200				
	TEE/225	225				
	TEE/250	250				
	TEE/300	300				
	TEE/315	315				
	TEE/350	350				
	TEE/375	375				
<b>Elbow 90°</b> 	EL90/015	15		<b>Reducing Socket</b> 	RSO/020x015	20x15
	EL90/020	20			RSO/025x020	25x20
	EL90/025	25			RSO/032x025	32x25
	EL90/032	32			RSO/040x025	40x25
	EL90/040	40			RSO/050x040	50x40
	EL90/050	50			RSO/080x050	80x50
	EL90/065	65			RSO/100x080	100x80
	EL90/080	80			RSO/150x100	150x100
	EL90/100	100			RSO/200x150	200x150
	EL90/125	125				
	EL90/150	150				
	EL90/200	200				
	EL90/225	225				
	EL90/300	300				
	EL90/350	350				
	EL90/375	375				
<b>Elbow 45°</b> 	EL45/015	15		<b>Reducing Bush Plain</b> 	RBP/020x015	20x15
	EL45/020	20			RBP/025x015	25x15
	EL45/025	25			RBP/025x020	25x20
	EL45/032	32			RBP/032x015	32x15
	EL45/040	40			RBP/032x020	32x20
	EL45/050	50			RBP/032x025	32x25
	EL45/065	65			RBP/040x015	40x15
	EL45/080	80			RBP/040x020	40x20
	EL45/100	100			RBP/040x025	40x25
	EL45/125	125			RBP/040x032	40x32
	EL45/150	150			RBP/050x025	50x25
	EL45/200	200			RBP/050x032	50x32
	EL45/225	225			RBP/050x040	50x40
	EL45/300	300			RBP/065x050	65x50
	EL45/350	350			RBP/080x040	80x40
	EL45/375	375			RBP/080x050	80x50
<b>Elbow 90° Plain/Threaded</b> 	EL90PT/015	15x½"			RBP/080x065	80x65
	EL90PT/020	20x¾"			RBP/100x050	100x50
	EL90PT/025	25x1"			RBP/100x080	100x80

# THE SMARTER CHOICE.

## IMPERIAL ABS

### THEMOPLASTIC PIPEWORK SYSTEMS

#### ABS PRESSURE PIPE FITTINGS

	FABS Code	NB (mm)		FABS Code	NB (mm)
<b>Socket Plain</b> 	SOP/015 SOP/020 SOP/025 SOP/032 SOP/040 SOP/050 SOP/065 SOP/080 SOP/100 SOP/125 SOP/150 SOP/200 SOP/225 SOP/250 SOP/300 SOP/350 SOP/375	15 20 25 32 40 50 65 80 100 125 150 200 225 250 300 350 375	<b>Cap, Plain</b> 	CAPPL/015 CAPPL/020 CAPPL/025 CAPPL/032 CAPPL/040 CAPPL/050 CAPPL/065 CAPPL/080 CAPPL/100 CAPPL/150	15 20 25 32 40 50 65 80 100 150
<b>Wye Piece Female</b> 	WYE/015 WYE/020 WYE/025 WYE/032 WYE/040 WYE/050 WYE/065	15 20 25 32 40 50 65	<b>Plug</b> 	PLUG/015 PLUG/020 PLUG/025 PLUG/032 PLUG/040 PLUG/050	15 20 25 32 40 50
<b>Male Composite Union</b> 	MCU/015 MCU/020 MCU/025 MCU/032 MCU/040 MCU/050	15x½" 20x¾" 25x1" 32x1¼" 40x1½" 50x2"	<b>Socket Union</b> 	SOUN/015 SOUN/020 SOUN/025 SOUN/032 SOUN/040 SOUN/050 SOUN/065 SOUN/080 SOUN/100	15 20 25 32 40 50 65 80 100
<b>Female Composite Union</b> 	FCU/015 FCU/020 FCU/025 FCU/032 FCU/040 FCU/050	15x½" 20x¾" 25x1" 32x1¼" 40x1½" 50x2"	<b>Hexagon Nipple, Plain/Threaded</b> 	NIPT/015 NIPT/020 NIPT/025 NIPT/032 NIPT/040 NIPT/050	15x½" 20x¾" 25x1" 32x1¼" 40x1½" 50x2"
<b>Female Adaptor</b> 	FADPT/015 FADPT/020 FADPT/025 FADPT/032 FADPT/040 FADPT/050	15x½" 20x¾" 25x1" 32x1¼" 40x1½" 50x2"	<b>Hexagon Nipple, Threaded</b> 	NITHD/015 NITHD/020 NITHD/025 NITHD/032 NITHD/040 NITHD/050	½"x½" ¾"x¾" 1"x1" 1¼"x1¼" 1½"x1½" 2"x2"
<b>Male Adaptor</b> 	MADPT/015 MADPT/020 MADPT/025 MADPT/032 MADPT/040 MADPT/050 MADPT/080 MADPT/100	15x½" 20x¾" 25x1" 32x1¼" 40x1½" 50x2" 80x3" 100x4"	<b>Barrel Nipple</b> 	BNIPT/080 BNIPT/100	80 100
			<b>Hose Tails &amp; Barbs</b> 	HOADPT/015 HOADPT/020 HOADPT/025	15 20 25
			<b>Stub Flange</b> 	FLSTUB/050 FLSTUB/065 FLSTUB/080 FLSTUB/100 FLSTUB/125 FLSTUB/150 FLSTUB/200 FLSTUB/225 FLSTUB/300 FLSTUB/350 FLSTUB/375	50 65 80 100 125 150 200 225 300 350 375

# IMPERIAL ABS

## THEMOPLASTIC PIPEWORK SYSTEMS

### ABS PRESSURE PIPE FITTINGS

	FABS Code	NB (mm)			FABS Code	NB (mm)
<b>Full Face Flange Undrilled</b>	FLFFUD/015	15		<b>Full Face Flange Drilled ANSI 150</b>	FLFF150/015	15
	FLFFUD/020	20			FLFF150/020	20
	FLFFUD/025	25			FLFF150/025	25
	FLFFUD/032	32			FLFF150/032	32
	FLFFUD/040	40			FLFF150/040	40
	FLFFUD/050	50			FLFF150/050	50
	FLFFUD/080	80			FLFF150/080	80
	FLFFUD/100	100			FLFF150/100	100
	FLFFUD/150	150			FLFF150/150	150
<b>Full Face Flange Drilled Table D/E</b>	FLFFTE/015	15				
	FLFFTE/020	20				
	FLFFTE/025	25				
	FLFFTE/032	32				
	FLFFTE/040	40				
	FLFFTE/050	50				
	FLFFTE/080	80				
	FLFFTE/100	100				
	FLFFTE/150	150				



Full Face Flange  
Undrilled



Full Face Flange  
Drilled Table D/E

### ABS PRESSURE BACKING RINGS

	FABS Code	NB (mm)
<b>Galv Backing Ring, Table E</b>	BRGTE/050	50
	BRGTE/065	65
	BRGTE/080	80
	BRGTE/100	100
	BRGTE/125	125
	BRGTE/150	150
	BRGTE/200	200
	BRGTE/300	300
<b>Galv Backing Ring, ANSI 150</b>	BRG150/050	50
	BRG150/065	65
	BRG150/080	80
	BRG150/100	100
	BRG150/150	150
	BRG150/200	200
<b>Galv Backing Ring, BS4504 PN16</b>	BRG4504/050	50
	BRG4504/065	65
	BRG4504/080	80
	BRG4504/100	100
	BRG4504/150	150
	BRG4504/200	200
<b>SS 316 Backing Ring, Table E</b>	BRSSTE/050	50
	BRSSTE/080	80
	BRSSTE/100	100
	BRSSTE/150	150



Galv Backing Ring,  
Table E



Galv Backing Ring,  
ANSI 150



Galv Backing Ring,  
BS4504 PN16



SS 316 Backing Ring,  
Table E

### ABS ACCESSORIES

	FABS Code	Size
<b>ABS Solvent Cement</b>	CEMENT250	250ml
	CEMENT500	500ml
	CEMENT1LT	1 Litre
	CEMENT4LT	4 Litre
<b>Pipe Clips</b>	167061086	15
	167061087	20
	167061088	25
	167061089	32
	167061090	40
	167061091	50
	167061012	65
	167061013	80
	167061114	100
<b>MEK Primer</b>	MEK500	500ml
	MEK1LT	1 Litre
	MEK5LT	5 Litre
<b>Double Bolt Clips</b>	FPCI/080	80
	FPCI/100	100
	FPCM140	125
	FPCI/150	150
	FPCM225	200
	FPCM250	225
	FPCM315	300
	FPCM355	350
	FPCM400	375
<b>Saddle Clips</b>	PCSA/015	15
	PCSA/020	20
	PCSA/025	25
	PCSA/032	32
	PCSA/040	40
	PCSA/050	50
	PCSA/080	80
	PCSA/100	100



# THE SMARTER CHOICE.

## +GF+ ABS METRIC

### PIPING SYSTEMS

ABS (Acrylonitrile Butadiene Styrene) is a homogeneous material with high impact strength and ductility, good chemical resistance, good resistance to environmental stress cracking and excellent resistance to crack propagation. Other advantages are its suitability for use at low temperatures [-40°C], it is recyclable and is non-toxic, and can be regarded as biologically inert.

#### Advantages

- Economical material costs
- Quick and easy to joint requiring practically no investment and minimal training
- Smooth inner bore reduces pressure losses to a minimum and can reduce the size of piping required in comparison with other less efficient systems [e.g., metal generally]
- Its light weight reduces transport costs and enables quick, easy handling on site
- A low thermal conductivity, approx. 2000 times lower than copper, optimizes your piping system reducing to a minimum energy loss and reducing or often eliminating the need for insulation
- No corrosion
- Reduced maintenance costs



Germanischer Lloyd

#### Standards & Approvals

George Fischer metric fittings in ABS are generally in accordance with DIN 8063 and the pipe with DIN 16890/16891.

Georg Fischer ABS has a whole range of marine approvals from all the major classification societies, namely Germanischer Lloyd, Lloyds Register, Det Norske Veritas, American Bureau of Shipping, Bureau Veritas, Rina etc.

#### Temperature and Pressure

The permissible working temperature range for an ABS pipe system is from -40°C to +60°C.

The pressure ratings for ABS pipe, fittings and valves are as follows:

#### Metric

Pipe 10 bar [PN 10 or 145 lbf/in<sup>2</sup>]

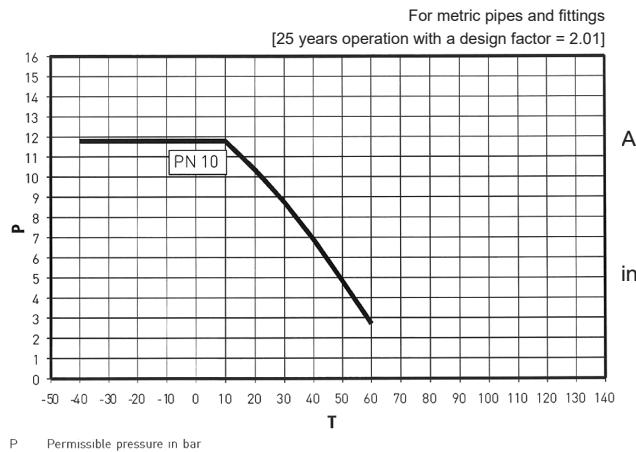
Fittings 16-225 mm 10 bar [PN 10 or 145 lbf/in<sup>2</sup>]

Valves 10 bar [PN 10 or 145 lbf/in<sup>2</sup>]

Pressure ratings for thermoplastic pipework are always quoted at 20°C. It can be used at higher temperatures, but it is a fundamental principle in thermoplastic pipework that if the temperature is increased then the pressure rating must be reduced. Reduction factors can apply when using media other than water. Please consult our technical advisory service.

The table to the left shows, for an ABS pipe system, the maximum permissible pressures at various temperatures up to the maximum of 60°C. The table is based on an ambient temperature of 20°C with water as the medium. design factor of 2.0 is incorporated into all calculations with a life span of 25 years.

According to the 10° line in the hydrostatic strength curve for ABS a permissible pressure of 12 bar the temperature range of -40° to +10°C for the PN 10 system can be applied.



#### Related Documents

- Pipe Clips, Backing Rings and Dressing Sets

ABS METRIC PIPE					
	Code	Size OD (mm)	PN (bar)	Min Wall Thickness (mm)	Nom Weight (Kg/m)
Pipe	169017080	16	16	1.8	0.095
	169017081	20	16	2.3	0.152
	169017082	25	16	2.3	0.193
	169017083	32	10	1.9	0.212
	169017084	40	10	2.4	0.334
	169017085	50	10	3	0.523
	169017086	63	10	3.8	0.834
	169017087	75	10	4.5	1.176
	169017088	90	10	5.4	1.693
5 Metre Lengths	169017089	110	10	6.6	2.529

# +GF+ ABS METRIC

## PIPING SYSTEMS

### ABS METRIC FITTINGS

	Code	OD (mm)	PN (bar)			Code	OD (mm)	PN (bar)
<b>Bend 90°</b>	729000106	20	16		<b>Tee 90°</b>	729200105	16	16
	729000107	25	16			729200106	20	16
	729000108	32	10			729200107	25	16
	729000109	40	10			729200108	32	10
	729000110	50	10			729200109	40	10
	729000111	63	10			729200110	50	10
	729000112	75	10			729200111	63	10
	729000113	90	10			729200112	75	10
	729000114	110	10			729200113	90	10
<b>Elbow 90°</b>	729100105	16	16			729200114	110	10
	729100106	20	16					
	729100107	25	16					
	729100108	32	10					
	729100109	40	10					
	729100110	50	10					
	729100111	63	10					
	729100112	75	10					
	729100113	90	10					
	729100114	110	10					
<b>Elbow 45°</b>	729150106	20	16		<b>Reducing Tee</b>	729200134	25x20	16
	729150107	25	16			729200138	32x25	10
	729150108	32	16			729200151	40x25	10
	729150109	40	10			729200147	40x32	10
	729150110	50	10			729200164	50x32	10
	729150111	63	10			729200178	63x32	10
	729150112	75	10			729200170	63x50	10
	729150113	90	10			729200182	75x40	10
	729150114	110	10			729200143	90x32	10
<b>Socket</b>	729910105	16	16			729200146	90x63	10
	729910106	20	16			729200144	110x32	10
	729910107	25	16			729200136	110x50	10
	729910108	32	10					
	729910109	40	10					
	729910110	50	10					
	729910111	63	10					
	729910112	75	10					
	729910113	90	10					
	729910114	110	10					
<b>Cap</b>	729960105	16	16		<b>Tee 45°</b>	729250106	20	10
	729960106	20	16			729250107	25	10
	729960107	25	16			729250108	32	10
	729960108	32	10			729250109	40	10
	729960109	40	10			729250110	50	10
	729960110	50	10			729250111	63	10
	729960111	63	10			729250112	75	6
	729960112	75	10			729250113	90	6
	729960113	90	10			729250114	110	6
	729960114	110	10					
<b>Adaptor Barrel Nipple</b>	729911505	3/8"	10		<b>Reducing Bush</b>	729900334	20x16	16
	729911506	1/2"	10			729900337	25x20	16
	729911507	3/4"	10			729900342	32x20	10
	729911508	1"	10			729900341	32x25	10
	729911509	1 1/4"	10			729900348	40x20	10
	729911510	1 1/2"	10			729900347	40x25	10
	729911511	2"	10			729900346	40x32	10
	729911513	3"	10			729900355	50x20	10
	729911515	4"	10			729900354	50x25	10

# THE SMARTER CHOICE.

## +GF+ ABS METRIC

### PIPING SYSTEMS

#### ABS METRIC FITTINGS

	Code	OD (mm)	PN (bar)			Code	OD (mm)	PN (bar)
<b>Adaptor Reducing Bush</b>	729910434	20x3/8"	10		<b>Flange Adaptor ABS Metric</b>	729790106	20	10
	729910437	25x1/2"	10			729790107	25	10
	729910441	32x3/4"	10			729790108	32	10
	729910446	40x1"	10			729790109	40	10
	729910452	50x1 1/4"	10			729790110	50	10
	729910458	63x1 1/2"	10			729790111	63	10
<b>Socket Union</b>	729510105	16	10		<b>Adaptor Elbow 90°</b>	729100206	20x1/2"	10
	729510106	20	10			729100207	25x3/4"	10
	729510107	25	10			729100208	32x1"	10
	729510108	32	10			729100209	40x1 1/4"	10
	729510109	40	10			729100210	50x1 1/2"	10
	729510110	50	10			729100211	63x2"	10
	729510111	63	10					
	729510112	75	10					
	729510113	90	10					
	729510114	110	10					
	729540205	16x3/8"	10					
	729540206	20x1/2"	10					
	729540207	25x3/4"	10					
	729540208	32x1"	10					
<b>Adaptor Union, Female, ABS/St.Steel</b>	729540209	40x1 1/4"	10		<b>Adaptor Socket</b>	729910206	20x1/2"	10
	729540210	50x1 1/2"	10			729910207	25x3/4"	10
	729540211	63x2"	10			729910208	32x1"	10
	729540705	16x3/8"	10			729910209	40x1 1/4"	10
	729540706	20x1/2"	10			729910210	50x1 1/2"	10
	729540707	25x3/4"	10			729910211	63x2"	10
<b>Adaptor Union, Male, ABS/St.Steel</b>	729540708	32x1"	10		<b>Female Adaptor</b>	729900406	20x1/2"	10
	729540709	40x1 1/4"	10			729900407	25x3/4"	10
	729540710	50x1 1/2"	10			729900408	32x1"	10
	729540711	63x2"	10			729900409	40x1 1/4"	10
	729960405	16	10			729900410	50x1 1/2"	10
	729960406	20	10			729900411	63x2"	10
<b>Hose Connector</b>	729960407	25	10		<b>Male Adaptor, Spigot</b>	729910505	16x3/8"	10
	729960408	32	10					

#### ABS METRIC ACCESSORIES

	Code	Size OD (mm)			Code	Size
<b>Pipe Clips</b>	167061035	16		<b>ABS Solvent Cement</b>	CEMENT250	250ml
	167061036	20			CEMENT500	500ml
	167061037	25			CEMENT1LT	1 Litre
	167061038	32			CEMENT4LT	4 Litre
	167061039	40				
	167061040	50				
	167061041	63				
	167061012	75				
	167061013	90				
	167061014	110				
<b>MEK Primer</b>				<b>MEK Primer</b>	MEK250	250ml
					MEK1LT	1 Litre
					MEK5LT	5 Litre

Refer to the Pipe Clips, Dressing Sets and Backing Rings product list for a full range of accessories

# +GF+ SCHEDULE 80 PVC

## HI-STRENGTH INDUSTRIAL PIPING SYSTEM

Asmuss' PVC Schedule 80 Piping system is truly an industrial product.

Often referred to as 'Hi Strength' PVC, its industrial grade wall thickness and excellent chemical resistance, make it ideally suited for industrial process applications where system integrity is vital. Schedule 80 is a complete system with valving and instrumentation components available.

### Chemical Resistance

PVC Schedule 80 offers excellent resistance to most acids and alkalis.

For specific recommendations please contact our sales team.

For central foaming systems please refer to the our technical paper listed below.

### Solvent Cement Jointing

The Installation of PVC Schedule 80 pipework should only be undertaken by suitably qualified and experienced persons.

Please contact our sales team for appropriate training.

Asmuss recommend the use of IPS-724 solvent cement when jointing PVC Schedule 80.

This has been specifically developed for use with PVC Schedule 80 in chemical applications.

### Standards

PVC Schedule 80 was initially developed for the American market and as such is made to the relevant ASTM Standards.

Flanges are drilled to the ANSI 150 pattern and threaded fittings are NPT.

Please note that this is different to the Table D/E flanges and BSP threads common to New Zealand.

A limited range of threaded BSP fittings are included in the range to assist transitions in New Zealand.

These fittings are not of Schedule 80, but are of industrial grade PVC.

### Related Documents:

- Asmuss Technical Paper For Central Foaming Systems
- Asmuss Installation Guide

PVC HI-STRENGTH SCHEDULE 80 PIPE - PLAIN ENDS							
	Code	Size (NB) mm	Size (NB) inch	OD mm	Avg ID mm	Min Wall Thickness (mm)	Nom Weight (Kg/m)
	PPVC80/008	8	1/4	13.7	7.2	3	0.15
	PPVC80/010	10	5/16	17.1	10.2	3.2	0.2
	PPVC80/015	15	1/2	21.3	13.4	3.7	0.31
	PPVC80/020	20	5/8	26.7	18.3	3.9	0.41
	PPVC80/025	25	1	33.4	23.7	4.5	0.61
	PPVC80/032	32	1 1/4	42.2	31.9	4.9	0.84
	PPVC80/040	40	1 1/2	48.3	37.5	5.1	1.02
	PPVC80/050	50	2	60.3	48.6	5.5	1.46
	PPVC80/065	65	2 1/2	73	58.2	7	2.15
	PPVC80/080	80	3	88.9	72.7	7.6	2.88
	PPVC80/100	100	4	114.3	96.2	8.6	4.21
	PPVC80/125	125	5	141.3	121.11	9.5	6.16
	PPVC80/150	150	6	168.3	144.8	11	8.04
	PPVC80/200	200	8	219.1	192.2	12.7	12.68
	PPVC80/250	250	10	273.05	241.12	15.06	18.80
	PPVC80/300	300	12	323.85	286.87	17.44	25.87

15 - 200mm pipe is also available in 1 metre sections - POA

Please refer our Pipe Clips price list for imperial pipe clips.



# THE SMARTER CHOICE.

## +GF+ SCHEDULE 80 PVC

### HI-STRENGTH INDUSTRIAL PIPING SYSTEM

#### PVC SCH80 90° ELBOWS

	Code	Size (NB)
<b>Elbow 90° (806)</b>	FPVCEL90/008	8mm $\frac{1}{4}$ "
	FPVCEL90/010	10mm $\frac{3}{8}$ "
	FPVCEL90/015	15mm $\frac{1}{2}$ "
	FPVCEL90/020	20mm $\frac{3}{4}$ "
	FPVCEL90/025	25mm 1"
	FPVCEL90/032	32mm $1\frac{1}{4}$ "
	FPVCEL90/040	40mm $1\frac{1}{2}$ "
	FPVCEL90/050	50mm 2"
	FPVCEL90/065	65mm $2\frac{1}{2}$ "
	FPVCEL90/080	80mm 3"
	FPVCEL90/100	100mm 4"
	FPVCEL90/150	150mm 6"
	FPVCEL90/200	200mm 8"
	FPVCEL90/250	250mm 10"
	FPVCEL90/300	300mm 12"



#### PVC SCH80 45° ELBOWS

	Code	Size (NB)
<b>Elbow 45° (817)</b>	FPVCEL45/008	8mm $\frac{1}{4}$ "
	FPVCEL45/010	10mm $\frac{3}{8}$ "
	FPVCEL45/015	15mm $\frac{1}{2}$ "
	FPVCEL45/020	20mm $\frac{3}{4}$ "
	FPVCEL45/025	25mm 1"
	FPVCEL45/032	32mm $1\frac{1}{4}$ "
	FPVCEL45/040	40mm $1\frac{1}{2}$ "
	FPVCEL45/050	50mm 2"
	FPVCEL45/065	65mm $2\frac{1}{2}$ "
	FPVCEL45/080	80mm 3"
	FPVCEL45/100	100mm 4"
	FPVCEL45/150	150mm 6"
	FPVCEL45/200	200mm 8"
	FPVCEL45/250	250mm 10"
	FPVCEL45/300	300mm 12"



#### PVC SCH80 90° BENDS

	Code	Size (NB)
<b>Sweep Bend 90° Plain</b>	FPVCBE90/015	15mm $\frac{1}{2}$ "
	FPVCBE90/020	20mm $\frac{3}{4}$ "
	FPVCBE90/025	25mm 1"
	FPVCBE90/032	32mm $1\frac{1}{4}$ "
	FPVCBE90/040	40mm $1\frac{1}{2}$ "
	FPVCBE90/050	50mm 2"
	FPVCBE90/065	65mm $2\frac{1}{2}$ "
	FPVCBE90/080	80mm 3"
	FPVCBE90/100	100mm 4"
	FPVCBE90/150	150mm 6"



#### PVC 90° SWEPT BENDS

	Code	Size (NB)
<b>Sweep Bend 90° Moulded Plain</b>	FPVCBE90M/015	15mm $\frac{1}{2}$ "
	FPVCBE90M/020	20mm $\frac{3}{4}$ "
	FPVCBE90M/025	25mm 1"
	FPVCBE90M/032	32mm $1\frac{1}{4}$ "
	FPVCBE90M/040	40mm $1\frac{1}{2}$ "
	FPVCBE90M/050	50mm 2"



PN15 BS standard PVC

#### PVC SOCKET UNIONS

	Code	Size (NB)
<b>Socket Union EPDM O-Ring (897)</b>	FPVCSOUN/015	15mm $\frac{1}{2}$ "
	FPVCSOUN/020	20mm $\frac{3}{4}$ "
	FPVCSOUN/025	25mm 1"
	FPVCSOUN/032	32mm $1\frac{1}{4}$ "
	FPVCSOUN/040	40mm $1\frac{1}{2}$ "
	FPVCSOUN/050	50mm 2"
	FPVCSOUN/080	80mm 3"
	FPVCSOUN/100	100mm 4"
<b>Socket Union FPM O-Ring (897)</b>	FPVCSOUNFPM/015	15mm $\frac{1}{2}$ "
	FPVCSOUNFPM/020	20mm $\frac{3}{4}$ "
	FPVCSOUNFPM/025	25mm 1"
	FPVCSOUNFPM/032	32mm $1\frac{1}{4}$ "
	FPVCSOUNFPM/040	40mm $1\frac{1}{2}$ "
	FPVCSOUNFPM/050	50mm 2"



# +GF+ SCHEDULE 80 PVC

## HI-STRENGTH INDUSTRIAL PIPING SYSTEM

### PVC SCH80 TEES

	Code	Size (NB)	
<b>Tee Plain (801)</b>	FPVCTEE/015	15mm	1/2"
	FPVCTEE/020	20mm	3/4"
	FPVCTEE/025	25mm	1"
	FPVCTEE/032	32mm	1 1/4"
	FPVCTEE/040	40mm	1 1/2"
	FPVCTEE/050	50mm	2"
	FPVCTEE/065	65mm	2 1/2"
	FPVCTEE/080	80mm	3"
	FPVCTEE/100	100mm	4"
	FPVCTEE/150	150mm	6"
	FPVCTEE/200	200mm	8"
	FPVCTEE/250	250mm	10"
	FPVCTEE/300	300mm	12"

### PVC SCH80 REDUCING TEE

	Code	Size (NB)	
<b>Reducing Tee</b>	FPVCRTEE/050X015	50x15mm	2 x 1/2"
	FPVCRTEE/050X020	50x20mm	2 x 3/4"
	FPVCRTEE/050X025	50x25mm	2 x 1"
	FPVCRTEE/050X040	50x40mm	2 x 1 1/2"
	FPVCRTEE/080X025	80x25mm	3 x 1"
	FPVCRTEE/080X040	80x40mm	3 x 1 1/2"
	FPVCRTEE/080X050	80x50mm	3 x 2"
	FPVCRTEE/100X050	100x50mm	4 x 2"

### PVC SCH80 FEMALE WYE

	Code	Size (NB)	
<b>Wye Female</b>	FPVCFMWYE/015	15mm	1/2"
	FPVCFMWYE/020	20mm	3/4"
	FPVCFMWYE/025	25mm	1"
	FPVCFMWYE/040	40mm	1 1/2"
	FPVCFMWYE/050	50mm	2"
	FPVCFMWYE/080	80mm	3"
	FPVCFMWYE/100	100mm	4"
	FPVCFMWYE/150	150mm	6"

### PVC SCH80 CROSSES

	Code	Size (NB)	
<b>Cross</b>	FPVCCROSS/015	15mm	1/2"
	FPVCCROSS/020	20mm	3/4"
	FPVCCROSS/025	25mm	1"
	FPVCCROSS/032	32mm	1 1/4"
	FPVCCROSS/040	40mm	1 1/2"
	FPVCCROSS/050	50mm	2"
	FPVCCROSS/080	80mm	3"
	FPVCCROSS/100	100mm	4"

### PVC SCH80 SOCKETS

	Code	Size (NB)	
<b>Socket Plain/ Threaded (835)</b>	FPVCSOPT/015	15mm	1/2"
	FPVCSOPT/020	20mm	3/4"
	FPVCSOPT/025	25mm	1"
	FPVCSOPT/032	32mm	1 1/4"
	FPVCSOPT/040	40mm	1 1/2"
	FPVCSOPT/050	50mm	2"
	FPVCSOPT/065	65mm	2 1/2"
	FPVCSOPT/080	80mm	3"
	FPVCSOPT/100	100mm	4"

NPT THREAD



### Socket Plain (829)



FPVCSOP/008	8mm	1/4"
FPVCSOP/010	10mm	5/8"
FPVCSOP/015	15mm	1/2"
FPVCSOP/020	20mm	3/4"
FPVCSOP/025	25mm	1"
FPVCSOP/032	32mm	1 1/4"
FPVCSOP/040	40mm	1 1/2"
FPVCSOP/050	50mm	2"
FPVCSOP/065	65mm	2 1/2"
FPVCSOP/080	80mm	3"
FPVCSOP/100	100mm	4"
FPVCSOP/150	150mm	6"
FPVCSOP/200	200mm	8"
FPVCSOP/250	250mm	10"
FPVCSOP/300	300mm	12"

### PVC BSP SOCKETS

	Code	Size (NB)	
<b>Socket Plain/ Threaded</b>	FPVCSOPTBSP/010	10mm	5/8"
	FPVCSOPTBSP/015	15mm	1/2"
	FPVCSOPTBSP/020	20mm	3/4"
	FPVCSOPTBSP/025	25mm	1"
	FPVCSOPTBSP/032	32mm	1 1/4"
	FPVCSOPTBSP/040	40mm	1 1/2"
	FPVCSOPTBSP/050	50mm	2"
	FPVCSOPTBSP/080	80mm	3"



BSP THREAD

SS REINFORCING  
BAND 10-50MM

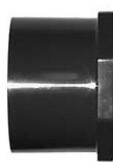
# THE SMARTER CHOICE.

## +GF+ SCHEDULE 80 PVC

### HI-STRENGTH INDUSTRIAL PIPING SYSTEM

#### PVC SCH80 REDUCING BUSH

	Code	Size (NB)
<b>Reducing Bush Spigot/ Socket (837)</b>	FPVCPB/010X008	10x8mm $\frac{3}{8} \times \frac{1}{4}$ "
	FPVCPB/015X008	15x8mm $\frac{1}{2} \times \frac{1}{4}$ "
	FPVCPB/015X010	15x10mm $\frac{1}{2} \times \frac{3}{8}$ "
	FPVCPB/020X015	20x15mm $\frac{3}{4} \times \frac{1}{2}$ "
	FPVCPB/025X015	25x15mm $1 \times \frac{1}{2}$ "
	FPVCPB/025X020	25x20mm $1 \times \frac{3}{4}$ "
	FPVCPB/032X015	32x15mm $1\frac{1}{4} \times \frac{1}{2}$ "
	FPVCPB/032X020	32x20mm $1\frac{1}{4} \times \frac{3}{4}$ "
	FPVCPB/032X025	32x25mm $1\frac{1}{4} \times 1$ "
	FPVCPB/040X015	40x15mm $1\frac{1}{2} \times \frac{1}{2}$ "
	FPVCPB/040X020	40x20mm $1\frac{1}{2} \times \frac{3}{4}$ "
	FPVCPB/040X025	40x25mm $1\frac{1}{2} \times 1$ "
	FPVCPB/040X032	40x32mm $1\frac{1}{2} \times 1\frac{1}{4}$ "
	FPVCPB/050X015	50x15mm $2 \times \frac{1}{2}$ "
	FPVCPB/050X020	50x20mm $2 \times \frac{3}{4}$ "
	FPVCPB/050X025	50x25mm $2 \times 1$ "
	FPVCPB/050X032	50x32mm $2 \times 1\frac{1}{4}$ "
	FPVCPB/050X040	50x40mm $2 \times 1\frac{1}{2}$ "
	FPVCPB/065X040	65x40mm $2\frac{1}{2} \times 1\frac{1}{2}$ "
	FPVCPB/065X050	65x50mm $2\frac{1}{2} \times 2$ "
	FPVCPB/080X050	80x50mm $3 \times 2$ "
	FPVCPB/080X065	80x65mm $3 \times 2\frac{1}{2}$ "
	FPVCPB/100X050	100x50mm $4 \times 2$ "
	FPVCPB/100X080	100x80mm $4 \times 3$ "
	FPVCPB/150X100	150x100mm $6 \times 4$ "
	FPVCPB/200X150	200x150mm $8 \times 6$ "



#### PVC SCH80 REDUCING BUSH

	Code	Size (NB)
<b>Reducing Bush Male/Female Threaded (839)</b>	FPVCBN/010X008	10x8mm $\frac{3}{8} \times \frac{1}{4}$ "
	FPVCBN/015X008	15x8mm $\frac{1}{2} \times \frac{1}{4}$ "
	FPVCBN/015X010	15x10mm $\frac{1}{2} \times \frac{3}{8}$ "
	FPVCBN/020X015	20x15mm $\frac{3}{4} \times \frac{1}{2}$ "
	FPVCBN/025X015	25x15mm $1 \times \frac{1}{2}$ "
	FPVCBN/025X020	25x20mm $1 \times \frac{3}{4}$ "
	FPVCBN/032X015	32x15mm $1\frac{1}{4} \times \frac{1}{2}$ "
	FPVCBN/032X020	32x20mm $1\frac{1}{4} \times \frac{3}{4}$ "
	FPVCBN/032X025	32x25mm $1\frac{1}{4} \times 1$ "
	FPVCBN/040X020	40x20mm $1\frac{1}{2} \times \frac{3}{4}$ "
	FPVCBN/040X025	40x25mm $1\frac{1}{2} \times 1$ "
	FPVCBN/040X032	40x32mm $1\frac{1}{2} \times 1\frac{1}{4}$ "
	FPVCBN/050X015	50x15mm $2 \times \frac{1}{2}$ "
	FPVCBN/050X020	50x20mm $2 \times \frac{3}{4}$ "
	FPVCBN/050X025	50x25mm $2 \times 1$ "
	FPVCBN/050X032	50x32mm $2 \times 1\frac{1}{4}$ "
	FPVCBN/050X040	50x40mm $2 \times 1\frac{1}{2}$ "
	FPVCBN/080X040	80x40mm $3 \times 1\frac{1}{2}$ "
	FPVCBN/080X050	80x50mm $3 \times 2$ "
	FPVCBN/080X065	80x65mm $3 \times 2\frac{1}{2}$ "
	FPVCBN/100X050	100x50mm $4 \times 2$ "
	FPVCBN/100X080	100x80mm $4 \times 3$ "

#### NPT THREAD

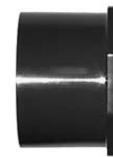
#### NPT THREAD

#### PVC SCH80 REDUCING SOCKET

	Code	Size (NB)
<b>Reducing Socket (829)</b>	FPVCRS/020X015	20x15mm $\frac{3}{4} \times \frac{1}{2}$ "
	FPVCRS/025X015	25x15mm $1 \times \frac{1}{2}$ "
	FPVCRS/025X020	25x20mm $1 \times \frac{3}{4}$ "
	FPVCRS/032X025	32x25mm $1\frac{1}{4} \times 1$ "
	FPVCRS/040X015	40x15mm $1\frac{1}{2} \times \frac{1}{2}$ "
	FPVCRS/040X025	40x25mm $1\frac{1}{2} \times 1$ "
	FPVCRS/040X032	40x32mm $1\frac{1}{2} \times 1\frac{1}{4}$ "
	FPVCRS/050X025	50x25mm $2 \times 1$ "
	FPVCRS/050X040	50x40mm $2 \times 1\frac{1}{2}$ "
	FPVCRS/080X050	80x50mm $3 \times 2$ "
	FPVCRS/100X050	100x50mm $4 \times 2$ "
	FPVCRS/100X080	100x80mm $4 \times 3$ "
	FPVCRS/150X100	150x100mm $6 \times 4$ "
	FPVCRS/200X150	200x150mm $8 \times 6$ "



#### Reducing Bush Spigot/ Threaded (838)



#### NPT THREAD

# +GF+ SCHEDULE 80 PVC

## HI-STRENGTH INDUSTRIAL PIPING SYSTEM

PVC SCH80 NIPPLES		
	Code	Size (NB)
<b>Nipple Plain/Threaded</b>	FPVCNIPT/008	8mm $\frac{1}{4}$ "
	FPVCNIPT/010	10mm $\frac{3}{8}$ "
	FPVCNIPT/015	15mm $\frac{1}{2}$ "
	FPVCNIPT/020	20mm $\frac{3}{4}$ "
	FPVCNIPT/025	25mm 1"
	FPVCNIPT/032	32mm $1\frac{1}{4}$ "
	FPVCNIPT/040	40mm $1\frac{1}{2}$ "
	FPVCNIPT/050	50mm 2"
	FPVCNIPT/080	80mm 3"
	FPVCNIPT/100	100mm 4"
BSP THREAD		

PVC NIPPLES		
	Code	Size (NB)
<b>Hex Nipple</b>	FPVCNITHD/008	8mm $\frac{1}{4}$ "
	FPVCNITHD/010	10mm $\frac{3}{8}$ "
	FPVCNITHD/015	15mm $\frac{1}{2}$ "
	FPVCNITHD/020	20mm $\frac{3}{4}$ "
	FPVCNITHD/025	25mm 1"
	FPVCNITHD/032	32mm $1\frac{1}{4}$ "
	FPVCNITHD/040	40mm $1\frac{1}{2}$ "
	FPVCNITHD/050	50mm 2"
BSP THREAD		

PVC SCH80 ADAPTOR		
	Code	Size (NB)
<b>Male Adapter (836)</b>	FPVCMADPT/008	8mm $\frac{1}{4}$ "
	FPVCMADPT/015	15mm $\frac{1}{2}$ "
	FPVCMADPT/020	20mm $\frac{3}{4}$ "
	FPVCMADPT/025	25mm 1"
	FPVCMADPT/032	32mm $1\frac{1}{4}$ "
	FPVCMADPT/040	40mm $1\frac{1}{2}$ "
	FPVCMADPT/050	50mm 2"
	FPVCMADPT/065	65mm $2\frac{1}{2}$ "
	FPVCMADPT/080	80mm 3"
	FPVCMADPT/100	100mm 4"
NPT THREAD		
<b>Female Adapter Spigot/Threaded (878)</b>	FPVCFMADPT/015	15mm $\frac{1}{2}$ "
	FPVCFMADPT/020	20mm $\frac{3}{4}$ "
	FPVCFMADPT/025	25mm 1"
	FPVCFMADPT/032	32mm $1\frac{1}{4}$ "
	FPVCFMADPT/040	40mm $1\frac{1}{2}$ "
	FPVCFMADPT/050	50mm 2"
	FPVCFMADPT/080	80mm 3"
	FPVCFMADPT/100	100mm 4"
NPT THREAD		

PVC SCH80 END CAPS		
	Code	Size (NB)
<b>Cap (847)</b>	FPVCCAP/008	8mm $\frac{1}{4}$ "
	FPVCCAP/010	10mm $\frac{3}{8}$ "
	FPVCCAP/015	15mm $\frac{1}{2}$ "
	FPVCCAP/020	20mm $\frac{3}{4}$ "
	FPVCCAP/025	25mm 1"
	FPVCCAP/032	32mm $1\frac{1}{4}$ "
	FPVCCAP/040	40mm $1\frac{1}{2}$ "
	FPVCCAP/050	50mm 2"
	FPVCCAP/065	65mm $2\frac{1}{2}$ "
	FPVCCAP/080	80mm 3"
	FPVCCAP/100	100mm 4"
	FPVCCAP/150	150mm 6"
	FPVCCAP/200	200mm 8"
	FPVCCAP/250	250mm 10"
	FPVCCAP/300	300mm 12"

PVC PLUGS		
	Code	Size (NB)
<b>Plug, NPT Thread (850)</b>	FPVCPLUGNPT/008	8mm $\frac{1}{4}$ "
	FPVCPLUGNPT/010	10mm $\frac{3}{8}$ "
	FPVCPLUGNPT/015	15mm $\frac{1}{2}$ "
	FPVCPLUGNPT/020	20mm $\frac{3}{4}$ "
	FPVCPLUGNPT/025	25mm 1"
	FPVCPLUGNPT/032	32mm $1\frac{1}{4}$ "
	FPVCPLUGNPT/040	40mm $1\frac{1}{2}$ "
	FPVCPLUGNPT/050	50mm 2"
	FPVCPLUGNPT/080	80mm 3"
	FPVCPLUGNPT/100	100mm 4"
<b>Plug, BSP Thread (850)</b>	FPVCPLUGBSP/010	10mm $\frac{3}{8}$ "
	FPVCPLUGBSP/015	15mm $\frac{1}{2}$ "
	FPVCPLUGBSP/020	20mm $\frac{3}{4}$ "
	FPVCPLUGBSP/025	25mm 1"
	FPVCPLUGBSP/032	32mm $1\frac{1}{4}$ "
	FPVCPLUGBSP/040	40mm $1\frac{1}{2}$ "
	FPVCPLUGBSP/050	50mm 2"
<b>Plug, Spigot (850)</b>	FOVCPLUGSP/010	10mm $\frac{3}{8}$ "
	FOVCPLUGSP/015	15mm $\frac{1}{2}$ "
	FOVCPLUGSP/020	20mm $\frac{3}{4}$ "
	FOVCPLUGSP/025	25mm 1"
	FOVCPLUGSP/032	32mm $1\frac{1}{4}$ "
	FOVCPLUGSP/040	40mm $1\frac{1}{2}$ "
	FOVCPLUGSP/050	50mm 2"

Refer to Pipe Clips, Dressing Sets & Backing Rings list for full range.

# THE SMARTER CHOICE.

## +GF+ SCHEDULE 80 PVC

### HI-STRENGTH INDUSTRIAL PIPING SYSTEM

#### PVC SCH80 VAN STONE FLANGES

	Code	Size (NB)
<b>Flange (Van Stone) Awivel Ring (854) Drilled ANSI 150</b>	FPVCFLVS150/015 FPVCFLVS150/020 FPVCFLVS150/025 FPVCFLVS150/032 FPVCFLVS150/040 FPVCFLVS150/050 FPVCFLVS150/065 FPVCFLVS150/080 FPVCFLVS150/100 FPVCFLVS150/150 FPVCFLVS150/200 FPVCFLVS150/250 FPVCFLVS150/300	15mm $\frac{1}{2}$ " 20mm $\frac{3}{4}$ " 25mm 1" 32mm $1\frac{1}{4}$ " 40mm $1\frac{1}{2}$ " 50mm 2" 65mm $2\frac{1}{2}$ " 80mm 3" 100mm 4" 150mm 6" 200mm 8" 250mm 10" 300mm 12"
<b>Flange (Van Stone) Drilled Table E</b>	FPVCFLSDE/080 FPVCFLSDE/100	80mm 3" 100mm 4"
<b>Flange (Van Stone) Drilled DIN</b>	FPVCFLVSDIN/080 FPVCFLVSDIN/100	80mm 3" 100mm 4"
<b>Flange (Van Stone) Universal Drilling</b>	FPVCFLVSU/050 FPVCFLVSU/150 FPVCFLVSU/200	50mm 2" 150mm 6" 200mm 8"
<b>Flange (Spigot Van Stone)</b>	FPVCFLVSSP/015 FPVCFLVSSP/020 FPVCFLVSSP/025 FPVCFLVSSP/040 FPVCFLVSSP/050 FPVCFLVSSP/065 FPVCFLVSSP/080 FPVCFLVSSP/100 FPVCFLVSSP/150 FPVCFLVSSP/200	15mm $\frac{1}{2}$ " 20mm $\frac{3}{4}$ " 25mm 1" 40mm $1\frac{1}{2}$ " 50mm 2" 65mm $2\frac{1}{2}$ " 80mm 3" 100mm 4" 150mm 6" 200mm 8"

#### PVC SCH80 FLANGES

	Code	Size (NB)
<b>Stub Flange, PN 15</b>	FPVCSTUB/015 FPVCSTUB/020 FPVCSTUB/025 FPVCSTUB/032 FPVCSTUB/040	15mm $\frac{1}{2}$ " 20mm $\frac{3}{4}$ " 25mm 1" 32mm $1\frac{1}{4}$ " 40mm $1\frac{1}{2}$ "
<b>Flange (Slip) Fixed Ring (851) Drilled ANSI 150</b>	FPVCFLPL150/015 FPVCFLPL150/020 FPVCFLPL150/025 FPVCFLPL150/032 FPVCFLPL150/040 FPVCFLPL150/050 FPVCFLPL150/065 FPVCFLPL150/080 FPVCFLPL150/100 FPVCFLPL150/150 FPVCFLPL150/200	15mm $\frac{1}{2}$ " 20mm $\frac{3}{4}$ " 25mm 1" 32mm $1\frac{1}{4}$ " 40mm $1\frac{1}{2}$ " 50mm 2" 65mm $2\frac{1}{2}$ " 80mm 3" 100mm 4" 150mm 6" 200mm 8"
<b>Flange, Blind (853) Drilled ANSI 150</b>	FPVCFLB150/015 FPVCFLB150/020 FPVCFLB150/025 FPVCFLB150/032 FPVCFLB150/040 FPVCFLB150/050 FPVCFLB150/080 FPVCFLB150/100 FPVCFLB150/150 FPVCFLB150/200	15mm $\frac{1}{2}$ " 20mm $\frac{3}{4}$ " 25mm 1" 32mm $1\frac{1}{4}$ " 40mm $1\frac{1}{2}$ " 50mm 2" 80mm 3" 100mm 4" 150mm 6" 200mm 8"

# +GF+ SCHEDULE 80 PVC

## HI-STRENGTH INDUSTRIAL PIPING SYSTEM

PVC HOSETAIL ADAPTORS			
	Code	Size (NB)	
<b>Hosetail Adaptor Male</b> 	FPVCHOADPT/015	15mm	1/2"
	FPVCHOADPT/020	20mm	3/4"
	FPVCHOADPT/025	25mm	1"
	FPVCHOADPT/032	32mm	1 1/4"
	FPVCHOADPT/040	40mm	1 1/2"
	FPVCHOADPT/050	50mm	2"
NPT THREAD			
<b>Hosetail Adaptor Female</b> 	FPVCHOADPTF/015	15mm	1/2"
	FPVCHOADPTF/020	20mm	3/4"
	FPVCHOADPTF/025	25mm	1"
	FPVCHOADPTF/032	32mm	1 1/4"
	FPVCHOADPTF/040	40mm	1 1/2"
	FPVCHOADPTF/050	50mm	2"
NPT THREAD			

PVC MALE BSP HOSETAIL ADAPTER			
	Code	Size (NB)	
<b>Hosetail Adaptor Male</b> 	FUHOADPT/008	8mm	1/4"
	FUHOADPT/010	10mm	5/8"
	FUHOADPT/015	15mm	1/2"
	FUHOADPT/020	20mm	3/4"
	FUHOADPT/025	25mm	1"
BSP THREAD			

PVC SPIGOT HOSETAIL ADAPTOR			
	Code	Size (NB)	
<b>Spigot Hosetail</b> 	FPVCHOADPTSP/020	20	3/4"
	FPVCHOADPTSP/025	25	1"
	FPVCHOADPTSP/032	32	1 1/4"
	FPVCHOADPTSP/040	40	1 1/2"
	FPVCHOADPTSP/050	50	2"
	FPVCHOADPTSP/080	80	3"

PVC HOSETAIL 90° ELBOWS			
	Code	Size (NB)	
<b>Elbow 90° Hosetail</b> 	FPVCHOEL90/015	15	1/2"
	FPVCHOEL90/020	20	3/4"
	FPVCHOEL90/025	25	1"

PVC SCH80 TANK ADAPTER			
	Code	Size (NB)	
<b>Tank Adapter</b> 	FPVCTA/015	15mm	1/2"
	FPVCTA/020	20mm	3/4"
	FPVCTA/025	25mm	1"
	FPVCTA/032	32mm	1 1/4"
	FPVCTA/040	40mm	1 1/2"
	FPVCTA/050	50mm	2"
	FPVCTA/080	80mm	3"
	FPVCTA/100	100mm	4"
EPDM NPT Thread			

PIPE CLIPS			
	Code	Size (NB)	
<b>Pipe Clips</b> 	167061086	15mm	1/2"
	167061087	20mm	3/4"
	167061088	25mm	1"
	167061089	32mm	1 1/4"
	167061090	40mm	1 1/2"
	167061091	50mm	2"
	167061112	65mm	2 1/2"
	FPCI/080	80mm	3"
	FPCI/100	100mm	4"
	FPCI/150	150mm	6"
	FPCI/200	200mm	8"

# THE SMARTER CHOICE.

## +GF+ SCHEDULE 80 CPVC

### HI-TEMP INDUSTRIAL PIPING SYSTEM

Asmuss' CPVC 'Hi-Temp' Schedule 80 piping system is a truly industrial product with special application in process pipework where high integrity and excellent chemical resistance are required.

#### Chemical Resistance

CPVC (Chlorinated Polyvinyl Chloride) is particularly useful for handling corrosive fluids at temperatures up to 99°C.

In chemical resistance, it is comparable to PVC. It weighs about one-sixth as much as stainless steel, will not sustain combustion

(self-extinguishing) and has low thermal conductivity.

Suggested uses include process piping for hot corrosive liquids, hot and cold water lines, and similar applications above the temperature range of PVC.

CPVC pipe may be joined by solvent welding, threading or flanging.

#### Solvent Cement Jointing

The Installation of CPVC Schedule 80 pipework should only be undertaken by suitably qualified and experienced persons.

Please contact Asmuss for appropriate training.

Asmuss recommends the use of IPS-724 solvent cement when jointing CPVC Schedule 80. This has been specifically developed for use with CPVC Schedule 80 in chemical applications.

#### Standards

CPVC Schedule 80 was initially developed for the American market and as such is made to the relevant ASTM Standards.

Flanges are drilled to the ANSI 150 pattern and Threaded fittings are NPT.

Please note that this is different to the Table D/E Flanges and BSP threads common to New Zealand.

CPVC HI-TEMP SCHEDULE 80 PIPE - PLAIN ENDS							
	Code	Size (NB) mm	Size (NB) inch	OD mm	Avg ID mm	Min Wall Thickness (mm)	Nom Weight (Kg/m)
	PCPVC80/008	8	1/4"	13.7	7.2	3	0.15
	PCPVC80/010	10	5/16"	17.1	10.2	3.2	0.2
	PCPVC80/015	15	1/2"	21.3	13.4	3.7	0.31
	PCPVC80/020	20	5/8"	26.7	18.3	3.9	0.41
	PCPVC80/025	25	1"	33.4	23.7	4.5	0.61
	PCPVC80/032	32	1 1/4"	42.2	31.9	4.9	0.84
	PCPVC80/040	40	1 1/2"	48.3	37.5	5.1	1.02
	PCPVC80/050	50	2"	60.3	48.6	5.5	1.46
	PCPVC80/065	65	2 1/2"	73	58.2	7	2.15
	PCPVC80/080	80	3"	88.9	72.7	7.6	2.88
	PCPVC80/100	100	4"	114.3	96.2	8.6	4.21
	PCPVC80/125	125	5"	141.3	121.11	9.5	6.16
	PCPVC80/150	150	6"	168.3	144.8	11	8.04
	PCPVC80/200	200	8"	219.1	192.2	12.7	12.68
	PCPVC80/250	250	10"	273.05	241.12	15.06	18.80
	PCPVC80/300	300	12"	323.85	286.87	17.44	25.87

15 - 200mm pipe is also available in 1 metre sections - POA  
Please refer our Pipe Clips price list for imperial pipe clips.

# +GF+ SCHEDULE 80 CPVC

## HI-TEMP INDUSTRIAL PIPING SYSTEM

CPVC SCH80 SOCKETS			
	Code	Size (NB)	
<b>CPVC Sch80 Socket Plain (9829)</b>	FCPVCSP/008 FCPVCSP/010 FCPVCSP/015 FCPVCSP/020 FCPVCSP/025 FCPVCSP/032 FCPVCSP/040 FCPVCSP/050 FCPVCSP/065 FCPVCSP/080 FCPVCSP/100 FCPVCSP/150 FCPVCSP/200 FCPVCSP/250 FCPVCSP/300	8mm 10mm 15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm 150mm 200mm 250mm 300mm	1/4" 3/8" 1/2" 5/8" 1" 1 1/8" 1 1/2" 2" 2 1/2" 3" 4" 6" 8" 10" 12"
			
<b>CPVC Sch80 Plain/Threaded NPT Socket (9835)</b>	FCPVCSP/015 FCPVCSP/020 FCPVCSP/025 FCPVCSP/032 FCPVCSP/040 FCPVCSP/050 FCPVCSP/080 FCPVCSP/100	15mm 20mm 25mm 32mm 40mm 50mm 80mm 100mm	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 3" 4"
			
NPT THREAD			

CPVC SCH80 90° ELBOWS			
	Code	Size (NB)	
<b>CPVC Sch80 Elbow 90° Plain (9806)</b>	FCPVCEL90/015 FCPVCEL90/020 FCPVCEL90/025 FCPVCEL90/032 FCPVCEL90/040 FCPVCEL90/050 FCPVCEL90/065 FCPVCEL90/080 FCPVCEL90/100 FCPVCEL90/150 FCPVCEL90/200 FCPVCEL90/250 FCPVCEL90/300	15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm 150mm 200mm 250mm 300mm	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3" 4" 6" 8" 10" 12"
			

CPVC SCH80 45° ELBOWS			
	Code	Size (NB)	
<b>CPVC Sch80 Elbow 45° Plain (9806)</b>	FCPVCEL45/010 FCPVCEL45/015 FCPVCEL45/020 FCPVCEL45/025 FCPVCEL45/032 FCPVCEL45/040 FCPVCEL45/050 FCPVCEL45/065 FCPVCEL45/080 FCPVCEL45/100 FCPVCEL45/150 FCPVCEL45/200 FCPVCEL45/250 FCPVCEL45/300	10mm 15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm 150mm 200mm 250mm 300mm	5/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3" 4" 6" 8" 10" 12"
			

CPVC SCH80 SOCKET UNIONS			
	Code	Size (NB)	
<b>CPVC Sch80 Socket Union Plain FPM (9897)</b>	FCPVCSP/008 FCPVCSP/010 FCPVCSP/015 FCPVCSP/020 FCPVCSP/025 FCPVCSP/032 FCPVCSP/040 FCPVCSP/050 FCPVCSP/080 FCPVCSP/100	8mm 10mm 15mm 20mm 25mm 32mm 40mm 50mm 80mm 100mm	1/4" 3/8" 1/2" 5/8" 1" 1 1/4" 1 1/2" 2" 3" 4"
			
FPM O-RING			

CPVC SCH80 TEES			
	Code	Size (NB)	
<b>CPVC Sch80 Tee Plain (9801)</b>	FCPVCTEE/015 FCPVCTEE/020 FCPVCTEE/025 FCPVCTEE/032 FCPVCTEE/040 FCPVCTEE/050 FCPVCTEE/065 FCPVCTEE/080 FCPVCTEE/100 FCPVCTEE/150 FCPVCTEE/200 FCPVCTEE/250 FCPVCTEE/300	15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm 150mm 200mm 250mm 300mm	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3" 4" 6" 8" 10" 12"
			

CPVC SCH80 90° BENDS			
	Code	Size (NB)	
<b>CPVC Sch80 Swept BEND 90° Plain</b>	FCPVCBE90/015 FCPVCBE90/020 FCPVCBE90/025 FCPVCBE90/032 FCPVCBE90/040 FCPVCBE90/050 FCPVCBE90/065 FCPVCBE90/080 FCPVCBE90/100	15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3" 4"
			

CPVC SCH80 END CAPS			
	Code	Size (NB)	
<b>CPVC Sch80 Plain Cap (9847)</b>	FCPVCAP/015 FCPVCAP/020 FCPVCAP/025 FCPVCAP/032 FCPVCAP/040 FCPVCAP/050 FCPVCAP/065 FCPVCAP/080 FCPVCAP/100	15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3" 4"
			
FCPVCAP/200	200mm	8"	

# THE SMARTER CHOICE.

## +GF+ SCHEDULE 80 CPVC

### HI-TEMP INDUSTRIAL PIPING SYSTEM

#### CPVC PLAIN FLANGES

	Code	Size (NB)
<b>CPVC Sch80 Flange Plain, ANSI 150 (9851)</b>	FCPVCFLPL150/015	15mm $\frac{1}{2}$ "
	FCPVCFLPL150/020	20mm $\frac{3}{4}$ "
	FCPVCFLPL150/025	25mm 1"
	FCPVCFLPL150/032	32mm $1\frac{1}{4}$ "
	FCPVCFLPL150/040	40mm $1\frac{1}{2}$ "
	FCPVCFLPL150/050	50mm 2"
	FCPVCFLPL150/065	65mm $2\frac{1}{2}$ "
	FCPVCFLPL150/080	80mm 3"
	FCPVCFLPL150/100	100mm 4"
	FCPVCFLPL150/150	150mm 6"
	FCPVCFLPL150/200	200mm 8"



#### CPVC SCH80 VAN STONE FLANGES

	Code	Size (NB)
<b>CPVC Sch80 Van Stone Flange ANSI 150 (9854)</b>	FCPVCFLVS150/015	15mm $\frac{1}{2}$ "
	FCPVCFLVS150/020	20mm $\frac{3}{4}$ "
	FCPVCFLVS150/025	25mm 1"
	FCPVCFLVS150/032	32mm $1\frac{1}{4}$ "
	FCPVCFLVS150/040	40mm $1\frac{1}{2}$ "
	FCPVCFLVS150/050	50mm 2"
	FCPVCFLVS150/065	65mm $2\frac{1}{2}$ "
	FCPVCFLVS150/080	80mm 3"
	FCPVCFLVS150/100	100mm 4"
	FCPVCFLVS150/150	150mm 6"
	FCPVCFLVS150/200	200mm 8"



#### CPVC Sch80 Spigot Van Stone Flange ANSI 150

	Code	Size (NB)
	FCPVCFLVSSP/015	15mm $\frac{1}{2}$ "
	FCPVCFLVSSP/020	20mm $\frac{3}{4}$ "
	FCPVCFLVSSP/025	25mm 1"
	FCPVCFLVSSP/032	32mm $1\frac{1}{4}$ "
	FCPVCFLVSSP/040	40mm $1\frac{1}{2}$ "
	FCPVCFLVSSP/050	50mm 2"
	FCPVCFLVSSP/065	65mm $2\frac{1}{2}$ "
	FCPVCFLVSSP/080	80mm 3"
	FCPVCFLVSSP/100	100mm 4"
	FCPVCFLVSSP/150	150mm 6"

#### CPVC Sch80 Van Stone Flange DIN

	Code	Size (NB)
	FCPVCFLVSDIN/080	80mm 3"
	FCPVCFLVSDIN/100	100mm 4"



#### CPVC Sch80 Van Stone Flange Universal

	Code	Size (NB)
	FCPVCFLVSU/050	50mm 2"
	FCPVCFLVSU/150	150mm 6"



#### CPVC SCH80 BLANK FLANGES

	Code	Size (NB)
<b>CPVC Sch80 Flange Blank, ANSI 150 (9853)</b>	FCPVCFLB150/015	15mm $\frac{1}{2}$ "
	FCPVCFLB150/020	20mm $\frac{3}{4}$ "
	FCPVCFLB150/025	25mm 1"
	FCPVCFLB150/032	32mm $1\frac{1}{4}$ "
	FCPVCFLB150/040	40mm $1\frac{1}{2}$ "
	FCPVCFLB150/050	50mm 2"
	FCPVCFLB150/065	65mm $2\frac{1}{2}$ "
	FCPVCFLB150/080	80mm 3"
	FCPVCFLB150/100	100mm 4"
	FCPVCFLB150/150	150mm 6"
	FCPVCFLB150/200	200mm 8"



#### CPVC SCH80 ADAPTORS

	Code	Size (NB)
<b>CPVC Sch80, NPT Female Adaptor (9878)</b>	FCPVCFMADPT/015	15mm $\frac{1}{2}$ "
	FCPVCFMADPT/020	20mm $\frac{3}{4}$ "
	FCPVCFMADPT/025	25mm 1"
	FCPVCFMADPT/032	32mm $1\frac{1}{4}$ "
	FCPVCFMADPT/040	40mm $1\frac{1}{2}$ "
	FCPVCFMADPT/050	50mm 2"
	FCPVCFMADPT/080	80mm 3"
<b>CPVC Sch80, NPT Male Adaptor (9836)</b>	FCPVCMADPT/015	15mm $\frac{1}{2}$ "
	FCPVCMADPT/020	20mm $\frac{3}{4}$ "
	FCPVCMADPT/025	25mm 1"
	FCPVCMADPT/032	32mm $1\frac{1}{4}$ "
	FCPVCMADPT/040	40mm $1\frac{1}{2}$ "
	FCPVCMADPT/050	50mm 2"
	FCPVCMADPT/080	80mm 3"
	FCPVCMADPT/100	100mm 4"



#### CPVC SCH80 PLUGS

	Code	Size (NB)
<b>CPVC Sch80 Plug, NPT (9850)</b>	FCPVCPLUGNPT/008	8mm $\frac{1}{4}$ "
	FCPVCPLUGNPT/010	10mm $\frac{3}{8}$ "
	FCPVCPLUGNPT/015	15mm $\frac{1}{2}$ "
	FCPVCPLUGNPT/020	20mm $\frac{3}{4}$ "
	FCPVCPLUGNPT/025	25mm 1"
	FCPVCPLUGNPT/040	40mm $1\frac{1}{2}$ "
	FCPVCPLUGNPT/050	50mm 2"
	FCPVCPLUGNPT/100	100mm 4"



#### CPVC SCH80 TANK ADAPTERS

	Code	Size (NB)
<b>CPVC Sch80 Tank Adaptor FPM</b>	FCPVCTAFPM/015	15mm $\frac{1}{2}$ "
	FCPVCTAFPM/020	20mm $\frac{3}{4}$ "
	FCPVCTAFPM/025	25mm 1"
	FCPVCTAFPM/032	32mm $1\frac{1}{4}$ "
	FCPVCTAFPM/040	40mm $1\frac{1}{2}$ "
	FCPVCTAFPM/050	50mm 2"
	FCPVCTAFPM/080	80mm 3"



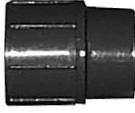
# +GF+ SCHEDULE 80 CPVC

## HI-TEMP INDUSTRIAL PIPING SYSTEM

### CPVC HOSETAILS

	Code	Size (NB)	
<b>CPVC Hosetail NPT</b>  Schedule 40	FCPVCHOADPT/015	15mm	1/2"
	FCPVCHOADPT/020	20mm	3/4"
	FCPVCHOADPT/025	25mm	1"
	FCPVCHOADPT/032	32mm	1 1/4"
	FCPVCHOADPT/040	40mm	1 1/2"
	FCPVCHOADPT/050	50mm	2"

### CPVC REDUCING BUSHES

	Code	Size (NB)	
<b>CPVC Sch80 Reducing Bush Plain (9837)</b>  Schedule 40	FCPVCBP/010x008	10x8mm	3/8 x 1/4"
	FCPVCBP/015x008	15x8mm	1/2 x 1/4"
	FCPVCBP/015x010	15x10mm	1/2 x 3/8"
	FCPVCBP/020x015	20x15mm	3/4 x 1/2"
	FCPVCBP/025x015	25x15mm	1 x 1/2"
	FCPVCBP/025x020	25x20mm	1 x 3/4"
	FCPVCBP/032x015	32x15mm	1 1/4 x 1/2"
	FCPVCBP/032x020	32x20mm	1 1/4 x 3/4"
	FCPVCBP/032x025	32x25mm	1 1/4 x 1"
	FCPVCBP/040x015	40x15mm	1 1/2 x 1/2"
	FCPVCBP/040x020	40x20mm	1 1/2 x 3/4"
	FCPVCBP/040x025	40x25mm	1 1/2 x 1"
	FCPVCBP/040x032	40x32mm	1 1/2 x 1 1/4"
	FCPVCBP/050x015	50x15mm	2 x 1/2"
<b>CPVC Sch80 Reducing Bush NPT (9839)</b>  NPT THREAD	FCPVCBP/050x020	50x20mm	2 x 3/4"
	FCPVCBP/050x025	50x40mm	2 x 1 1/2"
	FCPVCBP/065x050	65x50mm	2 1/2 x 2"
	FCPVCBP/080x050	80x50mm	3 x 2"
	FCPVCBP/100x050	100x50mm	4 x 2"
	FCPVCBN/010X008	10x8mm	3/8 x 1/4"
	FCPVCBN/015X008	15x8mm	1/2 x 1/4"
	FCPVCBN/015X010	15x10mm	1/2 x 3/8"
	FCPVCBN/020X015	20x15mm	3/4 x 1/2"
	FCPVCBN/025X015	25x15mm	1 x 1/2"
	FCPVCBN/025X020	25x20mm	1 x 3/4"
	FCPVCBN/032X025	32x25mm	1 1/4 x 1"
	FCPVCBN/040X025	40x25mm	1 1/2 x 1"
	FCPVCBN/040X032	40x32mm	1 1/2 x 1 1/4"
<b>CPVC SCH80 REDUCING SOCKETS</b>  NPT THREAD	FCPVCBN/050X020	50x20mm	2 x 3/4"
	FCPVCBN/050X040	50x40mm	2 x 1 1/2"
	FCPVCBN/065X050	65x50mm	2 1/2 x 2"
	FCPVCBN/080X050	80x50mm	3 x 2"
	FCPVCBN/100X050	100x50mm	4 x 2"
	FCPVCRS/020x015	20x15mm	3/4 x 1/2"
	FCPVCRS/025x015	25x15mm	1 x 1/2"
	FCPVCRS/025x020	25x20mm	1 x 3/4"
	FCPVCRS/032x025	32x25mm	1 1/4 x 1"
	FCPVCRS/040x025	40x25mm	1 1/2 x 1"
	FCPVCRS/040x032	40x32mm	1 1/2 x 1 1/4"
	FCPVCRS/050x025	50x25mm	2 x 1"
	FCPVCRS/050x040	50x40mm	2 x 1 1/2"
	FCPVCRS/065x050	65x50mm	2 1/2 x 2"
<b>CPVC SCH80 REDUCING SOCKETS</b>  NPT THREAD	FCPVCRS/080x050	80x50mm	3 x 2"
	FCPVCRS/100x050	100x50mm	4 x 2"
	FCPVCRS/100x080	100x80mm	4 x 3"
	FCPVCRS/150x100	150x100mm	6 x 4"
	FCPVCRS/200x150	200x150mm	8 x 6"
	FCPVCRS/300x250	300x250mm	12 x 10"

### CPVC REDUCING BUSHES

	Code	Size (NB)	
<b>CPVC Sch80 Reducing Bush Plain (9837)</b> 	FCPVCBP/010x008	10x8mm	3/8 x 1/4"
	FCPVCBP/015x008	15x8mm	1/2 x 1/4"
	FCPVCBP/015x010	15x10mm	1/2 x 3/8"
	FCPVCBP/020x015	20x15mm	3/4 x 1/2"
	FCPVCBP/025x015	25x15mm	1 x 1/2"
	FCPVCBP/025x020	25x20mm	1 x 3/4"
	FCPVCBP/032x015	32x15mm	1 1/4 x 1/2"
	FCPVCBP/032x020	32x20mm	1 1/4 x 3/4"
	FCPVCBP/032x025	32x25mm	1 1/4 x 1"
	FCPVCBP/040x015	40x15mm	1 1/2 x 1/2"
	FCPVCBP/040x020	40x20mm	1 1/2 x 3/4"
	FCPVCBP/040x025	40x25mm	1 1/2 x 1"
	FCPVCBP/040x032	40x32mm	1 1/2 x 1 1/4"
	FCPVCBP/050x015	50x15mm	2 x 1/2"
<b>CPVC Sch80 Reducing Bush NPT (9839)</b> 	FCPVCBP/050x020	50x20mm	2 x 3/4"
	FCPVCBP/050x040	50x40mm	2 x 1 1/2"
	FCPVCBP/065x050	65x50mm	2 1/2 x 2"
	FCPVCBP/080x040	65x40mm	2 1/2 x 1 1/2"
	FCPVCBP/080x050	80x50mm	3 x 1 1/2"
	FCPVCBP/080x065	80x65mm	3 x 2 1/2"
	FCPVCBP/100x050	100x50mm	4 x 2"
	FCPVCBP/100x080	100x80mm	4 x 3"
	FCPVCBP/150x100	150x100mm	6 x 4"
	FCPVCBP/200x150	200x150mm	8 x 6"
	FCPVCBT/010x008	10x8mm	3/8 x 1/4"
	FCPVCBT/015x008	15x8mm	1/2 x 1/4"
	FCPVCBT/015x010	15x10mm	1/2 x 3/8"
	FCPVCBT/020x008	20x8mm	3/4 x 1/4"
<b>CPVC Sch80 Reducing Bush Plain/ Threaded NPT (9838)</b> 	FCPVCBT/020x015	20x15mm	3/4 x 1/2"
	FCPVCBT/025x015	25x15mm	1 x 1/2"
	FCPVCBT/025x020	25x20mm	1 x 3/4"
	FCPVCBT/032x015	32x15mm	1 1/4 x 1/2"
	FCPVCBT/032x020	32x20mm	1 1/4 x 3/4"
	FCPVCBT/032x025	32x25mm	1 1/4 x 1"
	FCPVCBT/040x015	40x15mm	1 1/2 x 1/2"
	FCPVCBT/040x020	40x20mm	1 1/2 x 3/4"
	FCPVCBT/040x025	40x25mm	1 1/2 x 1"
	FCPVCBT/040x032	40x32mm	1 1/2 x 1 1/4"
	FCPVCBT/050x015	50x15mm	2 x 1/2"
	FCPVCBT/050x020	50x20mm	2 x 3/4"
	FCPVCBT/050x025	50x25mm	2 x 1"
	FCPVCBT/050x032	50x32mm	2 x 1 1/4"
<b>CPVC SCH80 REDUCING SOCKETS</b>  NPT THREAD	FCPVCBT/050x040	50x40mm	2 x 1 1/2"
	FCPVCBT/065x050	65x50mm	2 1/2 x 2"
	FCPVCBT/080x050	80x50mm	3 x 2"
	FCPVCBT/080x065	80x65mm	3 x 2 1/2"
	FCPVCBT/100x050	100x50mm	4 x 2"
	FCPVCBT/100x080	100x80mm	4 x 3"

# THE SMARTER CHOICE.

## +GF+ SCHEDULE 80 CPVC

### HI-TEMP INDUSTRIAL PIPING SYSTEM

CPVC SCH80 NIPPLES			
	Code	Size (NB)	
<b>CPVC Sch80 Nipple Plain/Threaded BSP, Machined</b>   BSP THREAD	FCPVCNIPTBSP/015	15mm	1/2"
	FCPVCNIPTBSP/020	20mm	3/4"
	FCPVCNIPTBSP/025	25mm	1"
	FCPVCNIPTBSP/032	32mm	1 1/4"
	FCPVCNIPTBSP/040	40mm	1 1/2"
	FCPVCNIPTBSP/050	50mm	2"
	FCPVCNIPTBSP/080	80mm	3"
	FCPVCNIPTBSP/100	100mm	4"

PIPE CLIPS			
	Code	Size (NB)	
Pipe Clips	167061086	15mm	1/2"
	167061087	20mm	3/4"
	167061088	25mm	1"
	167061089	32mm	1 1/4"
	167061090	40mm	1 1/2"
	167061091	50mm	2"
	167061112	65mm	2 1/2"
	FPCI/080	80mm	3"
	FPCI/100	100mm	4"
	FPCI/150	150mm	6"
	FPCI/200	200mm	8"

Refer to Pipe Clips, Dressing Sets and Backing Rings list for full range.

## +GF+ CLEAR PVC PIPE

### FOR METRIC & IMPERIAL SYSTEMS

Clear PVC piping is a valuable addition to our PVC piping systems. We have both metric and imperial dimensions available to match either the +GF+ Metric PVC or the Schedule 80 PVC systems respectively.

We also have a range of clear fittings and valving available, as well as the clear cement and primer required for joining the piping systems.

Please contact our sales team for information on our other piping and valving systems.

#### IMPERIAL CLEAR PVC

	Code	Size (NB) mm	Wall Thickness mm
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Ideal for site glasses within Schedule 40/80 Hi-Strength systems, or other imperial pipework.

Refer to Schedule 80 section for dimensionally compatible fittings.

Please contact us for chemical compatibility.

PVC-u Schedule 40	PPVCC/015	15	2.9
	PPVCC/020	20	3.0
	PPVCC/025	25	3.6
	PPVCC/032	32	3.7
	PPVCC/040	40	3.9
	PPVCC/050	50	4.1
	PPVCC/080	80	5.8
	PPVCC/100	100	6.3
	PPVCC/200	200	8.6
3 metre lengths			

#### +GF+ METRIC CLEAR PVC-U

	Code	Size (NB) mm	Wall Thickness mm
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This European range can be used as a visual inspection point for our secondary containment system as well as for standard site glasses.

This pipework has a nominal pressure rating of PN16 to 63mm and PN10 for larger sizes.

Refer to PVC-u Industrial PROFIT section for dimensionally compatible fittings.

PVC-u PN16	192017105	16	1.2
	192017106	20	1.5
	192017107	25	1.9
	192017108	32	2.4
	192017109	40	3.0
	192017110	50	3.7
	192017111	63	4.7
	192017088	90	4.3
5 metre lengths			

**THE SMARTER CHOICE.**

# PVC-U INDUSTRIAL

**+GF+ METRIC PIPING SYSTEMS INCLUDING PRO-FIT**

The +GF+ Metric PVC-U system is designed for industrial applications and is commonly used to convey chemicals, aggressive media and water. This European product range is produced from high quality raw materials specifically for demanding applications and for compatibility with the +GF+ range of industrial valving.

## Applications

- Water treatment
  - Thermal baths and swimming pools
  - Surfactant based central foaming systems
  - Waste water treatment
  - Sewage treatment plants
  - Cooling water
  - Drinking water treatment
  - Food and beverage industries

## **Chemical Resistance**

PVC-U has excellent chemical resistance against aqueous saline solutions, acids, alkalines, fuels and oils. Please contact our sales team for full details of chemical resistance.

## Related Documents

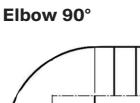
- #### **Related Documents**
- Pipe Clips, Backing Rings and Dressing Sets List

## **PRO-FIT SYSTEM**

The PRO-FIT system offers installation advantages in both time and space savings. Six innovative spigot-socket fitting shapes provide the following benefits:

- Integrated cementing length and insertion depth marking makes handling faster, safer and easier.
  - Direct jointing of fitting to fitting without extra pipe sections means less joints, quicker installations and space savings of up to 20%
  - Dry assembly gives the ability to set up the installation before final cementing is carried out.
  - 45° angles marked on both end face and socket and spigot branches means easy alignment and accurate angles.

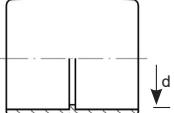
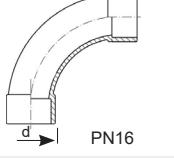
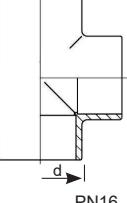
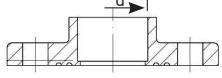
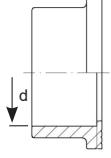
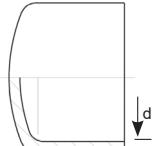
+GF+ METRIC PVC-U PIPING PN16			
	Code	Size OD (mm)	Min Wall Thickness (mm)
<b>Pipe PN16</b>	161017104	12	1
	161017105	16	1.2
	161017106	20	1.5
	161017107	25	1.9
	161017108	32	2.4
	161017109	40	3
	161017110	50	3.7
	161017111	63	4.7
	161017112	75	5.6
	161017113	90	6.7
	161017114	110	8.2
	161017115	125	9.3
	161017116	140	10.4
	161017117	160	11.9

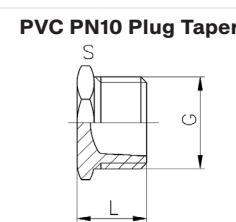
+GF+ METRIC PVC-U FITTINGS						
	Code	Size d			Code	Size d
<b>Elbow 90°</b>	721100104	12			721150105	16
	721100105	16			721150106	20
	721100106	20			721150107	25
	721100107	25			721150108	32
	721100108	32			721150109	40
	721100109	40			721150110	50
	721100110	50			721150111	63
	721100111	63			721150112	75
	721100112	75			721150113	90
	721100113	90			721150114	110
	721100114	110				
PN16			<b>Elbow 45°</b>		PN16	
						

# PVC-U INDUSTRIAL

## +GF+ METRIC PIPING SYSTEMS INCLUDING PRO-FIT

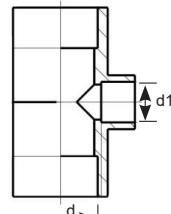
### +GF+ METRIC PVC-U FITTINGS

	Code	Size d			Code	Size d
<b>Socket</b>	721910105	16			161050245	16
	721910106	20			161050246	20
	721910107	25			161050247	25
	721910108	32			161050248	32
	721910109	40			161050249	40
	721910110	50			161050250	50
	721910111	63			161050251	63
	721910112	75				
	721910113	90				
	721910114	110				
<b>Bend 90°</b>	721000107	25				
	721000108	32				
	721000109	40				
	721000110	50				
	721000111	63				
	721000112	75				
	721000113	90				
<b>Tee 90°</b>	721200105	16				
	721200106	20				
	721200107	25				
	721200108	32				
	721200109	40				
	721200110	50				
	721200111	63				
	721200112	75				
	721200113	90				
	721200114	110				
<b>Full Face Flange ISO/DIN Bolt Pattern</b>	721740106	20				
	721740107	25				
	721740108	32				
	721740109	40				
	721740110	50				
	721740111	63				
	721740112	75				
	721740113	90				
	721740114	110				
	721740116	140				
	721740117	160				
<b>Stub Flange</b>	721800106	20				
	721800107	25				
	721800108	32				
	721800109	40				
	721800110	50				
	721790111	63				
	721790112	75				
	721790113	90				
	721790114	110				
<b>End Cap</b>	721960104	12				
	721960105	16				
	721960106	20				
	721960107	25				
	721960108	32				
	721960109	40				
	721960110	50				
	721960111	63				
	721960112	75				
	721960113	90				
	721960114	110				

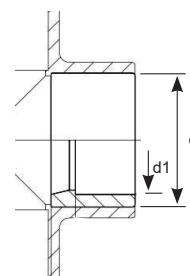


	Code	Size
	d	d1

#### Tee 90°, Reducing



#### Reducing Bush, Short



PN16

# THE SMARTER CHOICE.

## PVC-U INDUSTRIAL

### +GF+ METRIC PIPING SYSTEMS INCLUDING PRO-FIT

#### +GF+ METRIC PVC-U FITTINGS

	Code	Size d			Code	Size (OD)
<b>Socket Unions</b> <b>EPDM</b>	721510105	16		<b>PVC Spigot Hosetail</b> <b>Parallel Hose Barb</b>	721960404	12
	721510106	20			721960405	16
	721510107	25			721960406	20
	721510108	32			721960407	25
	721510109	40			721960408	32
	721510110	50			721960409	40
	721510111	63			721960410	50
	721510112	75			721960411	63
	721510313	90				
	721510114	110				
<b>Socket Unions</b> <b>FPM</b>	721510128	10		<b>PVC PN10 WYE</b>	721250105	16
	721510129	12			721250107	25
	721510130	16			721250108	32
	721510131	20			721250109	40
	721510132	25			721250110	50
	721510133	32			721250111	63
	721510134	40			721250112	75
	721510135	50				
	721510136	63				
	721510137	75				
	721510138	90				
	721510139	110				

#### +GF+ METRIC PVC-U ADAPTOR FITTINGS

	Code	Size			Code	Size	
		d	Rp			d	
<b>Adaptor Socket</b>	VADPTSOPT/010	16	$\frac{3}{8}$ "	<b>Male Adaptor</b> <b>PN16</b>	721910705	16	$\frac{3}{8}$ "
	VADPTSOPT/015	20	$\frac{1}{2}$ "		721910706	20	$\frac{1}{2}$ "
	VADPTSOPT/020	25	$\frac{3}{4}$ "		721910707	25	$\frac{3}{4}$ "
	VADPTSOPT/025	32	1"		721910708	32	1"
	VADPTSOPT/032	40	$1\frac{1}{4}$ "		721910709	40	$1\frac{1}{4}$ "
	VADPTSOPT/040	50	$1\frac{1}{2}$ "		721910710	50	$1\frac{1}{2}$ "
	VADPTSOPT/050	63	2"		721910711	63	2"
	VADPTSOPT/065	75	$2\frac{1}{2}$ "		721910712	75	$2\frac{1}{2}$ "
	VADPTSOPT/080	90	3"		721910713	90	3"
	VADPTSOPT/100	110	4"		721910714	110	4"
<b>Female Adaptor</b>	721900406	20	$\frac{1}{2}$ "	<b>PVC PN16 Tee</b> <b>Plain/Threaded</b>	721200205	16	$\frac{3}{8}$ "
	721900407	25	$\frac{3}{4}$ "		721200206	20	$\frac{1}{2}$ "
	721900408	32	1"		721200207	25	$\frac{3}{4}$ "
	721900409	40	$1\frac{1}{4}$ "		721200208	32	1"
	721900410	50	$1\frac{1}{2}$ "		721200209	40	$1\frac{1}{4}$ "
	721900411	63	2"		721200210	50	$1\frac{1}{2}$ "
					721200211	63	2"
<b>Reducing Bush</b> <b>Plain/Threaded</b>	721910404	12	$\frac{1}{4}$ "	<b>PVC Elbow 90°</b> <b>Plain/Threaded</b>	721100205	16	$\frac{3}{8}$ "
	721910434	20	$\frac{3}{8}$ "		721100206	20	$\frac{1}{2}$ "
	721910437	25	$\frac{1}{2}$ "		721100207	25	$\frac{3}{4}$ "
	721910441	32	$\frac{3}{4}$ "		721100208	32	1"
	721910446	40	1"		721100209	40	$1\frac{1}{4}$ "
	721910452	50	$1\frac{1}{4}$ "		721100210	50	$1\frac{1}{2}$ "

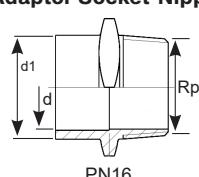
Note: Use only approved PTFE paste or tapes on threaded fittings

# PVC-U INDUSTRIAL

## +GF+ METRIC PIPING SYSTEMS INCLUDING PRO-FIT

### +GF+ METRIC PVC-U ADAPTOR FITTINGS

	Code	Size					Code	Size	
		d	d1	Rp				d	R
<b>Adaptor Socket-Nipple</b>	721910555	12	16	¾"			721913505	16	¾"
	721910556	16	20	½"			721913506	20	½"
	721910557	20	25	¾"			721913507	25	¾"
	721910558	25	32	1"			721913508	32	1"
	721910559	32	40	1¼"					
	721910560	40	50	1½"					
	721910561	50	63	2"					



### +GF+ PRO-FIT SYSTEM

	Code	Size					Code	Size			
		d	d1					d	d1	d2	d3
<b>Elbow 90°</b>	721100306	20	16				721910903	8	12	10	-
	721100307	25	20				721910905	12	16	8	12
	721100308	32	25				721910906	12	16	10	16
	721100309	40	32				721910908	16	20	10	16
	721100310	50	40				721910909	16	20	12	16
	721100311	63	50				721910910	20	25	12	16
<b>Elbow 45°</b>	721150306	20	16				721910911	20	25	16	20
	721150307	25	20				721910912	25	32	12	16
	721150308	32	25				721910913	25	32	16	20
	721150309	40	32				721910914	25	32	20	25
	721150310	50	40				721910915	32	40	16	20
	721150311	63	50				721910916	32	40	20	25
<b>Tee 90°</b>	721200306	20	16				721910917	32	40	25	32
	721200307	25	20				721910918	40	50	20	25
	721200308	32	25				721910919	40	50	25	32
	721200309	40	32				721910920	40	50	32	40
	721200310	50	40				721910921	50	63	25	32
	721200311	63	50				721910922	50	63	32	40
<b>Unions, EPDM</b>	721510305	16	12				721910923	50	63	40	50
	721510306	20	16				721910924	63	75	32	40
	721510307	25	20				721910925	63	75	40	50
	721510308	32	25				721910926	63	75	50	63
	721510309	40	32				721910927	75	90	40	50
	721510310	50	63				721910928	75	90	50	63
	721510311	63	50				721910929	75	90	63	75
<b>Unions, FPM</b>	721510330	16	12								
	721510331	20	16								
	721510332	25	20								
	721510333	32	25								
	721510334	40	32								
	721510335	50	63								
	721510336	63	50								

Refer to Backing Rings and Dressing Sets  
 PP Backing Rings for Chemical Applications  
 PP Pipe Clips  
 ISO/DIN 546

	Code	Size (OD)
<b>PP GF061H Pipe Clip ISO/DIN 546</b>	167061035	16mm
	167061036	20mm
	167061037	25mm
	167061038	32mm
	167061039	40mm
	167061040	50mm
	167061041	63mm
	167061012	75mm
	167061013	90mm
	167061014	110mm



# THE SMARTER CHOICE.

## uPVC

### PRESSURE PIPING SYSTEM

uPVC Pressure Pipe is manufactured to AS/NZS 1477 "PVC Pipes and fittings for Pressure applications". uPVC Pressure Pipe is compatible with the Asmuss range of uPVC Pressure Pipe fittings. Pipe is available with either a solvent cement Socket (SOE) or a rubber ring joint Socket (RRJ) on one end.

Note: Fittings 65 and 125-300mm are parallel fit and require heavy duty gap filling cements. Please refer to the cement and primer page for correct solvents.

#### UPVC PIPE

	Code	Size (NB)		Code	Size (NB)
<b>UPVC Pressure Pipe PN6 Class B SOE NZS</b>	PU800/050B/S PU800/080B/S PU800/100B/S PU800/150B/S	50mm 80mm 100mm 150mm	<b>UPVC Pressure Pipe PN12 Class D SOE NZS</b>	PU800/032D/S PU800/040D/S PU800/050D/S PU800/065D/S PU800/080D/S PU800/100D/S PU800/150D/S	32mm 40mm 50mm 65mm 80mm 100mm 150mm
<b>UPVC Pressure Pipe PN9 Class C SOE NZS</b>	PU800/050C/S PU800/065C/S PU800/080C/S PU800/100C/S PU800/150C/S	50mm 65mm 80mm 100mm 150mm	<b>UPVC Pressure Pipe PN15 Class E SOE NZS</b>	PU800/015E/S PU800/020E/S PU800/025E/S PU800/032E/S PU800/040E/S PU800/050E/S PU800/065E/S PU800/100E/S	15mm 20mm 25mm 32mm 40mm 50mm 65mm 100mm

Note: Pipe Diameters greater than 150mm SOE Pipe are made to order only and require a minimum purchase quantity

Other Pipe Classes and sizes are available on request.  
RRJ Pipe is also available on request.

