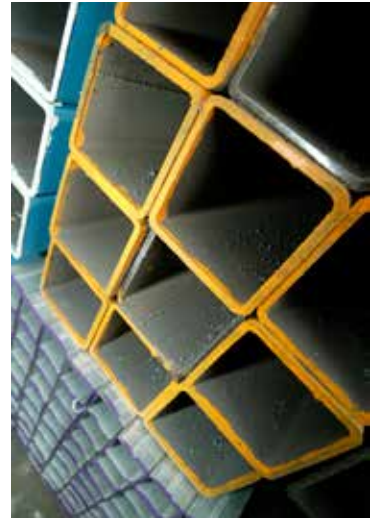




**Aemiss**

# Product Catalogue



**A focus on  
quality products,  
technical excellence  
and exceptional customer  
service has been the  
cornerstone of the  
Asmuss Group philosophy  
for nearly 100 years.**

Founded in 1920, H. J. Asmuss & Co. Ltd. is one of the largest privately-owned companies in its field and has supplied many of the biggest industrial and construction projects in New Zealand.

#### Nationwide coverage

With branches strategically located throughout New Zealand we are able to offer an efficient local delivery service backed up by staff who are experienced in the local market and understand the local area.

#### Comprehensive product range

We have over 200 suppliers sourced worldwide, including our exclusive agencies in the New Zealand market. With a comprehensive inventory in our warehouses, we are able to supply most of our product range within days.

#### Service driven

Our dedicated team of specialists is able to provide technical expertise, quick response for indent enquiries, and comprehensive after sales support. A total commitment to customer service and low staff turnover ensures we provide our customers with continuity and comprehensive knowledge.

We are continuously assessing the latest developments in industry, both nationally and internationally, and work closely with our suppliers to identify new products and technologies that will suit the requirements of the New Zealand market.

#### Proven track record

We have supplied some of the largest infrastructure projects in New Zealand, including:

- Fonterra Darfield dairy factory
- Tauranga Wharf extension
- Wairakei geothermal plant expansion
- Forsyth Barr Stadium
- Eden Park redevelopment
- Victoria Park tunnel
- Tekapo Canal Remediation
- Carlaw Park Redevelopment
- Chews Lane Apartments
- Port of Lyttleton rebuild
- Fergusson Wharf extension
- Vector Arena

#### Diverse industry sectors

Our products are used in a wide range of industries, including industrial and commercial construction, pulp and paper, dairy, agriculture and horticulture, power and energy generation, water and waste water, petrochemicals, fire protection, and heating and ventilation.

#### Quality management

We have comprehensive health and safety and quality control systems with ISO accreditation. Long standing relationships with our suppliers and service providers have ensured consistent supply of quality product, and many have internationally recognised quality systems.





#### [H. J. Asmuss & Co Ltd.](#)

At Asmuss we stock a comprehensive inventory, holding a full range of merchant bars, square and rectangular hollow sections, structural sections, plates, galvanised and plastic coated wire and an extensive range of pipes including galvanised, primed, NOPC, welded and seamless line pipes.

We also offer an in-house cut to length service for our structural products. Our indent department has access to the world's major steel mills to source that unique or non-standard product, or large project requirements.

A large range of fittings available include galvanised malleable, wrought steel, high pressure, ductile iron fittings, scaffold, roll grooved, carbon steel butt weld fittings, flanges and fencing fittings and accessories.

We manufacture and stock a comprehensive range of chain link netting that is widely used in security, sports ground, internal and domestic fencing. We also provide galvanised fence panels, a range of fence fittings and wire accessories.

A complete range of fastenings is available from high tensile bolts and nuts through structural assemblies to spring washers, flanged purlin bolts and nuts and stud bolts.

**Our Trading Division** offers supply of large volume product for infrastructure projects in particular, piling, (pipe, sheet and H-Pile), PC strand and plates for bridge fabrication.

**Our Valve Division** has a team of specialist personnel who provide technical support, assist with correct product selection, and can accurately size control valves with our valve sizing software.

With a comprehensive product range for the Pulp & Paper, Oil & Gas, Water & Wastewater, Power Generation, HVAC, Fire Protection and general industrial market sectors, we work with major end users and engineering consultants to provide product solutions for even the most complex valve requirements.

We represent some of the leading internationally recognised valve manufacturers who are on the cutting edge of product design and development, and in doing so provide superior product performance.



#### [Asmuss South Island](#)

The Asmuss South Island operation mirrors the product range of Asmuss North Island with the addition of metal fastenings and ductile iron (DI) pipe fittings.



#### [Asmuss Plastics](#)

Asmuss Plastic Systems is a distributor of pipeline systems servicing the civil infrastructure, industrial process and building services sectors. We source innovative technologies from around the world providing practical solutions for New Zealand trades and industries. Our global partners offer reputable brands, technical expertise and provide superior logistical capabilities.



#### [Asmuss Water Systems](#)

Asmuss Water Systems Ltd is a manufacturer of polyethylene pipes and a distributor of rectification systems for civil infrastructure, irrigation and industrial applications. We are a solutions-focused business and pride ourselves as industry leaders in the supply of quality pipeline systems. Our people and their dedication is what makes us successful.





This map indicates where our branches are located throughout the countries, providing a coordinated approach to best service our customers with product solutions tailored for their needs.