#### UPVC SOCKETS

	Code	Size (NB)
<b>UPVC Faucet Socket Female Threaded (NZS)</b>	FU806/015 FU806/020 FU806/025 FU806/032 FU806/040 FU806/050 FU806/065 FU806/080 FU806/100	15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm
	BSP Thread	
<b>UPVC Valve Socket MALE Threaded (NZS)</b>	FU813/015 FU813/020 FU813/025 FU813/032 FU813/040 FU813/050 FU813/065 FU813/080 FU813/100	15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm
	BSP Thread	

#### UPVC VALVE SPIGOTS

	Code	Size (NB)
<b>UPVC Valve Spigot Plain (NZS)</b>	FU817/015 FU817/020 FU817/025 FU817/032 FU817/040 FU817/050	15mm 20mm 25mm 32mm 40mm 50mm

#### UPVC COUPLERS

	Code	Size (NB)
<b>UPVC Socket Coupler, Plain (NZS)</b>	FU810/015 FU810/020 FU810/025 FU810/032 FU810/040 FU810/050 FU810/065 FU810/080 FU810/100 FU810/125 FU810/150 FU810/175 FU810/225 FU810/250 FU810/300	15mm 20mm 25mm 32mm 40mm 50mm 65mm 80mm 100mm 125mm 150mm 175mm 225mm 250mm 300mm

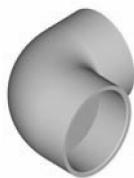
#### UPVC REDUCING SOCKETS

	Code	Size (NB)
<b>UPVC Reducing Socket Plain (NZS)</b>	FU823/020X015 FU823/025X015 FU823/025X020 FU823/032X020 FU823/032X025 FU823/040X020 FU823/040X025 FU823/040X032 FU823/050X025 FU823/050X032 FU823/050X040 FU823/080X050 FU823/100X080 FU823/150X100 FU823/175X150 FU823/200X150 FU823/225X150	20X15mm 25X15mm 25X20mm 32X20mm 32X25mm 40X20mm 40X25mm 40X32mm 50X25mm 50X32mm 50X40mm 80X50mm 100X80mm 150X100mm 175X150mm 200X150mm 225X150mm

# uPVC

## PRESSURE PIPING SYSTEM

UPVC 90° ELBOWS		
	Code	Size (NB)
<b>UPVC Elbow 90° Plain (NZS)</b>	FU801/015/90	15mm
	FU801/020/90	20mm
	FU801/025/90	25mm
	FU801/032/90	32mm
	FU801/040/90	40mm
	FU801/050/90	50mm
	FU801/065/90	65mm
	FU801/080/90	80mm
	FU801/100/90	100mm
	FU801/125/90	125mm
	FU801/150/90	150mm
	FU801/175/90	175mm
	FU801/200/90	200mm
	FU801/225/90	225mm
	FU801/250/90	250mm
	FU801/300/90	300mm



UPVC TEES		
	Code	Size (NB)
<b>UPVC TEE Plain (NZS)</b>	FU804/015	15mm
	FU804/020	20mm
	FU804/025	25mm
	FU804/032	32mm
	FU804/040	40mm
	FU804/050	50mm
	FU804/065	65mm
	FU804/080	80mm
	FU804/100	100mm
	FU804/125	125mm
	FU804/150	150mm
	FU804/175	175mm
	FU804/200	200mm
	FU804/225	225mm
	FU804/250	250mm
	FU804/300	300mm



UPVC 45° ELBOWS		
	Code	Size (NB)
<b>UPVC Elbow 45° Plain (NZS)</b>	FU801/015/45	15mm
	FU801/020/45	20mm
	FU801/025/45	25mm
	FU801/032/45	32mm
	FU801/040/45	40mm
	FU801/050/45	50mm
	FU801/065/45	65mm
	FU801/080/45	80mm
	FU801/100/45	100mm
	FU801/125/45	125mm
	FU801/150/45	150mm
	FU801/175/45	175mm
	FU801/200/45	200mm
	FU801/225/45	225mm
	FU801/250/45	250mm
	FU801/300/45	300mm



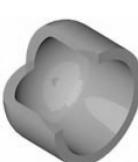
UPVC REDUCING TEES		
	Code	Size (NB)
<b>UPVC Reducing TEE Plain (NZS)</b>	FU805/020X015	20X15mm
	FU805/025X015	25X15mm
	FU805/025X020	25X20mm
	FU805/040X020	40X20mm
	FU805/040X025	40X25mm
	FU805/040X032	40X32mm
	FU805/050X020	50X20mm
	FU805/050X025	50X25mm
	FU805/050X040	50X40mm
	FU805/080X025	80X25mm
	FU805/080X050	80X50mm
	FU805/100X050	100X50mm
	FU805/100X080	100X80mm
	FU805/225X150	225X150mm
	FU805/250X200	250X200mm



UPVC SOCKET UNIONS		
	Code	Size (NB)
<b>UPVC Socket UNION (NZS)</b>	FU811/015	15mm
	FU811/020	20mm
	FU811/025	25mm
	FU811/032	32mm
	FU811/040	40mm
	FU811/050	50mm
	FU811/065	65mm
	FU811/080	80mm
	FU811/100	100mm



UPVC END CAPS		
	Code	Size (NB)
<b>UPVC Cap Plain END (NZS)</b>	FU830/015	15mm
	FU830/020	20mm
	FU830/025	25mm
	FU830/032	32mm
	FU830/040	40mm
	FU830/050	50mm
	FU830/065	65mm
	FU830/080	80mm
	FU830/100	100mm
	FU830/125	125mm
	FU830/150	150mm
	FU830/200	200mm
<b>UPVC Cap Threaded</b>	FU832/015	15mm
	FU832/020	20mm
	FU832/025	25mm
	FU832/032	32mm
	FU832/040	40mm
	FU832/050	50mm
	FU832/080	80mm
	FU832/100	100mm
	FU832/150	150mm



UPVC COMPRESSION COUPLER		
	Code	Size (NB)
<b>UPVC Compression Coupler 150 PSI</b>	FU809/020	20mm
	FU809/025	25mm
	FU809/032	32mm
	FU809/040	40mm
	FU809/050	50mm



# THE SMARTER CHOICE.

## uPVC

### PRESSURE PIPING SYSTEM

#### UPVC PLUGS

	Code	Size (NB)
<b>UPVC Plug Threaded (NZS)</b>	FU837/015	15mm
	FU837/020	20mm
	FU837/025	25mm
	FU837/032	32mm
	FU837/040	40mm
	FU837/050	50mm
	FU837/080	80mm



#### UPVC REDUCING BUSHES

	Code	Size (NB)
<b>PVC FIP BSP Threaded Reducing Bush Parallel</b>	FU818/020X010	20X10mm
	FU818/020X015	20X15mm
	FU818/025X015	25X15mm
	FU818/025X020	25X20mm
	FU818/032X015	32X15mm
	FU818/032X020	32X20mm
	FU818/032X025	32X25mm
	FU818/040X015	40X15mm
	FU818/040X020	40X20mm
	FU818/040X025	40X25mm
	FU818/040X032	40X32mm
	FU818/050X020	50X20mm
	FU818/050X025	50X25mm
	FU818/050X032	50X32mm
	FU818/050X040	50X40mm
	FU818/065X050	65X50mm
	FU818/080X050	80X50mm
	FU818/080X065	80X65mm
	FU818/100X080	100X80mm
<b>UPVC Reducing Bush (NZS)</b>	FU824/020X015	20X15mm
	FU824/025X015	25X15mm
	FU824/025X020	25X20mm
	FU824/032X025	32X25mm
	FU824/040X025	40X25mm
	FU824/040X032	40X32mm
	FU824/050X025	50X25mm
	FU824/050X040	50X40mm
	FU824/065X050	65X50mm
	FU824/080X050	80X50mm
	FU824/080X065	80X65mm
	FU824/100X050	100X50mm
	FU824/100X080	100X80mm
	FU824/125X100	125X100mm
	FU824/150X100	150X100mm
	FU824/150X125	150X125mm
	FU824/175X150	175X150mm
	FU824/200X150	200X150mm
	FU824/200X175	200X175mm
	FU824/225X150	225X150mm
	FU824/225X200	225X200mm
	FU824/250X150	250X150mm
	FU824/250X200	250X200mm
	FU824/250X225	250X225mm
	FU824/300X150	300X150mm
	FU824/300X175	300X175mm
	FU824/300X200	300X200mm
	FU824/300X225	300X225mm
	FU824/300X250	300X250mm



#### PVC ADAPTOR BUSH

	Code	Size (NB)
<b>PVC Imperial/Metric Adaptor Bush</b>	C-837-060160mm	168-160mm



#### PVC SPIGOT HOSE ADAPTORS

	Code	Size (NB)
<b>PVC Spigot Hose Adaptor</b>	FUHOADPTSP/015	15mm
	FUHOADPTSP/020	20mm
	FUHOADPTSP/025	25mm
	FUHOADPTSP/032	32mm
	FUHOADPTSP/040	40mm
	FUHOADPTSP/050	50mm
	FUHOADPTSP/080	80mm

#### UPVC FAUCET 90° ELBOWS

	Code	Size (NB)
<b>UPVC Elbow 90° Faucet (NZS)</b>	FU808/015/90	15mm
	FU808/020/90	20mm
	FU808/025/90	25mm



#### PVC UNIVERSAL VAN STONE FLANGES

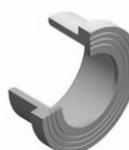
	Code	Size (NB)
<b>PVC Universal Van Stone Flange</b>	FU6254/160	150mm
	FU6254/225	200mm
	FU6254/280	250mm



NOTE: Also refer to our SH80 PVC product list for additional Socket Flange options.

#### UPVC STUB FLANGES

	Code	Size (NB)
<b>UPVC Stub Flange (NZS)</b>	FU826/050	50mm
	FU826/065	65mm
	FU826/080	80mm
	FU826/100	100mm
	FU826/125	125mm
	FU826/150	150mm
	FU826/175	175mm
	FU826/200	200mm
	FU826/225	225mm
	FU826/250	250mm
	FU826/300	300mm
	FU826/375	375mm



# uPVC

## PRESSURE PIPING SYSTEM

### UPVC FAUCET TEES

	Code	Size (NB)
<b>UPVC TEE Faucet (NZS)</b>	FU807/015/90	15mm
	FU807/020/90	20mm
	FU807/025/90	25mm



### UPVC FAUCET REDUCING TEES

	Code	Size (NB)
<b>UPVC TEE Reducing Faucet (NZS)</b>	FU807/020X015	20X15mm
	FU807/025X015	25X15mm
	FU807/025X020	25X20mm

### BACKING RINGS

	Code	Size (NB)
<b>Galvanised Backing Ring, Table E</b>	FABSBRGTE/050	50
	FABSBRGTE/065	65
	FABSBRGTE/080	80
	FABSBRGTE/100	100
	FUPVCBRGTE/125	125
	FUPVCBRGTE/150	150
	FUPVCBRGTE/175	175
	FUPVCBRGTE/200	200
	FUPVCBRGTE/225	225
	FUPVCBRGTE/250	250
	FUPVCBRGTE/300	300
<b>SS 316 Backing Ring, Table E</b>	FABSRSSTE/050	50
	FABSRSSTE/080	80
	FABSRSSTE/100	100



# THE SMARTER CHOICE.

## IPS WELD-ON & +GF+ Tangit

### SOLVENT CEMENTS, PRIMERS & COMPOUNDS

IPS WELD-ON is the industry leader, offering the most complete line of solvent cements commercially available. Each WELD-ON formulation has been developed for a specific application.

Asmuss recommend the use of the Weld-On range of cements with the following piping systems:

PVC Schedule 40 and 80 Piping Systems

- CPVC Schedule 80 Piping Systems
- PVC Metric PN16 piping Systems
- PVC AS/NZS Pressure and Non-Pressure Piping Systems

Please contact our sales team for assistance in selecting the correct solvent cement and primer for your application.

#### Related Documents:

- Asmuss Machines and Tooling Catalogue
- The Science of Solvent Cement

**Asmuss offers Weld ON IPS Solvent Cement Training Courses.**

We recommend all installers using IPS or Tangit Solvent Cement have training before use.

PACK SIZES		
125/118ml	24 units	
250/237ml	24 units	
500/473ml	12 units	
1LT/946ml	12 units	
1 Gal/3780ml	6 units	

PRIMERS		
	Code	Size
<b>IPS P-68 Clear Primer</b>	IPSP-68/125	118ml
	IPSP-68/250	237ml
	IPSP-68/500	473ml
	IPSP-68/1LT	946ml
	IPSP-68/1GAL	3.785L
Clear, fast acting primer for both PVC and CPVC in all sizes.		
<b>IPS P-70 Purple Primer</b>	IPSP-70/250	237ml
	IPSP-70/500	473ml
	IPSP-70/1LT	946ml
	IPSP-70/1GAL	3.785L
Purple, very fast acting and aggressive primer for both PVC and CPVC in all sizes. P-70 primer is recommended when installing CPVC and PVC piping systems for chemical applications.		
<b>IPS P-75 Wet &amp; Dry Primer</b>	IPSP-75/500	473ml
		
*This primer is to be used with IPS 725 cement only.		

711 PVC CEMENT*		
	Code	Size
<b>IPS 711 PVC Heavy Bodied Solvent Cement</b>	IPS711/250	237ml
	IPS711/500	473ml
	IPS711/1LT	946ml
	IPS711/1GAL	3.785L

Grey, heavy bodied, medium setting, cement for all types of PVC. (SCH80, Metric, ASNZS) pipe in larger diameters through to 315mm.  
Cement has gap filling properties, suitable for a parallel fit.

724 CPVC/PVC CEMENT - INDUSTRIAL*		
	Code	Size
<b>IPS 724 PVC &amp; CPVC Heavy Bodied Solvent Cement</b>	IPS724O/500	473ml
	IPS724O/1LT	946ml

Orange, heavy bodied, medium setting, PVC and CPVC cement for chemical applications in sizes through to 300mm. 724 Grey Cement has been phased out and replaced with 724 Orange Cement.

Cement has gap filling properties, suitable for a parallel fit.

719 PVC CEMENT*		
	Code	Size
<b>IPS 719 PVC Extra Heavy Bodied Solvent Cement</b>	IPS719/1LT	946ml
	IPS719/1GAL	3.785L

Grey, extra heavy bodied, slow setting, grey PVC cement suitable for AS/NZS PVC pipe up to 710mm.  
Cement has gap filling properties, suitable for a parallel fit.

# IPS WELD-ON & +GF+ Tangit

## SOLVENT CEMENTS, PRIMERS & COMPOUNDS

### 700 PVC CEMENT

	Code	Size
<b>IPS 700 PVC Regular Bodied Solvent Cement</b>	IPS700/125	118ml
	IPS700/250	237ml
	IPS700/500	473ml
	IPS700/1LT	946ml
	IPS700/1GAL	3.785L



Clear, regular bodied, fast setting, PVC cement for AS/NZS PVC pipe of all classes and pressures through to 100mm.

\*Not suitable for SCH80 Pipe

### 705 PVC CEMENT

	Code	Size
<b>IPS 705 PVC Medium Bodied Solvent Cement</b>	IPS705/125	118ml
	IPS705/250	237ml
	IPS705/500	473ml
	IPS705/1LT	946ml
	IPS705/1GAL	3.785L



Grey, medium bodied, fast setting, PVC cement for both AS/NZS PVC pipe and PVC Schedule 80 pipe through to 100mm.

### JOINTING COMPOUNDS

	Code	Size
<b>IPS White Seal PTFE Pipe Jointing Compound</b>	IPSWSEAL/125	118ml
	IPSWSEAL/250	237ml
	IPSWSEAL/500	473ml



IPS White Seal is a white grit free, extreme duty pipe joint compound with a special blend of homogenized Teflon® particles and non-toxic oils. Not for fluorine, molten metals or oxygen systems.

#### PTFE Thread Tape



THT/012 12mm

### SPECIAL APPLICATIONS

	Code	Size
<b>IPS 725 Wet &amp; Dry PVC Solvent Cement</b>	IPS725/500	473ml
<b>IPS 735 Wet 'N Fast PVC Extremely Fast Setting Solvent Cement</b>	IPS735/125	118ml
	IPS735/250	237ml
	IPS735/500	473ml
	IPS735/1LT	946ml
	IPS735/1GAL	3.785L



Blue, medium bodied, extremely fast setting, blue PVC cement for AS/NZS PVC pipe of all classes and pressures through to 100mm, when quick line pressurisation is required.

#### IPS 747 Pool & Spa Cement



IPS747/500 473ml

#### Weld-On® 810™ (A & B) Kit



IPS180/4OZ 4oz

IPS180/500 473ml

Two-component, high strength, low VOC reactive adhesive. Product can withstand very high pressure and is high impact resistant. Great for repairing cracks or leaky pipe valves and fittings. It has excellent gap-filling property which is ideal for fabricating fittings and joining saddles to pipe. Also good for bonding large diameter PVC & CPVC pipe and fittings.

### TANGIT CEMENT & PRIMER

	Code	Size
<b>Tangit Solvent Cement</b>	799298001	250gm
	799298003	1L
<b>Tangit ABS / CPVC / PVC Cleaner</b>	799298010	1L
<b>Tangit PVC / CPVC DTX Special Cement</b>	799298031	500ml

# THE SMARTER CHOICE.

## IPS WELD-ON & +GF+ Tangit

### SOLVENT CEMENTS, PRIMERS & COMPOUNDS

#### TANGIT/DTX/DYTEX ACCESSORIES

	Code	Size
<b>Round Brush</b> 	799299001 799299002	6 - 10mm 12 - 32mm
<b>Flat Brush</b> 	799299003 799299004	40 - 63mm 75- 225mm
<b>Tangit ABS/CPVC/PVC Solvent Cement Cap</b> 	799298028	

#### TANGIT RAPID ACCESSORIES

	Code	Size
<b>Tangit Rapid Dispenser Gun 50ml</b> 	799302011	16 - 140mm
<b>Tangit Rapid Dispenser Gun 400ml</b> 	799202013	110 - 400mm
<b>Tangit Rapid Plastic Brush</b>	799302021 799302022	¾" 1"
<b>Tangit Rapid Mixers 50 ml</b> 	799302032 799302032/S	x30 Single
<b>Tangit Folding Ruler with Insertion Depth</b> 	799302036	16-400mm

#### TANGIT RAPID

	Code	Size
<b>Tangit Rapid 50ml Kit ( 16-140mm )</b>  6 cartridges, 12 mixers and 2 plastic brushes	799302043	50ml
<b>Tangit Rapid 400ml Kit ( 110-400mm )</b>  6 cartridges, 12 mixers and 2 plastic brushes	799302007	400ml

#### ACCESSORIES

	Code	Size
<b>Weld-On Roller</b>	IPS6020 IPS7020	4" 7"
<b>Cap Dauber To Suit Pipe PT</b>	IPSDP-75 IPSDP-150	¾-1½" 1½ - 3"
<b>Cap Dauber To Suit Pipe QT</b>	IPSDQ-75 IPSDQ-150	¾-1½" 1½ - 3"
<b>Super Dauber</b>	IPSSB-75 IPSSB-150	¾ - 1½" 1½ - 3"
<b>Super Swab</b>	IPSSS-Q/G	4 - 8"

#### TOOLS RANGE

	Code	Size
<b>Pipe Cutter</b>	RITMOCUTTER/063 RITMOCUTTER/140 RITMOCUTTER/160 RITMOCUTTER/315	6 - 63mm 50 - 140mm 100 - 160mm 180 - 315mm
<b>Pipe fitting Puller</b>	IPSP-0412	4-12"
<b>Bevellers</b>	RITMOSME1 RITMOSME2PLUS	25 - 160mm 40 - 315mm
<b>Deburring Tool</b>	DEB-2	½ - 2"

Refer to the Asmuss Machines & Tooling catalogue for more information.

# PE100 METRIC



## ELECTROFUSION & SPIGOT PIPING SYSTEMS

### Quality and Standards

Asmuss is a leading distributor of polyethylene (PE) piping systems in New Zealand and carries a comprehensive range of fittings and equipment, backed by technical advice and service. The fittings listed comply with internationally accepted standards including AS/NZS Standard 4129:2020, fittings for PE pipes for pressure applications. Specifying authorities are advised to require compliance with product standards to ensure the integrity of permanent works.

Asmuss recommends that the installation of all PE pipe fittings only be undertaken by suitably qualified and experienced operators.

### Related Documents

- Simona Swept Bends Flyer
- Machines & Tooling Catalogue

### SDR 11 ELECTROFUSION COUPLERS

	Code	Size (OD) mm	SDR
Coupler <b>PN16 SDR 11</b>	FPEHC/020	20	7-11
	FPEHC/025	25	7-11
	FPEHC/032	32	7-11
	FPEHC/040	40	7-11
	FPEHC/050	50	7-11
	FPEHC/063	63	7-11
	FPEHC/075	75	7-17
	FPEHC/090	90	7-17
	FPEHC/110	110	7-17
	FPEHC/125	125	7-17
	FPEHC/140	140	7-17
	FPEHC/160	160	7-17
	FPEHC/180	180	7-17
	FPEHC/200	200	7-17
	FPEHC/225	225	7-17
	FPEHC/250	250	7-21
	FPEHC/280	280	7-17
	FPEHC/315	315	7-26
	FPEHC/355	355	7-17
	FPEHC/400	400	7-26
	FPEHC/450	450	7-17
	FPEHC/500	500	7-17
	FPEHC/560	560	7-33
	FPEHC/630	630	7-41
	FPEHC/710	710	7-17
	FPEHC/800	800	7-17
	FPEHC/900	900	7-17
	FPEHC/1000	1000	7-17

\*Larger sizes available on request

### SDR 7.4 ELECTROFUSION COUPLERS

	Code	Size (OD) mm	SDR
Coupler <b>PN25 SDR 7.4</b>	FPE7.4HC/050	50	7-11
	FPE7.4HC/063	63	7-11
	FPE7.4HC/075	75	7-11
	FPE7.4HC/090	90	7-11
	FPE7.4HC/110	110	7-11
	FPE7.4HC/125	125	7-11
	FPE7.4HC/180	180	7-11
	FPE7.4HC/200	200	7-11
	FPE7.4HC/225	225	7-11
	FPE7.4HC/250	250	7-11
	FPE7.4HC/280	280	7-11
	FPE7.4HC/315	315	7-11

\*Larger sizes available on request

### SDR 17 ELECTROFUSION COUPLERS

	Code	Size (OD) mm	SDR
Coupler <b>PN10 SDR 17</b>	FPE17HC/063	63	11-26
	FPE17HC/075	75	11-17
	FPE17HC/090	90	11-26
	FPE17HC/110	110	11-33
	FPE17HC/125	125	11-33
	FPE17HC/140	140	11-33
	FPE17HC/160	160	11-33
	FPE17HC/180	180	11-33
	FPE17HC/200	200	11-33
	FPE17HC/225	225	11-33
	FPE17HC/250	250	11-33
	FPE17HC/280	280	11-33
	FPE17HC/315	315	11-33
	FPE17HC/355	355	11-41
	FPE17HC/400	400	11-41
	FPE17HC/450	450	11-41
	FPE17HC/500	500	11-33
	FPE17HC/560	560	11-41
	FPE17HC/630	630	11-33
	FPE17HC/710	710	11-33
	FPE17HC/800	800	11-41
	FPE17HC/900	900	11-41
	FPE17HC/1000	1000	11-33
	FPE17HC/1200	1200	11-33

\*Larger sizes available on request

### IPA WIPES

	Code	Size
IPA Wipes <b>92-97% IPA</b>	IPAWIPES	100 per tub

### IPA LIQUID

	Code	Size
IPA Cleaner <b>100% IPA</b>	IPA/1LT	1 Litre

# THE SMARTER CHOICE.

## PE100 METRIC



### ELECTROFUSION & SPIGOT PIPING SYSTEMS

#### ELECTROFUSION TEES

	Code	Size (OD) mm	SDR
<b>90° Equal Tee PN16 SDR 11</b>	FPEHCT/020	20	7-11
	FPEHCT/025	25	7-11
	FPEHCT/032	32	7-11
	FPEHCT/040	40	7-13.6
	FPEHCT/050	50	7-13.6
	FPEHCT/063	63	7-13.6
	FPEHCT/075	75	7-13.6
	FPEHCT/090	90	7-21
	FPEHCT/110	110	7-21
	FPEHCT/125	125	7-17
	FPEHCT/160	160	7-21
	FPEHCT/180	180	7-17
	FPEHCT/200	200	7-17
	FPEHCT/225	225	7-17
	FPEHCT/250	250	7-17



#### ELECTROFUSION REDUCING TEES

	Code	Size (OD) mm	SDR
<b>90° Reducing Tee PN16 SDR 11</b>	FPEHCRT/050X040	50x40	7-21
	FPEHCRT/063X050	63x50	7-21
	FPEHCRT/090X063	90x63	7-21
	FPEHCRT/110X063	110x63	7-21
	FPEHCRT/110X090	110x90	7-21
	FPEHCRT/125X090	125x90	7-21
	FPEHCRT/125X110	125x110	7-21
	FPEHCRT/160X090	160x90	7-21
	FPEHCRT/160X110	160x110	7-21
	FPEHCRT/160X125	160x125	7-21
	FPEHCRT/180X090	180x90	7-17
	FPEHCRT/180X125	180x125	7-17
	FPEHCRT/200X090	200x90	7-17
	FPEHCRT/200X110	200x110	7-17
	FPEHCRT/225X090	225x90	7-17
	FPEHCRT/225X110	225x110	7-17
	FPEHCRT/250X090	250x90	7-17
	FPEHCRT/250X110	250x110	7-17



#### POLYVALVES

	Code	Size (OD) mm
<b>Full Bore Polyvalves</b>	VPEHFB/025	25mm
	VPEHFB/032	32mm
	VPEHFB/050	50mm
	VPEHFB/063	63mm
	VPEHFB/090	90mm
	VPEHFB/110	110mm
<b>Reduced Bore Polyvalves</b>	VPEH/125	125mm
	VPEH/160	160mm



#### ELECTROFUSION END CAPS

	Code	Size (OD) mm	SDR
<b>END CAP Coupler PN16 SDR 11</b>	FPEHCCAP/020	20	7-11
	FPEHCCAP/025	25	7-11
	FPEHCCAP/032	32	7-11
	FPEHCCAP/040	40	7-11
	FPEHCCAP/050	50	7-11
	FPEHCCAP/063	63	7-11
	FPEHCCAP/075	75	7-11
	FPEHCCAP/090	90	7-17
	FPEHCCAP/110	110	7-17
	FPEHCCAP/125	125	7-17
	FPEHCCAP/160	160	7-17
	FPEHCCAP/180	180	7-17
	FPEHCCAP/200	200	7-17
	FPEHCCAP/225	225	7-17
	FPEHCCAP/250	250	7-17
	FPEHCCAP/280	280	7-17
	FPEHCCAP/315	315	7-17



#### ELECTROFUSION REDUCING COUPLERS

	Code	Size (OD) mm	SDR
<b>Reducing Coupler PN16 SDR 11</b>	FPEHCR/025X020	25 x 20	7-11
	FPEHCR/032X020	32 x 20	7-11
	FPEHCR/032X025	32 x 25	7-11
	FPEHCR/040X020	40 x 20	7-11
	FPEHCR/040X032	40 x 32	7-11
	FPEHCR/050X032	50 x 32	7-11
	FPEHCR/050X040	50 x 40	7-11
	FPEHCR/063X032	63 x 32	7-11
	FPEHCR/063X040	63 x 40	7-11
	FPEHCR/063X050	63 x 50	7-11
	FPEHCR/075X063	75 x 63	7-11
	FPEHCR/090X050	90 x 50	7-17
	FPEHCR/090X063	90 x 63	7-17
	FPEHCR/090X075	90 x 75	7-17
	FPEHCR/110X063	110 x 63	7-17
	FPEHCR/110X090	110 x 90	7-17
	FPEHCR/125X090	125 x 90	7-17
	FPEHCR/125X110	125 x 110	7-17
	FPEHCR/160X090	160 x 90	7-17
	FPEHCR/160X110	160 x 110	7-17
	FPEHCR/160X125	160 x 125	7-17
	FPEHCR/180X125	180 x 125	7-17



#### ELECTROFUSION FLEX RESTRAINTS

	Code	Size (OD) mm
<b>Flex Restraint</b>	FPEHCFLEX	160-1600



\*Special tool required for installation

# PE100 METRIC



## ELECTROFUSION & SPIGOT PIPING SYSTEMS

### ELECTROFUSION 90° ELBOWS

	Code	Size (OD) mm	SDR
<b>90° Elbow PN16 SDR 11</b>	FPEHCEL90/020	20	7-11
	FPEHCEL90/025	25	7-11
	FPEHCEL90/032	32	7-11
	FPEHCEL90/040	40	7-17
	FPEHCEL90/050	50	7-17
	FPEHCEL90/063	63	7-17
	FPEHCEL90/075	75	7-17
	FPEHCEL90/090	90	7-17
	FPEHCEL90/110	110	7-17
	FPEHCEL90/125	125	7-17
	FPEHCEL90/140	140	7-17
	FPEHCEL90/160	160	7-17
	FPEHCEL90/180	180	7-17
	FPEHCEL90/200	200	7-17
	FPEHCEL90/225	225	7-17
	FPEHCEL90/250	250	7-17

### ELECTROFUSION 45° ELBOWS

	Code	Size (OD) mm	SDR
<b>45° Elbow PN16 SDR 11</b>	FPEHCEL45/032	32	7-11
	FPEHCEL45/040	40	7-17
	FPEHCEL45/050	50	7-17
	FPEHCEL45/063	63	7-17
	FPEHCEL45/075	75	7-17
	FPEHCEL45/090	90	7-17
	FPEHCEL45/110	110	7-17
	FPEHCEL45/125	125	7-17
	FPEHCEL45/140	140	7-17
	FPEHCEL45/160	160	7-17
	FPEHCEL45/180	180	7-17
	FPEHCEL45/200	200	7-17
	FPEHCEL45/225	225	7-17
	FPEHCEL45/250	250	7-17

### ELECTROFUSION 22° ELBOWS

	Code	Size (OD) mm	SDR
<b>22° Elbow PN16 SDR 11</b>	FPEHCEL22/090	90	7-17
	FPEHCEL22/110	110	7-17
	FPEHCEL22/125	125	7-17
	FPEHCEL22/160	160	7-17
	FPEHCEL22/180	180	7-17

### ELECTROFUSION ADJUSTABLE ELBOWS

	Code	Size (OD) mm	SDR
<b>Adjustable Elbow 2 Couplers PN16 SDR 11</b>	FPEHCELADJ/090	90	7-17
	FPEHCELADJ/110	110	7-17
	FPEHCELADJ/125	125	7-17
	FPEHCELADJ/160	160	7-21
	FPEHCELADJ/180	180	7-17
	FPEHCELADJ/200	200	7-17
	FPEHCELADJ/225	225	7-17
	FPEHCELADJ/250	250	7-17



Suitable for welding at any angle of ±12° per side

### Adjustable Elbow 1 Sided Coupler/Spigot PN16 SDR 11



Suitable for welding at any angle of ±12° one side

### PE TO STEEL ROLL GROOVE ADAPTORS

	Code	Size (OD) mm	SDR
<b>PE TO Steel Roll Groove Adaptor PN16 SDR 11</b>	FPEHRGA/125X4	125 x 4"	7-17
	FPEHRGA/180X6	10 x 6"	7-17



# THE SMARTER CHOICE.

## PE100 METRIC



### SADDLES

#### ELECTROFUSION TAPPING SADDLES

	Code	Size (OD) mm	SDR
<b>Tapping Saddle Underclamp PN16 SDR 11</b>	FPEHUTS/040X020	40 x 20	7-11
	FPEHUTS/040X032	40 x 32	7-11
	FPEHUTS/050X020	50 x 20	7-11
	FPEHUTS/050X025	50 x 25	7-11
	FPEHUTS/050X032	50 x 32	7-11
	FPEHUTS/063X020	63 x 20	7-11
	FPEHUTS/063X025	63 x 25	7-11
	FPEHUTS/063X032	63 x 32	7-11
	FPEHUTS/063X040	63 x 40	7-11
	FPEHUTS/063X050	63 x 50	7-11
	FPEHUTS/063X063	63 x 63	7-11
	FPEHUTS/075X020	75 x 20	7-11
	FPEHUTS/075X032	75 x 32	7-11
	FPEHUTS/075X040	75 x 40	7-11
	FPEHUTS/075X050	75 x 50	7-11
	FPEHUTS/075X063	75 x 63	7-11
	FPEHUTS/090X020	90 x 20	7-17
	FPEHUTS/090X032	90 x 32	7-17
	FPEHUTS/090X040	90 x 40	7-17
	FPEHUTS/090X050	90 x 50	7-17
	FPEHUTS/090X063	90 x 63	7-17
	FPEHUTS/110X020	110 x 20	7-17
	FPEHUTS/110X032	110 x 32	7-17
	FPEHUTS/110X040	110 x 40	7-17
	FPEHUTS/110X050	110 x 50	7-17
	FPEHUTS/110X063	110 x 63	7-17
	FPEHUTS/125X020	125 x 20	7-17
	FPEHUTS/125X025	125 x 25	7-17
	FPEHUTS/125X032	125 x 32	7-17
	FPEHUTS/125X040	125 x 40	7-17
	FPEHUTS/125X050	125 x 50	7-17
	FPEHUTS/125X063	125 x 63	7-17
	FPEHUTS/140X032	140 x 32	7-17
	FPEHUTS/140X040	140 x 40	7-17
	FPEHUTS/140X050	140 x 50	7-17
	FPEHUTS/140X063	140 x 63	7-17
	FPEHUTS/160X020	160 x 20	7-17
	FPEHUTS/160X032	160 x 32	7-17
	FPEHUTS/160X040	160 x 40	7-17
	FPEHUTS/160X050	160 x 50	7-17
	FPEHUTS/160X063	160 x 63	7-17
	FPEHUTS/180X020	180 x 20	7-17
	FPEHUTS/180X032	180 x 32	7-17
	FPEHUTS/180X040	180 x 40	7-17
	FPEHUTS/180X050	180 x 50	7-17
	FPEHUTS/180X063	180 x 63	7-17
	FPEHUTS/200X020	200 x 20	7-17
	FPEHUTS/200X032	200 x 32	7-17
	FPEHUTS/200X040	200 x 40	7-17
	FPEHUTS/200X050	200 x 50	7-17
	FPEHUTS/200X063	200 x 63	7-17
	FPEHUTS/225X020	225 x 20	7-17
	FPEHUTS/225X032	225 x 32	7-17
	FPEHUTS/225X040	225 x 40	7-17
	FPEHUTS/225X050	225 x 50	7-17
	FPEHUTS/225X063	225 x 63	7-17
	FPEHUTS/250X020	250 x 20	7-17
	FPEHUTS/250X032	250 x 32	7-17
	FPEHUTS/250X040	250 x 40	7-17
	FPEHUTS/250X050	250 x 50	7-17
	FPEHUTS/250X063	250 x 63	7-17



#### ELECTROFUSION BRANCH SADDLES

	Code	Size (OD) mm	SDR
<b>Branch Saddle Underclamp Spigot Off Take PN16 SDR 11</b>	FPEHUBS/063X032	63 x 32	7-11
	FPEHUBS/063X040	63 x 40	7-11
	FPEHUBS/063X050	63 x 50	7-11
	FPEHUBS/063X063	63 x 63	7-11
	FPEHUBS/075X032	75 x 32	7-11
	FPEHUBS/075X040	75 x 40	7-11
	FPEHUBS/075X050	75 x 50	7-11
	FPEHUBS/075X063	75 x 63	7-11
	FPEHUBS/090X032	90 x 32	7-17
	FPEHUBS/090X040	90 x 40	7-17
	FPEHUBS/090X050	90 x 50	7-17
	FPEHUBS/090X063	90 x 63	7-17
	FPEHUBS/110X032	110 x 32	7-17
	FPEHUBS/110X040	110 x 40	7-17
	FPEHUBS/110X050	110 x 50	7-17
	FPEHUBS/110X063	110 x 63	7-17
	FPEHUBS/125X032	125 x 32	7-17
	FPEHUBS/125X040	125 x 40	7-17
	FPEHUBS/125X050	125 x 50	7-17
	FPEHUBS/125X063	125 x 63	7-17
	FPEHUBS/140X040	140 x 40	7-17
	FPEHUBS/140X063	140 x 63	7-17
	FPEHUBS/140X090	140 x 90	7-17
	FPEHUBS/160X032	160 x 32	7-17
	FPEHUBS/160X040	160 x 40	7-17
	FPEHUBS/160X050	160 x 50	7-17
	FPEHUBS/160X063	160 x 63	7-17
	FPEHUBS/160X090	160 x 90	7-17
	FPEHUBS/160X110	160 x 110	7-17
	FPEHUBS/180X032	180 x 32	7-17
	FPEHUBS/180X040	180 x 40	7-17
	FPEHUBS/180X050	180 x 50	7-17
	FPEHUBS/180X063	180 x 63	7-17
	FPEHUBS/180X090	180 x 90	7-17
	FPEHUBS/180X110	180 x 110	7-17
	FPEHUBS/200X063	200 x 63	7-17
	FPEHUBS/200X090	200 x 90	7-17
	FPEHUBS/200X110	200 x 110	7-17
	FPEHUBS/225X063	225 x 63	7-17
	FPEHUBS/225X090	225 x 90	7-17
	FPEHUBS/225X110	225 x 110	7-17
	FPEHUBS/250X063	250 x 63	7-17
	FPEHUBS/250X090	250 x 90	7-17
	FPEHUBS/250X110	250 x 110	7-17
	FPEHUBS/280X090	280 x 90	7-17
	FPEHUBS/315X090	315 x 90	7-17
<b>Branch Saddle Underclamp BSP Off Take PN16 SDR 11</b>	FPEHUBSBSP/063X11/4	63 x 1 1/4"	7-17
	FPEHUBSBSP/075X11/4	75 x 1 1/4"	7-17
	FPEHUBSBSP/090X2	90 x 2"	7-17
	FPEHUBSBSP/110X2	110 x 2"	7-17
	FPEHUBSBSP/125X2	125 x 2"	7-17
	FPEHUBSBSP/140X2	140 x 2"	7-17
	FPEHUBSBSP/160X2	160 x 2"	7-17
	FPEHUBSBSP/180X2	180 x 2"	7-17
	FPEHUBSBSP/200X2	200 x 2"	7-17
	FPEHUBSBSP/225X2	225 x 2"	7-17
	FPEHUBSBSP/250X2	250 x 2"	7-17



# PE100 METRIC



## SADDLES

### COMPRESSION TAPPING SADDLES

	Code	Size (OD) mm
Tapper Swivel Tee Metric PE	PLTAPSAD/063X025	63 x 25
	PLTAPSAD/125X025	125 x 25
	PLTAPSAD/180X025	180 x 25



Refer to our Compression Fittings catalogue for other sizes.

### TAPPING SADDLE TOOLS

	Code
Allen Key for Tapping Saddle	PLASSONKEY/12MM

### TOPLOAD BRANCH SADDLES\*

	Code	Size (OD) mm	SDR
<b>Topload Branch Saddle, Spigot Off Take, SDR11</b>	FPEHTLBS/280-400X090	280-400x90	7-17
	FPEHTLBS/280-400X110	280-400x110	7-17
	FPEHTLBS/280-400X125	280-400x125	7-17
	FPEHTLBS/280-400X160	280-400x160	7-17
	FPEHTLBS/315-355X250	315-355x250	7-17
	FPEHTLBS/400X250	400x250	7-17
	FPEHTLBS/450-800X090	450-800x90	7-26
	FPEHTLBS/450-800X110	450-800x110	7-26
	FPEHTLBS/450-800X125	450-800x125	7-26
	FPEHTLBS/450-800X160	450-800x160	7-26
	FPEHTLBS/450X180	450x180	11-26
	FPEHTLBS/450X250	450x250	11-26
	FPEHTLBS/450X315	450x315	11-26
	FPEHTLBS/500-630X250	500-630x250	7-26
	FPEHTLBS/500X315	500x315	7-26
	FPEHTLBS/560X315	560x315	7-26
	FPEHTLBS/560X400	560x400	7-26
	FPEHTLBS/630X315	630x315	7-26
	FPEHTLBS/630X355	630x355	7-26
	FPEHTLBS/630X400	630x400	7-26
	FPEHTLBS/710X250	710x250	11-26
	FPEHTLBS/710X315	710x315	11-26
	FPEHTLBS/710X400	710x400	11-26
	FPEHTLBS/800X250	800x250	11-26
	FPEHTLBS/800X315	800x315	7-26
	FPEHTLBS/800X400	800x400	11-26
	FPEHTLBS/900X315	900x315	11-26
<b>Topload Branch Saddle, BSP Brass Female Off Take, SDR11</b>	FPEHTLBTS/250-400X2	250-400x2"	7-17
	FPEHTLBTS/450-800X2	450-800x2"	7-17



Rated to PN16

\*Topload tool & cutter required for installation.

### TOPLOAD SADDLES\*

	Code	Size (OD) mm	SDR
<b>Topload Saddle, Fixed 225mm 90° Off Take</b>	FPEHWWTLBS/315-450X225	315-450x225	11-33
	FPEHWWTLBS/450-630X225	450-630x225	11-33
	FPEHWWTLBS/630-800X225	630-800x225	11-33
<b>Topload Saddle, Fixed 110mm 45° Off Take</b>	FPEHWYEBS/160-200X110	160-200x110	11-26
	FPEHWYEBS/225-315X110	225-315x110	11-26
<b>Topload Saddle, Adjustable 160mm Off Take</b>	FPEHWWBSAD/225-260X160	225-250x160	11-26
	FPEHWWBSAD/280-315X160	280-315x160	11-26
	FPEHWWBSAD/355-560X160	355-560x160	11-26
<b>Topload Repair Saddle</b>	FPEHCTRLS/250-900		
<b>Topload Sensor Saddle, SS 316 BSP</b>	FPEHTLSS/110-400X1/2	110-400x1/2"	11
	FPEHTLSS/110-400X3/4	110-400x3/4"	11
	FPEHTLSS/110-400X1	10-400x1"	11
	FPEHTLSS/450-1200X1/2	450-1200x1/2"	11
	FPEHTLSS/450-1200X3/4	450-1200x3/4"	11
	FPEHTLSS/450-1200X1	450-1200x1"	11

\*Topload tool & cutter required for installation.

### TOPLOAD TOOLS AND CUTTERS

#### NOTE:

Approved top loading tools and cutters must be used when installing Saddles. These can be purchased or hired from Asmuss. Please contact our sales team for further information.

# THE SMARTER CHOICE.

**PE100 METRIC**

 **PLASSON®**

## ELECTROFUSION TRANSITION FITTINGS

### ELECTROFUSION BRASS TRANSITION COUPLINGS

	Code	Size (OD) mm x in	SDR
<b>Transition Coupling Male Brass</b>	FPEHMB/020X1/2	20 x ½	7-11
	FPEHMB/025X3/4	25 x ¾	7-11
	FPEHMB/032X1	32 x 1	7-11
	FPEHMB/032X11/4	32 x 1¼	7-11
	FPEHMB/040X1	40 x 1	7-11
	FPEHMB/040X11/4	40 x 1¼	7-11
	FPEHMB/040X11/2	40 x 1½	7-11
	FPEHMB/050X11/2	50 x 1½	7-11
	FPEHMB/050X2	50 x 2	7-11
	FPEHMB/063X11/4	63 x 1¼	7-11
	FPEHMB/063X11/2	63 x 1½	7-11
	FPEHMB/063X2	63 x 2	7-11
	FPEHMB/075X2	75 x 2	7-17
	FPEHMB/075X21/2	75 x 2½	7-17
<b>Transition Coupling Female Brass BSP OUTLET PN16 SDR 11</b>	FPEHFBA/020X1/2	20 x ½	7-11
	FPEHFBA/025X3/4	25 x ¾	7-11
	FPEHFBA/032X1	32 x 1	7-11
	FPEHFBA/040X11/4	40 x 1¼	7-11
	FPEHFBA/050X11/2	50 x 1½	7-11
	FPEHFBA/050X2	50 x 2	7-11
	FPEHFBA/063X11/2	63 x 1½	7-11
	FPEHFBA/063X2	63 x 2	7-11

### ELECTROFUSION STAINLESS STEEL TRANSITION ADAPTORS

	Code	Size (OD) mm x in	SDR
<b>Transition Coupling Male St. Steel BSP Outlet PN16 SDR 11</b>	FPEHMSA/040X11/4	40 x 1¼	7-11
	FPEHMSA/050X11/2	50 x 1½	7-11
	FPEHMSA/063X11/2	63 x 1½	7-11
	FPEHMSA/063X2	63 x 2	7-11

### SPIGOT BRASS TRANSITION ADAPTORS

	Code	Size (OD) mm	SDR
<b>Transition Adaptor Male Brass Spigot</b>	FPEHMBASP/020X1/2	20 x ½	7-11
	FPEHMBASP/025X3/4	25 x ¾	7-11
	FPEHMBASP/032X1	32 x 1	7-11
	FPEHMBASP/032X1/2	32 x ½	7-11
	FPEHMBASP/032X11/2	32 x 1½	7-11
	FPEHMBASP/032X11/4	32 x 1¼	7-11
	FPEHMBASP/032X3/4	32 x ¾	7-11
	FPEHMBASP/040X1	40 x 1	7-11
	FPEHMBASP/040X11/4	40 x 1¼	7-11
	FPEHMBASP/040X11/2	40 x 1½	7-11
	FPEHMBASP/040X2	40 x 2	7-11
	FPEHMBASP/050X1	50 x 1	7-11
	FPEHMBASP/050X11/4	50 x 1¼	7-11
	FPEHMBASP/050X11/2	50 x 1½	7-11
<b>Transition Adaptor Female Brass Spigot</b>	FPEHFBASP/020X1/2	20 x ½	7-11
	FPEHFBASP/025X3/4	25 x ¾	7-11
	FPEHFBASP/032X3/4	32 x ¾	7-11
	FPEHFBASP/032X1	32 x 1	7-11
	FPEHFBASP/032X11/2	32 x 1½	7-11
	FPEHFBASP/063X11/4	63 x 1¼	7-11
	FPEHFBASP/063X11/2	63 x 1½	7-11
	FPEHFBASP/063X2	63 x 2	7-11
	FPEHFBASP/075X2	75 x 2	7-11
	FPEHFBASP/075X2/12	75 x 2½	7-11
	FPEHFBASP/050X2	50 x 2	7-11
	FPEHFBASP/063X11/2	63 x 1½	7-11
	FPEHFBASP/063X2	63 x 2	7-11

### SPIGOT PE TRANSITION ADAPTOR

	Code	Size (OD) mm x in	SDR
<b>Spigot PE Transition Adaptor PN16 SDR 11</b>	FPEHNIPTLS/025X3/4	25 x ¾"	7-11
	FPEHNIPTLS/032X1	32 x 1"	7-11
	FPEHNIPTLS/040X1	40 x 1"	7-11
	FPEHNIPTLS/040X11/4	40 x 1¼"	7-11
	FPEHNIPTLS/040X11/2	40 x 1½"	7-11
	FPEHNIPTLS/050X11/2	50 x 1½"	7-11
	FPEHNIPTLS/063X11/2	63 x 1½"	7-11
	FPEHNIPTLS/063X2	63 x 2"	7-11

# PE100 METRIC

## SDR11 SPIGOT FITTINGS

### LONG SPIGOT STUB FLANGES

	Code	Size (OD) mm
<b>PE100 SDR11 Long Spigot Stub Flange</b>	FPEHSF/025	25mm
	FPEHSF/032	32mm
	FPEHSF/040	40mm
	FPEHSF/050	50mm
	FPEHSF/063	63mm
	FPEHSF/075	75mm
	FPEHSF/090	90mm
	FPEHSF/110	110mm
	FPEHSF/125	125mm
	FPEHSF/140	140mm
	FPEHSF/160	160mm
	FPEHSF/180	180mm
	FPEHSF/200	200mm
	FPEHSF/225	225mm
	FPEHSF/250	250mm
	FPEHSF/280	280mm
	FPEHSF/315	315mm
	FPEHSF/355	355mm
	FPEHSF/400	400mm
	FPEHSF/450	450mm
	FPEHSF/500	500mm
	FPEHSF/560	560mm
	FPEHSF/630	630mm



### FULL BORE FULL FACE FLANGES

	Code	Size (OD) mm
<b>Full Faced PE100 SDR11 Slim Flange Assembly Complete with FBE 4087 PN16 Backing Ring</b>	SlimFlangeFFN/250X200	250 X 200mm
	SlimFlangeFFN/315X250	315 X 250mm
	SlimFlangeFFN/355X300	355 X 300mm



<b>Full Faced PE100 SDR11 Slim Flange Assembly Complete with SS 316 4087 PN16 Backing Ring</b>	SlimFlangeFFN/250X200	250 X 200mm
	SlimFlangeFFN/315X250	315 X 250mm
	SlimFlangeFFN/355X300	355 X 300mm



# SIMONA

### LONG SPIGOT 90° ELBOWS

	Code	Size (OD) mm
<b>PE100 SDR11 Long Spigot Elbow 90 °</b>	FPEHEL90/025	25mm
	FPEHEL90/032	32mm
	FPEHEL90/040	40mm
	FPEHEL90/050	50mm
	FPEHEL90/063	63mm
	FPEHEL90/075	75mm
	FPEHEL90/090	90mm
	FPEHEL90/110	110mm
	FPEHEL90/125	125mm
	FPEHEL90/140	140mm
	FPEHEL90/160	160mm
	FPEHEL90/180	180mm
	FPEHEL90/200	200mm
	FPEHEL90/225	225mm
	FPEHEL90/250	250mm
	FPEHEL90/280	280mm
	FPEHEL90/315	315mm
	FPEHEL90/355	355mm
	FPEHEL90/400	400mm
	FPEHEL90/450	450mm
	FPEHEL90/500	500mm

### LONG SPIGOT 45° ELBOWS

	Code	Size (OD) mm
<b>PE100 SDR11 Long Spigot Elbow 45 °</b>	FPEHEL45/025	25mm
	FPEHEL45/032	32mm
	FPEHEL45/040	40mm
	FPEHEL45/050	50mm
	FPEHEL45/063	63mm
	FPEHEL45/075	75mm
	FPEHEL45/090	90mm
	FPEHEL45/110	110mm
	FPEHEL45/125	125mm
	FPEHEL45/140	140mm
	FPEHEL45/160	160mm
	FPEHEL45/180	180mm
	FPEHEL45/200	200mm
	FPEHEL45/225	225mm
	FPEHEL45/250	250mm
	FPEHEL45/280	280mm
	FPEHEL45/315	315mm
	FPEHEL45/355	355mm
	FPEHEL45/400	400mm
	FPEHEL45/450	450mm
	FPEHEL45/500	500mm

### REDUCED BORE FLANGES

	Code	Size (OD) mm
<b>PE100 SDR11 Reduced Bore Flange</b>	P5316.J7.250200	250 X 200mm
	P5316.J7.315250	315 X 250mm
	P5316.J7.315300	315 x 300mm
	P5316.J7.450375	450 X 375mm

Standard - FBE Coated 4087 b/Ring. Long Spigot. Multiple SDR ratings, Backing Ring material and drillings available

# THE SMARTER CHOICE.

## PE100 METRIC

### SDR11 SPIGOT FITTINGS

#### LONG SPIGOT REDUCERS

**PE100 SDR11  
Long Spigot  
Reducer**



	Code	Size (OD) mm
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FPEHR/025X020	25 X 20mm
FPEHR/032X020	32 X 20mm
FPEHR/032X025	32 X 25mm
FPEHR/040X020	40 X 20mm
FPEHR/040X025	40 X 25mm
FPEHR/040X032	40 X 32mm
FPEHR/050X032	50 X 32mm
FPEHR/050X040	50 X 40mm
FPEHR/063X032	63 X 32mm
FPEHR/063X040	63 X 40mm
FPEHR/063X050	63 X 50mm
FPEHR/075X040	75 X 40mm
FPEHR/075X050	75 X 50mm
FPEHR/075X063	75 X 63mm
FPEHR/090X050	90 X 50mm
FPEHR/090X063	90 X 63mm
FPEHR/090X075	90 X 75mm
FPEHR/110X063	110 X 63mm
FPEHR/110X075	110 X 75mm
FPEHR/110X090	110 X 90mm
FPEHR/125X063	125 X 63mm
FPEHR/125X075	125 X 75mm
FPEHR/125X090	125 X 90mm
FPEHR/125X110	125 X 110mm
FPEHR/140X125	140 X 125mm
FPEHR/160X090	160 X 90mm
FPEHR/160X110	160 X 110mm
FPEHR/160X125	160 X 125mm
FPEHR/160X140	160 X 140mm
FPEHR/180X090	180 X 90mm
FPEHR/180X125	180 X 125mm
FPEHR/180X140	180 X 140mm
FPEHR/180X160	180 X 160M
FPEHR/200X160	200 X 160mm
FPEHR/200X180	200 X 180mm
FPEHR/225X160	225 X 160mm
FPEHR/225X180	225 X 180mm
FPEHR/225X200	225 X 200mm
FPEHR/250X180	250 X 180mm
FPEHR/250X200	250 X 200mm
FPEHR/250X225	250 X 225mm
FPEHR/280X225	280 X 225mm
FPEHR/280X250	280 X 250mm
FPEHR/315X225	315 X 225mm
FPEHR/315X250	315 X 250mm
FPEHR/355X250	355 X 250mm
FPEHR/355X315	355 X 315mm
FPEHR/450X355	450 X 355mm

**SIMONA**

#### LONG SPIGOT TEES

	Code	Size (OD) mm
<b>PE100 SDR11 Long Spigot Tee</b>	FPEHT/020	20mm
	FPEHT/025	25mm
	FPEHT/032	32mm
	FPEHT/040	40mm
	FPEHT/050	50mm
	FPEHT/063	63mm
	FPEHT/075	75mm
	FPEHT/090	90mm
	FPEHT/110	110mm
	FPEHT/125	125mm
	FPEHT/140	140mm
	FPEHT/160	160mm
	FPEHT/180	180mm
	FPEHT/200	200mm
	FPEHT/225	225mm
	FPEHT/250	250mm
	FPEHT/280	280mm
	FPEHT/315	315mm
	FPEHT/355	355mm
	FPEHT/400	400mm
	FPEHT/450	450mm
	FPEHT/500	500mm
	FPEHT/560	560mm
	FPEHT/630	630mm

#### LONG SPIGOT HYDRANT TEES

	Code	Size (OD) mm
<b>PE100 SDR11 Long Spigot Hydrant Tee</b>	FPEHHT/125	125 X Hydrant
	FPEHHT/180	180 X Hydrant
	FPEHHT/250	250 X Hydrant

#### LONG SPIGOT END CAPS

	Code	Size (OD) mm
<b>PE100 SDR11 Long Spigot Cap</b>	FPEHCAP/025	25mm
	FPEHCAP/032	32mm
	FPEHCAP/040	40mm
	FPEHCAP/050	50mm
	FPEHCAP/063	63mm
	FPEHCAP/075	75mm
	FPEHCAP/090	90mm
	FPEHCAP/110	110mm
	FPEHCAP/125	125mm
	FPEHCAP/140	140mm
	FPEHCAP/160	160mm
	FPEHCAP/180	180mm
	FPEHCAP/200	200mm
	FPEHCAP/225	225mm
	FPEHCAP/250	250mm
	FPEHCAP/280	280mm
	FPEHCAP/315	315mm
	FPEHCAP/355	355mm
	FPEHCAP/400	400mm

# PE100 METRIC

## SDR17 SPIGOT FITTINGS

### LONG SPIGOT TEES

	Code	Size (OD) mm
<b>PE100 SDR17 Long Spigot Tee</b>	FPE17HT/090	90mm
	FPE17HT/110	110mm
	FPE17HT/125	125mm
	FPE17HT/140	140mm
	FPE17HT/160	160mm
	FPE17HT/180	180mm
	FPE17HT/200	200mm
	FPE17HT/225	225mm
	FPE17HT/250	250mm
	FPE17HT/280	280mm
	FPE17HT/315	315mm
	FPE17HT/355	355mm
	FPE17HT/400	400mm
	FPE17HT/450	450mm
	FPE17HT/500	500mm
	FPE17HT/560	560mm
	FPE17HT/630	630mm



### ANGLE BRANCH WYE

	Code	Size (OD) mm
<b>PE100 SDR17 Long Spigot Angle Branch Wye</b>	FPE17HWYE/110	110mm
	FPE17HWYE/160	160mm
	FPE17HWYE/200	200mm
	FPE17HWYE/225	225mm
	FPE17HWYE/250	250mm



### LONG SPIGOT STUB FLANGES

	Code	Size (OD) mm
<b>PE100 SDR17 Long Spigot Stub Flange</b>	FPE17HSF/090	90mm
	FPE17HSF/110	110mm
	FPE17HSF/125	125mm
	FPE17HSF/140	140mm
	FPE17HSF/160	160mm
	FPE17HSF/180	180mm
	FPE17HSF/200	200mm
	FPE17HSF/225	225mm
	FPE17HSF/250	250mm
	FPE17HSF/280	280mm
	FPE17HSF/315	315mm
	FPE17HSF/355	355mm
	FPE17HSF/400	400mm
	FPE17HSF/450	450mm
	FPE17HSF/500	500mm
	FPE17HSF/560	560mm
	FPE17HSF/630	630mm



# SIMONA

### LONG SPIGOT 90° ELBOWS

	Code	Size (OD) mm
<b>PE100 SDR17 Long Spigot Elbow 90°</b>	FPE17HEL90/090	90mm
	FPE17HEL90/110	110mm
	FPE17HEL90/125	125mm
	FPE17HEL90/140	140mm
	FPE17HEL90/160	160mm
	FPE17HEL90/180	180mm
	FPE17HEL90/200	200mm
	FPE17HEL90/225	225mm
	FPE17HEL90/250	250mm
	FPE17HEL90/280	280mm
	FPE17HEL90/315	315mm
	FPE17HEL90/355	355mm
	FPE17HEL90/400	400mm
	FPE17HEL90/450	450mm
	FPE17HEL90/500	500mm

### LONG SPIGOT 45° ELBOWS

	Code	Size (OD) mm
<b>PE100 SDR17 Long Spigot Elbow 45°</b>	FPE17HEL45/090	90mm
	FPE17HEL45/110	110mm
	FPE17HEL45/125	125mm
	FPE17HEL45/140	140mm
	FPE17HEL45/160	160mm
	FPE17HEL45/180	180mm
	FPE17HEL45/200	200mm
	FPE17HEL45/225	225mm
	FPE17HEL45/250	250mm
	FPE17HEL45/280	280mm
	FPE17HEL45/315	315mm
	FPE17HEL45/355	355mm
	FPE17HEL45/400	400mm
	FPE17HEL45/450	450mm
	FPE17HEL45/500	500mm

### LONG SPIGOT REDUCERS

	Code	Size (OD) mm
<b>PE100 SDR17 Long Spigot Reducer</b>	FPE17HR/090X075	90 X 75mm
	FPE17HR/110X063	110 X 63mm
	FPE17HR/110X090	110 X 90mm
	FPE17HR/125X110	125 X 110mm
	FPE17HR/140X125	140 X 125mm
	FPE17HR/160X110	160 X 110mm
	FPE17HR/160X125	160 X 125mm
	FPE17HR/160X140	160 X 140mm
	FPE17HR/180X110	180 X 110mm
	FPE17HR/180X140	180 X 140mm
	FPE17HR/180X160	180 X 160mm
	FPE17HR/200X160	200 X 160mm
	FPE17HR/225X160	225 X 160mm
	FPE17HR/225X200	225 X 200mm
	FPE17HR/250X200	250 X 200mm
	FPE17HR/250X225	250 X 225mm
	FPE17HR/280X250	280 X 250mm
	FPE17HR/315X200	315 X 200mm
	FPE17HR/315X225	315 X 225mm
	FPE17HR/315X250	315 X 250mm
	FPE17HR/355X250	355 X 250mm
	FPE17HR/355X315	355 X 315mm
	FPE17HR/450X355	450 X 355mm

# THE SMARTER CHOICE.

## PE100 METRIC

 **PLOSSON®**

### BUTTWELD FITTINGS

#### SDR11 BUTT WELD STUB FLANGES

	Code	Size (OD) mm
<b>PE100 SDR11 Butt Weld Stub Flange</b>	FPEHSFBW/250	250mm
	FPEHSFBW/280	280mm
	FPEHSFBW/315	315mm
	FPEHSFBW/355	355mm
	FPEHSFBW/400	400mm
	FPEHSFBW/450	450mm
	FPEHSFBW/500	500mm
	FPEHSFBW/630	630mm
	FPEHSFBW/710	710mm
	FPEHSFBW/800	800mm
Other sizes available on request	FPEHSFBW/900	900mm
	FPEHSFBW/1000	1000mm

#### SDR17 BUTT WELD STUB FLANGES

	Code	Size (OD) mm
<b>PE100 SDR17 Butt Weld Stub Flange</b>	FPE17HSFBW/280	280mm
	FPE17HSFBW/315	315mm
	FPE17HSFBW/355	355mm
	FPE17HSFBW/400	400mm
	FPE17HSFBW/450	450mm
	FPE17HSFBW/500	500mm
	FPE17HSFBW/560	560mm
	FPE17HSFBW/630	630mm
	FPE17HSFBW/710	710mm
Other sizes available on request	FPE17HSFBW/800	800mm
	FPE17HSFBW/900	900mm
	FPE17HSFBW/1000	1000mm

#### SDR11 BUTT WELD TEES

	Code	Size (OD) mm
<b>PE100 SDR11 Butt Weld Tee</b>	FPEHTBW/355	355mm
	FPEHTBW/400	400mm
	FPEHTBW/450	450mm
	FPEHTBW/500	500mm

#### SDR17 BUTT WELD TEES

	Code	Size (OD) mm
<b>PE100 SDR17 Butt Weld Tee</b>	FPE17HTBW/355	355mm
	FPE17HTBW/400	400mm
	FPE17HTBW/450	450mm
	FPE17HTBW/500	500mm

#### SDR11 BUTT WELD REDUCERS

	Code	Size (OD) mm
<b>PE100 SDR11 Butt Weld Reducer</b>	FPEHRBW/315X200	315 X 200mm
	FPEHRBW/315X225	315 X 225mm
	FPEHRBW/315X250	315 X 250mm
	FPEHRBW/355X225	355 X 225mm
	FPEHRBW/355X250	355 X 250mm
	FPEHRBW/355X280	355 X 280mm
	FPEHRBW/355X315	355 X 315mm
	FPEHRBW/400X250	400 X 250mm
	FPEHRBW/400X280	400 X 280mm
	FPEHRBW/400X315	400 X 315mm
	FPEHRBW/400X355	400 X 355mm
	FPEHRBW/450X280	450 X 280mm
	FPEHRBW/450X315	450 X 315mm
	FPEHRBW/450X355	450 X 355mm
	FPEHRBW/450X400	450 X 400mm
	FPEHRBW/500X355	500 X 355mm
	FPEHRBW/500X400	500 X 400mm
	FPEHRBW/500X450	500 X 450mm
	FPEHRBW/560X400	560 X 400mm
	FPEHRBW/560X450	560 X 450mm
	FPEHRBW/560X500	560 X 500mm
Other sizes available on request	FPEHRBW/630X400	630 X 400mm
	FPEHRBW/630X450	630 X 450mm
	FPEHRBW/630X500	630 X 500mm
	FPEHRBW/630X560	630 X 560mm
	FPEHRBW/710X560	710 X 560mm
	FPEHRBW/710X630	710 X 630mm

# BACKING RINGS

## AND DRESSING SETS

### FBE COATED BACKING RINGS FOR PE

	Code	Size (OD) mm
<b>FBE Coated Backing Ring for PE 4087 PN16 Drilling</b>		
	FPEBRNTD/063	63
	FPEBRNTD/090	90
	FPEBRNTD/110	110
	FPEBRNTD/125	125
	FPEBRNTD/160	160
	FPEBRNTD/180	180
	FPEBRNTD/225	225
	FPEBRNTD/250	250
	FPEBRNTD/315	315
	FPEBRNTD/355	355
	FPEBRNTD/400	400
	FPEBRNTD/450	450
	FPEBRNTD/500	500
	FPEBRNTD/560	560
	FPEBRNTD/630	630
<b>FBE Coated Backing Ring for PE Table E Drilling</b>		
	FPEBRNTE/160	160
	FPEBRNTE/180	180
	FPEBRNTE/200	200
	FPEBRNTE/250	250
	FPEBRNTE/315	315



### GALVANISED BACKING RINGS FOR PE

	Code	Size (OD) mm
<b>Galvanised Backing Ring for PE 4087 PN16 Drilling</b>		
	FPEBRGTD/032	32
	FPEBRGTD/040	40
	FPEBRGTD/050	50
	FPEBRGTD/063	63
	FPEBRGTD/075	75
	FPEBRGTD/090	90
	FPEBRGTD/110	110
	FPEBRGTD/125	125
	FPEBRGTD/140	140
	FPEBRGTD/160	160
	FPEBRGTD/180	180
	FPEBRGTD/200	200
	FPEBRGTD/225	225
	FPEBRGTD/250	250
	FPEBRGTD/280	280
	FPEBRGTD/315	315
	FPEBRGTD/355	355
	FPEBRGTD/400	400
	FPEBRGTD/450	450
	FPEBRGTD/500	500
	FPEBRGTD/560	560
	FPEBRGTD/630	630
	FPEBRGTD/710	710
	FPEBRGTD/800	800
	FPEBRGTD/900	900
	FPEBRGTD/1000	1000
	FPEBRGTD/1200	1200
<b>Galvanised Backing Ring for PE Table E Drilling</b>		
	FPEBRGTE/160	160
	FPEBRGTE/180	180
	FPEBRGTE/200	200
	FPEBRGTE/225	225
	FPEBRGTE/250	250
	FPEBRGTE/280	280
	FPEBRGTE/315	315
	FPEBRGTE/450	450

### SS BACKING RINGS FOR PE

	Code	Size (OD) mm	Bolt Length mm
<b>Dressing Set 316SS Bolts Table D EPDM Gasket</b>			
	FPEHDRESS316TD/063	63	75
	FPEHDRESS316TD/075	75	75
	FPEHDRESS316TD/090	90	90
	FPEHDRESS316TD/110	110	90
	FPEHDRESS316TD/125	125	90
	*FPEHDRESS316TD/140	140	90
	FPEHDRESS316TD/160	160	110
	FPEHDRESS316TD/180	180	110
	FPEHDRESS316TD/200	200	110
	FPEHDRESS316TD/225	225	110
	FPEHDRESS316TD/250	250	110
	FPEHDRESS316TD/280	280	110
	FPEHDRESS316TD/315	315	130
	FPEHDRESS316TD/355	355	130
* Table D/E			
<b>Dressing Set Galv Bolts Table D EPDM Gasket</b>			
	FPEHDRESSGTD/063	63	75
	FPEHDRESSGTD/075	75	75
	FPEHDRESSGTD/090	90	90
	FPEHDRESSGTD/110	110	90
	FPEHDRESSGTD/125	125	90
	*FPEHDRESSGTD/140	140	90
	FPEHDRESSGTD/160	160	110
	FPEHDRESSGTD/180	180	110
	FPEHDRESSGTD/200	200	110
	FPEHDRESSGTD/225	225	110
	FPEHDRESSGTD/250	250	110
	FPEHDRESSGTD/280	280	110
	FPEHDRESSGTD/315	315	130
	FPEHDRESSGTD/355	355	130
* Table D/E			



	Code	Size (OD) mm
<b>SS 316 Backing Ring for PE 4087 PN16 Drilling</b>		
	FPEBRSSTD/090	90
	FPEBRSSTD/110	110
	FPEBRSSTD/125	125
	FPEBRSSTD/160	160
	FPEBRSSTD/180	180
	FPEBRSSTD/225	225
	FPEBRSSTD/250	250
	FPEBRSSTD/315	315
	FPEBRSSTD/355	355
	FPEBRSSTD/400	400
	FPEBRSSTD/450	450
	FPEBRSSTD/500	500
	FPEBRSSTD/630	630
<b>SS 316 Backing Ring for PE Table E Drilling</b>		
	FPEBRSSTE/160	160
	FPEBRSSTE/280	280
	FPEBRSSTE/450	450
	FPEBRSSTE/560	560



# THE SMARTER CHOICE.

## ADVANTAGE 29 SERIES

### FULL BORE, LONG SPIGOT, FABRICATED MITRED BENDS

Asmuss has supplied bespoke fabricated fittings for major projects for many years. As the size of pipe manufactured in New Zealand increases, so too has the demand for off the shelf large bore fittings. Our Plasson and Simona moulded HDPE spigot fittings range has increased to follow HDPE capability, and we can now offer standard pricing for large bore fabricated bends and tees on a made to order basis. Other fittings such as reducing tees and reducers are also available on a POA basis.

The fabricated fittings are made from PE100 pipe made in accordance with AS/NZS 4130 and the fabrication fittings follow POP006 PIPA guidelines.

### ADVANTAGE 29 SERIES: FULL BORE, LONG SPIGOT, FABRICATED MITRED BENDS

Manufactured In Accordance with POP006, the 29 Series bends are manufactured to the exact dimensional requirements in terms of pressure rating and specific SDR. The mitre configurations are designed using POP006 PN=fB xPN Pipe. The mitre angles shall not be greater than 15 degrees.

#### ADVANTAGE 29 SERIES - FULL BORE SDR11/PN16 MITRE BENDS

	Code	Size OD (mm)		Code	Size OD (mm)
<b>11° SDR11/PN16 1 Mitre Bend</b> 	FFPEH29B11DEG/110 FFPEH29B11DEG/125 FFPEH29B11DEG/160 FFPEH29B11DEG/180 FFPEH29B11DEG/200 FFPEH29B11DEG/225 FFPEH29B11DEG/250 FFPEH29B11DEG/280 FFPEH29B11DEG/315 FFPEH29B11DEG/355 FFPEH29B11DEG/400 FFPEH29B11DEG/450 FFPEH29B11DEG/500 FFPEH29B11DEG/560 FFPEH29B11DEG/630 FFPEH29B11DEG/710 FFPEH29B11DEG/800 FFPEH29B11DEG/900 FFPEH29B11DEG/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000	<b>45° SDR11/PN16 3 Mitre Bend</b> 	FFPEH29B45DEG/110 FFPEH29B45DEG/125 FFPEH29B45DEG/160 FFPEH29B45DEG/180 FFPEH29B45DEG/200 FFPEH29B45DEG/225 FFPEH29B45DEG/250 FFPEH29B45DEG/280 FFPEH29B45DEG/315 FFPEH29B45DEG/355 FFPEH29B45DEG/400 FFPEH29B45DEG/450 FFPEH29B45DEG/500 FFPEH29B45DEG/560 FFPEH29B45DEG/630 FFPEH29B45DEG/710 FFPEH29B45DEG/800 FFPEH29B45DEG/900	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900
<b>22.5° SDR11/PN16 2 Mitre Bend</b> 	FFPEH29B22.5DEG/110 FFPEH29B22.5DEG/125 FFPEH29B22.5DEG/160 FFPEH29B22.5DEG/180 FFPEH29B22.5DEG/200 FFPEH29B22.5DEG/225 FFPEH29B22.5DEG/250 FFPEH29B22.5DEG/280 FFPEH29B22.5DEG/315 FFPEH29B22.5DEG/355 FFPEH29B22.5DEG/400 FFPEH29B22.5DEG/450 FFPEH29B22.5DEG/500 FFPEH29B22.5DEG/560 FFPEH29B22.5DEG/630 FFPEH29B22.5DEG/710 FFPEH29B22.5DEG/800 FFPEH29B22.5DEG/900 FFPEH29B22.5DEG/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000	<b>90° SDR11/PN16 6 Mitre Bend</b> 	FFPEH29B45DEG/1000 FFPEH29B90DEG/110 FFPEH29B90DEG/125 FFPEH29B90DEG/160 FFPEH29B90DEG/180 FFPEH29B90DEG/200 FFPEH29B90DEG/225 FFPEH29B90DEG/250 FFPEH29B90DEG/280 FFPEH29B90DEG/315 FFPEH29B90DEG/355 FFPEH29B90DEG/400 FFPEH29B90DEG/450 FFPEH29B90DEG/500 FFPEH29B90DEG/560 FFPEH29B90DEG/630 FFPEH29B90DEG/710 FFPEH29B90DEG/800 FFPEH29B90DEG/900 FFPEH29B90DEG/1000	1000 110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900

#### FURTHER OPTIONS AVAILABLE ON REQUEST:

- We are able to fabricate to all other dedicated PN ratings
- Fully moulded bends are available in some sizes
- 30° and 60° options are available in all sizes
- Butt Welded options are available in all sizes and angles

# ADVANTAGE 29 SERIES

## FULL BORE, LONG SPIGOT, FABRICATED MITRED BENDS

### ADVANTAGE 29 SERIES - FULL BORE SDR17/PN10 MITRE BENDS

	Code	Size OD (mm)		Code	Size OD (mm)	
<b>11° SDR17/PN10 1 Mitre Bend</b>	FFPE17H29B11DEG/110 FFPE17H29B11DEG/125 FFPE17H29B11DEG/160 FFPE17H29B11DEG/180 FFPE17H29B11DEG/200 FFPE17H29B11DEG/225 FFPE17H29B11DEG/250 FFPE17H29B11DEG/280 FFPE17H29B11DEG/315 FFPE17H29B11DEG/355 FFPE17H29B11DEG/400 FFPE17H29B11DEG/450 FFPE17H29B11DEG/500 FFPE17H29B11DEG/560 FFPE17H29B11DEG/630 FFPE17H29B11DEG/710 FFPE17H29B11DEG/800 FFPE17H29B11DEG/900 FFPE17H29B11DEG/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000		<b>45° SDR17/PN10 3 Mitre Bend</b>	FFPE17H29B45DEG/110 FFPE17H29B45DEG/125 FFPE17H29B45DEG/160 FFPE17H29B45DEG/180 FFPE17H29B45DEG/200 FFPE17H29B45DEG/225 FFPE17H29B45DEG/250 FFPE17H29B45DEG/280 FFPE17H29B45DEG/315 FFPE17H29B45DEG/355 FFPE17H29B45DEG/400 FFPE17H29B45DEG/450 FFPE17H29B45DEG/500 FFPE17H29B45DEG/560 FFPE17H29B45DEG/630 FFPE17H29B45DEG/710 FFPE17H29B45DEG/800 FFPE17H29B45DEG/900 FFPE17H29B45DEG/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000
<b>22.5° SDR17/PN10 2 Mitre Bend</b>	FFPE17H29B22.5DEG/110 FFPE17H29B22.5DEG/125 FFPE17H29B22.5DEG/160 FFPE17H29B22.5DEG/180 FFPE17H29B22.5DEG/200 FFPE17H29B22.5DEG/225 FFPE17H29B22.5DEG/250 FFPE17H29B22.5DEG/280 FFPE17H29B22.5DEG/315 FFPE17H29B22.5DEG/355 FFPE17H29B22.5DEG/400 FFPE17H29B22.5DEG/450 FFPE17H29B22.5DEG/500 FFPE17H29B22.5DEG/560 FFPE17H29B22.5DEG/630 FFPE17H29B22.5DEG/710 FFPE17H29B22.5DEG/800 FFPE17H29B22.5DEG/900 FFPE17H29B22.5DEG/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000		<b>90° SDR17/PN10 6 Mitre Bend</b>	FFPE17H29B90DEG/110 FFPE17H29B90DEG/125 FFPE17H29B90DEG/160 FFPE17H29B90DEG/180 FFPE17H29B90DEG/200 FFPE17H29B90DEG/225 FFPE17H29B90DEG/250 FFPE17H29B90DEG/280 FFPE17H29B90DEG/315 FFPE17H29B90DEG/355 FFPE17H29B90DEG/400 FFPE17H29B90DEG/450 FFPE17H29B90DEG/500 FFPE17H29B90DEG/560 FFPE17H29B90DEG/630 FFPE17H29B90DEG/710 FFPE17H29B90DEG/800 FFPE17H29B90DEG/900 FFPE17H29B90DEG/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000

### FURTHER OPTIONS AVAILABLE ON REQUEST:

- We are able to fabricate to all other dedicated PN ratings
- Fully moulded bends are available in some sizes
- 30° and 60° options are available in all sizes
- Butt Welded options are available in all sizes and angles

# THE SMARTER CHOICE.

## ADVANTAGE 28 SERIES

### REDUCED BORE, LONG SPIGOT, FABRICATED MITRED BENDS

Manufactured In Accordance with POP006, the 28 Series bends made from pipe with an increased SDR dimension to achieve the desired PN rating. This option requires less mitres and can be used if a reduced bore is acceptable.

#### ADVANTAGE 28 SERIES - REDUCED BORE PN16 MITRE BENDS

	Code	Size (OD) mm
<b>22.5°</b> <b>PN16</b> <b>1 Mitre Bend</b>	FFPEH28B22.5DEGPN16/110 FFPEH28B22.5DEGPN16/125 FFPEH28B22.5DEGPN16/160 FFPEH28B22.5DEGPN16/180 FFPEH28B22.5DEGPN16/200 FFPEH28B22.5DEGPN16/225 FFPEH28B22.5DEGPN16/250 FFPEH28B22.5DEGPN16/280 FFPEH28B22.5DEGPN16/315 FFPEH28B22.5DEGPN16/355 FFPEH28B22.5DEGPN16/400 FFPEH28B22.5DEGPN16/450 FFPEH28B22.5DEGPN16/500 FFPEH28B22.5DEGPN16/560 FFPEH28B22.5DEGPN16/630 FFPEH28B22.5DEGPN16/710 FFPEH28B22.5DEGPN16/800 FFPEH28B22.5DEGPN16/900 FFPEH28B22.5DEGPN16/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000
<b>45°</b> <b>PN16</b> <b>2 Mitre Bend</b>	FFPEH28B45DEGPN16/110 FFPEH28B45DEGPN16/125 FFPEH28B45DEGPN16/160 FFPEH28B45DEGPN16/180 FFPEH28B45DEGPN16/200 FFPEH28B45DEGPN16/225 FFPEH28B45DEGPN16/250 FFPEH28B45DEGPN16/280 FFPEH28B45DEGPN16/315 FFPEH28B45DEGPN16/355 FFPEH28B45DEGPN16/400 FFPEH28B45DEGPN16/450 FFPEH28B45DEGPN16/500 FFPEH28B45DEGPN16/560 FFPEH28B45DEGPN16/630 FFPEH28B45DEGPN16/710 FFPEH28B45DEGPN16/800 FFPEH28B45DEGPN16/900 FFPEH28B45DEGPN16/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000
<b>90°</b> <b>PN16</b> <b>3 Mitre Bend</b>	FFPEH28B90DEGPN16/110 FFPEH28B90DEGPN16/125 FFPEH28B90DEGPN16/160 FFPEH28B90DEGPN16/180 FFPEH28B90DEGPN16/200 FFPEH28B90DEGPN16/225 FFPEH28B90DEGPN16/250 FFPEH28B90DEGPN16/280 FFPEH28B90DEGPN16/315 FFPEH28B90DEGPN16/355 FFPEH28B90DEGPN16/400 FFPEH28B90DEGPN16/450 FFPEH28B90DEGPN16/500 FFPEH28B90DEGPN16/560 FFPEH28B90DEGPN16/630 FFPEH28B90DEGPN16/710 FFPEH28B90DEGPN16/800 FFPEH28B90DEGPN16/900 FFPEH28B90DEGPN16/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000

#### ADVANTAGE 28 SERIES - REDUCED BORE PN10 MITRE BENDS

	Code	Size (OD) mm
<b>22.5°</b> <b>PN10</b> <b>1 Mitre Bend</b>	FFPEH28B22.5DEGPN10/110 FFPEH28B22.5DEGPN10/125 FFPEH28B22.5DEGPN10/160 FFPEH28B22.5DEGPN10/180 FFPEH28B22.5DEGPN10/200 FFPEH28B22.5DEGPN10/225 FFPEH28B22.5DEGPN10/250 FFPEH28B22.5DEGPN10/280 FFPEH28B22.5DEGPN10/315 FFPEH28B22.5DEGPN10/355 FFPEH28B22.5DEGPN10/400 FFPEH28B22.5DEGPN10/450 FFPEH28B22.5DEGPN10/500 FFPEH28B22.5DEGPN10/560 FFPEH28B22.5DEGPN10/630 FFPEH28B22.5DEGPN10/710 FFPEH28B22.5DEGPN10/800 FFPEH28B22.5DEGPN10/900 FFPEH28B22.5DEGPN10/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000
<b>45°</b> <b>PN10</b> <b>2 Mitre Bend</b>	FFPEH28B45DEGPN10/110 FFPEH28B45DEGPN10/125 FFPEH28B45DEGPN10/160 FFPEH28B45DEGPN10/180 FFPEH28B45DEGPN10/200 FFPEH28B45DEGPN10/225 FFPEH28B45DEGPN10/250 FFPEH28B45DEGPN10/280 FFPEH28B45DEGPN10/315 FFPEH28B45DEGPN10/355 FFPEH28B45DEGPN10/400 FFPEH28B45DEGPN10/450 FFPEH28B45DEGPN10/500 FFPEH28B45DEGPN10/560 FFPEH28B45DEGPN10/630 FFPEH28B45DEGPN10/710 FFPEH28B45DEGPN10/800 FFPEH28B45DEGPN10/900 FFPEH28B45DEGPN10/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000
<b>90°</b> <b>PN10</b> <b>3 Mitre Bend</b>	FFPEH28B90DEGPN10/110 FFPEH28B90DEGPN10/125 FFPEH28B90DEGPN10/160 FFPEH28B90DEGPN10/180 FFPEH28B90DEGPN10/200 FFPEH28B90DEGPN10/225 FFPEH28B90DEGPN10/250 FFPEH28B90DEGPN10/280 FFPEH28B90DEGPN10/315 FFPEH28B90DEGPN10/355 FFPEH28B90DEGPN10/400 FFPEH28B90DEGPN10/450 FFPEH28B90DEGPN10/500 FFPEH28B90DEGPN10/560 FFPEH28B90DEGPN10/630 FFPEH28B90DEGPN10/710 FFPEH28B90DEGPN10/800 FFPEH28B90DEGPN10/900 FFPEH28B90DEGPN10/1000	110 125 160 180 200 225 250 280 315 355 400 450 500 560 630 710 800 900 1000

# HDPE LONG SPIGOT

## FITTINGS & ACCESSORIES

LONG SPIGOT EQUAL TEES		
	Code	Size (OD) mm
<b>PE100 PN8 Long Spigot Equal Tee</b>	FFPEHET/630	630
	FFPEHET/710	710
	FFPEHET/800	800
	FFPEHET/900	900
	FFPEHET/1000	1000



Note: Moulded fittings available 90-630mm  
Further options available on request

LONG SPIGOT REDUCING TEES		
	Code	Size (OD) mm
<b>PE100 PN8 Long Spigot Reducing Tee</b>	FPE17HRT/090X075	90 X 75mm
	FPE17HRT/160X110	160 X 110mm
	FPE17HRT/200X160	200 X 160mm
	FPE17HRT/225X110	225 X 110mm
	FPE17HRT/225X160	225 X 160mm
	FPE17HRT/225X90	225 X 90mm
	FPE17HRT/250X110	250 X 110mm
	FPE17HRT/250X160	250 X 160mm
	FPE17HRT/315X160	315 X 160mm



Note: Electrofusion Reducing Saddles are available as an alternative in sizes up to 400mm. Refer to our Civil Catalogue.  
Further options available on request

LONG SPIGOT HYDRANT TEES		
	Code	Size (OD) mm
<b>PE100 SDR11 Long Spigot Hydrant Tee</b>	FPEHHT/125	125 X Hydrant
	FPEHHT/180	180 X Hydrant
	FPEHHT/250	250 X Hydrant



Note: FBE coating is standard on all Ductile Iron components  
Further options available on request

FULL BORE - TRUE-SLIM FULL FACE FLANGES		
	Code	Size (OD) mm
<b>PE100 SDR11 Slim Flange Assembly FBE Coated Backing Ring</b>	SLIMFLANGEFFN/250X200	250 X 200mm
	SLIMFLANGEFFN/315X250	315 X 250mm
	SLIMFLANGEFFN/355X300	355 X 300mm



PN16 Rated

<b>PE100 SDR11 Slim Flange Assembly 316 St. Steel Backing Ring</b>	SLIMFLANGEFFNS-S/250X200	250 X 200mm
	SLIMFLANGEFFNS-S/315X250	315 X 250mm
	SLIMFLANGEFFNS-S/355X300	355 X 300mm



PN16 Rated

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# THE SMARTER CHOICE.

## PE100 IMPERIAL



### SERIES 3 ELECTROFUSION AND SPIGOT PIPING SYSTEMS

#### Quality and Standards

Plasson ElectroFusion fittings are manufactured using PE 4710 black compounded resins listed in the PPI TR-4 and conform to international standards for potable water including NSF 61. The fittings are designed, tested and quality controlled in accordance with Plasson's internal standards. These standards are based on ASTM D2513 (for Gas Piping Systems) ASTM F1055 (Electrofusion Fittings)

Asmuss recommends that the installation of all PE pipe fittings, only be undertaken by suitably qualified and experienced operators.

#### SDR 11 ELECTROFUSION COUPLERS

	Code	Size (OD)
Coupler	FPEGHC/025	1"
	FPEGHC/032	1 1/4"
	FPEGHC/050	2"
	FPEGHC/080	3"
	FPEGHC/100	4"
	FPEGHC/150	6"

#### LONG SPIGOT END CAPS

	Code	Size (OD)
PE100 Spigot Cap	FPEGHCap/025	1"
	FPEGHCap/032	1 1/4"
	FPEGHCap/050	2"
	FPEGHCap/080	3"
	FPEGHCap/100	4"

#### ELECTROFUSION TEES

	Code	Size (OD)
90° Equal Tee	FPEGHCT/025	1"
	FPEGHCT/032	1 1/4"
	FPEGHCT/050	2"
	FPEGHCT/080	3"
	FPEGHCT/100	4"

#### LONG SPIGOT REDUCERS

	Code	Size (OD)
PE100 Spigot Reducer	FPEGHR/050X015	2 x 1/2"
	FPEGHR/050X025	2 x 1"
	FPEGHR/080X050	3 x 2"
	FPEGHR/100X050	4 x 2"
	FPEGHR/100X080	4 x 3"

#### ELECTROFUSION 90° ELBOWS

	Code	Size (OD)
90° Elbow	FPEGHCEL90/025	1"
	FPEGHCEL90/032	1 1/4"
	FPEGHCEL90/050	2"
	FPEGHCEL90/080	3"
	FPEGHCEL90/100	4"

#### ELECTROFUSION 45° ELBOWS

	Code	Size (OD)
45° Elbow	FPEGHCEL45/025	1"
	FPEGHCEL45/032	1 1/4"
	FPEGHCEL45/050	2"
	FPEGHCEL45/080	3"
	FPEGHCEL45/100	4"

#### ELECTROFUSION ADJUSTABLE ELBOWS

	Code	Size (OD)
Adjustable Elbow 2 Couplers	FPEGHCELADJ/100	4"

Suitable for welding at any angle of ±12° per side

#### ELECTROFUSION REDUCING COUPLERS

	Code	Size (OD)
Reducing Coupler	FPEGHCR/050X032	2 x 1 1/4"

# PE100 IMPERIAL

## SERIES 3 ELECTROFUSION AND SPIGOT PIPING SYSTEMS

### LONG SPIGOT STUB FLANGES

	Code	Size (OD)
<b>PE100 Spigot Stub Flange</b>	FPEGHSF/050	2"
	FPEGHSF/080	3"
	FPEGHSF/100	4"



### PE TO STEEL TRANSITIONS

	Code	Size (OD)
<b>PE100 IPS x Steel</b>	FPEGHSTF/025X1	1 x 1"
	FPEGHSTF/032X11/4	1 1/4 x 1 1/4"
	FPEGHSTF/050X2	2 x 2"
	FPEGHSTF/080X3	3 x 3"
	FPEGHSTF/100X4	4 x 4"
<b>PE100 IPS X STEEL WITH BSP THREAD</b>	FPEGHSTFBSP/025X1	1 x 1"
	FPEGHSTFB- SP/032X11/4	1 1/4 x 1 1/4"
	FPEGHSTFBSP/050X2	2 x 2"
	FPEGHSTFBSP/080X3	3 x 3"
	FPEGHSTFBSP/100X4	4 x 4"



### METRIC TO IMPERIAL PE TRANSITIONS

	Code	Size (OD)
<b>PE100 Metric x IPS</b>	FPEGHTR/032X1	32mm x 1"
	FPEGHTR/063X2	63mm x 2"
	FPEGHTR/125X4	125mm x 4"



### ELECTROFUSION TAPPING SADDLES

	Code	Size (OD)
<b>Tapping Saddle Underclamp</b>	FPEGHUTS/032X025	1 1/4 x 1"
	FPEGHUTS/050X025	2 x 1"
	FPEGHUTS/050X050	2 x 2"
	FPEGHUTS/080X025	3 x 1"
	FPEGHUTS/080X050	3 x 2"
	FPEGHUTS/100X025	4 x 1"
	FPEGHUTS/100X050	4 x 2"
<b>Tapping Saddle Underclamp High Flow</b>	FPEGHUTSHV/080X032	3 x 1 1/4"
	FPEGHUTSHV/080X050	3 x 2"
	FPEGHUTSHV/100X032	4 x 1 1/4"
	FPEGHUTSHV/100X050	4 x 2"
<b>Allen Key for Tapping Saddle</b>	PLASSONKEY/12MM	

### FULL BORE POLYVALVES

	Code	Size (OD)
<b>Full Bore</b>	VPEHFBIPS/025	1"
	VPEHFBIPS/050	2"

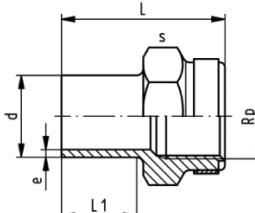


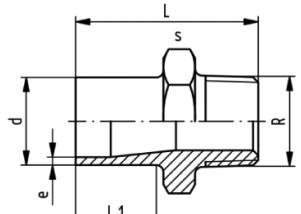
# THE SMARTER CHOICE.

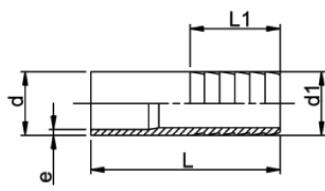
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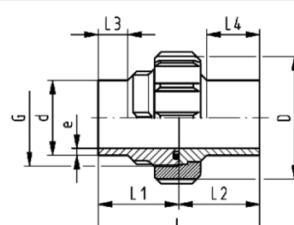
### PIPE FITTINGS

Asmuss offers a range of PE fittings that are suitable for chemical applications, particularly for chemical storage tanks. If you have any further requirement for specialist fittings for chemical applications please contact us.

ADAPTOR SOCKET					
	Code	d (mm)	Rp (in)	DN (mm)	FM
<b>Adaptor Socket SDR11, Metric Rp BSP Thread</b>	FPEHADSOPT/020 FPEHADSOPT/025 FPEHADSOPT/032 FPEHADSOPT/040 FPEHADSOPT/050 FPEHADSOPT/063	20 25 32 40 50 63	½ ¾ 1 1¼ 1½ 2	15 20 25 32 40 50	IR IR IR IR IR IR
					

ADAPTOR NIPPLE					
	Code	d (mm)	R (in)	DN (mm)	FM
<b>Adaptor Nipple SDR11, Metric R BSP Thread</b>	FPEHNIPT/020 FPEHNIPT/025 FPEHNIPT/032 FPEHNIPT/040 FPEHNIPT/050 FPEHNIPT/063	20 25 32 40 50 63	½ ¾ 1 1¼ 1½ 2	15 20 25 32 40 50	IR IR IR IR IR IR
					

HOSE CONNECTOR					
	Code	d (mm)	D1 (in)	DN (mm)	FM
<b>Hose Connector SDR11, Metric</b>	FPEHHOTSP/020 FPEHHOTSP/025 FPEHHOTSP/032 FPEHHOTSP/040 FPEHHOTSP/050 FPEHHOTSP/063	20 25 32 40 50 63	¼ ¾ 1 1¼ 1½ 2	15 20 25 32 40 50	IR IR IR IR IR IR
					

PE100 SOCKET UNION						
	Code	d (mm)	PN	FM	DN (mm)	D1 (in)
<b>Socket Union SDR11 EPDM</b>	753518606 753518607 753518608 753518609 753518610 753518611	20 25 32 40 50 63	16 16 16 16 16 16	IR IR IR IR IR IR	48 58 65 79 91 111	1 1¼ 1½ 2 2¼ 2¾
						

# PE DRAINAGE



## HDPE PIPING SYSTEM

The Geberit Polyethylene (PE) drainage system is ideally suited for use in a wide range of applications including: above and below ground drainage, normal and industrial waste and stormwater, as well as rainwater discharge inside domestic and industrial buildings.



### Standards and Quality Marks

Geberit PE Drainage is produced in conformity with the unified standard EN 1519 and has Watermark License W210 under MP52 Spec 005: - Sanitary plumbing pipes and pipe fittings.

### Benefits

- Quick and simple to install, via either butt welding or electrofusion welding
- Safe, secure and flexible
- Fewer blockages as PE's non-wettable surface resists build up and aids faster flow to reduce the likelihood of blockages
- High impact resistance, even at low temperatures
- Low noise transmission
- Wide temperature range
- Excellent abrasion resistance
- Good chemical resistance, please contact our sales team for suitability

### Applications

A Geberit PE Drainage system is ideally suited to applications where high integrity is required:

- DWV services and ducts in and under buildings
- Industrial waste drainage
- Hot and cold waste lines
- Sewer or drain rehabilitation
- Where ground or structural movement could occur (e.g. earthquakes)
- Siphonic roof drainage systems
- "Greasy" tradewaste

**For information relating to Siphonic drainage systems and Sovent ventilated stack systems please contact our sales team.**

PE DRAINAGE PIPE								
	Code	Size OD (mm)	Wall Thickness (mm)	Internal Diameter (mm)				
<b>PE Drainage Pipe 5 Metre Lengths</b>	PPED/040	40	3	34				
	PPED/050	50	3	44				
	PPED/056	56	3	50				
	PPED/063	63	3	57				
	PPED/075	75	3	69				
	PPED/090	90	3.5	83				
	PPED/110	110	4.3	101.4				
	PPED/125	125	4.9	115.2				
	PPED/160	160	6.2	147.6				
	*PPED/200	200	7.7	184.6				
	*PPED/250	250	9.7	230.6				
	*PPED/315	315	12.2	290.6				
	PPED33/200	200	6.2	187.6				
	PPED33/250	250	7.8	234.4				
	PPED33/315	315	9.8	295.4				
<b>PE Drainage Pipe 5 Metre Lengths</b>								
								
*SDR26 rated								
								
SDR33 rated								

# THE SMARTER CHOICE.

## PE DRAINAGE

**GEBERIT**

### HDPE PIPING SYSTEM

#### PE DRAINAGE FITTINGS

	Code	Size OD (mm)		Code	Size OD (mm)
<b>Electrofusion Coupler</b>	FPEDEC/040	40	<b>Equal Tee</b>	FPEDT/040	40
	FPEDEC/050	50		FPEDT/050	50
	FPEDEC/056	56		FPEDT/056	56
	FPEDEC/063	63		FPEDT/063	63
	FPEDEC/075	75		FPEDT/075	75
	FPEDEC/090	90		FPEDT/090	90
	FPEDEC/110	110		FPEDT/110	110
	FPEDEC/125	125		FPEDT/160	160
	FPEDEC/160	160		FPEDT/200	200
	FPEDEC/200	200		FPEDT/250	250
	FPEDEC/250	250		FPEDT/315	315
	FPEDEC/315	315			
<b>Elbow 45°</b>	FPEDEL45/040	40	<b>Reducing Tee</b>	FPEDRT/050X040	50 x 40
	FPEDEL45/050	50		FPEDRT/056X050	56 x 50
	FPEDEL45/056	56		FPEDRT/075X040	75 x 40
	FPEDEL45/063	63		FPEDRT/075X050	75 x 50
	FPEDEL45/075	75		FPEDRT/075X063	75 x 63
	FPEDEL45/090	90		FPEDRT/110X040	110 x 40
	FPEDEL45/110	110		FPEDRT/110X050	110 x 50
	FPEDEL45/125	125		FPEDRT/110X056	110 x 56
	FPEDEL45/160	160		FPEDRT/110X063	110 x 63
	FPEDEL45/200	200		FPEDRT/110X075	110 x 75
	*FPEDEL45/250	250		FPEDRT/110X090	110 x 90
	*FPEDEL45/315	315			
<b>Bend 88°</b>	FPEDEL88/040	40	<b>88.5° Swept Tee</b>	FPEDRT/160X075	160 x 75
	FPEDEL88/050	50		FPEDRT/160X110	160 x 110
	FPEDEL88/056	56		FPEDRT/200X110	200 x 110
	FPEDEL88/063	63		FPEDRT/200X160	200 x 160
	FPEDEL88/075	75		FPEDRT/250X110	250 x 110
	FPEDEL88/090	90		FPEDRT/250X160	250 x 160
	FPEDEL88/110	110		FPEDRT/315X160	315 x 160
	FPEDEL88/125	125		FPEDRT/315X200	315 x 200
	*FPEDEL88/160	160		FPEDRT/315X250	315 x 250
				FPEDST/110x110	110
<b>90° Bend Long Spigot</b>	FPEDB90LS/040	40	<b>Access Pipe With Screw Cap 88°</b>	FPEDAP/063	63
	FPEDB90LS/050	50		FPEDAP/075	75
	FPEDB90LS/056	56		FPEDAP/090	90
	FPEDB90LS/063	63		FPEDAP/110	110
	FPEDB90LS/075	75		FPEDAP/160	160
	FPEDB90LS/090	90			
	FPEDB90LS/110	110			
	*FPEDB90LS/160	160			
<b>90° Segmented Bend</b>	*FPEDEL90/200	200	<b>Access Pipe With Oval Cover</b>	FPEDAP/200	200
	*FPEDEL90/250	250		FPEDAP/250	250
	*FPEDEL90/315	315		FPEDAP/315	315
<b>Stub Flange</b>			<b>4 Way Riser</b>	FPED4WR/110X056	110/56
	FPEDSF/050	50			
	FPEDSF/056	56			
	FPEDSF/063	63			
	FPEDSF/075	75			
	FPEDSF/090	90			
	FPEDSF/110	110			
	FPEDSF/160	160			
	FPEDSF/200	200			
	FPEDSF/250	250			
	FPEDSF/315	315			
<b>Ball Chambers with 2, 3 or 4 branches - available on request</b>					

# PE DRAINAGE



## HDPE PIPING SYSTEM

PE DRAINAGE FITTINGS					
	Code	Size OD (mm)		Code	Size OD (mm)
<b>Wye Junction 45°</b> 	FPEDWYE/040 FPEDWYE/050 FPEDWYE/056 FPEDWYE/063 FPEDWYE/075 FPEDWYE/090 FPEDWYE/110 FPEDWYE/125 FPEDWYE/160 *FPEDWYE/200 *FPEDWYE/250 *FPEDWYE/315	40 50 56 63 75 90 110 125 160 200 250 315	<b>45° Double Branch</b> 	FPEDDWYE/110X110	110 x 110
<b>Reducing Wye Junction</b> 	FPEDWYE/050X040 FPEDWYE/056X050 FPEDWYE/063X040 FPEDWYE/063X050 FPEDWYE/063X056 FPEDWYE/075X040 FPEDWYE/075X050 FPEDWYE/075X056 FPEDWYE/075X063 FPEDWYE/090X040 FPEDWYE/090X050 FPEDWYE/090X056 FPEDWYE/090X063 FPEDWYE/090X075 FPEDWYE/110X040 FPEDWYE/110X050 FPEDWYE/110X056 FPEDWYE/110X075 FPEDWYE/110X090 FPEDWYE/125X063 FPEDWYE/125X075 FPEDWYE/125X090 FPEDWYE/125X110 FPEDWYE/160X075 FPEDWYE/160X090 FPEDWYE/160X110 FPEDWYE/160X125 *FPEDWYE/200X110 *FPEDWYE/200X125 *FPEDWYE/200X160 *FPEDWYE/250X110 *FPEDWYE/250X160 *FPEDWYE/250X200 *FPEDWYE/315X110 *FPEDWYE/315X160 *FPEDWYE/315X200 *FPEDWYE/315X250	50 x 40 56 x 50 63 x 40 63 x 50 63 x 56 75 x 40 75 x 50 75 x 56 75 x 63 90 x 40 90 x 50 90 x 56 90 x 63 90 x 75 110 x 40 110 x 50 110 x 56 110 x 75 110 x 90 125 x 63 125 x 75 125 x 90 125 x 110 160 x 75 160 x 90 160 x 110 160 x 125 200 x 110 200 x 125 200 x 160 250 x 110 250 x 160 250 x 200 315 x 110 315 x 160 315 x 200 315 x 250	<b>Eccentric Reducer</b> 	FPEDER/050X040 FPEDER/056X040 FPEDER/056X050 FPEDER/063X050 FPEDER/063X056 FPEDER/075X040 FPEDER/075X050 FPEDER/075X056 FPEDER/075X063 FPEDER/090X050 FPEDER/090X056 FPEDER/090X063 FPEDER/090X075 FPEDER/110X040 FPEDER/110X050 FPEDER/110X056 FPEDER/110X063 FPEDER/110X075 FPEDER/110X090 FPEDER/125X050 FPEDER/125X056 FPEDER/125X063 FPEDER/125X075 FPEDER/125X090 FPEDER/125X110 FPEDER/160X110 FPEDER/160X125	50x40 56x40 56x50 63x50 63x56 75x40 75x50 75x56 75x63 90x50 90x56 90x63 90x75 110x40 110x50 110x56 110x63 110x75 110x90 125x50 125x56 125x63 125x75 125x90 125x110 160x110 160x125
	Note: Can be EF or Butt Welded				
<b>Loose Nut Threaded Adaptor</b> 	FPEDLNUT/050X11/2 FPEDLNUT/050X2	50 x 1½" 50 x 2"	<b>Long Spigot Eccentric Reducer</b> 	FPEDERLS/200X110 FPEDERLS/200X125 FPEDERLS/200X160 FPEDERLS/250X200 FPEDERLS/315X200 FPEDERLS/315X250	200x110 200x125 200x160 250x200 315x200 315x250
<b>Male Threaded Adaptor</b> 	FPEDMA/050X11/2 FPEDMA/056X2 FPEDMA/063X2 FPEDMA/075X21/2	50x1½" 56x2" 63x2" 75x2½"	<b>Female Threaded Adaptor</b> 	FPEDFA/040X1 FPEDFA/050X11/2 FPEDFA/056X2 FPEDFA/063X2 FPEDFA/075X21/2	40x1" 50x1½" 56x2" 63x2" 75x2½"

# THE SMARTER CHOICE.

## PE DRAINAGE

**GEBERIT**

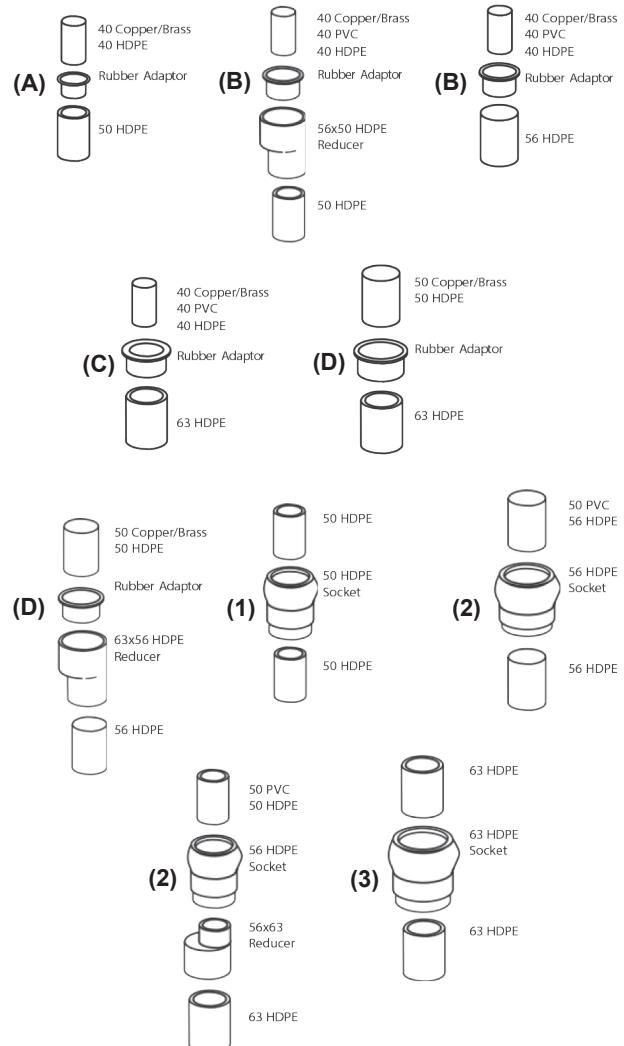
### HDPE PIPING SYSTEM

#### PE DRAINAGE FITTINGS

	Code	Size OD (mm)
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<b>Pan Connector</b> 	FPEDPC/110	110 x 135 Rubber
<b>Screwed End Cap</b> 	FPEDSEC/040	40
	FPEDSEC/050	50
	FPEDSEC/056	56
	FPEDSEC/060	63
	FPEDSEC/070	75
	FPEDSEC/090	90
	FPEDSEC/110	110
<b>Long Spigot Screwed End Cap</b>	FPEDSECLS/056	56
	FPEDSECLS/075	75
	FPEDSECLS/090	90
<b>S Trap</b> 	FPEDSTRAP/050X050	50
	FPEDSTRAP/050X056	50x56
<b>P Trap</b> 	FPEDPTRAP/050X050	50
	FPEDPTRAP/050X056	50x56
<b>P Trap - Short Fixed</b> 	FPEDSPT/050	50
	FPEDSPT/056	56
	FPEDSPT/063	63
	FPEDSPT/075	75
	FPEDSPT/090	90
	FPEDSPT/110	110
	FPEDSPT/160	160
Note: Other P Trap sizes also available		
<b>P Trap - Long Fixed</b> 	FPEDLPT/050	50
	FPEDLPT/056	56
	FPEDLPT/063	63
	FPEDLPT/075	75
	FPEDLPT/090	90
	FPEDLPT/110	110
	FPEDLPT/160	160
Note: Other P Trap sizes also available		
<b>P Trap Short Adjustable</b> 	FPEDAPT/110	110
Note: Other P Trap sizes also available		

Adaptors from 50, 56, 63mm HDPE to the fixture trap or tundish



Reduce pipe > 63mm using PE eccentric reducer then adaptors from above

KEY	Code	Size OD (mm)
(A)	FPEDRTA/050X040	50 x 40
(B)	FPEDRTA/056X040	56 x 40
(C)	FPEDRTA/063X040	63 x 40
(D)	FPEDRTA/063X050	63 x 50
(Butt Weld only)		
(1)	FPEDRRJ/050	50
(2)	FPEDRRJ/056	56
(3)	FPEDRRJ/063	63
OR Long Spigot for EF		
(1)	FPEDRRJLS/050	50
(2)	FPEDRRJLS/056	56
(63mm not available)		

# PE DRAINAGE

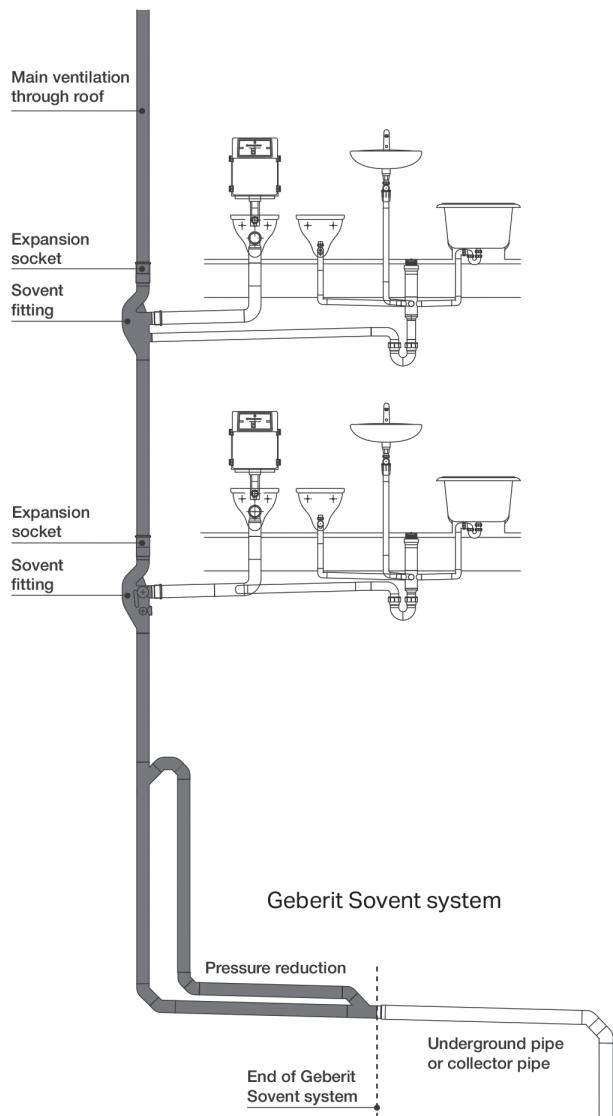


## HDPE PIPING SYSTEM

### PE DRAINAGE FITTINGS

Due to its high capacity and excellent performance Geberit Sovent is an ideal drainage system for:

- High-rise office buildings
- Hotels
- Multi-storey residential buildings



#### Why is Geberit Sovent a better solution?

There is a simple answer to that:

- Better performance, less space, labour and material cost

#### Better performance.

In comparison with conventional systems, Geberit Sovent:

- Reduces the pneumatic and hydraulic pressure
- Offers versatile branch joining possibilities
- Reduces stack sizes with the same loading capacities as a secondary ventilated system
- Saves space

**PE Drainage Tooling and Accessories are also available. Please refer to our Machines and Tooling Catalogue.**

	Code	Size OD (mm)
<b>Sovent Ventilation Branch</b>	FPEDVBHF/110 FPEDVB/160	110 160
	• Pre-fabricated ventilation branches offered to reduce In-situ welding and costs	
	• More than one PE/PVC ring seal adaptor: can be welded to a ventilation branch	
	• Off take locations and orientation to be confirmed at time of order	
<b>Expansion Joint</b>	FPEDEJ/050 FPEDEJ/056 FPEDEJ/063 FPEDEJ/075 FPEDEJ/090 FPEDEJ/110 FPEDEJ/125 FPEDEJ/160 FPEDEJ/200 FPEDEJ/250 FPEDEJ/315	50 56 63 75 90 110 125 160 200 250 315
<b>Ring Seal Adaptor</b>	FPEDRRJ/040 FPEDRRJ/050 FPEDRRJ/056 FPEDRRJ/063 FPEDRRJ/075 FPEDRRJ/090 FPEDRRJ/110 FPEDRRJ/160	40 50 56 63 75 90 110 160
	Long spigot will suit buttweld & EF	
<b>PE Slab Adaptor</b>	FPEDSLAB/110	110
<b>Long Spigot Weld On End Cap</b>	FPEDWECLS/050 FPEDWECLS/056 FPEDWECLS/075 FPEDWECLS/090 FPEDWECLS/110 FPEDWECLS/160	50 56 75 90 110 160
<b>EF (Anchor) Tape</b>	FPEDETAPE/110 FPEDETAPE/160 FPEDETAPE/200 FPEDETAPE/250 FPEDETAPE/315	110 160 200 250 315
<b>Open Weave Cloth</b>	FPEDOC	
<b>Electrofusion Control Unit</b>	GEBERITESG3	40 - 315
	Welds 3 joints at one time (up to 110mm)	

# THE SMARTER CHOICE.

## PIPE DRAINAGE

**GEBERIT**

### HDPE PIPING SYSTEM

#### GEBERIT PLUVIA SIPHONIC ROOF DRAINAGE SYSTEM

**Double the amount of rainwater discharge.**

**Half the pipe diameter.**

Geberit Pluvia outlets have been specially constructed to ensure rapid removal of rainwater from the roof using siphonic principles with a vacuum effect.

**Greater installation flexibility.**

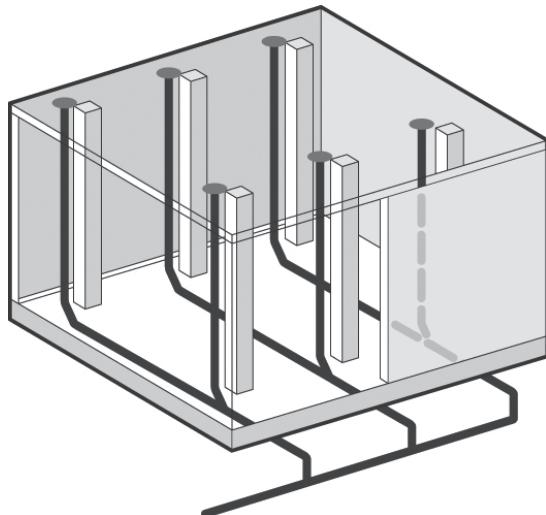
The Pluvia system is simpler because no slopes are required for horizontal pipe runs, reducing ceiling space. Smaller pipe diameters can lead to lower material cost and greater installation flexibility.

service package for customers from training to designing and onsite technical support. Fully accredited, our staff are able to assist consultants with the design of the Pluvia roof drainage system.

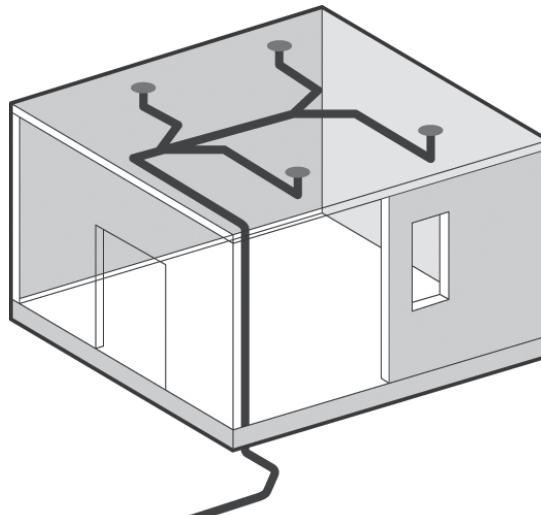
**Service and support.**

Geberit offers a comprehensive

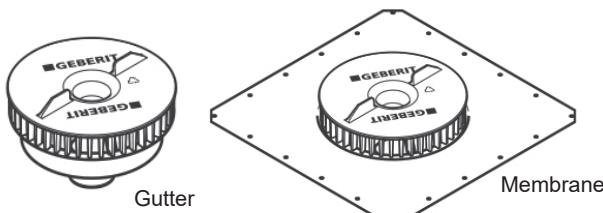
#### Advantages of Geberit Pluvia over conventional roof drainage systems



- Many roof outlets
- Pipe laying necessary on a slope
- Many stacks
- Complicated underground pipes
- Large pipe dimensions



- Fewer roof outlets due to the high drainage capacity per roof outlet
- Space savings
- Reduced construction effort
- Smaller pipe dimensions
- Self-cleaning of the pipes due to high flow speeds
- Architectural freedom



Roof outlets are a key component of a siphonic roof drainage system. Geberit roof outlets are available in gutter and membrane styles. Various sizes are available.

Roof outlets are not sold individually as they are supplied as part of the total siphonic system.

Each siphonic system is custom designed to suit individual buildings and roofs and the required ARI.

Siphonic roof drainage systems are quoted as a lump sum, and must be ordered as a package.

#### Pipework Support:

It is recommended that Geberit siphonic roof drainage systems are installed using a suspension rail system and appropriate pipe clamps. Anchor brackets (fixed points) must be provided when the pipeline changes orientation and also to control expansion and contraction.

Please enquire about pipe clamps designed to be used with the EF (anchor) tape listed below.

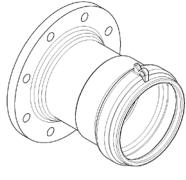
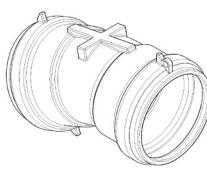
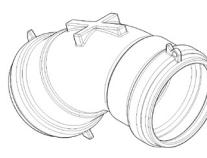
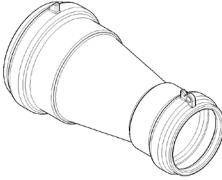
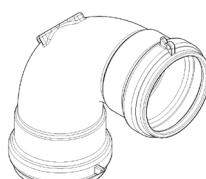
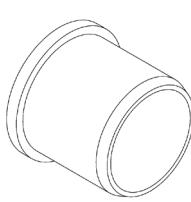
# ASMUSS DUCTILE IRON FITTINGS

## BITUMEN COATED - IRRIGATION FITTINGS

The Asmuss range of Bitumen Coated and Irrigation Ductile Iron fittings, where applicable, are manufactured AS/NZS2280.

Flanged fittings are drilled to AS/NZS4087 PN16 for D.I. (fig. B5). Other drilling standards are also available on request.

Flanged branch tees marked with an "H" (80NB, & 100NB) are slotted and will suit a standard AS/NZS4087 drilling and AS2129 3 1/2" (90NB) – hydrant drilling.

ASMUSS DUCTILE IRON FITTINGS					
	Code	NB (mm)		Code	NB (mm)
<b>S1 Socket Bend 11.25°</b> 	DIBRRJ11100 DIBRRJ11150 DIBRRJ11200 DIBRRJ11250 DIBRRJ11300	100 150 200 250 300	<b>S1 Socket Flange Adaptors</b> 	DIFS080 DIFS100 DIFS125 DIFS150 DIFS175 DIFS175-200 T/E DIFS200 DIFS200 T/E DIFS225 DIFS225-250 DIFS250 DIFS250 T/E DIFS300 DIFS375 DIFS375-400 T/E	80 100 125 150 175 175 200 200 225 225 250 250 300 375 375
<b>S1 Socket Bend 22.5°</b> 	DIBRRJ22100 DIBRRJ22150 DIBRRJ22175 DIBRRJ22200 DIBRRJ22250 DIBRRJ22300	100 150 175 200 250 300			
<b>S1 Socket Bend 45°</b> 	DIBRRJ45080 DIBRRJ45100 DIBRRJ45125 DIBRRJ45150 DIBRRJ45175 DIBRRJ45200 DIBRRJ45225 DIBRRJ45250 DIBRRJ45300 DIBRRJ45375	80 100 125 150 175 200 225 250 300 375	<b>S1 Socket Reducers</b> 	DIRRRJ100080 DIRRRJ125100 DIRRRJ150100 DIRRRJ150125 DIRRRJ175150 DIRRRJ200100 DIRRRJ200150 DIRRRJ200175 DIRRRJ225175 DIRRRJ225200 DIRRRJ250200 DIRRRJ250225 DIRRRJ300200 DIRRRJ300250 DIRRRJ375300	100x80 125x100 150x100 150x125 175x150 200x100 200x150 200x175 225x175 225x200 250x200 250x225 300x200 300x250 375x300
<b>Socket Bend 90°</b> 	DIBRRJ90080 DIBRRJ90100 DIBRRJ90125 DIBRRJ90150 DIBRRJ90175 DIBRRJ90200 DIBRRJ90225 DIBRRJ90250 DIBRRJ90300 DIBRRJ90375	80 100 125 150 175 200 225 250 300 375	<b>End Caps</b> 	CIEC100L CIEC125L CIEC150L CIEC175L CIEC200L CIEC225L CIEC250L CIEC300L	100 125 150 175 200 225 250 300

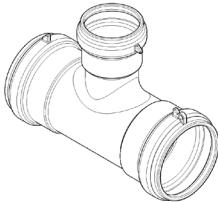
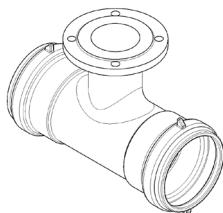
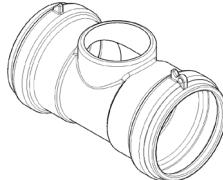
LARGER SIZES ARE AVAILABLE ON REQUEST

**THE SMARTER CHOICE.**

## **ASMUSS DUCTILE IRON FITTINGS**

### **BITUMEN COATED - IRRIGATION FITTINGS**

#### **ASMUSS DUCTILE IRON FITTINGS**

	Code	NB (mm)		Code	NB (mm)
<b>S1 Socket Tees</b>	DIRRJT080080	80x80	<b>S1 Socket Flanged Branch Tees</b>	DIRRBFT080080	80x80
	DIRRJT100080	100x80		DIRRBFT100080	100x80 (H*)
	DIRRJT100100	100x100		DIRRBFT100100	100x100 (H*)
	DIRRJT125100	125x100		DIRRBFT150080	150x80 (H*)
	DIRRJT125125	125x125		DIRRBFT150100	150x100 (H*)
	DIRRJT150080	150x80		DIRRBFT150150	150x150
	DIRRJT150100	150x100		DIRRBFT175150	175x150
	DIRRJT150125	150x125		DIRRBFT200100	200x100 (H*)
	DIRRJT150150	150x150		DIRRBFT200150	200x150
	DIRRJT175100	175x150		DIRRBFT200200	200x200
	DIRRJT175125	175x125		DIRRBFT225200	225x200
	DIRRJT175150	175x150		DIRRBFT250150	250x150
	DIRRJT175175	175x175		DIRRBFT250250	250x250
	DIRRJT200100	200x100		DIRRBFT300100	300x100 (H*)
	DIRRJT200125	200x125		DIRRBFT300150	300x150
	DIRRJT200150	200x150		DIRRBFT300300	300x300
	DIRRJT200175	200x175		DIRRBFT375300	375x300
	DIRRJT200200	200x200	<b>S1 Socket Irrigation Tees</b>	DIIT100080	100x80
	DIRRJT225150	225x150		DIIT100100	100x100
	DIRRJT225225	225x225		DIIT125100	125x100
	DIRRJT250200	250x200		DIIT125125	125x125
	DIRRJT250250	250x250		DIIT150100	150x100
	DIRRJT300200	300x200		DIIT150125	150x125
	DIRRJT300300	300x300		DIIT175100	175x100
	DIRRJT375375	375x375		DIIT175125	175x125
				DIIT200100	200x100
				DIIT200125	200x125
				DIIT200150	200x150
				DIIT225125	225x125
				DIIT225150	225x150
				DIIT250125	250x125
				DIIT250150	250x150
				DIIT300125	300x125
				DIIT300150	300x150

# ASMUSS DUCTILE IRON FITTINGS

## NYLON COATED

**Certified Product**



The Asmuss range of Ductile Iron Fittings is manufactured and certified to AS/NZS2280, Ductile Iron Pipes and Fittings. These products have been independently assessed and certified to AS/NZS 2280.

Asmuss Ductile Iron Fittings are supplied with a Polymeric coating to AS/NZS4158, for maximum corrosion protection.

Flanged fittings are drilled to AS/NZS4087 PN16 for D.I. (fig. B5), however other drilling standards are available on request.

Flanged branch tees marked with an "H\*" (80mm & 100mm) are slotted and will suit a standard AS/NZS4087 drilling and AS2129 3 1/2" (90) - hydrant drilling.

All Double Seal fittings can be supplied with sealing rings to suit either Series 1 PVC or Series 2 PVC / DI pipe. Please specify at time of ordering.

### ASMUSS DUCTILE IRON FITTINGS

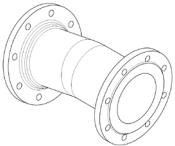
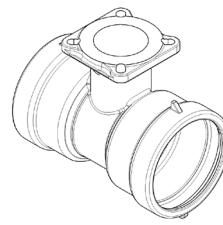
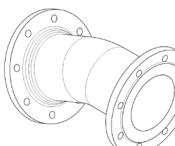
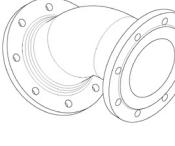
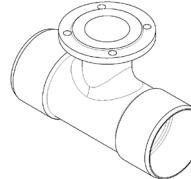
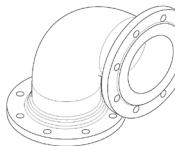
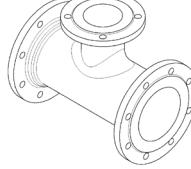
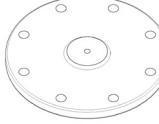
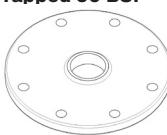
	Code	NB (mm)		Code	NB (mm)	
<b>Socket Bend 11.25° Double Seal</b> 	DIBRRJ11100DS-N DIBRRJ11150DS-N DIBRRJ11200DS-N	100 150 200	<b>Pipe Straight</b> 	DIPDF080225-N DIPDF100150-N DIPDF100225-N DIPDF100300-N DIPDF100500-N DIPDF1001000-N DIPDF150300-N DIPDF150500-N DIPDF1501000-N DIPDF200300-N DIPDF200500-N DIPDF2001000-N DIPDF250300-N DIPDF250500-N DIPDF2501000-N DIPDF300300-N DIPDF300500-N DIPDF3001000-N	80 x 225L 100 x 150L 100 x 225L 100 x 300L 100 x 500L 100 x 1000L 150 x 300L 150 x 500L 150 x 1000L 200 x 300L 200 x 500L 200 x 1000L 250 x 300L 250 x 500L 250 x 1000L 300 x 300L 300 x 500L 300 x 1000L	
<b>Socket Bend 22.5° Double Seal</b> 	DIBRRJ22100DS-N DIBRRJ22150DS-N DIBRRJ22200DS-N	100 150 200	<b>Pipe Straight with Puddle Flange at Centre</b> 	DIPDF1001000PF-N DIPDF1501000PF-N DIPDF2001000PF-N DIPDF2501000PF-N DIPDF3001000PF-N	100 x 1000L 150 x 1000L 200 x 1000L 250 x 1000L 300 x 1000L	
<b>Socket Bend 45° Double Seal</b> 	DIBRRJ45100DS-N DIBRRJ45150DS-N DIBRRJ45200DS-N	100 150 200	<b>Flanged Reducer</b> 	DIRF100080-N DIRF150100-N DIRF200100-N DIRF200150-N DIRF225200-N DIRF250150-N DIRF250200-N DIRF250225-N DIRF300150-N DIRF300200-N DIRF300250-N * DIRF375300-N	100 x 80 150 x 100 200 x 100 200 x 150 225 x 200 250 x 150 250 x 200 250 x 225 300 x 150 300 x 200 300 x 250 375 x 300	
<b>Socket Bend 90° Double Seal</b> 	DIBRRJ90100DS-N DIBRRJ90150DS-N DIBRRJ90200DS-N	100 150 200	<b>Spigot Flange Adaptor</b> 	DIFAC080-N DIFAC100-N DIFAC150-N DIFAC200-N DIFAC225-N DIFAC250-N DIFAC300-N	80 100 150 200 225 250 300	
<b>Socket Flange Adaptor Double Seal</b> 	DIFS100DS-N DIFS150DS-N DIFS200DS-N	100 150 200	*Optional 400 drilling on 375 flange			
<b>Flanged Cross</b> 	DICF100100-N DICF150100-N DICF150150-N DICF200200-N	100x100 150x100 150x150 200x200				

**LARGER SIZES ARE AVAILABLE ON REQUEST**

# THE SMARTER CHOICE.

## ASMUSS DUCTILE IRON FITTINGS

### NYLON COATED

ASMUSS DUCTILE IRON FITTINGS					
	Code	NB (mm)		Code	NB (mm)
<b>Flanged Bend 11.25°</b> 	DIBF11100-N	100	<b>Socket Branch</b> <b>Flanged Tee</b> <b>Double Seal</b> 	DIRRBFT100080DS-N	100 x 80H*
	DIBF11150-N	150		DIRRBFT100100DS-N	100 x 100H*
	DIBF11200-N	200		DIRRBFT150080DS-N	150 x 80H*
	DIBF11250-N	250		DIRRBFT150100DS-N	150 x 100H*
	DIBF11300-N	300		DIRRBFT150150DS-N	150 x 150
<b>Flanged Bend 22.5°</b> 	DIBF22100-N	100		DIRRBFT200080DS-N	200 x 80H*
	DIBF22150-N	150		DIRRBFT200100DS-N	200 x 100H*
	DIBF22200-N	200			
	DIBF22250-N	250			
	DIBF22300-N	300			
<b>Flanged Bend 45°</b> 	DIBF45100-N	100	<b>Spigot - Flanged Branch Tee</b> 	DITBF100100-N	100 x 100H*
	DIBF45150-N	150		DITBF150080-N	150 x 80H*
	DIBF45200-N	200		DITBF150100-N	150 x 100H*
	DIBF45250-N	250		DITBF150150-N	150 x 150
	DIBF45300-N	300		DITBF200100-N	200 x 100
<b>Flanged Bend 90°</b> 	DIBF90080-N	80		DITBF200150-N	200 x 150
	DIBF90100-N	100		DITBF200200-N	200 x 200
	DIBF90150-N	150		DITBF250100-N	250 x 100H*
	DIBF90200-N	200		DITBF300100-N	300 x 100H*
	DIBF90250-N	250		DITBF300150-N	300 x 150
<b>Hydrant Riser</b> 	DIHR100-N	100	<b>Flanged Tee</b> 	DITF080080-N	80 x 80
	DIHR150-N	150		DITF100080-N	100 x 80H*
	DIHR225-N	225		DITF100100-N	100 x 100
	DIHR300-N	300		DITF150080-N	150 x 80H*
	DIHR450-N	450		DITF150100-N	150 x 100
<b>Blank Flange</b> 	DIHR600-N	600		DITF150150-N	150 x 150
	DIHR150050-N	150 x 50 BSP		DITF200080-N	200 x 80H*
				DITF200100-N	200 x 100
				DITF200150-N	200 x 150
				DITF200200-N	200 x 200
<b>Blank Flange, Tapped 50 BSP</b> 	DITF250080-N	250 x 80H*			
	DITF250100-N	250 x 100			
	DITF250150-N	250 x 150			
	DITF250250-N	250 x 250			
	DITF300080-N	300 x 80H*			
	DITF300100-N	300 x 100			
	DITF300150-N	300 x 150			
	DITF300200-N	300 x 200			
	DITF300300-N	300 x 300			
	* DITF375100-N	375 x 100H*			
	* DITF375200-N	375 x 200			
	* DITF375375-N	375 x 375			

# DUCTILE IRON PIPE

## THE BENEFITS OF DUCTILE IRON

Pressure Class PN 35 matches the maximum flange table rating of the most common water industry applications. Peace of mind considering water hammer, rogue surges, cyclic stresses, varying soil loads, unpredictable traffic loads, and all unforeseen rigours of a pipe system in construction, operation and maintenance. Beam strength, heavy duty ring stiffness and critical buckling resistance across the entire size range. Operational savings and benefits via larger bores with reduced headlosses, reduced pumping costs and increased flows.

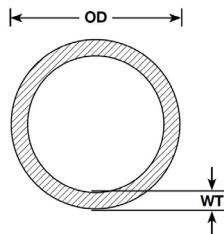
TYTON HYDROCLASS DUCTILE IRON PIPE						
	Code	Size (mm)	Length (m)	Mean external diameter Øy mm	Pipe Weights (Kg)	Nominal Pressure (PN)
<b>TYTONHYDROCLASS PN 35 SR CEMENT LINED</b>	D100HYD35C575Z	100	5.75	122	98	35
	D150HYD35C575Z	150	5.75	177	144	35
	D200HYD35C575Z	200	5.75	232	193	35
	D250HYD35C575Z	250	5.75	286	261	35
	D300HYD35C575Z	300	5.75	345	343	35
	D375HYD35C575Z	375	5.75	426	485	35
	D450HYD35C575Z	450	5.75	507	640	35
	D500HYD35C575Z	500	5.75	560	754	35
	D600HYD35C600Z	600	5.75	667	1005	35
	D750HYD35C600Z	700	5.75	826	1469	35



# THE SMARTER CHOICE.

## STEEL PIPE

### SEAMLESS LINE PIPE



Seamless Line Pipe API 5L Grade B / ASTM A53 Grade B / ASTM A106 Grade B

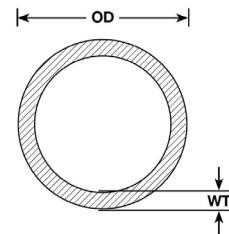
Code	NB	Schedule	OD	WT	Approx Weight (kg/m)	Length 6.0m
LPS010040	10	40 / STD	17.1	2.31	0.85	•
LPS015040	15	40 / STD	21.3	2.77	1.27	•
LPS015080	15	80 / XS	21.3	3.73	1.62	•
LPS015160	15	160	21.3	4.78	1.94	•
LPS015XXS	15	XXS	21.3	7.47	2.50	•
LPS020040	20	40 / STD	26.7	2.87	1.69	•
LPS020080	20	80 / XS	26.7	3.91	2.20	•
LPS020160	20	160	26.7	5.56	2.89	•
LPS020XXS	20	XXS	26.7	7.82	3.60	•
LPS025040	25	40 / STD	33.4	3.38	2.50	•
LPS025080	25	80 / XS	33.4	4.55	3.24	•
LPS025160	25	160	33.4	6.35	4.23	•
LPS025XXS	25	XXS	33.4	9.09	5.40	•
LPS032040	32	40 / STD	42.2	3.56	3.39	•
LPS032080	32	80 / XS	42.2	4.85	4.47	•
LPS032160	32	160	42.2	6.35	5.60	•
LPS040040	40	40 / STD	48.3	3.68	4.06	•
LPS040080	40	80 / XS	48.3	5.08	5.41	•
LPS040160	40	160	48.3	7.13	7.23	•
LPS040XXS	40	XXS	48.3	10.15	9.50	•
LPS050040	50	40 / STD	60.3	3.91	5.44	•
LPS050080	50	80 / XS	60.3	5.54	7.48	•
LPS050160	50	160	60.3	8.73	10.02	•
LPS050XXS	50	XXS	60.3	11.07	13.40	•
LPS065040	65	40 / STD	73.0	5.16	8.63	•
LPS065080	65	80 / XS	73.0	7.01	11.41	•
LPS065160	65	160	73.0	9.52	14.90	•
LPS080040	80	40 / STD	88.9	5.49	11.29	•
LPS080080	80	80 / XS	88.9	7.62	15.27	•
LPS080160	80	160	88.9	11.12	21.32	•



# STEEL PIPE

## SEAMLESS LINE PIPE

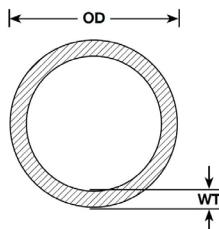
Seamless Line Pipe API 5L Grade B / ASTM A53 Grade B / ASTM A106 Grade B						
Code	NB	Schedule	OD	WT	Approx Weight (kg/m)	Length 6.0m
LPS080XXS	80	XXS	88.9	15.24	27.70	•
LPS090040	90	40 / STD	101.6	5.74	13.57	•
LPS100040	100	40 / STD	114.3	6.02	16.07	•
LPS100080	100	80 / XS	114.3	8.56	22.32	•
LPS100120	100	120	114.3	11.10	28.30	•
LPS100160	100	160	114.3	13.48	33.51	•
LPS100XXS	100	XXS	114.3	17.12	41.00	•
LPS125040	125	40 / STD	141.3	6.55	21.77	•
LPS125080	125	80 / XS	141.3	9.53	30.94	•
LPS150040	150	40 / STD	168.3	7.11	28.26	•
LPS150080	150	80 / XS	168.3	10.97	42.56	•
LPS150120	150	120	168.3	14.27	54.20	•
LPS150160	150	160	168.3	18.26	67.50	•
LPS150XXS	150	XXS	168.3	21.95	72.90	•
LPS200040	200	40 / STD	219.1	8.18	42.55	•
LPS200080	200	80 / XS	219.1	12.70	64.40	•
LPS200160	200	160	219.1	23.01	111.30	•
LPS250040	250	40 / STD	273.1	9.27	60.29	•
LPS250080	250	80	273.1	15.09	95.80	•
LPS300040	300	40	323.9	10.31	73.78	•



# THE SMARTER CHOICE.

## STEEL PIPE

### ERW LINE PIPE



ERW Line Pipe ASTM API 5L Grade B							
Code	NB	Schedule	OD	WT	Approx Weight (kg/m)	Length	
						6.0m	12.0m
LPW10040	100	40 / STD	114.3	6.02	12.00	•	
LPW150478	150	4.78	168.3	4.78	19.28	•	•
LPW15010	150	10	168.3	5.40	21.30	•	
LPW15020	150	20	168.3	6.35	25.36	•	•
LPW15040	150	40 / STD	168.3	7.11	28.26	•	•
LPW200478	200	4.78	219.1	4.78	25.26	•	•
LPW20020	200	20	219.1	6.35	33.31	•	•
LPW20040	200	40 / STD	219.1	8.17	42.49	•	•
LPW200XS	200	80 / XS	219.1	12.70	64.64	•	•
LPW250478	250	4.78	273.1	4.78	31.62	•	•
LPW25020	250	20	273.1	6.35	41.76	•	•
LPW25040	250	40 / STD	273.1	9.27	60.30	•	•
LPW250XS	250	XS	273.1	12.70	81.55	•	•
LPW30020	300	20	323.9	6.35	49.72	•	•
LPW300STD	300	STD	323.9	9.53	73.79	•	•
LPW30040	300	40	323.9	10.31	79.72	•	•
LPW300XS	300	XS	323.9	12.70	97.45		
LPW35010	350	10	355.6	6.35	54.69	•	
LPW350STD	350	STD	355.6	9.53	81.25	•	•
LPW350XS	350	XS	355.6	12.70	107.39	•	•
LPW40010	400	10	406.4	6.35	62.64	•	
LPW400STD	400	STD	406.4	9.53	93.17	•	•
LPW400XS	400	40 / XS	406.4	12.70	123.30		
LPW450STD	450	STD	457.2	9.53	105.09	•	•
LPW450XS	450	XS	457.2	12.70	139.20		
LPW500STD	500	STD	508.0	9.53	117.02	•	•
LPW500XS	500	XS	508.0	12.70	155.12		
LPW60020	600	20 / STD	609.6	9.53	141.12	•	•
LPW600XS	600	XS	609.6	12.70	186.94		
LPS080160	80	160	88.9	11.12	21.32	•	

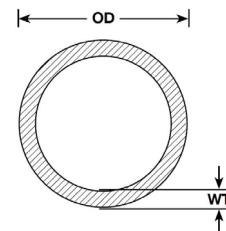


# STEEL PIPE

## BLACK PIPE

PBL = Light, PBM= Medium, PBH= Heavy

Black Pipe - No Coating - Plain End Med & Heavy C250 AS1074, Ex-Light & Light C350 AS1163					
Code	NB	OD	Thickness T	Approx Weight (kg/m)	Length 6.5m
PBMPE015	15	21.3	2.6	1.21	•
PBMPE020	20	26.9	2.6	1.56	•
PBHPE020	20	26.9	3.2	1.87	•
PBLPE025	25	33.7	2.6	1.99	•
PBMPE025	25	33.7	3.2	2.41	•
PBHPE025	25	33.7	4	2.94	•
PBLPE032	32	42.4	2.6	2.55	•
PBMPE032	32	42.4	3.2	3.10	•
PBHPE032	32	42.4	4	3.80	•
PBLPE040	40	48.3	2.9	3.25	•
PBMPE040	40	48.3	3.2	3.57	•
PBHPE040	40	48.3	4	4.38	•
PBLPE050	50	60.3	2.9	4.11	•
PBMPE050	50	60.3	3.6	5.03	•
PBHPE050	50	60.3	4.5	6.19	•
PBMPE065	65	76.1	3.6	6.43	•
PBHPE065	65	76.1	4.5	7.93	•
PBMPE080	80	88.9	4	8.37	•
PBHPE080	80	88.9	5	10.30	•
PBMPE090	90	101.6	4	9.63	•
PBHPE090	90	101.6	5	11.90	•
PBMPE100	100	114.3	4.5	12.20	•
PBHPE100	100	114.3	5.4	14.50	•
PBMPE125	125	139.7	5	16.60	•
PBHPE125	125	139.7	5.4	17.90	•
PBMPE150	150	165.1	5	19.70	•
PBHPE150	150	165.1	5.4	21.30	•

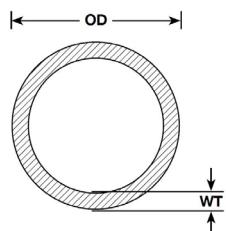


# THE SMARTER CHOICE.

## STEEL PIPE

### PRIMED PIPE

PPL= Light, PPM= Medium



Primed Pipe - Painted Red - Plain End AS1074 C250

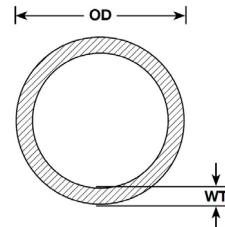
Code	NB	OD	WT	Approx Weight (kg/m)	Length 6.5m
PPMPE015	15	21.3	2.6	1.21	•
PPMPE020	20	26.9	2.6	1.56	•
PPMPE025	25	33.7	3.2	2.41	•
PPMPE032	32	42.4	3.2	3.10	•
PPMPE040	40	48.3	3.2	3.57	•
PPLPE050	50	60.3	2.9	4.11	•
PPMPE050	50	60.3	3.6	5.03	•
PPMPE065	65	76.1	3.6	6.43	•
PPLPE080	80	88.9	3.2	6.76	•
PPMPE080	80	88.9	4	8.37	•
PPMPE100	100	114.3	4.5	12.20	•
PPMPE125	125	139.7	5	16.60	•
PPMPE150	150	165.1	5	19.70	•

# STEEL PIPE

## GALVANIZED PIPE

PGXL= Ex-Light, PGL= Light, PGM= Medium, PGH= Heavy

Galvanised Pipe - Plain End AS/NZS 1163 Ex-Light & Light C250 Medium & Heavy C250 1074					
Code	NB	OD	WT	Approx Weight (kg/m)	Length 6.5m
PGLPE015	15	21.3	2	1.00	•
PGMPE015	15	21.3	2.6	1.24	•
PGXLPE020	20	26.9	2	1.28	•
PGLPE020	20	26.9	2.3	1.44	•
PGMPE020	20	26.9	2.6	1.60	•
PGHPE020	20	26.9	3.2	1.92	•
PGXLPE025	25	33.7	2	1.62	•
PGLPE025	25	33.7	2.6	2.05	•
PGMPE025	25	33.7	3.2	2.47	•
PGHPE025	25	33.7	4	3.00	•
PGXLPE032	32	42.2	2	2.07	•
PGLPE032	32	42.2	2.6	2.63	•
PGMPE032	32	42.4	3.2	3.18	•
PGHPE032	32	42.4	4	3.87	•
PGXLPE040	40	48.3	2.3	3.33	•
PGLPE040	40	48.3	2.9	3.33	•
PGMPE040	40	48.3	3.2	3.65	•
PGHPE040	40	48.3	4	4.46	•
PGXLPE050	50	60.3	2.3	3.40	•
PGLPE050	50	60.3	2.9	4.21	•
PGMPE050	50	60.3	3.6	5.14	•
PGHPE050	50	60.3	4.5	6.30	•
PGXLPE065	65	76.1	2.3	4.33	•
PGLPE065	65	76.1	3.2	5.89	•
PGMPE065	65	76.1	3.6	6.56	•
PGHPE065	65	76.1	4.5	8.07	•
PGXLPE080	80	88.9	2.6	5.70	•
PGLPE080	80	88.9	3.2	6.92	•
PGMPE080	80	88.9	4	8.53	•
PGHPE080	80	88.9	5	10.50	•
PGLPE090	90	101.6	3.2	7.95	•
PGMPE090	90	101.6	4	9.81	•
PGHPE090	90	101.6	5	12.10	•
PGLPE100	100	114.3	3.6	10.00	•
PGMPE100	100	114.3	4.5	12.40	•
PGHPE100	100	114.3	5.4	14.70	•
PGLPE125	125	137.9	3.5	12.00	•

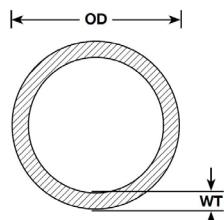


# THE SMARTER CHOICE.

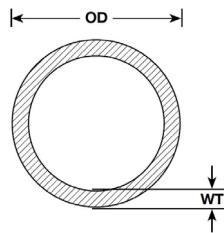
## STEEL PIPE

### GALVANIZED PIPE

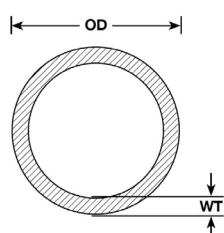
PGXL= Ex-Light, PGL= Light, PGM= Medium, PGH= Heavy



Galvanised Pipe - Plain End AS/NZS 1163 Ex-Light & Light C250 Medium & Heavy C250 1074 (continued)					
Code	NB	OD	WT	Approx Weight (kg/m)	Length 6.5m
PGMPE125	125	139.7	5	16.90	•
PGHPE125	125	139.7	5.4	18.10	•
PGLPE150	150	165.1	3.5	14.30	•
PGMPE150	150	165.1	5	20.00	•



Galvanised Pipe - Swaged One End AS/NZS 1163 Ex-Light & Light C250					
Code	NB	OD	WT	Approx Weight (kg/m)	Length 6.5m
PGLSW025	25	33.7	2.6	2.05	•
PGLSW032	32	42.2	2.6	2.63	•
PGLSW040	40	48.3	2.9	3.33	•
PGLSW050	50	60.3	2.9	4.21	•



Galvanised Pipe - Screwed and Socketed AS1074 Medium C250					
Code	NB	OD	WT	Approx Weight (kg/m)	Length 6.5m
PGMSS015	15	21.3	2.6	1.24	•
PGMSS020	20	26.9	2.6	1.60	•
PGMSS025	25	33.7	3.2	2.47	•
PGMSS032	32	42.4	3.2	3.18	•
PGMSS040	40	48.3	3.2	3.65	•
PGMSS050	50	60.3	3.6	5.14	•
PGMSS065	65	76.1	3.6	6.56	•
PGMSS080	80	88.9	4	8.53	•
PGMSS100	100	114.3	4.5	12.40	•
PGMSS125	125	139.7	5	16.90	•
PGMSS150	150	165.1	5	20.00	•

# METAL FITTINGS

## GALVANISED MALLEABLE IRON PIPE FITTINGS

### STANDARD AND IDENTIFICATION

Standard for production and use EN 10242 : 1994. Fittings made of high quality blackheart malleable cast iron to ASTM A-197, ASTM A47.

### THREADS

The threads are cut according to AS 1722.1 / ISO 7/1. Parallel internal thread (RP) and tapered external thread (R).

### APPLICATION

All the fittings are adequate for the supply of water at recommended maximum working pressures of 1379kPa and gas, steam and compressed air at recommended maximum working pressure of 1034 kPa. Note: Working pressures may also be limited by relevant pressure piping codes or Industry regulations.

### DIMENSIONS

All the fittings are manufactured to the specifications of standard BS EN 10242, BS 143, BS 1256.

### INSPECTION

All the fittings are inspected for conformity with the specifications of standard EN 10242.

### MARKING

All the fittings, when possible, are marked with brand and/or with the nominal size identification.

### HOT DIP

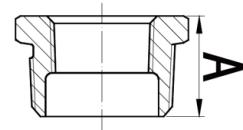
The fittings are delivered in hot dip galvanised finish, as prescribed by the standard EN 10242.

### LEAK TEST

Applying the standard EN 10242 each individual fitting is subjected to a pressure test with a min. hydrostatic pressure of 2068 kPa, which is equivalent to a pneumatic pressure of min. 500 kPa, without showing any sign of leakage or abnormality.

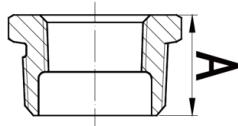
### Galvanised Malleable Hexagon Bush

Code	Size (mm)	A	Approx Weight
GB008006	8 x 6	20	0.02
GB010006	10 x 6	20	0.02
GB010008	10 x 8	20	0.02
GB015006	15 x 6	24	0.04
GB015008	15 x 8	24	0.04
GB015010	15 x 10	24	0.03
GB020006	20 x 6	26	0.07
GB020008	20 x 8	26	0.07
GB020010	20 x 10	26	0.06
GB020015	20 x 15	26	0.05
GB025008	25 x 8	29	0.11
GB025010	25 x 10	29	0.11
GB025015	25 x 15	29	0.10
GB025020	25 x 20	29	0.10
GB032010	32 x 10	31	0.18
GB032015	32 x 15	31	0.18
GB032020	32 x 20	31	0.17
GB032025	32 x 25	31	0.13
GB040010	40 x 10	31	0.24
GB040015	40 x 15	31	0.24



## METAL FITTINGS

### GALVANISED MALLEABLE IRON PIPE FITTINGS



**Galvanised Malleable Hexagon Bush (continued)**

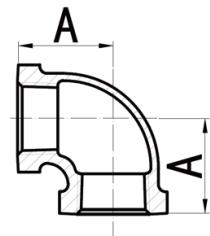
Code	Size (mm)	A	Approx Weight
GB040020	40 x 20	31	0.24
GB040025	40 x 25	31	0.20
GB040032	40 x 32	31	0.14
GB050010	50 x 10	48	0.28
GB050015	50 x 15	48	0.32
GB050020	50 x 20	48	0.32
GB050025	50 x 25	35	0.39
GB050032	50 x 32	35	0.34
GB050040	50 x 40	35	0.28
GB065025	65 x 25	54	0.66
GB065032	65 x 32	54	0.57
GB065040	65 x 40	40	0.58
GB065050	65 x 50	40	0.50
GB080025	80 x 25	59	0.98
GB080032	80 x 32	59	0.95
GB080040	80 x 40	59	0.87
GB080050	80 x 50	44	0.91
GB080065	80 x 65	44	0.63
GB100050	100 x 50	69	1.50
GB100065	100 x 65	69	1.62
GB100080	100 x 80	51	1.28
GB125100	125 x 100	47	2.02
GB150080	150 x 80	86	4.20
GB150100	150 x 100	86	4.29
GB150125	150 x 125	69	2.94

# METAL FITTINGS

## GALVANISED MALLEABLE IRON PIPE FITTINGS

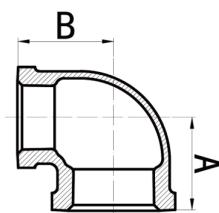
### Galvanised Malleable Female-Female Elbow 90°

Code	Size (mm)	A	Approx Weight
GE006	6	19	0.03
GE008	8	21	0.05
GE010	10	25	0.07
GE015	15	28	0.08
GE020	20	33	0.13
GE025	25	38	0.20
GE032	32	45	0.31
GE040	40	50	0.45
GE050	50	58	0.68
GE065	65	69	1.01
GE080	80	78	1.46
GE100	100	96	2.59
GE150	15	131	6.72



### Galvanised Malleable Female-Female Reducing Elbow 90°

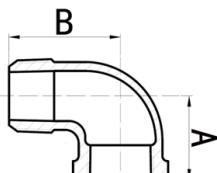
Code	Size (mm)	A	B	Approx Weight
GER015008	15 x 8	24	24	0.07
GER015010	15 x 10	26	26	0.12
GER020010	20 x 10	28	28	0.12
GER020015	20 x 15	30	31	0.10
GER025010	25 x 10	30	32	0.16
GER025015	25 x 15	32	34	0.13
GER025020	25 x 20	35	36	0.16
GER032015	32 x 15	32	37	0.18
GER032020	32 x 20	36	41	0.22
GER032025	32 x 25	40	42	0.25
GER040015	40 x 15	34	41	0.25
GER040020	40 x 20	37	42	0.30
GER040025	40 x 25	42	46	0.30
GER040032	40 x 32	46	48	0.37
GER050015	50 x 15	35	47	0.33
GER050020	50 x 20	40	48	0.41
GER050025	50 x 25	43	50	0.42
GER050032	50 x 32	47	53	0.53
GER050040	50 x 40	52	56	0.55



**THE SMARTER CHOICE.**

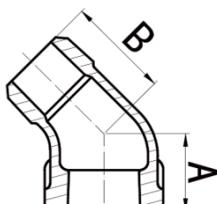
## METAL FITTINGS

### GALVANISED MALLEABLE IRON PIPE FITTINGS



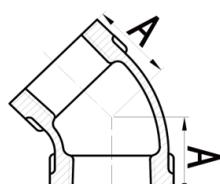
**Galvanised Malleable Male-Female Elbow 90°**

Code	Size (mm)	A	B	Approx Weight
GEMF006	6	19	25	0.02
GEMF008	8	21	28	0.04
GEMF010	10	25	32	0.07
GEMF015	15	28	37	0.07
GEMF020	20	33	43	0.12
GEMF025	25	38	52	0.19
GEMF032	32	45	60	0.31
GEMF040	40	50	65	0.40
GEMF050	50	58	74	0.65
GEMF065	65	69	88	0.98
GEMF080	80	78	98	1.42
GEMF100	100	96	118	2.47



**Galvanised Malleable Male-Female Elbow 45°**

Code	Size (mm)	A	B	Approx Weight
GEMF45015	15	22	28	0.08
GEMF45020	20	25	32	0.13
GEMF45025	25	28	37	0.20
GEMF45032	32	33	43	0.32
GEMF45040	40	36	46	0.41
GEMF45050	50	43	55	0.68
GEMF45065	65	49.5	65	0.81



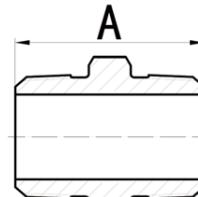
**Galvanised Malleable Female-Female Elbow 45°**

Code	Size (mm)	A	Approx Weight
GE45010	10	20	0.07
GE45015	15	22	0.07
GE45020	20	25	0.12
GE45025	25	28	0.17
GE45032	32	33	0.27
GE45040	40	50	0.35
GE45050	50	58	0.61
GE45065	65	69	0.87
GE45080	80	78	1.25
GE45100	100	96	2.38

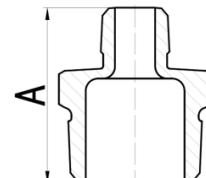
# METAL FITTINGS

## GALVANISED MALLEABLE IRON PIPE FITTINGS

Galvanised Malleable Hexagon Nipple			
Code	Size (mm)	A	Approx Weight
GN006	6	29	0.02
GN008	8	36	0.03
GN010	10	38	0.04
GN015	15	44	0.05
GN020	20	47	0.09
GN025	25	53	0.11
GN032	32	57	0.18
GN040	40	59	0.22
GN050	50	68	0.39
GN065	65	75	0.58
GN080	80	83	0.84
GN100	100	95	1.18
GN150	150	110	3.13

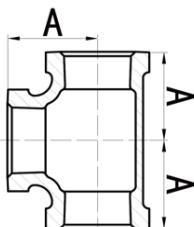


Galvanised Malleable Hexagon Reducing Nipple			
Code	Size (mm)	A	Approx Weight
GNR015008	15 x 8	44	0.06
GNR015010	15 x 10	44	0.09
GNR020010	20 x 10	47	0.09
GNR020015	20 x 15	47	0.09
GNR025015	25 x 15	53	0.12
GNR025020	25 x 20	53	0.13
GNR032015	32 x 15	57	0.21
GNR032020	32 x 20	57	0.21
GNR032025	32 x 25	57	0.21
GNR040015	40 x 15	59	0.25
GNR040020	40 x 20	59	0.24
GNR040025	40 x 25	59	0.25
GNR040032	40 x 32	59	0.25
GNR050015	50 x 15	68	0.44
GNR050020	50 x 20	68	0.44
GNR050025	50 x 25	68	0.44
GNR050032	50 x 32	68	0.43
GNR050040	50 x 40	68	0.43
GNR065050	65 x 50	75	0.68
GNR080050	80 x 50	83	0.99
GNR080065	80 x 65	83	0.98
GNR100080	100 x 80	87	1.42

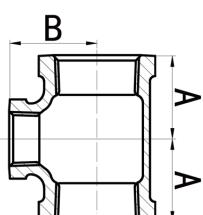


## METAL FITTINGS

### GALVANISED MALLEABLE IRON PIPE FITTINGS



Galvanised Malleable Equal Tee			
Code	Size (mm)	A	Approx Weight
GT006	6	19	0.04
GT008	8	21	0.07
GT010	10	25	0.10
GT015	15	28	0.11
GT020	20	33	0.18
GT025	25	38	0.27
GT032	32	45	0.44
GT040	40	50	0.56
GT050	50	58	0.89
GT065	65	69	1.38
GT080	80	78	1.98
GT100	100	96	3.39
GT150	150	131	8.92



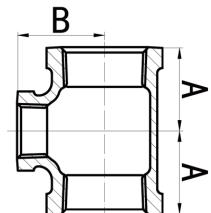
Galvanised Malleable Reducing Tee				
Code	Size (mm)	A	B	Approx Weight
GTR015008	15 x 8	24	24	0.11
GTR015010	15 x 10	26	26	0.13
GTR020010	20 x 10	28	28	0.18
GTR020015	20 x 15	30	31	0.16
GTR025010	25 x 10	30	32	0.27
GTR025015	25 x 15	32	34	0.21
GTR025020	25 x 20	35	36	0.24
GTR032010	32 x 10	32	36	0.36
GTR032015	32 x 15	34	38	0.29
GTR032020	32 x 20	36	41	0.34
GTR032025	32 x 25	40	42	0.37
GTR040010	40 x 10	34	39	0.47
GTR040015	40 x 15	36	42	0.37
GTR040020	40 x 20	38	44	0.40
GTR040025	40 x 25	42	46	0.45
GTR040032	40 x 32	46	48	0.51
GTR050010	50 x 10	36	46	0.67
GTR050015	50 x 15	38	48	0.56
GTR050020	50 x 20	40	50	0.59
GTR050025	50 x 25	44	52	0.65

# METAL FITTINGS

## GALVANISED MALLEABLE IRON PIPE FITTINGS

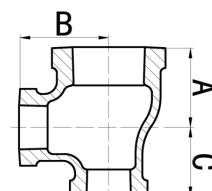
**Galvanised Malleable Reducing Tee**

Code	Size (mm)	A	B	Approx Weight
GTR050032	50 x 32	48	54	0.72
GTR050040	50 x 40	52	55	0.78
GTR065040	65 x 40	55	63	1.02
GTR065050	65 x 50	61	66	1.17
GTR080040	80 x 40	58	71	1.40
GTR080050	80 x 50	64	73	1.56
GTR100020	100 x 20	53	79	1.90
GTR100050	100 x 50	70	86	2.34
GTR100065	100 x 65	84	92	2.69
GTR100080	100 x 80	82	90	2.87
GTR150080	150 x 80	92.5	120.5	8.77
GTR150100	150 x 100	105	125.5	9.66



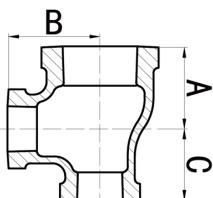
**Galvanised Malleable Reducing Street Tee**

Code	Size (mm) Mainway x Mainway x Branch	A	B	C	Approx Weight
GTR201515	20 x 15 x 15	30	31	28	0.18
GTR251525	25 x 15 x 25	38	38	34	0.31
GTR252015	25 x 20 x 15	35	36	31	0.26
GTR252020	25 x 20 x 20	35	36	33	0.28
GTR252532	25 x 25 x 32	42	40	42	0.45
GTR252540	25 x 25 x 40	46	42	46	0.51
GTR252550	25 x 25 x 50	51	48.5	51	0.66
GTR322515	32 x 25 x 15	34	38	32	0.34
GTR322520	32 x 25 x 20	36	41	35	0.39
GTR322525	32 x 25 x 25	40	42	38	0.45
GTR322532	32 x 25 x 32	45	45	42	0.50
GTR323240	32 x 32 x 40	48	46	48	0.62
GTR323250	32 x 32 x 50	54	48	54	0.77
GTR402525	40 x 25 x 25	42	46	38	0.51
GTR402532	40 x 25 x 32	45	47	41.5	0.56
GTR402540	40 x 25 x 40	40	40	46	0.79
GTR403215	40 x 32 x 15	36	42	34	0.44
GTR403225	40 x 32 x 25	42	46	40	0.55
GTR403232	40 x 32 x 32	46	48	45	0.60

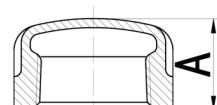


## METAL FITTINGS

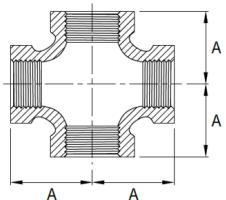
### GALVANISED MALLEABLE IRON PIPE FITTINGS



Galvanised Malleable Reducing Street Tee (continued)					
Code	Size (mm) Mainway x Mainway x Branch	A	B	C	Approx Weight
GTR403240	40 x 32 x 40	50	50	48	0.66
GTR404050	40 x 40 x 50	55	52	55	0.90
GTR502550	50 x 25 x 50	58	58	52	0.94
GTR503225	50 x 32 x 25	40	51	44	0.66
GTR503250	50 x 32 x 50	58	58	54	1.15
GTR504025	50 x 40 x 25	44	52	42	0.72
GTR504032	50 x 40 x 32	48	54	46	0.80
GTR504050	50 x 40 x 50	58	58	55	1.02



Galvanised Malleable Cap			
Code	Size (mm)	A	Approx Weight
GC008	8	15	0.02
GC010	10	17	0.03
GC015	15	19	0.04
GC020	20	22	0.06
GC025	25	24	0.09
GC032	32	27	0.14
GC040	40	27	0.17
GC050	50	32	0.29
GC065	65	35	0.44
GC080	80	38	0.66
GC100	100	45	1.11
GC150	150	61	4.19



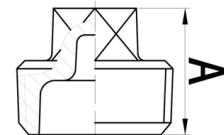
Galvanised Malleable Cross			
Code	Size (mm)	A	Approx Weight
GX010	10	25	0.12
GX015	15	28	0.13
GX020	20	33	0.21
GX025	25	38	0.36
GX032	32	45	0.55
GX040	40	50	0.66
GX050	50	58	1.06
GX065	65	69	1.71
GX080	80	78	2.33

# METAL FITTINGS

## GALVANISED MALLEABLE IRON PIPE FITTINGS

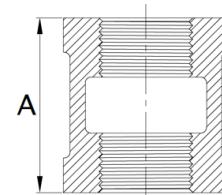
**Galvanised Malleable Square Head Plug**

Code	Size (mm)	A	Approx Weight
GP006	6	11	0.01
GP008	8	14	0.01
GP010	10	15	0.02
GP015	15	18	0.03
GP020	20	20	0.05
GP025	25	23	0.06
GP032	32	29	0.13
GP040	40	30	0.15
GP050	50	36	0.24
GP065	65	39	0.40
GP080	80	44	0.63
GP100	100	58	1.04
GP150	150	71.5	2.33



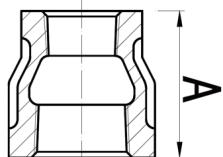
**Galvanised Malleable Socket**

Code	Size (mm)	A	Approx Weight
GS008	8	27	0.04
GS010	10	30	0.06
GS015	15	36	0.06
GS020	20	39	0.10
GS025	25	45	0.15
GS032	32	50	0.23
GS040	40	55	0.30
GS050	50	65	0.49
GS065	65	74	0.72
GS080	80	80	1.04
GS100	100	94	1.71



## METAL FITTINGS

### GALVANISED MALLEABLE IRON PIPE FITTINGS



**Galvanised Malleable Reducing Socket**

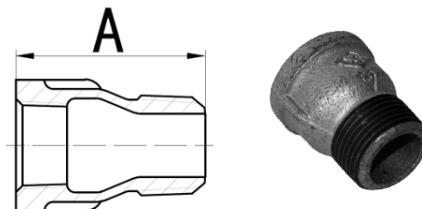
Code	Size (mm)	A	Approx Weight
GSR008006	8 x 6	27	0.03
GSR010008	10 x 8	30	0.05
GSR015008	15 x 8	36	0.06
GSR015010	15 x 10	36	0.07
GSR020008	20 x 8	39	0.09
GSR020010	20 x 10	39	0.10
GSR020015	20 x 15	39	0.09
GSR025008	25 x 8	45	0.13
GSR025010	25 x 10	45	0.14
GSR025015	25 x 15	45	0.12
GSR025020	25 x 20	45	0.13
GSR032015	32 x 15	50	0.19
GSR032020	32 x 20	50	0.19
GSR032025	32 x 25	50	0.20
GSR040015	40 x 15	55	0.21
GSR040020	40 x 20	55	0.23
GSR040025	40 x 25	55	0.25
GSR040032	40 x 32	55	0.28
GSR050015	50 x 15	65	0.36
GSR050020	50 x 20	65	0.36
GSR050025	50 x 25	65	0.38
GSR050032	50 x 32	65	0.40
GSR050040	50 x 40	74	0.43
GSR065025	65 x 25	74	0.51
GSR065032	65 x 32	74	0.55
GSR065040	65 x 40	74	0.57
GSR065050	65 x 50	74	0.64
GSR080025	80 x 25	80	0.82
GSR080032	80 x 32	80	0.75
GSR080040	80 x 40	80	0.80
GSR080050	80 x 50	80	0.84
GSR080065	80 x 65	80	0.91
GSR100050	100 x 50	94	1.32
GSR100065	100 x 65	94	1.34
GSR100080	100 x 80	94	1.48
GSR150100	150 x 100	105	4.56

# METAL FITTINGS

## GALVANISED MALLEABLE IRON PIPE FITTINGS

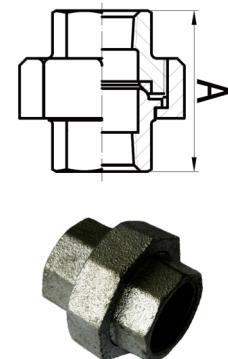
### Galvanised Malleable Male Female Socket

Code	Size (mm)	A	Approx Weight
GSMF015	15	40	0.07



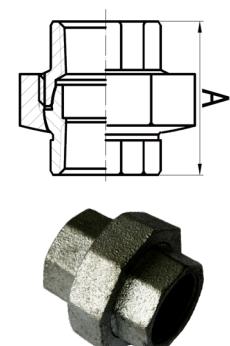
### Galvanised Malleable Steel to Brass Female-Female Union

Code	Size (mm)	A	Approx Weight
GUB008	8	36.5	0.10
GUB010	10	41	0.14
GUB015	15	43.5	0.17
GUB020	20	49.5	0.26
GUB025	25	52.5	0.37
GUB032	32	57.5	0.52
GUB040	40	61	0.75
GUB050	50	70	0.94
GUB065	65	82	1.64
GUB080	80	89	2.07
GUB100	100	98	3.64



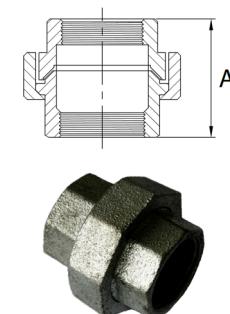
### Galvanised Malleable Female-Female Mac Union

Code	Size (mm)	A	Approx Weight
GUM015	15	46	0.24
GUM020	20	49	0.29
GUM025	25	55	0.41
GUM032	32	64	0.67
GUM040	40	74.5	1.04
GUM050	50	83	1.52



### Galvanised Malleable Steel to Steel Female-Female Union

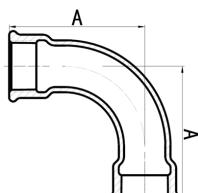
Code	Size (mm)	A	Approx Weight
GUT020	20	50	0.20
GUT025	25	55	0.30
GUT050	50	75	1.20



# THE SMARTER CHOICE.

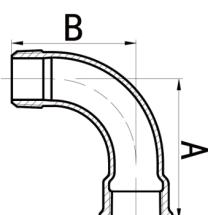
## METAL FITTINGS

### GALVANISED MALLEABLE IRON PIPE FITTINGS



**Galvanised Malleable Female-Female 90° Bend**

Code	Size (mm)	A	Approx Weight
GBE010	10	48	0.08
GBE015	15	55	0.12
GBE020	20	69	0.22
GBE025	25	85	0.33
GBE032	32	105	0.59
GBE040	40	116	0.75
GBE050	50	140	1.30
GBE065	65	176	2.14
GBE080	80	205	3.28
GBE100	100	260	5.91



**Galvanised Malleable Male-Female 90° Bend**

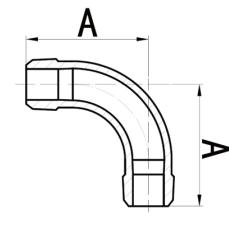
Code	Size (mm)	A	B	Approx Weight
GBEMF008	8	40	36	0.04
GBEMF010	10	48	42	0.07
GBEMF015	15	55	48	0.10
GBEMF020	20	69	60	0.19
GBEMF025	25	85	75	0.30
GBEMF032	32	105	95	0.54
GBEMF040	40	116	105	0.69
GBEMF050	50	140	130	1.20
GBEMF065	65	176	165	1.89
GBEMF080	80	205	290	2.97
GBEMF100	100	260	245	5.55

# METAL FITTINGS

## GALVANISED MALLEABLE IRON PIPE FITTINGS

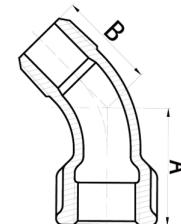
### Galvanised Malleable Male-Male 90° Bend

Code	Size (mm)	A	Approx Weight
GBEM015	15	48	0.08
GBEM020	20	60	0.19
GBEM025	25	75	0.30
GBEM032	32	95	0.59
GBEM040	40	105	0.60
GBEM050	50	130	1.06
GBEM065	65	165	2.25
GBEM080	80	190	3.28
GBEM100	100	245	5.91



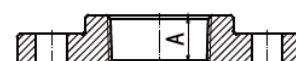
### Galvanised Malleable Male-Female 45° Bend

Code	Size (mm)	A	B	Approx Weight
GBEMF45015	15	36	30	0.08
GBEMF45020	20	43	36	0.14
GBEMF45025	25	51	42	0.21
GBEMF45032	32	64	54	0.38
GBEMF45040	40	68	58	0.47
GBEMF45050	50	81	70	0.78
GBEMF45065	65	99	86	1.24



### Galvanised Malleable Flange BS10 Drilled Table D

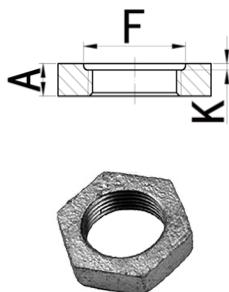
Code	Size (mm)	A	Approx Weight
GFT015	15	15	0.17
GFT020	20	16	0.23
GFT025	25	19	0.33
GFT032	32	21	0.47
GFT040	40	21	0.63
GFT050	50	26	0.84
GFT065	65	30	1.16
GFT080	80	33	1.87
GFT100	100	39	2.25
GFT150	150	40	4.74



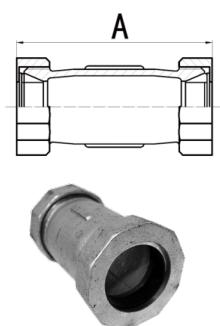
**THE SMARTER CHOICE.**

## METAL FITTINGS

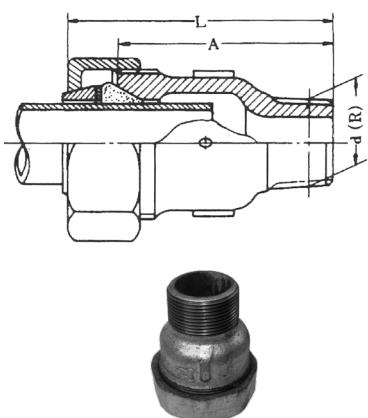
### GALVANISED MALLEABLE IRON PIPE FITTINGS



Galvanised Malleable Backnut					
Code	Size (mm)	A	F	K	Approx Weight
GBNUT015	15	7.9	24.6	1.5	0.03
GBNUT020	20	8.6	31.2	1.5	0.04
GBNUT025	25	9.7	38.1	1.5	0.06
GBNUT032	32	10.7	47.2	1.5	0.09
GBNUT040	40	11.9	53.9	1.5	0.12
GBNUT050	50	13.5	66.8	2.3	0.20
GBNUT065	65	16			0.28
GBNUT080	80	20.8			0.56
GBNUT100	100	20.3	127	3.3	1.08



Galvanised Malleable Female-Female Long Compression Coupling			
Code	Size (mm)	A	Approx Weight
GCC015	15	93	0.38
GCC020	20	101	0.47
GCC025	25	109	0.74
GCC032	32	114	0.86
GCC040	40	118	1.04
GCC050	50	121	1.37



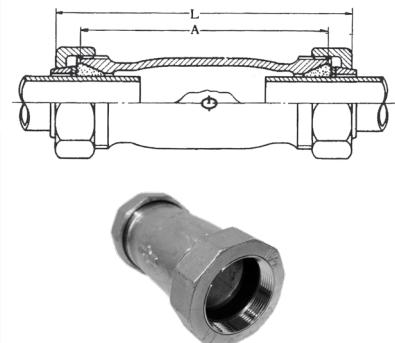
Galvanised Malleable Riken (HI-LA) Male - Female Compression Adaptor with Locking Ring				
Code	Size (mm)	A	L	Approx Weight
GCRA015	15	50	62	0.19
GCRA020	20	53	65	0.27
GCRA025	25	58.5	70.5	0.38
GCRA032	32	62	75	0.48
GCRA040	40	64.5	77.5	0.59
GCRA050	50	72	88	0.93

# METAL FITTINGS

## GALVANISED MALLEABLE IRON PIPE FITTINGS

### Galvanised Malleable Riken (HI-LA) Compression Coupling with Locking Rings

Code	Size (mm)	A	L	Approx Weight
GCRC015	15	87.5	112.5	0.38
GCRC020	20	94	119	0.56
GCRC025	25	100	125	0.69
GCRC032	32	106	132	0.95
GCRC040	40	112.5	139.5	1.25
GCRC050	50	119	151	1.74



## METAL FITTINGS

### HIGH PRESSURE FITTINGS

#### SIZE

NPS 1/8" ~ 4"(6mm ~ 100mm).

#### RATING

Threaded end – 3000lbs & 6000lbs. Socket-weld end – 3000lbs & 6000lbs. Butt Weld end – Schedule 80.

#### SPECIFICATION

A: DIN.specification: ASME B16.11-2001 (revision of ASME 16.11 -1996 MSS – SP – 9,83,95, 97 and bothwell specification JSB0203, B2316).

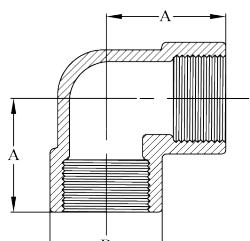
B: Material specification: ASTM A105.

#### MARKING

1. Carbon and alloy steel: marked by stamping.
2. 3/8" under: brand only.
3. 1/2" to 4": marked brand, material, heat no. B16 (belong to ANSI B16. 11 product), pressure and size.

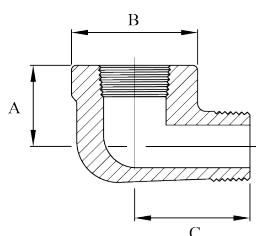
#### FINISHING

Black, galvanized (on request), yellow dichromate (on request).



**3000lb Threaded Female - Female Elbow 90° ASME B16.11**

Code NPT Thread	Code BSP Thread	Size (mm)	A	B	Approx Weight
NP3E008		8	25	25	0.14
NP3E010		10	28	33	0.29
NP3E015	BP3E015	15	33	38	0.42
NP3E020	BP3E020	20	38	46	0.69
NP3E025	BP3E025	25	44	56	1.11
NP3E032	BP3E032	32	51	62	1.34
NP3E040	BP3E040	40	60	75	2.63
NP3E050	BP3E050	50	64	84	3.14
NP3E065		65	83	102	5.51
NP3E080		80	95	121	8.42



**3000lb Threaded Male - Female Elbow 90°  
ASME B16.11**

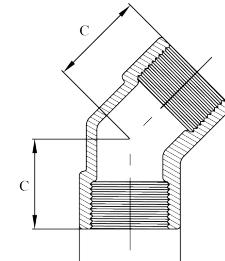
Code NPT Thread	Size (mm)	A	B	C	Approx Weight
NP3EMF008	8	22	25	32	0.11
NP3EMF010	10	25	32	38	0.22
NP3EMF015	15	28	38	41	0.31
NP3EMF020	20	35	44	48	0.55
NP3EMF025	25	44	51	57	1.17
NP3EMF032	32	51	62	66	1.27
NP3EMF040	40	54	70	71	2.06
NP3EMF050	50	64	84	84	2.75

# METAL FITTINGS

## HIGH PRESSURE FITTINGS

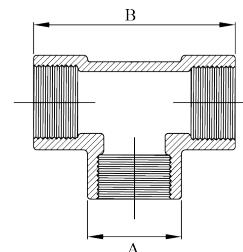
### 3000lb Threaded Female - Female Elbow 45° ASME B16.11

Code NPT Thread	Code BSP Thread	Size (mm)	B	C	Approx Weight
NP3E45008		8	25	19	0.12
NP3E45010		10	33	22	0.24
NP3E45015	BP3E45015	15	38	25	0.37
NP3E45020	BP3E45020	20	46	28	0.56
NP3E45025	BP3E45025	25	56	33	0.94
NP3E45032	BP3E45032	32	62	35	1.03
NP3E45040	BP3E45040	40	75	43	2.05
NP3E45050	BP3E45050	50	84	44	2.23



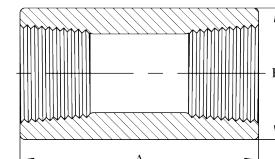
### 3000lb Threaded Equal Tee ASME B16.11

Code NPT Thread	Code BSP Thread	Size (mm)	A	B	Approx Weight
NP3T008		8	25	50	0.19
NP3T010		10	33	56	0.38
NP3T015	BP3T015	15	38	66	0.55
NP3T020	BP3T020	20	46	76	0.85
NP3T025	BP3T025	25	56	88	1.49
NP3T032	BP3T032	32	62	102	1.76
NP3T040	BP3T040	40	75	120	3.27
NP3T050	BP3T050	50	84	128	3.53



### 3000lb Threaded Coupling ASME B16.11

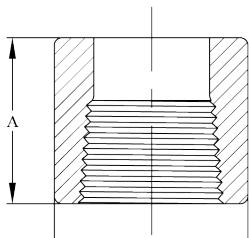
Code NPT Thread	Code BSP Thread	Size (mm)	A	B	Approx Weight
NP3CF008	BP3CF008	8	35	19	0.05
NP3CF010	BP3CF010	10	38	22	0.06
NP3CF015	BP3CF015	15	48	28	0.13
NP3CF020	BP3CF020	20	51	35	0.21
NP3CF025	BP3CF025	25	60	44	0.39
NP3CF032	BP3CF032	32	67	57	0.73
NP3CF040	BP3CF040	40	79	64	1.07
NP3CF050	BP3CF050	50	86	76	1.40
NP3CF065		65	92	92	2.34
NP3CF080		80	108	108	3.35



# THE SMARTER CHOICE.

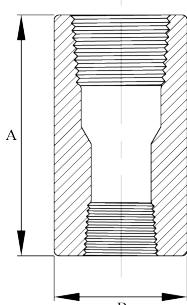
## METAL FITTINGS

### HIGH PRESSURE FITTINGS



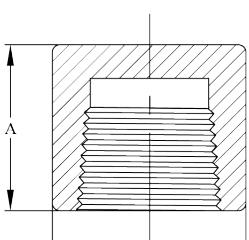
#### 3000lb Threaded Half Coupling ASME B16.11

Code NPT Thread	Size (mm)	A	B	Approx Weight
NP3CH008	8	19	19	0.02
NP3CH010	10	24	22	0.03
NP3CH015	15	24	28	0.07
NP3CH020	20	25.5	35	0.11
NP3CH025	25	30	44	0.19
NP3CH032	32	33.5	57	0.37
NP3CH040	40	39.5	64	0.50
NP3CH050	50	43	76	0.70



#### 3000lb Threaded Reducing Coupling ASME B16.11

Code NPT Thread	Size (mm)	A	B	Approx Weight
NP3CR020015	20 x 15	51	35	0.26
NP3CR025015	25 x 15	60	44	0.56
NP3CR025020	25 x 20	60	44	0.45
NP3CR032020	32 x 20	67	57	0.9
NP3CR032025	32 x 25	67	57	0.85
NP3CR040025	40 x 25	79	64	1.3
NP3CR040032	40 x 32	79	64	1.2
NP3CR050020	50 x 20	86	76	2.1
NP3CR050025	50 x 25	86	76	2.15
NP3CR050040	50 x 40	86	76	1.78



#### 3000lb Threaded Cap ASME B16.11

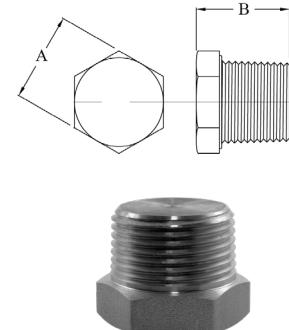
Code NPT Thread	Size (mm)	A	B	Approx Weight
NP3C010	10	25	22	0.05
NP3C015	15	32	28	0.10
NP3C020	20	37	35	0.20
NP3C025	25	41	44	0.35
NP3C032	32	44	57	0.62
NP3C040	40	44	64	0.79
NP3C050	50	48	76	1.09

# METAL FITTINGS

## HIGH PRESSURE FITTINGS

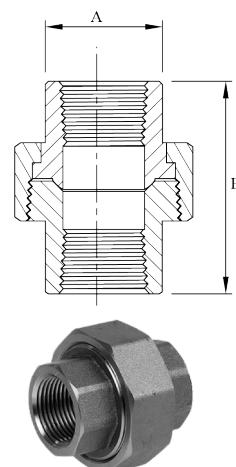
### 3000lb Hexagon Plug ASME B16.11

Code NPT Thread	Code BSP Thread	Size (mm)	A	B	Approx Weight
NP3P006		6	11.1	16	0.01
NP3P008		8	15.9	17	0.03
NP3P010		10	17.5	21	0.04
NP3P015	BP3P015	15	22.2	22	0.07
NP3P020	BP3P020	20	27	26	0.13
NP3P025	BP3P025	25	34.9	29	0.22
NP3P032	BP3P032	32	44.5	35	0.47
NP3P040	BP3P040	40	50.8	37	0.59
NP3P050	BP3P050	50	63.5	40	1.03
NP3P065		65	76.2	46	1.62



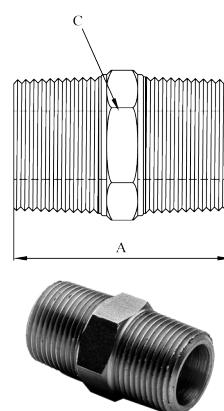
### 3000lb Threaded Union ASME B16.11

Code NPT Thread	Code BSP Thread	Size (mm)	A	B	Approx Weight
NP3U008	BP3U008	8	19	41.4	0.25
NP3U010	BP3U010	10	22.9	46	0.26
NP3U015	BP3U015	15	27.7	49	0.32
NP3U020	BP3U020	20	33.5	56.9	0.48
NP3U025	BP3U025	25	41.4	62	0.69
NP3U032	BP3U032	32	50.5	71.1	1.03
NP3U040	BP3U040	40	57.2	76.5	1.39
NP3U050	BP3U050	50	70.1	86.1	2.22



### 3000lb Hexagon Nipple ASME B16.11

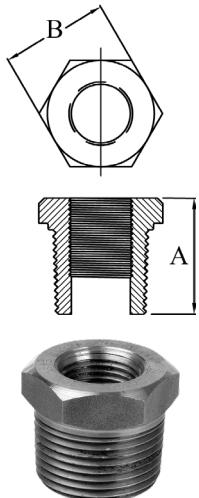
Code NPT Thread	Code BSP Thread	Size (mm)	A	C	Approx Weight
NP3N008		8	36	15	0.03
NP3N010		10	40	18	0.04
NP3N015	BP3N015	15	48	22	0.07
NP3N020	BP3N020	20	52	27	0.10
NP3N025	BP3N025	25	60	35	0.19
NP3N032	BP3N032	32	60	46	0.37
NP3N040	BP3N040	40	68	50	0.38
NP3N050	BP3N050	50	71	62	0.54



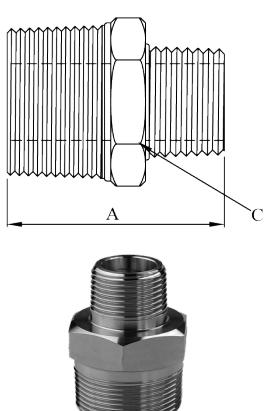
# THE SMARTER CHOICE.