#### HJ Asmuss Branch Offices

**Auckland**  
6 Gabador Pl, Mt Wellington,  
Auckland 1060.  
P. 09 573 0002

**Waikato**  
40 Bryant Road, St Andrews,  
Hamilton 3200.  
P. 07 849 2410

**Mt Maunganui**  
40 Portside Drive,  
Mt Maunganui 3116.  
P. 07 574 1589

**Kawerau**  
K.E.A 2 Industrial Park, Manukorihi Rd,  
Kawerau 3127. P. 07 323 6198

**Taupo**  
144 Rakaunui Rd, Taupo  
P. 07 377 8416

**Taranaki**  
82 De Havilland Drive, Bell Block,  
New Plymouth 4312.  
P. 06 755 2570

**Wellington**  
11-13 Gough St, Seaview,  
Lower Hutt 5010  
P. 04 939 6699

#### Sales Offices

**Hawkes Bay**  
17 Titoki Cres, Pirimai West,  
Napier 4112  
P. 06 843 7900

#### Asmuss South Island Branch Offices

**Nelson**  
8 Saxton Rd, West Stoke,  
Nelson 7011  
P. 03 538 0351

**Christchurch**  
60-70 Detroit Drive, Rolleston,  
Christchurch 7075  
P. 03 347 1568

**Dunedin**  
Cnr White & Buller Streets,  
Dunedin 9016  
P. 03 477 2323

#### Asmuss Plastic Systems Branch Offices

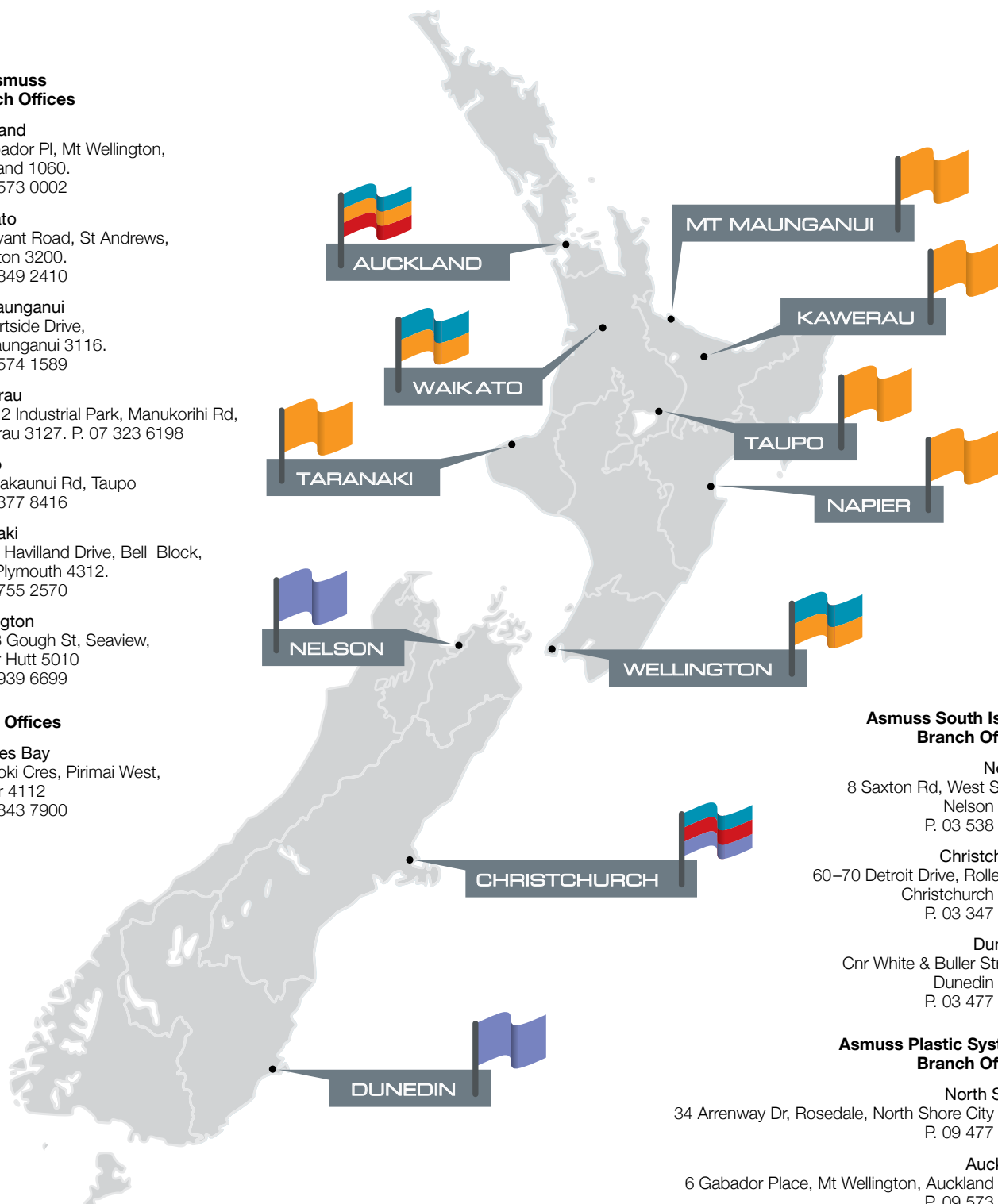
**North Shore**  
34 Arrenway Dr, Rosedale, North Shore City 0632  
P. 09 477 2320

**Auckland**  
6 Gabador Place, Mt Wellington, Auckland 1060  
P. 09 573 0030

**Christchurch**  
5 Paradyne Place, Wigram 8042  
P. 03 348 4087

#### Asmuss Water Systems

**Auckland**  
8 Clemow Dr, Mount Wellington, Auckland 1060  
P. 09 921 7230



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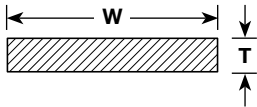
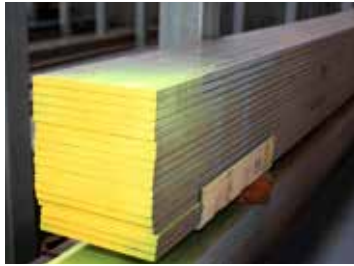
This catalogue showcases products available from the HJ Asmuss company.  
For other product information, please contact the relevant company within the Group.