## METAL FITTINGS

### HIGH PRESSURE FITTINGS



3000lb Hexagon Head Bush ASME B16.11					
Code NPT Thread	Code BSP Thread	Size (mm)	A	B	Approx Weight
NP3B010008		10 x 8	17	17.5	0.02
NP3B015008		15 x 8	19	22.2	0.05
NP3B015010	BP3B015010	15 x 10	19	22.2	0.03
NP3B020008		20 x 8	22	27	0.10
NP3B020015	BP3B020015	20 x 15	22	27	0.06
NP3B025008		25 x 8	25	34.9	0.19
NP3B025015	BP3B025015	25 x 15	25	34.9	0.15
NP3B025020	BP3B025020	25 x 20	25	34.9	0.11
NP3B032015	BP3B032015	32 x 15	28	44.5	0.32
NP3B032020	BP3B032020	32 x 20	28	44.5	0.25
NP3B032025	BP3B032025	32 x 25	28	44.5	0.20
NP3B040015		40 x 15	29	50.8	0.44
NP3B040020		40 x 20	29	50.8	0.40
NP3B040025	BP3B040025	40 x 25	29	50.8	0.31
NP3B040032	BP3B040032	40 x 32	31	50.8	0.18
NP3B050015		50 x 15	31	63.5	0.83
NP3B050020		50 x 20	31	63.5	0.76
NP3B050025		50 x 25	31	63.5	0.69
NP3B050032		50 x 32	31	63.5	0.55
NP3B050040	BP3B050040	50 x 40	31	63.5	0.41
NP3B080050		80 x 50	38	88.9	1.43



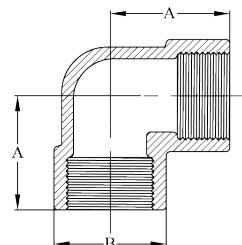
3000lb Reducing Hexagon Nipple ASME B16.11				
Code NPT Thread	Size (mm)	A	C	Approx Weight
NP3NR015008	15 x 8	43	22	0.08
NP3NR015010	15 x 10	44	22	0.07
NP3NR020015	20 x 15	50	27	0.12
NP3NR025015	25 x 15	55	35	0.23
NP3NR025020	25 x 20	56	35	0.20
NP3NR032015	32 x 15	55	46	0.45
NP3NR032020	32 x 20	55	46	0.39
NP3NR032025	32 x 25	60	46	0.38
NP3NR040015	40 x 15	62	50	0.60
NP3NR040020	40 x 20	63	50	0.55
NP3NR040025	40 x 25	67	50	0.52
NP3NR040032	40 x 32	68	50	0.62
NP3NR050040	50 x 40	70	62	0.80

# METAL FITTINGS

## HIGH PRESSURE FITTINGS

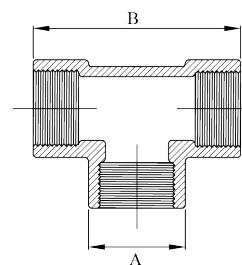
### 6000lb Threaded Female - Female Elbow 90° ASME B16.11

Code	Size (mm)	A	B	Approx Weight
NP6E015	15	38	46	0.80
NP6E020	20	44	56	1.31
NP6E025	25	51	62	1.61
NP6E040	40	64	84	3.79



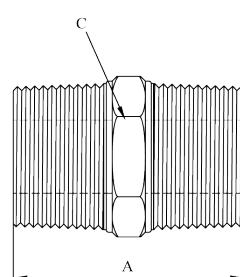
### 6000lb Threaded Equal Tee ASME B16.11

Code	Size (mm)	A	B	Approx Weight
NP6T015	15	46	76	0.98
NP6T020	20	56	88	1.65
NP6T025	25	62	102	2.17
NP6T040	40	84	128	4.71



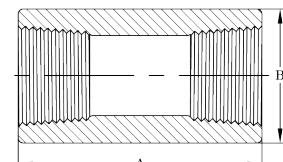
### 6000lb Hexagon Nipple ASME B16.11

Code	Size (mm)	A	C	Approx Weight
NP6N015	15	48	22	0.09
NP6N020	20	52	27	0.16
NP6N025	25	60	35	0.30
NP6N032	32	60	46	0.53
NP6N040	40	68	50	0.59
NP6N050	50	71	62	0.96



### 6000lb Threaded Coupling ASME B16.11

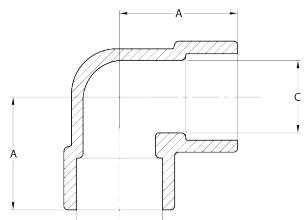
Code	Size (mm)	A	B	Approx Weight
NP6CF008	8	35	25	0.10
NP6CF015	15	48	38	0.32
NP6CF020	20	51	44	0.49
NP6CF025	25	60	57	0.87
NP6CF032	32	67	64	1.09
NP6CF040	40	79	76	1.94
NP6CF050	50	86	92	2.87



**THE SMARTER CHOICE.**

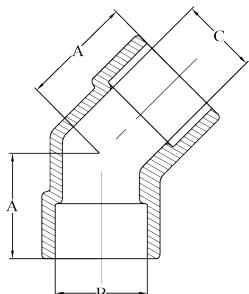
## METAL FITTINGS

### HIGH PRESSURE FITTINGS



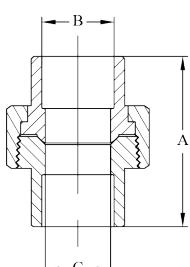
**3000lb Socket Weld Elbow 90° ASME B16.11**

Code	Size (mm)	A	B	C	Approx Weight
SW3E008	8	20.5	14.2	9.3	0.08
SW3E010	10	23.0	17.6	12.6	0.11
SW3E015	15	25.0	21.8	15.8	0.23
SW3E020	20	31.5	27.2	21.0	0.31
SW3E025	25	35.0	33.9	26.7	0.50
SW3E032	32	39.5	42.7	35.1	0.84
SW3E040	40	44.5	48.8	40.9	1.00
SW3E050	50	54.0	61.2	52.5	1.63
SW3E065	65	57.0	73.9	62.7	3.36
SW3E080	80	73.0	89.8	78.0	5.00



**3000lb Socket Weld Elbow 45° ASME B16.11**

Code	Size (mm)	A	B	C	Approx Weight
SW3E45008	8	17.5	14.2	9.3	0.08
SW3E45010	10	17.5	17.6	12.6	0.09
SW3E45015	15	20.5	21.8	15.8	0.20
SW3E45020	20	25.5	27.2	21	0.26
SW3E45025	25	26.5	33.9	26.7	0.43
SW3E45032	32	30	42.7	35.1	0.69
SW3E45040	40	33	48.8	40.9	0.79
SW3E45050	50	41.5	61.2	52.5	1.35
SW3E45065	65	44.5	73.9	62.7	2.53



**3000lb Socket Weld Union ASME B16.11**

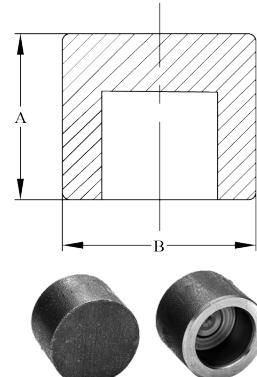
Code	Size (mm)	A	B	C	Approx Weight
SW3U010	10	46.0	18.03	13.28	0.25
SW3U015	15	49.0	22.23	16.56	0.35
SW3U020	20	56.9	27.56	21.69	0.49
SW3U025	25	62.0	34.29	27.41	0.76
SW3U032	32	71.1	43.05	35.81	1.10
SW3U040	40	76.5	49.15	41.66	1.45
SW3U050	50	86.1	61.62	53.26	2.38

# METAL FITTINGS

## HIGH PRESSURE FITTINGS

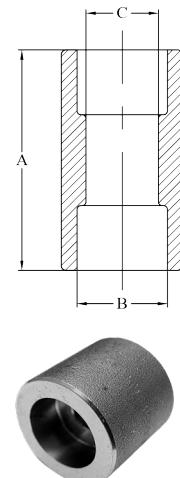
### 3000lb Socket Weld Cap ASME B16.11

Code	Size (mm)	A	B	Approx Weight
SW3C015	15	15.9	31.14	0.11
SW3C020	20	18.9	37.00	0.16
SW3C025	25	22.1	45.28	0.25
SW3C032	32	22.1	54.84	0.45
SW3C040	40	23.7	61.50	0.59
SW3C050	50	28.7	75.06	0.96



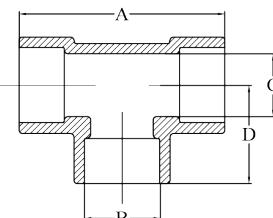
### 3000lb Socket Weld Coupling ASME B16.11

Code	Size (mm)	A	B	C	Approx Weight
SW3CF008	8	25.5	14.2	9.3	0.05
SW3CF010	10	25.5	17.6	12.6	0.07
SW3CF015	15	28.5	21.8	15.8	0.13
SW3CF020	20	34.5	27.2	21.0	0.19
SW3CF025	25	37.5	33.9	26.7	0.30
SW3CF032	32	37.5	42.7	35.1	0.41
SW3CF040	40	37.5	48.8	40.9	0.48
SW3CF050	50	51.0	61.2	52.5	0.86
SW3CF065	65	51.0	73.9	62.7	1.40
SW3CF080	80	51.0	89.8	78.0	1.98



### 3000lb Socket Weld Tee ASME B16.11

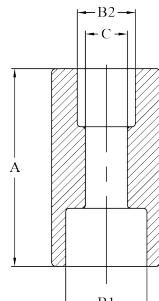
Code	Size (mm)	A	B	C	D	Approx Weight
SW3T008	8	41	14.2	9.3	20.5	0.11
SW3T010	10	46	17.6	12.6	23.0	0.15
SW3T015	15	50	21.8	15.8	25.0	0.32
SW3T020	20	63	27.2	21.0	31.5	0.41
SW3T025	25	70	33.9	26.7	35.0	0.64
SW3T032	32	79	42.7	35.1	39.5	1.04
SW3T040	40	89	48.8	40.9	44.5	1.22
SW3T050	50	108	61.2	52.5	54.0	2.04



**THE SMARTER CHOICE.**

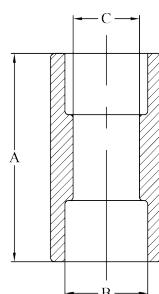
## METAL FITTINGS

### HIGH PRESSURE FITTINGS



**3000lb Socket Weld Reducing Coupling ASME B16.11**

Code	Size (mm)	A	B1	B2	C	Approx Weight
SW3CR015010	15 x 10	28.5	21.8	17.6	12.6	0.23
SW3CR020015	20 x 15	34.5	27.2	21.8	15.8	0.21
SW3CR025015	25 x 15	37.5	33.9	21.8	15.8	0.39
SW3CR025020	25 x 20	37.5	33.9	27.2	21.0	0.35
SW3CR032015	32 x 15	37.5	42.7	21.8	15.8	0.67
SW3CR032020	32 x 20	37.5	42.7	27.2	21.0	0.64
SW3CR032025	32 x 25	37.5	42.7	33.9	26.7	0.57
SW3CR040015	40 x 15	37.5	48.8	21.8	15.8	0.85
SW3CR040020	40 x 20	37.5	48.8	27.2	21.0	0.81
SW3CR040025	40 x 25	37.5	48.8	33.9	26.7	0.77
SW3CR040032	40 x 32	37.5	48.8	42.7	35.1	0.63
SW3CR050015	50 x 15	51.0	61.2	21.8	15.8	1.66
SW3CR050020	50 x 20	51.0	61.2	27.2	21.0	1.72
SW3CR050025	50 x 25	51.0	61.2	33.9	26.7	1.54
SW3CR050032	50 x 32	51.0	61.2	42.7	35.1	1.35
SW3CR050040	50 x 40	51.0	61.2	48.8	40.9	1.26



**6000lb Socket Weld Coupling ASME B16.11**

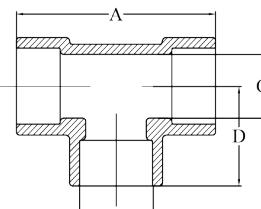
Code	Size (mm)	A	B	C	Approx Weight
SW6CF015	15	28.5	21.8	11.8	0.17
SW6CF020	20	34.5	27.2	15.6	0.27
SW6CF025	25	37.5	33.9	20.7	0.44
SW6CF032	32	37.5	42.7	29.5	0.58
SW6CF040	40	37.5	48.8	34.0	0.76
SW6CF050	50	51.0	61.2	42.9	1.62

# METAL FITTINGS

## HIGH PRESSURE FITTINGS

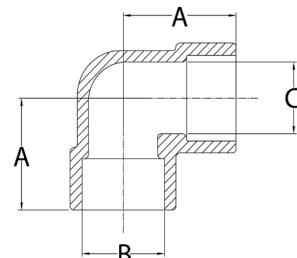
### 6000lb Socket Weld Tee ASME B16.11

Code	Size (mm)	A	B	C	D	Approx Weight
SW6T015	15	57	21.8	11.8	28.5	0.56
SW6T020	20	70	27.2	15.6	35.0	0.94
SW6T025	25	79	33.9	20.7	39.5	1.49
SW6T040	40	101	48.8	34.0	50.5	3.37
SW6T050	50	114	61.2	42.9	57.0	3.95



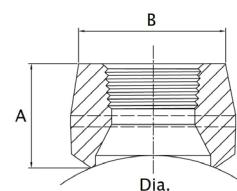
### 6000lb Socket Weld Elbow 90° ASME B16.11

Code	Size (mm)	A	B	C	Approx Weight
SW6E015	15	28.5	21.8	11.8	0.44
SW6E020	20	35	27.2	15.6	0.73
SW6E025	25	39.5	33.9	20.7	1.21
SW6E040	40	50.5	48.8	34	2.79



### 3000lb Threaded Branch Outlet ASME B31.1 & MSS-SP97

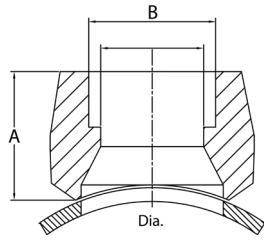
Code NPT Thread	Code BSP Thread	Size (mm)	A	B	Approx Weight
TOLN008	TOLB008	8	19.0	22.0	0.06
	TOLB010	10	20.6	25.9	0.10
TOLN015	TOLB015	15	25.4	31.4	0.13
TOLN020	TOLB020	20	26.9	37.1	0.22
TOLN025	TOLB025	25	33.3	45.5	0.37
TOLN032	TOLB032	32	33.3	57.0	0.42
TOLN040	TOLB040	40	35.0	64.0	0.64
TOLN050	TOLB050	50	38.1	76.0	0.89



**THE SMARTER CHOICE.**

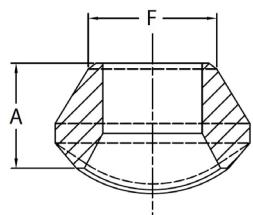
## METAL FITTINGS

### HIGH PRESSURE FITTINGS



**3000lb Socket Weld Branch Outlet  
ASME B31.1 & MSS-SP97**

Code	Size (mm)	A	B	Approx Weight
TOLN008	8	19.0	22.0	0.06
TOLN010	10	20.6	25.9	0.10
TOLN015	15	25.4	31.4	0.13
TOLN020	20	26.9	37.1	0.22
TOLN025	25	33.3	45.5	0.37
TOLN032	32	33.3	57.0	0.42
TOLN040	40	35.0	64.0	0.64
TOLN050	50	38.1	76.0	0.89



**3000lb Butt Weld Branch Outlet  
ASME B31.1 & MSS-SP97**

Code	Size (mm)	A	F	Approx Weight
WOL015	15	19.1	21.3	0.09
WOL020	20	22.4	26.7	0.17
WOL025	25	26.9	33.4	0.28
WOL032	32	31.8	42.2	0.42
WOL040	40	33.3	48.3	0.64
WOL050	50	38.1	60.3	0.87
WOL065	65	41.1	73.0	1.21
WOL080	80	44.4	88.9	1.98
WOL100	100	50.8	114.3	3.13

# METAL FITTINGS

## BUTT WELD FITTINGS

Asmuss stocks Butt Weld fittings made from high quality carbon alloy steel to ASTM A234 which can be used in various piping systems.

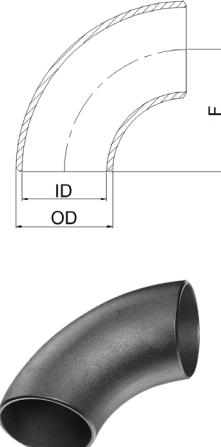
The advantages of Butt Weld include:

- Welding a fitting to the pipe means that it is permanently leak proof.
- The continuous metal structure formed between the pipe and fitting adds strength to the system.
- Smoother inner surface and gradual direction changed reduce the pressure losses and turbulence and minimises the action of corrosion and abrasion.
- A welded system utilises minimal space.

We now stock a range of Shell Approved Butt Weld fittings; please check requirements with our sales team.

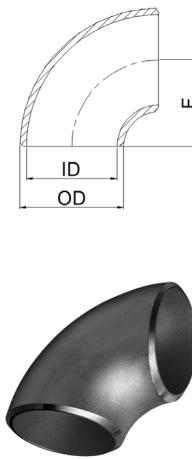
### Long Radius Elbow 90° Lightweight JIS B 2311

Code	NB (mm)	OD	ID	F	T	Approx Weight
BWE90L025	25	34.0	27.6	38.1	3.2	0.15
BWE90L032	32	42.7	35.7	47.6	3.5	0.25
BWE90L040	40	48.6	41.6	57.2	3.5	0.35
BWE90L050	50	60.5	52.9	76.2	3.8	0.63
BWE90L065	65	76.3	67.9	95.3	4.2	1.12
BWE90L080	80	89.1	80.7	114.3	4.2	1.58
BWE90L100	100	114.3	105.3	152.4	4.5	2.91
BWE90L125	125	139.8	130.8	190.5	4.5	4.49
BWE90L150	150	165.2	155.2	228.6	5.0	7.09
BWE90L200	200	216.3	204.7	304.8	5.8	14.40
BWE90L250	250	267.4	254.2	381.0	6.6	25.40
BWE90L300	300	318.5	304.7	457.2	6.9	38.10
BWE90L350	350	355.6	339.8	533.4	7.9	56.70
BWE90L400	400	406.4	390.6	609.9	7.9	63.00



### Short Radius Elbow 90° Lightweight JIS B 2311

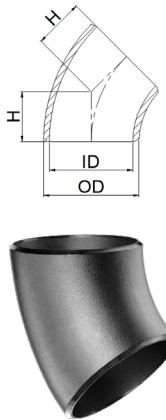
Code	NB (mm)	OD	ID	F	T	Approx Weight
BWES90L065	65	76.3	67.9	63.5	4.2	0.75
BWES90L080	80	89.1	80.7	76.2	4.2	1.05
BWES90L100	100	114.3	105.3	101.6	4.5	1.94
BWES90L125	125	139.8	130.8	127.0	4.5	2.71
BWES90L150	150	165.2	155.2	152.4	5.0	5.40
BWES90L200	200	216.3	204.7	203.2	5.8	9.61
BWES90L250	250	267.4	254.2	254.0	6.6	16.90
BWES90L300	300	318.5	304.7	304.8	6.9	25.40



**THE SMARTER CHOICE.**

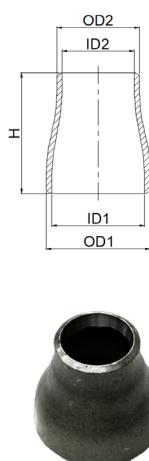
## METAL FITTINGS

### BUTT WELD FITTINGS



**Long Radius Elbow 45° Lightweight JIS B 2311**

Code	NB (mm)	OD	ID	H	T	Approx Weight
BWE45L050	50	60.5	52.9	31.6	3.8	0.55
BWE45L065	65	76.3	67.9	39.5	4.2	0.55
BWE45L080	80	89.1	80.7	47.3	4.2	0.90
BWE45L100	100	114.3	105.3	63.1	4.5	1.59
BWE45L125	125	139.8	130.8	78.9	4.5	2.86
BWE45L150	150	165.2	155.2	94.7	5.0	4.14
BWE45L200	200	216.3	204.7	126.3	5.8	2.60
BWE45L250	250	267.4	254.2	157.8	6.6	4.70
BWE45L300	300	318.5	304.7	189.4	6.9	6.80



**Concentric Reducer Lightweight JIS B 2311**

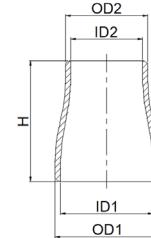
Code	NB (mm)	OD1	ID1	OD2	ID2	H	T1	T2	Approx KG/3
BWRCL032025	32 x 25	42.7	35.7	34.0	27.6	50.8	3.5	3.2	0.16
BWRCL040025	40 x 25	48.6	41.6	34.0	27.6	63.5	3.5	3.2	0.22
BWRCL050025	50 x 25	60.5	52.9	34.0	27.6	76.2	3.8	3.2	0.32
BWRCL050032	50 x 32	60.5	52.9	42.7	35.7	76.2	3.8	3.5	0.35
BWRCL050040	50 x 40	60.5	52.9	48.6	41.6	76.2	3.8	3.5	0.37
BWRCL065040	65 x 40	76.3	67.9	48.6	41.6	88.9	4.2	3.5	0.45
BWRCL080050	80 x 50	89.1	80.7	60.5	52.9	88.9	4.2	3.8	0.66
BWRCL080065	80 x 65	89.1	80.7	76.3	67.9	88.9	4.2	4.2	0.73
BWRCL100040	100 x 40	114.3	105.3	48.6	41.6	101.6	4.5	3.5	0.80
BWRCL100050	100 x 50	114.3	105.3	60.5	52.9	101.6	4.5	3.8	0.97
BWRCL100065	100 x 65	114.3	105.3	76.3	67.9	101.6	4.5	4.2	1.04
BWRCL100080	100 x 80	114.3	105.3	89.1	80.7	101.6	4.5	4.2	1.10
BWRCL125065	125 x 65	139.8	130.8	76.3	67.9	127.0	4.5	4.2	1.50
BWRCL125080	125 x 80	139.8	130.8	89.1	80.7	127.0	4.5	4.2	1.58
BWRCL125080	125 x 80	139.8	130.8	89.1	80.7	127.0	4.5	4.2	1.58
BWRCL125100	125 x 100	139.8	130.8	114.3	105.3	127.0	4.5	4.5	1.74
BWRCL150065	150 x 65	165.2	155.2	76.3	67.9	139.7	5.0	4.2	2.09
BWRCL150080	150 x 80	165.2	155.2	89.1	80.7	139.7	5.0	4.2	2.22

# METAL FITTINGS

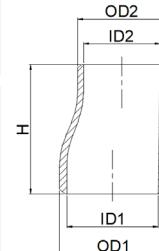
## BUTT WELD FITTINGS

**Concentric Reducer Lightweight JIS B 2311 (continued)**

Code	NB (mm)	OD1	ID1	OD2	ID2	H	T1	T2	Approx KG/3
BWRCL150100	150 x 100	165.2	155.2	114.3	105.3	139.7	5.0	4.5	2.36
BWRCL150125	150 x 125	165.2	155.2	139.8	130.8	139.7	5.0	4.5	2.55
BWRCL200080	200 x 80	216.3	204.7	89.1	80.7	152.4	5.8	4.2	0.00
BWRCL200100	200 x 100	216.3	204.7	114.3	105.3	152.4	5.8	4.5	3.67
BWRCL200125	200 x 125	216.3	204.7	139.8	130.8	152.4	5.8	4.5	3.87
BWRCL200150	200 x 150	216.3	204.7	165.2	155.2	152.4	5.8	5.0	4.17
BWRCL250150	250 x 150	267.4	254.2	165.2	155.2	177.8	6.6	5.0	6.32
BWRCL250200	250 x 200	267.4	254.2	216.3	204.7	177.8	6.6	5.8	6.87
BWRCL300150	300 x 150	318.5	304.7	165.2	155.2	203.2	6.9	5.0	7.24
BWRCL300200	300 x 200	318.5	304.7	216.3	204.7	203.2	6.9	5.8	9.29
BWRCL300250	300 x 250	318.5	304.7	267.4	254.2	203.2	6.9	6.6	9.97


**Eccentric Reducer Lightweight JIS B2311**

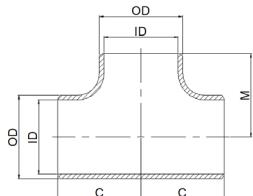
Code	NB (mm)	OD1	ID1	OD2	ID2	H	T1	T2	Approx KG/3
BWREL080050	80 x 50	89.1	80.7	60.5	52.9	88.9	4.2	3.8	1.00
BWREL080065	80 x 65	89.1	80.7	76.3	67.9	88.9	4.2	4.2	0.73
BWREL100065	100 x 65	114.3	105.3	76.3	67.9	101.6	4.5	4.2	1.04
BWREL100080	100 x 80	114.3	105.3	89.1	80.7	101.6	4.5	4.2	1.60
BWREL125065	125 x 65	139.8	130.8	76.3	67.9	127.0	4.5	4.2	1.50
BWREL125080	125 x 80	139.8	130.8	89.1	80.7	127.0	4.5	4.2	1.58
BWREL125100	125 x 100	139.8	130.8	114.3	105.3	127.0	4.5	4.5	2.72
BWREL150080	150 x 80	165.2	155.2	89.1	80.7	139.7	5.0	4.2	2.25
BWREL150100	150 x 100	165.2	155.2	114.3	105.3	139.7	5.0	4.5	2.36
BWREL150125	150 x 125	165.2	155.2	139.8	130.8	139.7	5.0	4.5	2.55
BWREL200100	200 x 100	216.3	204.7	114.3	105.3	152.4	5.8	4.5	3.67
BWREL200125	200 x 125	216.3	204.7	139.8	130.8	152.4	5.8	4.5	3.87
BWREL200150	200 x 150	216.3	204.7	165.2	155.2	152.4	5.8	5.0	4.17
BWREL250150	250 x 150	267.4	254.2	165.2	155.2	177.8	6.6	5.0	6.32
BWREL250200	250 x 200	267.4	254.2	216.3	204.7	177.8	6.6	5.8	6.87
BWREL300250	300 x 250	318.5	304.7	267.4	254.2	203.2	6.9	6.6	9.97



**THE SMARTER CHOICE.**

## METAL FITTINGS

### BUTT WELD FITTINGS



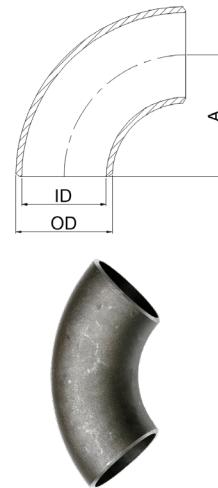
**Equal Tee Lightweight JIS B 2311**

Code	NB (mm)	OD	ID	C, M	T	Approx Weight
BWTL050	50	60.5	52.9	63.5	3.8	0.76
BWTL065	65	76.3	67.9	76.2	4.2	1.42
BWTL080	80	89.1	80.7	85.7	4.2	1.87
BWTL100	100	114.3	105.3	104.8	4.5	3.13
BWTL125	125	139.8	130.8	123.8	4.5	7.50
BWTL150	150	165.2	155.2	142.9	5.0	6.84
BWTL200	200	216.3	204.7	177.8	5.8	12.80
BWTL250	250	267.4	254.2	215.9	6.6	21.80
BWTL300	300	318.5	304.7	254.0	6.9	32.00

# METAL FITTINGS

## BUTT WELD FITTINGS

Long Radius Elbow 90° STD Weight ASTM A234 WPB ANSI B16.9						
Code	NB (mm)	OD	ID	A	T	Approx Weight
BWE90015	15	21.3	15.8	38	2.8	0.08
BWE90020	20	26.7	21.0	38	2.9	0.08
BWE90025	25	33.4	26.6	38	3.4	0.15
BWE90032	32	42.2	35.1	48	3.6	0.25
BWE90040	40	48.3	40.9	57	3.7	0.36
BWE90050	50	60.3	52.5	76	3.9	0.65
BWE90065	65	73.0	62.7	95	5.2	1.29
BWE90080	80	88.9	77.9	114	5.5	2.02
BWE90090	90	101.6	90.1	133	5.7	2.84
BWE90100	100	114.3	102.3	152	6.0	3.84
BWE90125	125	141.3	128.2	190	6.6	6.51
BWE90150	150	168.3	154.1	229	7.1	10.10
BWE90200	200	219.1	202.7	305	8.2	20.30
BWE90250	250	273.0	254.5	381	9.3	36.00
BWE90300	300	323.8	304.7	457	9.5	53.00
BWE90350	350	355.6	336.5	533	9.5	68.00
BWE90400	400	406.4	387.3	610	9.5	89.20
BWE90450	450	457.0	437.9	686	9.5	113.00
BWE90500	500	508.0	488.9	762	9.5	140.00



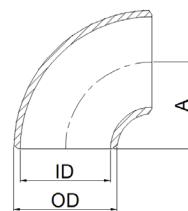
# THE SMARTER CHOICE.

## METAL FITTINGS

### BUTT WELD FITTINGS

**Short Radius Elbow 90° STD Weight  
ASTM A234 WPB ANSI B16.9**

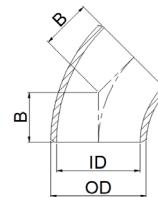
Code	NB (mm)	OD	ID	A	T	Approx Weight
BWES90020	20	26.7	21.0		2.9	0.11
BWES90025	25	33.4	26.6	25	3.4	0.10
BWES90032	32	42.2	35.1	32	3.6	0.17
BWES90040	40	48.3	40.9	38	3.7	0.25
BWES90050	50	60.3	52.5	51	3.9	0.45
BWES90065	65	73.0	62.7	64	5.2	0.90
BWES90080	80	88.9	77.9	76	5.5	1.37
BWES90090	90	101.6	90.1	89	5.7	3.84
BWES90100	100	114.3	102.3	102	6.0	2.60
BWES90125	125	141.3	128.2	127	6.6	4.35
BWES90150	150	168.3	154.1	152	7.1	6.70
BWES90200	200	219.1	202.7	203	8.2	13.60
BWES90250	250	273.0	254.5	254	9.3	24.00
BWES90300	300	323.8	304.7	305	9.5	35.30
BWES90400	400	406.4	387.3	406	9.5	59.50



# METAL FITTINGS

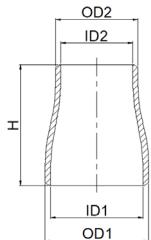
## BUTT WELD FITTINGS

Long Radius Elbow 45° STD Weight ASTM A234 WPB ANSI B16.9						
Code	NB (mm)	OD	ID	B	T	Approx Weight
BWE45015	15	21.3	15.8	16	2.8	0.04
BWE45020	20	26.7	21.0	19	2.9	0.04
BWE45025	25	33.4	26.6	22	3.4	0.08
BWE45032	32	42.2	35.1	25	3.6	0.13
BWE45040	40	48.3	40.9	29	3.7	0.18
BWE45050	50	60.3	52.5	35	3.9	0.33
BWE45065	65	73.0	62.7	44	5.2	0.65
BWE45080	80	88.9	77.9	51	5.5	1.01
BWE45100	100	114.3	102.3	64	6.0	1.92
BWE45125	125	141.3	128.2	79	6.6	3.26
BWE45150	150	168.3	154.1	95	7.1	5.05
BWE45200	200	219.1	202.7	127	8.2	10.20
BWE45250	250	273.0	254.5	159	9.3	18.00
BWE45300	300	323.8	304.7	190	9.5	26.50
BWE45350	350	355.6	336.5	222	9.5	34.00
BWE45400	400	406.4	387.3	254	9.5	44.60
BWE45500	500	508.0	488.9	318	9.5	70.00
BWE45600	600	610.0	590.9	381	9.5	100.90



## METAL FITTINGS

### BUTT WELD FITTINGS



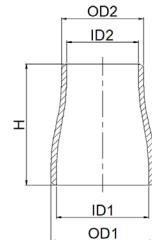
**Concentric Reducer STD Weight ASTM A234 WPB ANSI B16.9**

Code	NB (mm)	OD1	ID1	OD2	ID2	H	T1	T2	Approx Weight
BWRC020015	20 x 15	26.7	21.0	21.3	15.8	38	2.9	2.8	0.06
BWRC025015	25 x 15	33.4	26.6	21.3	15.8	51	3.4	2.8	0.11
BWRC025020	25 x 20	33.4	26.6	26.7	21.0	51	3.4	2.9	0.12
BWRC032015	32 x 15	42.2	35.1	21.3	15.8	51	3.6	2.8	0.13
BWRC032020	32 x 20	42.2	35.1	26.7	21.0	51	3.6	2.9	0.14
BWRC032025	32 x 25	42.2	35.1	33.4	26.6	51	3.6	3.4	0.16
BWRC040015	40 x 15	48.3	40.9	21.3	15.8	64	3.7	2.8	0.20
BWRC040020	40 x 20	48.3	40.9	26.7	21.0	64	3.7	2.9	0.22
BWRC040025	40 x 25	48.3	40.9	33.4	26.6	64	3.7	3.4	0.22
BWRC040032	40 x 32	48.3	40.9	42.2	35.1	64	3.7	3.6	0.24
BWRC050015	50 x 15	60.3	52.5	21.3	15.8	76	3.9	2.8	0.30
BWRC050020	50 x 20	60.3	52.5	26.7	21.0	76	3.9	2.9	0.30
BWRC050025	50 x 25	60.3	52.5	33.4	26.6	76	3.9	3.4	0.32
BWRC050032	50 x 32	60.3	52.5	42.2	35.1	76	3.9	3.6	0.35
BWRC050040	50 x 40	60.3	52.5	48.3	40.9	76	3.9	3.7	0.37
BWRC065020	65 x 20	73.0	62.7	26.7	21.0	89	5.2	2.9	0.56
BWRC065025	65 x 25	73.0	62.7	33.4	26.6	89	5.2	3.4	0.59
BWRC065032	65 x 32	73.0	62.7	42.2	35.1	89	5.2	3.6	0.63
BWRC065040	65 x 40	73.0	62.7	48.3	40.9	89	5.2	3.7	0.66
BWRC065050	65 x 50	73.0	62.7	60.3	52.5	89	5.2	3.9	0.72
BWRC080025	80 x 25	88.9	77.9	33.4	26.6	89	5.5	3.4	0.50
BWRC080032	80 x 32	88.9	77.9	42.2	35.1	89	5.5	3.6	0.75
BWRC080040	80 x 40	88.9	77.9	48.3	40.9	89	5.5	3.7	0.78
BWRC080050	80 x 50	88.9	77.9	60.3	52.5	89	5.5	3.9	0.85
BWRC080065	80 x 65	88.9	77.9	73.0	62.7	89	5.5	5.2	0.93
BWRC100040	100 x 40	114.3	102.3	48.3	40.9	102	6.0	3.7	1.27
BWRC100050	100 x 50	114.3	102.3	60.3	52.5	102	6.0	3.9	1.27
BWRC100065	100 x 65	114.3	102.3	73.0	62.7	102	6.0	5.2	1.37
BWRC100080	100 x 80	114.3	102.3	88.9	77.9	102	6.0	5.5	1.45
BWRC125065	125 x 65	141.3	128.2	73.0	62.7	127	6.6	5.2	2.16
BWRC125080	125 x 80	141.3	128.2	88.9	77.9	127	6.6	5.5	2.27
BWRC125100	125 x 100	141.3	128.2	114.3	102.3	127	6.6	6.0	2.50

# METAL FITTINGS

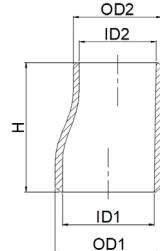
## BUTT WELD FITTINGS

Concentric Reducer STD Weight ASTM A234 WPB ANSI B16.9 (continued)									
Code	NB (mm)	OD1	ID1	OD2	ID2	H	T1	T2	Approx Weight
BWRC150050	150 x 50	168.3	154.1	60.3	52.5	140	7.1	3.9	2.50
BWRC150065	150 x 65	168.3	154.1	73.0	62.7	140	7.1	5.2	2.92
BWRC150080	150 x 80	168.3	154.1	88.9	77.9	140	7.1	5.5	3.04
BWRC150100	150 x 100	168.3	154.1	114.3	102.3	140	7.1	6.0	3.30
BWRC150125	150 x 125	168.3	154.1	141.3	128.2	140	7.1	6.6	3.57
BWRC200080	200 x 80	219.1	202.7	88.9	77.9	152	8.2	5.5	4.97
BWRC200100	200 x 100	219.1	202.7	114.3	102.3	152	8.2	6.0	5.10
BWRC200125	200 x 125	219.1	202.7	141.3	128.2	152	8.2	6.6	5.40
BWRC200150	200 x 150	219.1	202.7	168.3	154.1	152	8.2	7.1	5.71
BWRC250100	250 x 100	273.0	254.5	114.3	102.3	178	9.3	6.0	8.06
BWRC250125	250 x 125	273.0	254.5	141.3	128.2	178	9.3	6.6	10.50
BWRC250150	250 x 150	273.0	254.5	168.3	154.1	178	9.3	7.1	8.78
BWRC250200	250 x 200	273.0	254.5	219.1	202.7	178	9.3	8.2	9.58
BWRC300150	300 x 150	323.8	304.7	168.3	154.1	203	9.5	7.1	11.80
BWRC300200	300 x 200	323.8	304.7	219.1	202.7	203	9.5	8.2	12.70
BWRC300250	300 x 250	323.8	304.7	273.0	254.5	203	9.5	9.3	13.60
BWRC350150	350 x 150	355.6	336.5	168.3	154.1	330	9.5	7.1	25.00
BWRC350200	350 x 200	355.6	336.5	219.1	202.7	330	9.5	8.2	21.80
BWRC350250	350 x 250	355.6	336.5	273.0	254.5	330	9.5	9.3	23.60
BWRC350300	350 x 300	355.6	336.5	323.8	304.7	330	9.5	9.5	25.40
BWRC400200	400 x 200	406.4	387.3	219.1	202.7	356	9.5	8.2	25.60
BWRC400250	400 x 250	406.4	387.3	273.0	254.5	356	9.5	9.3	27.80
BWRC400300	400 x 300	406.4	387.3	323.8	304.7	356	9.5	9.5	29.60
BWRC400350	400 x 350	406.4	387.3	355.6	336.5	356	9.5	9.5	31.00
BWRC450250	450 x 250	457.0	437.9	273.0	254.5	381	9.5	9.3	31.60
BWRC450300	450 x 300	457.0	437.9	323.8	304.7	381	9.5	9.5	34.30
BWRC450350	450 x 350	457.0	437.9	355.6	336.5	381	9.5	9.5	35.70
BWRC450400	450 x 400	457.0	437.9	406.4	387.3	381	9.5	9.5	37.80
BWRC500300	500 x 300	508.0	488.9	323.8	304.7	508	9.5	9.5	56.30
BWRC500400	500 x 400	508.0	488.9	406.4	387.3	508	9.5	9.5	56.00
BWRC500450	500 x 450	508.0	488.9	457.0	437.9	508	9.5	9.5	60.00
BWRC600400	600 x 400	610.0	590.9	406.4	387.3	508	9.5	9.5	68.40



## METAL FITTINGS

### BUTT WELD FITTINGS



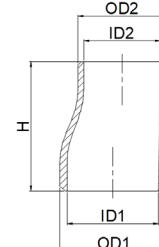
Eccentric Reducer STD Weight ASTM A234 WPB ANSI B16.9									
Code	NB (mm)	OD1	ID1	OD2	ID2	H	T1	T2	Approx Weight
BWRE020015	20 x 15	26.7	21.0	21.3	15.8	38	2.9	2.8	0.06
BWRE025015	25 x 15	33.4	26.6	21.3	15.8	51	3.4	2.8	1.05
BWRE025020	25 x 20	33.4	26.6	26.7	21.0	51	3.4	2.9	1.16
BWRE032015	32 x 15	42.2	35.1	21.3	15.8	51	3.6	2.8	0.13
BWRE032020	32 x 20	42.2	35.1	26.7	21.0	51	3.6	2.9	0.14
BWRE032025	32 x 25	42.2	35.1	33.4	26.6	51	3.6	3.4	0.16
BWRE040015	40 x 15	48.3	40.9	21.3	15.8	64	3.7	2.8	0.20
BWRE040020	40 x 20	48.3	40.9	26.7	21.0	64	3.7	2.9	0.20
BWRE040025	40 x 25	48.3	40.9	33.4	26.6	64	3.7	3.4	0.22
BWRE040032	40 x 32	48.3	40.9	42.2	35.1	64	3.7	3.6	0.24
BWRE050015	50 x 15	60.3	52.5	21.3	15.8	76	3.9	2.8	0.37
BWRE050020	50 x 20	60.3	52.5	26.7	21.0	76	3.9	2.9	0.30
BWRE050025	50 x 25	60.3	52.5	33.4	26.6	76	3.9	3.4	0.32
BWRE050032	50 x 32	60.3	52.5	42.2	35.1	76	3.9	3.6	0.35
BWRE050040	50 x 40	60.3	52.5	48.3	40.9	76	3.9	3.7	0.37
BWRE065025	65 x 25	73.0	62.7	33.4	26.6	89	5.2	3.4	0.59
BWRE065032	65 x 32	73.0	62.7	42.2	35.1	89	5.2	3.6	0.63
BWRE065040	65 x 40	73.0	62.7	48.3	40.9	89	5.2	3.7	0.66
BWRE065050	65 x 50	73.0	62.7	60.3	52.5	89	5.2	3.9	0.72
BWRE080025	80 x 25	88.9	77.9	33.4	26.6	89	5.5	3.4	0.70
BWRE080032	80 x 32	88.9	77.9	42.2	35.1	89	5.5	3.6	0.75
BWRE080040	80 x 40	88.9	77.9	48.3	40.9	89	5.5	3.7	0.78
BWRE080050	80 x 50	88.9	77.9	60.3	52.5	89	5.5	3.9	0.85
BWRE080065	80 x 65	88.9	77.9	73.0	62.7	89	5.5	5.2	0.93
BWRE100032	100 x 32	114.3	102.3	42.2	35.1	102	6.0	3.6	1.05
BWRE100040	100 x 40	114.3	102.3	48.3	40.9	102	6.0	3.7	1.16
BWRE100050	100 x 50	114.3	102.3	60.3	52.5	102	6.0	3.9	1.27

# METAL FITTINGS

## BUTT WELD FITTINGS

**Eccentric Reducer STD Weight ASTM A234 WPB ANSI B16.9  
(continued)**

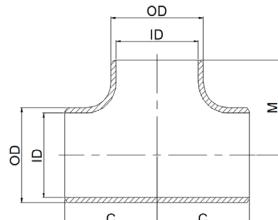
Code	NB (mm)	OD1	ID1	OD2	ID2	H	T1	T2	Approx Weight
BWRE100065	100 x 65	114.3	102.3	73.0	62.7	102	6.0	5.2	1.37
BWRE100080	100 x 80	114.3	102.3	88.9	77.9	102	6.0	5.5	1.45
BWRE125080	125 x 80	141.3	128.2	88.9	77.9	127	6.6	5.5	2.27
BWRE125100	125 x 100	141.3	128.2	114.3	102.3	127	6.6	6.0	2.50
BWRE150080	150 x 80	168.3	154.1	88.9	77.9	140	7.1	5.5	3.04
BWRE150100	150 x 100	168.3	154.1	114.3	102.3	140	7.1	6.0	3.30
BWRE150125	150 x 125	168.3	154.1	141.3	128.2	140	7.1	6.6	3.57
BWRE200100	200 x 100	219.1	202.7	114.3	102.3	152	8.2	6.0	5.10
BWRE200125	200 x 125	219.1	202.7	141.3	128.2	152	8.2	6.6	5.40
BWRE200150	200 x 150	219.1	202.7	168.3	154.1	152	8.2	7.1	5.71
BWRE250150	250 x 150	273.0	254.5	168.3	154.1	178	9.3	7.1	8.78
BWRE250200	250 x 200	273.0	254.5	219.1	202.7	178	9.3	8.2	9.58
BWRE300100	300 x 100	323.8	304.7	114.3	102.3	203	9.5	6.0	13.90
BWRE300150	300 x 150	323.8	304.7	168.3	154.1	203	9.5	7.1	11.80
BWRE300200	300 x 200	323.8	304.7	219.1	202.7	203	9.5	8.2	12.70
BWRE300250	300 x 250	323.8	304.7	273.0	254.5	203	9.5	9.3	13.60
BWRE350150	350 x 150	355.6	336.5	168.3	154.1	330	9.5	7.1	25.60
BWRE350200	350 x 200	355.6	336.5	219.1	202.7	330	9.5	8.2	21.80
BWRE350250	350 x 250	355.6	336.5	273.0	254.5	330	9.5	9.3	23.60
BWRE350300	350 x 300	355.6	336.5	323.8	304.7	330	9.5	9.5	25.40
BWRE400200	400 x 200	406.4	387.3	219.1	202.7	356	9.5	8.2	31.00
BWRE400250	400 x 250	406.4	387.3	273.0	254.5	356	9.5	9.3	27.80
BWRE400300	400 x 300	406.4	387.3	323.8	304.7	356	9.5	9.5	31.00
BWRE400350	400 x 350	406.4	387.3	355.6	336.5	356	9.5	9.5	31.00
BWRE450250	450 x 250	457.0	437.9	273.0	254.5	381	9.5	9.3	32.70
BWRE500300	500 x 300	508.0	488.9	323.8	304.7	508	9.5	9.5	34.00
BWRE500400	500 x 400	508.0	488.9	406.4	387.3	508	9.5	9.5	56.30
BWRE600400	600 x 400	610.0	590.9	406.4	387.3	508	9.5	9.5	68.40



# THE SMARTER CHOICE.

## METAL FITTINGS

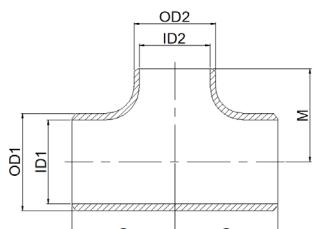
### BUTT WELD FITTINGS



**Equal Tee STD Weight ASTM A234 WPB ANSI B16.9**

Code	NB (mm)	OD	ID	C, M	T	Approx Weight
BWT015	15	21.3	15.8	25	2.8	0.08
BWT020	20	26.7	21.0	29	2.9	0.11
BWT025	25	33.4	26.6	38	3.4	0.24
BWT032	32	42.2	35.1	48	3.6	0.46
BWT040	40	48.3	40.9	57	3.7	0.71
BWT050	50	60.3	52.5	64	3.9	0.99
BWT065	65	73.0	62.7	76	5.2	1.90
BWT080	80	88.9	77.9	86	5.5	2.85
BWT090	90	101.6	90.1	95	5.7	3.83
BWT100	100	114.3	102.3	105	6.0	4.83
BWT125	125	141.3	128.2	124	6.6	8.00
BWT150	150	168.3	154.1	143	7.1	10.20
BWT200	200	219.1	202.7	178	8.2	22.90
BWT250	250	273.0	254.5	216	9.3	36.60
BWT300	300	323.8	304.7	254	9.5	58.40
BWT350	350	355.6	336.5	279	9.5	83.20
BWT400	400	406.4	387.3	305	9.5	96.30
BWT450	450	457.0	437.9	343	9.5	83.90
BWT500	500	508.0	488.9	381	9.5	139.00

**Reducing Tee STD Weight ASTM A234 WPB ANSI B16.9**



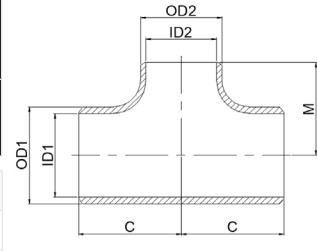
Code	NB (mm)	OD1	ID1	OD2	ID2	C	M	T1	T2	Approx Weight
BWTR020015	20 x 15	26.7	21.0	21.3	15.8	29	29	2.9	2.8	0.12
BWTR025015	25 x 15	33.4	26.6	21.3	15.8	38	38	3.4	2.8	0.22
BWTR025020	25 x 20	33.4	26.6	26.7	21.0	38	38	3.4	2.9	0.23
BWTR032015	32 x 15	42.2	35.1	21.3	15.8	48	48	3.6	2.8	0.37
BWTR032020	32 x 20	42.2	35.1	26.7	21.0	48	48	3.6	2.9	0.37
BWTR032025	32 x 25	42.2	35.1	33.4	26.6	48	48	3.6	3.4	0.39
BWTR040015	40 x 15	48.3	40.9	21.3	15.8	57	57	3.7	2.8	0.52
BWTR040020	40 x 20	48.3	40.9	26.7	21.0	57	57	3.7	2.9	0.52
BWTR040025	40 x 25	48.3	40.9	33.4	26.6	57	57	3.7	3.4	0.55
BWTR040032	40 x 32	48.3	40.9	42.2	35.1	57	57	3.7	3.6	0.68

# METAL FITTINGS

## BUTT WELD FITTINGS

**Reducing Tee STD Weight ASTM A234 WPB ANSI B16.9  
(continued)**

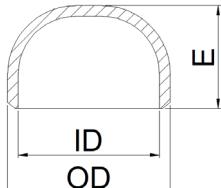
Code	NB (mm)	OD1	ID1	OD2	ID2	C	M	T1	T2	Approx Weight
BWTR050015	50 x 15	60.3	52.5	21.3	15.8	64	44	3.9	2.8	0.71
BWTR050020	50 x 20	60.3	52.5	26.7	21.0	64	44	3.9	2.9	0.73
BWTR050025	50 x 25	60.3	52.5	33.4	26.6	64	51	3.9	3.4	0.74
BWTR050032	50 x 32	60.3	52.5	42.2	35.1	64	57	3.9	3.6	0.89
BWTR050040	50 x 40	60.3	52.5	48.3	40.9	64	60	3.9	3.7	0.93
BWTR065025	65 x 25	73.0	62.7	33.4	26.6	76	57	5.2	3.4	1.48
BWTR065032	65 x 32	73.0	62.7	42.2	35.1	76	64	5.2	3.6	1.56
BWTR065040	65 x 40	73.0	62.7	48.3	40.9	76	67	5.2	3.7	1.47
BWTR065050	65 x 50	73.0	62.7	60.3	52.5	76	70	5.2	3.9	1.53
BWTR080025	80 x 25	88.9	77.9	33.4	26.6	86	70	5.5	3.4	2.00
BWTR080032	80 x 32	88.9	77.9	42.2	35.1	86	70	5.5	3.6	2.08
BWTR080040	80 x 40	88.9	77.9	48.3	40.9	86	73	5.5	3.7	2.08
BWTR080050	80 x 50	88.9	77.9	60.3	52.5	86	76	5.5	3.9	2.14
BWTR080065	80 x 65	88.9	77.9	73.0	62.7	86	83	5.5	5.2	2.27
BWTR100040	100 x 40	114.3	102.3	48.3	40.9	105	86	6.0	3.7	3.43
BWTR100050	100 x 50	114.3	102.3	60.3	52.5	105	89	6.0	3.9	3.55
BWTR100065	100 x 65	114.3	102.3	73.0	62.7	105	95	6.0	5.2	3.69
BWTR100080	100 x 80	114.3	102.3	88.9	77.9	105	98	6.0	5.5	3.82
BWTR125080	125 x 80	141.3	128.2	88.9	77.9	124	111	6.6	5.5	6.10
BWTR125100	125 x 100	141.3	128.2	114.3	102.3	124	117	6.6	6.0	6.18
BWTR150065	150 x 65	168.3	154.1	73.0	62.7	143	121	7.1	5.2	8.32
BWTR150080	150 x 80	168.3	154.1	88.9	77.9	143	124	7.1	5.5	8.52
BWTR150100	150 x 100	168.3	154.1	114.3	102.3	143	130	7.1	6.0	8.81
BWTR150125	150 x 125	168.3	154.1	141.3	128.2	143	137	7.1	6.6	9.08
BWTR200080	200 x 80	219.1	202.7	88.9	77.9	178	156	8.2	5.5	15.70
BWTR200100	200 x 100	219.1	202.7	114.3	102.3	178	156	8.2	6.0	18.00
BWTR200125	200 x 125	219.1	202.7	141.3	128.2	178	162	8.2	6.6	18.40
BWTR200150	200 x 150	219.1	202.7	168.3	154.1	178	168	8.2	7.1	18.80
BWTR250100	250 x 100	273.0	254.5	114.3	102.3	216	184	9.3	6.0	29.60
BWTR250125	250 x 125	273.0	254.5	141.3	128.2	216	191	9.3	6.6	30.10
BWTR250150	250 x 150	273.0	254.5	168.3	154.1	216	194	9.3	7.1	30.50
BWTR250200	250 x 200	273.0	254.5	219.1	202.7	216	203	9.3	8.2	32.40
BWTR300150	300 x 150	323.8	304.7	168.3	154.1	254	219	9.5	7.1	51.20
BWTR300200	300 x 200	323.8	304.7	219.1	202.7	254	229	9.5	8.2	53.10
BWTR300250	300 x 250	323.8	304.7	273.0	254.5	254	241	9.5	9.3	55.20



# THE SMARTER CHOICE.

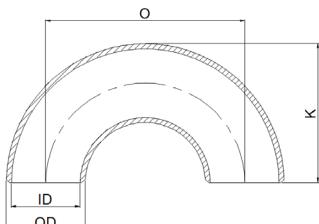
## METAL FITTINGS

### BUTT WELD FITTINGS



**Cap STD Weight ASTM A234 WPB ANSI B16.9**

Code	NB (mm)	OD	ID	E	T	Approx Weight
BWC020	20	26.7	21.0	25	2.9	0.05
BWC025	25	33.4	26.6	38	3.4	0.11
BWC032	32	42.2	35.1	38	3.6	0.14
BWC040	40	48.3	40.9	38	3.7	0.17
BWC050	50	60.3	52.5	44	3.9	0.23
BWC065	65	73.0	62.7	51	5.2	0.39
BWC080	80	88.9	77.9	64	5.5	0.66
BWC100	100	114.3	102.3	76	6.0	1.17
BWC125	125	141.3	128.2	89	6.6	1.91
BWC150	150	168.3	154.1	102	7.1	2.90
BWC200	200	219.1	202.7	127	8.2	5.19
BWC250	250	273.0	254.5	152	9.3	9.15
BWC300	300	323.8	304.7	178	9.5	13.30
BWC350	350	355.6	336.5	191	9.5	15.90
BWC400	400	406.4	387.3	203	9.5	20.00
BWC450	450	457.0	437.9	229	9.5	25.60
BWC500	500	508.0	488.9	254	9.5	31.90
BWC600	600	610.0	590.9	305	9.5	45.10



**Long Radius Elbow 180° STD Weight  
ASTM A234 WPB ANSI B16.9**

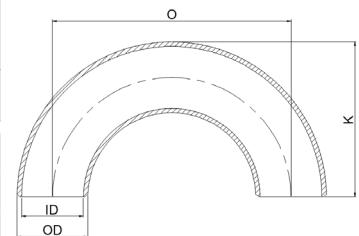
Code	NB (mm)	OD	ID	K	O	T	Approx Weight
BWE180020	20	26.7	21.0	51	76	2.9	0.22
BWE180025	25	33.4	26.6	56	76	3.4	0.32
BWE180032	32	42.2	35.1	70	95	3.6	0.46
BWE180040	40	48.3	40.9	83	114	3.7	0.73
BWE180050	50	60.3	52.5	106	152	3.9	1.14
BWE180065	65	73.0	62.7	132	190	5.2	2.50
BWE180080	80	88.9	77.9	159	229	5.5	3.64
BWE180100	100	114.3	102.3	210	305	6.0	8.18
BWE180125	125	141.3	128.2	381	262	6.6	13.18
BWE180150	150	168.3	154.1	457	313	7.1	21.82
BWE180200	200	219.1	202.7	610	414	8.2	44.99

# METAL FITTINGS

## BUTT WELD FITTINGS

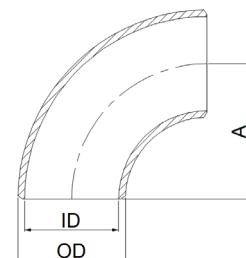
**Short Radius Elbow 180° STD Weight  
ASTM A234 WPB ANSI B16.9**

Code	NB (mm)	OD	ID	K	O	T	Approx Weight
BWES180025	25	33.4	26.6	41	51	3.4	0.20
BWES180032	32	42.2	35.1	52	64	3.6	0.34
BWES180040	40	48.3	40.9	62	76	3.7	0.48
BWES180050	50	60.3	52.5	81	102	3.9	0.87
BWES180065	65	73.0	62.7	100	127	5.2	1.72
BWES180080	80	88.9	77.9	121	152	5.5	2.70
BWES180100	100	114.3	102.3	159	203	6.0	5.12
BWES180150	150	168.3	154.1	237	305	7.1	13.50



**Long Radius Elbow 90° XS Weight  
ASTM A234 WPB ANSI B16.9**

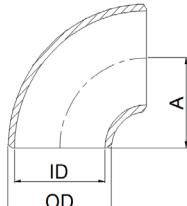
Code	NB (mm)	OD	ID	A	T	Approx Weight
BWEX90015	15	21.3	13.8	38	3.7	0.10
BWEX90020	20	26.7	18.9	38	3.9	0.10
BWEX90025	25	33.4	24.3	38	4.6	0.19
BWEX90032	32	42.2	32.5	48	4.9	0.33
BWEX90040	40	48.3	38.1	57	5.1	0.49
BWEX90050	50	60.3	49.2	76	5.5	0.89
BWEX90065	65	73.0	59.0	95	7	1.70
BWEX90080	80	88.9	73.7	114	7.6	2.74
BWEX90100	100	114.3	97.2	152	8.6	5.34
BWEX90125	125	141.3	122.2	190	9.5	9.25
BWEX90150	150	168.3	146.4	229	11	15.30
BWEX90200	200	219.1	193.7	305	12.7	30.90
BWEX90250	250	273.0	247.6	381	12.7	48.80
BWEX90300	300	323.8	298.4	457	12.7	69.90



# THE SMARTER CHOICE.

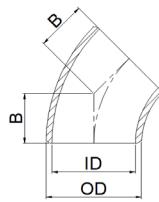
## METAL FITTINGS

### BUTT WELD FITTINGS



**Short Radius Elbow 90° XS Weight  
ASTM A234 WPB ANSI B16.9**

Code	NB (mm)	OD	ID	A	T	Approx Weight
BWES90X032	32	42.2	32.5	32	4.9	0.22
BWES90X040	40	48.3	38.1	38	5.1	0.32
BWES90X050	50	60.3	49.2	51	5.5	0.60
BWES90X065	65	73.0	59.0	64	7.0	1.14
BWES90X080	80	88.9	73.7	76	7.6	1.83
BWES90X100	100	114.3	97.2	102	8.6	3.56
BWES90X150	150	168.3	146.4	152	11	10.20
BWES90X200	200	219.1	193.7	203	12.7	20.60



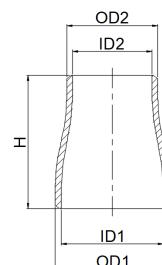
**Long Radius Elbow 45° XS Weight  
ASTM A234 WPB ANSI B16.9**

Code	NB (mm)	OD	ID	B	T	Approx Weight
BWEX45015	15	21.3	13.8	16	3.7	0.05
BWEX45020	20	26.7	18.9	19	3.9	0.05
BWEX45025	25	33.4	24.3	22	4.6	0.10
BWEX45032	32	42.2	32.5	25	4.9	0.17
BWEX45040	40	48.3	38.1	29	5.1	0.24
BWEX45050	50	60.3	49.2	35	5.5	0.45
BWEX45065	65	73.0	59.0	44	7.0	0.85
BWEX45080	80	88.9	73.7	51	7.6	1.37
BWEX45100	100	114.3	97.2	64	8.6	2.67
BWEX45150	150	168.3	146.4	95	11	7.65
BWEX45200	200	219.1	193.7	127	12.7	15.40

# METAL FITTINGS

## BUTT WELD FITTINGS

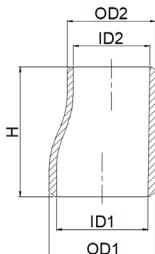
Concentric Reducer XS Weight ASTM A234 WPB ANSI B16.9									
Code	NB (mm)	OD1	ID1	OD2	ID2	H	T1	T2	Approx Weight
BWRCX020015	20 x 15	26.7	18.9	21.3	13.8	38	3.9	3.7	0.07
BWRCX025015	25 x 15	33.4	24.3	21.3	13.8	51	4.6	3.7	0.13
BWRCX025020	25 x 20	33.4	24.3	26.7	18.9	51	4.6	3.9	0.15
BWRCX032015	32 x 15	42.2	32.5	21.3	13.8	51	4.9	3.7	0.17
BWRCX032020	32 x 20	42.2	32.5	26.7	18.9	51	4.9	3.9	0.19
BWRCX032025	32 x 25	42.2	32.5	33.4	24.3	51	4.9	4.6	0.23
BWRCX040015	40 x 15	48.3	38.1	21.3	13.8	64	5.4	3.7	0.25
BWRCX040020	40 x 20	48.3	38.1	26.7	18.9	64	5.4	3.9	0.27
BWRCX040025	40 x 25	48.3	38.1	33.4	24.3	64	5.4	4.6	0.29
BWRCX040032	40 x 32	48.3	38.1	42.2	32.5	64	5.4	4.9	0.32
BWRCX050025	50 x 25	60.3	49.2	33.4	24.3	76	5.5	4.6	0.43
BWRCX050032	50 x 32	60.3	49.2	42.2	32.5	76	5.5	4.9	0.54
BWRCX050040	50 x 40	60.3	49.2	48.3	38.1	76	5.5	5.4	0.51
BWRCX065025	65 x 25	73.0	59.0	33.4	24.3	89	7.0	4.6	0.73
BWRCX065050	65 x 50	73.0	59.0	60.3	49.2	89	7.0	5.5	0.92
BWRCX080040	80 x 40	88.9	73.7	48.3	38.1	89	7.6	5.4	1.04
BWRCX080050	80 x 50	88.9	73.7	60.3	49.2	89	7.6	5.5	1.13
BWRCX080065	80 x 65	88.9	73.7	73.0	59.0	89	7.6	7.0	1.23
BWRCX100050	100 x 50	114.3	97.2	60.3	49.2	102	8.6	5.5	1.75
BWRCX100065	100 x 65	114.3	97.2	73.0	59.0	102	8.6	7.0	1.86
BWRCX100080	100 x 80	114.3	97.2	88.9	73.7	102	8.6	7.6	2.02
BWRCX125100	125 x 100	141.3	122.2	114.3	97.2	127	9.5	8.6	3.54
BWRCX150050	150 x 50	168.3	146.4	60.3	49.2	140	11.0	5.5	4.38
BWRCX150080	150 x 80	168.3	146.4	88.9	73.7	140	11.0	7.6	4.56
BWRCX150100	150 x 100	168.3	146.4	114.3	97.2	140	11.0	8.6	5.03
BWRCX150125	150 x 125	168.3	146.4	141.3	122.2	140	11.0	9.5	5.38
BWRCX200100	200 x 100	219.1	193.7	114.3	97.2	152	12.7	8.6	7.77
BWRCX200150	200 x 150	219.1	193.7	168.3	146.4	152	12.7	11.0	8.76
BWRCX250200	250 x 200	273.0	247.6	219.1	193.7	178	12.7	12.7	12.90



**THE SMARTER CHOICE.**

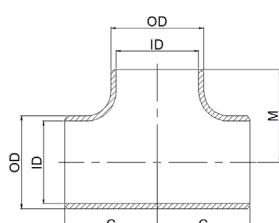
## METAL FITTINGS

### BUTT WELD FITTINGS



**Eccentric Reducer XS Weight ASTM A234 WPB ANSI B16.9**

Code	NB (mm)	OD1	ID1	OD2	ID2	H	T1	T2	Approx Weight
BWREX020015	20 x 15	26.7	18.9	21.3	13.8	38	3.9	3.7	0.07
BWREX025015	25 x 15	33.4	24.3	21.3	13.8	51	4.6	3.7	0.14
BWREX025020	25 x 20	33.4	24.3	26.7	18.9	51	4.6	3.9	0.14
BWREX040025	40 x 25	48.3	38.1	33.4	24.3	64	5.4	4.6	0.29
BWREX050020	50 x 20	60.3	49.2	26.7	18.9	76	5.5	3.9	0.40
BWREX050025	50 x 25	60.3	49.2	33.4	24.3	76	5.5	4.6	0.44
BWREX050040	50 x 40	60.3	49.2	48.3	38.1	76	5.5	5.4	0.51
BWREX065050	65 x 50	73.0	59.0	60.3	49.2	89	7.0	5.5	0.95
BWREX080040	80 x 40	88.9	73.7	48.3	38.1	89	7.6	5.4	1.04
BWREX080050	80 x 50	88.9	73.7	60.3	49.2	89	7.6	5.5	1.13
BWREX080065	80 x 65	88.9	73.7	73.0	59.0	89	7.6	7.0	1.25
BWREX100050	100 x 50	114.3	97.2	60.3	49.2	102	8.6	5.5	1.75
BWREX100065	100 x 65	114.3	97.2	73.0	59.0	102	8.6	7.0	1.90
BWREX100080	100 x 80	114.3	97.2	88.9	73.7	102	8.6	7.6	2.13
BWREX150080	150 x 80	168.3	146.4	88.9	73.7	140	11.0	7.6	4.60
BWREX150100	150 x 100	168.3	146.4	114.3	97.2	140	11.0	8.6	4.96
BWREX200150	200 x 150	219.1	193.7	168.3	146.4	152	12.7	11.0	8.75



**Equal Tee XS Weight ASTM A234 WPB ANSI B16.9**

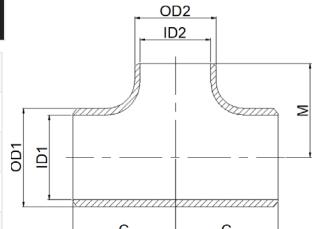
Code	NB (mm)	OD	ID	C, M	T	Approx Weight
BWTX015	15	21.3	13.8	25	3.7	0.11
BWTX020	20	26.7	18.9	29	3.9	0.16
BWTX025	25	33.4	24.3	38	4.6	0.32
BWTX032	32	42.2	32.5	48	4.9	0.56
BWTX040	40	48.3	38.1	57	5.1	0.81
BWTX050	50	60.3	49.2	64	5.5	1.20
BWTX065	65	73.0	59.0	76	7.0	2.28
BWTX080	80	88.9	73.7	86	7.6	3.25
BWTX100	100	114.3	97.2	105	8.6	5.77
BWTX150	150	168.3	146.4	143	11.0	14.50
BWTX200	200	219.1	193.7	178	12.7	27.10
BWTX250	250	273.0	247.6	216	12.7	41.70
BWTX300	300	323.8	298.4	254	12.7	114.95

# METAL FITTINGS

## BUTT WELD FITTINGS

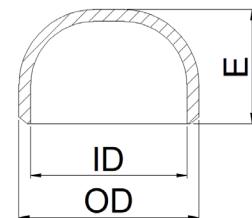
**Reducing Tee XS Weight ASTM A234 WPB ANSI B16.9**

Code	NB (mm)	OD1	OD2	ID1	ID2	C	M	T1	T2	Approx Weight
BWTRX020015	20 x 15	26.7	18.9	21.3	13.8	29	29	3.9	3.7	0.15
BWTRX025015	25 x 15	33.4	24.3	21.3	13.8	38	38	4.6	3.7	0.28
BWTRX040020	40 x 20	48.3	38.1	26.7	18.9	57	57	5.1	3.9	0.69
BWTRX040025	40 x 25	48.3	38.1	33.4	24.3	57	57	5.1	4.6	0.73
BWTRX050025	50 x 25	60.3	49.2	33.4	24.3	64	51	5.5	4.6	1.01
BWTRX050040	50 x 40	60.3	49.2	48.3	38.1	64	60	5.5	5.1	1.11
BWTRX080025	80 x 25	88.9	73.7	33.4	24.3	86	70	7.6	4.6	2.65
BWTRX080050	80 x 50	88.9	73.7	60.3	49.2	86	76	7.6	5.5	2.85
BWTRX100050	100 x 50	114.3	97.2	60.3	49.2	105	89	8.6	5.5	4.93
BWTRX100080	100 x 80	114.3	97.2	88.9	73.7	105	98	8.6	7.6	5.33
BWTRX150080	150 x 80	168.3	146.4	88.9	73.7	143	124	11.0	7.6	12.8



**Cap XS Weight ASTM A234 WPB ANSI B16.9**

Code	NB (mm)	OD	ID	E	T	Approx Weight
BWCX015	15	21.3	13.8	25	3.7	0.05
BWCX025	25	33.4	24.3	38	4.6	0.15
BWCX040	40	48.3	38.1	38	5.1	0.24
BWCX050	50	60.3	49.2	44	5.5	0.33
BWCX065	65	73.0	59.0	51	7.0	0.53
BWCX080	80	88.9	73.7	64	7.6	0.92
BWCX100	100	114.3	122.2	76	8.6	1.67
BWCX125	125	141.3	122.2	89	9.5	2.78
BWCX150	150	168.3	146.4	102	11.0	4.47
BWCX200	200	219.1	193.7	127	12.7	8.05
BWCX250	250	273.0	247.6	152	12.7	12.50



## METAL FITTINGS

### STEEL FITTINGS

#### STEEL UNIONS

Black steel Unions are used in a wide range of make-and-break joints such as : Filters, valves, hoses, machinery etc.; general piping installations requiring periodic disconnections; high or low pressure assemblies in air, oil, gas and water. Available in Steel-Steel, Steel-Bronze and Bronze-Bronze seats in Female-Female and Male-Female types.

#### SEATINGS

Ball to Cone Seating in the following combinations:

#### Steel-Steel

This is a general purpose combination recommended where vibration is present. The seats are Integral and therefore are the most economically priced. This union will suit almost any application. Zinc coating improves the efficiency of the joints to a marked degree where corrosion is present.

#### Steel-Bronze

A good seat combination where corrosion due to the material used in the line or where condensation is present and when periodic disconnection is required. Zinc coating improves the efficiency of the joint.

#### Bronze-Bronze

Should corrosion – due to material in the pipe line or condensation be a major factor, and where consistent disconnection is required, this seat combination is advised. Ideally suited to steam lines. Zinc coating improves the corrosion resistance of the seat area.

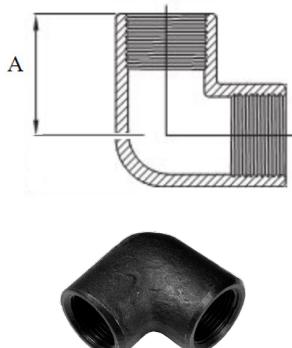
#### THREADING

Taper threads only. External (R) and internal (RC) series to AS 1722 Part 1.

#### SPECIFICATIONS

Asmuss Steel Fittings are pressure tested by application of internal pressure, under which they are required to withstand, without signs of leakage, failure or plastic deformation the following tests:

- All sizes of unions up to 50NB individually tested to 2000 p.s.i. and sample tested to 3000 p.s.i.
- All sizes of unions over 50NB individually tested to 1500 p.s.i.
- All sizes of ordinary sockets samples tested to 750 p.s.i.
- All sizes of other fittings sample tested to 750 p.s.i.



**Black & Galvanised Mild Steel Female-Female  
Elbow 90°**

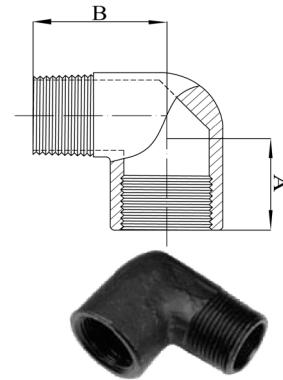
Code Black	Code Galvanised	NB (mm)	A	Approx Weight
WBE006		6	16	0.09
WBE008		8	22	0.07
WBE010		10	24	0.09
WBE015	WGE015	15	32	0.17
WBE020	WGE020	20	35	0.26
WBE025	WGE025	25	43	0.42
WBE032	WGE032	32	51	0.64
WBE040	WGE040	40	52	0.76
WBE050	WGE050	50	64	1.22
WBE065		65	76	2.00
WBE080		80	89	2.71
WBE100		100		5.77

# METAL FITTINGS

## STEEL FITTINGS

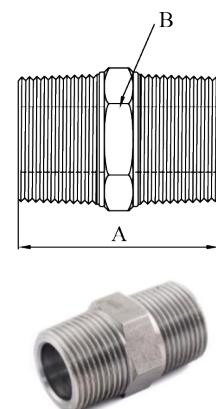
### Black & Galvanised Mild Steel Male-Female Elbow 90°

Code Black	Code Galvanised	NB (mm)	A	B	Approx Weight
WBEMF008		8	19	27	0.04
WBEMF010		10	21	29	0.07
WBEMF015	WGEMF015	15	25	35	0.13
WBEMF020	WGEMF020	20	30	40	0.19
WBEMF025	WGEMF025	25	37	46	0.34
WBEMF032	WGEMF032	32	43	54	0.62
WBEMF040	WGEMF040	40	49	57	0.73
WBEMF050	WGEMF050	50	59	70	1.25



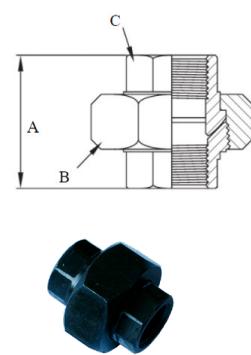
### Black & Galvanised Mild Hexagon Steel Nipple

Code Black	Code Galvanised	NB (mm)	A	B	Approx Weight
WBN006		6	25	11	0.01
WBN008		8	31	16	0.03
WBN010		10	33	19	0.04
WBN015	WGN015	15	43	22	0.07
WBN020	WGN020	20	48	27	0.10
WBN025	WGN025	25	52	35	0.17
WBN032	WGN040	32	59	47	0.31
WBN040	WGN050	40	61	52	0.41
WBN050		50	68	61	0.61
WBN065		65	80	79	1.16
WBN080		80	89	92	0.14
WBN100		100	102	117	3.91



### Black Mild Steel Female-Female Union

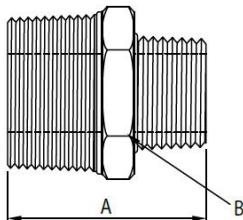
Code Steel-Steel	Code Bronze-Steel	Code Bronze-Bronze	NB (mm)	A	B	C	Approx Weight
	WBUB008		8	42	35	21	0.15
WBUS010	WBUB010		10	42	35	21	0.18
WBUS015	WBUB015	WBUBB015	15	46	42	26	0.28
WBUS020	WBUB020	WBUBB020	20	54	52	34	0.44
WBUS025	WBUB025	WBUBB025	25	61	61	40	0.62
WBUS032	WBUB032	WBUBB032	32	71	76	50	0.95
WBUS040	WBUB040	WBUBB040	40	82	83	56	1.26
WBUS050	WBUB050	WBUBB050	50	88	101	70	1.80



# THE SMARTER CHOICE.

## METAL FITTINGS

### STEEL FITTINGS

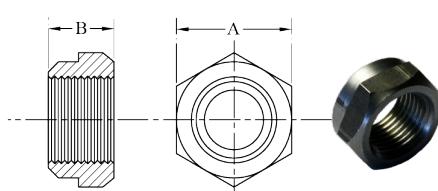


#### Black & Galvanised Mild Steel Reducing Nipple

Code Black	Code Galvanised	NB (mm)	A	B	Approx Weight
WBNR008006		8 x 6	30	16	0.02
WBNR010006		10 x 6	31	19	0.03
WBNR010008		10 x 8	34	19	0.03
WBNR015006		15 x 6	40	22	0.06
WBNR015008		15 x 8	40	22	0.06
WBNR015010		15 x 10	40	22	0.06
WBNR020008		20 x 8	42	27	0.08
WBNR020010		20 x 10	42	27	0.09
WBNR020015	WGNR020015	20 x 15	47	27	0.10
WBNR025015	WGNR025015	25 x 15	50	35	0.16
WBNR025020		25 x 20	50	35	0.16
WBNR032015		32 x 15	55	47	0.31
WBNR032020		32 x 20	55	47	0.29
WBNR032025		32 x 25	57	47	0.30
WBNR040020		40 x 20	57	52	0.39
WBNR040025		40 x 25	59	52	0.37
WBNR040032		40 x 32	63	52	0.39
WBNR050025		50 x 25	62	61	0.64
WBNR050032		50 x 32	66	61	0.53
WBNR050040		50 x 40	66	61	0.57

#### Black Mild Steel Hexagon Cap

Code	NB (mm)	A	B	Approx Weight
WSBPH/015	15	28.6	16	0.04

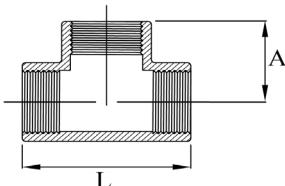


# METAL FITTINGS

## STEEL FITTINGS

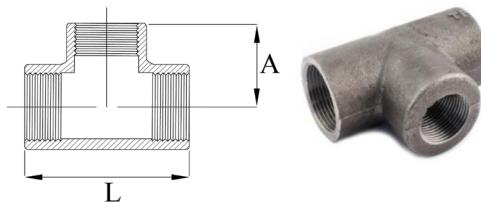
### Black & Galvanised Mild Steel Equal Tee

Code Black	Code Galvanised	NB (mm)	A	L	Approx Weight
WBT006		6	16	32	0.14
WBT008		8	22	44	0.09
WBT010		10	24	48	0.10
WBT015	WGT015	15	32	64	0.20
WBT020	WGT020	20	35	70	0.23
WBT025	WGT025	25	43	86	0.46
WBT032	WGT032	32	51	102	0.71
WBT040	WGT040	40	52	104	0.87
WBT050	WGT050	50	64	128	1.45
WBT065		65	76	152	2.31
WBT080		80	89	178	3.25
WBT100		100	112	233	7.50



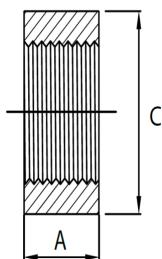
### Black Mild Steel Reducing Tee

Code	NB (mm)	A	L	Approx Weight
WBTR020015	20 x 15	35	70	0.30
WBTR032020	32 x 20	51	102	0.60
WBTR040025	40 x 25	52	104	1.00
WBTR050015	50 x 15	64	108	1.55
WBTR050025	50 x 25	64	108	1.45



### Black Mild Steel Half Socket

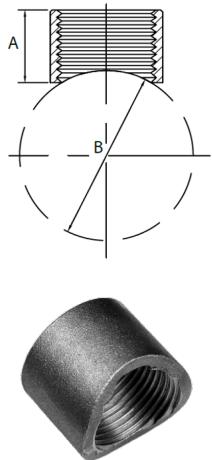
Code	NB (mm)	A	C	Approx Weight
WBSH010	10	12	22	0.02
WBSH015	15	16	27	0.04
WBSH020	20	19	32.5	0.05
WBSH025	25	21	39.5	0.08
WBSH032	32	25	49	0.12
WBSH040	40	25	56	0.16
WBSH050	50	28	68	0.24
WBSH065	65	30	84	0.36



**THE SMARTER CHOICE.**

## METAL FITTINGS

### STEEL FITTINGS



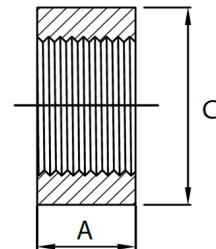
Black Mild Steel Profile Socket				
Code	NB (mm)	A	B	Approx Weight
WBSP025032	25 x 32	33.5	42.4	0.10
WBSP025040	25 x 40	32.5	48.3	0.10
WBSP025050	25 x 50	31.2	60.3	0.10
WBSP025065	25 x 65	30.3	76.0	0.10
WBSP025080	25 x 80	29.8	88.9	0.10
WBSP025100	25 x 100	29.2	114.0	0.10
WBSP025150	25 x 150	28.5	165.1	0.10
WBSP032040	32 x 40	37.0	48.3	0.14
WBSP032050	32 x 50	34.2	60.3	0.14
WBSP032065	32 x 65	32.5	76.0	0.14
WBSP032080	32 x 80	31.6	88.9	0.14
WBSP032100	32 x 100	30.6	114.0	0.14
WBSP032150	32 x 150	30.5	165.1	0.14
WBSP040050	40 x 50	37.6	60.3	0.19
WBSP040065	40 x 65	34.9	76.0	0.19
WBSP040080	40 x 80	33.7	88.9	0.19
WBSP040100	40 x 100	32.2	114.0	0.19
WBSP040150	40 x 150	30.7	165.1	0.19
WBSP050050	50 x 50	48.1	60.3	0.23
WBSP050065	50 x 65	41.1	76.0	0.23
WBSP050080	50 x 80	38.6	88.9	0.23
WBSP050100	50 x 100	36.0	114.0	0.23
WBSP050150	50 x 150	33.5	165.1	0.23
WBSP050100	50 X 80	38.6	88.9	0.23
WBSP050100	50 X 100	36	114	0.23
WBSP050150	50 X 150	33.5	165.1	0.23

# METAL FITTINGS

## STEEL FITTINGS

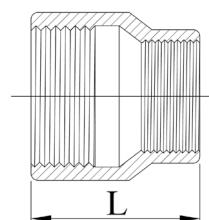
### Black & Galvanised Mild Steel Socket

Code Black	Code Galvanised	NB (mm)	A	C	Approx Weight
WBSF006	WGSF006	6	19	15	0.02
WBSF008	WGSF008	8	19	18.5	0.03
WBSF010	WGSF010	10	28	22	0.04
WBSF015	WGSF015	15	37	27	0.08
WBSF020	WGSF020	20	39	32.5	0.10
WBSF025	WGSF025	25	46	39.5	0.16
WBSF032	WGSF032	32	51	49	0.25
WBSF040	WGSF040	40	51	56	0.32
WBSF050	WGSF050	50	60	68	0.47
WBSF065	WGSF065	65	69	84	0.71
WBSF080	WGSF080	80	75	98	1.02
WBSF100	WGSF100	100	87	124	2.10
WBSF125	WGSF125	125	96	151	2.50
WBSF150	WGSF150	150	96	177	2.84



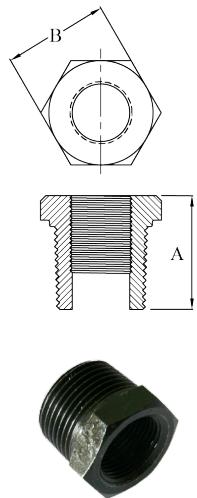
### Black Mild Steel Reducing Socket

Code	NB (mm)	L	Approx Weight
WBSR010008	10 x 8	29	0.04
WBSR015008	15 x 8	49	0.08
WBSR015010	15 x 10	38	0.08
WBSR020010	20 x 10	43	0.13
WBSR020015	20 x 15	41	0.11
WBSR025015	25 x 15	51	0.20
WBSR025020	25 x 20	49	0.19
WBSR032015	32 x 15	59	0.30
WBSR032020	32 x 20	57	0.29
WBSR032025	32 x 25	56	0.27
WBSR040015	40 x 15	65	0.42
WBSR040020	40 x 20	64	0.45
WBSR040025	40 x 25	62	0.45
WBSR040032	40 x 32	60	0.44
WBSR050015	50 x 15	70	0.49
WBSR050020	50 x 20	68	0.50
WBSR050025	50 x 25	67	0.56
WBSR050032	50 x 32	65	0.54
WBSR050040	50 x 40	64	0.55



## METAL FITTINGS

### STEEL FITTINGS



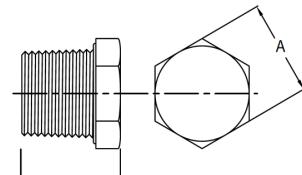
Black & Galvanised Mild Steel Bush					
Code Black	Code Galvanised	NB (mm)	A	B	Approx Weight
WBB008006		8 x 6	12.5	14	0.01
WBB010006		10 x 6	12.5	17	0.02
WBB010008		10 x 8	12.5	17	0.02
WBB015006		15 x 6	17.5	22	0.04
WBB015008		15 x 8	17.5	22	0.05
WBB015010		15 x 10	17.5	22	0.03
WBB020006		20 x 6	19	27	0.08
WBB020008		20 x 8	19	27	0.08
WBB020010		20 x 10	19	27	0.70
WBB020015	WGB020015	20 x 15	19	27	0.05
WBB025008		25 x 8	21	36	0.14
WBB025010		25 x 10	21	36	0.14
WBB025015	WGB025015	25 x 15	21	36	0.13
WBB025020	WGB025020	25 x 20	21	36	0.10
WBB032015		32 x 15	24	46	0.27
WBB032020	WGB032020	32 x 20	24	46	0.24
WBB032025	WGB032025	32 x 25	24	46	0.19
WBB040015	WGB040015	40 x 15	24	50	0.32
WBB040020	WGB040020	40 x 20	24	50	0.31
WBB040025	WGB040025	40 x 25	24	50	0.26
WBB040032		40 x 32	24	50	0.27
WBB050015		50 x 15	27	65	0.59
WBB050020	WGB050020	50 x 20	27	65	0.56
WBB050025		50 x 25	27	65	0.53
WBB050032	WGB050032	50 x 32	27	65	0.46
WBB050040	WGB050040	50 x 40	27	65	0.40
WBB065040		65 x 40	32	78	0.93
WBB065050		65 x 50	32	78	0.68
WBB080050		80 x 50	35	90	1.40
WBB080065		80 x 65	35	90	0.86

# METAL FITTINGS

## STEEL FITTINGS

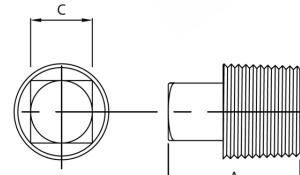
### Black Mild Steel Hexagon Head Plug

Code	NB (mm)	A	B	Approx Weight
WBPH006	6	12	9.5	0.01
WBPH008	8	14	12.5	0.02
WBPH010	10	17	12.5	0.03
WBPH015	15	22	17.5	0.05
WBPH020	20	27	19	0.08
WBPH025	25	36	21	0.12
WBPH032	32	46	24	0.23
WBPH040	40	50	24	0.33
WBPH050	50	65	27	0.60
WBPH080	80	90	35	1.42
WBPH100	100	115	40	2.44



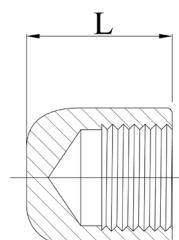
### Black Mild Steel Square Head Plug

Code Black	Code Galvanised	NB (mm)	A	C	Approx Weight
WBPS006		6	12.5	6	0.01
WBPS008		8	15.7	6	0.02
WBPS010		10	20.1	10	0.03
WBPS015	WGP015	15	23.2	10	0.05
WBPS020	WGP020	20	26.5	12	0.08
WBPS025	WGP025	25	28.8	12	0.12
WBPS032	WGP032	32	35.1	16	0.23
WBPS040	WGP040	40	35.1	16	0.33
WBPS050	WGP050	50	42.4	19	0.60
WBPS065		65	45.7	19	1.02
WBPS080		80	51.8	22	1.42



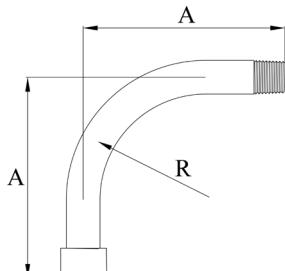
### Black & Galvanised Mild Steel Cap

Code Black	Code Galvanised	NB (mm)	L	Approx Weight
WBC015		15	37	0.10
WBC020	WGC020	20	38	0.15
WBC025	WGC025	25	44	0.26
WBC032		32	51	0.40
WBC040		40	54	0.60
WBC050		50	60	0.95

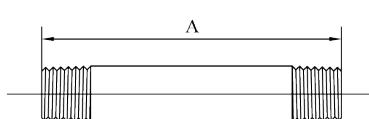


## METAL FITTINGS

### STEEL FITTINGS



Black & Galvanised Mild Steel Male-Female Bend 90°					
Code Black	Code Galvanised	NB (mm)	L	R	Approx Weight
WBLB006	WGLB006	6	51	32	0.04
WBLB008	WGLB008	8	64	41	0.08
WBLB010	WGLB010	10	73	48	0.12
WBLB015	WGLB015	15	86	50	0.19
WBLB020	WGLB020	20	102	60	0.30
WBLB025	WGLB025	25	121	70	0.58
WBLB032	WGLB032	32	146	89	0.88
WBLB040	WGLB040	40	165	105	1.16
WBLB050	WGLB050	50	203	127	1.91
WBLB065	WGLB065	65	248	180	3.28
WBLB080	WGLB080	80	292	205	5.24
WBLB100	WGLB100	100	431	297	10.30
WBLB150		150	622	437	22.00



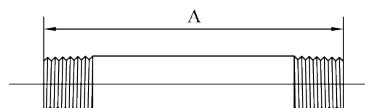
Black & Galvanised Mild Steel Barrel Nipple				
Code Black	Code Galvanised	NB (mm)	A	Approx Weight
	WGBN00630	6	30	0.01
WBBN00640	WGBN00640	6	40	0.01
	WGBN00650	6	50	0.02
WBBN00660	WGBN00660	6	60	0.02
WBBN00670	WGBN00670	6	70	0.03
WBBN00680	WGBN00680	6	80	0.03
WBBN00690	WGBN00690	6	90	0.03
	WGBN00825	8	25	0.01
WBBN00830	WGBN00830	8	30	0.01
WBBN00840	WGBN00840	8	40	0.02
WBBN00850	WGBN00850	8	50	0.03
WBBN00860	WGBN00860	8	60	0.03
WBBN00870	WGBN00870	8	70	0.04
WBBN00880	WGBN00880	8	80	0.05
WBBN00890	WGBN00890	8	90	0.05
WBBN01025		10	25	0.02
WBBN01030	WGBN01030	10	30	0.02
WBBN01040	WGBN01040	10	40	0.03
WBBN01050	WGBN01050	10	50	0.04

# METAL FITTINGS

## STEEL FITTINGS

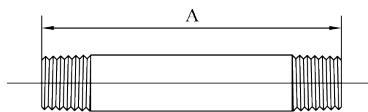
**Black & Galvanised Mild Steel Barrel Nipple  
(continued)**

Code Black	Code Galvanised	NB (mm)	A	Approx Weight
WBBN01060	WGBN01060	10	60	0.04
WBBN01070	WGBN01070	10	70	0.05
WBBN01080	WGBN01080	10	80	0.06
WBBN01090	WGBN01090	10	90	0.07
WBBN01540		15	40	0.04
WBBN01550	WGBN01550	15	50	0.05
WBBN01560	WGBN01560	15	60	0.06
WBBN01570	WGBN01570	15	70	0.07
WBBN01580	WGBN01580	15	80	0.09
WBBN01590	WGBN01590	15	90	0.10
WBBN02040		20	40	0.05
WBBN02050	WGBN02050	20	50	0.06
WBBN02060	WGBN02060	20	60	0.08
WBBN02070	WGBN02070	20	70	0.10
WBBN02080	WGBN02080	20	80	0.11
WBBN02090	WGBN02090	20	90	0.13
WBBN02550	WGBN02550	25	50	0.10
WBBN02560	WGBN02560	25	60	0.12
WBBN02570	WGBN02570	25	70	0.15
WBBN02580	WGBN02580	25	80	0.17
WBBN02590	WGBN02590	25	90	0.20
WBBN03250		32	50	0.15
WBBN03260	WGBN03260	32	60	0.15
WBBN03270	WGBN03270	32	70	0.18
WBBN03280	WGBN03280	32	80	0.21
WBBN03290	WGBN03290	32	90	0.24
WBBN04050		40	50	0.13
WBBN04060	WGBN04060	40	60	0.17
WBBN04070	WGBN04070	40	70	0.20
WBBN04080	WGBN04080	40	80	0.28
WBBN04090	WGBN04090	40	90	0.28
WBBN05060	WGBN05060	50	60	0.22
WBBN05070	WGBN05070	50	70	0.28
WBBN05080	WGBN05080	50	80	0.33
WBBN05090	WGBN05090	50	90	0.38
	WGBN06570	65	70	0.32



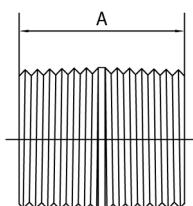
## METAL FITTINGS

### STEEL FITTINGS



#### Black & Galvanised Mild Steel Barrel Nipple (continued)

Code Black	Code Galvanised	NB (mm)	A	Approx Weight
WBBN06580	WGBN06580	65	80	0.39
WBBN06590	WGBN06590	65	90	0.45
WBBN08050		80	50	0.24
WBBN08060		80	60	0.32
WBBN08070		80	70	0.72
WBBN08080	WGBN08080	80	80	0.49
WBBN08090	WGBN08090	80	90	0.58
WBBN10075		100	75	0.92
WBBN10080	WGBN10080	100	80	0.98
WBBN10090	WGBN10090	100	90	0.80



#### Black Mild Steel Close Nipple

Code Black	Code Galvanised	NB (mm)	A	Approx Weight
	WGBN006CT	6	23	0.01
WBBN008CT	WGBN008CT	8	27	0.01
WBBN010CT		10	28	0.02
WBBN015CT	WGBN015CT	15	37	0.03
WBBN020CT	WGBN020CT	20	40	0.04
WBBN025CT	WGBN025CT	25	46	0.08
WBBN032CT	WGBN032CT	32	51	0.11
WBBN040CT	WGBN040CT	40	51	0.13
WBBN050CT	WGBN050CT	50	60	0.22
WBBN065CT	WGBN065CT	65	69	0.30
WBBN080CT	WGBN080CT	80	75	0.42
WBBN100CT	WGBN100CT	100	75	0.73

# METAL FITTINGS

## STEEL FITTINGS

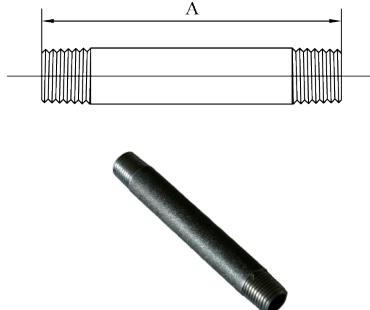
Black & Galvanised Mild Steel Barrel Piece				
Code Black	Code Galvanised	Metric Size	A	Approx Weight
	WGBP006100	6	100	0.04
WBBP006130		6	130	0.05
WBBP006150	WGBP006150	6	150	0.05
WBBP008100	WGBP008100	8	100	0.06
	WGBP008120	8	120	0.07
WBBP008130	WGBP008130	8	130	0.08
WBBP008150	WGBP008150	8	150	0.09
WBBP010100	WGBP010100	10	100	0.08
	WGBP010120	10	120	0.09
WBBP010130	WGBP010130	10	130	0.10
WBBP010150	WGBP010150	10	150	0.12
	WGBP010200	10	200	0.16
	WGBP010250	10	250	0.20
	WGBP010300	10	300	0.25
WBBP015100	WGBP015100	15	100	0.11
WBBP015110	WGBP015110	15	110	0.12
WBBP015120	WGBP015120	15	120	0.13
WBBP015130	WGBP015130	15	130	0.15
WBBP015140		15	140	0.16
WBBP015150	WGBP015150	15	150	0.17
WBBP015200	WGBP015200	15	200	0.23
WBBP015250	WGBP015250	15	250	0.29
WBBP015300	WGBP015300	15	300	0.35
WBBP015400	WGBP015400	15	400	0.48
WBBP015450	WGBP015450	15	450	0.54
WBBP015500	WGBP015500	15	500	0.60
WBBP015600	WGBP015600	15	600	0.72
	WGBP015900	15	900	1.09
WBBP020100	WGBP020100	20	100	0.14
WBBP020110		20	110	0.16
WBBP020120		20	120	0.17
WBBP020130	WGBP020130	20	130	0.19
WBBP020140		20	140	0.21
WBBP020150	WGBP020150	20	150	0.22
WBBP020200	WGBP020200	20	200	0.30
WBBP020250	WGBP020250	20	250	0.38
WBBP020300	WGBP020300	20	300	0.46



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## METAL FITTINGS

### STEEL FITTINGS



**Black & Galvanised Mild Steel Barrel Piece (continued)**

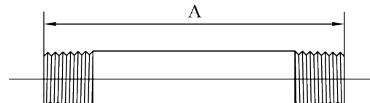
Code Black	Code Galvanised	Metric Size	A	Approx Weight
WBBP020400	WGBP020400	20	400	0.62
WBBP020450	WGBP020450	20	450	0.70
WBBP020500	WGBP020500	20	500	0.78
WBBP020600	WGBP020600	20	600	0.93
	WGBP020900	20	900	1.41
WBBP025100	WGBP025100	25	100	0.22
WBBP025110	WGBP025110	25	110	0.24
WBBP025120	WGBP025120	25	120	0.27
WBBP025130	WGBP025130	25	130	0.29
WBBP025140		25	140	0.32
WBBP025150	WGBP025150	25	150	0.34
WBBP025200	WGBP025200	25	200	0.46
WBBP025250	WGBP025250	25	250	0.59
WBBP025300	WGBP025300	25	300	0.71
WBBP025400	WGBP025400	25	400	0.95
WBBP025450	WGBP025450	25	450	1.07
WBBP025500	WGBP025500	25	500	1.20
WBBP025600	WGBP025600	25	600	1.44
	WGBP025800	25	800	1.93
	WGBP0251000	25	1000	2.50
WBBP032100	WGBP032100	32	100	0.27
WBBP032120	WGBP032120	32	120	0.34
WBBP032130	WGBP032130	32	130	0.37
WBBP032150	WGBP032150	32	150	0.43
WBBP032200	WGBP032200	32	200	0.59
WBBP032250	WGBP032250	32	250	0.75
WBBP032300	WGBP032300	32	300	0.90
WBBP032400	WGBP032400	32	400	1.22
WBBP032450	WGBP032450	32	450	1.37
WBBP032500	WGBP032500	32	500	1.53
WBBP032600	WGBP032600	32	600	1.84
	WGBP0322000	32	2000	6.40
WBBP040100	WGBP040100	40	100	0.31
WBBP040110	WGBP040110	40	110	0.35
WBBP040120	WGBP040120	40	120	0.38
WBBP040130	WGBP040130	40	130	0.42
WBBP040140	WGBP040140	40	140	0.46

# METAL FITTINGS

## STEEL FITTINGS

### Black & Galvanised Mild Steel Barrel Piece (continued)

Code Black	Code Galvanised	Metric Size	A	Approx Weight
WBBP040150	WGBP040150	40	150	0.49
WBBP040200	WGBP040200	40	200	0.67
WBBP040250	WGBP040250	40	250	0.85
WBBP040300	WGBP040300	40	300	1.03
WBBP040400	WGBP040400	40	400	1.39
WBBP040450	WGBP040450	40	450	1.57
WBBP040500	WGBP040500	40	500	1.76
WBBP040600	WGBP040600	40	600	2.12
	WGBP0402100	40	2100	7.53
WBBP050100	WGBP050100	50	100	0.43
WBBP050110	WGBP050110	50	110	0.48
WBBP050120	WGBP050120	50	120	0.53
WBBP050130	WGBP050130	50	130	0.58
WBBP050150	WGBP050150	50	150	0.68
WBBP050200	WGBP050200	50	200	0.94
WBBP050250	WGBP050250	50	250	1.19
WBBP050300	WGBP050300	50	300	1.45
WBBP050400	WGBP050400	50	400	1.97
WBBP050450	WGBP050450	50	450	2.21
WBBP050500	WGBP050500	50	500	2.47
WBBP050600	WGBP050600	50	600	2.98
	WGBP0501000	50	1000	5.02
	WGBP0501200	50	1200	6.03
WBBP065100	WGBP065100	65	100	0.52
WBBP065130	WGBP065130	65	130	0.82
WBBP065150	WGBP065150	65	150	0.84
WBBP065200	WGBP065200	65	200	1.17
WBBP065250	WGBP065250	65	250	1.50
WBBP065300	WGBP065300	65	300	1.82
WBBP065400	WGBP065400	65	400	2.43
WBBP065450	WGBP065450	65	450	2.76
WBBP065500	WGBP065500	65	500	3.12
WBBP065600	WGBP065600	65	600	3.77
WBBP080100	WGBP080100	80	100	0.78
WBBP080130	WGBP080130	80	130	0.92
WBBP080150	WGBP080150	80	150	1.09
WBBP080200	WGBP080200	80	200	1.51



## METAL FITTINGS

### STEEL FITTINGS



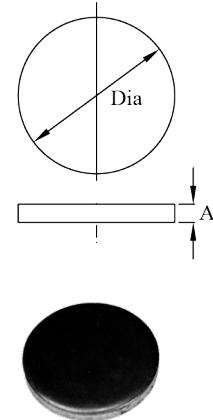
**Black & Galvanised Mild Steel Barrel Piece (continued)**

Code Black	Code Galvanised	Metric Size	A	Approx Weight
WBBP080250	WGBP080250	80	250	1.93
WBBP080300	WGBP080300	80	300	2.36
WBBP080400	WGBP080400	80	400	3.20
WBBP080450	WGBP080450	80	450	3.63
	WGBP080465	80	465	3.75
WBBP080500	WGBP080500	80	500	4.05
WBBP080600	WGBP080600	80	600	4.90
	WGBP080720	80	720	5.91
WBBP100100	WGBP100100	100	100	0.92
WBBP100130	WGBP100130	100	130	1.28
WBBP100150	WGBP100150	100	150	1.52
WBBP100200	WGBP100200	100	200	2.13
WBBP100250	WGBP100250	100	250	2.73
WBBP100300	WGBP100300	100	300	3.34
WBBP100400	WGBP100400	100	400	4.55
WBBP100450	WGBP100450	100	450	5.10
	WGBP100465	100	465	5.34
WBBP100500	WGBP100500	100	500	5.76
WBBP100600	WGBP100600	100	600	6.97
	WGBP100720	100	720	8.68
	WGBP1001000	100	1000	11.50
WBBP125200		125	200	3.58
	WGBP125400	125	400	7.10
	WGBP125465	125	465	7.85
	WGBP125500	125	500	8.45
	WGBP125600	125	600	9.31
	WGBP125720	125	720	11.24
	WGBP1251000	125	1000	16.76
WBBP150150	WGBP150150	150	150	2.35
	WGBP150465	150	465	9.30
	WGBP150720	150	720	19.74

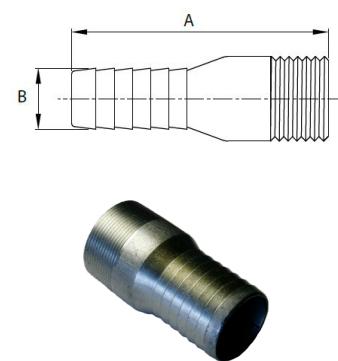
# METAL FITTINGS

## STEEL FITTINGS

Black Mild Steel Blank End				
Code	NB (mm)	Dia	A	Approx Weight
WBBE025	25	31	3.0	0.02
WBBE032	32	37	3.0	0.03
WBBE040	40	45	3.0	0.04
WBBE050	50	57	3.0	0.06
WBBE065	65	73	3.0	0.10
WBBE080	80	87	3.0	0.14
WBBE100	100	112	3.0	0.23
WBBE150	150	163	3.0	0.49



Galvanised Mild Steel Hose Tail				
Code	NB (mm)	A	B	Approx Weight
WGHT015	15	79.5	13.5	0.08
WGHT020	20	81.0	19.8	0.09
WGHT025	25	89.0	26.2	0.15
WGHT032	32	95.0	32.5	0.25
WGHT040	40	112.5	38.6	0.32
WGHT050	50	124.0	51.3	0.39
WGHT065	65	131.0	63.5	0.71
WGHT080	80	163.0	80.0	1.36
WGHT100	100	174.0	102.5	2.05
WGHT150	150	182.0	155.0	2.61



## METAL FITTINGS

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### FLANGES

#### SPECIFICATIONS

ANSI B16.5 – Pipe Flanges and Flanged Fittings (American)  
AS2129 – Flanges for Pipes, Valves and Fittings (Australian)  
BS4504 – Circular Flanges for Pipe, Valves and Fittings (PN designated) – (now BS EN1092) (European)  
AS4087 – Metallic Flanges for Waterworks Purposes (Australian)  
BS10 – Specification for Flanges and bolting for Pipes, Valves and Fittings (British)  
\*\*AS2129 is a replica of BS10 but is stated in mm rather than inches. In some sizes bolt holes are slightly larger to give better clearance

#### APPLICATION

Water Supply, Oil, Gas, Petrochemical, Irrigation, Fire Services, General Industry, Construction.

#### MARKING

All Flanges when possible will display a heat number, size, table, grade and dimensional standard.

#### PLATE STEEL FLANGES

Plate flanges are mainly used for light duty, lower pressure or non-critical applications, commonly referring to AS2129, BS10 or AS4087 standards. The manufacturing method involves cutting and machining from plate steel.

#### FORGED STEEL FLANGES

Forged Steel flanges are commonly used and specified in the Oil, Gas, Petrochemical and mining sectors, where pressure, temperature and safety considerations often specify the ANSI B16.5, ASME B16.47 or BS4504 standards. The manufacturing method involves the hot forging of suitable steels prior to final machining.

#### MATERIALS

Mild Carbon Steel, ASTM A105, BS4504 (DIN) flanges from PN6 TO PN40.

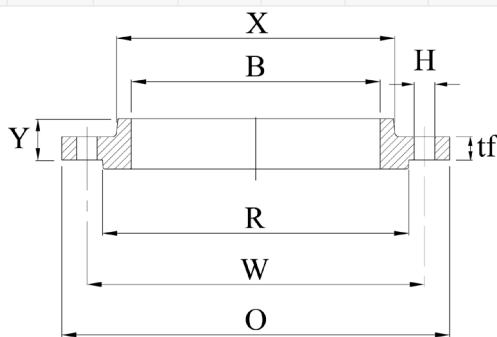
Asmuss can also offer a wide range of products on request.

# METAL FITTINGS

## FLANGES

**ANSI CL150 RF Slip On Flange B16.5 A105N (to suit Schedule STD pipe)**

Code	Pipe Dimensions		Flange Dimensions				Hub	Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	B	tf	Y				X	R	
FL150SO015S	15	21.3	90	22.2	9.6	14	30	34.9	4	15.9	60.3	0.44
FL150SO020S	20	26.7	100	27.7	11.2	14	38	42.9	4	15.9	69.9	0.63
FL150SO025S	25	33.4	110	34.5	12.7	16	49	50.8	4	15.9	79.4	0.78
FL150SO032S	32	42.2	115	43.2	14.3	19	59	63.5	4	15.9	88.9	1.03
FL150SO040S	40	48.3	125	49.5	15.9	21	65	73.0	4	15.9	98.4	1.42
FL150SO050S	50	60.3	150	61.9	17.5	24	78	92.1	4	19.1	120.7	2.06
FL150SO065S	65	73.0	180	74.6	20.7	27	90	104.8	4	19.1	139.7	3.28
FL150SO080S	80	88.9	190	90.7	22.3	29	108	127.0	4	19.1	152.4	3.85
FL150SO100S	100	114.3	230	116.1	22.3	32	135	157.2	8	19.1	190.5	5.30
FL150SO125S	125	141.3	255	143.8	22.3	35	164	185.7	8	22.2	215.9	6.07
FL150SO150S	150	168.3	280	170.7	23.9	38	192	215.9	8	22.2	241.3	7.45
FL150SO200S	200	219.1	345	221.5	27.0	43	246	269.9	8	22.2	298.5	12.10
FL150SO250S	250	273.0	405	276.2	28.6	48	305	323.8	12	25.4	362	16.50
FL150SO300S	300	323.8	485	327.0	30.2	54	365	381.0	12	25.4	431.8	26.20
FL150SO350S	350	355.6	535	359.2	33.4	56	400	412.8	12	28.6	476.3	34.60
FL150SO400S	400	406.4	595	410.5	35.0	62	457	469.9	16	28.6	539.8	44.80
FL150SO450S	450	457.2	635	461.8	38.1	67	505	533.4	16	31.8	577.9	52.00
FL150SO500S	500	508.0	700	513.1	41.3	71	559	584.2	20	31.8	635	61.90
FL150SO600S	600	609.6	815	616.0	46.1	81	663	692.2	20	35.0	749.3	86.90

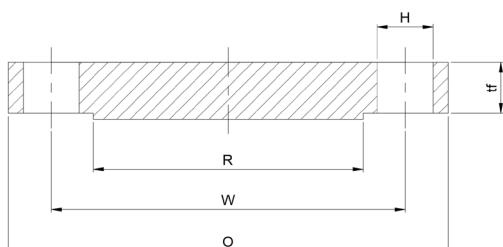


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## METAL FITTINGS

### FLANGES

ANSI CL150 Blind Flange B16.5 A105N									
Code	Pipe Dimensions		Flange Dimensions		Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	tf			R	N	
FL150BL015S	15	21.3	90	9.6	34.9	4	15.9	60.3	0.42
FL150BL020S	20	26.7	100	11.2	42.9	4	15.9	69.9	0.61
FL150BL025S	25	33.4	110	12.7	50.8	4	15.9	79.4	0.86
FL150BL032S	32	42.2	115	14.3	63.5	4	15.9	88.9	1.17
FL150BL040S	40	48.3	125	15.9	73.0	4	15.9	98.4	1.53
FL150BL050S	50	60.3	150	17.5	92.1	4	19.1	120.7	2.42
FL150BL065S	65	73.0	180	20.7	104.8	4	19.1	139.7	3.94
FL150BL080S	80	88.9	190	22.3	127.0	4	19.1	152.4	4.93
FL150BL100S	100	114.3	230	22.3	157.2	8	19.1	190.5	7.00
FL150BL125S	125	141.3	255	22.3	185.7	8	22.2	215.9	8.63
FL150BL150S	150	168.3	280	23.9	215.9	8	22.2	241.3	11.30
FL150BL200S	200	219.1	345	27.0	269.9	8	22.2	298.5	19.60
FL150BL250S	250	273.0	405	28.6	323.8	12	25.4	362.0	28.80
FL150BL300S	300	323.8	485	30.2	381.0	12	25.4	431.8	43.20
FL150BL350S	350	355.6	535	33.4	412.8	12	28.6	476.3	58.10
FL150BL400S	400	406.4	595	35.0	469.9	16	28.6	539.8	76.00
FL150BL450S	450	457.2	635	38.1	533.4	16	31.8	577.9	93.70
FL150BL500S	500	508.0	700	41.3	584.2	20	31.8	635.0	122.00
FL150BL600S	600	609.6	815	46.1	692.2	20	35.0	749.3	185.00

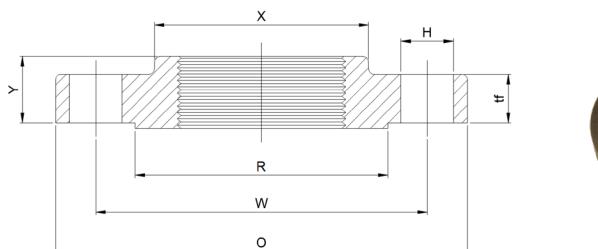


# METAL FITTINGS

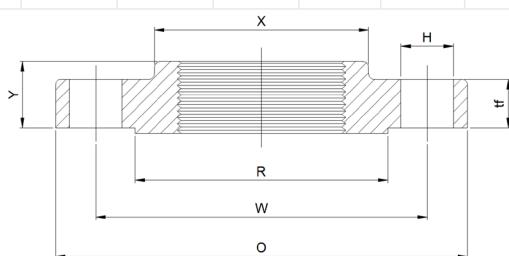
## FLANGES

**ANSI CL150 RF BSP Screwed Flange B16.5 A105N**

Code	Pipe Dimensions		Flange Dimensions			Hub	Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	tf	Y				X	R	
FLSC150015S	15	21.3	90	9.6	14	30	34.9	4	15.9	60.3	0.45
FLSC150020S	20	26.7	100	11.2	14	38	42.9	4	15.9	69.9	0.68
FLSC150025S	25	33.4	110	12.7	16	49	50.8	4	15.9	79.4	0.89
FLSC150032S	32	42.2	115	14.3	19	59	63.5	4	15.9	88.9	1.13
FLSC150040S	40	48.3	125	15.9	21	65	73.0	4	15.9	98.4	1.36
FLSC150050S	50	60.3	150	17.5	24	78	92.1	4	19.1	120.7	2.26


**ANSI CL150 RF BSP Screwed Flange Galvanized B16.5 A105N**

Code	Pipe Dimensions		Flange Dimensions			Hub	Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	tf	Y				X	R	
FLSC150G015S	15	21.3	90	9.6	14	30	34.9	4	15.9	60.3	0.45
FLSC150G020S	20	26.7	100	11.2	14	38	42.9	4	15.9	69.9	0.68
FLSC150G025S	25	33.4	110	12.7	16	49	50.8	4	15.9	79.4	0.89
FLSC150G032S	32	42.2	115	14.3	19	59	63.5	4	15.9	88.9	1.13
FLSC150G040S	40	48.3	125	15.9	21	65	73.0	4	15.9	98.4	1.36
FLSC150G050S	50	60.3	150	17.5	24	78	92.1	4	19.1	120.7	2.26



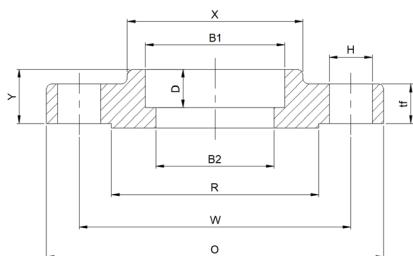
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## METAL FITTINGS

### FLANGES

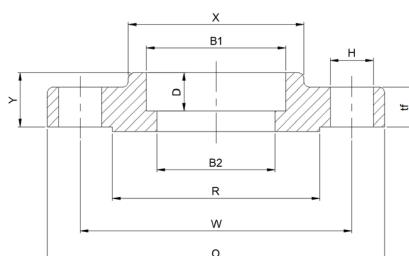
**ANSI CL150 RF Socket Weld Flange B16.5 A105N (to suit Schedule STD pipe)**

Code	Pipe Dimensions		Flange Dimensions						Hub	Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	B1	B2	tf	D	Y	X	R	N	H	W	
FL150SW020S	20	26.7	100	27.7	20.9	11.2	11	14	38	42.9	4	15.9	69.9	0.71
FL150SW025S	25	33.4	110	34.5	26.6	12.7	13	16	49	50.8	4	15.9	79.4	0.81
FL150SW040S	40	48.3	125	49.5	40.9	15.9	16	21	65	73.0	4	15.9	98.4	1.36
FL150SW050S	50	60.6	150	61.9	52.5	17.5	17	24	78	92.1	4	19.1	120.7	2.10



**ANSI CL150 RF Socket Weld Flange B16.5 A105N (to suit Schedule XS pipe)**

Code	Pipe Dimensions		Flange Dimensions						Hub	Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	B1	B2	tf	D	Y	X	R	N	H	W	
FL150SWX015S	15	21.3	90	22.2	13.8	9.6	10	14	30	34.9	4	15.9	60.3	0.42
FL150SWX020S	20	26.7	100	27.7	18.9	11.2	11	14	38	42.9	4	15.9	69.9	0.59
FL150SWX025S	25	33.4	110	34.5	24.2	12.7	13	16	49	50.8	4	15.9	79.4	0.81
FL150SWX032S	32	42.2	115	43.2	32.5	14.3	14	19	59	63.5	4	15.9	88.9	1.07
FL150SWX040S	40	48.3	125	49.5	38.2	15.9	16	21	65	73.0	4	15.9	98.4	1.36
FL150SWX050S	50	60.6	150	61.9	49.3	17.5	17	24	78	92.1	4	19.1	120.7	2.10

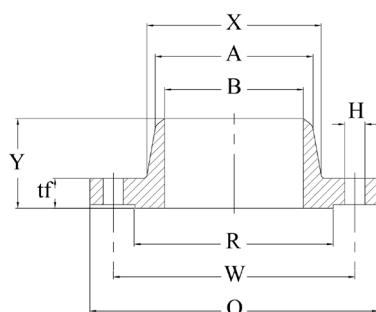


# METAL FITTINGS

## FLANGES

**ANSI CL150 RF Weld Neck Flange B16.5 A105N (to suit Schedule STD pipe)**

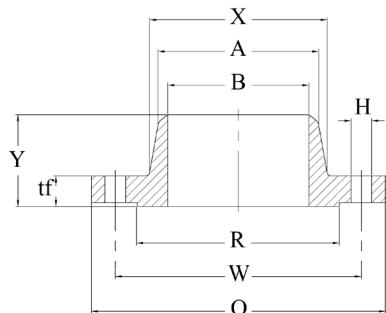
Code	Pipe Dimensions		Flange Dimensions				Hub		Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	B	tf	Y	A	X	R	N	H	W	
FL150WN015S	15	21.3	90	15.8	9.6	46	21.3	30	34.9	4	15.9	60.3	0.48
FL150WN020S	20	26.7	100	20.9	11.2	51	26.7	38	42.9	4	15.9	69.9	0.71
FL150WN025S	25	33.4	110	26.6	12.7	54	33.4	49	50.8	4	15.9	79.4	1.01
FL150WN032S	32	42.4	115	35.1	14.3	56	42.2	59	63.5	4	15.9	88.9	1.33
FL150WN040S	40	48.3	125	40.9	15.9	60	48.3	65	73.0	4	15.9	98.4	1.72
FL150WN050S	50	60.3	150	52.5	17.5	62	60.3	78	92.1	4	19.1	120.7	2.58
FL150WN065S	65	73.0	180	62.7	20.7	68	73.0	90	104.8	4	19.1	139.7	4.11
FL150WN080S	80	88.9	190	77.9	22.3	68	88.9	108	127.0	4	19.1	152.4	4.92
FL150WN100S	100	114.3	230	102.3	22.3	75	114.3	135	157.2	8	19.1	190.5	6.84
FL150WN125S	125	141.3	255	128.2	22.3	87	141.3	164	185.7	8	22.2	215.9	8.56
FL150WN150S	150	168.3	280	154.1	23.9	87	168.3	192	215.9	8	22.2	241.3	10.60
FL150WN200S	200	219.1	345	202.7	27.0	100	219.1	246	269.9	8	22.2	298.5	17.60
FL150WN250S	250	273.0	405	254.6	28.6	100	273.0	305	323.8	12	25.4	362.0	24.00
FL150WN300S	300	323.8	485	304.8	30.2	113	323.8	365	381.0	12	25.4	431.8	36.50
FL150WN350S	350	355.6	535		33.4	125	355.6	400	412.8	12	28.6	476.3	48.40
FL150WN400S	400	406.4	595		35.0	125	406.4	457	469.9	16	28.6	539.8	60.60
FL150WN450S	450	457.2	635		38.1	138	457.0	505	533.4	16	31.8	577.9	68.30
FL150WN500S	500	508.0	700		41.3	143	508.0	559	584.2	20	31.8	635.0	84.50
FL150WN600S	600	609.6	815		46.1	151	610.0	663	692.2	20	35.0	749.3	115.00



## METAL FITTINGS

### FLANGES

ANSI CL150 RF Weld Neck Flange B16.5 A105N (to suit Schedule XS pipe)													
Code	Pipe Dimensions		Flange Dimensions				Hub		Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	B	tf	Y	A	X	R	N	H	W	
FL150WNX020S	20	26.7	100	18.9	11.2	51	26.7	38	42.9	4	15.9	69.9	0.87
FL150WNX025S	25	33.4	110	24.2	12.7	54	33.4	49	50.8	4	15.9	79.4	1.01
FL150WNX032S	32	42.4	115	32.5	14.3	56	42.2	59	63.5	4	15.9	88.9	1.33
FL150WNX040S	40	48.3	125	38.2	15.9	60	48.3	65	73.0	4	15.9	98.4	1.72
FL150WNX050S	50	60.3	150	49.3	17.5	62	60.3	78	92.1	4	19.1	120.7	2.58
FL150WNX065S	65	73.0	180	59	20.7	68	73.0	90	104.8	4	19.1	139.7	4.11
FL150WNX080S	80	88.9	190	73.7	22.3	68	88.9	108	127.0	4	19.1	152.4	4.92
FL150WNX100S	100	114.3	230	97.2	22.3	75	114.3	135	157.2	8	19.1	190.5	6.84
FL150WNX150S	150	168.3	280	146.4	23.9	87	168.3	192	215.9	8	22.2	241.3	10.60
FL150WNX200S	200	219.1	345	193.7	27.0	100	219.1	246	269.9	8	22.2	298.5	17.60
FL150WNX250S	250	273.0	405	247.7	28.6	100	273.0	305	323.8	12	25.4	362.0	24.00
FL150WNX300S	300	323.8	485	298.5	30.2	113	323.8	365	381.0	12	25.4	431.8	36.50

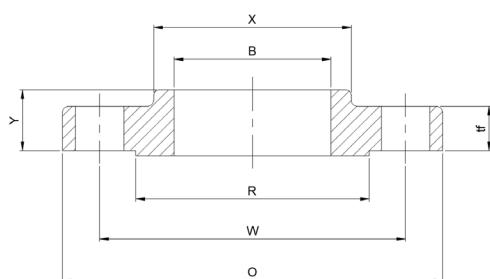


# METAL FITTINGS

## FLANGES

**ANSI CL300 RF Slip On Flange B16.5 A105N (to suit Schedule STD pipe)**

Code	Pipe Dimensions		Flange Dimensions				Hub	Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	B	tf	Y				X	R	
FL300SO015S	15	21.3	95	22.2	12.7	21	38	34.9	4	15.9	66.7	0.64
FL300SO020S	20	26.7	115	27.7	14.3	24	48	42.9	4	19.1	82.6	1.12
FL300SO025S	25	33.4	125	34.5	15.9	25	54	50.8	4	19.1	88.9	1.36
FL300SO032S	32	42.2	135	43.2	17.5	25	64	63.5	4	19.1	98.4	1.68
FL300SO040S	40	48.3	155	49.5	19.1	29	70	73.0	4	22.2	114.3	2.49
FL300SO050S	50	60.3	165	61.9	20.7	32	84	92.1	8	19.1	127.0	2.87
FL300SO065S	65	73.0	190	74.6	23.9	37	100	104.8	8	22.2	149.2	4.32
FL300SO080S	80	88.9	210	90.7	27.0	41	117	127.0	8	22.2	168.3	5.85
FL300SO100S	100	114.3	255	116.1	30.2	46	146	157.2	8	22.2	200.0	9.61
FL300SO125S	125	141.3	280	143.8	33.4	49	178	185.7	8	22.2	235.0	12.30
FL300SO150S	150	168.3	320	170.7	35.0	51	206	215.9	12	22.2	269.9	15.60
FL300SO200S	200	219.1	380	221.5	39.7	60	260	269.9	12	25.4	330.2	24.20
FL300SO250S	250	273.0	445	276.2	46.1	65	321	323.8	16	28.6	387.4	34.10
FL300SO300S	300	323.8	520	372.0	49.3	71	375	381.0	16	31.8	450.8	49.80

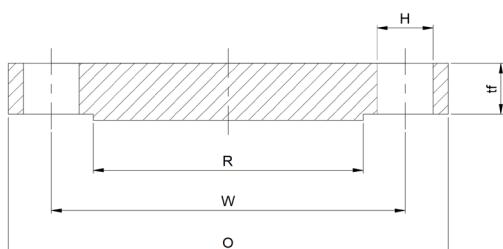


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## METAL FITTINGS

### FLANGES

ANSI CL300 Blind Flange B16.5 A105N									
Code	Pipe Dimensions		Flange Dimensions		Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	tf	R	N	H	W	
FL300BL015S	15	21.3	95	12.7	34.9	4	15.9	66.7	0.64
FL300BL020S	20	26.7	115	14.3	42.9	4	19.1	82.6	1.11
FL300BL025S	25	33.4	125	15.9	50.8	4	19.1	88.9	1.39
FL300BL032S	32	42.2	135	17.5	63.5	4	19.1	98.4	1.79
FL300BL040S	40	48.3	155	19.1	73.0	4	22.2	114.3	2.66
FL300BL050S	50	60.3	165	20.7	92.1	8	19.1	127.0	3.18
FL300BL065S	65	73.0	190	23.9	104.8	8	22.2	149.2	4.85
FL300BL080S	80	88.9	210	27.0	127.0	8	22.2	168.3	6.81
FL300BL100S	100	114.3	255	30.2	157.2	8	22.2	200.0	11.50
FL300BL125S	125	141.3	280	33.4	185.7	8	22.2	235.0	15.60
FL300BL150S	150	168.3	320	35.0	215.9	12	22.2	269.9	20.90
FL300BL200S	200	219.1	380	39.7	269.9	12	25.4	330.2	34.30
FL300BL250S	250	273.0	445	46.1	323.8	16	28.6	387.4	54.98
FL300BL300S	300	323.8	520	49.3	381.0	16	31.8	450.8	78.80
FL300BL350S	350	355.6	585	52.4	412.8	20	31.8	514.4	113.60
FL300BL400S	400	406.4	650	55.6	469.9	20	34.9	571.5	137.00
FL300BL450S	450	457.2	710	58.8	533.4	24	34.9	628.6	179.50
FL300BL500S	500	508.0	775	62	584.2	24	34.9	685.8	229.50
FL300BL600S	600	609.6	915	68.3	692.2	24	41.3	812.8	359.10

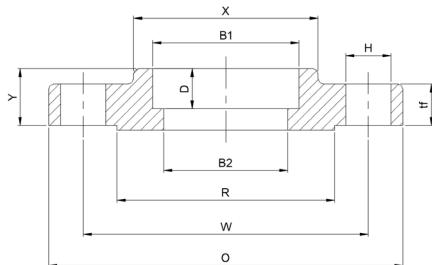


# METAL FITTINGS

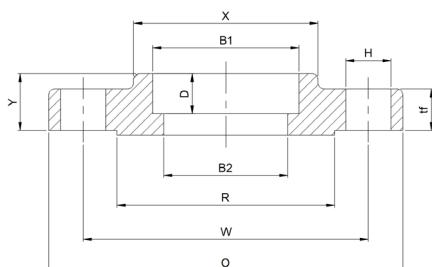
## FLANGES

**ANSI CL300 RF Socket Weld Flange B16.5 A105N (to suit Schedule STD pipe)**

Code	Pipe Dimensions		Flange Dimensions							Hub	Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	B1	B2	D	tf	Y	X				H	W	
FL300SW025S	25	33.4	125	34.5	26.6	13	15.9	25	54	50.8	4	19.1	88.9	1.40	
FL300SW032S	32	42.2	135	43.2	35.1	14	17.5	25	64	63.5	4	19.1	98.4	1.75	
FL300SW050S	50	60.3	165	61.9	52.5	17	20.7	32	84	92.1	8	19.1	127.0	3.07	


**ANSI CL300 RF Socket Weld Flange B16.5 A105N (to suit Schedule XS pipe)**

Code	Pipe Dimensions		Flange Dimensions							Hub	Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	B1	B2	D	tf	Y	X				H	W	
FL300SWX015S	15	21.3	95	22.2	13.8	10	12.7	21	38	34.9	4	15.9	66.7	0.73	
FL300SWX020S	20	26.7	115	27.7	18.9	11	14.3	24	48	42.9	4	19.1	82.6	1.13	
FL300SWX025S	25	33.4	125	34.5	24.2	13	15.9	25	54	50.8	4	19.1	88.9	1.40	
FL300SWX032S	32	42.2	135	43.2	32.5	14	17.5	25	64	63.5	4	19.1	98.4	1.75	
FL300SWX040S	40	48.3	155	49.5	38.2	16	19.1	29	70	73.0	4	22.2	114.3	2.55	
FL300SWX050S	50	60.3	165	61.9	49.3	17	20.7	32	84	92.1	8	19.1	127.0	3.13	

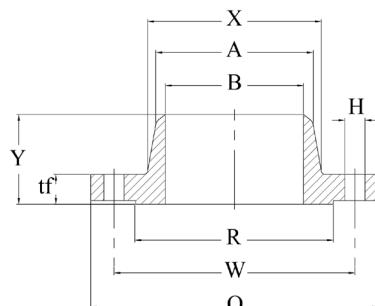


**THE SMARTER CHOICE.**

## METAL FITTINGS

### FLANGES

ANSI CL300 RF Weld Neck Flange B16.5 A105N (to suit Schedule STD pipe)													
Code	Pipe Dimensions		Flange Dimensions				Neck		Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	B	tf	Y	A	X	R	N	H	W	
FL300WN025S	25	33.4	125	26.6	15.9	60	33.4	54	50.8	4	19.1	88.9	1.52
FL300WN032S	32	42.2	135	35.1	17.5	64	42.2	64	63.5	4	19	98.4	2.03
FL300WN040S	40	48.3	155	40.9	19.1	67	48.3	70	73.0	4	22.2	114.3	2.89
FL300WN050S	50	60.3	165	52.5	20.7	68	60.3	84	92.1	8	19.1	127.0	3.40
FL300WN065S	65	73.0	190	62.7	23.9	75	73.0	100	104.8	8	22.2	149.2	5.20
FL300WN080S	80	88.9	210	77.9	27.0	78	88.9	117	127.0	8	22.2	168.3	6.93
FL300WN100S	100	114.3	255	102.3	30.2	84	114.3	146	157.2	8	22.2	200.0	11.20
FL300WN150S	150	168.3	320	154.1	35.0	97	168.3	206	215.9	12	22.2	269.9	19.10
FL300WN200S	200	219.1	380	202.7	39.7	110	219.1	260	269.9	12	25.4	330.2	29.90
FL300WN250S	250	273.0	445	254.6	46.1	116	273.0	321	323.8	16	28.6	387.4	42.70
FL300WN300S	300	323.8	520	304.8	49.3	129	323.8	375	381.0	16	31.8	450.8	61.80
FL300WN350S	350	355.6	585		52.4	141	355.6	425	412.8	20	31.8	514.4	85.80

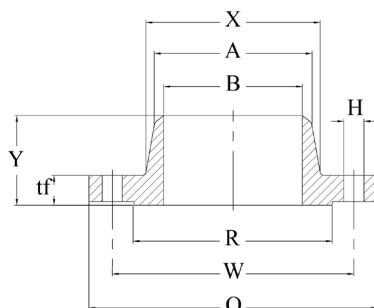


# METAL FITTINGS

## FLANGES

**ANSI CL300 RF WELD Neck Flange B16.5 A105N (to suit Schedule XS pipe)**

Code	Pipe Dimensions		Flange Dimensions				Neck		Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	B	tf	Y	A	X	R	N	H	W	
FL300WNX015S	15	21.3	95	13.8	12.7	51	21.3	38	34.9	4	15.9	66.7	0.64
FL300WNX020S	20	26.7	115	18.9	14.3	56	26.7	48	42.9	4	19.1	82.6	1.12
FL300WNX025S	25	33.4	125	24.2	15.9	60	33.4	54	50.8	4	19.1	88.9	1.36
FL300WNX032S	32	42.2	135	32.5	17.5	64	42.2	64	63.5	4	19.1	98.4	1.68
FL300WNX040S	40	48.3	155	38.2	19.1	67	48.3	70	73.0	4	22.2	114.3	2.49
FL300WNX050S	50	60.3	165	49.3	20.7	68	60.3	84	92.1	8	19.1	127.0	2.87
FL300WNX065S	65	73.0	190	59.0	23.9	75	73.0	100	104.8	8	22.2	149.2	4.32
FL300WNX080S	80	88.9	210	73.7	27.0	78	88.9	117	127.0	8	22.2	168.3	5.85
FL300WNX100S	100	114.3	255	97.2	30.2	84	114.3	146	157.2	8	22.2	200.0	9.61
FL300WNX125S	125	141.3	280	122.3	33.4	97	141.3	178	185.7	8	22.2	235.0	12.30
FL300WNX150S	150	168.3	320	146.4	35.0	97	168.3	206	215.9	12	22.2	269.9	15.60
FL300WNX200S	200	219.1	380	193.7	39.7	110	219.1	260	269.9	12	25.4	330.2	24.20
FL300WNX250S	250	273.0	445	247.7	46.1	116	273.0	321	323.8	16	28.6	387.4	34.10
FL300WNX300S	300	323.8	520	298.5	49.3	129	323.8	375	381.0	16	31.8	450.8	49.80
FL300WNX350S	350	355.6	585		52.4	141	355.6	425	412.8	20	31.8	514.4	84.37
FL300WNX400S	400	406.4	650		55.6	144	406.4	483	469.9	20	35.0	571.5	113.00
FL300WNX450S	450	457.2	710		58.8	157	457.0	533	533.4	24	35.0	628.6	140.00
FL300WNX500S	500	508.0	775		62.0	160	508.0	587	584.2	24	35.0	685.6	178.00
FL300WNX600S	600	609.6	915		68.3	167	610.0	702	692.2	24	41.3	812.8	250.00



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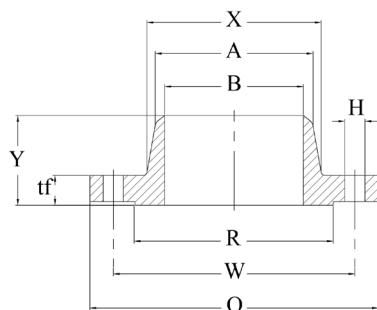
## METAL FITTINGS

### FLANGES

**ANSI CL600 RF Weld Neck Flange B16.5 A105N (to suit Schedule XS pipe)**

Code	Pipe Dimensions		Flange Dimensions				Neck		Raised Face	Number Holes	Drilling Template		Approx Weight		
	NB	OD	O	B	tf	Y	A	X			N	H			
FL600WNX015S	15	21.3	95				14.3	52	21.3	38	34.9	4	15.9	66.7	0.94
FL600WNX020S	20	26.7	115				15.9	57	26.7	48	42.9	4	19.1	82.6	1.59
FL600WNX025S	25	33.4	125				17.5	62	33.4	54	50.8	4	19.1	88.9	1.76
FL600WNX040S	40	48.3	155				22.3	70	48.3	70	73.0	4	22.2	114.3	3.49
FL600WNX050S	50	60.3	165				25.4	73	60.5	84	92.1	8	19.1	127.0	4.36
FL600WNX065S	65	73.0	190				28.6	79	73.0	100	104.8	8	22.2	149.2	6.43
FL600WNX080S	80	88.9	210				31.8	83	88.9	117	127.0	8	22.2	168.3	8.53
FL600WNX100S	100	114.3	275				38.1	102	114.3	152	157.2	8	25.4	215.9	17.40
FL600WNX150S	150	168.3	355				47.7	117	168.3	222	215.9	12	28.6	292.1	34.90
FL600WNX200S	200	219.1	420				55.6	133	219.1	273	269.9	12	31.8	349.2	53.90
FL600WNX250S	250	273.0	510				63.5	152	273.0	343	323.8	16	35.0	431.8	86.50
FL600WNX300S	300	323.8	560				66.7	156	323.8	400	381.0	20	35.0	489.0	103.00

To be specified by purchaser

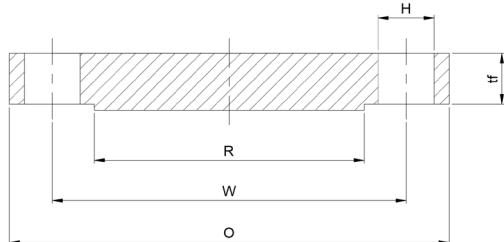


# METAL FITTINGS

## FLANGES

**ANSI CL600 Blind Flange B16.5 A105N**

Code	Pipe Dimensions		Flange Dimensions		Raised Face	Number Holes	Drilling Template		Approx Weight
	NB	OD	O	tf	R	N	H	W	
FL600BL015S	15	21.3	95	14.3	34.9	4	15.9	66.7	0.70
FL600BL020S	20	26.7	115	15.9	42.9	4	19.1	82.6	1.50
FL600BL025S	25	33.4	125	17.5	50.8	4	19.1	88.9	1.60
FL600BL040S	40	48.3	155	22.3	73.0	4	22.2	114.3	3.25
FL600BL050S	50	60.3	165	25.4	92.1	8	19.1	127.0	4.15
FL600BL065S	65	73.0	190	28.6	104.8	8	22.2	149.2	6.13
FL600BL080S	80	88.9	210	31.8	127.0	8	22.2	168.3	8.44
FL600BL100S	100	114.3	275	38.1	157.2	8	25.4	215.9	17.30
FL600BL150S	150	168.3	355	47.7	215.9	12	28.6	292.1	36.10
FL600BL200S	200	219.1	420	55.6	269.9	12	31.8	349.2	58.90
FL600BL250S	250	273.0	510	63.5	323.8	16	35.0	431.8	98.00

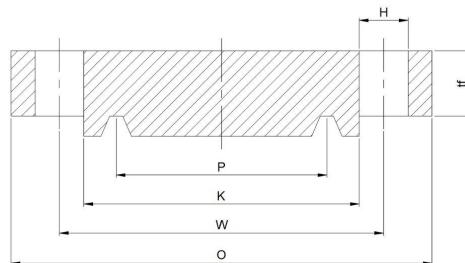


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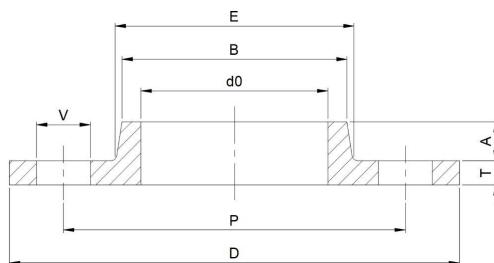
## METAL FITTINGS

### FLANGES

ANSI CL600 RTJ Blind Flange B16.5 A105N										
Code	Pipe Dimensions		Flange Dimensions		Raised Face		Number Holes	Drilling Template		Approx Weight
	NB	OD	O	tf	K	P		N	H	
FL600BLRTJ050S	50	60.3	165	25.4	108	82.6	8	19.1	127.0	4.15
FL600BLRTJ080S	80	88.9	210	31.8	146	123.8	8	22.2	168.3	8.44
FL600BLRTJ100S	100	114.3	275	38.1	175	149.2	8	25.4	215.9	17.30
FL600BLRTJ150S	150	168.3	355	47.7	241	211.1	12	28.6	292.1	36.10
FL600BLRTJ200S	200	219.1	420	55.6	302	269.9	12	31.8	349.2	58.90
FL600BLRTJ250S	250	273.0	510	63.5	356	323.9	16	35.0	431.8	97.50
FL600BLRTJ300S	300	323.8	560	66.7	413	381.0	20	35.0	489.0	124.00



Code	Pipe Dimensions		Flange Dimensions						Num-ber Holes	Drilling		Approx Weight
	NB	OD	D	d0	T	A	B	E		V	P	
FLTDSO100	100	114.3	215	116.5	10	19	133	140	4	18	178	2.63
FLTDSO125	125	139.7	255	142.5	13	19	160	171	8	18	210	4.15
FLTDSO150	150	165.1	280	168.0	13	19	186	197	8	18	235	4.95
FLTDSO200	200	219.1	335	222.1	13	22	241	254	8	18	292	6.76
FLTDSO250	250	273.0	405	275.5	16	27	298	310	8	22	356	11.78
FLTDSO300	300	323.9	455	326.8	19	29	349	360	12	22	406	15.10

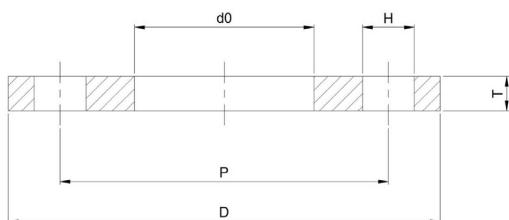


# METAL FITTINGS

## FLANGES

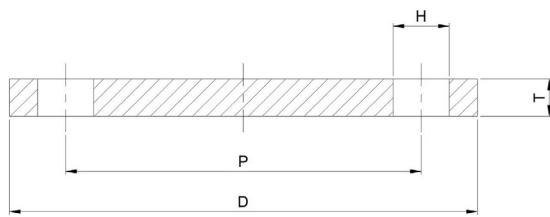
**Slip On Plate Flange AS2129 (Table D)**

Code	Pipe Dimensions		Flange Dimensions			Number Holes	Drilling		Approx Weight
	NB	OD	D	d0	T		H	P	
FLTDSO080P	80	88.9	185	90.9	12	4	18	146	1.96
FLTDSO100P	100	114.3	215	116.5	12	4	18	178	2.44
FLTDSO150P	150	165.1	280	168.0	13	8	18	235	3.94
FLTDSO250P	250	273.0	405	275.5	16	8	22	356	8.81



**Blind Flange AS2129 - Table D**

Code	Pipe Dimensions		Flange Dimensions		Number Holes	Drilling		Approx Weight
	NB	OD	D	T		N	H	
FLTDBL100	100	114.3	215	12	4	18	178	3.45
FLTDBL150	150	165.1	280	13	8	18	235	6.27
FLTDBL200	200	219.1	335	13	8	18	292	6.67
FLTDBL250	250	273.0	405	16	8	22	356	16.14
FLTDBL300	300	323.9	455	19	12	22	406	24.45

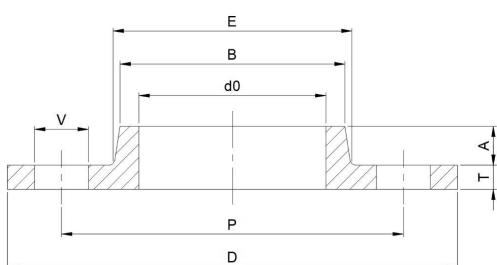


## METAL FITTINGS

### FLANGES

**Slip On Forged Flat Face Flange As2129 - Table E**

Code	Pipe Dimensions		Flange Dimensions						Number Holes	Drilling		Approx Weight
	NB	OD	D	d0	T	A	B	E		V	P	
FLTESO015	15	21.3	95	23.1	6	10	33	38	4	14	67	0.40
FLTESO020	20	26.9	100	28.7	6	11	38	44	4	14	73	0.37
FLTESO025	25	33.7	115	35.4	7	11	48	52	4	14	83	0.60
FLTESO032	32	42.4	120	44.5	8	11	56	58	4	14	87	0.70
FLTESO040	40	48.3	135	50.3	9	13	62	70	4	14	98	1.05
FLTESO050	50	60.3	150	62.3	10	13	75	79	4	18	114	1.31
FLTESO065	65	76.1	165	78.2	10	16	90	93	4	18	127	1.55
FLTESO080	80	88.9	185	90.9	11	16	106	112	4	18	146	2.15
FLTESO100	100	114.3	215	116.5	13	19	133	140	8	18	178	3.31
FLTESO125	125	139.7	255	142.5	14	19	160	171	8	18	210	4.75
FLTESO150	150	165.1	280	168.0	17	19	186	191	8	22	235	6.00
FLTESO150-172 ID	150	168.3	280	172.0	17	19	186	191	8	22	235	5.80
FLTESO200	200	219.1	335	222.1	19	22	241	249	8	22	292	8.74
FLTESO250	250	273.0	405	275.5	22	27	298	310	12	22	356	14.05
FLTESO300	300	323.9	455	326.8	25	29	349	354	12	26	406	17.83

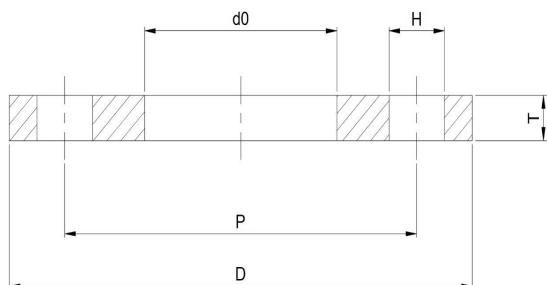


# METAL FITTINGS

## FLANGES

**Slip On Plate Flange AS2129 (Table E)**

Code	Pipe Dimensions		Flange Dimensions			Number Holes	Drilling		Approx Weight
	NB	OD	D	d0	T		H	P	
FLTESO015P	15	21.3	95	23.1	12	4	14	67	0.34
FLTESO050P	50	60.3	150	62.3	12	4	18	114	1.34
FLTESO065P	65	76.1	165	78.2	12	4	18	127	1.57
FLTESO080P	80	88.9	185	90.9	12	4	18	146	1.85
FLTESO100P	100	114.3	215	116.5	13	8	18	178	2.52
FLTESO125P	125	139.7	255	142.5	14	8	18	210	3.72
FLTESO150P	150	165.1	280	168.0	17	8	22	235	5.02
FLTESO150P-172 ID	150	168.3	280	172.0	17	8	22	235	4.85
FLTESO200P	200	219.1	335	222.1	19	8	22	292	6.96
FLTESO250P	250	273.0	405	275.5	22	12	22	356	11.46
FLTESO300P	300	323.9	455	326.8	25	12	26	406	14.78
FLTESO350P	350	355.6	525	358.6	29	12	26	470	25.73
FLTESO400P	400	406.4	580	410.4	32	12	26	521	32.05
FLTESO450P	450	457.2	640	461.2	35	16	26	584	40.50
FLTESO500P	500	508.0	705	512.0	38	16	26	641	53.24
FLTESO550P	550	558.8	760		44	16	30	699	67.50
FLTESO600P	600	609.6	825	613.6	48	16	33	756	85.50
FLTESO700P	700	711.2	910		51	20	33	845	94.50

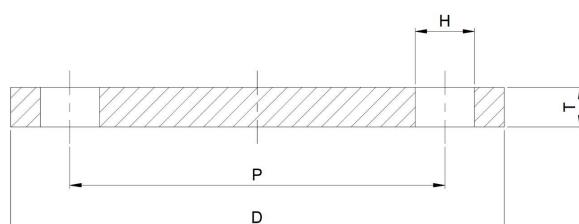


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## METAL FITTINGS

### FLANGES

Blind Flange AS2129 - Table E								
Code	Pipe Dimensions		Flange Dimensions		Number Holes	Drilling		Approx Weight
	NB	OD	D	T		H	P	
FLTEBL015	15	21.3	95	12	4	14	67	0.65
FLTEBL020	20	26.9	100	12	4	14	73	0.73
FLTEBL025	25	33.7	115	12	4	14	83	0.98
FLTEBL032	32	42.4	120	12	4	14	87	1.05
FLTEBL040	40	48.3	135	12	4	14	98	1.32
FLTEBL050	50	60.3	150	12	4	18	114	1.63
FLTEBL065	65	76.1	165	12	4	18	127	2.02
FLTEBL080	80	88.9	185	12	4	18	146	2.45
FLTEBL100	100	114.3	215	13	8	18	178	3.60
FLTEBL125	125	139.7	255	14	8	18	210	5.52
FLTEBL150	150	165.1	280	17	8	22	235	8.00
FLTEBL200	200	219.1	335	19	8	22	292	13.15
FLTEBL250	250	273.0	405	22	12	22	356	21.85
FLTEBL300	300	323.9	455	25	12	26	406	31.38
FLTEBL350	350	355.6	525	29	12	26	470	48.98
FLTEBL400	400	406.4	580	32	12	26	521	65.34
FLTEBL450	450	457.2	640	35	16	26	584	86.90
FLTEBL500	500	508.0	705	38	16	26	641	114.50
FLTEBL600	600	609.6	825	48	16	33	756	

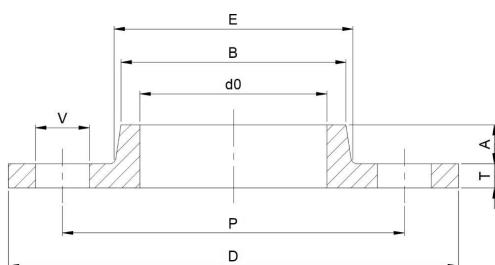


# METAL FITTINGS

## FLANGES

**Slip On Forged Flat Face Flange AS2129 - Table H**

Code	Pipe Dimensions		Flange Dimensions						Number Holes	Drilling		Approx Weight
	NB	OD	D	d0	T	A	B	E		V	P	
FLTHSO015	15	21.3	115	23.1	13	10	33	48	4	18	83	1.04
FLTHSO020	20	26.9	115	28.7	13	11	38	48	4	18	83	1.00
FLTHSO025	25	33.7	120	35.4	14	11	48	52	4	18	87	1.16
FLTHSO032	32	42.4	135	44.5	17	11	56	64	4	18	98	1.73
FLTHSO040	40	48.3	140	50.3	17	13	62	70	4	18	105	1.85
FLTHSO050	50	60.3	165	62.3	19	13	75	93	4	18	127	2.80
FLTHSO065	65	76.1	185	78.2	19	16	90	112	8	18	146	3.45
FLTHSO080	80	88.9	205	90.9	22	16	106	130	8	18	165	4.90
FLTHSO100	100	114.3	230	116.5	25	19	133	152	8	18	191	6.67
FLTHSO125	125	139.7	280	142.5	29	19	160	191	8	22	235	11.20
FLTHSO150	150	165.1	305	168.0	29	19	186	216	12	22	260	12.00
FLTHSO200	200	219.1	370	222.1	32	22	241	279	12	22	324	18.95
FLTHSO250	250	273.0	430	275.5	35	27	298	329	12	26	381	25.80
FLTHSO300	300	323.9	490	326.8	41	29	349	386	16	26	438	36.50

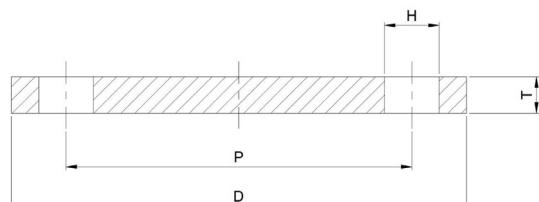


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## METAL FITTINGS

### FLANGES

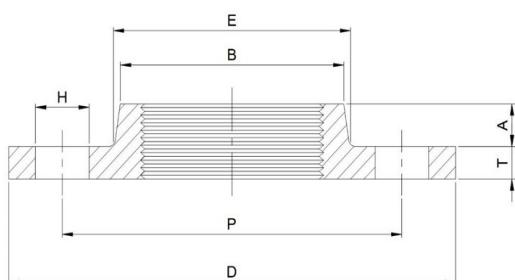
Blind Flange AS2129 - Table H								
Code	Pipe Dimensions		Flange Dimensions		Number Holes	Drilling		Approx Weight
	NB	OD	D	T		H	P	
FLTHBL015	15	21.3	115	13	4	18	83	0.99
FLTHBL020	20	26.9	115	13	4	18	83	1.00
FLTHBL025	25	33.7	120	14	4	18	87	1.18
FLTHBL032	32	42.4	135	17	4	18	98	1.95
FLTHBL040	40	48.3	140	17	4	18	105	2.10
FLTHBL050	50	60.3	165	19	4	18	127	3.09
FLTHBL065	65	76.1	185	19	8	18	146	3.76
FLTHBL080	80	88.9	205	22	8	18	165	5.53
FLTHBL100	100	114.3	230	25	8	18	191	8.02
FLTHBL125	125	139.7	280	29	8	22	235	13.45
FLTHBL150	150	165.1	305	29	12	22	260	15.77
FLTHBL200	200	219.1	370	32	12	22	325	26.20



# METAL FITTINGS

## FLANGES

Code	Pipe Dimensions		Flange Dimensions					Number Holes	Drilling		Approx Weight
	NB	OD	D	T	A	B	E		N	H	
FLSCTE015	15	21.3	95	6	10	33	38	4	14	67	0.37
FLSCTE020	20	26.9	100	6	11	38	44	4	14	73	0.40
FLSCTE025	25	33.7	115	7	11	48	52	4	14	83	0.65
FLSCTE032	32	42.4	120	8	11	56	58	4	14	87	0.74
FLSCTE040	40	48.3	135	9	13	62	70	4	14	98	1.02
FLSCTE050	50	60.3	150	10	13	75	79	4	18	114	1.36
FLSCTE065	65	76.1	165	10	16	90	93	4	18	127	1.57
FLSCTE080	80	88.9	185	11	16	106	112	4	18	146	2.35
FLSCTE100	100	114.3	215	13	19	133	140	8	18	178	3.45
FLSCTE125	125	139.7	255	14	19	160	171	8	18	210	5.03
FLSCTE150	150	165.1	280	17	19	186	191	8	22	235	6.51

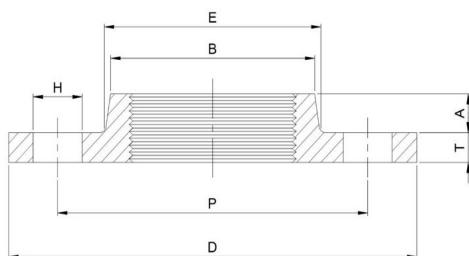


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## METAL FITTINGS

### FLANGES

Galvanised Threaded BSP Flat Face Flange AS2129 (Table E)												
Code	Pipe Dimensions		Flange Dimensions					Number Holes	Drilling		Approx Weight	
	NB	OD	D	T	A	B	E		N	H	P	
FLSCTEG015	15	21.3	95	6	10	33	38	4	14	67	0.37	
FLSCTEG020	20	26.9	100	6	11	38	44	4	14	73	0.40	
FLSCTEG025	25	33.7	115	7	11	48	52	4	14	83	0.65	
FLSCTEG032	32	42.4	120	8	11	56	58	4	14	87	0.74	
FLSCTEG040	40	48.3	135	9	13	62	70	4	14	98	1.02	
FLSCTEG050	50	60.3	150	10	13	75	79	4	18	114	1.36	
FLSCTEG065	65	76.1	165	10	16	90	93	4	18	127	1.57	
FLSCTEG080	80	88.9	185	11	16	106	112	4	18	146	2.35	
FLSCTEG100	100	114.3	215	13	19	133	140	8	18	178	3.45	
FLSCTEG125	125	139.7	255	14	19	160	171	8	18	210	5.03	
FLSCTEG150	150	165.1	280	17	19	186	191	8	22	235	6.51	

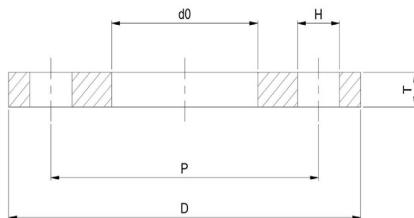


# METAL FITTINGS

## FLANGES

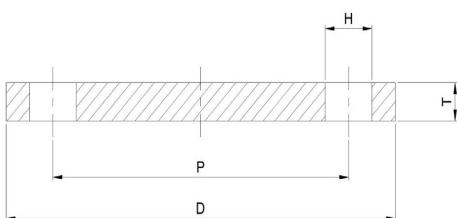
**Slip On Plate Flange AS/NZS4087 PN16 fig. B7**

Code	Pipe Dimensions		Flange Dimensions			Number Holes	Drilling		Approx Weight
	NB	OD	D	dO	T		H	P	
FLAS4087100P	100	114.3	215	116.5	13	4	18	178	2.64
FLAS4087150P	150	168.3	280	172.0	13	8	18	235	3.94
FLAS4087200P	200	219.1	335	222.1	19	8	18	292	7.09
FLAS4087250P	250	273.0	405	275.5	19	8	22	356	9.30
FLAS4087300P	300	323.9	455	326.8	23	12	22	406	13.67
FLAS4087350P	350	355.6	525	358.6	30	12	26	470	25.70
FLAS4087375P 411 ID	375	406.4	550	410.4	30	12	26	495	24.30
FLAS4087400P	400	406.4	580	410.4	30	12	26	521	30.70
FLAS4087450P	450	457.2	640	461.2	30	12	26	584	35.30
FLAS4087500P	500	508.0	705	512.0	38	12	26	641	54.14
FLAS4087600P	600	609.6	825	613.6	48	16	30	756	87.14



**Blind Flange AS/NZS4087 PN16 fig. B7**

Code	Pipe Dimensions		Flange Dimensions		Number Holes	Drilling		Approx Weight
	NB	OD	D	T		H	P	
FLAS4087BL100	100	114.3	215	13	4	18	178	3.60
FLAS4087BL150	150	168.3	280	13	8	18	235	6.10
FLAS4087BL200	200	219.1	335	19	8	18	292	13.00
FLAS4087BL250	250	273.0	405	19	8	22	356	18.90
FLAS4087BL300	300	323.9	455	23	12	22	406	29.10
FLAS4087BL375	375	406.4	550	30	12	26	495	54.60
FLAS4087BL450	450	457.2	640	30	12	26	584	76.10
FLAS4087BL500	500	508.0	705	38	16	26	641	114.00
FLAS4087BL600	600	609.6	825	48	16	30	756	198.00



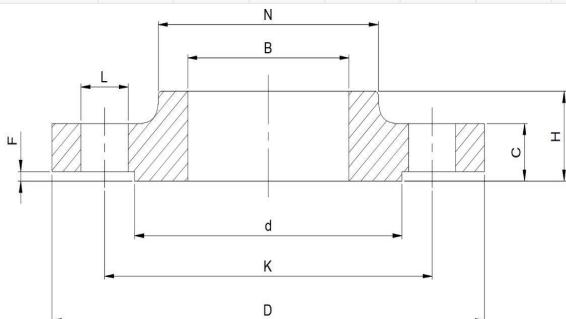
**THE SMARTER CHOICE.**

## METAL FITTINGS

### FLANGES

**PN16 Forged Slip On RF Flange EN1092-1 Type 12 A105N**

Code	Pipe Dimensions		Flange Dimensions					Raised Face		Number Holes	Drilling		Approx Weight
	NB	OD	D	B	C	N	H	d	F	N	L	K	
FL16SO015	15	21.3	95	22.0	16	35	22	45	2	4	14	65	0.66
FL16SO020	20	26.9	105	27.5	18	45	26	58	2	4	14	75	0.95
FL16SO025	25	33.7	115	34.5	18	52	28	68	2	4	14	85	1.14
FL16SO032	32	42.4	140	43.5	18	60	30	78	2	4	18	100	1.69
FL16SO040	40	48.3	150	49.5	18	70	32	88	3	4	18	110	1.86
FL16SO050	50	60.3	165	61.5	18	84	28	102	3	4	18	125	2.53
FL16SO065	65	76.1	185	77.5	18	104	32	122	3	8	18	145	3.06
FL16SO080	80	88.9	200	90.5	20	118	34	138	3	8	18	160	3.70
FL16SO100	100	114.3	220	116.0	20	140	40	158	3	8	18	180	4.62
FL16SO125	125	139.7	250	141.5	22	168	44	188	3	8	18	210	6.30
FL16SO150	150	168.3	285	170.5	22	195	44	212	3	8	22	250	7.75
FL16SO200	200	219.1	340	221.5	24	246	44	268	3	12	22	295	11.30
FL16SO250	250	273.0	405	276.5	26	298	46	320	3	12	26	355	15.60
FL16SO300	300	323.9	460	327.5	28	350	46	378	4	12	26	410	22.00
FL16SO350	350	355.6	520	359.0	30	400	57	438	4	16	26	470	31.20

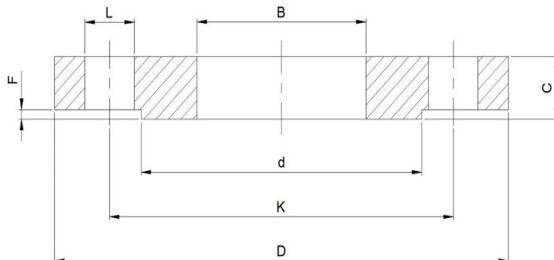


# METAL FITTINGS

## FLANGES

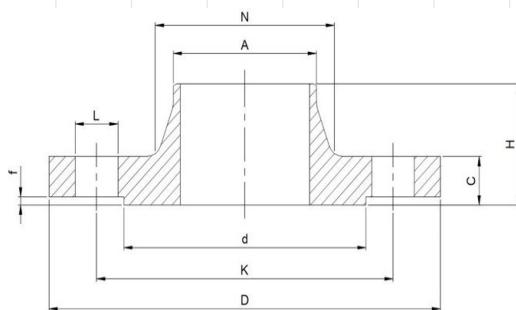
### PN16 Slip On RF Flange EN1092-1 Type 01 A105N

Code	Pipe Dimensions		Flange Dimensions			Raised Face		Number Holes	Drilling		Approx Weight
	NB	OD	D	B	C	d	F		N	L	
FL16SO040P	40	48.3	150	49.5	18	88	3	4	18	110	1.60
FL16SO080P	80	88.9	200	90.5	20	138	3	8	18	160	3.30
FL16SO100P	100	114.3	220	116.0	22	158	3	8	18	180	4.06
FL16SO125P	125	139.7	250	141.5	22	188	3	8	18	210	5.00
FL16SO200P	200	219.1	340	221.5	26	268	3	12	22	295	
FL16SO250P	250	273.0	405	276.5	29	320	3	12	26	355	12.00



### PN16 Weld Neck RF Flange EN1092-1 Type 11 A105N

Code	Pipe Dimensions		Flange Dimensions		Raised Face		Neck			Number Holes	Drilling		Approx Weight
	NB	OD	D	C	d	f	N	A	H		N	L	K
FL16WN025	25	33.7	115	18	68	2	46	33.7	40	4	14	85	1.14
FL16WN032	32	42.4	140	18	78	2	56	42.4	42	4	18	100	1.69
FL16WN040	40	48.3	150	18	88	3	64	48.3	45	4	18	110	1.86
FL16WN050	50	60.3	165	18	102	3	74	60.3	45	4	18	125	2.53
FL16WN065	65	76.1	185	18	122	3	92	76.1	45	8	18	145	3.06
FL16WN080	80	88.9	200	20	138	3	105	88.9	50	8	18	160	3.70
FL16WN100	100	114.3	220	20	158	3	131	114.3	52	8	18	180	4.62
FL16WN125	125	139.7	250	22	188	3	156	139.7	55	8	18	210	6.30
FL16WN150	150	168.3	285	22	212	3	184	168.3	55	8	22	250	7.75
FL16WN200	200	219.1	340	24	268	3	235	219.1	62	12	22	295	11.30



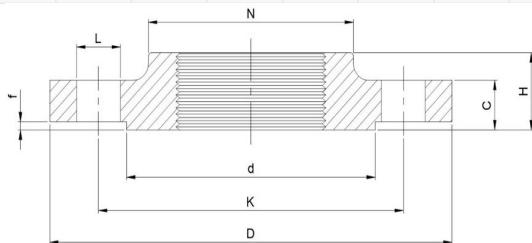
**THE SMARTER CHOICE.**

## METAL FITTINGS

### FLANGES

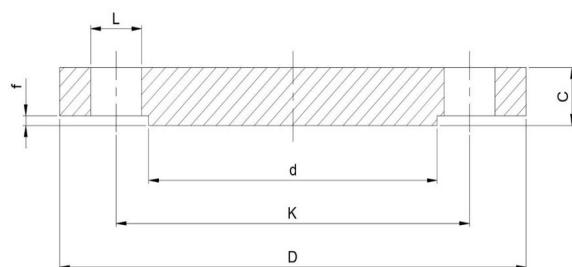
**PN16 Galvanised Threaded BSP Flange EN 1092-1 Type 13 A105N**

Code	Pipe Dimensions		Flange Dimensions				Raised Face		Number Holes	Drilling		Approx Weight
	NB	OD	D	C	N	H	d	F		N	L	
FLSC16G040	40	48.3	150	18	70	32	88	3	4	18	110	1.78
FLSC16G050	50	60.3	165	18	84	28	102	3	4	18	125	2.43
FLSC16G065	65	76.1	185	18	104	32	122	3	8	18	145	3.18
FLSC16G080	80	88.9	200	20	118	34	138	3	8	18	160	4.12
FLSC16G100	100	114.3	220	20	140	40	158	3	8	18	180	4.62



**PN16 Blank Flange EN 1092-1 Type 05 A105N**

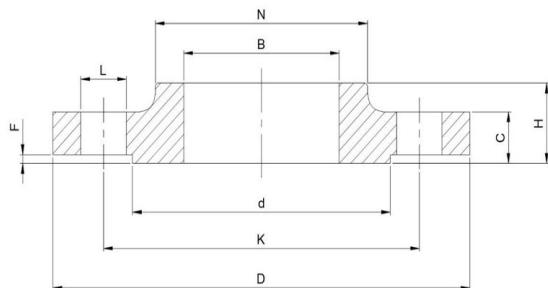
Code	Pipe Dimensions		Flange Dimensions				Raised Face		Number Holes	Drilling		Approx Weight
	NB	OD	D	C	d	F	N	L		N	L	
FL16BL025	25	33.7	115	18	68	2	4	14	85	1.20		
FL16BL032	32	42.4	140	18	78	2	4	18	100	1.80		
FL16BL040	40	48.3	150	18	88	3	4	18	110	2.10		
FL16BL050	50	60.3	165	18	102	3	4	18	125	2.90		
FL16BL065	65	76.1	185	18	122	3	8	18	145	3.60		
FL16BL080	80	88.9	200	20	138	3	8	18	160	4.60		
FL16BL100	100	114.3	220	20	158	3	8	18	180	5.60		
FL16BL150	150	168.3	285	22	212	3	8	22	250	10.50		
FL16BL200	200	219.1	340	24	268	3	12	22	295	16.00		
FL16BL250	250	273.0	405	26	320	3	12	26	355	25.00		
FL16BL300	300	323.9	460	28	378	4	12	26	410			



# METAL FITTINGS

## FLANGES

PN40 Forged Slip On RF Flange EN1092-1 Type 12 A105N													
Code	Pipe Dimensions		Flange Dimensions					Raised Face		Number Holes	Drilling		Approx Weight
	NB	OD	D	B	C	N	H	d	F	N	L	K	
FL40SO025	25	33.7	115	34.5	18	52	28	68	2	4	14	85	1.29
FL40SO032	32	42.4	140	43.5	18	60	30	78	2	4	18	100	1.88
FL40SO040	40	48.3	150	49.5	18	70	32	88	3	4	18	110	2.33
FL40SO050	50	60.3	165	61.5	20	84	34	102	3	4	18	125	2.82
FL40SO065	65	76.1	185	77.5	22	104	38	122	3	8	18	145	3.74
FL40SO080	80	88.9	200	90.5	24	118	40	138	3	8	18	160	4.75
FL40SO100	100	114.3	235	116	24	145	44	162	3	8	22	190	6.52
FL40SO150	150	168.3	300	170.5	28	200	52	218	3	8	26	250	11.80
FL40SO200	200	219.1	375	221.5	34	260	52	285	3	12	30	320	21.50



## METAL FITTINGS

### ROLL GROOVE FITTINGS

Grooved piping system is reliable and faster to install than welding, threading or flanging. This results in the lowest possible installed cost.

It can be adopted to suit standard pipe with cut grooves or standard and light wall pipe with rolled grooves.

#### FITTINGS

Ductile Iron conforming to ASTM A-536 Grade 65-45-12.

#### COATINGS

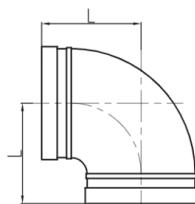
Hot Dipped Zinc galvanization. Painted.

#### BOLTS AND NUTS

Black or Zinc Plated Oval Neck bolts and heavy hexagon nuts at ASTM A-183 with a maximum tensile strength of 110,000PSI.

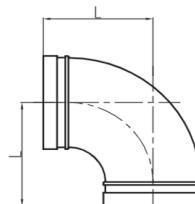
#### GASKETS

Elastomers with properties as designated by ASTM D-2000.



#### Roll Groove Short Radius 90° Elbow

Code Painted	Code Galvanised	NB (mm)	L	Approx Weight
RGE050S	RGEG050S	50	70	0.62
RGE065S	RGEG065S	65	76	1.00
RGE080S	RGEG080S	80	85.5	1.39
RGE100S	RGEG100S	100	101	1.95
RGE150S	RGEG150S	150	140	4.90
RGE200S	RGEG200S	200	165	7.70



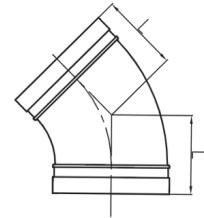
#### Roll Groove Long Radius 90° Elbow

Code Painted	Code Galvanised	NB (mm)	L	Approx Weight
	RGELG025S	25	57	0.24
RGEL032S	RGELG032S	32	70	0.41
RGEL040S	RGELG040S	40	70	0.48
RGEL050S	RGELG050S	50	82.5	0.69
RGEL065S	RGELG065S	65	95	1.18
RGEL080S	RGELG080S	80	108	1.69
RGEL100S	RGELG100S	100	127	2.71
RGEL125S		125	140	4.09
RGEL150S	RGELG150S	150	165	5.89
RGEL200S	RGELG200S	200	197	10.43
RGEL250S	RGELG250S	250	229	24.58
	RGELG300S	300	254	35.52

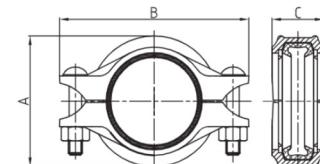
# METAL FITTINGS

## ROLL GROOVE FITTINGS

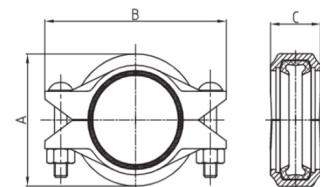
Roll Groove 45° Elbow				
Code Painted	Code Galvanised	NB (mm)	L	Appro Weight
RGE45050S	RGE45G050S	50	51	0.70
RGE45065S	RGE45G065S	65	57	0.87
RGE45080S	RGE45G080S	80	63.5	1.24
RGE45100S	RGE45G100S	100	76	1.92
RGE45125S	RGE45G125S	125	82.5	2.90
RGE45150S	RGE45G150S	150	89	3.97
RGE45200S	RGE45G200S	200	108	6.82
	RGE45G250S	250	120.5	14.76



Roll Groove Angle Rigid Coupling						
Code Painted	Code Galvanised	NB (mm)	A	B	C	Approx Weight
RGCZA032S	RGCZAG032S	32	66	109.5	45	0.57
RGCZA040S	RGCZAG040S	40	72	115	45	0.60
RGCZA050S	RGCZAG050S	50	85	131	45	0.72
RGCZA065S	RGCZAG065S	65	101	147	45	0.89
RGCZA080S	RGCZAG080S	80	115	170	46	0.98
RGCZA100S	RGCZAG100S	100	146	200	52	1.47
RGCZA125S	RGCZAG125S	125	170	238	52	2.01
RGCZA150S	RGCZAG150S	150	198	266	52	2.38
RGCZA200S	RGCZAG200S	200	260	346	62	5.74

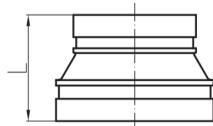


Roll Groove Flexible Coupling						
Code Painted	Code Galvanised	NB (mm)	A	B	C	Approx Weight
RGCF025S	RGCFG025S	25	55	92	42	0.45
RGCF032S	RGCFG032S	32	65	104	44	0.56
RGCF040S	RGCFG040S	40	70	110	44	0.60
RGCF050S	RGCFG050S	50	83	125	44	0.65
RGCF065S	RGCFG065S	65	100	145	45	0.86
RGCF080S	RGCFG080S	80	114	160	45	1.21
RGCF100S	RGCFG100S	100	145	198	50	1.75
RGCF125S	RGCFG125S	125	169	230	52	2.52
RGCF150S	RGCFG150S	150	196	260	52	2.65
RGCF200S	RGCFG200S	200	258	342	60	5.80
RGCF250S	RGCFG250S	250	337	406	65	10.79
RGCF300S	RGCFG300S	300	378	465	65	10.80



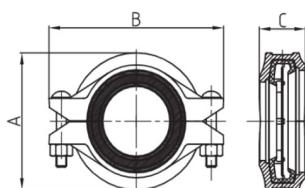
## METAL FITTINGS

### ROLL GROOVE FITTINGS



**Roll Groove Concentric Reducer**

Code Painted	Code Galvanised	NB (mm)	L	Approx Weight
	RGRCG065040S	65 x 40	64	0.48
RGRC065050S	RGRCG065050S	65 x 50	64	0.49
RGRC080050S	RGRCG080050S	80 x 50	64	0.56
RGRC080065S	RGRCG080065S	80 x 65	64	0.72
RGRC100050S	RGRCG100050S	100 x 50	76	0.84
RGRC100065S	RGRCG100065S	100 x 65	76	0.94
RGRC100080S	RGRCG100080S	100 x 80	76	1.03
RGRC125100S		125 x 100	89	1.38
	RGRCG150050S	150 x 50	102	2.05
	RGRCG150065S	150 x 65	102	1.99
	RGRCG150080S	150 x 80	102	1.85
RGRC150100S	RGRCG150100S	150 x 100	102	2.08
RGRC150125S		150 x 125	102	2.12
RGRC200100S	RGRCG200100S	200 x 100	127	4.90
RGRC200150S	RGRCG200150S	200 x 150	127	3.79



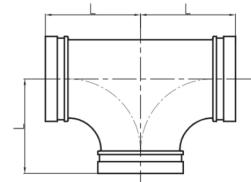
**Roll Groove Reducing Flexible Coupling**

Code Painted	Code Galvanised	NB (mm)	A	B	C	Approx Weight
RGCR065050S	RGCRG065050S	65 x 50	100	138	45	0.96
RGCR080050S	RGCRG080050S	80 x 50	115	168	46	1.62
RGCR080065S	RGCRG080065S	80 x 65	115	172	46	1.53
RGCR100050S	RGCRG100050S	100 x 50	144	198	50	2.27
RGCR100065S	RGCRG100065S	100 x 65	144	202	50	2.15
RGCR100080S	RGCRG100080S	100 x 80	148	198	50	3.40
RGCR150100S	RGCRG150100S	150 x 100	197	260	51	3.77
RGCR200150S	RGCRG200150S	200 x 150	257	335	60	6.22

# METAL FITTINGS

## ROLL GROOVE FITTINGS

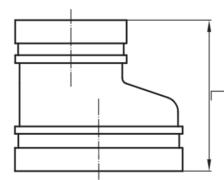
Roll Groove Equal Tee				
Code Painted	Code Galvanised	NB (mm)	L	Approx Weight
	RGTLG040S	40	70	0.72
	RGTLG050S	50	82.5	0.99
RGTL065S	RGTLG065S	65	95	1.73
RGTL080S	RGTLG080S	80	108	2.41
RGTL100S	RGTLG100S	100	127	3.87
RGTL125S		125	140	5.97
RGTL150S	RGTLG150S	150	165	7.81
RGTL200S	RGTLG200S	200	197	15.54
	RGTLG250S	250	229	34.09



Roll Groove Cap				
Code Painted	Code Galvanised	NB (mm)	L	Approx Weight
RGCA040S		40	23.5	0.16
RGCA050S	RGCAG050S	50	23.5	0.22
RGCA065S	RGCAG065S	65	24.5	0.34
RGCA080S	RGCAG080S	80	24	0.50
RGCA100S	RGCAG100S	100	27	0.78
RGCA125S		125	25.5	1.70
RGCA150S	RGCAG150S	150	27	1.60
RGCA200S	RGCAG200S	200	30	3.71
RGCA250S		250	32	6.98
RGCA300S		300	32	15.48



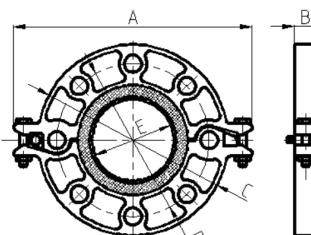
Roll Groove Eccentric Reducer				
Code Painted	Code Galvanised	NB (mm)	L	Approx Weight
RGRE080050S		80 x 50	89	1.00
RGRE080065S	RGREG080065S	80 x 65	89	1.00
RGRE100050S		100 x 50	102	1.30
RGRE100065S	RGREG100065S	100 x 65	102	1.30
RGRE100080S		100 x 80	102	1.60
RGRE150080S		150 x 80	140	3.50
RGRE150100S		150 x 100	140	2.52



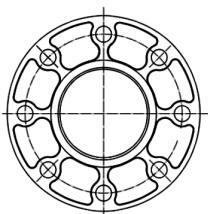
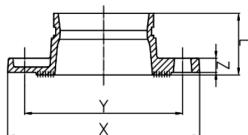
**THE SMARTER CHOICE.**

## METAL FITTINGS

### ROLL GROOVE FITTINGS



Roll Groove Flange - AS2129 Table E							
Code Painted	Code Galvanised	NB (mm)	Flange Dimensions				
			A	B	C	D	E
RGFG050S	RGFG050S	50	211	18.5	150	114	57.5
RGF080S	RGFG080S	80	241	18.5	185	146	85.8
RGF100S	RGFG100S	100	270	18.5	216	178	110.5
RGF150S		150	346	21.5	280	235	160.8
RGF200S		200	408	24	335	292	214.9
							5.67



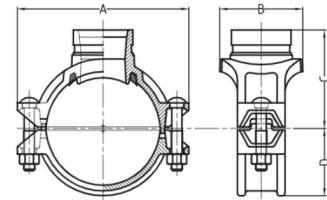
Roll Groove Flange Adaptor - AS2129 Tab. E							
Code Painted	Code Galvanised	NB (mm)	Flange Dimensions				Approx Weight
			L	X	Y	Z	
	RGFAG050S	50	65	152	114	16	
RGFA065S	RGFAG065S	65	70	165	127	16	1.73
RGFA080S	RGFAG080S	80	70	184	146	16	2.07
RGFA100S	RGFAG100S	100	70	216	178	16	3.19
RGFA150S	RGFAG150S	150	70	280	235	18	5.05
	RGFAG200S	200	102	337	292	19	8.50



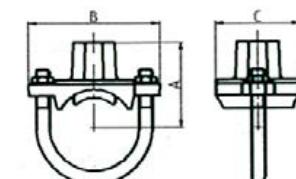
# METAL FITTINGS

## ROLL GROOVE FITTINGS

Roll Groove Mechanical Tee - Roll Grooved Outlet							
Code Painted	Code Galvanised	NB (mm)	Dimensions				Approx Weight
			A	B	C	D	
RGTMGR050040S		50 x 40	116	76	69.5	39	
RGTMGR100065S	RGTMGGR100065S	100 x 65	188	104.5	102	70	1.54
RGTMGR100080S		100 x 80	188	128	102	70	2.41
	RGTMGGR150050S	150 x 50	244	112.5	127	97.5	2.40
RGTMGR150065S	RGTMGGR150065S	150 x 65	244	112.5	130	97.5	2.49
RGTMGR150080S	RGTMGGR150080S	150 x 80	244	132	130	97.5	2.70
	RGTMGGR150100S	150 x 100	244	154	135	97.5	3.13
	RGTMGGR200065S	200 x 65	320	118	158	125	3.74

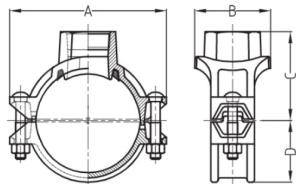


Roll Groove Mechanical U-Bolt Tee - BSP Outlet						
Code Painted	Code Galvanised	NB (mm)	Dimensions			Approx Weight
			A	B	C	
	RGTMS032015S	32 x 15	54.4	88.9	57.2	0.40
RGTMS032025S	RGTMS032025S	32 x 25	57.7	88.9	57.2	0.48
RGTMS040015S	RGTMS040015S	40 x 15	57.7	88.9	57.2	0.39
RGTMS040020S	RGTMS040020S	40 x 20	57.7	88.9	57.2	0.42
	RGTMS040025S	40 x 25	60.8	88.9	57.2	0.47
	RGTMS050015S	50 x 15	63.3	95.3	57.2	0.40
	RGTMS050020S	50 x 20	63.3	95.3	57.2	0.43
	RGTMS050025S	50 x 25	66.6	95.3	57.2	0.48
	RGTMS050032S	50 x 32	66.6	119.9	76.2	0.40
	RGTMS065015S	65 x 15	69.9	108	57.2	0.43
	RGTMS065020S	65 x 20	69.9	108	57.2	0.46



## METAL FITTINGS

### ROLL GROOVE FITTINGS



**Roll Groove Mechanical Tee Female BSP Outlet**

Code Painted	Code Galvanised	NB (mm)	Dimensions				Approx Weight
			A	B	C	D	
	RGTMG025015S	25 x 15	86	46	26	24.5	0.26
	RGTMG040025S	40 x 25	101.5	57	56	32.5	0.52
	RGTMG050020S	50 x 20	116	68	60	39	0.64
RGTM050025S	RGTMG050025S	50 x 25	116	68	60	39	0.72
RGTM050032S	RGTMG050032S	50 x 32	116	76	65	39	0.83
RGTM050040S	RGTMG050040S	50 x 40	116	76	65	39	0.85
	RGTMG065020S	65 x 20	137	71	68	49.5	1.12
RGTM065025S	RGTMG065025S	65 x 25	137	71	75	49.5	1.12
RGTM065032S	RGTMG065032S	65 x 32	137	84.5	75	49.5	1.20
RGTM065040S	RGTMG065040S	65 x 40	137	84.5	75	49.5	1.25
	RGTMG080020S	80 x 20	152	72.5	71.5	56.5	1.02
RGTM080025S	RGTMG080025S	80 x 25	152	72.5	80	56.5	1.05
RGTM080032S	RGTMG080032S	80 x 32	152	85.5	80	56.5	1.13
RGTM080040S	RGTMG080040S	80 x 40	152	85.5	80	56.5	1.14
RGTM080050S	RGTMG080050S	80 x 50	152	98	80	56.5	1.31
RGTM100025S	RGTMG100025S	100 x 25	188	78.5	93	70	1.24
RGTM100032S	RGTMG100032S	100 x 32	188	89	95	70	1.32
RGTM100040S	RGTMG100040S	100 x 40	188	89	97	70	1.34
RGTM100050S	RGTMG100050S	100 x 50	188	104.5	100	70	1.44
RGTM100065S	RGTMG100065S	100 x 65	188	104.5	102	70	1.70
RGTM100080S	RGTMG100080S	100 x 80	188	128	102	70	1.70
RGTM125050S		125 x 50	221.5	95	112	84	2.63
RGTM150040S	RGTMG150040S	150 x 40	244	93	118	97.5	2.29
RGTM150050S	RGTMG150050S	150 x 50	244	112.5	128.5	97.5	2.46
RGTM150065S	RGTMG150065S	150 x 65	244	112.5	128.5	97.5	3.10
RGTM150080S	RGTMG150080S	150 x 80	244	132	128.5	97.5	2.90
RGTM150100S		150 x 100	244	154	135	97.5	3.60
RGTM200050S	RGTMG200050	200 x 50	320	117	160	125	3.82

# METAL FITTINGS

## PIPE HANGERS

Pipe Saddle - Zinc				
Code	NB (mm)	Pipe OD	Strap Size	Approx Weight
HASAZ/015	15	21.3	20 x 0.8	0.01
HASAZ/020	20	26.9	20 x 0.8	0.01
HASAZ/025	25	33.7	20 x 0.8	0.02
HASAZ/032	32	42.4	20 x 0.8	0.02
HASAZ/040	40	48.3	20 x 0.8	0.02
HASAZ/050	50	60.3	20 x 0.8	
HASAZ/065	65	76.1	30 x 0.8	0.11



Pipe Saddle - Galvanised				
Code	NB (mm)	Pipe OD	Strap Size	Approx Weight
HASAG/015XL	15	21.3	25 x 1.8	
HASAG/020XL	20	26.9	25 x 1.8	
HASAG/025XL	25	33.7	25 x 1.8	0.05
HASAG/025L	25	33.7	25 x 3.0	
HASAG/032XL	32	42.4	25 x 1.8	0.06
HASAG/032L	32	42.4	25 x 3.0	
HASAG/040XL	40	48.3	25 x 1.8	0.06
HASAG/040L	40	48.3	25 x 3.0	
HASAG/050XL	50	60.3	25 x 2.3	0.09
HASAG/050L	50	60.3	25 x 3.0	
HASAG/050M	50	60.3	40 x 5.0	0.36
HASAG/065XL	65	76.1	25 x 2.3	
HASAG/065M	65	76.1	40 x 5.0	0.42
HASAG/080XL	80	88.9	25 x 2.3	
HASAG/080M	80	88.9	40 x 5.0	0.44
HASAG/100XL	100	114.3	25 x 2.3	
HASAG/100M	100	114.3	40 x 5.0	0.68



**THE SMARTER CHOICE.**

## METAL FITTINGS

### PIPE HANGERS



Munzing Ring Zinc					
Code	NB (mm)	Pipe OD	Strap Size	Boss	Approx Weight
HAMR015ZWB	15	21.3	25 x 2.0	M10	0.10
HAMR020ZWB	20	26.9	25 x 2.0	M10	0.11
HAMR025ZWB	25	33.7	25 x 2.0	M10	0.12
HAMR032ZWB	32	42.4	25 x 2.0	M10	0.12
HAMR040ZWB	40	48.3	25 x 2.0	M10	0.13
HAMR050ZWB	50	60.3	25 x 2.5	M10	0.17
HAMR065ZWB	65	76.1	25 x 2.5	M10	0.20
HAMR065ZWB12	65	76.1	25 x 2.5	M12	
HAMR080ZWB	80	88.9	25 x 2.5	M10	0.22
HAMR080ZWB12	80	88.9	25 x 2.5	M12	
HAMR100ZWB	100	114.3	25 x 3.0	M10	0.34
HAMR100ZWB12	100	114.3	25 x 3.0	M12	0.28
HAMR150ZWB	150	165.1	25 x 3.0	M10	0.40
HAMR150ZWB12	150	165.1	25 x 3.0	M12	



Munzing Ring Galvanised					
Code	NB (mm)	Pipe OD	Strap Size	Boss	Approx Weight
HAMR015GWB	15	21.3	25 x 2.0	M10	0.10
HAMR020GWB	20	26.9	25 x 2.0	M10	0.11
HAMR025GWB	25	33.7	25 x 2.0	M10	0.12
HAMR032GWB	32	42.4	25 x 2.0	M10	0.13
HAMR040GWB	40	48.3	25 x 2.0	M10	0.14
HAMR050GWB	50	60.3	25 x 2.5	M10	0.18
HAMR065GWB	65	76.1	25 x 2.5	M10	0.22
HAMR065GWB12	65	76.1	25 x 2.5	M12	
HAMR080GWB	80	88.9	25 x 2.5	M10	0.23
HAMR080GWB12	80	88.9	25 x 2.5	M12	
HAMR100GWB	100	114.3	25 x 3.0	M10	0.34
HAMR100GWB12	100	114.3	25 x 3.0	M12	
HAMR150GWB12	150	165.1	25 x 5.0	M12	

# METAL FITTINGS

## PIPE HANGERS

### Munzing Ring Insulated

Code	Metric Size	Pipe OD
HAMR015IN	15	21.3
HAMR020IN	20	26.9
HAMR025IN	25	33.7
HAMR032IN	32	42.4
HAMR040IN	40	48.3
HAMR050IN	50	60.3
HAMR065IN	65	76.1
HAMR080IN	80	88.9
HAMR100IN	100	114.3



### Base Plates

Code	Boss	Orientation	Finish	Approx Weight
HABP1012HGWB	M10 & M12	Horizontal	Galv	0.09
HABP1012VGWB	M10 & M12	Vertical	Galv	0.09
HABP1012VZWB	M10 & M12	Vertical	Zinc	0.09
HABP1045GWB	M10	45 Deg	Galv	0.05
HABP1045ZWB	M10	45 Deg	Zinc	0.10
HABP10GWB	M10	Flat	Galv	0.05
HABP10ZWB	M10	Flat	Zinc	0.05
HABP1245ZWB	M12	45 Deg	Zinc	0.00
HABP12ZWB	M12	Flat	Zinc	0.05



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## **METAL FITTINGS**

### **PIPE HANGERS**



Two Piece Pipe Clamp				
Code	NB (mm)	Pipe OD	Strap Size	Approx Weight
HASBG/015	15	21.3	25 x 3.0	0.10
HASBG/020	20	26.9	25 x 3.0	0.15
HASBG/025	25	33.7	25 x 3.0	0.14
HASBG/032	32	42.4	25 x 3.0	0.18
HASBG/040	40	48.3	25 x 3.0	0.17
HASBG/050	50	60.3	40 x 6.0	0.74
HASBG/065	65	76.1	40 x 6.0	0.84
HASBG/080	80	88.9	40 x 6.0	0.93
HASBG/100	100	114.3	40 x 6.0	1.01
HASBG/125	125	139.7	40 x 6.0	0.36
HASBG/150	150	165.1	40 x 6.0	1.33
HASBG/200	200	219.1	40 x 6.0	1.65
HASBG/250	250	273.1	40 x 6.0	2.01
HASBG/300	300	323.9	75 x 10.0	7.50

# METAL FITTINGS

## PIPE HANGERS

### Two Piece Pipe Clamp with Yoke - Galvanised

Code	NB (mm)	Pipe OD	Strap Size	Approx Weight
HAYCG08025	25	33.7	25 x 3.0	0.21
HAYCG08032	32	42.4	25 x 3.0	0.23
HAYCG08040	40	48.3	25 x 3.0	0.24
HAYCG08050	50	60.3	25 x 3.0	0.27
HAYCG08065	65	76.1	25 x 3.0	0.30
HAYCG08080	80	88.9	25 x 3.0	0.32
HAYCG08100	100	114.3	25 x 3.0	0.39
HAYCG08125	125	139.7	25 x 3.0	0.42
HAYCG08150	150	165.1	25 x 3.0	0.48
HAYCG18050	50	60.3	40 x 6.0	0.99
HAYCG18065	65	76.1	40 x 6.0	1.09
HAYCG18080	80	88.9	40 x 6.0	1.15
HAYCG18100	100	114.3	40 x 6.0	1.31
HAYCG18125	125	139.7	40 x 6.0	1.42
HAYCG18150	150	165.1	40 x 6.0	1.58
HAYCG18200	200	219.1	40 x 6.0	1.88
HAYCG18250	250	273.1	40 x 6.0	2.27
HAYCG18300	300	323.9	40 x 6.0	
HAYCG31250	250	273.1	75 x 10.0	7.70
HAYCG31300	300	323.9	75 x 10.0	8.70
HAYCG31350	350	355.6	75 x 10.0	9.30
HAYCG31400	400	406.4	75 x 10.0	10.10



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## METAL FITTINGS

### PIPE HANGERS



U-Bolts - Galvanised				
Code	NB (mm)	Internal Diameter	Thread Size	Approx Weight
HAUBG/010X050	50	60	M10	
HAUBG/010X065	65	76	M10	
HAUBG/010X080	80	89	M10	
HAUBG/010X100	100	115	M10	
HAUBG/010X125	125	140	M10	
HAUBG/012X065	65	76	M12	
HAUBG/012X080	80	89	M12	
HAUBG/012X090	90	102	M12	
HAUBG/012X100	100	115	M12	
HAUBG/012X125	125	140	M12	
HAUBG/012X150	150	168	M12	0.49
HAUBG/012X200	200	219	M12	
HAUBG/016X080	80	89	M16	0.65
HAUBG/016X100	100	115	M16	
HAUBG/016X150	150	168	M16	
HAUBG/016X200	200	219	M16	0.97
HAUBG/020X150	150	168	M20	
HAUBG/010X065	10 x 65	76		0.28



U-Bolts - Zinc				
Code	NB (mm)	Internal Diameter	Thread Size	
HAUBZ/008X020	20	27	M8	
HAUBZ/008X025	25	34	M8	
HAUBZ/008X032	32	43	M8	
HAUBZ/008X040	40	48	M8	
HAUBZ/008X050	50	60	M8	
HAUBZ/010X025	25	34	M10	
HAUBZ/010X040	40	48	M10	
HAUBZ/010X050	50	60	M10	
HAUBZ/010X065	65	76	M10	
HAUBZ/010X080	80	89	M10	
HAUBZ/010X100	100	114	M10	
HAUBZ/012X090	90	102	M12	
HAUBZ/012X100	100	114	M12	
HAUBZ/012X150	150	168	M12	

# RUBBER BELLows

A Rubber bellow is a flexible joint made from heat resisting synthetic elastomers and moulded in a spherical shape with metal floating flanges.