**Steel**



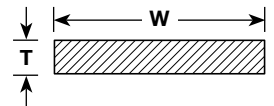
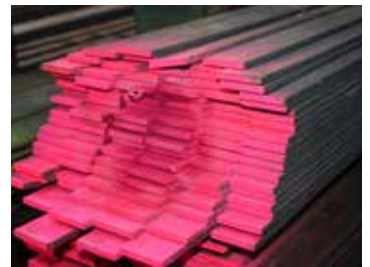
## Mild Steel Flats



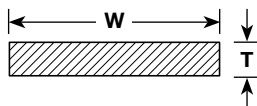
Mild Steel Flats AS/NZS 3679.1-300 or Equivalent				
ASMUSS CODE	WIDTH W	THICKNESS T	APPROX KG/M	LENGTH – METRES 6.0
SF01603	16	3	0.377	•
SF01605	16	5	0.628	•
SF02003	20	3	0.471	•
SF02005	20	5	0.785	•
SF02006	20	6	0.942	•
SF02010	20	10	1.570	•
SF02503	25	3	0.589	•
SF02505	25	5	0.981	•
SF02506	25	6	1.178	•
SF02508	25	8	1.570	•
SF02510	25	10	1.963	•
SF02512	25	12	2.355	•
SF03003	30	3	0.707	•
SF03005	30	5	1.178	•
SF03010	30	10	2.355	•
SF03203	32	3	0.754	•
SF03205	32	5	1.256	•
SF03206	32	6	1.507	•
SF03208	32	8	2.010	•
SF04003	40	3	0.942	•
SF04005	40	5	1.570	•
SF04006	40	6	1.884	•
SF04008	40	8	2.512	•
SF04010	40	10	3.140	•
SF04012	40	12	3.768	•
SF04016	40	16	5.024	•
SF05003	50	3	1.178	•
SF05005	50	5	1.963	•
SF05006	50	6	2.355	•
SF05008	50	8	3.140	•
SF05010	50	10	3.925	•
SF05012	50	12	4.710	•
SF05016	50	16	6.280	•
SF05020	50	20	7.850	•
SF05025	50	25	9.813	•

# Mild Steel Flats

Mild Steel Flats AS/NZS 3679.1-300 or Equivalent				
ASMUS CODE	WIDTH W	THICKNESS T	APPROX KG/M	LENGTH – METRES 6.0
SF06006	60	6	2.826	•
SF06010	60	10	4.710	•
SF06012	60	12	5.652	•
SF06503	65	3	1.531	•
SF06505	65	5	2.551	•
SF06510	65	10	5.103	•
SF06516	65	16	8.164	•
SF07503	75	3	1.766	•
SF07505	75	5	2.944	•
SF07506	75	6	3.533	•
SF07508	75	8	4.710	•
SF07510	75	10	5.888	•
SF07512	75	12	7.065	•
SF07516	75	16	9.420	•
SF07520	75	20	11.775	•
SF07525	75	25	14.719	•
SF08006	80	6	3.768	•
SF08010	80	10	6.280	•
SF08012	80	12	7.536	•
SF09006	90	6	4.239	•
SF09010	90	10	7.065	•
SF09012	90	12	8.478	•
SF10003	100	3	2.355	•
SF10005	100	5	3.925	•
SF10006	100	6	4.710	•
SF10008	100	8	6.280	•
SF10010	100	10	7.850	•
SF10012	100	12	9.420	•
SF10016	100	16	12.560	•
SF10020	100	20	15.700	•
SF10025	100	25	19.625	•
SF13005	130	5	5.103	•
SF13006	130	6	6.123	•
SF13008	130	8	8.164	•
SF13010	130	10	10.205	•



## Mild Steel Flats

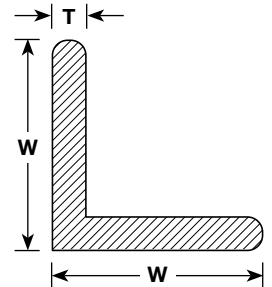


Mild Steel Flats AS/NZS 3679.1-300 or Equivalent				
ASMUSS CODE	WIDTH W	THICKNESS T	APPROX KG/M	LENGTH – METRES 6.0
SF13012	130	12	12.246	•
SF13016	130	16	16.328	•
SF13020	130	20	20.410	•
SF15006	150	6	7.065	•
SF15008	150	8	9.420	•
SF15010	150	10	11.775	•
SF15012	150	12	14.130	•
SF15016	150	16	18.840	•
SF15020	150	20	23.550	•
SF15025	150	25	29.438	•
SF18006	180	6	8.478	•
SF18010	180	10	14.130	•
SF18012	180	12	16.956	•
SF20006	200	6	9.420	•
SF20008	200	8	12.560	•
SF20010	200	10	15.700	•
SF20012	200	12	18.840	•
SF20016	200	16	25.120	•
SF20020	200	20	31.400	•
SF20025	200	25	39.250	•
SF23010	230	10	18.055	•
SF25006	250	6	11.775	•
SF25010	250	10	19.625	•
SF25012	250	12	23.550	•
SF25016	250	16	31.400	•
SF25020	250	20	39.250	•
SF25025	250	25	49.063	•
SF30006	300	6	14.130	•
SF30010	300	10	23.550	•
SF30012	300	12	28.260	•
SF30016	300	16	37.680	•
SF30020	300	20	47.100	•
SF30025	300	25	58.875	•