Rubber Bellows (Flexible Rubber Joints) are installed in piping systems to absorb movements in three directions:

1. Axial – the movement of elongation and compression along the centre line
2. Lateral – offset movement from the centre line
3. Angular – offset bending about the centre line

Applications – Air, Compressed Air, Water, Sea Water, Hot Water, Weak Acid.

## Single Sphere Style 10

Single sphere expansion joint style 10 is capable of handling water, warm water, seawater, weak acids, alkalies, etc. The product comes with a wide selection of flange drilling: JIS, DIN, ANSI, BS, and other standard drilling. Style 10 is manufactured with any of the following material: Neoprene, Butyl, Nitrile, EPDM, Hypalon, Natural Rubber, etc. Not only does style 10 give you many choices, it is so strong that it can withstand burst pressure 60 bars for size 5/4" to 8" and 40 bars for sizes 10" to 24".

## Double Sphere Style 20 without Root Ring

The double sphere connector of Style 20 allows greater compression, elongation, and deflection, and it requires little force to cause movement. With this product, you will not have problem installing it, because Style 20 is easy to install and uses floating-flanges. Style 20 is capable of handling water, warm water, seawater, weak acids, alkalies, etc.. The product comes with a wide selection of flange drilling: JIS, DIN, ANSI, BS, and other standard drilling. It is manufactured with any of the following material: Neoprene, Butyl, Nitrile, EPDM, Hypalon, Natural Rubber, etc.

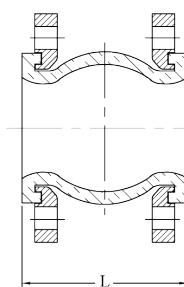
Not only does style 20 give you many choices, it is so strong that it can withstand burst pressure 60kg/cm<sup>2</sup> for size 5/4" to 8" and 40kg/cm<sup>2</sup> for sizes 10" to 12".

## Double Sphere Threaded Unions Style 30 without Root Ring

The double sphere threaded unions style 30 product provides the benefits of superb absorption of vibration, low cost installation, and operation. It is effective for large eccentricity thermal and bending angle. Style 30 is available in BS and ANSI unions. For more information regarding the different flanges used, please refer to the 'Flanges' section.

**Single Sphere Expansion Joint - AS2129 Table E**

Code	NB (mm)	Length (mm)	Allowable Movement (mm)				Operating Condition		
			Axial Compression	Axial Elongation	Transverse Deflection	Angular Deflection	Max Pressure bar	Max Temperature	Vacuum Rating
FLFLEX/032TE	32	95	10	6	10	25	16	80°C	700
FLFLEX/050TE	50	105	10	6	10	25	16	80°C	700
FLFLEX/065TE	65	115	15	8	12	25	16	80°C	700
FLFLEX/080TE	80	135	15	8	12	25	16	80°C	700
FLFLEX/100TE	100	150	20	12	16	15	16	80°C	700
FLFLEX/125TE	125	165	20	12	16	15	16	80°C	700
FLFLEX/150TE	150	180	20	12	16	15	16	80°C	700
FLFLEX/200TE	200	210	20	12	16	15	16	80°C	700
FLFLEX/250TE	250	230	30	14	25	8	16	80°C	700
FLFLEX/300TE	300	230	30	14	25	8	16	80°C	700
FLFLEX/350TE	350	265	30	14	25	8	16	80°C	700

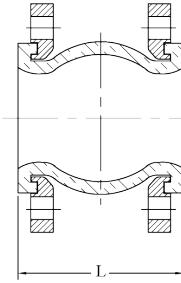


# THE SMARTER CHOICE.

## RUBBER BELLows

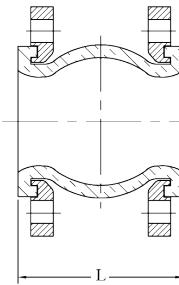
### Single Sphere Expansion Joint - EN1092-1 PN16

Code	NB (mm)	Length (mm)	Allowable Movement (mm)				Operating Condition		
			Axial Compression	Axial Elongation	Transverse Deflection	Angular Deflection	Max Pressure bar	Max Temperature	Vacuum Rating
FLFLEX/050/PN16	50	105	10	6	10	25	16	80°C	700
FLFLEX/065/PN16	65	115	15	8	12	25	16	80°C	700
FLFLEX/080/PN16	80	135	15	8	12	25	16	80°C	700
FLFLEX/100/PN16	100	150	20	12	16	15	16	80°C	700
FLFLEX/125/PN16	125	165	20	12	16	15	16	80°C	700
FLFLEX/150/PN16	150	180	20	12	16	15	16	80°C	700
FLFLEX/200/PN16	200	210	20	12	16	15	16	80°C	700
FLFLEX/250/PN16	250	230	30	14	25	8	16	80°C	700



### Single Sphere Expansion Joint - AS2129 Table E - EN1092-1 PN16

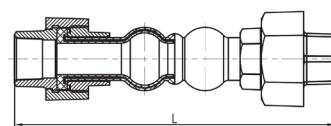
Code	NB (mm)	Length (mm)	Allowable Movement (mm)				Operating Condition		
			Axial Compression	Axial Elongation	Transverse Deflection	Angular Deflection	Max Pressure bar	Max Temperature	Vacuum Rating
FLFLEX/080TE16	80	135	15	8	12	25	16	80°C	700
FLFLEX/100TE16	100	150	20	12	16	15	16	80°C	700
FLFLEX/150TE16	150	180	20	12	16	15	16	80°C	700
FLFLEX/200TE16	200	210	20	12	16	15	16	80°C	700



# RUBBER BELLows

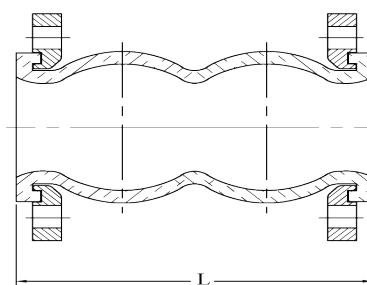
## Double Sphere BSP Threaded Unions

Code	NB (mm)	Length (mm)	Allowable Movement (mm)				Operating Condition		
			Axial Compression	Axial Elongation	Transverse Deflection	Angular Deflection	Max Pressure bar	Max Temperature	Vacuum Rating
FLFLEX/025BSP	25	200	22	6	22	40	16	80	500
FLFLEX/032BSP	32	200	22	6	22	40	16	80	500
FLFLEX/040BSP	40	200	22	6	22	40	16	80	500
FLFLEX/050BSP	50	200	22	6	22	40	16	80	500



## Double Sphere Expansion Joint - AS2129 Table E

Code	NB (mm)	Length (mm)	Allowable Movement (mm)				Operating Condition		
			Axial Compression	Axial Elongation	Transverse Deflection	Angular Deflection	Max Pressure bar	Max Temperature	Vacuum Rating
FLFLEX/080TED	80	175	50	35	40	30	16	80	650
FLFLEX/100TED	100	225	50	35	40	30	16	80	650
FLFLEX/150TED	150	225	60	35	35	15	16	80	650
FLFLEX/200TED	200	325	60	35	35	15	16	80	650
FLFLEX/250TED	250	325	60	35	35	15	16	80	650
FLFLEX/300TED	300	325	60	35	35	15	16	80	650



# THE SMARTER CHOICE.

## METAL VALVES

### GATE VALVES

	Code	Size NB (mm)	MATERIALS		SPECIFICATIONS	
			Part	Material	Thread	BSP
<b>Kitz DZR Gate Valve</b> 	VGASFH015	15	Body	DR Brass	MAX Working Temperature 180°C	16 bar
	VGASFH020	20	Bonnet	DR Brass		
	VGASFH025	25	Wedge	DR Brass		
	VGASFH032	32	Stem	DR Brass		
	VGASFH040	40	Hand Wheel	Ductile Iron		
	VGASFH050	50	Packing	PTFE		
			Threading	BS21 Rp		
<b>A-Gate Brass Gate Valve</b> 	AGVFF/015	15	Body	Brass	MAX Working Temperature 180°C	16 bar
	AGVFF/020	20	Bonnet	Brass		
	AGVFF/025	25	Wedge	Brass		
	AGVFF/032	32	Stem	Brass		
	AGVFF/040	40	Hand Wheel	Ductile Iron		
	AGVFF/050	50	Packing	PTFE		
	AGVFF/065	65	Threading	BS21 Rp		
	AGVFF/080	80				
	AGVFF/100	100				
<b>Stainless Steel Gate Valve</b> 	HSGAVSS/015	15	Stem	316 Stainless Steel	MAX Working Temperature 180°C	14 bar
	HSGAVSS/020	20	Body	CF8M		
	HSGAVSS/025	25	Bonnet	CF8M		
	HSGAVSS/032	32	Wedge	CF8M		
	HSGAVSS/040	40	Wedge	CF8M		
	HSGAVSS/050	50	Gasket	PTFE		
			Hand wheel	Ductile Iron		
			Name Plate	Aluminium Alloy		
			Nut	304 Stainless Steel		
<b>CMO Stainless Steel Knife Gate Valve ANSI 150 Drilling</b> 	CMVA5V2I1/080	80	Body	CF8M	MAX Working Temperature 90°C	5 to 10 Bar depending on size
	CMVA5V2I1/100	100	Gland Packing	Synthetic + PTFE		
	CMVA5V2I1/150	150	Gland	CF8M		
	CMVA5V2I1/200	200	Gate	316 Stainless Steel		
	CMVA5V2I1/250	250	Yoke	Steel		
	CMVA5V2I1/300	300	Hand Wheel	Ductile Iron		
			Stem	304 Stainless Steel		
			Clevis	CF8		
			Seat	EPDM		
<b>CMO Stainless Steel Knife Gate Valve Table E Drilling</b> 	CMVA7V2I1/080	80			Flange ANSI 150 & AS2129 T/E	80-300 NB
	CMVA7V2I1/100	100				
	CMVA7V2I1/125	125				
	CMVA7V2I1/150	150				
	CMVA7V2I1/200	200				
	CMVA7V2I1/250	250				
	CMVA7V2I1/300	300				
Bi Directional, Bonneted, other Knife Gate Valve Types, and Body Materials available on request.						

# METAL VALVES

## GLOBE VALVES

	Code	Size NB (mm)	MATERIALS		SPECIFICATIONS	
			Part	Material		
<b>Kitz Bronze Globe Valve Screwed Bonet</b>	VGASFH015	15	Body	LG2 Gunmetal Bronze	Thread	BSP
	VGASFH020	20		LG2 Gunmetal Bronze	MAX Working Temperature	220°C
	VGASFH025	25		LG2 Gunmetal Bronze	Cold Working Pressure	20 Bar
	VGASFH032	32		LG2 Gunmetal Bronze	Size	15-50 NB
	VGASFH040	40		LG2 Gunmetal Bronze	Applications – For use on Water Oil & Gas, and 125 PSI Saturated Steam	
	VGASFH050	50		CZ121 Brass		
				CZ121 Brass		
				Ductile Iron		
				PTFE		
<b>Kitz Bronze Globe Valve Union Bonnet</b>	VGLBR015	15	Body	LG2 Gunmetal Bronze	Thread	BSP
	VGLBR020	20		LG2 Gunmetal Bronze	MAX Working Temperature	220°C
	VGLBR025	25		LG2 Gunmetal Bronze	Cold Working Pressure	30 Bar
	VGLBR032	32		LG2 Gunmetal Bronze	Size	15-50 NB
	VGLBR040	40		GF PTFE	Applications – For use on Water Oil & Gas, and 150 PSI Saturated Steam	
	VGLBR050	50		CZ121 Brass		
				CZ121 Brass		
				Ductile Iron		
				PTFE		
<b>Stainless Steel Globe Valve</b>	HSGLVSS/015	15	Body	316 Stainless Steel	Thread	BSP
	HSGLVSS/020	20		316 Stainless Steel	MAX Working Temperature	180°C
	HSGLVSS/025	25		316 Stainless Steel	Cold Working Pressure	14 Bar
	HSGLVSS/032	32		316 Stainless Steel	Size	15-50 NB
	HSGLVSS/040	40		316 Stainless Steel		
	HSGLVSS/050	50		PTFE		
				316 Stainless Steel		
				PTFE		
				316 Stainless Steel		
				316 Stainless Steel		
				316 Stainless Steel		
				316 Stainless Steel		
				Aluminium Alloy		
				304 Stainless Steel		
<b>Stainless Steel Needle Valve</b>	VMNV/006	6	Body	316 Stainless Steel	Thread	BSP
	VMNV/008	8		304 Stainless Steel	MAX Working Temperature	230°C
	VMNV/010	10		PTFE	Cold Working Pressure	408 Bar
	VMNV/015	15		316 Stainless Steel	Size	6-25 NB
	VMNV/020	20		304 Stainless Steel		
	VMNV/025	25				

# THE SMARTER CHOICE.

## METAL VALVES

### CHECK VALVES

	Code	Size NB (mm)	MATERIALS		SPECIFICATIONS
			Part	Material	
<b>RUB Brass Swing Check Valve (Metal Seated)</b> 	BVCSM/015	15	Body	Brass	Thread BSP MAX Working Temperature 200°C Cold Working Pressure 12 bar Size 15-80 NB  For horizontal installation. Applications - oil, water.
	BVCSM/020	20	Bonnet	Brass	
	BVCSM/025	25	Hinge Pin Nut	Brass	
	BVCSM/032	32	Clapper	Brass	
	BVCSM/040	40	Seat	Brass or NBR	
	BVCSM/050	50			
	BVCSM/065	65			
	BVCSM/080	80			
<b>RUB Brass Swing Check Valve (NBR Soft Seated)</b> 	BVCS/015	15			Thread BSP MAX Working Temperature 80°C Cold Working Pressure Up to 25 Bar Size 10-100 NB  Suitable for hot/cold water, oils. Applications – Can be fitted in horizontal, vertical or oblique position.
	BVCS/020	20			
	BVCS/025	25			
	BVCS/032	32			
	BVCS/040	40			
	BVCS/050	50			
	BVCS/065	65			
	BVCS/080	80			
<b>Europa Brass Spring Check Valve</b> 	BVEC/010	10	Body	Brass CW 617N	Thread BSP MAX Working Temperature 80°C Cold Working Pressure Up to 25 Bar Size 10-100 NB  Suitable for hot/cold water, oils. Applications – Can be fitted in horizontal, vertical or oblique position.
	BVEC/015	15	Pin	Brass CW614N	
	BVEC/020	20	Plate	304 Stainless Steel	
	BVEC/025	25	Seat	NBR	
	BVEC/032	32	Spring	302 Stainless Steel	
	BVEC/040	40			
	BVEC/050	50			
	BVEC/065	65			
	BVEC/080	80			
	BVEC/100	100			
<b>RUB Brass Spring Check Valve</b> 	BVVC/008	8	Body	Brass CW 617N	Thread BSP MAX Working Temperature 80°C Cold Working Pressure up to 40 Bar Size 8-100 NB  With polymeric resin jumper/plate. Minimum working pressure 0.05 Bar (5 kPa) Suitable for hot/cold water, oils. Applications – Can be fitted in horizontal, vertical or oblique position.
	BVVC/010	10	Plate	Polymeric resin	
	BVVC/015	15	Seat	NBR	
	BVVC/020	20	Spring	Stainless Steel AISI 302	
	BVVC/025	25			
	BVVC/032	32			
	BVVC/040	40			
	BVVC/050	50			
	BVVC/065	65			
	BVVC/080	80			
	BVVC/100	100			
<b>Stainless Steel Swing Check Valve</b> 	HSCVSS/015	15	Body	SS CF8M	Thread BSP MAX Working Temperature 230°C Cold Working Pressure 63 bar Size 15-50 NB  Applications – water, oil, chemicals, corrosive environment and liquids.
	HSCVSS/020	20	Bonnet	SS CF8M	
	HSCVSS/025	25	Hanger Pin	316 Stainless Steel	
	HSCVSS/032	32	Disc	CF8M	
	HSCVSS/040	40	Plug	316 Stainless Steel	
	HSCVSS/050	50	Plug Gasket	PTFE	
<b>Stainless Steel In-line Spring Check Valve</b> 	VMCV/015	15	Body	316 Stainless Steel	Thread BSP MAX Working Temperature 180°C Cold Working Pressure 63 bar Size 15-50 NB  Socket weld available on request. Applications – water, oil, air, gases, chemicals, corrosive environment and liquids.
	VMCV/020	20	Disc	316 Stainless Steel	
	VMCV/025	25	Spring	316 Stainless Steel	
	VMCV/032	32	Spring Cap	316 Stainless Steel	
	VMCV/040	40	Cap	316 Stainless Steel	
	VMCV/050	50	Joint Gasket	PTFE	

# METAL VALVES

CHECK VALVES					
	Code	Size NB (mm)	MATERIALS		SPECIFICATIONS
			Part	Material	
<b>A-Check Wafer Dual Plate Check Valve</b>   ACVCI316= EPDM ACVB316= NBR	ACVCI316/050	50	Body	Cast Iron	Fits Flanges
	ACVCI316/065	65	Spring	316 Stainless Steel	T/E, ANSI 125, PN16
	ACVCI316/080	80	Disc	Ductile Iron/ 316 Stainless Steel	MAX Working Temperature
	ACVCI316/100	100			80°C
	ACVCI316/125	125	Seat	EPDM or NBR 304/316 Stainless Steel	Cold Working Pressure
	ACVCI316/150	150			16 Bar
	ACVCI316/200	200	Shaft		Size
	ACVCI316/250	250		50-400 NB	
	ACVCI316/300	300	Flange Gasket	EPDM or NBR	
	ACVCI316/350	350			
	ACVCI316/400	400			
	ACVB316/050	50			
	ACVB316/065	65			
	ACVB316/080	80			
	ACVB316/100	100			
	ACVB316/125	125			
	ACVB316/150	150			
	ACVB316/200	200			
	ACVB316/250	250			
	ACVB316/300	300			
<b>A-Check Wafer Swing Check Valve</b>  	ACVB/050	50	Body	Cast Iron	Fits Flanges
	ACVB/065	65	Spring	316 Stainless Steel	T/E, ANSI 125, PN16
	ACVB/080	80	Disc	304 Stainless Steel	MAX Working Temperature
	ACVB/100	100			80°C
	ACVB/125	125	Seat	NBR	Cold Working Pressure
	ACVB/150	150			16 Bar
	ACVB/200	200	Shaft	316 Stainless Steel	Size
	ACVB/250	250			50-300 NB
	ACVB/300	300	Flange Gasket	NBR	
<b>A-Check Stainless Steel Wafer Check Dual Plate Valve</b>  	ACVSS/050	50	Body	A351 CF8M	Fits Flanges
	ACVSS/065	65	Spring	316 Stainless Steel	MAX Working Temperature
	ACVSS/080	80	Disc	A351 CF8M	Working Pressure
	ACVSS/100	100			ANSI Class 150
	ACVSS/125	125	Seat	A351 CF8M	
	ACVSS/150	150			
	ACVSS/200	200	Shaft	316 Stainless Steel	
	ACVSS/250	250			
	ACVSS/300	300			
<b>Ball Check Valve</b>  	ACVBC/050	50	Body	Ductile Iron	MAX Working Temperature
	ACVBC/065	65	Cover	Ductile Iron	80°C
	ACVBC/080	80	Ball	Metal + NBR	Cold Working Pressure
	ACVBCF/080	80			16 Bar
	ACVBCF/100	100	Gasket	EPDM	Ends
	ACVBCF/125	125			BSP / AS2129 T/E & D
	ACVBCF/150	150			Size
	ACVBCF/200	200			50-300 NB
	ACVBCF/250	250			
	ACVBCF/300	300			
Application – Irrigation Service.					

\*ACVBC = BSP Threaded  
\*ACVBCF = Flanged

# THE SMARTER CHOICE.

## METAL VALVES

### BALL VALVES

	Code	Size NB (mm)	MATERIALS		SPECIFICATIONS				
			Part	Material	Thread	BSPT			
<b>Stainless Steel Full Bore Ball Valve 3 Piece</b> 	VMBVSS/008	8	Body	316 Stainless Steel	MAX Working Temperature	180°C			
	VMBVSS/010	10		316 Stainless Steel	Cold Working Pressure	69 Bar			
	VMBVSS/015	15		316 Stainless Steel	Size	8-80 NB			
	VMBVSS/020	20		RPTFE	Also available with socket weld ends. Applications – For air, water, hot/cold corrosive fluids in harsh environments.				
	VMBVSS/025	25		PTFE					
	VMBVSS/032	32							
	VMBVSS/040	40							
	VMBVSS/050	50							
	VMBVSS/080	80		Stainless Steel with Locking Device					
<b>Stainless Steel Full Bore Ball Valve 2 Piece</b> 	VMBVSS2/008	8	Body	316 Stainless Steel	Thread	BSPT			
	VMBVSS2/010	10		316 Stainless Steel	MAX Working Temperature	180°C			
	VMBVSS2/015	15		316 Stainless Steel	Cold Working Pressure	69 Bar			
	VMBVSS2/020	20		RPTFE	Size	8-80 NB			
	VMBVSS2/025	25		PTFE	Also available with socket weld ends. Applications – For air, water, hot/cold corrosive fluids in harsh environments.				
	VMBVSS2/032	32							
	VMBVSS2/040	40							
	VMBVSS2/050	50							
	VMBVSS2/080	80		Stainless Steel with Locking Device					
<b>Stainless Steel Full Bore Ball Valve w/ Mounting Pad</b> 	VMBVISO/008	8	Body	316 Stainless Steel	Thread	BSPT			
	VMBVISO/010	10		316 Stainless Steel	MAX Working Temperature	180°C			
	VMBVISO/015	15		316 Stainless Steel	Cold Working Pressure	69 Bar			
	VMBVISO/020	20		RPTFE	Size	8-100 NB			
	VMBVISO/025	25		Live Loaded PTFE	To ISO5211. Also available with socket weld ends. Applications – For air, water, hot/cold corrosive fluids in harsh environments.				
	VMBVISO/032	32							
	VMBVISO/040	40							
	VMBVISO/050	50							
	VMBVISO/080	80		Stainless Steel with Locking Device					
<b>A-Ball Stainless Steel 3 Way Ball Valve, L Port, Female/Female</b> 	ABVSSL/010	10	Body	316 Stainless Steel	Thread	BSPP			
	ABVSSL/015	15		316 Stainless Steel	MAX Working Temperature	180°C			
	ABVSSL/020	20		316 Stainless Steel	Cold Working Pressure	55 Bar			
	ABVSSL/025	25		RPTFE	Size	10-50 NB			
	ABVSSL/032	32		SS	Steam seats available on request.				
	ABVSSL/040	40							
	ABVSSL/050	50							
	ABVSSL/065	65							
	ABVSSL/080	80							
<b>A-Ball Stainless Steel 3 Way Ball Valve, T Port, Female/Female</b> 	ABVSST/008	8	Body	316 Stainless Steel	Thread	BSPT			
	ABVSST/015	15		316 Stainless Steel	MAX Working Temperature	210°C			
	ABVSST/020	20		316 Stainless Steel	Cold Working Pressure	69 Bar			
	ABVSST/025	25		CTFE	Size	8-80 NB			
	ABVSST/032	32		PTFE	Also available with socket weld ends. Applications - For air, water, hot/cold corrosive fluids in harsh environments.				
	ABVSST/040	40							
	ABVSST/050	50							
	ABVSST/080	80							
				Stainless Steel with Locking Device					
<b>A-Ball Heavy Duty Ball Valve with Steam Seats</b> 	ABVSSST/015	15	Body	316 Stainless Steel	Thread	BSPT			
	ABVSSST/020	20		316 Stainless Steel	MAX Working Temperature	210°C			
	ABVSSST/025	25		316 Stainless Steel	Cold Working Pressure	69 Bar			
	ABVSSST/032	32		CTFE	Size	8-80 NB			
	ABVSSST/040	40		PTFE	Also available with socket weld ends. Applications - For air, water, hot/cold corrosive fluids in harsh environments.				
	ABVSSST/050	50		Stainless Steel with Locking Device					

# METAL VALVES

## BALL VALVES

	Code	Size NB (mm)	MATERIALS		SPECIFICATIONS	
			Part	Material		
<b>RUB S.51 Brass Ball Valve Long Pattern Female/Female Lever Handle</b>	BVT201/008	8	Body Seat Retainer Seat Ball Stem Packing Lever	Brass (Nickel Plated)	Thread MAX Working Temperature Cold Working Pressure Size	BSPP MxF & FxF 170°C 30 Bar 8-100 NB
	BVT201/010	10		Brass (Nickel Plated)		
	BVT201/015	15		PTFE		
	BVT201/020	20		Brass (Chromium plated)		
	BVT201/025	25		Brass		
	BVT201/032	32		Viton (Double O Ring)		
	BVT201/040	40		Geomet		
	BVT201/050	50		Coated Steel		
	BVT201/065	65		Geomet		
	BVT201/080	80		Coated Steel		
	BVT201/100	100				
<b>RUB S.51 Brass Ball Valve Long Pattern Male/Female Lever Handle</b>	BVT202/008	8	Body Seat Retainer Seat Ball Stem Packing Lever Retaining Nut	Brass (Nickel Plated)	Thread MAX Working Temperature Cold Working Pressure Size	BSPP MxF & FxF 170°C 30 Bar 8-100 NB
	BVT202/010	10		Brass (Nickel Plated)		
	BVT202/015	15		PTFE		
	BVT202/020	20		Brass (Chromium plated)		
	BVT202/025	25		Brass		
	BVT202/032	32		Viton (Double O Ring)		
	BVT202/040	40		Geomet		
	BVT202/050	50		Coated Steel		
<b>RUB S.51 Brass Ball Valve Long Pattern Female/Female T Handle</b>	BVT207/008	8	Body Seat Retainer Seat Ball Stem Packing	Brass (Nickel Plated)	Thread MAX Working Temperature Cold Working Pressure Size	BSPP MxF & FxF 170°C 30 Bar 8-100 NB
	BVT207/010	10		Brass (Nickel Plated)		
	BVT207/015	15		PTFE		
	BVT207/020	20		Brass (Chromium plated)		
	BVT207/025	25		Brass		
				Viton (Double O Ring)		
<b>RUB S.51 Brass Ball Valve Long Pattern Male/Female T Handle</b>	BVT208/008	8	Body Seat Retainer Seat Ball Stem Packing	Brass (Nickel Plated)	Thread MAX Working Temperature Cold Working Pressure Size	BSPP MxF & FxF 170°C 30 Bar 8-100 NB
	BVT208/010	10		Brass (Nickel Plated)		
	BVT208/015	15		PTFE		
	BVT208/020	20		Brass (Chromium plated)		
	BVT208/025	25		Brass		
				Viton (Double O Ring)		
<b>RUB S.51 Brass Ball Valve Long Pattern Female/Female Lockable Handle</b>	BVTLH/015	15	Body Seat Retainer Seat Ball Stem Packing	Brass (Nickel Plated)	Thread MAX Working Temperature Cold Working Pressure Size	BSPP MxF & FxF 170°C 30 Bar 8-100 NB
	BVTLH/020	20		Brass (Nickel Plated)		
	BVTLH/025	25		PTFE		
	BVTLH/032	32		Brass (Chromium plated)		
	BVTLH/040	40		Brass		
	BVTLH/050	50		Viton (Double O Ring)		

# THE SMARTER CHOICE.

## METAL VALVES

### STRAINERS

	MATERIALS		SPECIFICATIONS	
	Part	Material	Thread	BSP
<b>RUB Brass Y Strainer - BYS</b>	Body & Cap Mesh	Brass Stainless Steel	Max Working Temperature Cold Working Pressure Size	110°C up to 20 Bar 15-65 NB
<b>Bronze Y Strainer - PYS</b>	Body & Cap Mesh	Bronze Stainless Steel	Thread Max Working Temperature Cold Working Pressure Size	BSP 170°C up to 20 Bar 15-50 NB
<b>Stainless Steel Y Strainer - ABVS</b>	Body Cap Gasket Mesh	316 Stainless Steel 316 Stainless Steel PTFE 304 Stainless Steel	Thread Max Working Temperature Cold Working Pressure Size	BSP 230°C 40 Bar 15-50 NB
<b>Cast Iron Y Strainer - HWS</b>	Body & Cover Screen Gasket Plug	Ductile Iron (Epoxy Coated) 304 Stainless Steel EPDM Malleable Iron	Flanged Max Working Temperature Cold Working Pressure Size	AS2129 T/E 80°C 16 Bar 50-250 NB

# METAL VALVES

## KITZ BUTTERFLY VALVES

### KITZ BUTTERFLY VALVES, CONCENTRIC WITH BONDED SEAT

DN 50-300, EPDM/NBR liner for drinking water, SS316 disc

Kitz Figure DJ range of concentric butterfly valves are available in wafer and lug design with lever and gearbox.

The design has bonded seats and spherical design for discs and seats to minimise wear and prolong service life.

The valve is available with EPDM and NBR Linings and has a low operating torque.

	Code	Size NB (mm)	MATERIALS		SPECIFICATIONS	
			Part	Material		
<b>Kitz Wafer Butterfly Valve, EPDM</b>  	VBFWE050	50	Body	Ductile Iron	Flanges - Wafer Universal: AS2129 D/E EN 1092 PN 10/16 ANSI 125/150	
	VBFWE065	65	Handle / Gearbox	Aluminium		
	VBFWE080	80	Disc	316 Stainless Steel		
	VBFWE100	100	Seat	EPDM or NBR		
	VBFWE125	125	Bushing	Epoxy Glass Fibre Composite		Cold Working Pressure 16 Bar MAX Working Temperature EPDM 110°C
	VBFWE150	150	Notch Plate	316 Stainless Steel		MAX Working Temperature Nitrile Nitrile 80°C
	VBFWE200	200	O-Ring	EPDM or Nitrile		Size 50-300 NB
	VBFWE250	250				Lever Operated up to DN200, Gear Operated above.
	VBFWE300	300				
<b>Kitz Wafer Butterfly Valve, NBR</b>  	VBFWN050	50				
	VBFWN065	65				
	VBFWN080	80				
	VBFWN100	100				
	VBFWN125	125				
	VBFWN150	150				
	VBFWN200	200				
	VBFWN250	250				
	VBFWN300	300				
<b>Lever Handle as standard 50-200mm Gearbox 250-300mm</b>						

# THE SMARTER CHOICE.

## METAL VALVES

### KITZ BUTTERFLY VALVES

	Code	Size NB (mm)	MATERIALS		SPECIFICATIONS
			Part	Material	
Kitz Lugged Butterfly Valve, ANSI 150, EPDM	VBFLAE050	50	Body	Ductile Iron	Flanges - Lugged AS2129 D/E EN 1092 PN 10/16 ANSI 125/150
	VBFLAE065	65	Handle / Gearbox	Aluminium	
	VBFLAE080	80			
	VBFLAE100	100	Disc	316 Stainless Steel	
	VBFLAE125	125	Seat	EPDM or NBR	
	VBFLAE150	150	Bushing	Epoxy Glass Fibre Composite	
	VBFLAE200	200	Notch Plate	316 Stainless Steel	
	VBFLAE250	250	O-Ring	EPDM or Nitrile	
	VBFLAE300	300			
					Cold Working Pressure 16 Bar MAX Working Temperature EPDM 110°C MAX Working Temperature Nitrile 80°C Size 50-300 NB
Lever Handle as standard 50-200mm Gearbox 250-300mm					Lever Operated up to DN200, Gear Operated above.
Kitz Lugged Butterfly Valve, ANSI 150, NBR	VBFLAN050	50			
	VBFLAN065	65			
	VBFLAN080	80			
	VBFLAN100	100			
	VBFLAN125	125			
	VBFLAN150	150			
	VBFLAN200	200			
	VBFLAN250	250			
	VBFLAN300	300			
Lever Handle as standard 50-200mm Gearbox 250-300mm					
Kitz Lugged Butterfly Valve, Table E, EPDM	VBFLEE050	50			
	VBFLEE065	65			
	VBFLEE080	80			
	VBFLEE100	100			
	VBFLEE125	125			
	VBFLEE150	150			
	VBFLEE200	200			
	VBFLEE250	250			
	VBFLEE300	300			
Lever Handle as standard 50-200mm Gearbox 250-300mm					
Kitz Lugged Butterfly Valve, Table E, NBR	VBFLEN050	50			
	VBFLEN065	65			
	VBFLEN080	80			
	VBFLEN100	100			
	VBFLEN125	125			
	VBFLEN150	150			
	VBFLEN200	200			
	VBFLEN250	250			
	VBFLEN300	300			
Lever Handle as standard 50-200mm Gearbox 250-300mm					
Kitz Lugged Butterfly Valve, EN1092, PN16, EPDM	VBFLME050	50			
	VBFLME065	65			
	VBFLME080	80			
	VBFLME100	100			
	VBFLME125	125			
	VBFLME150	150			
	VBFLME200	200			
	VBFLME250	250			
	VBFLME300	300			
Lever Handle as standard 50-200mm Gearbox 250-300mm					

# METAL VALVES

## SAFETY RELIEF VALVES

	Code	Size NB (mm)	MATERIALS		SPECIFICATIONS	
			Part	Material		
<b>VYC Relief Valves</b> <b>Model 095 AP</b> 	VYCO95AP/015	15	Type	AP – Open Cap with Lever	Pressure Range Air & Gases 0.5 to 16 Bar	
	VYCO95AP/020	20	Design	ISO 4126-1:2004	Pressure Range Steam 0.5 to 13 Bar	
	VYCO95AP/025	25	Complies with	Directive 97/23/EC & ATEX 94/9/CE	MAX Temperature 230°C	
	VYCO95AP/032	32	Body & Trim Material	Brass EN-CW617N	Size 15-50 NB	
	VYCO95AP/040	40	Connections	BSP M/F	Open Lever not suitable for back pressure applications. Available in Stainless Steel on Request.	
	VYCO95AP/050	50	Seat	PTFE	Under 3.5Bar set Pressure seat needs to be Silicon or Viton	
<b>VYC Relief Valves</b> <b>Model 095 ES</b> 	VYCO95ES/015	15	Type	ES – Closed Cap	Pressure Range Air & Gases 0.5 to 16 Bar	
	VYCO95ES/020	20	Design	ISO 4126-1:2004	Pressure Range Steam 0.5 to 13 Bar	
	VYCO95ES/025	25	Complies with	Directive 97/23/EC & ATEX 94/9/CE	MAX Temperature 230°C	
	VYCO95ES/032	32	Body & Trim Material	Brass EN-CW617N	Size 15-50 NB	
	VYCO95ES/040	40	Connections	BSP M/F	Closed Cap suitable for back pressure applications. Available in Stainless Steel on Request.	
	VYCO95ES/050	50	Seat	PTFE	Under 3.5Bar set Pressure seat needs to be Silicon or Viton	

# THE SMARTER CHOICE.

## METAL VALVES

### ASMUSS A-DISC BUTTERFLY VALVES

	Code	Size NB (mm)	Face to Face (mm)	MATERIALS		SPECIFICATIONS
				Part	Material	
<b>A-Disc Lugged T/E Butterfly Valve, 304 Disc, EPDM Seat, Gear Operated</b>	ADVLE304G/350	350	78	Body	Cast Iron	End Connection Lugged, AS2129 tab. E  Cold Working Pressure 16 Bar Max working Temperature 110°C Design Code API609
	ADVLE304G/400	400	102	Stem	SS416	
	ADVLE304G/450	450	114	Disc	SS304	
	ADVLE304G/500	500	127	Gear	Ductile Iron	
	ADVLE304G/600	600	154	Seat	EPDM	
				Bushing	PTFE	
				O-ring	EPDM	
				Handwheel	Ductile Iron	
				Worm Shaft	SS416	
				Bolts	SS304	
				Washers	SS316	
<b>A-Disc Lugged T/E Butterfly Valve, 316 Disc, EPDM Seat, Lever Operated</b>	ADVLE316/050	50	43	Body	Cast Iron	End Connection Lugged, AS2129 tab. E  Cold Working Pressure 16 Bar Max working Temperature 110°C Design Code API609
	ADVLE316/065	65	46	Shaft	SS416	
	ADVLE316/080	80	46	Disc	SS316	
	ADVLE316/100	100	52	Seat	EPDM	
	ADVLE316/125	125	56	Bushing	FRP	
	ADVLE316/150	150	56	O-ring	NBR	
	ADVLE316/200	200	60	Half Ring	SS304	
	ADVLE316/250	250	68	Gasket	SS304	
	ADVLE316/300	300	78	Circlip	SS304	
				Indicator Plate	SS304	
				Lever	Ductile Iron	
				Fasteners	SS304	
				Washers	SS316	
<b>A-Disc Lugged T/E Butterfly Valve, 316 Disc, EPDM Seat, Gear Operated</b>	ADVLE316G/100	100	52	Body	Cast Iron	End Connection Lugged, AS2129 tab. E  Cold Working Pressure 16 Bar Max working Temperature 110°C Design Code API609
	ADVLE316G/150	150	56	Shaft	SS416	
				Disc	SS316	
				Seat	EPDM	
				Bushing	FRP	
				O-ring	NBR	
				Half Ring	SS304	
				Gasket	SS304	
				Circlip	SS304	
				Worm Gear	Ductile Iron	
				Handwheel	Ductile Iron	
				Worm Shaft	SS416	
				Fasteners	SS304	
				Washers	SS316	
<b>A-Disc Lugged T/E Butterfly Valve, DI Disc, EPDM Seat, Lever Operated</b>	ADVLEDI/080	80	46	Body	Cast Iron	End Connection Lugged, AS2129 tab. E  Cold Working Pressure 16 Bar Max working Temperature 110°C Design Code API609
	ADVLEDI/100	100	52	Shaft	SS416	
	ADVLEDI/150	150	56	Disc	Ductile Iron	
	ADVLEDI/200	200	60	Seat	EPDM	
	ADVLEDI/250	250	68	Bushing	FRP	
	ADVLEDI/300	300	78	O-ring	NBR	
				Half Ring	SS304	
				Gasket	SS304	
				Circlip	SS304	
				Indicator Plate	SS304	
				Lever	Ductile Iron	
				Fasteners	SS304	
				Washers	SS316	

# METAL VALVES

## ASMUSS A-DISC BUTTERFLY VALVES

	Code	Size NB (mm)	Face to Face (mm)	MATERIALS		SPECIFICATIONS
				Part	Material	
<b>A-Disc Lugged T/E Butterfly Valve, DI Disc, EPDM Seat, Gear Operated</b>	ADVLEDIG/100	100	52	Body	Cast Iron	End Connection Lugged, AS2129 tab. E
	ADVLEDIG/150	150	56	Shaft	SS416	Cold Working Pressure 16 Bar
				Disc	Ductile Iron	Max working Temperature 110°C
				Seat	EPDM	Design Code API609
				Bushing	FRP	
				O-ring	NBR	
				Half Ring	SS304	
				Gasket	SS304	
				Circlip	SS304	
				Worm Gear	Ductile Iron	
				Handwheel	Ductile Iron	
				Worm Shaft	SS416	
				Fasteners	SS304	
				Washers	SS316	
<b>A-Disc Wafer Butterfly Valve, 316 Disc, EPDM Seat, Lever Operated</b>	ADVWE316/050	50	43	Body	Cast Iron	End Connection Universal Wafer
	ADVWE316/065	65	46	Bushing	FRP	Cold Working Pressure 16 Bar
	ADVWE316/080	80	46	Seat	EPDM	Max working Temperature 110°C
	ADVWE316/100	100	52	Disc	SS316	Design Code API609
	ADVWE316/125	125	56	Shaft	SS416	
	ADVWE316/150	150	56	O-ring	NBR	
	ADVWE316/200	200	60	Half Ring	SS304	
	ADVWE316/250	250	68	Gasket	SS304	
	ADVWE316/300	300	78	Circlip	SS304	
				Indicator Plate	SS304	
				Lever	Ductile Iron	
				Fasteners	SS304	
				Washers	SS316	
<b>A-Disc Lugged T/E Butterfly Valve, 316 Disc, EPDM Seat, Gear Operated</b>	ADVWE316G/080	80	46	Body	Cast Iron	End Connection Universal Wafer
	ADVWE316G/100	100	52	Shaft	SS416	Cold Working Pressure 16 Bar
	ADVWE316G/150	150	56	Disc	SS316	Max working Temperature 110°C
	ADVWE316G/200	200	60	Seat	EPDM	Design Code API609
				Bushing	FRP	
				O-ring	NBR	
				Half Ring	SS304	
				Gasket	SS304	
				Circlip	SS304	
				Worm Gear	Ductile Iron	
				Handwheel	Ductile Iron	
				Worm Shaft	SS416	
				Fasteners	SS304	
				Washers	SS316	
<b>A-Disc Lugged T/E Butterfly Valve, DI Disc, EPDM Seat, Lever Operated</b>	ADWWEDI/080	80	46	Body	Cast Iron	End Connection Universal Wafer
	ADWWEDI/100	100	52	Bushing	FRP	Cold Working Pressure 16 Bar
	ADWWEDI/125	125	56	Seat	EPDM	Max working Temperature 110°C
	ADWWEDI/150	150	56	Disc	Ductile Iron	Design Code API609
	ADWWEDI/200	200	60	Shaft	SS416	
	ADWWEDI/250	250	68	O-ring	NBR	
	ADWWEDI/300	300	78	Half Ring	SS304	
				Gasket	SS304	
				Circlip	SS304	
				Indicator Plate	SS304	
				Lever	Ductile Iron	
				Fasteners	SS304	
				Washers	SS316	

# THE SMARTER CHOICE.

## METAL VALVES

### ASMUSS A-DISC BUTTERFLY VALVES

	Code	Size NB (mm)	Face to Face (mm)	MATERIALS		SPECIFICATIONS
				Part	Material	
<b>A-Disc Lugged T/E Butterfly Valve, DI Disc, EPDM Seat, Gear Operated</b>	ADVWEDIG/100	100	52	Body	Cast Iron	End Connection
	ADVWEDIG/150	150	56	Shaft	SS416	Universal Wafer
	ADVWEDIG/200	200	60	Disc	Ductile Iron	Cold Working Pressure
				Seat	EPDM	Max working Temperature
				Bushing	FRP	110°C
				O-ring	NBR	Design Code
				Half Ring	SS304	API609
				Gasket	SS304	
				Circlip	SS304	
				Worm Gear	Ductile Iron	
				Handwheel	Ductile Iron	
				Worm Shaft	SS416	
				Fasteners	SS304	
				Washers	SS316	



# METAL VALVES

## WATER AND WASTEWATER VALVES

### AVK BUTTERFLY VALVES

#### AVK BUTTERFLY VALVES, CONCENTRIC WITH LOOSE LINER

DN 50-300, EPDM liner for drinking water, SS316 disc, square shaft

AVK's Series 576 range of concentric butterfly valves are available in wafer and lug design with lever and gearbox. The design is with anti-blowout shaft, hexagon connection, low friction bearings and an EPDM liner with reinforced seating area and profiled flange gaskets.

	Code	Size NB (mm)	STANDARDS	FEATURES
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<b>AVK Wafer Butterfly Valve</b>  	VBFWAVK050 VBFWAVK065 VBFWAVK080 VBFWAVK100 VBFWAVK125 VBFWAVK150 VBFWAVK200 VBFWAVK250 VBFWAVK300	50 65 80 100 125 150 200 250 300	<p>Designed according to EN 593 Face to face according to EN 558 Table 2 Basic Series 20 Universal Wafer Body</p> <p><b>TEST/APPROVALS</b></p> <p>Hydraulic test according to EN 12266-1, P10/P12 Approved for drinking water / pressure test EN 12266-1 Approved to AS4795.1 butterfly valves for waterworks services</p>	<p>Ductile iron body with long neck for insulation Anti-blowout 2-stub shaft with uneven hexagon for safe assembly Both shafts carried by low friction PTFE coated bearings</p> <p>Loose liner of drinking water approved EPDM with reinforced seating area and integrated, profiled flange gaskets. The shaft holes are dimensioned to create compression around the shaft. Slim disc design with internal hexagon for drive shaft connection Dew point blocker for heat insulation from lever or wormgear Anti blow-out plate at the top and a plug at the bottom Two POM bearings and an EPDM O-ring at the top as backup sealing 350 µm epoxy coating, RAL 5017 Lever of high strength reinforced synthetic material with 10 position notch plate (DN 50-200) Self locking gearbox with handwheel, adjustable end stops and mechanical position indicator (DN 250-300)</p>
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	Code	Size NB (mm)	STANDARDS	FEATURES
<b>AVK Lugged Butterfly Valve 4087, PN16, EPDM</b>  	VBFLAVKD/E050 VBFLAVKD/E065 VBFLAVKD/E080 VBFLAVKD/E125 VBFLAVKD100 VBFLAVKD150 VBFLAVKD200 VBFLAVKD250 VBFLAVKD300	50 65 80 100 125 150 200 250 300	<p>Designed according to EN 593 Face to face according to EN 558 Table 2 Basic Series 20 Lugged Body drilling to AS 2129 table D / AS/NZS 4087 PN16</p> <p><b>TEST/APPROVALS</b></p> <p>Hydraulic test according to EN 12266-1, P10/P12 Approved for drinking water / pressure test EN 12266-1 Approved to AS4795.1 butterfly valves for waterworks services</p>	<p>Ductile iron body with long neck for insulation Anti-blowout 2-stub shaft with uneven hexagon for safe assembly Both shafts carried by low friction PTFE coated bearings</p> <p>Loose liner of drinking water approved EPDM with reinforced seating area and integrated, profiled flange gaskets. The shaft holes are dimensioned to create compression around the shaft. Slim disc design with internal hexagon for drive shaft connection Dew point blocker for heat insulation from lever or wormgear Anti blow-out plate at the top and a plug at the bottom Two POM bearings and an EPDM O-ring at the top as backup sealing 350 µm epoxy coating, RAL 5017 Lever of high strength reinforced synthetic material with 10 position notch plate (DN 50-200) Self locking gearbox with handwheel, adjustable end stops and mechanical position indicator (DN 250-300)</p>
<b>AVK Lugged Butterfly Valve Table E, EPDM</b>  	VBFLAVKE100 VBFLAVKE150 VBFLAVKE200 VBFLAVKEG250 VBFLAVKEG300	100 150 200 250 300		

# THE SMARTER CHOICE.

## METAL VALVES

### WATER AND WASTEWATER VALVES

VALMATIC VALVES				
	MATERIALS		SPECIFICATIONS	
	Part	Material		
<b>Valmatic ABF Butterfly Valve Undrilled - VBFD</b>  	Body	Ductile Iron FBE Coated	Flanges	Ub-Drilled
	Disc	Ductile Iron FBE Coated	Max Pressure	PN17
	Shaft	316 Stainless Steel	Max Temperature	80°C
	Bearings	PTFE Impregnated Stainless Steel	Certified to	AWWA C504
	Disc Seal	NBR	Size	250 - 600 NB
	Seal Retainer	316 Stainless Steel	* Other sizes available on request.	
	Fastenings	316 Stainless Steel		
<b>Valmatic Camcentric Plug Valve - VPD</b>  	Body	Ductile Iron FBE Coated	Flanges	Ub-Drilled
	Packing	NBR Vee Packing	Max Pressure	PN10
	Bearing Seals	NBR Grit Guard (Patented)	Max Temperature	80°C
	Bearings	PTFE Impregnated Stainless Steel	Certified to	AWWA C517 Certified
	Plug / Shaft	NBR Encapsulated Ductile Iron	Size	80 - 300NB
	Bolts	316 Stainless Steel	* Other sizes available on request.	
				
<b>Valmatic Swingflex Check Valve - VCSF</b>  	Body	Ductile Iron FBE Coated	Flanges	Ub-Drilled
	Cover	Ductile Iron FBE Coated	Max Pressure	PN17
	Disc	NBR Encapsulated Steel	Max Temperature	80°C
	Cover Bolts	316 Stainless Steel	Certified to	AWWA C508 Certified
	Cover Gasket	Non-Asbestos Fibre	Size	80 - 600NB
	* Other sizes available on request.			
				
<b>Valmatic Surgebuster Check Valve - VCSB</b>  	Body	Ductile Iron FBE Coated	Flanges	Ub-Drilled
	Cover	Ductile Iron FBE Coated	Max Pressure	PN17
	Disc	NBR Encapsulated Steel	Max Temperature	80°C
	Disc Accelerator	Stainless Steel	Certified to	AWWA C508 Certified
	Cover Bolts	316 Stainless Steel	Size	80 - 600NB
	Cover Gasket	Non-Asbestos Fibre	* Other sizes available on request.	
				

# METAL VALVES

## WATER AND WASTEWATER VALVES

VALMATIC VALVES				
	MATERIALS		SPECIFICATIONS	
	Part	Material		
<b>Valmatic Silent Check Valve - VCGS</b>	Body	Cast Iron	Flanges	Ub-Drilled
	Disc	Lead Free Bronze	Max Pressure	PN17
	Seat	Lead Free Bronze	Max Temperature	80°C
	Resilient Seat	(NBR / EPDM)	Certified to	AWWA C508 Certified
	Spring	T316 Stainless Steel	Size	80 - 600NB
			* Other sizes available on request.	
				
<b>Valmatic Water Air Release Valve</b>	Body	Ductile Iron FBE Coated	Thread	NPT
	Cover	Ductile Iron FBE Coated	Max Pressure	PN12
	Float	316 Stainless Steel	Max Temperature	80°C
	Seal	NBR	Certified to	AWWA C512 Certified
	Fastenings	316 Stainless Steel	Size	15 - 80 NB
			* Other sizes available on request.	
			Note: Air Valves should be sized to suit a required discharge capacity	
				
<b>Valmatic Water Air Vacuum Valve</b>	Body	Ductile Iron FBE Coated	Thread	NPT
	Cover	Ductile Iron FBE Coated	Max Pressure	upto PN20
	Float	316 Stainless Steel	Max Temperature	80°C
	Seal	NBR	Certified to	AWWA C512 Certified
	Fastenings	316 Stainless Steel	Size	50 - 80 NB
			* Other sizes available on request.	
			Note: Air Valves should be sized to suit a required discharge capacity	
				
<b>Valmatic Water Combination Air Valve</b>	Body	Ductile Iron FBE Coated	Thread	NPT
	Cover	Ductile Iron FBE Coated	Max Pressure	upto PN20
	Float	316 Stainless Steel	Max Temperature	80°C
	Seal	NBR	Certified to	AWWA C508 Certified
	Fastenings	316 Stainless Steel	Size	50 - 1200NB
			* Other sizes available on request.	
			Note: Air Valves should be sized to suit a required discharge capacity	
				

# THE SMARTER CHOICE.

## METAL VALVES

### WATER AND WASTEWATER VALVES

VALMATIC VALVES					
	MATERIALS		SPECIFICATIONS		
	Part	Material	Thread	NPT	
<b>Valmatic Wastewater Air Release Valve</b>  	Body	Ductile Iron FBE Coated	Thread	NPT	
	Cover	Ductile Iron FBE Coated	Max Pressure	PN10	
	Float	316 Stainless Steel	Max Temperature	80°C	
	Seal	NBR	Certified to	AWWA C512 Certified	
	Fastenings	316 Stainless Steel	Size	Available on request	
* Other sizes available on request. Note: Air Valves should be sized to suit a required discharge capacity					
 American Water Works Association					
<b>Valmatic Wastewater Air Vacuum Valve</b>  	Body	Ductile Iron FBE Coated	Thread	NPT	
	Cover	Ductile Iron FBE Coated	Max Pressure	PN10	
	Float	316 Stainless Steel	Max Temperature	80°C	
	Seal	NBR	Certified to	AWWA C512 Certified	
	Fastenings	316 Stainless Steel	Size	Available on request	
* Other sizes available on request. Note: Air Valves should be sized to suit a required discharge capacity					
 American Water Works Association					
<b>Valmatic Wastewater Combination Air Valve</b>  	Body	Ductile Iron FBE Coated	Thread	NPT	
	Cover	Ductile Iron FBE Coated	Max Pressure	PN10	
	Float	316 Stainless Steel	Max Temperature	80°C	
	Seal	NBR	Certified to	AWWA C512 Certified	
	Fastenings	316 Stainless Steel	Size	25 - 100 NB	
* Other sizes available on request. Note: Air Valves should be sized to suit a required discharge capacity					
 American Water Works Association					

# METAL VALVES

## WATER AND WASTEWATER VALVES

### AVK RESILIENT SEAT GATE VALVES AND HAND WHEELS

	Code	Size OD (mm)		Code	Size OD (mm)
<b>Anti-Clockwise Closing, Double Flanged</b>	VRACC050	50		VRACC08500C	80
	VRACC08500AK	80		VRACC10500CK	100
	VRACC10500AK	100		VRACC15500CK	150
	VRACC15500AK	150		VRACC20500CK	200
	VRACC20500AK	200		VRACC25500CK	250
	VRACC25500AK	250			
	VRACC30500AK	300			
	VRACC37500AK	375			
	VRDCC45500A	450			
	VRDCC50500A	500			
<b>Handwheel (only) Anti-Clockwise Closing</b>	VZDHW08500A7K	80-150		VZDHW08500C7K	80-150
	VZDHW20500A7K	200		VZDHW20500C7K	200
	VZDHW22500A7K	225-300		VZDHW22500C7K	225-300
	VZDHW37500A7K	375-400			



Manufactured and Independently certified by SAI Global to AS/NZS 2638.2.2002.

Ductile Iron body, with a Rilsan Nylon 11 coating to AS4158. Fully EPDM Encapsulated Resilient Seated Wedge, with Stainless Steel and Gunmetal internals. Available as Anti-clockwise Closing for Underground use, flanged to AS4087 Fig B5 (Table D). Clockwise closing available for above ground use, supplied with handwheel, and flanged ends.

Maximum working Pressure 16 Bar, Body Tested to 24 Bar.

### BELGICAST RESILIENT SEATED GATE VALVE

	Code	Size OD (mm)
<b>Belgicast Resilient Seated Gate Valve BSP Thread</b>	ZZ6NZ0270	50



### HYDRANT VALVES

	Code	Size		Code	Size
<b>AVK Squat Hydrant</b>	ZZ6NZ6138	Squat		ZZ6N6135	Tall

# THE SMARTER CHOICE.

## METAL VALVES

### WATER AND WASTEWATER VALVES

OTHER VALVES				
	MATERIALS		SPECIFICATIONS	
Part	Material			
<b>Proco 740 Inline Duckbill Check Valves</b>	Body Connection Clamp Material	Neoprene Slip in expanding clamp Duplex Stainless Steel	Flanges Max Pressure Max Temperature Certified Size	In-Line To Suit Customer Requirements 82°C (Neoprene) AWWA, UL,FSA, NAHAD 50 - 1800NB
				On Indent. Other materials are available on request. Other Designs available on request.
<b>Larner Johnson Valves</b>	Body Plunger/Needle Nose Piece Pilot Valve Cross Shaft O Rings Fastenings	Ductile Iron, Cast Steel, & Aluminium Bronze Stainless Steel Gr 1.4301 Aluminium Bronze Aluminium Bronze Stainless Steel Gr 1.4057 EPDM Stainless Steel A2	Flanges Max Pressure Max Temperature Max Velocity Size	To Suit 50 Bar 82°C (Neoprene) Up to 12m/sec 80 - 2500NB
				On Indent. Other materials are available on request. Other Designs available on request.
<b>Metso Neles RA Series Segmented Ball Valve - NJRA</b>	Body Segmented Ball Stem Back Seal Packing Seats Bearing	316 Stainless Steel "329 Stainless Steel + Chromium" 329 Duplex Stainless Steel Stainless Steel + PTFE "PTFE Graphite optional" Cobolt Based Alloy PTFE Optional PTFE + Stainless Steel Net	Type Flanges Pressure/Shut off Control Temperature Flow Characteristic Approvals Options	V-Port Control Valve Flangeless, reduced bore, Metso face to face length Body Class 300/ PN 40 up to 50 Bar / 35 Bar up to 600°C Equal Percentage Fire test to BS6755 and API607 4th edition Pneumatic Actuation, Limit Switch Pneumatic Positioner, Electro-Pneumatic Postioner (Smart), & Electric
				Suitable for Water & Wastewater Flow Control.
<b>Prisma Pneumatic Actuators - PRACT</b>	Body Valve mounting Switch mounting Torques for Double Acting @ 5.5 Bar Air supply Torques for Spring Return @ 5.5 Bar Air supply	Aluminium Rilsan coated both internally & externally. Stainless Steel Option ISO-5211 VDI/VDE 3845 NAMUR 15.5 Nm – 4600 Nm 5.5 Nm – 4011 Nm	Design Rotation MAX Working Pressure Working Temperature Springs Stroke adjustment Protection	Atex directive 94-9-EC 90 degrees 8 Bar -32 to 90°C Pre-loaded & captured From 85 to 92 degrees IP67
Aluminium				
Stainless Steel				

# METAL VALVES

## WATER AND WASTEWATER VALVES

OTHER VALVES			
	MATERIALS		SPECIFICATIONS
	Part	Material	
<b>Prisma Limit Switch - PRCFC</b>  	Material	Polyester coated Aluminium	Protection
	Switches	V3 or P&F Proximity	Terminal Connections
			Position Indication Coloured with "Open" or "Close"

<b>Solenoid Valve - BSV</b>  	Material	Polyamide or Aluminium	Protection	IP65 with cable plug
			Voltage	24 DC, 24/110/230 AC 50-60 Hz
			Connections	3/2, 5/2, and 5/3
			Port Size	Threaded 1/4"

### Rotork Actuators and Controls

Available on request.



### MACK Pilot Operated Control Valves

Available on request.



# THE SMARTER CHOICE.

## METAL VALVES

### INDUSTRIAL VALVES

VALMET VALVES			
	MATERIALS		SPECIFICATIONS
	Part	Material	
<b>Neles® RA Series Segmented Ball Valve - NJRA</b>  	Body	316 Stainless Steel	Type V-Port Control Valve
	Segmented Ball	329 Stainless Steel + Chromium	Flanges Flangeless, reduced bore, Metso face to face length, Body Class 300/PN 40
	Stem	329 Duplex Stainless Steel	Pressure Shut Off / Control Upto PN50 / PN35
	Back Seal	Stainless Steel + PTFE	Temperature up to 600°C
	Packing	PTFE Graphite optional	Flow Characteristic Equal Percentage
	Seats	Colbolt Based Alloy PTFE Optional	Aprovals Fire test to BS6755 and API607, 4th edition
	Bearings	PTFE + Stainless Steel Net	Options Pneumatic Actuation, Limit Switch Pneumatic Positioner, Electro-Pneumatic Positioner (Smart)
			Size 25 - 100 NB
			* Other sizes available on request.
			Note: We have NelProf control valve sizing software to accurately size your control applications.

<b>Neles® L Series Triple Eccentric Butterfly Valve - NJL</b>  	Body	WCB - Carbon Steel or CF8M - 316 Stainless Steel	Flanges ANSI 150 or ANSI 300
	Disc	316 Stainless Steel	Model LW Wafer
	Stem	17-4Ph	LG Lugged
	Seat Ring	Hard chrome plated Incoloy 825	Pressure up to PN40
	Bearings	AISI 316 + PTFE or cobalt based alloy	Temperature up to 600°C
			Material / Test Cert. EN 10204-3.1B
			Aprovals Fire test to BS6755 and API607, 4th edition
			Options Pneumatic Actuation, Limit Switch Pneumatic Positioner, Electro-Pneumatic Positioner (Smart)
			Sizes 80 - 200 NB
			* Other sizes available on request. Note: We have NelProf control valve sizing software to accurately size your control applications.

<b>Neles® GU Series Globe Control Valve - NJGU</b>  	Body	WCB - Carbon Steel or 316 Stainless Steel	Flanges ANSI 150 - ANSI 2500
	Plug Set	410 Stainless Steel 630 Stainless Steel	Pressure up to 5000 PSI
	Plug	410 Stainless Steel	Temperature Standard trim 260°C upto 593°C
	Seat Ring	410 Stainless Steel	Cv Ratio 50 : 1
	Stem	630 Stainless Steel + HCr	Flow Characteristics Equal Percentage & Linear Options
	"Seat Gasket Body Gasket"	S/W GASKET, 316 SS + GRAPHITE	Low Emission Option Low emission gland packing with Live load spring
	Seat Ring	410 Stainless Steel	Actuator Options Pneumatic Actuation, Limit Switch Pneumatic Positioner, Electro-Pneumatic Positioner (Smart)
	Packing Ring	PTFE + Carbon Fibre	Sizes Available on Request
			* Other sizes available on request. Note: We have NelProf control valve sizing software to accurately size your control applications.

# METAL VALVES

## INDUSTRIAL VALVES

VALMET VALVES					
	MATERIALS		SPECIFICATIONS		
	Part	Material	Type	ASME B16.34	
<b>JAMESBURY® Series 9000 Floating Ball Valve - Flanged - NJ</b>	Body	Carbon Steel	Flanges	ANSI 150	
	Ball	316 Stainless Steel	Pressure	Up to 19 Bar	
	Stem	316 Stainless Steel	Temperature	-29 to 260°C	
	Seat	Xtreme®	Firesafe	API 607, BS6755 Pt 2	
			Size	25 to 100NB	
			*Other sizes/pressure ratings available on request.		
<b>JAMESBURY® Series 9000 Floating Ball Valve - Socketed - NJ</b>	Body	Carbon Steel	Type	ASME B16.34 CL800	
	Ball	316 Stainless Steel	Ends	NPT SWF	
	Stem	316 Stainless Steel	Pressure	Up to 137 Bar	
	Seat	Xtreme®	Temperature	-29 to 250°C	
			Firesafe	API 607	
			Size	15 to 50NB	
			* Other sizes/pressure ratings available on request.		
<b>Neles® BI Series Pneumatic Actuators</b>	Housing	Cast Iron	Type	Double Acting or Spring Return (FO or FC)	
	Cylinder	Aluminium Alloy Epoxy Coated Option: Steel Epoxy Coated	Mounting	ISO	
	Lever Arm	Ductile Iron + Nickel	Accessory Mounting	Interface engineered to VDI/VDE with the use of Metso linkages.	
	Piston Bearings	PE-HD	Pressure	Up to 19 Bar	
	O-Rings	Nitrile Rubber	Temperature	Standard Construction: -29 to 70°C High Temperature: -20 to 120°C	
	Piston	Aluminium Alloy	Approvals	ATEX	
	Piston Rod	Steel, hard chrome plated	Optional Extras	Locking Device, Shock Absorber, Automatic Latching Device, Manual Latching Device. Manual Override, Hydraulic Manual Override.	
	Design	Scotch Yoke	Output Torque	DA: 40 Nm to 100,000 Nm @ 10 Bar Max Air Supply SR: 25 Nm to 12,000 Nm @ 8.5 Bar Max Air Supply	
<b>Neles® ND9000 Electro-Pneumatic Smart Positioners</b>	Housing	Anodized Aluminium alloy and Polymer composite Optional Stainless Steel	Type	Rotary or Linear	
	Pneumatic Ports	G1/4 (ND9100) 1/4 NPT (ND9200, ND9300 & ND9400)	Mounting	ISO	
	Indication	Mechanical and digital position indicator visible through main cover on standard units.	Accessory Mounting	Interface engineered to VDI/VDE with the use of Metso linkages.	
	Output Signal	4 - 20mA (galvanic isolation 600VDC)	Pneumatic Air Supply	1.4 to 8 Bar	
	Communication	HART, FOUNDATION fieldbus, Profibus PA	Temperature	Standard Version: minus 40 to 85°C	
	Protection class:	IP66 / NEMA 4X enclosure	Approvals	Ex ia / Ex nA: ATEX, IECEEx, INMETRO, cCSAus, CCOE/PESO and KOSHAEx d: ATEX, IECEEx, INMETRO, cCSAus, CCOE/PESO, KOSHA, GOST R and NEPSI, SIL2 Rtd	
	Piston Rod	Steel, hard chrome plated	Neles ND9000 is designed to operate on every control valve actuator and in all industry areas. ND9000 is a smart, reliable and future-proof positioner with life-time support. Its superior design features and unique diagnostics provide a solid foundation for performance optimization and proactive maintenance.		
	Design	Scotch Yoke	Note: Also available are Neles standard Pneumatic and Electro Pneumatic Positioners		

# THE SMARTER CHOICE.

## METAL VALVES

### INDUSTRIAL VALVES

KITZ VALVES					
	MATERIALS		SPECIFICATIONS		
	Part	Material	Type	API 608	
<b>KITZ® Ball Valve C / Steel Class 150 - VBAC150K</b> 	Body	A216 WCB, Carbon Steel	Type	API 608	
	Ball	316 Stainless Steel	Flanges	ANSI 150RF	
	Stem (CAPI Design)	316 Stainless Steel	Pressure	2MPa	
	Seats	Hypatite (Reinforced PTFE)	Temperature	-29 to 120°C	
	Packing	Graphite (Live Loaded)	Certification / Aprovals	API 607, NACE MR0175	
			Size	DN25 - DN250	
			*Pressure Temperature dependant based on valve size. Used for frequent operation, for flow Isolation, on Petroleum based media (e.g. Oil, Natural Gas, Petroleum, etc), Steam, and most clean media subject to material suitability.		
<b>KITZ® Ball Valve C / Steel Class 300 - VBAC300K</b> 	Body	A216 WCB, Carbon Steel	Type	API 608	
	Ball	316 Stainless Steel	Flanges	ANSI 300RF	
	Stem (CAPI Design)	316 Stainless Steel	Pressure	5.2MPa	
	Seats	Hypatite (Reinforced PTFE)	Temperature	-29 to 120°C	
	Packing	Graphite (Live Loaded)	Certification / Aprovals	API 607, NACE MR0175	
			Size	DN25 - DN250	
			*Pressure Temperature dependant based on valve size. Used for frequent operation, for flow Isolation, on Petroleum based media (e.g. Oil, Natural Gas, Petroleum, etc), Steam, and most clean media subject to material suitability.		
<b>KITZ® Ball Valve Stainless Steel Class 150 - VBAS150K</b> 	Body	Carbon Steel	Type	API 608	
	Ball	316 Stainless Steel	Flanges	ANSI 150RF	
	Stem (CAPI Design)	316 Stainless Steel	Pressure	1.96MPa	
	Seats	Hypatite (Reinforced PTFE)	Temperature	-29 to 120°C	
	Packing	Graphite (Live Loaded)	Certification / Aprovals	API 607, NACE MR0175	
			Size	DN25 - DN250	
			*Pressure Temperature dependant based on valve size. Used for frequent operation, for flow Isolation on Petroleum based media (e.g. Oil, Natural Gas, Petroleum, Chemicals etc), Steam, and most clean media subject to material suitability.		
<b>KITZ® Ball Valve Stainless Steel Class 300 - VBAS300K</b> 	Body	A216 WCB, Carbon Steel	Type	API 608	
	Ball	316 Stainless Steel	Flanges	ANSI 300RF	
	Stem (CAPI Design)	316 Stainless Steel	Pressure	5MPa	
	Seats	Hypatite (Reinforced PTFE)	Temperature	-29 to 120°C	
	Packing	Graphite (Live Loaded)	Certification / Aprovals	API 607, NACE MR0175	
			Size	DN25 - DN250	
			*Pressure Temperature dependant based on valve size. Used for frequent operation, for flow Isolation on Petroleum based media (e.g. Oil, Natural Gas, Petroleum, Chemicals etc), Steam, and most clean media subject to material suitability.		
<b>KITZ® Gate Valve C / Steel Class 150 - VGAC150K</b> 	Body	ASTM A216 WCB	Type	API 600	
	Disc	Carbon Steel + 13Cr	Flanges	ANSI 150RF	
	Stem	ASTM A182 6Fa	Pressure	2MPa	
	Seats	Steel Seats Hard Faced & Welded	Temperature	-29 to 538°C	
	Packing	Graphite - Low Emission	Certification / Aprovals	Firesafe by Design, NACE MR0175	
			Size	DN40 - DN900	
			*Pressure Temperature dependant. Used for infrequent operation, slow closing and opening, for flow Isolation on Petroleum based media (e.g. Oil, Natural Gas, Petroleum, etc), Steam, and most clean media subject to material suitability.		

# METAL VALVES

## INDUSTRIAL VALVES

KITZ VALVES					
	MATERIALS		SPECIFICATIONS		
	Part	Material	Type	API 600	
<b>KITZ® Gate Valve C/Steel Class 300 - VGAC300K</b>  	Body	ASTM A216 WCB	Flanges	ANSI 300RF	
	Disc	Carbon Steel + 13Cr	Pressure	5.2Mpa	
	Stem	ASTM A182 6Fa	Temperature	-29 to 538°C	
	Seats	Steel Seats Hard Faced & Welded	Certification / Aprovals	Firesafe by Design, NACE MR0175	
	Packing	Graphite - Low Emission	Size	DN40 - DN900	
			*Pressure Temperature dependant. Used for infrequent operation, slow closing and opening, for flow Isolation on Petroleum based media (e.g. Oil, Natural Gas, Petroleum, etc), Steam, and most clean media subject to material suitability.		
<b>KITZ® Gate Valve Stainless Steel Class 150 - VGAS150K</b>  	Body	A351 CF8M	Type	API 600	
	Disc	A351 CF8M	Flanges	ANSI 150RF	
	Stem	316 Stainless Steel	Pressure	2MPa	
	Packing	Graphite - Low Emission	Temperature	-29 to 454°C	
			Certification / Aprovals	Firesafe by Design, NACE MR0175	
			Size	DN15 - DN600	
<b>KITZ® Gate Valve Stainless Steel Class 300 - VGAS300K</b>  	Body	A351 CF8M	Type	API 600	
	Disc	A351 CF8M	Flanges	ANSI 300RF	
	Stem	316 Stainless Steel	Pressure	5.2Mpa	
	Packing	Graphite - Low Emission	Temperature	-29 to 454°C	
			Certification / Aprovals	Firesafe by Design, NACE MR0175	
			Size	DN15 - DN600	
*Pressure Temperature dependant. Used for infrequent operation, slow closing and opening, for flow Isolation on Petroleum based media (e.g. Oil, Natural Gas, Petroleum, etc), Steam, and most clean media subject to material suitability.					

# THE SMARTER CHOICE.

## METAL VALVES

### INDUSTRIAL VALVES

NEWAY VALVES					
	MATERIALS		SPECIFICATIONS		
	Part	Material	Type	API 600	
<b>NEWAY® Gate Valve Cast Steel - VGAC</b> 	Body	Carbon Steel	Type	API 600	
	Gate	Carbon Steel	Flanges	ANSI 150, 300 & 600	
	Stem	410 Stainless Steel (F6A) 17-4PH	Pressure	Up to 100 Bar	
	Packing	Graphite PTFE	Temperature	-29 to 538°C	
	Trim	API Trim 8 API Trim 5	Size	50 to 400NB	
			* Other sizes/pressure ratings available on request		
<b>NEWAY® Globe Valve Cast Steel - VGLC</b> 	Body	Carbon Steel	Type	API 600	
	Plug	Carbon Steel	Flanges	ANSI 150, 300 & 600	
	Stem	410 Stainless Steel	Pressure	Up to 100 Bar	
	Packing	Graphite	Temperature	-29 to 538°C	
	Trim	API Trim 5	Size	50 to 150NB	
			* Other sizes/pressure ratings available on request		
<b>NEWAY® Check Valve Cast Steel - VCSC</b> 	Body	Carbon Steel	Type	API 600	
	Gate	Carbon Steel	Flanges	ANSI 150	
	Hinge Pin	410 Stainless Steel	Pressure	Up to 19 Bar	
	Trim	API Trim 5	Temperature	-29 to 538°C	
			Size	50 to 100NB	
			* Other sizes/pressure ratings available on request		
<b>NEWAY® Check Valve Dual Plate - VLC, VCW</b> 	Body	Carbon Steel	Type	API 594	
	Gate	Carbon Steel	Flanges	ANSI 150, 300 & 600	
	Stem	410 Stainless Steel	Pressure	Up to 100 Bar	
	Springs	Inconel X750	Temperature	-29 to 538°C	
	Trim	API Trim 5	Size	50 to 200NB	
			* Other sizes/pressure ratings available on request		
<b>NEWAY® Gate Valve Forged Steel - VGAC800</b> 	Body	Carbon Steel	Type	API 602	
	Gate	316 Stainless Steel	Ends	NPT SWF	
	Stem	316 Stainless Steel	Pressure	Up to 135 Bar	
	Packing	Graphite	Temperature	-29 to 538°C	
	Trim	API Trim 16	Size	15 to 50NB	
			* Other sizes/pressure ratings available on request		
<b>NEWAY® Globe Valve Forged Steel - VGAC800</b> 	Body	Carbon Steel	Type	API 602	
	Disc	Carbon Steel	ENDS	NPT SWF	
	Springs	Inconel X750	Pressure	Up to 135 Bar	
	Trim	API Trim 5	Temperature	-29 to 538°C	
			Size	15 to 50NB	
			* Other sizes/pressure ratings available on request		

# METAL VALVES

## INDUSTRIAL VALVES

NEWAY VALVES					
	MATERIALS		SPECIFICATIONS		
	Part	Material	Type	API 608	
<b>NEWAY® Floating Ball Valve - VBAC</b>	Body	Carbon Steel	Type	API 608	
	Ball	Carbon Steel + ENP 316 Stainless Steel	Flanges	ANSI 150 to 2500	
	Stem	Carbon Steel + ENP 316 Stainless Steel	Pressure	Up to 50 Bar	
	Seat	Reinforced PTFE	Temperature	-29 to 120°C	
			Firesafe	API 607	
			Size	25 to 150NB	
* Other sizes/pressure ratings available on request					
<b>NEWAY® Floating Ball Valve - VBAC</b>	Body	Carbon Steel	Type	ASME B16.34 CL800,1500,2500	
	Ball	316 Stainless Steel	Ends	NPT SWF	
	Stem	316 Stainless Steel	Pressure	Up to 430 Bar	
	Seat	Nylon 12 PEEK	Temperature	-29 to 538°C	
			Firesafe	API 607	
			Size	15 to 40NB	
* Other body materials available on request					
<b>NEWAY® Trunnion Ball Valve - VBAC</b>	Body	Carbon Steel	Type	API 6D	
	Ball	Carbon Steel + ENP 316 Stainless Steel	Flanges	ANSI 600 to 2500	
	Stem	Carbon Steel + ENP 316 Stainless Steel	Pressure	Up to 430 Bar	
	Seat	Reinforced PTFE Nylon 12 PEEK	Temperature	-29 to 200°C	
			Firesafe	API 607, 6FA	
			Size	50 to 200NB	
* Other sizes/pressure ratings available on request					

# THE SMARTER CHOICE.

## METAL VALVES

### INDUSTRIAL VALVES

NEWAY VALVES				
	MATERIALS		SPECIFICATIONS	
	Part	Material	Type	ASME B16.34 CL600
<b>BRAY Flow-Tek® Triad Series Floating Ball Valve - BRVF</b> 	Body	Carbon Steel 316 Stainless Steel	Ends	Threaded Socket Weld Butt Weld Extended Socket Weld Extended Butt Weld ASME 150/300/600 Flanged
	Ball	316 Stainless Steel		
	Stem	316 Stainless Steel		
	Seat	RPTFE, Filtek®, PEEK		
			Pressure	Up to 150 Bar
			Temperature	-29 to 240°C (Per seat selection)
			Firesafe	API 607
			Size	15 to 50NB
			* Indent Only	
<b>BRAY Flanged Series Floating Ball Valve - BRVF</b> 	Body	Carbon Steel 316 Stainless Steel	Type	ASME B16.34 CL800
	Ball	316 Stainless Steel	Flange	ANSI 150, 300
	Stem	316 Stainless Steel	Pressure	Up to 137 Bar
	Seat	RPTFE, Filtek®, PEEK	Temperature	-29 to 240°C (Per seat selection)
			Firesafe	API 607
			Size	15 to 300NB
			* Other body materials available on request	
<b>Bray Wafer Butterfly Valve - BRVW30</b> 	Body	Cast Iron Poly Coated	Flanges	Wafer to suit ANSI, EN, and AS Flange Standards
	Disc	316St/St or Nylon Coated DI	Max Pressure	PN12
	Shaft	316 Stainless Steel	Max Temperature	NBR: 80°C EPDM: 120°C
	Bearings	Acetal (Delrin)	Certified to	Lloyds, DNV, & ABS
	Seat	NBR or EPDM	Size	DN50 - DN300
	Operator	Available with Handlever, Gearbox, Pneumatic or Electric Operation	1. Not Suitable For Steam or Condensate 2. Other sizes available on request 3. Ensure you check seat material compatibility with the media.	
<b>Bray Wafer Butterfly Valve - BRVL31</b> 	Body	Cast Iron Poly Coated	Flanges	Lugged AS2129 T/E or ANSI 125
	Disc	316St/St or Nylon Coated DI	Max Pressure	PN12
	Shaft	316 Stainless Steel	Max Temperature	NBR: 80°C EPDM: 120°C
	Bearings	Acetal (Delrin)	Certified to	AGA, Lloyds, DNV, & ABS
	Seat	NBR or EPDM	Size	DN50 - DN300
	Operator	Available with Handlever, Gearbox, Pneumatic or Electric Operation	1. Not Suitable For Steam or Condensate 2. Other sizes available on request 3. Ensure you check seat material compatibility with the media.	
<b>Bray Double Acting &amp; Spring Return Actuators</b> 	Cylinder	Anodised Aluminium	Type	Double Acting or Spring Return
	Pistons	Aluminium Alloy	Mounting	ISO 5211
	Piston Guides	Acetal	Accessory Mounting	Namur
	Pinion	Nitrile Rubber	Pressure	Up to 19 Bar
	Piston Bearings	Acetal	Temperature	Standard Construction: -29 to 70°C High Temperature: -20 to 120°C
	O-Rings	Nitrile Rubber	Approvals	ATEX
	Design	Rack & Pinion	Output Torque	DA: 40 Nm to 100,000 Nm @ 10 Bar Max Air Supply SR: 25 Nm to 12,000 Nm @ 8.5 Bar Max Air Supply

# METAL VALVES

## INDUSTRIAL VALVES

### FARRIS VALVES

	MATERIALS		SPECIFICATIONS	
	Part	Material		
<b>Farris Fig 2400 Safety Valve</b>	Materials of Construction	Carbon Steel Stainless Steel Brass/Bronze	Size	1/2" x 3/4" to 1" x 1"
	Seat Materials	Elastomer, Plastic	Set Pressure Ranges	20 to 2,000PSI (1.38 to 137.9 Bar)
	Orifice	API B (0.049 in <sup>2</sup> ) - E (0.196 in <sup>2</sup> )	Temperature Ranges	minus 268 to 288°C
	Suitable for	Air, Gas, & Vapour Service	Certification / Aprovals	ASME/NB Section VIII National Board, NB CRN (Canadian Registration)
				ASME Section VIII, Direct Spring Loaded, Soft Seat Design, External Blowdown Control, Full Lift at Set Pressure.
				* Pressure Temperature dependant based on Pressure Class.
<b>Farris Fig 2600 Safety Valve</b>	Materials of Construction	Carbon Steel Stainless Steel Low/High Temp Alloy Steels Monel Hastelloy C Duplex NACE Compliant Materials	Size	1" x 2" to 20" x 24"
	Orifice	API D (0.15 in <sup>2</sup> ) - Z (176.7 in <sup>2</sup> )	Set Pressure Ranges	15 to 6,000PSI (1.0 to 413 Bar)
	Suitable for	Air, Gas, Vapour, Steam & Liquid Service	Temperature Ranges	minus 195 to 815°C
			Certification / Aprovals	ASME/NB Section VIII & III CSA B51 ISO 9001-2008 PED 97/23/EC ATEX 94/9/EC Nucklear - 10 CRF 50 Appendix B
			Flange Classes	150# - 2500#
				Conforms to API 526, Full Nozzle Design, Integral Cast Flanges, Metal Seat with optional O-Ring, Balanced Bellows Option, Open Bonnet & Lever Assembly option, Adjustable Blowdown, 2600L - Multiple Service Single Trim Design.
<b>Farris Fig 2700 Safety Valve</b>	Materials of Construction	Carbon Steel Stainless Steel Low/High Temp Alloy Steels Monel Hastelloy C Duplex NACE Compliant Materials	Size	1/2" x 1" to 1-1/2" x 2-1/2"
	Orifice	API C (0.068 in <sup>2</sup> ) - G (0.573 in <sup>2</sup> )	Set Pressure Ranges	15 to 6,000PSI (1.0 to 413 Bar)
	Suitable for	Air, Gas, Vapour, Steam & Liquid Service	Temperature Ranges	minus 195 to 399°C
			Certification / Aprovals	ASME/NB Section VIII & III CSA B51 ISO 9001-2008 PED 97/23/EC ATEX 94/9/EC Nucklear - 10 CRF 50 Appendix B
			Flange Classes	150# - 2500#
				The 2700 Series pressure relief valve, also known as an expansion relief valve, features a superior design that handles air, steam, vapor, and liquid services. In addition, the fixed blowdown design simplifies testing and repair, and the maximum interchangeability of parts allows for easy maintenance.

# THE SMARTER CHOICE.

## METAL VALVES

### INDUSTRIAL VALVES

FARRIS VALVES					
	MATERIALS		SPECIFICATIONS		
	Part	Material	Size	1" x 2" to 12" x 16"	
<b>Farris Fig 2700 Safety Valve</b>	Materials of Construction	Carbon Steel Stainless Steel Low/High Temp Alloy Steels Monel Hastelloy C Duplex NACE Compliant Materials	Set Pressure Ranges	15 to 6,000PSI (1.0 to 413 Bar)	
	Orifice	API D (0.15 in <sup>2</sup> ) - T (26.0 in <sup>2</sup> )	Temperature Ranges	minus 195 to 399°C	
	Non API Orifice	A,1-8 (45.0 in <sup>2</sup> )	Certification / Approvals	ASME/NB Section VIII & III CSA B51 ISO 9001-2008 PED 97/23/EC ATEX 94/9/EC Nuclear - 10 CRF 50 Appendix B	
	Suitable for	Air, Gas, Vapour, Steam & Liquid Service	Flange Classes	150# - 2500#	
			ASME Section VIII, Direct Spring Loaded, Soft Seat Design, External Blowdown Control, Full Lift at Set Pressure. * Pressure Temperature dependant based on Pressure Class.		

CASHCO VALVES					
	MATERIALS		SPECIFICATIONS		
	Part	Material	Size	DN20 to DN50	
<b>Cashco - Model 1164 General Purpose</b>	Materials of Construction	Ductile Iron Carbon Steel Bronze	Pressure	DI - 175PSI (12Bar) BRZ - 200PSI (13.8Bar) CS - 225PSI (15.5Bar)	
	Trim Designs	Metal seated or com position seated with metal diaphragm	Temperature	minus 29 to 205°C	
	Max CV	15.7	Certification / Approvals	CE	
	Suitable for	Water, Air, & Steam Service	End Connections	NPT, BSPP	
			Back Pressure Regulators (other models available)		
<b>Cashco - Model DA6 High Flow</b>	Body/Cover Dome Materials	CI/DI BRZ/BRZ SST/DI CS/DI BRZ/DI SST/CS CS/CS HC/CS SST/SST HC/SST	Size	DN15 to DN100	
	Trim Designs	Metal seated or composition seated with metal diaphragm	Inlet Pressure	2.0" WC - 750 psig (51.7 Barg)	
	Capacity	Highest in the industry. Allows smaller body sizes than competitors in a majority of applications.	Pressure Drop	5-750 psid (.34-51.7 Bard)	
	Rangeability	Basic valve gives outstanding rangeability due to close tolerances, balanced trim, and a broad range of elastomeric diaphragms and soft seats. Can be as high as 1000:1.	Temperature	minus 254 to 204°C	
	Suitable for	Industrial Gases, Natural Gas, Air, Oil, Water, Steam, Corrosive & Non-Corrosive Chemical Services	Certification / Approvals	CE	
			End Connections	NPT, BSPP	
			Back Pressure Regulators (other models available)		

# METAL VALVES

## INDUSTRIAL VALVES

CASHCO VALVES				
	MATERIALS		SPECIFICATIONS	
	Part	Material	Size	DN15 to DN20
<b>Cashco - Model BA1/ BL1 - Sanitary</b>	Body Material	SST	Inlet Pressure	UP TO 135 psig (9.3 Bar)
	Surface Finish	Interior of body mechanically polished per ASME BPE (SFV-4). Interior and exterior surfaces are electro-polished.	Temperature	minus 29 to 135°C
	Max CV	BL1 - Inline Wide Open Cv: 1.22 BA1 - Angle Wide Open Cv: 1.86	Certification / Aprovals	Sanitary / Bio-Sanitary
	Adjustment Ease	Adjusting knob for frequent set point changes.	End Connections	Tri-Clamp, Tube End
	Suitable for	Pharmaceutical industry, Processed Food Production, Cosmetics Production, Specialty	Back Pressure Regulators (other models available)	
<b>Cashco - Model 14656 - General Purpose</b>	Body Material	ASTM A351, Gr. CF8M; Investment Cast 316 SST.	Size	DN8
	Spring Chamber	Standard: Cast bronze; ASTM B62, Alloy C83600. Optional: SST; ASTM A351, Gr.CF3M.	Pressure Drop	Pressure drops to 4700 psig (324 Barg).
	Diaphragm	302 SST, Neoprene, Elgiloy, Fluorocarbon Elast	Temperature	minus 29 to 205°C
	Suitable for	Natural Gas, Inert Gas, Sour Gas, Steam, Chemicals, Water	End Connections	NPT
			Pressure Reducing Regulators (other models available)	
<b>Cashco - Model 8310HP</b>	Body/Spring Chamber Materials	CI/DI CS/CS	Size	DN40 to DN100
	Trim Designs	316 SST, double ported, metal or composition seated, inherently balanced. Metal or com position diaphragms.	Inlet Pressure	2.0" WC - 750 psig (51.7 Barg)
	Capacity	DN40 - 27 Cv DN50 - 40 Cv DN65 - 55 Cv DN80 - 78 Cv DN100 - 100Cv	Differential Pressure Range	8310HP-1+6: 10–100 psid (0.7–6.9 Bard). 8310HP-1+8: 10–100 psid (0.7–6.9 Bard).
	Suitable for	Steam atomization systems using heavy oil.	Min Pressure Drop	8310HP-1+6: 3 psid (0.2 Bard). 8310HP-1+8: 5 psid (0.3 Bard).
			Maximum Outlet Pressure	Normal Operation – 8310HP-1+6: 175 psig (12.1 Barg). 8310HP-1+8: 175 psig (12.1 Barg).
			Temperature	minus 254 to 204°C
<b>Cashco - Model 5381 - Sanitary</b>	End Connections		End Connections	NPT, Flanged
			Differential Pressure Reducing Regulators (other models available)	
			Widely applied in steam atomization systems using heavy oil (Nos. 3-6, Bunker C) to fuel burners.	
	Body Material	SST	Size	DN15
	Surface Finish	Interior of body surface electropolished to 32 micro-inch Ra finish with electro-polished exterior.	Inlet Pressure	UP TO 600 psig (41.3 Barg)
	Max CV	0.5	Maximum Drop	400 psig (27.6 Barg)
	Adjustment Ease	Adjusting knob for frequent set point changes.	Temperature	minus 29 to 135°C
	Suitable for	Pharmaceutical health care products, Processed food production, Cosmetic productions, Specialty chemicals	Certification / Aprovals	Sanitary
			End Connections	Sanitary Clamp
			Pressure Reducing Regulators (other models available)	

# THE SMARTER CHOICE.

## METAL VALVES

### INDUSTRIAL VALVES

CASHCO VALVES				
	MATERIALS		SPECIFICATIONS	
	Part	Material	Size	DN20 - DN300
<b>Cashco - Model 6A00</b>	Body Material Casing / Element / Rim Material Optional Suitable for	CS (Zinc Plated) SST SST Temperature Sensor Flammable gases or vapor of flammable liquids	Temperature Certification / Aprovals End Connections	0 to 60°C CE NPT, Flanged
			Flame Arrestors (other models available) Its primary function is to allow the flow of gases or vapor of flammable liquids through the enclosure, but prevent the transmission of a flame. The element inside the housing provides an extinguishing barrier to the ignited vapor mixture by absorbing heat from the flame. The Model 6A00 is used as an independent safety system to ensure explosion protection.	
<b>Cashco - Model 3700</b>	Body Diaphragm Materials	ALUM, CS, 304 or 316 SST, DERAKANE, HETRON FEP-TFE, FKM, Buna-N, EPDM	Size Set Point Pressure Range Temperature End Connections	DN400 to DN600 Ranges between 0.79 and 21.81 oz/in <sup>2</sup> , depending on pallet material and line size. FEP-TFE: minus 240 to 204°C FKM: minus 28 to 204°C Buna-N: minus 34 to 93°C EPDM: minus 40 to 107°C ASME 150#, API 650 150#, DIN
			Emergency Vents (other models available) The Model 3700 manhole and emergency pressure vents provide emergency pressure relief beyond that furnished by the normal pressure vent for atmospheric and low pressure tanks, as well as providing a convenient access for tank cleaning, inspection and repair.	
<b>Cashco - Model 1078</b>	Body Material Diaphragm Case Material Max CV Suitable for	CS, SST ASTM A351 CF3M, Hastelloy C Carbon Steel (Powder Coated), Stainless Steel, Hastelloy C® up to 48 Storage Tank Blanketing	Size Design Pressure Maximum Back Pressure Temperature End Connections	DN25 & DN50 Maximum outlet pressure range 1-1/2" TO 6" WC (VAC) (3.7- 14.8 MBAR) 25 psig (1.7 Bar) FKM: minus 28 to 204°C Buna-N: minus 34 to 93°C EPDM: minus 40 to 107°C FFKM 1: minus 30 to 204°C FFKM 2: minus 40 to 204°C NPT, Flanged
			Tank Blanketing Valve (other models available)	
<b>Cashco - Model 4200</b>	Housing / Pallet Material Diaphragm Material Gaskets	CS/316SST, 316SST/316SST, Aluminium/316SST FEP-TFE, FKM, Buna-N, EPDM TFE/TFE Rope	Size Pressure Set Point Vacuum Set Point Temperature End Connections	DN25 & DN50 Reffer data sheet Reffer data sheet FKM: minus 28 to 204°C Buna-N: minus 34 to 93°C EPDM: minus 40 to 107°C FFKM 1: minus 30 to 204°C FFKM 2: minus 40 to 204°C NPT, Flanged
			Tank Vents (other models available including Pilot Operated) The Model 4200 pipe-away conservation vent is part of the Valve Concepts, Inc. modular vent product line. The Model 4200 can easily be converted to a vacuum only vent or end-of-line pressure / vacuum vent and can either be direct acting or pilot operated. Only Valve Concepts, Inc. offers complete modularity throughout its complete vent product line.	

# +GF+ MANUAL VALVES

## FOR CHEMICAL PROCESS APPLICATIONS

Asmuss offers the broadest range of high quality thermoplastic valves available from stock in New Zealand. These valves are ideally suited for chemical handling and other corrosive or severe industrial applications.

As the design and use of plastic valves differs considerably from that of metal valves, Asmuss can provide specialist technical assistance, site visits or demonstrations to help select the valve best suited to particular applications.

Most of the valves shown on this list can be considered to be available from stock, or with very short delivery times. Many other types, sizes or material options are also available on special order. Full technical literature on our complete valve range is available upon request. We welcome your specific enquiries.

**All +GF+ Valves are of a modular construction. If the valve combination you require is not on our product list please contact us as we are likely to be able to build a valve to meet your requirements.**

Asmuss stock a comprehensive range of spare parts and accessories. Please contact us for more information.

### +GF+ 546 PRO DOUBLE UNION BALL VALVES

	Code	Size (NB) mm			Code	Size (NB) mm
<b>PVC-U EPDM seals</b>	VGF546/015 VGF546/020 VGF546/025 VGF546/032 VGF546/040 VGF546/050 VGF546/065 VGF546/080 VGF546/100	15 20 25 32 40 50 65 80 100		<b>PVC-U FPM Seals</b>	VGF546FPM/015 VGF546FPM/020 VGF546FPM/025 VGF546FPM/032 VGF546FPM/040 VGF546FPM/050 VGF546FPM/065 VGF546FPM/080 VGF546FPM/100	15 20 25 32 40 50 65 80 100
<b>ABS EDPM Seals</b>	VGFABS546/015 VGFABS546/020 VGFABS546/025 VGFABS546/032 VGFABS546/040 VGFABS546/050 VGFABS546/065 VGFABS546/080 VGFABS546/100	15 20 25 32 40 50 65 80 100		<b>PVC-C FPM Seals</b>	VGFC546/015 VGFC546/020 VGFC546/025 VGFC546/032 VGFC546/040 VGFC546/050 VGFC546/065 VGFC546/080 VGFC546/100	15 20 25 32 40 50 65 80 100
<b>PP-h EPDM Seals</b>	VGFPP546E/020 VGFPP546E/025 VGFPP546E/032 VGFPP546E/040 VGFPP546E/050 VGFPP546E/063 VGFPP546E/075 VGFPP546E/090 VGFPP546E/110	20 25 32 40 50 63 75 90 110		<b>PVDF FPM Seals</b>	VGFPVDF546/020 VGFPVDF546/025 VGFPVDF546/032 VGFPVDF546/040 VGFPVDF546/050 VGFPVDF546/063 VGFPVDF546/075 VGFPVDF546/090 VGFPVDF546/110	20 25 32 40 50 63 75 90 110
	Code	Size (OD) mm			Code	Size (OD) mm
<b>PP-h FPM Seals</b>	VGFPP546F/020 VGFPP546F/025 VGFPP546F/032 VGFPP546F/040 VGFPP546F/050 VGFPP546F/063 VGFPP546F/075 VGFPP546F/090 VGFPP546F/110	20 25 32 40 50 63 75 90 110		<b>PP-h FPM Seals</b>	VGFPP546F/020 VGFPP546F/025 VGFPP546F/032 VGFPP546F/040 VGFPP546F/050 VGFPP546F/063 VGFPP546F/075 VGFPP546F/090 VGFPP546F/110	20 25 32 40 50 63 75 90 110

The +GF+ 546 is a full bore plastic ball valve designed with the most demanding applications in mind. The unique modularity of the valve allows customisation to exactly suit a customer's requirements.

A wide variety of construction materials are available.

# THE SMARTER CHOICE.

## +GF+ MANUAL VALVES

### FOR CHEMICAL PROCESS APPLICATIONS

#### +GF+ 542 BALL VALVES

	Code	Size (NB) mm			Code	Size (NB) mm
<b>542 Ball Valve</b> <b>PVC-U, EPDM Seals</b>	VGF542/015	15			VGF542FPM/015	15
	VGF542/020	20			VGF542FPM/020	20
	VGF542/025	25			VGF542FPM/025	25
	VGF542/032	32			VGF542FPM/032	32
	VGF542/040	40			VGF542FPM/040	40
	VGF542/050	50			VGF542FPM/050	50



**542 Ball Valve**  
**PVC-U, FPM Seals**



#### +GF+ 546 PRO VENTED BALL VALVES

	Code	Size (NB) mm			Code	Size (NB) mm

Based on Georg Fischer's premium ball valve series, the vented ball valve is designed for applications such as chlorinated water, water where bleach (sodium hypochlorite solutions) is present, and other applications where liquids requiring out-gassing exist.\* The special vent on one side of the ball allows for pressure to be released back into the closed system. This helps prevent potentially dangerous pressure from building up inside the valve. Since the valve is based on the type 546 series, virtually all of the same accessories are available.

\*Chemical applications vary from system to system. Issues such as concentration, temperature, and pressure all play a role. It is the responsibility of the individual user to verify compatibility and recommend every application be verified and tested by internal experts or a third party.

**546 Vented Ball Valve**  
**PVC-U, EPDM Seals**



#### +GF+ 523 CONTROL BALL VALVES

	Code	Size (NB) mm			Code	Size (NB) mm
<b>523 Metering Valve</b> <b>PVC-U, EPDM Seals</b>	VGF523/010	10				
	VGF523/015	15				



#### Control Ball: Optional Feature

The Type 546 Control Ball is a keyed design and is available in PVC, CPVC, PP and PVDF. This ball is designed for applications requiring flow control. The keyed orifice provides a nearly linear flow characteristic curve and is superior to V-notch designs. This ball is not bidirectional. The required installation direction is to have the keyed orifice downstream. The Type 546 Control Ball can be added to any Type 546 Ball Valve within the available size range.

**546 Linear Control Valve**  
**Ball Only**



To be used with  
546 Ball Valve

161491032

15

161491034

25

161491037

50

The +GF+323 Metering Valve is for fine throttling in low flow applications . Indicator permits pre-determined flow rates to be duplicated.

The +GF+546 Ball Valve when fitted with a control ball allows fine control and throttling of flows in sizes up to 50. The ball is specially designed to give a linear correlation between the angle of the handle and flow rate.

All +GF+ Valves are of a modular construction. If the valve combination you require is not on our product list please contact us as we are likely to be able to build a valve to meet your requirements.

Asmuss stock a comprehensive range of spare parts and accessories. Please contact us for more information.

# +GF+ MANUAL VALVES

## FOR CHEMICAL PROCESS APPLICATIONS

### +GF+ 561 CONE CHECK VALVES

	Code	Size (NB) mm		Code	Size (NB) mm
<b>561 Cone Check PVC, EPDM Seals</b>	VGF561/015	15		VGFPP561/020	20
	VGF561/020	20		VGFPP561/025	25
	VGF561/025	25		VGFPP561/032	32
	VGF561/032	32		VGFPP561/040	40
	VGF561/040	40		VGFPP561/050	50
	VGF561/050	50		VGFPP561/063	63
	VGF561/065	65		VGFPP561/075	75
	VGF561/080	80		VGFPP561/090	90
	VGF561/100	100		VGFPP561/110	110
<b>561 Cone Check PVC, FPM Seals</b>	VGF561FPM/015	15		VGFPP561FPM/020	20
	VGF561FPM/020	20		VGFPP561FPM/025	25
	VGF561FPM/025	25		VGFPP561FPM/032	32
	VGF561FPM/032	32		VGFPP561FPM/040	40
	VGF561FPM/040	40		VGFPP561FPM/050	50
	VGF561FPM/050	50		VGFPP561FPM/063	63
	VGF561FPM/065	65		VGFPP561FPM/075	75
	VGF561FPM/080	80		VGFPP561FPM/090	90
	VGF561FPM/100	100		VGFPP561FPM/110	100
<b>561 Cone Check ABS, EPDM Seals</b>	VGFABS561/015	15		VGFPVDF561FPM/020	20
	VGFABS561/020	20		VGFPVDF561FPM/025	25
	VGFABS561/025	25		VGFPVDF561FPM/032	32
	VGFABS561/032	32		VGFPVDF561FPM/040	40
	VGFABS561/040	40		VGFPVDF561FPM/050	50
	VGFABS561/050	50		VGFPVDF561FPM/063	63
	VGFABS561/065	65			
	VGFABS561/080	80			
	VGFABS561/100	100			
<b>561 Cone Check CPVC, FPM Seals</b>	VGFC561FPM/015	15		The new streamlined check cone and the refined geometry provide for a significantly improved flow compared to valves with a check ball, without compromising functionality or leak-tightness.	
	VGFC561FPM/020	20		The self-closing mechanism operates autonomously, without any other energy source with a minimal line pressure.	
	VGFC561FPM/025	25		The wide range of connecting options means easy integration of the valves in all piping systems.	
	VGFC561FPM/032	32			
	VGFC561FPM/040	40			
	VGFC561FPM/050	50			
	VGFC561FPM/065	65			
	VGFC561FPM/080	80			
	VGFC561FPM/100	100			

### +GF+ 562 SPRING CHECK VALVES

	Code	Size (NB) mm
<b>562 Spring Check PVC-U, EPDM Seals</b>	VGF562/015	15
	VGF562/020	20
	VGF562/025	25
	VGF562/032	32
	VGF562/040	40
	VGF562/050	50
	VGF562/080	80
	VGF562/100	100

Standard offers SS 204

- Any installation position is possible thanks to the spring.
- The 562 check valve is equipped with a spring mechanism and closes tightly even without a water column. Thanks to this new design feature, the valve can be built in either vertically or horizontally.
- A full range of material and seal options available. Springs available in Stainless Steel, Nimonic 90 & Nimonic 90 Halar Coated.
- Price on application

# THE SMARTER CHOICE.

## +GF+ MANUAL VALVES

### FOR CHEMICAL PROCESS APPLICATIONS

#### +GF+ 543 3 - WAY BALL VALVES

	Code	Size (NB) mm			Code	Size (NB) mm
<b>PVC-U</b> <b>Horizontal/ LPort</b> <b>EPDM Seals</b> 	VGF543/015	15		<b>PVC-U</b> <b>Horizontal/ TPort</b> <b>EPDM Seals</b> 	VGF543T/015	15
VGF543/020	20		VGF543T/020	20	VGF543T/025	25
VGF543/025	25		VGF543T/025	25	VGF543T/032	32
VGF543/032	32		VGF543T/032	32	VGF543T/040	40
VGF543/040	40		VGF543T/040	40	VGF543T/050	50
VGF543/050	50					
<b>PVC-C</b> <b>Horizontal/ LPort</b> <b>FPM Seals</b> 	VGFC543FPM/015	15		<b>PVC-C</b> <b>Horizontal/ TPort</b> <b>FPM Seals</b> 	VGFC543TFPM/015	15
VGFC543FPM/020	20		VGFC543TFPM/020	20	VGFC543TFPM/025	25
VGFC543FPM/025	25		VGFC543TFPM/025	25	VGFC543TFPM/032	32
VGFC543FPM/032	32		VGFC543TFPM/032	32	VGFC543TFPM/040	40
VGFC543FPM/040	40		VGFC543TFPM/040	40	VGFC543TFPM/050	50
VGFC543FPM/050	50					
<b>ABS</b> <b>Horizontal/ LPort</b> <b>EPDM Seals</b> 	VGFABS543/015	15		<b>ABS</b> <b>Horizontal/ TPort</b> <b>EPDM Seals</b> 	VGFABS543T/015	15
VGFABS543/020	20		VGFABS543T/020	20	VGFABS543T/025	25
VGFABS543/025	25		VGFABS543T/025	25	VGFABS543T/032	32
VGFABS543/032	32		VGFABS543T/032	32	VGFABS543T/040	40
VGFABS543/040	40		VGFABS543T/040	40	VGFABS543T/050	50
VGFABS543/050	50					
	Code	Size (OD) mm			Code	Size (OD) mm
<b>PP-h</b> <b>Horizontal/ LPort</b> <b>EPDM Seals</b> 	VGFPP543/020	20		<b>PP-h</b> <b>Horizontal/ TPort</b> <b>EPDM Seals</b> 	VGFPP543T/020	20
VGFPP543/025	25		VGFPP543T/025	25	VGFPP543T/032	32
VGFPP543/032	32		VGFPP543T/032	32	VGFPP543T/040	40
VGFPP543/040	40		VGFPP543T/040	40	VGFPP543T/050	50
VGFPP543/050	50		VGFPP543T/050	50	VGFPP543T/063	63
VGFPP543/063	63					
<b>PP-h</b> <b>Horizontal/ LPort</b> <b>FPM Seals</b> 	VGFPP543FPM/020	20		<b>PP-h</b> <b>Horizontal/ TPort</b> <b>FPM Seals</b> 	VGFPP543TFPM/020	20
VGFPP543FPM/025	25		VGFPP543TFPM/025	25	VGFPP543TFPM/032	32
VGFPP543FPM/032	32		VGFPP543TFPM/032	32	VGFPP543TFPM/040	40
VGFPP543FPM/040	40		VGFPP543TFPM/040	40	VGFPP543TFPM/050	50
VGFPP543FPM/050	50		VGFPP543TFPM/050	50	VGFPP543TFPM/063	63
VGFPP543FPM/063	63					

The new +GF+ 543 Ball Valve (replacing the 343 model) provides quality, flexibility and reliability in both horizontal and vertical versions. The horizontal version come with an L or T port and is available in PVC-U,PVC-C, ABS, PP-h and PVDF. The vertical version is available in PVC-U and ABS with a metric solvent cement spigot as the third outlet. Diverter balls are also an additional option.

All +GF+ Valves are of a modular construction. If the valve combination you require is not on our product list please contact us as we are likely to be able to build a valve to meet your requirements.

Asmuss stock a comprehensive range of spare parts and accessories. Please contact us for more information.

# +GF+ MANUAL VALVES

## FOR CHEMICAL PROCESS APPLICATIONS

### +GF+ 591 VENT & BLEED VALVES

	Code	Size (OD) mm			Code	Size (OD) mm
<b>Type 591 Valve PVC / EPDM Socket and NPT Ends</b>	VGF591E/015	15		<b>PPH 591 Valve PP-h / EPDM Socket Fusion Ends</b>	VGFPP591E/020	20
	VGF591E/020	20			VGFPP591E/025	25
	VGF591E/025	25			VGFPP591E/032	32
	VGF591E/032	32			VGFPP591E/040	40
	VGF591E/040	40			VGFPP591E/050	50
	VGF591E/050	50			VGFPP591E/063	63
	*VGF591E/065	65				
	*VGF591E/080	80				
	*VGF591E/100	100				
*Indent Item						

The new Ventilating & Bleed Valves have an innovative PP-H float which has a very low density (.91g/cm3) ensuring reliable venting while preventing media overflow. The floats spherical sealing face lies absolutely flush with the seal ring.

### +GF+ 595 VENTILATING VALVES

#### Available on request

The GF 595 Ventilating Valve is used wherever safe and controlled air inlet is a must, such as emptying tanks.

### +GF+ 303 WYE CHECK VALVES

	Code	Size (mm)	
		NB	OD
<b>303 Wye Check Valve PVC-U, EDPM Seals Metric Spigot ends</b>	VGF303/015	15	20
	VGF303/020	20	25
	VGF303/025	25	32
	VGF303/032	32	40
	VGF303/040	40	50
	VGF303/050	50	63
	VGF303/065	65	75
	VGF303/080	80	90
Refer Valve Accessories for alternative adaptors			

The +GF+ 303 Wye Check Valve can be mounted to suit horizontal and vertical flows.

### +GF+ P20 WATER JET SUCTION PUMP

	Code	Size (NB) mm
<b>P20 Water Jet Pump PVC-U, EDPM Seals</b>	199041120	10
	199041121	15
	199041122	20
	199041123	25
	199041125	40
	199041126	50



### +GF+ 305 WYE STRAINERS

	Code	Size (mm)	
		NB	OD
<b>305 Wye Strainer PVC-U, EDPM Seals Metric Spigot ends</b>	VGF305/015	15	20
	VGF305/020	20	25
	VGF305/025	25	32
	VGF305/032	32	40
	VGF305/040	40	50
	VGF305/050	50	63
	VGF305/065	65	75
	VGF305/080	80	90
Refer Valve Accessories for alternative adaptors. Excludes screens - Refer below			

	Code	Size (NB) mm
<b>Screen for 305 Wye</b>	VGF305SC1.4/015	15
	VGF305SC1.4/020	20
	VGF305SC1.4/025	25
	VGF305SC1.4/032	32
	VGF305SC1.4/040	40
	VGF305SC1.4/050	50
	VGF305SC1.4/065	65
	VGF305SC1.4/080	80

Available in 0.5, 0.8, 1.4 & 2.2  
Please specify screen size  
when ordering

The +GF+ 305 Wye Strainer offers protection for valves and pumps. The strainers are easily dismounted for cleaning constructed from plastic with a clear body for screen inspection. Various screen sizes available.

# THE SMARTER CHOICE.

## +GF+ MANUAL VALVES

### FOR CHEMICAL PROCESS APPLICATIONS

#### +GF+ 582 PRESSURE REDUCING VALVE

	Code	Size (OD) mm
Type 582 Valve PVC-u / EPDM Socket	VGF582EPDM/015 VGF582EPDM/020 VGF582EPDM/025 VGF582EPDM/032 VGF582EPDM/040 VGF582EPDM/050	15 20 25 32 40 50
Type 582 Valve PVC-u / FPM Socket	VGF582FPM/015 VGF582FPM/020 VGF582FPM/025 VGF582FPM/032 VGF582FPM/040 VGF582FPM/050	15 20 25 32 40 50
Type 582 Valve CPVC / FPM Socket ASTM	VGFC582FPM/015 VGFC582FPM/020 VGFC582FPM/025 VGFC582FPM/032 VGFC582FPM/040 VGFC582FPM/050	15 20 25 32 40 50
Type 582 Valve PP-h / EPDM Socket Metric	VGFPP582EPDM/020 VGFPP582EPDM/025 VGFPP582EPDM/032 VGFPP582EPDM/040 VGFPP582EPDM/050 VGFPP582EPDM/063	20 25 32 40 50 63
Type 582 Valve PP-h / FPM Socket Metric	VGFPP582FPM/020 VGFPP582FPM/025 VGFPP582FPM/032 VGFPP582FPM/040 VGFPP582FPM/050 VGFPP582FPM/063	20 25 32 40 50 63
Type 582 Valve PVDF / FPM Spigot Metric	VGFPVDF582FPM/020 VGFPVDF582FPM/025 VGFPVDF582FPM/032 VGFPVDF582FPM/040 VGFPVDF582FPM/050 VGFPVDF582FPM/063	20 25 32 40 50 63

Pressure reducing valves, often referred to as pressure control valves, ensure that the pressure at the valve outlet remains constant. They are used wherever a higher system pressure needs to be reduced to a pre-defined value. Depending on the application, fluctuating pressures are evened out or devices branching out from the main pipeline are protected against excessive pressure.

Note: All valves listed are WITHOUT Manometer

#### +GF+ 586 PRESSURE RETAINING VALVE

	Code	Size (OD) mm
Type 586 Valve PVC-u / EPDM Socket	VGF586EPDM/015 VGF586EPDM/020 VGF586EPDM/025 VGF586EPDM/032 VGF586EPDM/040 VGF586EPDM/050	15 20 25 32 40 50
Type 586 Valve PVC-u / FPM Socket	VGF586FPM/015 VGF586FPM/020 VGF586FPM/025 VGF586FPM/032 VGF586FPM/040 VGF586FPM/050	15 20 25 32 40 50
Type 586 Valve CPVC / FPM Socket ASTM	VGFC586FPM/015 VGFC586FPM/020 VGFC586FPM/025 VGFC586FPM/032 VGFC586FPM/040 VGFC586FPM/050	15 20 25 32 40 50
Type 586 Valve PP-h / EPDM Socket Metric	VGFPP586EPDM/020 VGFPP586EPDM/025 VGFPP586EPDM/032 VGFPP586EPDM/040 VGFPP586EPDM/050 VGFPP586EPDM/063	20 25 32 40 50 63
Type 586 Valve PP-h / FPM Socket Metric	VGFPP586FPM/020 VGFPP586FPM/025 VGFPP586FPM/032 VGFPP586FPM/040 VGFPP586FPM/050 VGFPP586FPM/063	20 25 32 40 50 63
Type 586 Valve PVDF / FPM Spigot Metric	VGFPVDF586FPM/020 VGFPVDF586FPM/025 VGFPVDF586FPM/032 VGFPVDF586FPM/040 VGFPVDF586FPM/050 VGFPVDF586FPM/063	20 25 32 40 50 63

Pressure retaining valves, also known as overflow valves, ensure that the pressure at the valve inlet remains constant. They are used whenever the system pressure needs to be constant or a defined counterpressure needs to be generated against feed pumps. They balance out pressure pulsation and reduce pressure peaks.

Note: All valves listed are WITHOUT Manometer

# +GF+ MANUAL VALVES

## FOR CHEMICAL PROCESS APPLICATIONS

### +GF+ 567 INDUSTRIAL STANDARD BUTTERFLY VALVE

	Code	Size (NB) mm			Code	Size (NB) mm
<b>PVC-U, EPDM Seals Wafer, Lever Operated</b>	VGF567/050	50		<b>PVC-U, FPM Seals Wafer, Lever Operated</b>	VGF567FPM/050	50
	VGF567/065	65			VGF567FPM/065	65
	VGF567/080	80			VGF567FPM/080	80
	VGF567/100	100			VGF567FPM/100	100
	VGF567/125	125			VGF567FPM/125	125
	VGF567/150	150			VGF567FPM/150	150
	VGF567/200	200			VGF567FPM/200	200
	VGF567/250	250			VGF567FPM/250	250
	VGF567/300	300			VGF567FPM/300	300
<b>PVC-C, FPM Seals Wafer, Lever Operated</b>	VGFC567/065	65		<b>ABS, EPDM Seals Wafer, Lever Operated</b>	VGFABS567/080	80
	VGFC567/080	80			VGFABS567/100	100
	VGFC567/100	100			VGFABS567/150	150
	VGFC567/150	150			VGFABS567/200	200
	VGFC567/200	200				
			<b>Code</b>	<b>Size (OD) mm</b>		
<b>PP-h, EPDM Seals Lever Operated</b>	VGFPP567E/063	63		<b>PVC-U, EPDM Seals Wafer, Gear Box Operated</b>	VGF567GB/050	50
	VGFPP567E/075	75			VGF567GB/065	65
	VGFPP567E/090	90			VGF567GB/080	80
	VGFPP567E/110	110			VGF567GB/100	100
	VGFPP567E/140	140			VGF567GB/125	125
	VGFPP567E/160	160			VGF567GB/150	150
	VGFPP567E/225	225			VGF567GB/200	200
					VGF567GB/250	250
					VGF567GB/300	300

The model 567 Butterfly Valve is uniquely designed with a double eccentric disc. This reduces the frictional behaviour and seal wear, and provides improved protection against pressure surges. Operating torque is reduced by up to 50% increasing service life. The standard lever operated valve has 6 ratchet teeth to engage in the index plate ensuring safe and secure lever positioning. The index plate is set to 5 degree increments and is and optional fine adjustment can be fitted. Optimal limit switches can be fitted inside the shaft housing. Gearbox operated models are also available in PVC-U

### +GF+ 568 INDUSTRIAL STANDARD BUTTERFLY VALVE

	Code	Size (NB) mm			Code	Size (NB) mm
<b>PVC-U, EPDM Seals Lugged ANSI Lever Operated</b>	161568102	50		<b>PVC-U, EPDM Seals Lugged DIN Lever Operated</b>	161568002	50
	161568103	65			161568003	65
	161568104	80			161568004	80
	161568105	100			161568005	100
	161568106	125			161568006	125
	161568107	150			161568007	150
	161568108	200			161568008	200
<b>PVC-U, FPM Seals Lugged ANSI Lever Operated</b>	161568122	50		<b>PVC-U, FPM Seals Lugged DIN Lever Operated</b>	161568022	50
	161568123	65			161568023	65
	161568124	80			161568024	80
	161568125	100			161568025	100
	161568126	125			161568026	125
	161568127	150			161568027	150
	161568128	200			161568028	200

The model 568 offers the same specifications as the model 567 but with a black epoxy coated fully lugged body. Valves are available in both ANSI and DIN pattern suitable for end of line service.

# THE SMARTER CHOICE.

## +GF+ MANUAL VALVES

### FOR CHEMICAL PROCESS APPLICATIONS

The new generation +GF+ Diaphragm Valves have been created with three key elements in mind: safety, simplicity and efficiency. Now with one single central housing nut, plug and play features and improved liner flow properties the new generation valve series is an excellent choice for chemical process, water treatment and microelectronics applications.

These modular valves will be available in a range of materials and be configured with double union, spigot and flanged connections.

**Related Documents:**

- The New Generation Diaphragm Valve Brochure
- Innovation by Revolution Product Brochure

+GF+ 514 DOUBLE UNION END CONFIGURATION DIAPHRAGM VALVES							
	Code	Size (NB) mm			Code	Size (OD) mm	
<b>PVC</b> <b>EPDM Diaphragm</b> <b>EDPM O-Rings</b> <b>Socket Union Ends</b> <b>ASTM</b> 	VGF514/015	15			<b>PP-h</b> <b>EPDM Diaphragm</b> <b>EDPM O-Rings</b> <b>Socket Union Ends</b> <b>Metric</b> 	VGFPP514/020	20
	VGF514/020	20				VGFPP514/025	25
	VGF514/025	25				VGFPP514/032	32
	VGF514/032	32				VGFPP514/040	40
	VGF514/040	40				VGFPP514/050	50
	VGF514/050	50				VGFPP514/063	63
<b>PVC</b> <b>PTFE/EPDM Diaphragm</b> <b>FPM O-Rings</b> <b>Socket Union Ends</b> <b>ASTM</b> 	VGF514PTFE/015	15			<b>PP-h</b> <b>PTFE/EPDM Diaphragm</b> <b>FPM O-Rings</b> <b>Socket Union Ends</b> <b>Metric</b> 	VGFPP514PTFE/020	20
	VGF514PTFE/020	20				VGFPP514PTFE/025	25
	VGF514PTFE/025	25				VGFPP514PTFE/032	32
	VGF514PTFE/032	32				VGFPP514PTFE/040	40
	VGF514PTFE/040	40				VGFPP514PTFE/050	50
	VGF514PTFE/050	50				VGFPP514PTFE/063	63

+GF+ 514 Valves can be configured in other materials. Please contact our sales team for pricing information and availability.

The +GF+ 515 Spigot End and 517 Flanged range will be introduced later in the year. Please refer to our 315 and 317 series product list.

+GF+ 317 DIAPHRAGM VALVES							
	Code	Size (NB) mm			Code	Size (OD) mm	
<b>PVC-U, EPDM Seals</b> <b>Flange ANSI 150</b> 	VGF317/065	65			<b>PVC-U, EPDM Seals</b> <b>Flange ISO/DIN</b> 	161317523	65
	VGF317/080	80				161317524	80
	VGF317/100	100				161317525	100
	VGF317/150	150				161317527	150

Other materials and seals available on request.

The +GF+ 317 model has flanged end connections and is available in sizes up to 150 with ANSI-150 or iSO/DiN drilling configurations. Sizes 65-100mm have fixed flanges. If you need other combinations other than those listed in our product list please contact us.

**Flanged ends for 15-50mm Diaphragm Valves can be achieved by using the 315 model Diaphragm Valve and appropriate flanges (refer to our Piping Systems range).**

**All +GF+ Valves are of a modular construction. If the valve combination you require is not on our product list please contact us as we are likely to be able to build a valve to meet your requirements.**

**Asmuss stock a comprehensive range of spare parts and accessories. Please contact us for more information.**

# +GF+ MANUAL VALVES

## FOR CHEMICAL PROCESS APPLICATIONS

All +GF+ valves are serviceable and Asmuss hold a wide range of accessories and replacement parts. This is a sample list only, based on PVC, with parts available for all the other plastics we range. Replacement diaphragms are also available. Please contact us if you need to replace or modify your existing valve configurations.

### +GF+ 546 VALVE ENDS & NUTS

	Code	Size (NB) mm
PVC 546 Valve End Threaded	VA546BSP/015 VA546BSP/020 VA546BSP/025 VA546BSP/032 VA546BSP/040 VA546BSP/050 VA546BSP/080 VA546BSP/100	15 20 25 32 40 50 80 100
PVC 546 Valve End Steel Band Thread	VA546BSPSB/015 VA546BSPSB/020 VA546BSPSB/025 VA546BSPSB/032 VA546BSPSB/040 VA546BSPSB/050	15 20 25 32 40 50
PVC 546 Union Nut Only	VA546NUT/020 VA546NUT/025 VA546NUT/032 VA546NUT/040 VA546NUT/050 VA546NUT/080 VA546NUT/100	20 25 32 40 50 80 100

### +GF+ 546 EPDM SEAL SET

	Code	Size (NB) mm
EPDM Seal Set	VA546EPDMSET/015 VA546EPDMSET/020 VA546EPDMSET/025 VA546EPDMSET/032 VA546EPDMSET/040 VA546EPDMSET/050 VA546EPDMSET/080	15 20 25 32 40 50 80

### +GF+ 546 EXTENSION HANDLE BS/ASTM

	Code	Size (NB) mm
Extension Handle BS/ASTM	VA546HANX/015 VA546HANX/20-25 VA546HANX/32-40 VA546HANX/050	15 20-25 32-40 50

### +GF+ 546 PP MOUNTING PLATE

	Code	Size (NB) mm
PP Mounting Plate	VA546MP/10-25 VA546MP/32-50	10-25 32-50

### +GF+ 314 VALVE ENDS & NUTS

	Code	Size (NB) mm
PVC 314 Valve End BSP	VA314BSP/010 VA314BSP/015 VA314BSP/020 VA314BSP/025 VA314BSP/032 VA314BSP/040 VA314BSP/050	10 15 20 25 32 40 50
PVC 314 Valve End Plain	VA314SOCKET/010 VA314SOCKET/015 VA314SOCKET/020 VA314SOCKET/025 VA314SOCKET/032 VA314SOCKET/040 VA314SOCKET/050	10 15 20 25 32 40 50
PVC 314 Valve Nut	VA314NUT/010 VA314NUT/015 VA314NUT/020 VA314NUT/025 VA314NUT/032 VA314NUT/040 VA314NUT/050	10 15 20 25 32 40 50

### PVC ADAPTOR SOCKET PL/THD

	Code	Size (mm)	
		NB	OD
PVC Adaptor Socket Plain/Threaded BSP	VADPTSOPT/010 VADPTSOPT/015 VADPTSOPT/020 VADPTSOPT/025 VADPTSOPT/032 VADPTSOPT/040 VADPTSOPT/050 VADPTSOPT/065 VADPTSOPT/080	16 20 25 32 40 50 63 75 90	5/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3"

Metric PVC to female thread

### PVC ADAPTOR SOCKET PLAIN

	Code	Size (mm)	
		NB	OD
PVC Adaptor Socket Plain	VADPTSOP/015 VADPTSOP/020 VADPTSOP/025 VADPTSOP/032 VADPTSOP/040 VADPTSOP/050	20 25 32 40 50 63	1/2" 3/4" 1" 1 1/4" 1 1/2" 2"

Metric PVC to SCH80 PVC Socket

# THE SMARTER CHOICE.

## PLASTIC VALVES

### FOR WATER APPLICATIONS

FIP DOUBLE UNION PVC BALL VALVES					
	Code	Size		Code	Size
<b>VE Ball Valve BSP Ends</b>	VFIPVEBSP/015	15mm		VFIPVE/015	15mm
	VFIPVEBSP/020	20mm		VFIPVE/020	20mm
	VFIPVEBSP/025	25mm		VFIPVE/025	25mm
	VFIPVEBSP/032	32mm		VFIPVE/032	32mm
	VFIPVEBSP/040	40mm		VFIPVE/040	40mm
	VFIPVE/BSP050	50mm		VFIPVE/050	50mm
	VFIPVEBSP/065	65mm		VFIPVE/065	65mm
	VFIPVEBSP/080	80mm		VFIPVE/080	80mm
	VFIPVE/BSP100	100mm		VFIPVE/100	100mm
<b>BSP Valve End</b>	VAFIPBSP/015	15mm	<b>VE Ball Valve Socketed Ends</b>	VAFIPSOCKET/015	15mm
	VAFIPBSP/020	20mm		VAFIPSOCKET/020	20mm
	VAFIPBSP/025	25mm		VAFIPSOCKET/025	25mm
	VAFIPBSP/032	32mm		VAFIPSOCKET/032	32mm
	VAFIPBSP/040	40mm		VAFIPSOCKET/040	40mm
	VAFIPBSP/050	50mm		VAFIPSOCKET/050	50mm
	VAFIPBSP/065	65mm		VAFIPSOCKET/065	65mm
	VAFIPBSP/080	80mm		VAFIPSOCKET/080	80mm
	VAFIPBSP/100	100mm		VAFIPSOCKET/100	100mm

The FIP VE ball valves are ideally suited to conveying water and harmless fluids. The valves are full bore, with double unions and a safe block design offering fully adjustable removable seats. Ball seats are made from PE-PTFE technopolymer with EPDM O-rings. Valves are available with a PVC body, imperial socket and BSP threaded ends.

+GF+ 565 BUTTERFLY VALVES					
	Code	Size		Code	Size
<b>Wafer Style EPDM Seat with Lever Handle</b>	VGF565/050	50mm	<b>Wafer Style FPM Seat with Lever Handle</b>	VGF565FPM/050	50mm
	VGF565/065	65mm		VGF565FPM/065	65mm
	VGF565/080	80mm		VGF565FPM/080	80mm
	VGF565/100	100mm		VGF565FPM/100	100mm
	VGF565/125	125mm		VGF565FPM/125	125mm
	VGF565/150	150mm		VGF565FPM/150	150mm
	VGF565/200	200mm		VGF565FPM/200	200mm
<b>Wafer Style EPDM Seat Bare Shaft</b>	VGF565BS/050	50mm	<b>Wafer Style FPM Seat Bare Shaft</b>	VGF565FPMBS/050	50mm
	VGF565BS/065	65mm		VGF565FPMBS/065	65mm
	VGF565BS/080	80mm		VGF565FPMBS/080	80mm
	VGF565BS/100	100mm		VGF565FPMBS/100	100mm
	VGF565BS/125	125mm		VGF565FPMBS/125	125mm
	VGF565BS/150	150mm		VGF565FPMBS/150	150mm
	VGF565BS/200	200mm		VGF565FPMBS/200	200mm
	VGF565BS/250	250mm		VGF565FPMBS/250	250mm
	VGF565BS/300	300mm		VGF565FPMBS/300	300mm

The new Butterfly Valve 565 is made out of high-quality plastics that protect it from corrosion and abrasion, and comes in a wafer design with the same installation length as metal solutions (DN50 – DN300). Offering lockable ergonomic lever, standard 5° ratchet setting and optional electric position indicator, along with Data-Matrix-Code and interface for flexible automation (ISO 5211). Fiber reinforced housing and inner disc: PVDF disc and a EPDM or FKM sleeve

# PLASTIC VALVES

## FOR WATER APPLICATIONS

### SPEARS PVC SWING CHECK VALVE

	Code	Size		Code	Size
<b>Spears PVC Swing Check Valve, White</b>	S1520-07	20mm		S1580-05	15mm
	S1520-10	25mm		S1580-07	20mm
	S1520-12	32mm		S1580-10	25mm
	S1520-15	40mm		S1580-15	40mm
	S1520-20	50mm		S1580-20	50mm
	S1520-30	80mm		S1580-30	80mm
	S1520-40	100mm		S1580-40	100mm
	S1520-60	150mm			
					
Socketed			Socketed		

PVC utility swing check valves are ideally suited for a range of applications. Available either with or without a spring, they are an economic solution for ensuring flow in one direction only.

### PHILMAC VALVES

	Code	Size		Code	Size
<b>Philmac Ball Valve</b>	PHBV/015	15mm		PHNV/020	20mm
	PHBV/020	20mm		PHNV/025	25mm
	PHBV/025	25mm		PHNV/032	32mm
	PHBV/032	32mm		PHNV/040	40mm
	PHBV/040	40mm		PHNV/050	50mm
	PHBV/050	50mm			
					

Philmac valves are manufactured from glass reinforced polypropylene (GRP). Their simple rugged construction makes them ideally suited for use above or below ground in irrigation and water distribution lines.

# THE SMARTER CHOICE.

## +GF+ ELECTRICALLY ACTUATED VALVES

### FOR CHEMICAL PROCESS APPLICATIONS

#### EA 546 STANDARD ELECTRIC ACTUATOR ASSEMBLY

	Code	Size (NB)		Code	Size (NB)		
	<b>EA15 230 VOLT</b>	EA15546-230V/15 EA15546-230V/20-25 EA15546-230V/32-40 EA15546-230V/50	15mm 20-25mm 32-40mm 50mm		<b>EA15 24 VOLT (AC or DC)</b>	EA15546-24V/15 EA15546-24V/20-25 EA15546-24V/32-40 EA15546-24V/50	15mm 20-25mm 32-40mm 50mm
	<b>EA25 230 VOLT</b>	EA25546-230V/15 EA25546-230V/20-25 EA25546-230V/32-40 EA25546-230V/50	15mm 20-25mm 32-40mm 50mm		<b>EA25 24 VOLT (AC or DC)</b>	EA25546-24V/15 EA25546-24V/20-25 EA25546-24V/32-40 EA25546-24V/50	15mm 20-25mm 32-40mm 50mm
	<b>EA45/120 230 VOLT</b>	EA45546-230V/65 EA120546-230V/80 EA120546-230V/100	65mm 80mm 100mm		<b>EA45/120 24 VOLT (AC or DC)</b>	EA45546-24V/65 EA120546-24V/80 EA120546-24V/100	65mm 80mm 100mm

Includes EA15/25/45/120 Actuator, Drive Adaptors and Multifunction unit used for the 546 Ball Valves.

**VALVE IS NOT INCLUDED**

#### EA 543 STANDARD ELECTRIC ACTUATOR ASSEMBLY

	Code	Size (NB)		Code	Size (NB)		
	<b>EA25 230 VOLT</b>	EA25543-230V/15 EA25543-230V/20-25 EA25543-230V/32-40 EA25543-230V/50	15mm 20-25mm 32-40mm 50mm		<b>EA25 24 VOLT (AC or DC)</b>	EA25543-24V/15 EA25543-24V/20-25 EA25543-24V/32-40 EA25543-24V/50	15mm 20-25mm 32-40mm 50mm

Includes EA25 Actuator and Multifunction unit to assemble the 543 3Way Ball Valves up to 50mm.

**VALVE IS NOT INCLUDED**

#### EA 567 STANDARD ELECTRIC ACTUATOR ASSEMBLY

	Code	Size (NB)		Code	Size (NB)		
	<b>EA45/120/250 230 VOLT</b>	EA45567-230V/50-65 EA120567-230V/80 EA120567-230V/100-125 EA250567-230V/150	50-65mm 80mm 100-125mm 150mm		<b>EA45/120/250 24 VOLT (AC or DC)</b>	EA45567-24V/50-65 EA120567-24V/80 EA120567-24V/100-125 EA250567-24V/150	50-65mm 80mm 100-125mm 150mm

Includes EA45/120 Actuator and Adaptor to assemble the 567 Valves up to 200mm.

**VALVE IS NOT INCLUDED**

#### SMART ELECTRIC ACTUATORS TYPE DEA25-250

The smart electric actuator is the first product that can be controlled fully by an app. Furthermore it is not only smart and excellently equipped, it also features very high peak torques ranging from 25 Nm to 250 Nm. Therefore, it is able to automate a wide range of valves.

The actuators can be installed on any common valves with interface according to ISO 5211.

Accessories allow using them not only as an on/off actuator but also in continuous operation.



#### E-DIASTAR FOR TYPES 514, 515 AND 517

The e-DIASTAR system is based on the diaphragm Valve Type 514 (threaded sockets) and Type 515 (spigots), on which the electric actuator EA-MT is mounted. The diaphragm Valve Type 517 (flange) can be retrofitted after installation. The electric actuator EA-MT opens and closes the diaphragm valve fully automatic.

The e-DIASTAR is used to regulate, close and control volume flows automatically. Especially when transporting contaminated, aggressive or abrasive media, this type of valve has decisive advantages thanks to its simple function and optimized construction. Only the valve body and the replaceable diaphragm are in contact with the medium.



# +GF+ ELECTRICALLY ACTUATED VALVES

## FOR CHEMICAL PROCESS APPLICATIONS

Asmuss build in-house actuation assemblies and can customise to meet your exacting needs, including a wide range of additional accessories. For ease of pricing and ordering we have created a basic actuator assembly kit featuring the appropriate actuator and the adaptor parts to assemble and test a complete actuated valve.

**All you have to do is select the assembly and add the valve from our manual price list to get your pricing and for ordering purposes. If you require additional functionality, please contact our office.**

### ELECTRIC ACTUATION

The +GF+ Electric Actuators type EA15, EA25, EA45, EA120 and EA250 are not only well equipped, they are also characterized by very high peak torques from 25 Nm to 250 Nm making them able to automate a wide range of valves. The electric actuators serve to operate valves with a rotating angle of 90° to 180°. The actuators can be installed on any common valves with interfaces according to ISO 5211.

Accessories are available to operate valves in continuous operation.

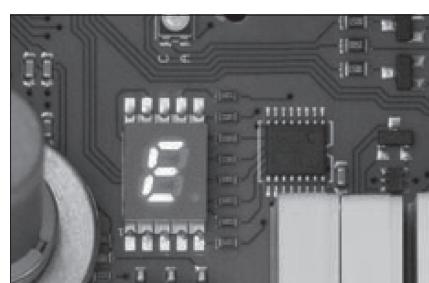
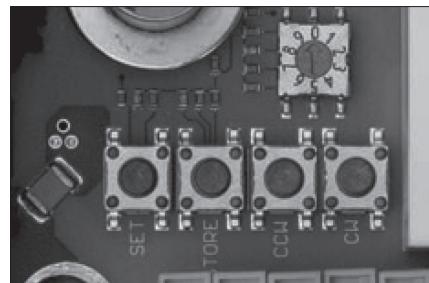
#### Features:

- LED Feedback - Reading of the actuator position as well under difficult light conditions
- Integrated feedback
- Electric position feedback for position Open/Close/Middle
- Integrated heater with dial for temperature
- 7-Segment error display
- Position sensor with easy re-adjustment teach-buttons to manually reset open and closed position
- Profibus DP-V0 compatible
- Simple selection and assembly of accessory parts



#### Related Documents:

- Manual Valves Price List
- GF EA 15-250 Electric Actuator Handbook



EA15, EA25, EA45, EA120, EA250	
Nominal Voltage	AC:100-230V, AC/DC: 24V, 50/60 Hz
Nominal Voltage Tolerance	+/- 15%
Protection class	IP 65 according to EN60529
Pollution degree	2 according to EN61010-1
Overload protection	Current/time dependent, resetting
Over voltage category	II
Ambient temperature	-10 - +50 deg C
Allowable humidity	Max 90 % relative humidity, non-condensing
Housing material	GF PP for Chemical Resistance

	EA15	EA25	EA45	EA120	EA250
Nominal Power	AC 30VA - 100-230V AC/DC 35VA - 24 V	AC 35VA - 100-230V AC/DC 40VA - 24 V	AC 55VA - 100-230V AC/DC 60VA - 24 V	AC 50VA - 100-230V AC/DC 55VA - 24 V	AC 60VA - 100-230V AC/DC 65VA - 24 V
Nominal Torque Mdn (peak)	10(20)Nm	10(25)Nm	20(45)Nm	60(120)Nm	100(250)Nm
Duty Cycle	40%@ 25 deg C/15min	100%	50%	50%	35%
Cycle times/90 deg at Mdn	5 s	5 s	6 s	15 s	20 s
Flange Fittings (Mounting Plate)	F05	F05	F05	F05	F07
Tested cycles (at 20deg C & Mdn)	150,000	250,000	100,000	100,000	75,000
Weight	1.85 kg	2.1kg	2.2 kg	3.6 kg	5.0 kg
Actuating Angle	Max 355 deg set to 90 deg				

# THE SMARTER CHOICE.

## +GF+ PNEUMATICALLY ACTUATED VALVES

### FOR CHEMICAL PROCESS APPLICATIONS

Asmuss build in-house actuation assemblies and can customise to meet your exacting needs, including a wide range of additional accessories. For ease of pricing and ordering we have created a basic actuator assembly kit featuring the appropriate actuator and the adaptor parts to assemble and test a complete actuated valve.

**All you have to do is select the assembly and add the valve from our manual price list to get your pricing and for ordering purposes. If you require additional functionality, please contact our office.**

#### PA 546 STANDARD PNEUMATIC ACTUATOR ASSEMBLY

	Code	Size (NB)
<b>PA11</b> <b>Double Acting</b>	PA11546DA/15	15mm
	PA11546DA/20-25	20-25mm
<b>PA21</b> <b>Double Acting</b>	PA21546DA/32-40	32-40mm
	PA21546DA/50	50mm
<b>PA40</b> <b>Double Acting</b>	PA40546DA/80	80mm
<b>PA45</b> <b>Double Acting</b>	PA45546DA/100	100mm
<b>PA11</b> <b>Fail Close</b>	PA11546/15	15mm
	PA11546/20-25	20 -25mm
<b>PA21</b> <b>Fail Close</b>	PA21546/32-40	32- 40mm
	PA21546/50	50mm
<b>PA40</b> <b>Fail Close / Fail Open</b>	PA40546/80	80mm
	PA40546/100	100mm

#### PA 567 STANDARD PNEUMATIC ACTUATOR ASSEMBLY

	Code	Size (NB)
<b>PA30</b> <b>Double Acting</b>	PA30567DA/50-65	50-65mm
<b>PA35</b> <b>Double Acting</b>	PA35567DA/80	80mm
<b>PA40</b> <b>Double Acting</b>	PA40567DA/100	100mm
<b>PA50</b> <b>Double Acting</b>	PA50567DA/150	150mm
<b>PA55</b> <b>Double Acting</b>	PA55567DA/200	200mm
<b>PA30</b> <b>Fail Close / Fail Open</b>	PA30567/50-65	50-65mm
<b>PA35</b> <b>Fail Close / Fail Open</b>	PA35567/80	80mm
<b>PA40</b> <b>Fail Close / Fail Open</b>	PA40567/100	100mm
<b>PA50</b> <b>Fail Close / Fail Open</b>	PA50567/150	150mm
<b>PA55</b> <b>Fail Close / Fail Open</b>	PA55567/200	200mm



Includes PA11/21/40/45 Actuator, Drive Adaptors and Multifunction unit used for the 546 Ball Valves.

**VALVE IS NOT INCLUDED**



Includes PA30/35/40/50/55 Actuator, Drive Adaptors and Multifunction unit used for the 567 Ball Valves.

**VALVE IS NOT INCLUDED**

## +GF+ PNEUMATICALLY ACTUATED 3 WAY- BALL VALVES



The 285-288 model incorporates the +GF+ 543 3-Way Bal Valve and a compact pneumatic actuator available in either L or T-Port configuration. The L-Port configuration normally requires a 2 position 90 degree actuator whilst the T-Port valve may require a 3 position Electric Actuator. Available Fail Safe Close, Fail Safe Open or Double Acting. A visual position indicator shows valve position. Please contact us for the valve material and the actuator configuration you require.

*The 543 Bal Valves are available in PVC, CPVC, ABS, PP & PVDF.*

**Refer to the 543+GF+ Brochure for more configuration details.**

# +GF+ PNEUMATICALLY ACTUATED VALVES

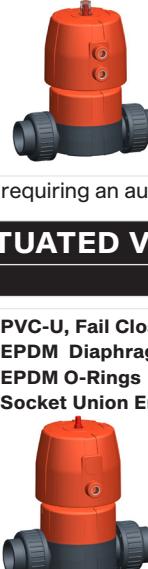
## FOR CHEMICAL PROCESS APPLICATIONS

### +GF+ DIASTAR 10 ACTUATED VALVE

	Code	Size (NB)		Code	Size (NB)	
<b>PVC-U, Fail Close EPDM Diaphragm EPDM O-Rings Socket Union Ends</b>	VGF10FC/015 VGF10FC/020 VGF10FC/025 VGF10FC/032 VGF10FC/040 VGF10FC/050	15mm 20mm 25mm 32mm 40mm 50mm		<b>PVC-U, Fail Close PTFE/EPDM Diaphragm FPM O-Rings Socket Union Ends</b>	VGF10PTFEFC/015 VGF10PTFEFC/020 VGF10PTFEFC/025 VGF10PTFEFC/032 VGF10PTFEFC/040 VGF10PTFEFC/050	15mm 20mm 25mm 32mm 40mm 50mm

This range is optimally suited for all standard applications up to 10 Bar requiring an automated interface to the processing plant.

### +GF+ DIASTAR 6 ACTUATED VALVE

		Code	Size (NB)
The Diastar 6 is a cost effective solution for operation pressures up to 6 Bar. It combines high quality with basic actuator functions. Its compact construction is also an advantage. Available in a range of materials with the fail close only.		<b>PVC-U, Fail Close EPDM Diaphragm EPDM O-Rings Socket Union Ends</b>	VGF06FC/015 VGF06FC/020 VGF06FC/025 VGF06FC/032 VGF06FC/040 VGF06FC/050
			15mm 20mm 25mm 32mm 40mm 50mm

### OPTIONS & ACCESSORIES

	Manual Overide				Pneumatically Operated		
Type	514	515	517	519	Diastar 6	Diastar 10	Diastar 16
Description	True Union Type	Spigot	Flange	Branched Valve			
Dimensions				DN15 - DN50			
Pressure Rating		PN10 / PN16*			PN6	PN10	PN16
Functions	FC				✓	✓	✓
	FO					✓	on request
	DA					✓	on request
Materials	PVC-U	✓	✓	✓	✓	✓	on request
	PVC-C	✓	✓	✓	✓	✓	on request
	ABS	✓	✓		✓	✓	on request
	PP-H	✓	✓	✓	✓	✓	on request
	PP-n		✓			✓	on request
	PVDF	✓	✓	✓	✓	✓	✓
Connection Type	PVDF-HP	✓	✓		✓	✓	✓
	Socket	✓			✓	✓	✓
	Spigot	✓	✓		✓	✓	✓
	Flange			✓	✓	✓	✓
	Threaded Socket	✓			✓	✓	✓
Diaphragm Materials	EPDM	✓	✓	✓	✓	✓	✓
	PTFE/EPDM	✓	✓	✓		✓	✓
	FPM	✓	✓	✓	on request	on request	on request
	NBR	✓	✓	✓	on request	on request	on request
Accessories	Feedback	✓	✓	✓	✓	✓	✓
	Manual Overide					✓	✓
	Stroke Limiter					✓	✓
	Positioner					✓	✓
	Bus Connection				on request	✓	✓

# THE SMARTER CHOICE.

**+GF+ PP-H**

## POLYPROPYLENE PIPING SYSTEM

The +GF+ PP-H piping system is renowned for its excellent resistance to a wide range of chemicals, and its ability to withstand temperatures up to 95°C.

Manufactured from Polypropylene homopolymer PP-H 100 beta ( $\beta$ ) - nucleated, the +GF+ PP-H system is designed specifically for industrial applications. It differs from other types of polypropylene in that it has a very fine structure and significantly higher impact strength. This high degree of crystallinity ensures excellent chemical resistance, which is further improved by the use of titanium dioxide pigment.

The +GF+ PP-H system, is joined using either socket fusion or infra-red (IR) welding for high purity applications. Fittings for both jointing methods are detailed within this price list.

**Related Documents:** • +GF+ Aquatap Brochure

PP-H PIPE			
	Code	Size OD (mm)	Wall Thickness
Pipe, SDR11, PN10	167480710	16mm	1.8mm
	167480711	20mm	1.9mm
	167480712	25mm	2.3mm
	167480713	32mm	2.9mm
	167480714	40mm	3.7mm
	167480715	50mm	4.6mm
	167480716	63mm	5.8mm
	167480717	75mm	6.8mm
	167480718	90mm	8.2mm
Supplied in 5 metre lengths	167480719	110mm	10.0mm

SOCKET FUSION FITTINGS					
	Code	Size OD (mm)		Code	Size OD (mm)
Plain Socket	727910105	16	Elbow 90°	727100105	16
	727910106	20		727100106	20
	727910107	25		727100107	25
	727910108	32		727100108	32
	727910109	40		727100109	40
	727910110	50		727100110	50
	727910111	63		727100111	63
	727910112	75		727100112	75
	727910113	90		727100113	90
	727910114	110		727100114	110
Equal Tee	727200105	16	Elbow 45°	727150105	16
	727200106	20		727150106	20
	727200107	25		727150107	25
	727200108	32		727150108	32
	727200109	40		727150109	40
	727200110	50		727150110	50
	727200111	63		727150111	63
	727200112	75		727150112	75
	727200113	90		727150113	90
	727200114	110		727150114	110
Plain Cap	727960105	16	Elbow 90° Plain/ Threaded	727100206	20x $\frac{1}{2}$ "
	727960106	20		727100207	25x $\frac{3}{4}$ "
	727960107	25		727100208	32x1"
	727960108	32		727100209	40x1 $\frac{1}{4}$ "
	727960109	40			
	727960110	50			
	727960111	63			
	727960112	75			
	727960113	90			
	727960114	110			

+GF+ PP-H

# POLYPROPYLENE PIPING SYSTEM

SOCKET FUSION FITTINGS						
	Code	Size OD (mm)			Code	Size OD (mm)
<b>Reducing Bush</b>	727910334	20x16		<b>Adaptor Nipple Plain/ Threaded</b>	727910505	16x $\frac{3}{8}$ "
	727910337	25x20			727910506	20x $\frac{1}{2}$ "
	727910342	32x20			727910507	25x $\frac{3}{4}$ "
	727910341	32x25			727910508	32x1"
	727910347	40x25			727910509	40x1 $\frac{1}{4}$ "
	727910346	40x32			727910510	50x1 $\frac{1}{2}$ "
	727910355	50x20			727910511	63x2"
	727910354	50x25		<b>BSP Thread</b>		
	727910353	50x32		<b>Stub Flange</b>	727790206	20
	727910352	50x40			727790207	25
	727910361	63x25			727790208	32
	727910360	63x32			727790209	40
	727910359	63x40			727790210	50
	727910358	63x50			727790211	63
	727910364	75x63			727790212	75
	727910371	90x63			727790213	90
	727910370	90x75			727790214	110
	727910376	110x90				
<b>Socket Union EPDM</b>	727510155	16		<b>Adaptor Socket Plain/ Threaded</b>	727910205	20x $\frac{3}{8}$ "
	727510156	20			727910206	20x $\frac{1}{2}$ "
	727510157	25			727910207	25x $\frac{3}{4}$ "
	727510158	32			727910208	32x1"
	727510159	40			727910209	40x1 $\frac{1}{4}$ "
	727510160	50			727910210	50x1 $\frac{1}{2}$ "
	727510161	63			727910211	63x2"
	727510162	75		<b>BSP Thread</b>		
	727510163	90		<b>Equal Tee Threaded Branch</b>	727200206	20x $\frac{1}{2}$ "
	727510164	110			727200207	25x $\frac{3}{4}$ "
<b>Socket Union FPM</b>	727520155	16			727200208	32x1"
	727520156	20			727200209	40x1 $\frac{1}{4}$ "
	727520157	25		<b>BSP Thread</b>		
	727520158	32		<b>Hosetail S/F Spigot- Barb</b>	727960406	20
	727520159	40			727960407	25
	727520160	50			727960408	32
	727520161	63			727960409	40
	727520162	75			727960410	50
	727520163	90			727960411	63
	727520164	110				
<b>Reducing Bush Plain/ Threaded</b>	727910433	20x $\frac{1}{4}$ "				
	727910434	20x $\frac{3}{8}$ "				
	727910437	25x $\frac{1}{2}$ "				
	727910441	32x $\frac{3}{4}$ "				
	727910446	40x1"				
	727910452	50x1 $\frac{1}{4}$ "				
			<b>BSP Thread</b>			

# THE SMARTER CHOICE.

**+GF+ PP-H**

## POLYPROPYLENE PIPING SYSTEM

### INFRARED (IR) FITTINGS

	Code	Size OD (mm)		Code	Size OD (mm)
<b>Elbow 90°</b>	727108506 727108507 727108508 727108509 727108510 727108511	20 25 32 40 50 63	<b>Stub Flange</b>	727798506 727798507 727798508 727798509 727798510 727798511	20 25 32 40 50 63
<b>Elbow 45°</b>	727158506 727158507 727158508 727158509 727158510 727158511	20 25 32 40 50 63	<b>Socket Union FPM</b>	727528506 727528507 727528508 727528509 727528510 727528511	20 25 32 40 50 63
<b>Socket Union EPDM</b>	727518506 727518507 727518508 727518509 727518510 727518511	20 25 32 40 50 63	<b>Cap</b>	727968931 727968932 727968933 727968934 727968935 727968936	20 25 32 40 50 63
<b>Reducer</b>	727908537 727908542 727908541 727908548 727908547 727908546 727908554 727908553 727908552 727908560 727908559 727908558	25x20 32x20 32x25 40x20 40x25 40x32 50x25 50x32 50x40 63x32 63x40 63x50	<b>Adaptor Socket Plain/ Threaded</b>	727910266 727910267 727910268 727910269 727910270 727910271	20x½" 25x¾" 32x1" 40x1¼" 50x1½" 63x2"
<b>Equal Tee</b>	727208506 727208507 727208508 727208509 727208510 727208511	20 25 32 40 50 63	<b>BSP Thread</b>	<b>Adaptor Nipple Plain/ Threaded</b>	20x½" 25x¾" 32x1" 40x1¼" 50x1½" 63x2"

## +GF+ PVDF

### POLYVINVLIDENFLUORIDE PIPING SYSTEM

The +GF+ PVDF piping system is renowned for its outstanding mechanical, physical and chemical characteristics and its ability to withstand a very wide temperature range from -20°C to 140°C.

Polyvinlidenfluoride belongs to the class of fluorine polymers, that include polytetrafluor ethylene (PTFE). PTFE is characterized by extreme temperature resistance and the best chemical resistance of all plastics. Unfortunately it is not workable on a thermoplastic basis, which provides limited use as a piping system. In comparison PVDF combines the advantage of good workability in thermoplastic piping systems, while retaining the various advantages of PTFE. The Fluorine content of PVDF is 59%

This high end piping system is ideally suited for the delivery of pharmaceutical grade purified water (PW) and DI water, using hot water, steam chemical or ozone sanitisation. Due to its excellent chemical resistance it is widely used in chemical distribution systems.

PVDF PIPE			
	Code	Size OD (mm)	Wall Thickness
<b>Pipe, PN16*</b>	PPVDF/016	16mm	1.9mm
	PPVDF/020	20mm	1.9mm
	PPVDF/025	25mm	1.9mm
	PPVDF/032	32mm	2.4mm
	PPVDF/040	40mm	2.4mm
	PPVDF/050	50mm	3.0mm
	PPVDF/063	63mm	3.0mm
	PPVDF/075	75mm	4.3mm
	PPVDF/090	90mm	4.3mm
	PPVDF/110	110mm	5.3mm

Sold per metre, available in 5 metre lengths

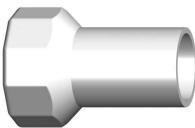
PVDF PN16* INFRA RED (IR) WELDED FITTINGS					
	Code	Size OD (mm)		Code	Size OD (mm)
<b>90° Bend</b>	735018706	20	<b>Equal Tee</b>	735208606	20
	735018707	25		735208607	25
	735018708	32		735208608	32
	735018709	40		735208609	40
	735018710	50		735208610	50
	735018711	63		735208611	63
	735018712	75		735208612	75
	735018713	90		735208613	90
	735018714	110		735208614	110
<b>90° Elbow</b>	735108606	20	<b>Socket Union FPM</b>	735528606	20
	735108607	25		735528607	25
	735108608	32		735528608	32
	735108609	40		735528609	40
	735108610	50		735528610	50
	735108611	63		735528611	63
<b>45° Elbow</b>	735158606	20		735528612	75
	735158607	25		735528613	90
	735158608	32		735528614	110
	735158609	40	<b>Reducer</b>	735908637	25x20
	735158610	50		735908642	32x20
	735158611	63		735908641	32x25
	735158612	75		735908646	40x32
	735158613	90		735908654	50x25
	735158614	110		735908653	50x32

# THE SMARTER CHOICE.

**+GF+ PVDF**

## POLYVINYLIDENFLUORIDE PIPING SYSTEM

### PVDF PN16\* INFRA RED (IR) WELDED FITTINGS

	Code	Size OD (mm)			Code	Size OD (mm)
<b>Stub Flange DIN</b> 	735798806	20		<b>Female Adaptor Fitting BSP</b> 	735910285	20x $\frac{3}{8}$ "
	735798807	25			735910286	20x $\frac{1}{2}$ "
	735798808	32			735910287	25x $\frac{3}{4}$ "
	735798809	40			735910288	32x1"
	735798810	50			735910289	40x $\frac{1}{4}$ "
	735798811	63			735910290	50x $\frac{1}{2}$ "
	735798812	75			735910291	63x2"
	735798813	90				
	735798814	110				
<b>Stub Flange ANSI</b> 	735798857	25		<b>Male Adaptor Fitting BSP</b> 	735910555	20x $\frac{3}{8}$ "
	735798858	32			735910556	20x $\frac{1}{2}$ "
	735798859	40			735910557	25x $\frac{3}{4}$ "
	735798860	50			735910558	32x1"
	735798861	90			735910559	40x $\frac{1}{4}$ "
					735910560	50x $\frac{1}{2}$ "
					735910561	63x2"

### SOCKET FUSION FITTINGS AVAILABLE ON REQUEST

\* based on water @ 20°C

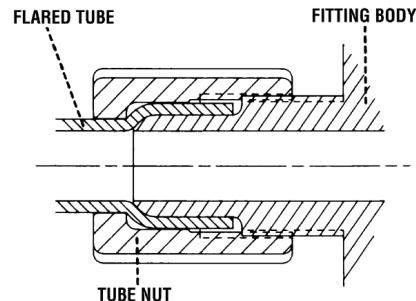
# PFA

## TUBE AND FITTINGS

This industrial grade flexible tubing system is manufactured PFA. Although similar to PTFE, PFA is mechanically superior, has 1/10th the creep characteristics, and is transparent. The most common usage for this material is chemical dosing, where transportation of highly corrosive chemicals are used.

PFA fittings are specifically designed, tested and characterized to work together with industrial grade PFA tube. Fittings are connected to the tube by first heating the end of the tube with a hot air gun and expanding or flaring the end of the tube using a flaring mandrel.

This flared end is then inserted into the fitting body before tightening the nut.



### Assembly Instructions

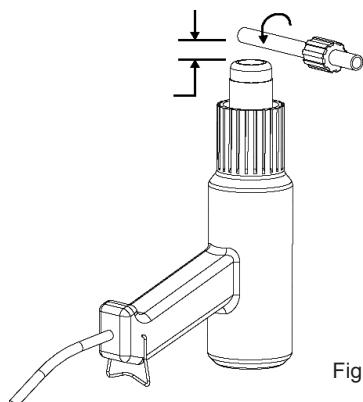


Figure 1

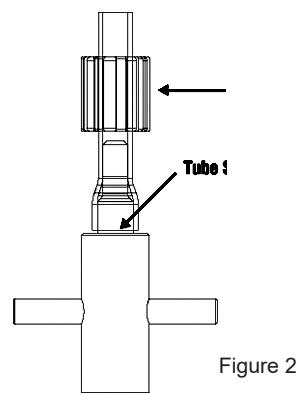


Figure 2

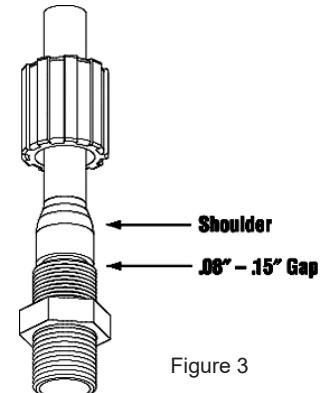


Figure 3

### Heat Flaring Instructions

The flaring process provides a permanent expansion (flare) of the tubing end, allowing insertion of the fitting body. Proper tube flaring and fitting assembly results in a very secure tubing connection.

- Set the hot air gun on "High". Hold the PFA tubing end flush with the heater edge and 1/2" to 3/4" above the heater (see Figure 1) and slowly rotate the tubing 360° for 25 seconds, or until a fine, clear line appears around the tubing. Note: It is very important to fully rotate the tubing over the heat source so all surface areas receive an equal amount of heat. Uniform heating is essential to making a good flare.
- Remove the PFA tubing from the heat source. Immediately push the flaring mandrel (see Figure 2) into the tubing until the end of the tubing reaches the tube stop.
- Firmly hold the tubing onto the mandrel for 20 seconds
- Let the flared tubing continue to cool on the mandrel for 2 minutes for 3/8" tubing or 3 minutes for 1/2" and 3/4" tubing.
- The flaring process is now complete and the mandrel may be removed from the tube.
- Push the flared tubing end onto the fitting body until the end of the fitting body contacts the flare shoulder of the tube (see Figure 3). The maximum gap between the tube end and end of threads should be .08 -.15".
- Tighten the nut onto the fitting body until handtight.

PFA INDUSTRIAL GRADE TUBE			
	Code	Size (OD)	ID
PFA Tube	TPFATUBE/008	1/4"	3.95mm
	TPFATUBE/010	5/16"	6.33mm
	TPFATUBE/015	1/2"	9.5mm
	TPFATUBE/020	3/4"	15.85mm
	TPFATUBE/025	1"	22.2mm

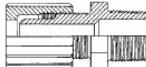
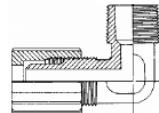
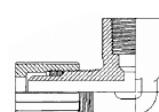
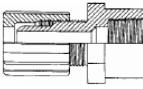
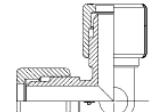
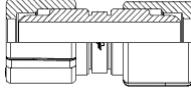
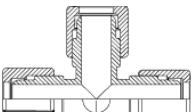
Sold by the metre, available in coil lengths up to 100 metres

# THE SMARTER CHOICE.

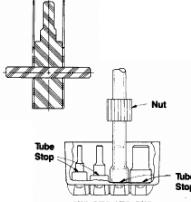
## PFA

### TUBE & FITTINGS

#### PFA FLARE FITTINGS

	Code	Size (OD x NPT)		Code	Size (OD x NPT)
<b>Male Adaptor</b>  	FPPFAMADPT/008x1/4	1/4" x 1/4"	<b>Male Elbow</b>  	FPPFAMEL90/008x1/4	1/4" x 1/4"
	FPPFAMADPT/010x1/2	5/8" x 1/2"		FPPFAMEL90/010x1/4	5/8" x 1/4"
	FPPFAMADPT/010x1/4	5/8" x 1/4"		FPPFAMEL90/010x3/8	5/8" x 3/8"
	FPPFAMADPT/010x3/8	5/8" x 3/8"		FPPFAMEL90/015x1/2	1/2" x 1/2"
	FPPFAMADPT/015x1/2	1/2" x 1/2"		FPPFAMEL90/015x3/8	1/2" x 3/8"
	FPPFAMADPT/015x1/4	1/2" x 1/4"		FPPFAMEL90/020x1/2	3/4" x 1/2"
	FPPFAMADPT/015x3/8	1/2" x 3/8"		FPPFAMEL90/020x3/4	3/4" x 3/4"
	FPPFAMADPT/020x1/2	3/4" x 1/2"		FPPFAMEL90/020x3/8	3/4" x 3/8"
	FPPFAMADPT/020x3/4	3/4" x 3/4"		FPPFAMEL90/025x1	1" x 1"
	FPPFAMADPT/025x1	1" x 1"		FPPFAMEL90/025x1/2	1" x 1/2"
<b>NPT Thread</b>	FPPFAMADPT/025x1/2	1" x 1/2"		FPPFAMEL90/025x3/4	1" x 3/4"
	FPPFAMADPT/025x3/4	1" x 3/4"	<b>Female Elbow</b>  	FPFAFEL90/008x1/4	1/4" x 1/4"
	FPPFAMADPT/025x3/4	1" x 3/4"		FPFAFEL90/010x1/4	5/8" x 1/4"
<b>Female Adaptor</b>  	FPFAFMDPT/008x1/4	1/4" x 1/4"		FPFAFEL90/010x3/8	5/8" x 3/8"
	FPFAFMDPT/010x1/4	5/8" x 1/4"		FPFAFEL90/015x1/2	1/2" x 1/2"
	FPFAFMDPT/010x3/8	5/8" x 3/8"		FPFAFEL90/015x3/8	1/2" x 3/8"
	FPFAFMDPT/015x1/2	1/2" x 1/2"		FPFAFEL90/020x1/2	3/4" x 1/2"
	FPFAFMDPT/015x3/8	1/2" x 3/8"		FPFAFEL90/020x3/4	3/4" x 3/4"
	FPFAFMDPT/020x1/2	3/4" x 1/2"		FPFAFEL90/020x3/8	3/4" x 3/8"
	FPFAFMDPT/020x3/4	3/4" x 3/4"		FPFAFEL90/025x1	1" x 1"
	FPFAFMDPT/025x1	1" x 1"		FPFAFEL90/025x1/2	1" x 1/2"
	FPFAFMDPT/025x1/2	1" x 1/2"		FPFAFEL90/025x3/4	1" x 3/4"
	FPFAFMDPT/025x3/4	1" x 3/4"	<b>Union Elbow</b>  	FPFAEL90/008	1/4"
<b>Straight Union</b>  	FPFASOUN/008	1/4"		FPFAEL90/010	5/8"
	FPFASOUN/010	5/8"		FPFAEL90/015	1/2"
	FPFASOUN/015	1/2"		FPFAEL90/020	3/4"
	FPFASOUN/020	3/4"		FPFAEL90/025	1"
	FPFASOUN/025	1"			
<b>Male Adaptor with BSP thread</b>	FPPFAMADPTB-SP/015X1/2	1/2" x 1/2"	<b>Union Tee</b>  	FPPFATEE/008	1/4"
	FPPFAMADPTB-SP/015X3/4	1/2" x 3/4"		FPPFATEE/010	5/8"
	FPPFAMADPTB-SP/020X1/2	3/4" x 1/2"		FPPFATEE/015	1/2"
	FPPFAMADPTB-SP/020X3/4	3/4" x 3/4"		FPPFATEE/020	3/4"
	FPPFAMADPTBSP/025X1	1" x 1"		FPPFATEE/025	1"

#### PFA TOOLING

	Code	Size (OD)
<b>Flare Tools</b>  	FPFAFLARETOOL/008	1/4"
	FPFAFLARETOOL/010	5/8"
	FPFAFLARETOOL/015	1/2"
	FPFAFLARETOOL/020	3/4"
	FPFAFLARETOOL/025	1"

#### PFA VALVING



A RANGE OF PFA VALVES  
ARE AVAILABLE ON REQUEST

# PIPE CLIPS, SPACERS AND GASKETS

## FOR PLASTIC PIPING SYSTEMS

### METRIC PIPE CLIPS

	Code	Size (OD)
PP GF061H Pipe Clip ISO/DIN 546	167061003	10mm
	167061004	12mm
	167061035	16mm
	167061036	20mm
	167061037	25mm
	167061038	32mm
	167061039	40mm
	167061040	50mm
	167061041	63mm
	167061012	75mm
	167061013	90mm
	167061014	110mm



### IMPERIAL PIPE CLIPS

	Code	Size (NB)
PP GF061H Pipe Clip BS/ASTM GF546	167061086	15mm
	167061087	20mm
	167061088	25mm
	167061089	32mm
	167061090	40mm
	167061091	50mm
	167061112	65mm
	167061013	90mm
	167061114	100mm



### SPACERS

	Code	Size (OD)
PP GF061 Spacer	167061155	16mm-¾"
	167061156	20mm - ½"
	167061157	25mm - ¾"
	167061158	32mm - 1"
	167061159	40mm - 1¼"
	167061160	50mm - 1½"
	167061161	63mm - 2"
	167061162	75mm - 2½"
	167061163	90mm - 3"
	167061164	110mm - 4"

Spacers are designed to be used with the +GF+ 061 pipe clip



### COBRA CLIPS

	Code	Size (OD)
Cobra Pipe Clip	FABSPCCC/15-3/8	15mm - ¾"
	FABSPCCC/20-1/2	20mm - ½"
	FABSPCCC/25-3/4	25mm - ¾"
	FABSPCCC/32-1	32mm - 1"
	FABSPCCC/4011/4	40mm - 1¼"
	FABSPCCC/5011/2	50mm - 1½"
	FABSPCCC/63-2	63mm - 2"
	FABSPCCC/7521/2	75mm - 2½"
	FABSPCCC/90-3	90mm - 3"

### METRIC DOUBLE BOLT CLIPS

	Code	Size (OD)
PP GF Pipe Clip Double Bolt	FPCM/110	110mm
	FPCM/125	125mm
	FPCM/140	140mm
	FPCM/160	160mm
	FPCM/180	180mm
	FPCM/200	200mm
	FPCM/225	225mm
	FPCM/250	250mm
	FPCM/280	280mm
	FPCM/315	315mm
	FPCM/355	355mm
	FPCM/400	400mm

### IMPERIAL DOUBLE BOLT CLIPS

	Code	Size (OD)
PP GF Pipe Clip Double Bolt	FPCI/080	3"
	FPCI/100	4"
	FPCI/150	6"
	FPCI/200	8"

### IMPERIAL SADDLE CLIPS

	Code	Size (OD)
ABS Pipe Clip Saddle PP	FABSPCSA/015	15mm
	FABSPCSA/020	20mm
	FABSPCSA/025	25mm
	FABSPCSA/032	32mm
	FABSPCSA/040	40mm
	FABSPCSA/050	50mm
	FABSPCSA/080	80mm
	FABSPCSA/100	100mm



# THE SMARTER CHOICE.

## PIPE CLIPS, SPACERS AND GASKETS

### FOR PLASTIC PIPING SYSTEMS

#### INDUSTRIAL GASKETS

	Code	Size (OD)		Code	Size (OD)
<b>PTFE Coated EPDM Gasket FF ANSI</b>	GAP/015	15mm		FABSGFF150/015	15mm
	GAP/020	20mm		FABSGFF150/020	20mm
	GAP/025	25mm		FABSGFF150/025	25mm
	GAP/032	32mm		FABSGFF150/032	32mm
	GAP/040	40mm		FABSGFF150/040	40mm
	GAP/050	50mm		FABSGFF150/050	50mm
	GAP/065	65mm		FABSGFF150/065	65mm
	GAP/080	80mm		FABSGFF150/080	80mm
	GAP/100	100mm		FABSGFF150/100	100mm
	GAP/150	150mm		FABSGFF150/150	150mm
	GAP/200	200mm		FABSGFF150/200	200mm
<b>PTFE Coated EPDM Gasket FF ISO/DIN</b>	GAPDIN/025	25mm	<b>EPDM Full Faced Gasket ANSI 150</b>	FABSGFF4504/040	40mm
	GAPDIN/050	50mm		FABSGFF4504/050	50mm
	GAPDIN/065	65mm		FABSGFF4504/065	65mm
	GAPDIN/080	80mm		FABSGFF4504/080	80mm
				FABSGFF4504/100	100mm
<b>EPDM Full Faced Gasket Table E</b>	FABSGFFTE/015	15mm			
	FABSGFFTE/020	20mm			
	FABSGFFTE/025	25mm			
	FABSGFFTE/032	32mm			
	FABSGFFTE/040	40mm			
	FABSGFFTE/050	50mm			
	FABSGFFTE/065	65mm			
	FABSGFFTE/080	80mm			
	FABSGFFTE/100	100mm			
	FABSGFFTE/125	125mm			
	FABSGFFTE/150	150mm			
	FABSGFFTE/200	200mm			

# BACKING RINGS

## AND DRESSING SETS

### GALVANISED AND SS BACKING RINGS FOR PVC/ABS

	Code	Size (NB) mm			Code	Size (NB) mm
<b>Galvanised Backing Ring for ABS/PVC ANSI150 Drilling</b>	FABSBRG150/015	15	<b>Galvanised Backing Ring for uPVC Table D Drilling</b>		FUPVCBRGTD/225	225
	FABSBRG150/020	20			FUPVCBRGTD/250	250
	FABSBRG150/025	25				
	FABSBRG150/032	32				
	FABSBRG150/040	40				
	FABSBRG150/050	50				
	FABSBRG150/065	65				
	FABSBRG150/080	80				
	FABSBRG150/100	100				
	FABSBRG150/125	125				
	*FABSBRG150/150	150				
	*FABSBRG150/200	200				
<b>Galvanised Backing Ring for ABS/PVC Table E Drilling</b>	FABSBRGTE/015	15	<b>Galvanised Backing Ring for uPVC Table E Drilling</b>		FUPVCBRGTE/125	125
	FABSBRGTE/020	20			FUPVCBRGTE/150	150
	FABSBRGTE/025	25			FUPVCBRGTE/175	175
	FABSBRGTE/032	32			FUPVCBRGTE/200	200
	FABSBRGTE/040	40			FUPVCBRGTE/225	225
	FABSBRGTE/050	50			FUPVCBRGTE/250	250
	FABSBRGTE/065	65			FUPVCBRGTE/300	300
	FABSBRGTE/080	80			FUPVCBRGTE/400	400
	FABSBRGTE/100	100				
	FABSBRGTE/125	125				
	*FABSBRGTE/150	150				
	*FABSBRGTE/200	200				
<b>Galvanised Backing Ring for ABS/PVC BS4504 Drilling</b>	FABSBRG4504/050	50	<b>Stainless Steel Backing Ring for ABS/PVC Table E Drilling</b>		FABSBRSSSTE/050	50
	FABSBRG4504/065	65			FABSBRSSSTE/080	80
	FABSBRG4504/080	80			FABSBRSSSTE/100	100
	FABSBRG4504/100	100			*FABSBRSSSTE/150	150
	FABSBRG4504/125	125				
	*FABSBRG4504/150	150				
	*FABSBRG4504/200	200				
<b>PP BACKING RINGS FOR INDUSTRIAL /MECHANICAL APPLICATIONS</b>			<b>Butt Fusion Backing Ring ISO/DIN Drilling</b>		FPPVBRDINBF/090	90
					FPPVBRDINBF/110	110
					FPPVBRDINBF/125	125
					FPPVBRDINBF/140	140
					FPPVBRDINBF/160	160
					FPPVBRDINBF/180	180
					FPPVBRDINBF/200	200
					FPPVBRDINBF/250	250
					FPPVBRDINBF/280	280
					FPPVBRDINBF/315	315
<b>Socket Fusion Backing Ring ISO/DIN Drilling</b>			<b>Socket Fusion Backing Ring ISO/DIN Drilling</b>		FPPVBRDINSF/020	20
					FPPVBRDINSF/025	25
					FPPVBRDINSF/032	32
					FPPVBRDINSF/040	40
					FPPVBRDINSF/050	50
					FPPVBRDINSF/063	63
					FPPVBRDINSF/075	75
					FPPVBRDINSF/090	90
					FPPVBRDINSF/110	110
					FPPVBRDINSF/140	140
					FPPVBRDINSF/280	280
					FPPVBRDINSF/315	315

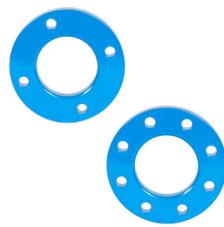
# THE SMARTER CHOICE.