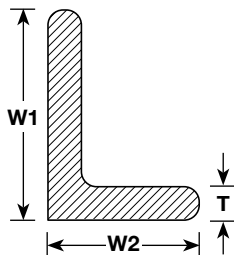


# Mild Steel Equal Angles

Mild Steel Equal Angles AS/NZS 3679.1-300 or Equivalent							
ASMUSS CODE	WIDTH W	WIDTH W	THICKNESS T	APPROX KG/M	LENGTH OPTIONS – METRES		
					6.0	9.0	12.0
SA02003	20	20	3	0.860	•		
SA02503	25	25	3	1.120	•		
SA02505	25	25	5	1.650	•		
SA03003	30	30	3	1.350	•		
SA03005	30	30	5	2.010	•		
SA04003	40	40	3	1.830	•		
SA04005	40	40	5	2.730	•		
SA04006	40	40	6	3.500	•		
SA05003	50	50	3	2.310	•		
SA05005	50	50	5	3.480	•	•	
SA05006	50	50	6	4.460	•	•	
SA05008	50	50	8	5.680	•	•	
SA06006	60	60	6	5.420	•	•	
SA06505	65	65	5	4.560	•	•	
SA06506	65	65	6	5.870	•	•	
SA06508	65	65	8	7.510	•	•	
SA06510	65	65	10	9.020		•	
SA07505	75	75	5	5.270	•	•	•
SA07506	75	75	6	6.810	•	•	•
SA07508	75	75	8	8.730	•	•	•
SA07510	75	75	10	10.500	•	•	•
SA08006	80	80	6	7.340	•	•	
SA08008	80	80	8	9.630	•		
SA09006	90	90	6	8.220	•	•	•
SA09008	90	90	8	10.600	•	•	•
SA09010	90	90	10	12.700	•	•	•
SA10006	100	100	6	9.160	•	•	•
SA10008	100	100	8	11.800	•	•	•
SA10010	100	100	10	14.200	•	•	•
SA10012	100	100	12	17.700	•	•	•
SA12508	125	125	8	14.900		•	
SA12510	125	125	10	18.000	•	•	•
SA15010	150	150	10	21.900	•	•	•
SA15012	150	150	12	27.300	•	•	•
SA15016	150	150	16	35.400			•
SA20016	200	200	16	48.700			•



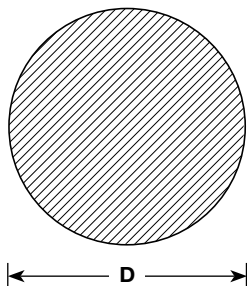
## Mild Steel Unequal Angles



**Mild Steel Unequal Angles AS/NZS 3679.1-300 or Equivalent**

ASMUSS CODE	WIDTH W1	WIDTH W2	THICKNESS T	APPROX KG/M	LENGTH OPTIONS – METRES		
					6.0	9.0	12.0
SUA06505005	65	50	5	4.020	•		
SUA07505005	75	50	5	4.400	•	•	
SUA07505006	75	50	6	5.660	•	•	
SUA10007506	100	75	6	7.980	•	•	•
SUA10007508	100	75	8	10.300	•	•	•
SUA10007510	100	75	10	12.400	•	•	•
SUA12507506	125	75	6	9.160	•	•	•
SUA12507508	125	75	8	11.800	•	•	•
SUA12507510	125	75	10	14.200	•	•	•
SUA15009010	150	90	10	17.300	•	•	•
SUA15009012	150	90	12	21.600		•	
SUA15010010	150	100	10	18.000	•	•	•
SUA15010012	150	100	12	22.500	•		•

## Mild Steel Rounds

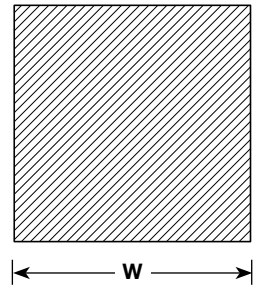


**Mild Steel Rounds AS/NZS 3679.1-300 or Equivalent**

ASMUSS CODE	DIAMETER D	APPROX KG/M	LENGTH OPTIONS – METRES	
			6.0	9.0
SR06	6	0.222	•	
SR08	8	0.395	•	
SR10	10	0.617	•	
SR12	12	0.888	•	
SR16	16	1.578	•	•
SR20	20	2.466	•	•
SR24	24	3.551	•	
SR28	28	4.833	•	
SR32	32	6.313	•	
SR40	40	9.864	•	
SR50	50	15.413	•	

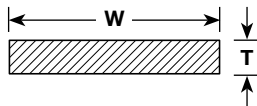
## Mild Steel Square

Mild Steel Square AS/NZS 3679.1-300 or Equivalent			
ASMUS CODE	WIDTH W	APPROX KG/M	LENGTH – METRES
			6.0
SQ06	6	0.283	•
SQ08	8	0.502	•
SQ10	10	0.785	•
SQ12	12	1.130	•
SQ16	16	2.010	•
SQ20	20	3.140	•
SQ25	25	4.906	•
SQ32	32	8.038	•
SQ38	38	11.335	•
SQ40	40	12.560	•
SQ50	50	19.625	•





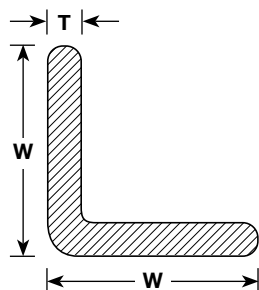
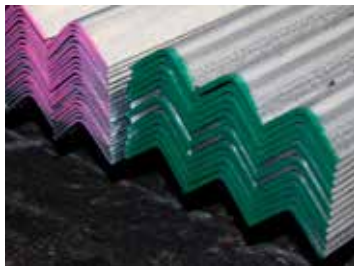
## Pregal Flat



Duragal Flat TS100 Grade 450MPa Thickness 4mm to 6mm / Grade 400MPa Thickness 8mm				
ASMUSS CODE	WIDTH W	THICKNESS T	APPROX KG/M	LENGTH – METRES
				6.0
DGF0504	50	4	1.49	•
DGF0505	50	5	1.84	•
DGF0655	65	5	2.40	•
DGF0755	75	5	2.77	•
DGF1005	100	5	3.69	•
DGF1006	100	6	4.71	•
DGF1305	130	5	4.80	•
DGF1506	150	6	7.07	•
DGF2008	200	8	12.60	•

Pregal finish applied at a minimum of 100g/m2 consistent to AS/NZS 4791 ILG100

## Pregal Angle



Duragal Angle TS100 Grade 350MPa Thickness 2.5mm / Grade 450MPa Thickness >2.5mm to 6mm / Grade 400MPa Thickness 8mm						
ASMUSS CODE	WIDTH W	THICKNESS T	APPROX KG/M	LENGTH OPTIONS – METRES		
				6.0	9.0	12.0
DGA03025	30	2.5	1.06	•		
DGA04025	40	2.5	1.43	•		
DGA04040	40	4	2.20	•		
DGA05025	50	2.5	1.81	•		
DGA05040	50	4	2.79	•		
DGA05050	50	5	3.42	•		
DGA05060	50	6	4.21		•	
DGA06540	65	4	3.69		•	
DGA06560	65	6	5.62		•	
DGA07550	75	5	5.26		•	
DGA07560	75	6	6.56		•	
DGA10060	100	10	8.92			•

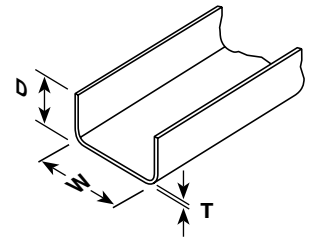
Pregal finish applied at a minimum of 100g/m2 consistent to AS/NZS 4791 ILG100

# Pregal Channel

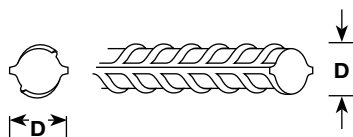
## Duragal Channel TS100 Grade 450MPa thickness 4mm to 6mm / Grade 400MPa thickness 8mm

ASMUS CODE	WIDTH W	HEIGHT D	THICKNESS T	APPROX KG/M	LENGTH OPTIONS – METRES	
					9.0	12.0
DGC075404	75	40	4	4.25	•	
DGC100504	100	50	4	5.59	•	
DGC125654	125	65	4	7.23	•	
DGC150755	150	75	5	10.50		•
DGC200755	200	75	5	12.40		•
DGC230756	230	75	6	16.90		•
DGC250906	250	90	6	19.20		•
DGC300906	300	90	6	21.60		•

Pregal finish applied at a minimum of 100g/m2 consistent to AS/NZS 4791 ILG100

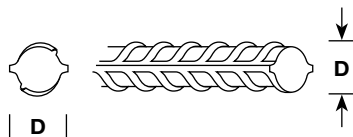


## Reinforcing Bar



Reinforcing Bar AS/NZS 4671 Grade 300 or Equivalent			
ASMUSS CODE	DIAMETER D	APPROX KG/M	LENGTH – METRES
			6.0
SRD10	10	0.617	•
SRD12	12	0.888	•
SRD16	16	1.578	•
SRD20	20	2.466	•

## Reinforcing Bar

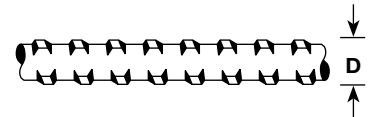


Reinforcing Bar AS/NZS 4671 Grade 500 or Equivalent			
ASMUSS CODE	DIAMETER D	APPROX KG/M	LENGTH – METRES
			6.0
SRHD10	10	0.617	•
SRHD12	12	0.888	•
SRHD16	16	1.578	•
SRHD20	20	2.466	•



## Reid Bar

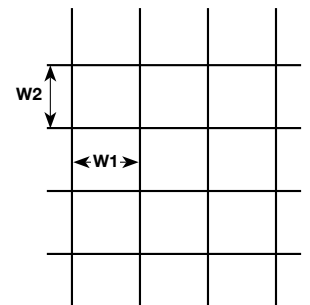
Reid Bar AS/NZS 4671 500E REID					
ASMUSS CODE	DIAMETER D	APPROX KG/M	LENGTH OPTIONS – METRES		
			9.0	12.0	15.0
SRRB12	12	0.888	•		
SRRB16	16	1.578	•	•	•
SRRB20	20	2.466	•	•	•
SRRB25	25	3.853	•	•	•
SRRB32	32	6.313		•	•