## BACKING RINGS

### AND DRESSING SETS

#### FBE COATED BACKING RINGS FOR PE

	Code	Size (OD) mm
<b>FBE Coated Backing Ring for PE 4087 PN16 Drilling</b>	FPEBRNTD/063	63
	*FPEBRNTD/090	90
	FPEBRNTD/110	110
	FPEBRNTD/125	125
	FPEBRNTD/160	160
	FPEBRNTD/180	180
	FPEBRNTD/225	225
	FPEBRNTD/250	250
	FPEBRNTD/315	315
	FPEBRNTD/355	355
	FPEBRNTD/400	400
	FPEBRNTD/450	450
	FPEBRNTD/500	500
	FPEBRNTD/560	560
	FPEBRNTD/630	630
*Multi drilling includes 3/12" Hydrant drilling		
<b>FBE Coated Backing Ring for PE Table E Drilling</b>	FPEBRNTE/160	160
	FPEBRNTE/180	180
	FPEBRNTE/200	200
	FPEBRNTE/250	250
	FPEBRNTE/315	315



\*Multi drilling includes 3/12" Hydrant drilling

#### GALVANISED BACKING RINGS FOR PE

	Code	Size (OD) mm
<b>Galvanised Backing Ring for PE 4087 PN16 Drilling</b>	FPEBRGTD/032	32
	FPEBRGTD/040	40
	FPEBRGTD/050	50
	FPEBRGTD/063	63
	FPEBRGTD/075	75
	FPEBRGTD/090	90
	FPEBRGTD/110	110
	FPEBRGTD/125	125
	FPEBRGTD/140	140
	FPEBRGTD/160	160
	FPEBRGTD/180	180
	FPEBRGTD/200	200
	FPEBRGTD/225	225
	FPEBRGTD/250	250
	FPEBRGTD/280	280
	FPEBRGTD/315	315
	FPEBRGTD/355	355
	FPEBRGTD/400	400
	FPEBRGTD/450	450
	FPEBRGTD/500	500
	FPEBRGTD/560	560
	FPEBRGTD/630	630
	FPEBRGTD/710	710
	FPEBRGTD/800	800
	FPEBRGTD/900	900
	FPEBRGTD/1000	1000
	FPEBRGTD/1200	1200
<b>Galvanised Backing Ring for PE Table E Drilling</b>	FPEBRGTE/160	160
	FPEBRGTE/180	180
	FPEBRGTE/200	200
	FPEBRGTE/225	225
	FPEBRGTE/250	250
	FPEBRGTE/280	280
	FPEBRGTE/315	315
	FPEBRGTE/450	450

#### SS 316 BACKING RINGS FOR PE

	Code	Size (OD) mm
<b>SS 316 Backing Ring for PE, 4087 PN16 Drilling</b>	FPEBRSSTD/090	90
	FPEBRSSTD/110	110
	FPEBRSSTD/125	125
	FPEBRSSTD/160	160
	FPEBRSSTD/180	180
	FPEBRSSTD/225	225
	FPEBRSSTD/250	250
	FPEBRSSTD/315	315
	FPEBRSSTD/355	355
	FPEBRSSTD/400	400
	FPEBRSSTD/450	450
	FPEBRSSTD/500	500
	FPEBRSSTD/630	630
	FPEBRSSTD/710	710
	FPEBRSSTD/800	800
	FPEBRSSTD/900	900
<b>SS 316 Backing Ring for PE Table E Drilling</b>	FPEBRSSTE/160	160
	FPEBRSSTE/280	280
	FPEBRSSTE/450	450
	FPEBRSSTE/560	560



	Code	Size (OD) mm	Bolt Length mm
<b>Dressing Set 316SS Bolts Table D EPDM Gasket</b>	FPEHDRESS316TD/063	63	75
	FPEHDRESS316TD/075	75	75
	FPEHDRESS316TD/090	90	90
	FPEHDRESS316TD/110	110	90
	FPEHDRESS316TD/125	125	90
	*FPEHDRESS316TD/140	140	90
	FPEHDRESS316TD/160	160	110
	FPEHDRESS316TD/180	180	110
	FPEHDRESS316TD/200	200	110
	FPEHDRESS316TD/225	225	110
	FPEHDRESS316TD/250	250	110
	FPEHDRESS316TD/280	280	110
	FPEHDRESS316TD/315	315	130
	FPEHDRESS316TD/355	355	130
* Table D/E			
<b>Dressing Set Galv Bolts Table D EPDM Gasket</b>	FPEHDRESSGTD/063	63	75
	FPEHDRESSGTD/075	75	75
	FPEHDRESSGTD/090	90	90
	FPEHDRESSGTD/110	110	90
	FPEHDRESSGTD/125	125	90
	*FPEHDRESSGTD/140	140	90
	FPEHDRESSGTD/160	160	110
	FPEHDRESSGTD/180	180	110
	FPEHDRESSGTD/200	200	110
	FPEHDRESSGTD/225	225	110
	FPEHDRESSGTD/250	250	110
	FPEHDRESSGTD/280	280	110
	FPEHDRESSGTD/315	315	130
	FPEHDRESSGTD/355	355	130
* Table D/E			



\* Table D/E

## +GF+ SIGNET

### FLOW MEASUREMENT AND INSTRUMENTATION

George Fischer Signet delivers sophisticated, advanced flow and analytical technology, which offer accuracy, dependability, ease of use, and minimal maintenance. Every sensor, transmitter, controller and monitor manufactured meets the highest of standards. Engineered for performance, Signet products are ideally suited for Chemical Process, Food and Beverage, Life Sciences, Shipbuilding, Semiconductor, Water and Waste Water Treatment, including the Pool Industry, and Agriculture.

**This product list is designed to be read in conjunction with the +GF+ Signet Catalogue, available on request. For details on the +GF+ Signet range of Analytical Instrumentation, please refer to the separate product list.**

#### 2551 INSERTION MAGMETER

		Code
Signet Insertion Magmeters feature no moving parts to wear or foul and high accuracy sensing without the excessive costs associated with full bore magnetic flow units. The units accurately measure flow in fluids containing a high content of particles, solids and fibres, making them an excellent choice for applications with dirty fluids. A minimum conductivity of 20µS is required.	Blind Meter	SG3-2551-P0-11 SG3-2551-P1-11 SG3-2551-P2-11
	Frequency Output	
	4-20mA Output	SG3-2551-P0-12 SG3-2551-P1-12 SG3-2551-P2-12
	With Display	SG3-2551-P0-41 SG3-2551-P1-41 SG3-2551-P2-41
	Frequency Output	
	4-20mA Output	SG3-2551-P0-42 SG3-2551-P1-42 SG3-2551-P2-42

#### 2581 FLOWTRAMAG™

		Code
The Signet 2580 FlowtraMag is a full-bore plastic PVC in line style magnetic flowmeter. The PVC body with titanium electrodes has no moving parts, and is two to three times lighter in weight compared to traditional metal magmeters on the market. It is designed for high accuracy flow measurement in short pipe runs, making it an ideal solution for industrial applications where performance and ease of use are important.	Full-Bore Magmeter, 25mm PVC Union Ends FKM Seals	SG3-2580-P-T-010
The FlowtraMag is available in pipe sizes of 1", 2" and 4", optimized for performance in short pipe runs often associated with final effluent lines, well heads and water treatment skids.	Full-Bore Magmeter, 50mm PVC Union Ends FKM Seals	SG3-2580-P-T-020
	Full-Bore Magmeter, 100mm PVC ANSI 150 Flanged Ends FKM Seals	SG3-2580-P-T-040

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## FLOW MEASUREMENT AND INSTRUMENTATION

### FLOW SENSORS

Paddlewheel sensors offer traditional, dependable, and accurate flow measurement. They can be used in conjunction with separately mounted digital displays, or as blind sensors.

#### 515 ROTOR-X PADDLEWHEEL

		Code
		<b>Standard Sensor</b>
		SGP51530-P0 SGP51530-P1 SGP51530-P2
<b>Integral Mount Sensor</b>		SG3-8510-P0 SG3-8510-P1

Suit flow velocities of 0.3 to 6m/s. They have a sinusoidal output capable of driving a self powered flowmeter, such as the 3-5090.

#### 525 METALEX FLOW SENSOR

		Code
<b>Standard Sensor</b>		SGP525-1 SGP525-2

Suitable for extreme pressures and temperatures, for flow velocities 0.5 to 6m/s. Requires socketweld or weldon installation fittings sold separately.

Compatible with 9900 Transmitter

#### 2540 STAINLESS STEEL FLOW SENSOR

		Code
		<b>Standard Sensor</b>
		SG3-2540-2
<b>Hot-Tap Sensor</b>		SG3-2540-4

Strength and corrosion resistance of 316 Stainless Steel, and the convenience of an insertion sensor design. Suitable for flow velocities 0.1 to 6m/s.

2540-2 is suitable for pipes up to DN600. The 2540-4 suits up to DN900, and includes a bleed valve for hot tap installations. Both models mount using a 1-1/2in Thread.

Compatible with 9900 Transmitter

#### 2536 ROTOR-X PADDLEWHEEL

		Code
		<b>Standard Sensor</b>
		SG3-2536-P0 SG3-2536-P1 SG3-2536-P2
<b>Integral Mount Sensor</b>		SG3-8512-P0 SG3-8512-P1

Low flow model, with process ready open-collector output, and good noise immunity. Suit flow velocities 0.1 to 6m/s, accepts a 3-24V power supply.

#### 2537 BLIND PADDLEWHEEL FLOW SENSOR

		Code
		<b>Pulse Divider &amp; Flow Switch Output</b>
		SG3-2537-2C-P0 SG3-2537-2C-P1
		<b>4-20mA Output</b>
		SG3-2537-6C-P0 SG3-2537-6C-P1

The 2537 blind Paddlewheel flow sensor combines a traditional paddlewheel flow sensor with a blind output option. It is a standalone unit, with no external display. Measures flow velocities down to 0.1 m/s, Outputs can be connected directly to Chart Recorders, PLC's, or pump VSD's by using either the pulse divider with configurable range and width, or the programmable 4-20mA Output.

The 2537 can also be used as a flow switch, with programmable low and high set points, and adjustable hysteresis.

Stand-alone unit.

## +GF+ SIGNET

### FLOW MEASUREMENT AND INSTRUMENTATION

#### 9900 FLOW TRANSMITTER

"At a glance visibility" due to extra large characters and a digital bar graph from an auto-sensing backlit LCD display. Single sensor input compatible with signals from all GF Signet Flow, pH/ORP, Conductivity, Salinity, Pressure or Temperature sensors as well as any non-GF Signet sensors that outputs a 4-20mA signal (requires GF Signet 8058 signal convertor).

One permanent and one resettable totaliser, LED relay or warning indicators. Analogue (4 – 20MA) and open collector with user selectable pulse units output.

Relay module and batch controller modules are optional extras and can be retrofitted (Panel version only).

Panel or field mount versions available.  
Requires 12 to 32VDC power supply.

	Code
<b>Field Mount</b> 	SG3-9900-1
<b>Panel Mount</b> 	SG3-9900-1P SG3-9900-1BC

#### MOUNTING KIT

	Code
<b>Universal mount kit</b> 	SG3 - 8050
to mount field transmitter on to a wall or other flat surface	

	Code
<b>Integral mount kit</b> 	SG3 - 8051
to mount field transmitter on to the top of an integral sensor	

#### OPTIONAL EXTRAS

	Code
<b>Relay Module</b> 	SG3-9900.393
<b>Batch Module</b> 	SG3-9900.397

#### 8900 MULTI-PARAMETER INSTRUMENT

This instrument is built to order from user specified modules. With up to 6 inputs that can include flow, pH/ORP, conductivity, pressure, temperature and/or turbidity and up to 4 outputs,(analogue and relays). AC and DC power options are available.

Advanced relay logic allows up to 3 measurement sources to trigger relay.

Derived measurements include: difference, sum, ratio, percent recovery, percent rejection, percent passage and BTU (or Kw)  
Price varies depending on configuration; please enquire.

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## FLOW MEASUREMENT AND INSTRUMENTATION

### INSTALLATION FITTINGS

All the previously mentioned Flow Sensors measure flow velocity at a set point, and from this calculate the total flow rate through the pipe system. For accurate and repeatable measurements fully developed turbulent flow is required. For full details and installation requirements refer to GF Signet Literature.

For optimum accuracy Signet recommend that the pin on a paddlewheel flow sensor, or the tip of an Insertion Magmeter, is positioned at a point 10% of the Pipe ID from the inside of the pipe wall.

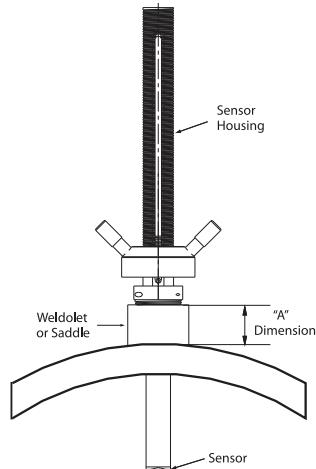
Installation fittings broadly fit into 2 categories, depending on the flow sensor to be used.

#### FITTINGS FOR 2540 AND 2552 METAL FLOW METERS

The 1-1/4in or 1-1/2in mounting thread allows the use of a conventional branch saddle, or Weld-o-let.

Sensors can easily be fitted to PE pipes (as shown here) using Electrofusion Saddles and threaded adaptors.

Hot-tap installations can also be easily incorporated.



#### FITTINGS FOR 515, 2536, 2537, PADDLEWHEELS, AND 2551 INSERTION MAGMETERS

For smaller diameter Schedule 80 PVC pipelines Signet offer off the shelf installation fittings which meet this requirement. For other materials, configurations, and pipe diameters a variety of installation options are available.

Flow meters are available with differing insertion depths to suit the pipe diameter.

For plastic, and other pipes with thicker walls, it is sometimes necessary to use a longer sensor.

Code	Insertion Depth	Nominal Pipe Size
P0	51mm	up to DN100
P1	84mm	DN100 to DN200
P2	160mm	DN250 and above

#### SCHEDULE 80 PVC TEES

	Code	Size
Tee	SGPV8T005F	15mm
	SGPV8T010F	25mm
	SGPV8T012F	32mm
	SGPV8T015F	40mm
	SGPV8T020	50mm

Suit Schedule 80 PVC Pipework. 80 and 100mm sizes compatible with NZS PVC Pipe

#### PVC CLAMP-ON SADDLES

	Code	Size
Clamp-on Saddle	SGPV8S030	80mm
	SGPV8S040	100mm
	SGPV8S060	150mm

Suit Schedule 80 PVC Pipework. 80 and 100mm sizes compatible with NZS PVC Pipe

#### PP ADAPTOR INSERTS

For larger pipe diameters it is necessary to use either a conventional saddle, or weld-o-let, in conjunction with a threaded adaptor. For plastic pipes the Alprene saddles from Asmuss are ideal. Some machining may be required.

Note: Inserts only.  
Saddles are sold separately.

	Code
Suit P0 Length Sensor, and 32mm Female BSP Saddle	SGI515P0/032
Suit P1 Length Sensor, and 50mm Female BSP Saddle	SGI515P1/050
Suit P2 Length Sensor, and 50mm Female BSP Saddle	SGI515P2/050

## +GF+ SIGNET

### ANALYTICAL MEASUREMENT AND INSTRUMENTATION

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**This product list is designed to be read in conjunction with the +GF+ Signet Catalogue, available on request. For details on the +GF+ Signet range of Flow Instrumentation, please refer to the separate product list.**

#### ANALYTICAL - PH / ORP

The Signet 2724-2726 pH and ORP electrodes feature a patented reference electrode design and use the unique foul-proof patented DryLoc® connector, with gold plated contacts. The robust Ryton® threaded sensor body and choice of flat pH, bulb pH, or flat ORP sensing elements provides broad range of chemical compatibility for a wide variety of applications.

The Signet 2764-2767 Differential pH & ORP electrodes are built to handle even the most extreme and harshest of chemical applications. The pH and reference electrodes are measured against a ground electrode, insuring a steady, stable signal. To ensure a long service life, the reference cell features a refillable electrolyte chamber and a replaceable equitransferant salt bridge, both easily serviced in the field.

(The 2714 Twist-Loc series of electrodes and associated preamplifiers has been discontinued, and replaced with the below)

#### 2724-2726 PH AND ORP ELECTRODES



		Code
<b>For Use with 2750 Sensor Electronics and 9900 Transmitter</b>	<b>Flat pH</b>	SG3-2724-00
	<b>Bulb pH</b>	SG3-2726-00
	<b>Bulb pH, HF</b>	SG3-2726-HF-00
	<b>Bulb pH, Low Cond.</b>	SG3-2726-LC-00
<b>For Use with 2760 Preamplifier and 8750 Transmitter</b>	<b>Flat pH</b>	SG3-2724-10
	<b>Bulb pH</b>	SG3-2726-10
	<b>Bulb pH, HF</b>	SG3-2726-HF-10
	<b>Bulb pH, Low Cond.</b>	SG3-2726-LC-10
<b>For Use with either 2750 or 2760</b>	<b>Flat, ORP</b>	SG3-2725-60

Mount using Signet Install Tee or 3/4" thread

#### 2764-2767 DIFFERENTIAL PH AND ORP ELECTRODES



		Code
<b>For Use with 2750 Sensor Electronics and 9900 Transmitter</b>	<b>Flat pH</b>	SG3-2764-2
	<b>Bulb pH</b>	SG3-2766-2
<b>For Use with 2760 Preamplifier and 8750 Transmitter</b>	<b>Flat pH</b>	SG3-2764-1
	<b>Bulb pH</b>	SG3-2766-1
<b>For Use with either 2750 or 2760</b>	<b>Flat, ORP</b>	SG3-2765-1

Mount using Signet Install Tee or 1" NPT thread. Other Differential Electrodes are available for use with the Signet Multiparameter unit, and also as 3000 units for connection to other brands of instruments.

#### 2751 SENSOR ELECTRONICS FOR DIRECT 4-20MA OUTPUT



		Code
<b>Inline Sensor, Yellow Body</b>	<b>Electrics Only for use with 9900 4-20mA output with EasyCal</b>	SG3-2751-1 SG3-2751-2
<b>Submersible Sensor, NPT</b>	<b>Electronics Only for use with 9900</b>	SG3-2751-3

Produces a direct 4-20mA output for use when a blind meter is required. EasyCal feature recognises common pH and ORP buffer values.

# THE SMARTER CHOICE.

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## ANALYTICAL MEASUREMENT AND INSTRUMENTATION

### ANALYTICAL - pH / ORP

Signet pH and ORP electrodes can be used with a sensor electronics unit as a stand alone "blind" instrument with 4-20mA output, or combine with the +GF+ Signet 9900 Transmitter for local display and various output and control functions.

#### 9900 MULTI-INSTRUMENT TRANSMITTER



		Code
Field Mount		SG3-9900-1
Panel Mount		SG3-9900-1P
Optional Extras	Relay Module	SG3-9900.393
	Conductivity Module	SG3-9900.394
8050 Universal Mount Kit		SG3-8050

"At a glance visibility" due to extra large characters and a digital bar graph from an auto-sensing backlit LCD display. Single sensor input compatible with signals from all GF Signet Flow, pH/ORP, Conductivity, Salinity, Pressure or Temperature sensors as well as any non-GF Signet sensors that outputs a 4-20mA signal (requires GF Signet 8058 signal convertor). One permanent and one resettable totaliser, LED relay or warning indicators. Analogue (4 – 20MA) and open collector with user selectable pulse units output. Relay module is an optional extra and can be retrofitted (Panel version only). Panel or field mount versions available. Requires 12 to 32VDC power supply. Universal Mount Kit is used to mount a field mount transmitter onto a pipe, wall, or other flat surface.

#### pH / ORP CALIBRATION AND MAINTENANCE SOLUTIONS

	Code			Code
Buffer Solutions	SG3-0700.390		Replacements for Differential Electrodes	3864-0001
			Replacement Salt Bridge	

The mV output from the pH electrode is created by the interaction between the electrode and the fluid. The electrode contains a gel that depletes over time, so the instrument must be readjusted periodically to maintain system accuracy. The Signet pH buffers are ideal for routine calibration requirements. For ease of transportation, pH buffer kits are available in powder form. 1 kit provides enough to make 50mls of 4,7, and 10pH buffer solution.

Signet Differential pH and ORP electrodes can be used in more aggressive applications, and can be maintained to improve their service life before replacement becomes necessary. If readings become inaccurate by more than 50mV it is recommended to replace the electrolyte solution. If readings start to slowly drift, or respond slowly, then the salt bridge should be replaced.

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## ANALYTICAL MEASUREMENT AND INSTRUMENTATION

### 2751 Product Selection Guide

<b>1. Choose the Electrode</b>	2724-2726, 2734-2736  Can use Any 3-272X or 273X series Electrode	2764-2767 Differential  3-2764-1 3-2764-2 3-2766-1 3-2766-2	2774-2777  ORP electrodes must have 10K ID resistor use: 3-2775, 3-2777  pH Electrodes can be either the 1K or 3K use: 3-2774, 3-2774-1, 3-2776, 3-2776-1	2756 and 2757 Wet-Tap  Can use any Wet-Tap 275X series electrode
<b>2. Determine the mounting style:</b>	In-line  And  -In-line fitting  Or  Submersible	2751-1 or -2  2751-1 or -2 2751-3 or -4  2751-1 or -2 2751-3 or -4  2751-1 or -2 2751-3 or -4  Signet fitting ¾" reducing tee 1" threaded tee ¾" reducing tee  2751-3 or -4 and cable conduit (customer supplied) connected to ¾" sensor electronics	2751-1 or -2  2751-3 or -4  1" threaded tee  ¾" reducing tee  3719 Wet-Tap Assembly  (Submersible not applicable with Wet-Tap assembly)	
<b>3. Junction Boxes</b>	3-8050-1: Use when extending the submersible cable over long distance. 3-8050-2: Use with the submersible 2751-3 or -4 and the in-line 2751-1 for best calibration results with the EasyCal function when using the blind 4 to 20 mA output.			
<b>4. Choose the output instrument</b>	Digital (S'L)  Or  4 to 20 mA	9900 or 9950 Instruments, Profibus Concentrator	OR	PLCs or Chart Recorders

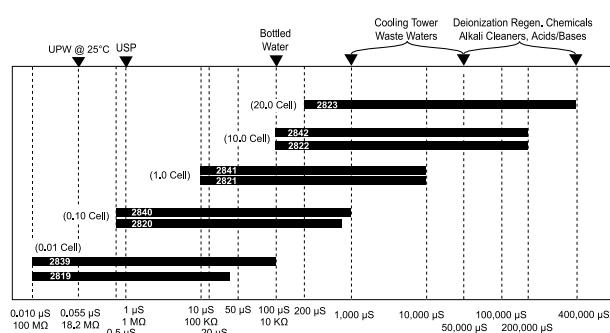
# THE SMARTER CHOICE.

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## ANALYTICAL MEASUREMENT AND INSTRUMENTATION

### CONDUCTIVITY

Signet Conductivity/Resistivity Sensors are designed to provide versatile installation and accurate sensing across a very broad dynamic range. Coupled with Signet-patented measuring circuitry a three decade range with  $\pm 2\%$  of reading accuracy is achieved.



### 2819-2823 CONDUCTIVITY ELECTRODES

	Code
0.01cm cell	SG3-2819-1
0.1cm cell	SG3-2820-1
1cm cell	SG3-2821-1
10cm cell	SG3-2822-1
20cm cell	SG3-2823-1

2819-2823 Electrodes are available with 3/4in NPT process connections as standard. 1-1/2in or 2in tri-clamp are available.

### 2839-2842 CONDUCTIVITY ELECTRODES

	Code
0.01cm cell	SG3-2839-1
0.1cm cell	SG3-2840-1
1cm cell	SG3-2841-1
10cm cell	SG3-2842-1

2839-2842 Electrodes offer a compact solution, and are dual 3/4in threaded for ease of installation in submerged applications.

Any of the above electrodes can be used with one of the GF Signet Conductivity Instruments to give various configurations of digital and analogue display, and outputs. Alternatively the 2839-2842 range can be coupled with the 2850 Sensor Electronics to give an Integrally Mounted blind 4-20mA output.

### 2850 SENSOR ELECTRONICS

	Code
Integral / Standpipe Mount	SG3-2850-52
Universal Mount	SG3-2850-62

Direct 4-20mA Output, with EasyCal. Suitable for Integral Mounting with a 2839-2842 Electrode.

### TEMPERATURE

#### 2350 TEMPERATURE SENSOR

	Code
	SG3-2350-1
	SG3-2350-2
	SG3-2350-3

One Piece PVDF Body, Digital or 4-20mA Output. Compatible with 9900, or Stand-alone.

### PRESSURE

#### 2450 PRESSURE SENSOR

	Code
	SG3-2450-1L
	SG3-2450-3U
	SG3-2450-3H
	SG3-2450-7H

One Piece PVDF Body, Digital or 4-20mA Output, 0-10 psi, 0-50psi, or 0-250psi. Compatible with 9900, or Stand-alone.

# +GF+ VARIABLE AREA FLOW METERS

## FOR SIMPLE AND ACCURATE MEASUREMENT OF FLUIDS & GASES

### Pressure range

Nominal pressure 10 bar at 20 °C

### Materials

Tube:	Polyamid, Polysulphone, PVDF and PVC-U transparent
Float:	PVDF, PTFE
End stops:	PVDF
Screw connection:	PVC-U (PP, PVDF, ABS)
O-ring:	EPDM (FPM)
Guiding rod:	Peek



### Calibrated scales

The standard version comes with a printed on double scale: a percentage scale and a scale giving flow rate (H<sub>2</sub>O l/h).

The special scales come as a sticker and need to be fitted to a blank taper tube. The scales are adhesive bonded to the tube and are printed with a special hard wearing paint.

#### Standard scale:

l/h

#### Special scales:

m<sup>3</sup>/h, GPM

#### Scales for other liquids:

HCl 30-33%, NaOH 30%, Na-OH 50% and air

### Related Documents

Variable Area Flow Meter Technical & Installation Guide

### CHEMICAL RESISTANCE LIST

	Chemical		PVC-U	Trogamid	PSU	PVDF	Peek
<b>Acid</b>	phosphoric acid	H <sub>3</sub> PO <sub>4</sub>	75%	X	O	X	X
	sulfuric acid	H <sub>2</sub> SO <sub>4</sub>	<90%	X	-	-	X
	nitric acid	HNO <sub>3</sub>	<55%	X	-	-	X
	nitric acid	HNO <sub>3</sub>	67%	-	-	-	X
	hydrofluoric acid	HF	<70%	X	-	-	X
	hydrochloric acid	HCl	36%	X	O	X	O
<b>Base</b>	ammonia	NH <sub>4</sub> OH	25%	X	X	X	-
	caustic potash	KOH	>50%	X	O	X	-
	caustic soda	NaOH	<50%	X	O	X	-
<b>Anorganica</b>	ferric chloride	FeCl <sub>3</sub>	X	X	X	X	X
	sodium hydrochloride	NaOCl	15%	X	X	X	-
	sodium bisulfite	NaHSO <sub>3</sub>	<40%	X	X	X	X
	hydrogen peroxide	H <sub>2</sub> O <sub>2</sub>	35%	X	-	X	O
	aqueous inorganic saline solutions (not oxidizing)	til saturation		X	X	X	X
<b>Organica</b>	formic acid	HCOOH	85%	O	-	O	O
	acetic acid	CH <sub>3</sub> COOH	85%	O	-	O	O
	formaldehyde	H <sub>2</sub> CO	<40%	X	-	X	O
	glycol		<50%	O	-	X	X
	acetone	undiluted		-	O	-	O
	ethanol, methanol	undiluted		O	-	X	X
	aliphatic hydrocarbons	undiluted		O	X	X	X

Valid for 40°C and 2bar

X: recommended

O: with limitations

-: not recommended

For higher or lower concentrations than mentioned in the list or entry "O", please contact our sales team

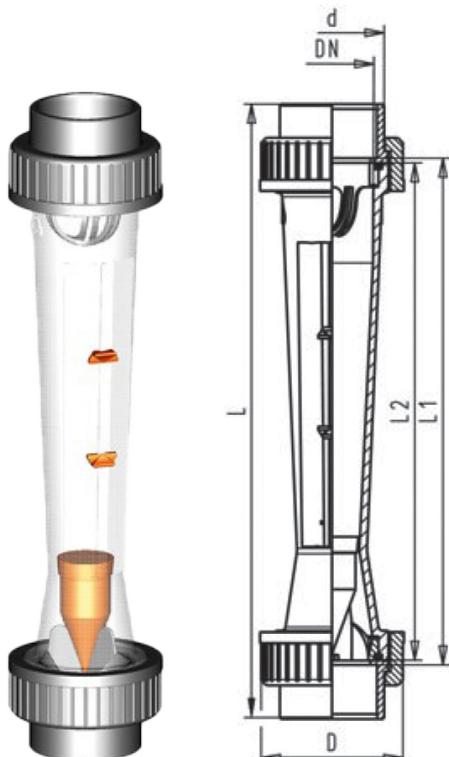
# THE SMARTER CHOICE.

## +GF+ VARIABLE AREA FLOW METERS

FOR SIMPLE AND ACCURATE MEASUREMENT OF FLUIDS & GASES

### 335 SERIES VARIABLE AREA FLOW METERS

	Code	Range (Ltr / hr)	Size (NB)		Code	Range (Ltr / hr)	Size (NB)
<b>Type 335, PVC Without Magnet</b>	VGF335000	50-500	25		VGFPSU335040	50-500	25
	VGF335001	100-1000	25		VGFPSU335041	100-1000	25
	VGF335002	150-1500	32		VGFPSU335042	150-1500	32
	VGF335003	250-2500	32		VGFPSU335043	250-2500	32
	VGF335004	200-2000	40		VGFPSU335044	200-2000	40
	VGF335005	300-3000	40		VGFPSU335045	300-3000	40
	VGF335006	600-6000	40		VGFPSU335046	600-6000	40
	VGF335007	600-6000	50		VGFPSU335047	600-6000	50
	VGF335008	1000-10000	50		VGFPSU335048	1000-10000	50
	VGF335009	1500-15000	50		VGFPSU335049	1500-15000	50
	VGF335010	2000-20000	65		VGFPSU335050	2000-20000	65
	VGF335011	3000-30000	65		VGFPSU335051	3000-30000	65
	VGF335012	8000-60000	65		VGFPSU335052	8000-60000	65
<b>Type 335, PVC With Magnet</b>	VGF335100M	50-500	25		VGFPSU335140M	50-500	25
	VGF335101M	100-1000	25		VGFPSU335141M	100-1000	25
	VGF335102M	150-1500	32		VGFPSU335142M	150-1500	32
	VGF335103M	250-2500	32		VGFPSU335143M	250-2500	32
	VGF335104M	200-2000	40		VGFPSU335144M	200-2000	40
	VGF335105M	300-3000	40		VGFPSU335145M	300-3000	40
	VGF335106M	600-6000	40		VGFPSU335146M	600-6000	40
	VGF335107M	600-6000	50		VGFPSU335147M	600-6000	50
	VGF335108M	1000-10000	50		VGFPSU335148M	1000-10000	50
	VGF335109M	1500-15000	50		VGFPSU335149M	1500-15000	50
	VGF335110M	2000-20000	65		VGFPSU335150M	2000-20000	65
	VGF335111M	3000-30000	65		VGFPSU335151M	3000-30000	65
	VGF335112M	8000-60000	65		VGFPSU335152M	8000-60000	65



Range (Ltr / hr)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
<b>50-500</b>	58	385	341	335	1½
<b>100-1000</b>	58	385	341	335	1½
<b>150-1500</b>	72	393	341	335	2
<b>250-2500</b>	72	393	341	335	2
<b>200-2000</b>	83	403	341	335	2¼
<b>300-3000</b>	83	403	341	335	2¼
<b>600-6000</b>	83	403	341	335	2¼
<b>600-6000</b>	101	417	341	335	2¼
<b>1000-10000</b>	101	417	341	335	2¼
<b>1500-15000</b>	101	417	341	335	2¼
<b>2000-20000</b>	135	429	341	335	3½
<b>3000-30000</b>	135	429	341	335	3½
<b>8000-60000</b>	135	429	341	335	3½

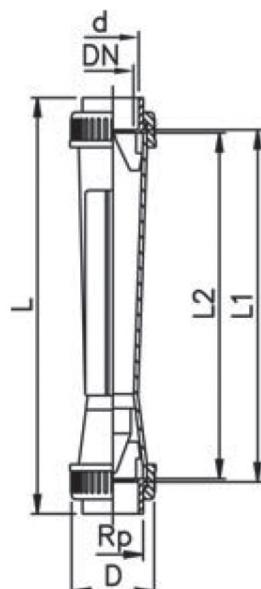
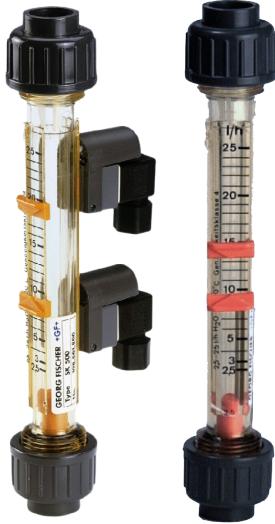
PVDF and Trogamid (Polyamid) Options available on request

# +GF+ VARIABLE AREA FLOW METERS

FOR SIMPLE AND ACCURATE MEASUREMENT OF FLUIDS & GASES

## SHORT VERSION VARIABLE AREA FLOW METERS

	Code	Range (Ltr / hr)	Size (NB)		Code	Range (Ltr / hr)	Size (NB)
<b>Short Version PVC Without Magnet</b>	SKPVC50/010	2.5-25	10	<b>Short Version PSU Without Magnet</b>	SKPSU50/010	2.5-25	10
	SKPVC51/010	5-50	10		SKPSU51/010	5-50	10
	SKPVC52/010	10-100	10		SKPSU52/010	10-100	10
	SKPVC60/015	8-80	15		SKPSU60/015	8-80	15
	SKPVC61/015	15-150	15		SKPSU61/015	15-150	15
	SKPVC62/015	20-200	15		SKPSU62/015	20-200	15
	SKPVC70/025	15-150	25		SKPSU70/025	15-150	25
	SKPVC71/025	30-300	25		SKPSU71/025	30-300	25
	SKPVC72/025	50-500	25		SKPSU72/025	50-500	25
	SKPVC73/025	100-1000	25		SKPSU73/025	100-1000	25
<b>Short Version PVC With Magnet</b>	SKPVC500/010	2.5-25	10	<b>Short Version PSU With Magnet</b>	SKPSU500/010	2.5-25	10
	SKPVC510/010	5-50	10		SKPSU510/010	5-50	10
	SKPVC520/010	10-100	10		SKPSU520/010	10-100	10
	SKPVC600/015	8-80	15		SKPSU600/015	8-80	15
	SKPVC610/015	15-150	15		SKPSU610/015	15-150	15
	SKPVC620/015	20-200	15		SKPSU620/015	20-200	15
	SKPVC700/025	15-150	25		SKPSU700/025	15-150	25
	SKPVC710/025	30-300	25		SKPSU710/025	30-300	25
	SKPVC720/025	50-500	25		SKPSU720/025	50-500	25
	SKPVC730/025	100-1000	25		SKPSU730/025	100-1000	25



Range (Ltr / hr)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	Rp (inch)
<b>2.5-25</b>	35	199	171	165	$\frac{3}{8}$
<b>5-50</b>	35	199	171	165	$\frac{3}{8}$
<b>10-100</b>	35	199	171	165	$\frac{3}{8}$
<b>8-80</b>	43	223	191	185	$\frac{1}{2}$
<b>15-150</b>	43	223	191	185	$\frac{1}{2}$
<b>20-200</b>	43	223	191	185	$\frac{1}{2}$
<b>15-150</b>	60	250	206	200	1
<b>30-300</b>	60	250	206	200	1
<b>50-500</b>	60	250	206	200	1
<b>100-1000</b>	60	250	206	200	1

## LIMIT SWITCHES FOR TYPE 335, 350 AND SHORT VERSION

	Code	Type		Code	Type
<b>Limit Contact Minimum</b>	VAGK10	min			
			<b>Limit Contact Maximum</b>	VAGK11	max

Please refer to our Installation Guide

# THE SMARTER CHOICE.

## COMPRESSION FITTINGS



### METRIC COMPRESSION FITTINGS

Asmuss offer a core range of Plasmon Compression fittings. Please contact us if you cannot find the fitting you require as we have other options or can order for you.

PLASMON PN16 COMPRESSION FITTINGS			
	Code	OD (mm)	PN (bar)
<b>Male End Connector</b> 	PLMEC/020x1/2	20x1/2"	16
	PLMEC/025x1/2	25x1/2"	16
	PLMEC/025x3/4	25x3/4"	16
	PLMEC/032x1	32x1"	16
	PLMEC/040x1/4	40x1/4"	16
	PLMEC/050x1/2	50x1/2"	16
	PLMEC/063x2	63x2"	16
<b>Female End Connector</b> 	PLFEC/020x1/2	20x1/2"	16
	PLFEC/025x3/4	25x3/4"	16
	PLFEC/032x1	32x1"	16
	PLFEC/040x1/4	40x1/4"	16
	PLFEC/050x1/2	50x1/2"	16
	PLFEC/063x2	63x2"	16
<b>Straight Coupling</b> 	PLJ/020	20	16
	PLJ/025	25	16
	PLJ/032	32	16
	PLJ/040	40	16
	PLJ/050	50	16
	PLJ/063	63	16
<b>Repair Coupling</b> 	PLRPC/020	20	16
	PLRPC/025	25	16
	PLRPC/032	32	16
	PLRPC/040	40	16
	PLRPC/050	50	16
	PLRPC/063	63	16
*without pipe stop			
<b>Reducing Coupling</b> 	PLRJ/025x020	25x20	16
	PLRJ/032x025	32x25	16
	PLRJ/040x032	40x32	16
	PLRJ/050x040	50x40	16
	PLRJ/063x050	63x50	16
<b>90° Elbow</b> 	PLEL90/020	20x20	16
	PLEL90/025	25x25	16
	PLEL90/032	32x32	16
	PLEL90/040	40x40	16
	PLEL90/050	50x50	16
	PLEL90/063	63x63	16
<b>90° Elbow, Female</b> 	PLFEL90/020x1/2	20x1/2"	16
	PLFEL90/025x3/4	25x3/4"	16
	PLFEL90/032x1	32x1"	16
	PLFEL90/040x1/4	40x1/4"	16
	PLFEL90/050x1/2	50x1/2"	16
	PLFEL90/063x2	63x2"	16
<b>90° Elbow, Male</b> 	PLMEL90/020x1/2	20x1/2"	16
	PLMEL90/025x3/4	25x3/4"	16
	PLMEL90/032x1	32x1"	16
	PLMEL90/040x1/4	40x1/4"	16
	PLMEL90/050x1/2	50x1/2"	16
	PLMEL90/063x2	63x2"	16
<b>Tee</b> 	PLT/020	20	16
	PLT/025	25	16
	PLT/032	32	16
	PLT/040	40	16
	PLT/050	50	16
	PLT/063	63	16
<b>Reducing Tee</b> 	PLRT/25x25x20	25x25x20	16
	PLRT/32x32x25	32x32x25	16
	PLRT/40x40x32	40x40x32	16
	PLRT/50x50x40	50x50x40	16
	PLRT/63x63x50	63x63x50	16
<b>Tee Female</b> 	PLFT/020x1/2	20x1/2"	16
	PLFT/025x3/4	25x3/4"	16
	PLFT/032x1	32x1"	16
	PLFT/040x1/4	40x1/4"	16
	PLFT/050x1/2	50x1/2"	16
	PLFT/063x2	63x2"	16
<b>End Cap</b> 	PLCPL/020	20	16
	PLCPL/025	25	16
	PLCPL/032	32	16
	PLCPL/040	40	16
	PLCPL/050	50	16
	PLCPL/063	63	16
	PLCPL/075	75	16
	PLCPL/090	90	16
	PLCPL/110	110	16

# **BOLT ON SADDLES & TAPPING SADDLES**

# **FOR METRIC COMPRESSION FITTINGS**

# ALPRENE POLY16 BRANCHING SADDLES

BLUE	Code	OD (mm)	# Bolts	PN (bar)			Code	OD (mm)	# Bolts	PN (bar)
	FAS/020x1/2	20x1/2"	2	16			FAS/125x1/4	125x1/4"	6	16
	FAS/025x1/2	25x1/2"	2	16			FAS/125x1/2	125x1 1/2"	6	16
	FAS/025x3/4	25x3/4"	2	16			FAS/125x2	125x2"	6	16
	FAS/032x1/2	32x1/2"	2	16			FAS/140x1/2	140x1/2"	6	16
	FAS/032x3/4	32x3/4"	2	16			FAS/140x3/4	140x3/4"	6	16
	FAS/032x1	32x1"	2	16			FAS/140x1	140x1"	6	16
	FAS/040x1/2	40x1/2"	2	16			FAS/140x1 1/4	140x1 1/4"	6	16
	FAS/040x3/4	40x3/4"	2	16			FAS/140x1 1/2	140x1 1/2"	6	16
	FAS/040x1	40x1"	2	16			FAS/140x2	140x2"	6	16
	FAS/050x1/2	50x1/2"	4	16			FAS/160x1/2	160x1/2"	6	16
	FAS/050x3/4	50x3/4"	4	16			FAS/160x3/4	160x3/4"	6	16
	FAS/050x1	50x1"	4	16			FAS/160x1	160x1"	6	16
	FAS/050x1 1/4	50x1 1/4"	4	16			FAS/160x1 1/4	160x1 1/4"	6	16
	FAS/063x1/2	63x1/2"	4	16			FAS/160x1 1/2	160x1 1/2"	6	16
	FAS/063x3/4	63x3/4"	4	16			FAS/160x2	160x2"	6	16
	FAS/063x1	63x1"	4	16			FAS/160x3	160x3"	6	16
	FAS/063x1 1/4	63x1 1/4"	4	16			FAS/160x4	160x4"	6	16
	FAS/063x1 1/2	63x1 1/2"	4	16			FAS/180x1	180x1"	6	10
	FAS/075x1/2	75x1/2"	4	16			FAS/180x1 1/4	180x1 1/4"	6	10
	FAS/075x3/4	75x3/4"	4	16			FAS/180x1 1/2	180x1 1/2"	6	10
	FAS/075x1	75x1"	4	16			FAS/180x2	180x2"	6	10
	FAS/075x1 1/4	75x1 1/4"	4	16			FAS/180x3	180x3"	6	10
	FAS/075x1 1/2	75x1 1/2"	4	16			FAS/180x4	180x4"	6	10
	FAS/075x2	75x2"	4	16			FAS/200x1 1/2	200x1 1/2"	6	10
	FAS/090x1/2	90x1/2"	4	16			FAS/200x2	200x2"	6	10
	FAS/090x3/4	90x3/4"	4	16			FAS/200x3	200x3"	6	10
	FAS/090x1	90x1"	4	16			FAS/200x4	200x4"	6	10
	FAS/090x1 1/4	90x1 1/4"	4	16			FAS/225x1 1/2	225x1 1/2"	6	10
	FAS/090x1 1/2	90x1 1/2"	4	16			FAS/225x2	225x2"	6	10
	FAS/090x2	90x2"	4	16			FAS/225x3	225x3"	6	10
	FAS/110x1/2	110x1/2"	6	16			FAS/225x4	225x4"	6	10
	FAS/110x3/4	110x3/4"	6	16			FAS/250x2	250x2"	6	10
	FAS/110x1	110x1"	6	16			FAS/250x3	250x3"	6	10
	FAS/110x1 1/4	110x1 1/4"	6	16			FAS/250x4	250x4"	6	10
	FAS/110x1 1/2	110x1 1/2"	6	16			FAS/280x2	280x2"	6	10
	FAS/110x2	110x2"	6	16			FAS/280x3	280x3"	6	10
	FAS/114x2	114x2"	6	16			FAS/280x4	280x4"	6	10
	FAS/125x1/2	125x1/2"	6	16			FAS/315x2	315x2"	6	10
	FAS/125x3/4	125x3/4"	6	16			FAS/315x3	315x3"	6	10
	FAS/125x1	125x1"	6	16			FAS/315x4	315x4"	6	10

Alprene Poly16 branching saddles are designed for installation on all metric pipes. The strength of the joint lies in the specially developed profile gasket. It offers more safety in case of water hammer, oval or scratched pipes. The sturdy construction with reinforcing ribs has been designed for use under the harshest on-site conditions. The extra long, stainless steel reinforcement ring in the outlet branch prevents cracking, even with high torques. The working pressures for the branch saddles are 16 bar (at 20 °C water) for up to 160mm (o.d.) and 10 bar (at 20 °C water) from 180mm to 315mm (o.d.).

PLASSON COMPRESSION TAPPING SADDLES WITH SWIVEL TEE

# THE SMARTER CHOICE.

## geberit mapress

**geberit**

### 316 STAINLESS STEEL CRIMPED PIPING SYSTEM

Geberit Mapress Stainless Steel is especially suited to drinking water installations and industrial applications. Separate fitting assortments for gas, solar and special applications. Thanks to the pressing technology, installations can be carried out reliably and quickly without complex connection methods.

316 ST.STEEL PIPE		
	Code	Size (OD)
<b>Pipe</b>	M39202	15
	M39204	22
	M39205	28
	M39206	35
	M39207	42
	M39208	54
	M39209	76.1
	M39210	88.9
	M39211	108
6 Metre Lengths		

316 ST.STEEL COUPLINGS		
	Code	Size (OD)
<b>Coupling</b>	M32002	15
	M32004	22
	M32005	28
	M32006	35
	M32007	42
	M32008	54
	M32009	76.1
	M32010	88.9
	M32011	108
<b>Slip Coupling</b>	M32102	15
	M32104	22
	M32105	28
	M32106	35
	M32107	42
	M32108	54
	M32109	76.1
	M32110	88.9
	M32111	108

316 ST.STEEL PLAIN END BENDS		
	Code	Size (OD)
<b>45° Bend With Plain End</b>	M30702	15
	M30704	22
	M30705	28
	M32706	35
	M32707	42
	M32708	54
	M32709	76.1
	M32710	88.9
	M32711	108
<b>90° Bend With Plain End</b>	M30302	15
	M30304	22
	M30305	28
	M33306	35
	M33307	42
	M33308	54
	M33309	76.1
	M33310	88.9
	M33311	108

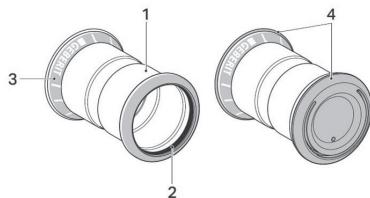


Figure 1: Structure of Geberit Mapress pressfitting

- 1 Pressfitting
- 2 Seal ring
- 3 Pressing indicator
- 4 Protection plug

316 ST.STEEL BENDS		
	Code	Size (OD)
<b>Bend 15°</b>	M36101	15
	M36103	22
	M36104	28
	M36105	35
	M36106	42
	M36107	54
	M36108	76.1
	M36109	88.9
	M36110	108
<b>Bend 30°</b>	M36121	15
	M36123	22
	M36124	28
	M36125	35
	M36126	42
	M36127	54
	M36128	76.1
	M36129	88.9
	M36130	108
<b>Bend 45°</b>	M30601	12
	M30602	15
	M30604	22
	M30605	28
	M32606	35
	M32607	42
	M32608	54
	M32609	76.1
	M32610	88.9
	M32611	108
<b>Bend 60°</b>	M36161	15
	M36163	22
	M36164	28
	M36165	35
	M36166	42
	M36167	54
	M36168	76.1
	M36169	88.9
	M36170	108
<b>Bend 90°</b>	M30102	15
	M30104	22
	M30105	28
	M31106	35
	M31107	42
	M31108	54
	M31109	76.1
	M31110	88.9
	M31111	108

# GEBERIT MAPRESS

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## 316 STAINLESS STEEL CRIMPED PIPING SYSTEM

### 316 ST.STEEL ELBOWS

	Code	Size (OD)		Code	Size (OD)
<b>90° Elbow Adaptor With Female Thread</b>	M33803	15 x Rp		M33833	15 x R ½"
	M33802	15 x Rp ½"		M33835	22 x R ¾"
	M33805	22 x Rp ¾"		M33836	28 x R 1"
	M33806	28 x Rp 1"		M33837	35 x R 1¼"
	M33807	35 x Rp 1¼"		M33838	42 x R 1½"
<b>90° Elbow Adaptor With Female Thread And Plain End</b>	M33203	15 x Rp ½"		M33839	54 x R 2"

### 316 ST.STEEL TEES

	Code	Size (OD)		Code	Size (OD)
<b>Equal Tee</b>	M31002	15		M33005	15 x 12 x 15
	M31004	22		M31227	22 x 15 x 18
	M31005	28		M31206	22 x 15 x 22
	M31006	35		M31234	28 x 22 x 22
	M31007	42		M31211	28 x 22 x 28
	M31008	54		M31212	35 x 15 x 35
	M31009	76.1		M31235	35 x 22 x 28
	M31010	88.9		M31214	35 x 22 x 35
	M31011	108		M31242	35 x 28 x 28
				M31215	35 x 28 x 35
				M31216	42 x 15 x 42
<b>90° Offset Tee Elbow</b>	M33423	15 x Rp ½ x L650		M31243	42 x 22 x 35
				M31218	42 x 22 x 42
				M31251	42 x 28 x 35
				M31219	42 x 28 x 42
				M31220	42 x 35 x 42
<b>Tee With Female Thread</b>	M31304	15 x Rp ½ x 15		M31221	54 x 15 x 54
	M31307	22 x Rp ½ x 22		M31223	54 x 22 x 54
	M31308	22 x Rp ¾ x 22		M31224	54 x 28 x 54
	M31311	28 x Rp 1 x 28		M31225	54 x 35 x 54
	M31309	28 x Rp ½ x 28		M31226	54 x 42 x 54
	M31310	28 x Rp ¾ x 28		M31229	76.1 x 22 x 76.1
	M31312	35 x Rp ½ x 35		M31230	76.1 x 28 x 76.1
	M31313	35 x Rp ¾ x 35		M31231	76.1 x 35 x 76.1
	M31316	42 x Rp ½ x 42		M31232	76.1 x 42 x 76.1
	M31317	42 x Rp ¾ x 42		M31233	76.1 x 54 x 76.1
	M31320	54 x Rp ½ x 54		M31236	88.9 x 22 x 88.9
	M31324	54 x Rp 2 x 54		M31237	88.9 x 28 x 88.9
	M31321	54 x Rp ¾ x 54		M31238	88.9 x 35 x 88.9
	M31329	76.1 x Rp 2 x 76.1		M31239	88.9 x 42 x 88.9
	M31326	76.1 x Rp ¾ x 76.1		M31240	88.9 x 54 x 88.9
	M31334	88.9 x Rp 2 x 88.9		M31241	88.9 x 76.1 x 88.9
	M31331	88.9 x Rp ¾ x 88.9		M31244	108 x 22 x 108
	M31339	108 x Rp 2 x 108		M31245	108 x 28 x 108
<b>Tee With Male Thread</b>	M31454	15 x Rp ½ x 15		M31246	108 x 35 x 108
	M31401	15 x Rp x 15		M31247	108 x 42 x 108
	M31458	22 x Rp ¾ x 22		M31248	108 x 54 x 108
	M31461	28 x Rp 1 x 28		M31249	108 x 76.1 x 108
	M31464	35 x Rp ¼ x 35		M31250	108 x 88.9 x 108

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## geberit mapress

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### 316 STAINLESS STEEL CRIMPED PIPING SYSTEM

#### 316 ST.STEEL REDUCERS

	Code	Size (OD)
<b>Reducer With Plain End</b>	M33002	15 x 12
	M32305	22 x 15
	M32307	28 x 15
	M32309	28 x 22
	M32310	35 x 15
	M32312	35 x 22
	M32313	35 x 28
	M32314	42 x 15
	M32316	42 x 22
	M32317	42 x 28
	M32318	42 x 35
	M32319	54 x 15
	M32321	54 x 22
	M32322	54 x 28
	M32323	54 x 35
	M32324	54 x 42
	M32331	76.1 x 54
	M32338	88.9 x 54
	M32339	88.9 x 76.1
	M32345	108 x 54
	M32346	108 x 76.1
	M32348	108 x 88.9

#### 316 ST.STEEL UNIONS

	Code	Size (OD)
<b>Union</b>	M35390	15 x G 3/4"
	M35392	22 x G 1"
	M35393	28 x G 1 1/4"
	M35394	35 x G 1 1/2"
	M35395	42 x G 1 3/4"
	M35396	54 x G 2 3/8"

Union nut made of crni steel

#### 316 ST.STEEL ADAPTOR UNIONS

	Code	Size (OD)
<b>Adaptor Union With Female Thread</b>	M35350	15 x Rp 1/2" x G 3/4"
	M35357	15 x Rp 3/4" x G 3/4"
	M35359	22 x Rp 1" x G 1"
	M35352	22 x Rp 3/4" x G 1"
	M35353	28 x Rp 1" x G 1 1/4"
	M35354	35 x Rp 1 1/4" x G 1 1/2"
	M35355	42 x Rp 1 1/2" x G 1 3/4"
	M35356	54 x Rp 2" x G 2 3/8"

Union nut made of crni steel

	Code	Size (OD)
<b>Adaptor Union Male Thread</b>	M35360	15 x R 1/2" x G 3/4"
	M35361	15 x R 3/4" x G 3/4"
	M35366	22 x R 1" x G 1"
	M35364	22 x R 1/2" x G 1"
	M35365	22 x R 3/4" x G 1"
	M35367	28 x R 1" x G 1 1/4"
	M35368	35 x R 1 1/4" x G 1 1/2"
	M35369	42 x R 1 1/2" x G 1 3/4"
	M35370	54 x R 2" x G 2 3/8"

Union nut made of crni steel

#### 316 ST.STEEL ADAPTORS

	Code	Size (OD)
<b>Adaptor, Female Thread</b>	M31802	15 x Rp 1/2"
	M31823	15 x Rp 3/4"
	M31801	15 x Rp 3/8"
	M31824	22 x Rp 1"
	M31805	22 x Rp 1/2"
	M31806	22 x Rp 3/4"
	M31825	28 x Rp 1 1/4"
	M31809	28 x Rp 1"
	M31807	28 x Rp 1/2"
	M31819	28 x Rp 3/4"
	M31826	35 x Rp 1 1/2"
	M31811	35 x Rp 1 1/4"
	M31820	35 x Rp 1"
	M31814	42 x Rp 1 1/2"
	M31821	42 x Rp 1 1/4"
	M31822	54 x Rp 1 1/2"
	M31818	54 x Rp 2"
	M36130	108
<b>Adaptor, Male Thread, Plain End</b>	M31932	15 x R 1/2"
	M31936	22 x R 3/4"
	M31937	28 x R 1"
	M31938	35 x R 1 1/4"
	M31939	42 x R 1 1/2"
	M31940	54 x R 2"
<b>Adaptor, Male Thread, NPT</b>	M31833	15 x R 1/2"
	M31837	22 x R 3/4"
	M31838	28 x R 1"
	M31839	35 x R 1 1/4"
	M31840	42 x R 1 1/2"
	M31841	54 x R 2"
<b>Adaptor, Male Thread</b>	M31703	15 x R 1/2"
	M31714	15 x R 3/4"
	M31726	15 x R 3/8"
	M31716	22 x R 1"
	M31715	22 x R 1/2"
	M31707	22 x R 3/4"
	M31718	28 x R 1 1/4"
	M31708	28 x R 1"
	M31717	28 x R 3/4"
	M31720	35 x R 1 1/2"
	M31709	35 x R 1 1/4"
	M31719	35 x R 1"
	M31710	42 x R 1 1/2"
	M31721	42 x R 1 1/4"
	M31722	54 x R 1 1/2"
	M31711	54 x R 2"
	M31713	76.1 x R 2 1/2"
	M31724	88.9 x R 3"
<b>Adaptor With Union Nut</b>	M35132	15 x G 3/4"
	M35134	22 x G 1"
	M35075	28 x G 1 1/2"

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## 316 STAINLESS STEEL CRIMPED PIPING SYSTEM

### 316 ST.STEEL END CAPS

	Code	Size (OD)
<b>Cap</b>	M33212	15
	M33214	22
	M33215	28
	M33216	35
	M33217	42
	M33218	54
	M33219	76.1
	M33220	88.9
	M33221	108

### 316 ST.STEEL FLANGES

	Code	Size (OD)
<b>Flange PN 10/16 Plain End</b>	M33748	54
	M33749	76.1
	M33750	88.9
	M33752	108
<b>Flange PN 10/16 With Pressing Socket</b>	M33732	15
	M33734	22
	M33735	28
	M33736	35
	M33737	42
	M33738	54
	M33739	76.1
	M33740	88.9
	M33741	108
<b>Flanged Stub With Plain End For Loose Flange PN 10/16</b>	M36141	22
	M36142	28
	M36143	35
	M36144	42
	M36145	54
	M36146	76.1
	M36147	88.9
	M36148	108
<b>Seal Ring, CIIR, Black</b>	M90402	15
	M90404	22
	M90405	28
	M90406	35
	M90407	42
	M90408	54
	M90409	76.1
	M90410	88.9
	M90411	108
<b>Seal Ring, FKM, Blue</b>	M90881	12
	M90882	15
	M90884	22
	M90885	28
	M90886	35
	M90887	42
	M90888	54
	M90891	76.1
	M90893	108

### 316 ST.STEEL EXPANSION FITTINGS

	Code	Size (OD)
<b>Axial Expansion Fitting With Pressing Sockets</b>	M33935	28 x 39
	M33936	35 x 46
	M33937	42 x 56
	M33938	54 x 70
	M33939	76.1 x 88
	M33940	88.9 x 117
	M33941	108 x 144

### 316 ST.STEEL VALVES

	Code	Size (OD)
<b>316 SS Ball Valve With Lever Handle, CIIR/PTFE</b>	M92100	15
	M92102	22
	M92103	28
	M92104	35
	M92105	42
	M92106	54
	M92107	76.1
	M92108	88.9
	M92109	108
<b>316 SS Non-Return Valve, CIIR/PTFE</b>	M92140	15
	M92142	22
	M92143	28
	M92144	35
	M92145	42
	M92146	54
	M92147	76.1
	M92148	88.9
	M92149	108

### MAPRESS ST.STEEL TOOLING

	Code
<b>Mapress Starter Kit</b>	MPRESSKIT
	
Suitable For D15-35mm, incl: ACO 203 pressing tool, jaws, battery, charger, deburrer and marking tools	
<b>Pressing Tool, In Case</b>	<b>ACO 203 (2), AS/NZS 3112</b>
	M691.218.P6.1
	M691.228.P6.1
<b>Li-Ion Battery, 18V</b>	M690.599.00.1
<b>Battery Charger, 18V, AS/NZS 3112</b>	M690.598.P6.1
<b>Brunox Turbo-Spray</b>	M90000

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**GEBERIT MAPRESS**

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**316 STAINLESS STEEL CRIMPED PIPING SYSTEM**

<b>MAPRESS ST.STEEL TOOLING</b>		
	Code	Size (OD)
<b>Pressing Jaw (2)</b> 	M90532 M90534 M90535 M90536	15 22 28 35
<b>Pressing Collar Set (2), In Case</b>	M691.296.00.2	42-54
<b>Pressing Collar Set (2XL), In Case</b>	M691.188.00.1	76.1/88.9
<b>Pressing Collar Set (2XL), In Case</b>	M691.189.00.1	108
<b>Adaptor Jaw (2XL)</b>	M691.186.00.1	76.1/88.9 & 108
<b>Adaptor Jaw ZB222 (2XL)</b>	M691.187.00.1	108
<b>Case For Pressing Jaw (2),(3)</b> 	M691.137.00.1	
<b>Insertion Distance Template With Marker Pen</b> 	M90351	12 - 108
<b>Marker Pen</b>	M90358	
<b>Pipe Deburrer</b> 	M90363	12 - 54
<b>Pressure Test Plug</b> 	M90922 M90924 M90925 M90926 M90927 M90928 M90929 M90930 M90931	15 22 28 35 42 54 76.1 88.9 108
<b>Pipe Cutter</b> 	M91088	12 - 54
<b>Set Of Cutting Wheels For Pipe Cutter</b>	M91092	12 - 54

# MECHANICAL

## COUPLERS AND ADAPTORS

### GF WAGA MULTI JOINT FITTINGS

	Code	Size		Code	Size
<b>Restraint Coupling</b>  (6301)	FWC/050	50mm	<b>Restraint Reducing Flange</b> 	FWFLR/225x200	225x200mm
	FWC/065	65mm		FWFLR/250x225	250x225mm
	FWC/080	80mm			
	FWC/100	100mm			
	FWC/125	125mm			
	FWC/150	150mm			
	FWC/200	200mm			
	FWC/225	225mm			
	FWC/250	250mm			
	FWC/300	300mm			
	FWC/350	350mm			
	FWC/400	400mm			
	FWC/450	450mm			
	FWC/500	500mm			
	FWC/550	550mm			
	FWC/600	600mm			
<b>Restraint Flange</b>  (6306)	FWFL/050	50mm	<b>Restraint Reducing Coupling</b> 	FWCR/065x050	65 x 50mm
	FWFL/065	65mm		FWCR/080x065	80 x 65mm
	FWFL/080	80mm		FWCR/100x080	100 x 80mm
	FWFL/100	100mm		FWCR/125x100	125 x 100mm
	FWFL/125	125mm		FWCR/150x100	150 x 100mm
	FWFL/150	150mm		FWCR/150x125	150 x 125mm
	FWFL/200	200mm		FWCR/200x150	200 x 150mm
	FWFL/250	250mm		FWCR/225x200	225 x 200mm
	FWFL/300	300mm		FWCR/250x225	250 x 225mm
	FWFL/350	350mm		FWCR/300x250	300 x 250mm
	FWFL/400	400mm			
	FWFL/450	450mm			
	FWFL/500	500mm			
	FWFL/550	550mm			
	FWFL/600	600mm			
			<b>Restraint Blind End Cap</b>  (6301)	FWCAP/050	50mm
				FWCAP/065	65mm
				FWCAP/080	80mm
				FWCAP/100	100mm
				FWCAP/125	125mm
				FWCAP/150	150mm
				FWCAP/200	200mm
				FWCAP/225	225mm
				FWCAP/250	250mm
				FWCAP/300	300mm

- Threaded end caps available on request.
- **Insert wedge must be used on PE / PVC pipes.**

The Asmuss multi joint range of pipe couplings, offer a mechanical jointing method with end load restraint for all common pipe materials. The fittings are designed to accept a wide variation in pipe size allowing a single fitting to be used on any common pipe material in a given size.

**PE, PVC, ABS, PP, AC, CAST IRON, DUCTILE IRON, STEEL, STAINLESS, COPPER...**

### SIZING

Asmuss multi joint fittings are wide range couplings and will fit any pipe material in a given pipe dimension.

DN (mm)	Range - OD (mm)
50	46 - 71
65	63 - 90
80	84 - 105
100	104 - 132
125	132 - 155
150	154 - 192
200	192 - 232
225	230 - 268
250	267 - 310
300	315 - 356
350	352-393
400	392-433
425	432-464
450	450-482
475	481-513
500	500-532
550	548-580
600	605-637

### PRESSURE RATINGS

Please refer to the table below for restraint & non-restraint pressure ratings.

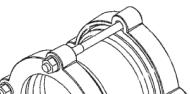
RESTRAINT		NON-RESTRAINT	
<b>MULTI/JOINT® 3000 Plus with Fikser</b>		<b>MULTI/JOINT® 3000 Plus without Fikser</b>	
   		   	
DN	Torque (Nm)	MOP gas [bar]	PFA water [bar]
DN50	30		
DN65	40		
DN80	60		
DN100			
DN125	100		
DN150			
DN200	120		
DN225			
DN250	140		
DN300			
DN350	140		
DN400			
8		16	
8**		16**	
DN	Torque (Nm)	MOP gas [bar]	PFA water [25 bar]
DN50	30		30
DN65	30		40
DN80	40		60
DN100			
DN125	80		100
DN150			
DN200			
DN225			
DN250			
DN300			
DN350			
DN400			
8		16	
120		25	

\*\* MOP 5 BAR GAS / PFA 10 BAR WATER FOR PLASTIC PIPE MATERIALS

**THE SMARTER CHOICE.**

# MECHANICAL

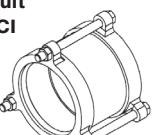
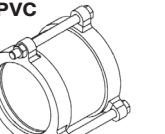
## **COUPLERS, DISMANTLING JOINTS, GIBAULTS**

NYLON COATED UNIVERSAL POSISEAL MECHANICAL COUPLERS										
	Code	NB (mm)	Size Range (mm)				Code	NB (mm)	Size Range (mm)	
<b>Posiseal Coupler</b> 	DIPSC050	50	59-72				<b>Posiflange Adaptor</b> 	DIPSFC050	50	59-72
	DIPSC080	80	88-103					DIPSFC080	80	88-103
	DIPSC100	100	107-128					DIPSFC100	100	109-128
	DIPSC125	125	132-153					DIPSFC150	150	159-182
	DIPSC150	150	159-182					DIPSFC200	200	218-235
	DIPSC200	200	218-235					DIPSFC250TE	250	272-289
	DIPSC225	225	242-267					DIPSFC300L	300	332-349
	DIPSC250	250	272-289					DIPSFC300XL	300	315-349
	DIPSC300L	300	332-349					DIPSFC375	375	398-429
	DIPSC300S	300	315-332					DIPSFC500	500	498-516
	DIPSC300XL	300	315-349							
	DIPSC350	350	351-378							
	DIPSC375	375	398-429							
	DIPSC500	500	498-516							

## **DISMANTLING JOINTS**

Product Description	Code	NB (mm)
<p>Asmuss Dismantling Joints are a double flanged fitting that provides easy installation and disassembly of flanged fittings such as valves, meters and pumps in a pipe network. These fittings are suitable for water, waste water and gas reticulation as well as power generation and industrial cooling systems.</p> 	<b>Fully Restrained Dismantling Joint AS 4087, PN16 316 SS Rods</b>	DIDJ350SS DIDJ375SS DIDJ400SS DIDJ500SS DIDJ600SS 350mm 375mm 400mm 500mm 600mm

## **NYLON COATED GIBAULTS**

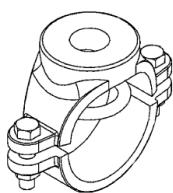
	Code	NB (mm)	OD (mm)		Code	NB (mm)	OD (mm)
<b>Gibault</b> <b>PVC / PVC</b>	CIGP050-N	50	60		CIGPS250-N	250	281 / 273
	CIGP065-N	65	75		CIGPS300-N	300	315 / 324
	CIGP080-N	80	89		CIGPS375-N	375	400 / 406
	CIGP100-N	100	114				
	CIGP125-N	125	140				
	CIGP150-N	150	160				
	CIGP155-N	155	168				
	CIGP175-N	175	200				
	CIGP175155-N	175 / 155	200 / 168				
	CIGP190-N	190	219				
	CIGP190175-N	190 / 175	219 / 200				
	CIGP200-N	200	225				
	CIGP200190-N	200 / 190	225 / 219				
	CIGP225-N	225	250				
	CIGP225190-N	225 / 190	250 / 219				
	CIGP250-N	250	281				
	CIGP300-N	300	315				
	CIGP375-N	375	400				
<b>Gibault</b> <b>PVC / Blank</b>	CIGP080BC-N	80	89				
	CIGP100BC-N	100	114				
	CIGP125BC-N	125	140				
	CIGP150BC-N	150	160				
	CIGP155BC-N	155	168				
	CIGP175BC-N	175	200				
	CIGP190BC-N	190	219				
	CIGP200BC-N	200	225				
	CIGP225BC-N	225	250				
	CIGP250BC-N	250	281				
	CIGP300BC-N	300	315				

# MECHANICAL

## GIBAULTS, TAPPING BANDS

### NYLON COATED TAPPING BANDS FOR SERIES 1 PVC PIPE

	Code	NB (mm)	OD (mm)	Offtake Range, BSP
<b>"Tapping Band For Series 1 PVC Pipe"</b>	CITBP0500XX-N	50	60	15 - 40
	CITBP0650XX-N	60	75	15 - 40
	CITBP0800XX-N	80	89	15 - 50
	CITBP1000XX-N	100	114	15 - 50
	CITBP1250XX-N	125	140	15 - 50
	CITBP1500XX-N	150	160	15 - 50
	CITBP1550XX-N	155	168	15 - 50
	CITBP1750XX-N	175	200	15 - 50
	CITBP1900XX-N	190	219	15 - 50
	CITBP2000XX-N	200	225	15 - 50
	CITBP200100-N	200	225	100
	CITBP2250XX-N	225	250	15 - 50
	CITBP2500XX-N	250	281	20 - 50
	CITBP3000XX-N	300	315	32 - 50
	CITBP300100-N	300	315	100
	CITBP375050-N	375	400	50
	CITBP375100-N	375	400	100



\* Replace XX with  
required offtake size  
when ordering

## WANG MECHANICAL



### COUPLINGS AND REPAIR CLAMPS

Wang Components is one of the leading manufacturers and suppliers of grade 316 clamps and couplings for reticulated water, sewerage and gas distribution mains and industrial piping systems. The product range is widely utilised and specified by Water Authorities throughout Australia and New Zealand for both installation and maintenance of their reticulation network.

The Wang range is extensive covering all pipe diameter's and configurations with off the shelf and custom made fabrications. This price list covers a core range of commonly used products. If you do not see the size or configuration you require please do not hesitate to contact our sales team.

#### Related Documents:

Refer to our website [www.asmuss.co.nz](http://www.asmuss.co.nz) for the full range of Wang Fittings and technical specifications.

WANG REPAIR CLAMPS				
	Code	Pipe (NB) mm	Range (OD) mm	Length mm
<b>Repair Clamp PN16 316 SS</b>	K2-085AB	80	85-92	200
	K2-095AB	80	95-105	200
	K2-100AB	100	100-110	200
	K2-110AB	100	110-120	200
	K2-114AB	100	114-124	200
	K2-120AB	100	120-130	200
	K2-150AB	150	150-160	200
	K2-160AB	150	160-170	200
	K2-175AB	150	175-185	200
	K2-215AB	200	215-225	200
	K2-230AB	200	230-240	200
	K3-059AC	50	59-64	300
	K3-085AC	80	85-92	300
	K3-095AC	80	95-105	300
	K3-150AC	150	150-160	300
	K3-160AC	150	160-170	300
	K3-215AC	200	215-225	300
	K3-230AC	200	230-240	300



<b>Small Repair Clamps</b>	KKFGAL1-015G	15	21	75
	KKFGAL1-020G	20	27	75
	KKFGAL1-025G	25	33	75
	KKFGAL1-032G	32	42	75
	KKFGAL1-040G	40	48	75
	KKFGAL1-050G	50	60	75
	KKFGAL2-050G	50	60	150



<b>Repair Clamps PN16 316 SS Tapped</b>	K2-110T050AB	100	110-120	200
	K2-114T050AB	100	114-124	200
	K2-120T050AB	100	120-130	200
	K2-160T050AB	150	160-170	200
	K2-215T050AB	200	215-225	200
	K3-230T050AC	200	230-240	300

\*50mm BSP Offtake

WANG VARI-GIB COUPLINGS				
	Code	Pipe (NB) mm	Range (OD) mm	Length mm
<b>Wang VARI-GIB Straight Coupling PN16 FC/FC SS</b>	KV0059DAS	50	059-071	110
	KV0072DAS	65	072-084	110
	KV0088DAS	80	088-103	110
	KV0123DAS	125	123-147	110
	KV0170DAS	150	170-194	110



<b>Wang VARI-GIB Straight Coupling PN16 SS/FC SS</b>	KV0109AAS	100	109-133	110
	KV0158AAS	150	158-182	110
	KV0214ACS	200	214-238	176
	KV0240ACS	225	240-264	176
	KV0272ACS	250	272-296	176
	KV0310ADS	300	310-334	216
	KV0330ADS	300	330-354	216



<b>Wang VARI-GIB Straight Coupling PN16 SS/SS SS</b>	KV0410CDS	375	410-434	216
	KV0444CDS	400	444-468	216
	KV0488CDS	450	488-512	216
	KV0498CDS	450	498-522	216
	KV0522CDS	500	522-546	216



<b>VGIB Blank End PN16. DI. SS Bolts</b>	KVB0109DS	100	109-133	
	KVB0158DS	150	158-182	
	KVB0214DS	200	214-238	
	KVB0330DS	300	330-354	



<b>VGIB Flange Adaptor PN16 AS4087. DI. SS Bolts</b>	KVFA0109F100DSC	100	109-133	
	KVFA0158F150DSC	150	158-182	



# CHEMICAL WASTE SYSTEM

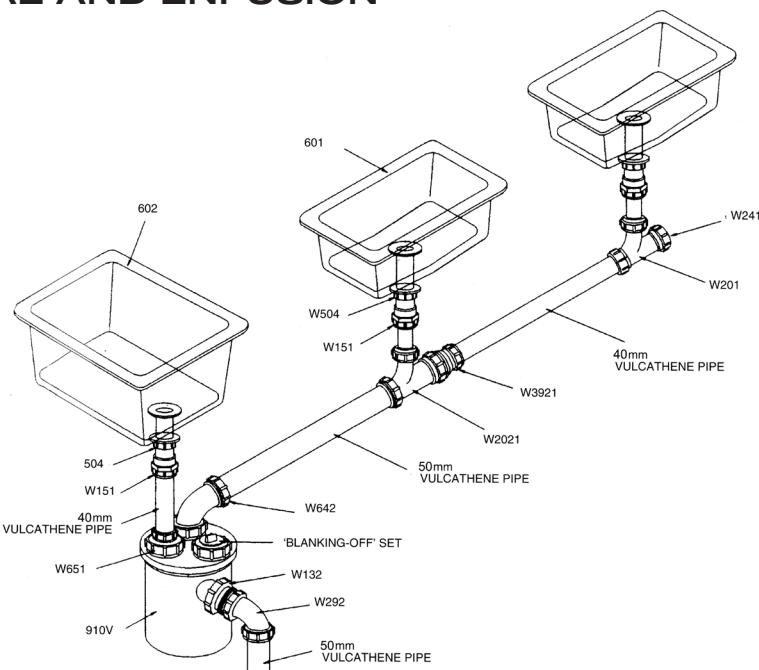


## VULCATHENE MECHANICAL AND ENFUSION

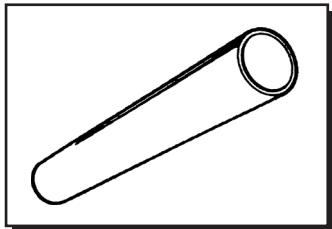
**Vulcathene Chemical Waste System** provide a comprehensive, corrosion resistant answer to severe industrial, trade and laboratory discharges.

This is a complete range of pipes and fittings in nominal sizes 40mm to 150mm with specialist accessories such as drip cups, antisiphons, dilution traps, sinks, etc.

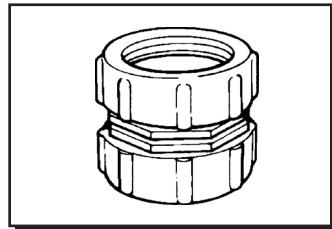
Produced under ISO 9002 and QAS/48/4836/22 quality standards, Vulcathene holds BBA certification No 9/2805 for all its mechanical system, together with US NSF approvals and complies with AS/NZS 3500.2.2 with many above and below ground installations completed over the years.



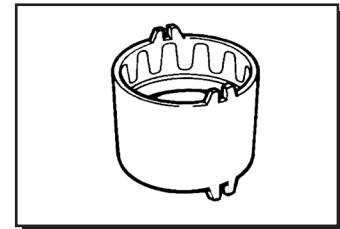
Vulcathene Pipe



Coupler



Enfusion



### VULCATHENE PIPE

	Code	Size NB (mm)	Internal Diameter (mm)	External Diameter (mm)	Nom. Wall Thickness (mm)
Pipe	PVW0011	40	37.6	47.6	5.0
	PVW0012	50	50.3	60.3	5
	PVW0013	80	76	89	6.5
	PVW0014	100	102.3	114.3	6
	PVW0016	150	150.3	168.3	9

### VULCATHENE MECHANICAL FITTING SYSTEM

	Code	Size NB (mm)		Code	Size NB (mm)
92½° Bend	FVW181	40	92½° Loose Nut Bend	FVW211	40
	FVW182	50		FVW212	50
	FVW183	80		FVW213	80
	FVW184	100		FVW214	100
92½° Loose Nut Bend	FVW291	40	135° Bend	FVW191	40
	FVW292	50		FVW192	50
	FVW293	80		FVW193	80
	FVW294	100		FVW194	100
Pipe Coupler	FVW161	40	U Bend	FVW701	40
	FVW162	50		FVW702	50
	FVW163	80			
	FVW164	100			

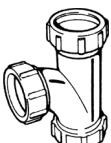
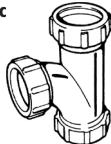
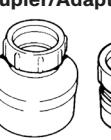
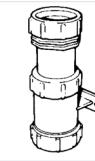
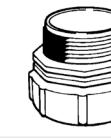
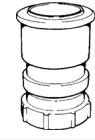
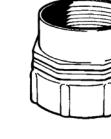
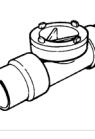
# THE SMARTER CHOICE.

## CHEMICAL WASTE SYSTEM

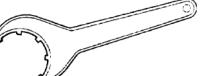
 Vulcathene

### VULCATHENE MECHANICAL AND ENFUSION

#### VULCATHENE MECHANICAL FITTING SYSTEM

	Code	Size NB (mm)		Code	Size NB (mm)
<b>92½° Equal Sweep Tee</b> 	FVW201 FVW202 FVW203 FVW204	40 50 80 100	<b>2½" FI to Pipe Coupler</b> 	FVW132	50
<b>92½° Reduced Branch Tee</b> 	FVW2021	50 x 40	<b>1¼" FI to 1½" MI BSP Reducer</b> 	FVW121	40
<b>45° Single Wye</b> 	FVW371 FVW372 FVW373 FVW374	40 50 80 100	<b>FI to Pipe Coupler</b> 	FVW271	40 x 1¼"
<b>45° Double Wye</b> 	FVW381 FVW382 FVW383 FVW384	40 50 80 100	<b>Beaded Glass Adaptor</b> 	FVW451 FVW452 FVW453	40 50 80
<b>Reducing Coupler/Adaptor</b> 	FVW3921 FVW3931 FVW3932 FVW3941 FVW3942 FVW3943	50x40 80x40 80x50 100x40 100x50 100x80	<b>Thermal Stress Relief Unit</b> 	FVW801 FVW802	40 50
<b>MI to Pipe Coupler</b> 	FVW141 FVW142	40 x 1½" 50 x 2"	<b>Thermal Stress Relief Unit</b> 	FVW803 FVW804	80 100
<b>FI to Pipe Coupler</b> 	FVW151 FVW152	40 50	<b>Access Pipe (Spigot Ends)</b> 	FVW902 FVW903 FVW904	50 80 100
			<b>BS Table D Flange</b> 	FVWTD1 FVWTD2 FVWTD3 FVWTD4	40 50 80 100

#### VULCATHENE ACCESSORIES

	Code	Size NB (mm)		Code	Size NB (mm)
<b>No Heat Olive</b> 	FVW2211 FVW2221 FVW2231 FVW2241	40 50 80 100	<b>Spanner</b> 	FVW361 FVW362 FVW363 FVW364	40 50 80 100
<b>Nut</b> 	FVW231 FVW232 FVW233 FVW234	40 50 80 100	<b>Cutting Tool</b> 	FVW261 FVW262 FVW263 FVW264	40 50 80 100
<b>Blanking-Off Plug</b> 	FVW241 FVW242 FVW243 FVW244	40 50 80 100	<b>Vulcathene Lubricant</b> 	FVWLPL	

# **CHEMICAL WASTE SYSTEM**



# VULCATHENE MECHANICAL AND ENFUSION

## **VULCATHENE TRAPS, WASTES, SINKS AND ACCESSORIES**

**R and S Trans can be easily configured from Fittings:**

**P and S Traps can be easily configured from**

**S Trap** = 1 x U Bend + 2 x 92.5° Loose Nut Bends

# THE SMARTER CHOICE.

## CHEMICAL WASTE SYSTEM



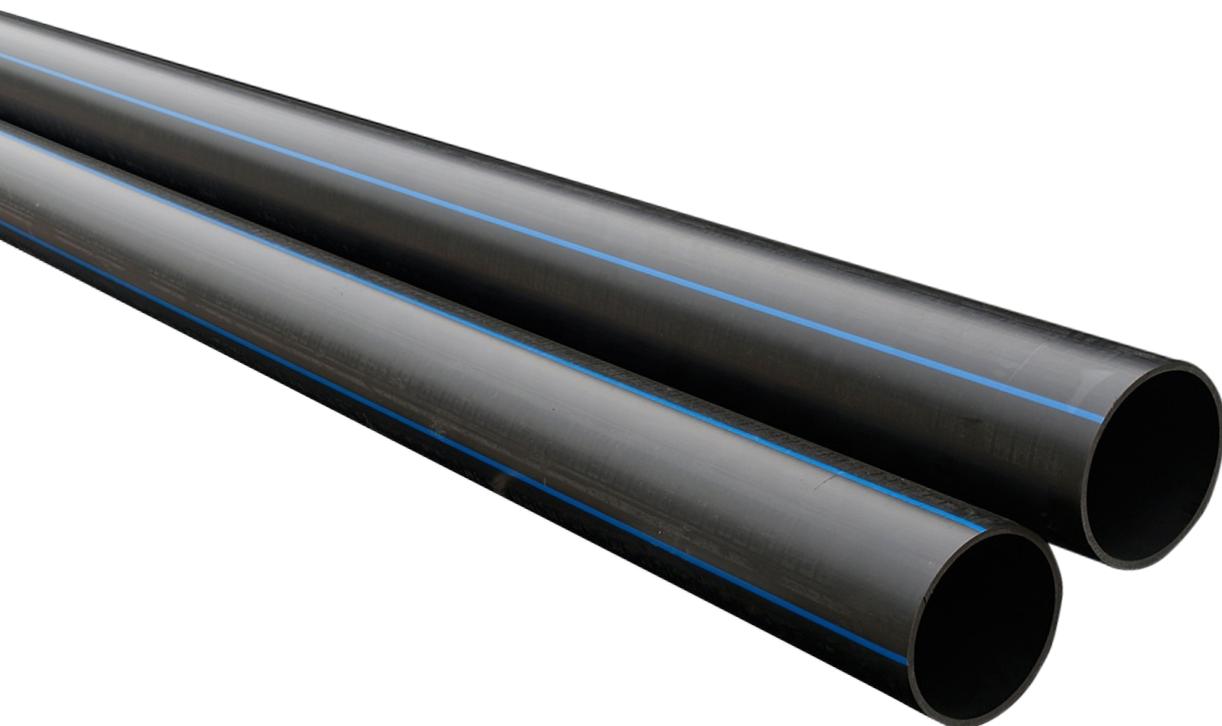
### VULCATHENE MECHANICAL AND ENFUSION

VULCATHENE ENFUSION FITTING SYSTEM						
	Code	Size NB (mm)			Code	Size NB (mm)
<b>Long Sweep Bend M and F</b>	FVL281	40		<b>92½° Equal Sweep Tee Socketed</b>	FVL201	40
	FVL282	50			FVL202	50
	FVL283	80			FVL203	80
	FVL284	100			FVL204	100
	FVL286	150		<b>92½° Reducing Sweep Tee Socketed</b>	FVL2031	80x40
<b>Socketed Long Sweep Bend</b>	FVL171	40			FVL2032	80x50
	FVL172	50		<b>Coupler (Socketed)</b>	FVL161	40
	FVL173	80			FVL162	50
	FVL174	100			FVL163	80
	FVL176	150			FVL164	100
<b>Socket Short Sweep Bend</b>	FVL181	40			FVL166	150
	FVL182	50		<b>Reducing Coupler (Socketed/Spigot)</b>	FVL3912	50x40
<b>Socketed 45° Bend</b>	FVL191	40			FVL3913	80x40
	FVL192	50			FVL3914	100x40
	FVL193	80			FVL3916	150x40
	FVL194	100			FVL3923	80x50
<b>Socket/Spigot 45° Slow Bend</b>	FVL211	40			FVL3924	100x50
	FVL212	50			FVL3926	150x50
	FVL213	80			FVL3934	100x80
	FVL214	100			FVL3936	150x80
<b>45° Single Wye (Socketed)</b>	FVL371	40			FVL3946	150x100
	FVL372	50		<b>FI to Pipe Coupler</b>	FVL151	40
	FVL373	80			FVL152	50
	FVL374	100		<b>'P' Trap (Socketed)</b>	FVLT13	80
	FVL376	150			FVLT14	100
<b>45° Reducing Wye (Socketed)</b>	FVL3721	50x40			FVLT16	150
	FVL3731	80x40		<b>U Bend (Socketed)</b>	FVL1011	40
	FVL3732	80x50			FVL1012	50
	FVL3742	100x50		<b>Access Pipe</b>	FVL902	50
	FVL3743	100x80			FVL903	80
	FVL3762	150x50			FVL904	100
	FVL3763	150x80		<b>Flange</b>	FVL361	40
	FVL3764	150x100			FVL362	50
<b>92½° Double Branch (Socketed)</b>	FVL351	40			FVL363	80
	FVL352	50			FVL364	100
	FVL353	80			FVL366	150
	FVL354	100		Bolts supplied separately. Also available undrilled		

ENFUSION ACCESSORIES						
	Code	Size NB (mm)			Code	Size NB (mm)
<b>Cleanout Plug</b>	FVL241	40		<b>Pipe Scraper</b>	PF53002001	n/a
	FVL242	50				
	FVL243	80				
	FVL244	100				
	FVL246	150		<b>Clamps (Socketed)</b>	FVL261	40
<b>Enfusion Control Box</b>	FVL2600				FVL262	50
	FVL2601				FVL263	80
<b>Link Cable</b>	FVL2610	n/a			FVL264	100
					FVL266	150

## POLYETHYLENE PIPE

PE80	PN12.5		PN10		PN8		PN6.3		PN5	
PE100	PN16		PN12.5		PN10		PN8		PN6.3	
OD	SDR11		SDR13.6		SDR17		SDR21		SDR26	
mm	Wall	ID	Wall	ID	Wall	ID	Wall	ID	Wall	ID
63	6.2	51	5.0	53	4.1	55	3.2	57	2.5	58
75	7.2	61	5.9	64	4.8	66	3.9	67	3.0	69
90	8.7	73	7.0	76	5.8	79	4.6	81	3.6	83
110	10.6	89	8.6	93	7.0	97	5.7	99	4.4	101
125	12.1	102	9.8	106	7.9	110	6.4	112	5.0	115
140	13.4	114	10.9	119	8.8	123	7.1	126	5.6	128
160	15.4	130	12.5	136	10.1	141	8.2	144	6.4	147
180	17.3	146	14.1	153	11.3	158	9.1	162	7.2	165
200	19.2	163	15.5	170	12.6	176	10.2	180	8.0	184
225	21.6	183	17.5	191	14.2	198	11.4	202	9.0	206
250	23.9	203	19.4	212	15.6	220	12.5	225	10.0	229
280	26.8	228	21.7	238	17.5	246	14.2	252	11.3	257
315	30.1	256	24.5	268	19.7	277	15.8	283	12.7	289
355	33.9	289	27.5	302	22.3	311	17.8	319	14.3	326
400	38.2	325	31.0	340	25.0	352	20.1	359	16.1	367
450	43.0	366	34.9	382	28.1	396	22.7	405	17.9	413
500	47.8	407	38.7	425	31.2	440	25.2	450	20.1	459
560	53.4	456	43.4	476	35.0	493	28.1	504	22.6	514
630	60.2	513	48.7	535	39.3	554	31.6	567	25.4	579
710	67.8	578	54.9	603	44.3	625	35.7	639	28.6	652
800	76.3	651	61.8	680	49.9	702	39.9	720	32.3	735
900	86.0	732	69.7	765	56.2	791	45.1	813	36.3	827
1000	91.5	813	77.3	852	62.3	879	50.2	904	40.3	919



# FLANGE DIMENSIONS

## AS 2129

Drilling compatible with: Table E

	50	65	80	100	125	150	200	225	250	300	350	375	400	450	500	600	700	750
Outside Diameter	150	165	185	215	255	280	335	370	405	455	525	550	580	640	705	825	910	995
Pitch Circle Diameter	114	127	146	178	210	235	292	324	356	406	470	495	521	584	641	756	845	927
No. of Holes	4	4	4	8	8	8	8	12	12	12	12	12	12	16	16	16	20	20
Diameter of Holes	18	18	18	18	18	22	22	22	22	26	26	26	26	26	26	33	33	36
Bolt Diameter	16	16	16	16	16	20	20	20	20	24	24	24	24	24	24	30	30	33
THICKNESS																		
Cast Iron - PN14	19	19	19	22	22	22	25	25	25	29	32	32	32	35	38	41	44	48

## EN1092 PN16

Drilling compatible with: BS 4504 PN16, DIN 2533 PN16, ISO 7005 PN16

	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700			
Outside Diameter	165	185	200	220	250	285	340	405	460	520	580	640	715	840	910			
Pitch Circle Diameter	125	145	160	180	210	240	295	355	410	470	525	585	650	770	840			
No. of Holes	4	4	8	8	8	8	12	12	12	16	16	20	20	20	20	24		
Diameter of Holes	18	18	18	18	18	22	22	27	27	27	30	30	33	36	36	36		
Bolt Diameter	16	16	16	16	16	20	20	24	24	24	27	27	30	33	33	33		
THICKNESS																		
Ductile Iron - PN16	19	19	19	19	19	19	20	22	25	27	28	30	32	36	40			

## ANSI B16.1 125lb

Drilling compatible with: ANSI B16.1 150lb

	50	65	80	100	125	150	200	250	300	350	400	450	500	600	750			
Outside Diameter	152	178	191	229	255	280	343	405	483	533	597	635	699	813	984			
Pitch Circle Diameter	121	140	152	191	216	241	298	362	432	476	540	578	635	749	914			
No. of Holes	4	4	4	8	8	8	8	12	12	12	16	16	20	20	28			
Diameter of Holes	19	19	19	19	22	22	22	25	25	29	29	32	32	35	35	35		
Bolt Diameter	16	16	16	16	20	20	20	22	22	25	25	29	29	32	32	32		
THICKNESS																		
Cast Iron - PN17	16	18	20	24	24	25	29	26	32	35	37	40	48	48	54			

## AS 4087

Drilling compatible with: AS2129 Table C &amp; D

	50	65	80	100	125	150	200	225	250	300	350	375	400	450	500	600	700	750
Outside Diameter	150	165	185	215	255	280	335	370	405	455	525	550	580	640	705	825	910	995
Pitch Circle Diameter	114	127	146	178	210	235	292	324	356	406	470	495	521	584	641	756	845	927
No. of Holes	4	4	4	4	8	8	8	8	12	12	12	12	12	16	16	20	20	20
Diameter of Holes	18	18	18	18	18	18	18	18	22	22	26	26	26	26	26	30	30	33
Bolt Diameter	16	16	16	16	16	16	16	16	20	20	24	24	24	24	24	27	27	33
THICKNESS																		
Ductile Iron - PN16			18	20		23	23	24	24	30		33		33	35	42		47
Steel - PN14	11	11	11	11	13	15	19	19	19	23	30	30	30	30	38	48		48

## AS 4087

Drilling compatible with: AS2129 Table F &amp; H

	50	65	80	100	125	150	200	225	250	300	350	375	400	450	500	600	700	750
Outside Diameter	165	185	205	230		305	370	405	430	490	550	580	610	675	735	850		1015
Pitch Circle Diameter	127	146	165	191		260	324	356	381	438	495	521	552	610	673	781		940
No. of Holes	4	8	8	8		12	12	12	12	16	16	16	20	20	24	24		28
Diameter of Holes	18	18	18	18		22	22	26	26	26	30	30	30	33	33	36		36
Bolt Diameter	16	16	16	16		20	20	24	24	24	27	27	30	30	33			33
THICKNESS																		
Ductile Iron - PN35			22	22		27	31	34	34	38		42		46	49	54		59
Steel - PN21	15	15	15	19		24	24	30	30	30	38	38	38	48	48	58		58
Steel - PN35	19	19	24	24		31	31	38	38	38	48	48	58	58	68			

# **NOTES**



## **NOTES**





# ASMUSS

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