## Reinforcing Mesh

Reinforcing Mesh NZS 3422:1975 or Equivalent						
ASMUSS CODE	WIDTH W1	WIDTH W2	WIRE GAUGE T	APPROX KG/M2	SHEET SIZE	
					1200 x 2400	4650 x 1970
SRM118	25	25	4.0	8.68	•	
SRM225	50	50	5.3	6.93	•	
SRM228	50	50	4.0	3.94	•	
SRM335	75	75	5.3	3.81	•	•
SRM338	75	75	4.0	2.62	•	•
SRM665	150	150	5.3	2.40		•
SRM668	150	150	4.0	1.37		•

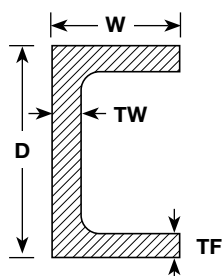
Note: 118, 225 and 228 Reinforcing mesh also stocked in Galvanized finish



## Mild Steel Channel

**Mild Steel Channel AS3679.1 GR300**

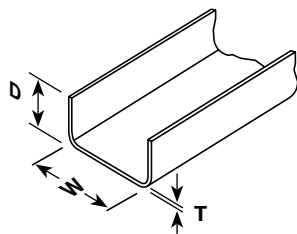
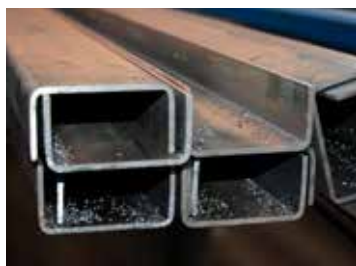
ASMUSS CODE	APPROX KG/M	DEPTH D	WIDTH W	FLANGE Tf	WEB Tw	SURFACE AREA M2/M	LENGTH OPTIONS – METRES							
							6.0	9.0	10.5	12.0	13.5	15.0	16.5	18.0
SC075040	5.92	75	40	6.10	3.80	0.30	•	•		•				
SC100050	8.33	100	50	6.70	4.20	0.39	•	•		•				
SC125065	11.90	125	65	7.50	4.70	0.50	•	•		•				
SC150075	17.70	150	75	9.50	6.00	0.58	•	•	•	•	•	•	•	•
SC180075	20.90	180	75	11.00	6.00	0.64	•	•	•	•	•	•		
SC200075	22.90	200	75	12.00	6.00	0.68	•	•	•	•	•	•	•	•
SC230075	25.10	230	75	12.00	6.50	0.74	•	•	•	•	•	•		•
SC250090	35.50	250	90	15.00	8.00	0.83	•	•	•	•	•	•	•	•
SC300090	40.10	300	90	16.00	8.00	0.92	•	•	•	•	•	•	•	•
SC380100	55.20	380	100	17.50	10.00	1.13	•	•		•		•		•



## Cold Formed Channel – Plain

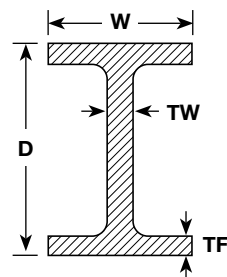
**Cold Formed Channel AS 1594-HA-250**

ASMUSS CODE	DEPTH D	WIDTH W	THICKNESS T	APPROX KG/M	LENGTH – METRES
					6.0
SC051025CF	25	50	3.00	2.31	•
SC076038CF	40	75	3.00	3.77	•
SC102051CF	51	102	3.00	5.28	•



# Universal Beam

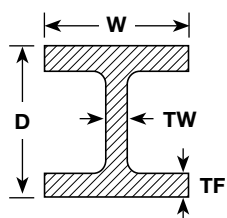
Universal Beam AS3679.1 GR300 / GR300SO														
ASMUSS CODE	APPROX KG/M	DEPTH D	WIDTH W	FLANGE Tf	WEB Tw	SURFACE AREA M2/M	LENGTH OPTIONS – METRES							
							6.0	9.0	10.5	12.0	13.5	15.0	16.5	18.0
SUB150014	14.00	150	75	7.00	5.00	0.59	•	•		•				
SUB150018	18.00	155	75	9.50	6.00	0.59	•	•		•		•		
SUB180018	18.10	175	90	8.00	5.00	0.70	•	•		•		•		
SUB180022	22.20	179	90	10.00	6.00	0.70	•	•		•		•		
SUB200018	18.20	198	99	7.00	4.50	0.91	•	•	•	•	•	•	•	•
SUB200022	22.30	202	133	7.00	5.00	0.91	•	•	•	•	•	•		•
SUB200025	25.40	203	133	7.80	5.80	0.91	•	•	•	•	•	•	•	•
SUB200030	29.80	207	134	9.60	6.30	0.91	•	•	•	•	•	•	•	•
SUB250026	25.70	248	124	8.00	5.00	1.06	•	•	•	•	•	•	•	•
SUB250031	31.40	252	146	8.60	6.10	1.06	•	•	•	•	•	•	•	•
SUB250037	37.30	256	146	10.90	6.40	1.07	•	•	•	•	•	•	•	•
SUB310032	32.00	298	149	8.00	5.50	1.24	•	•	•	•	•	•		•
SUB310040	40.40	304	165	10.20	6.10	1.24	•	•	•	•	•	•	•	•
SUB310046	46.20	307	166	11.80	6.70	1.25	•	•	•	•	•	•	•	•
SUB360045	44.70	352	171	9.70	6.90	1.34	•	•	•	•	•	•	•	•
SUB360051	50.70	356	171	11.50	7.30	1.35	•	•	•	•	•	•	•	•
SUB360057	56.70	359	172	13.00	8.00	1.36	•	•		•	•	•	•	•
SUB410054	53.70	403	178	10.90	7.60	1.47	•	•	•	•	•	•	•	•
SUB410060	59.70	406	178	12.80	7.80	1.48	•	•	•	•	•	•	•	•
SUB460067	67.10	454	190	12.70	8.50	1.62	•	•	•	•	•	•	•	•
SUB460074	74.60	457	190	14.50	9.10	1.63	•	•	•	•	•	•	•	•
SUB460082	82.10	460	191	16.00	9.90	1.63	•	•	•	•	•	•	•	•
SUB530082	82.00	528	209	13.20	9.60	1.83	•	•	•	•	•	•	•	•
SUB530092	92.40	533	209	15.60	10.20	1.86	•	•	•	•	•	•	•	•
SUB610101	101.00	602	228	14.80	10.60	2.05	•	•	•	•	•	•	•	•
SUB610113	113.00	607	228	17.30	11.20	2.06		•	•	•		•		•
SUB610125	125.00	612	229	19.60	11.90	2.08		•		•		•		•



# Universal Column

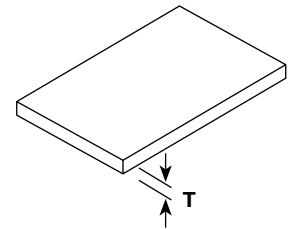
**Universal Column AS3679.1 GR300 / GR300SO**

ASMUSS CODE	APPROX KG/M	DEPTH D	WIDTH W	FLANGE TF	WEB TW	SURFACE AREA M2/M	LENGTH OPTIONS – METRES							
							6.0	9.0	10.5	12.0	13.5	15.0	16.5	18.0
SUC100015	14.80	97	99	7.00	5.00	0.56	•	•		•		•		
SUC150023	23.40	152	152	6.80	6.10	0.89	•	•		•		•		
SUC150030	30.00	158	153	9.40	6.60	0.90	•	•		•		•		•
SUC150037	37.20	162	154	11.50	8.10	0.91	•	•		•		•		•
SUC200046	46.20	203	203	11.00	7.30	1.19	•	•		•	•	•	•	•
SUC200052	52.20	206	204	12.50	8.00	1.19	•	•		•		•		•
SUC200060	59.50	210	205	14.20	9.30	1.20	•	•		•		•		•
SUC250073	72.90	254	254	14.20	8.60	1.49	•	•		•	•	•	•	•
SUC250089	89.50	260	256	17.30	10.50	1.50	•	•		•		•		•
SUC310097	96.80	308	305	15.40	9.90	1.79	•	•		•		•		•
SUC310118	118.00	315	307	18.70	11.90	1.81	•	•		•		•		•
SUC310137	137.00	321	309	21.70	13.80	1.82	•	•		•		•		•
SUC310158	158.00	327	311	25.00	15.70	1.84	•	•		•		•		•



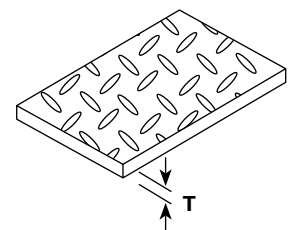
## Mild Steel Plate

Mild Steel Plate AS1594 – HA250 AS/NZS 3678-250 or Equivalent							
ASMUS CODE	THICKNESS T	APPROX KG/M2	SHEET SIZE				
			2400 x 1200	3000 x 1520	3600 x 1520	3600 x 1800	6000 x 2400
SPL003	3	23.60	•	•	•	•	
SPL004	4	31.40	•		•	•	
SPL005	5	39.30	•	•	•	•	
SPL006	6	47.10	•	•	•		•
SPL008	8	62.80	•		•		•
SPL010	10	78.50	•	•	•		•
SPL012	12	94.20	•		•		•
SPL016	16	125.60	•		•		•
SPL020	20	157.00	•		•		•
SPL025	25	196.30	•		•		•
SPL032	32	251.20	•		•		•
SPL040	40	314.00	•				•
SPL050	50	392.50	•				•



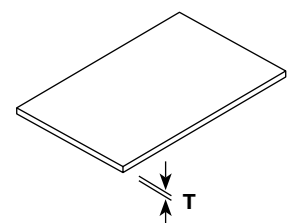
## Mild Steel Chequer Plate

Mild Steel Chequer Plate AS1594 – HA1 or Equivalent				
ASMUS CODE	THICKNESS T	APPROX KG/M2	SHEET SIZE	
			2400 x 1220	3600 x 1520
SPLF03	3	25.65	•	•
SPLF05	5	41.35	•	•
SPLF06	6	49.20	•	•
SPLF08	8	64.90	•	
SPLF10	10	80.60	•	

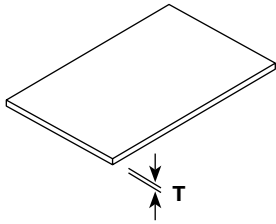
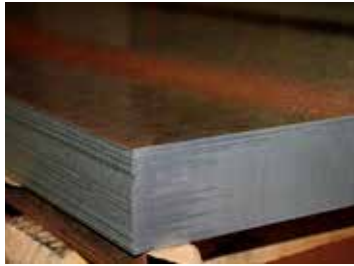


## Weather Resistant Plate

Weather Resistant Plate AS1594 – HW350 or Equivalent			
ASMUS CODE	THICKNESS T	APPROX KG/M2	SHEET SIZE
			2500 x 1250
WRP3	3	23.60	•
WRP4	4	31.40	•
WRP5	5	39.30	•
WRP6	6	47.10	•

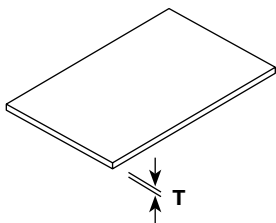


## Cold Rolled Sheet



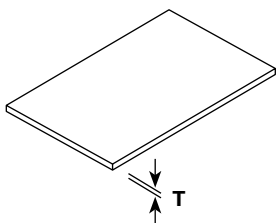
Cold Rolled Sheet JIS G3141 SPCC SD or Equivalent			
ASMUSS CODE	THICKNESS T	APPROX KG/M2	SHEET SIZE
			2438 x 1219
SHCR10	1.0	7.85	•
SHCR12	1.2	9.42	•
SHCR16	1.6	12.56	•
SHCR20	2.0	15.70	•
SHCR25	2.5	19.63	•
SHCR30	3.0	23.55	•

## Galvanized Sheet



Galvanized Sheet JIS G3302 SGCC S250 Z275 or Equivalent			
ASMUSS CODE	THICKNESS T	APPROX KG/M2	SHEET SIZE
			2438 x 1219
SHG055	0.55	4.71	•
SHG075	0.75	6.28	•
SHG095	0.95	7.85	•
SHG115	1.15	9.42	•
SHG155	1.55	12.56	•
SHG200	2.00	15.66	•
SHG250	2.50	19.85	•
SHG300	3.00	23.89	•

## Electrogalvanised Sheet

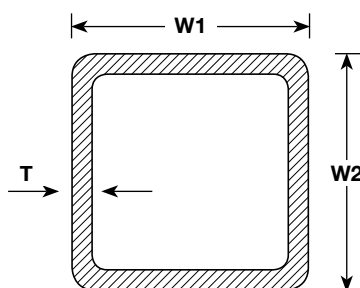


Electrogalvanised Sheet JIS G3313 SECC-P or Equivalent			
ASMUSS CODE	THICKNESS T	APPROX KG/M2	SHEET SIZE
			2438 x 1219
SHEG08	0.8	6.28	•
SHEG10	1.0	7.85	•
SHEG12	1.2	9.42	•
SHEG16	1.6	12.56	•
SHEG19	1.9	14.92	•
SHEG25	2.5	19.63	•
SHEG30	3.0	23.55	•



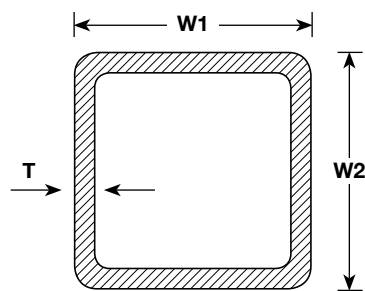
## Square Hollow Section

Square Hollow Section AS/NZS 1163 C350/C450 LO									
ASMUSS CODE	WIDTH W1	WIDTH W2	THICKNESS T	APPROX KG/M	LENGTH OPTIONS – METRES		FINISH		
					8.0	12.0	NOPC	PRIMED	PREGALV
SHS02016	20	20	1.6	0.87	•		•	•	•
SHS02516	25	25	1.6	1.12	•		•	•	•
SHS02520	25	25	2.0	1.36	•		•	•	•
SHS02525	25	25	2.5	1.64	•		•	•	•
SHS02530	25	25	3.0	1.89	•		•	•	•
SHS03016	30	30	1.6	1.38	•				•
SHS03020	30	30	2.0	1.68	•		•	•	•
SHS03516	35	35	1.6	1.63	•				•
SHS03520	35	35	2.0	1.99	•		•	•	•
SHS03525	35	35	2.5	2.42	•		•	•	•
SHS03530	35	35	3.0	2.83	•		•	•	•
SHS03540	35	35	4.0	3.46	•		•		
SHS04016	40	40	1.6	1.88	•		•		•
SHS04020	40	40	2.0	2.31	•		•		•
SHS04025	40	40	2.5	2.82	•		•	•	•
SHS04030	40	40	3.0	3.30	•		•	•	•
SHS04040	40	40	4.0	4.09	•		•	•	•
SHS05016	50	50	1.6	2.38	•		•		•
SHS05020	50	50	2.0	2.93	•		•	•	•
SHS05025	50	50	2.5	3.60	•		•	•	•
SHS05030	50	50	3.0	4.25	•		•	•	•
SHS05040	50	50	4.0	5.35	•		•	•	•
SHS05050	50	50	5.0	6.39	•		•	•	•
SHS05060	50	50	6.0	7.32	•		•		
SHS06525	65	65	2.5	4.78	•				•
SHS06530	65	65	3.0	5.66	•		•	•	•
SHS06540	65	65	4.0	7.23	•		•	•	•
SHS06550	65	65	5.0	8.75	•		•	•	•
SHS06560	65	65	6.0	10.10	•		•	•	



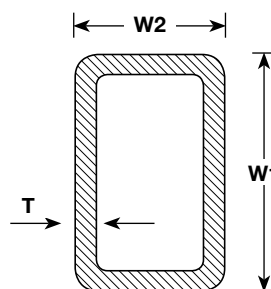
## Square Hollow Section

Square Hollow Section AS/NZS 1163 C350/C450 LO									
ASMUSS CODE	WIDTH W1	WIDTH W2	THICKNESS T	APPROX KG/M	LENGTH OPTIONS – METRES		FINISH		
					8.0	12.0	NOPC	PRIMED	PREGALV
SHS07525	75	75	2.5	5.56	•				•
SHS07530	75	75	3.0	6.60	•		•	•	•
SHS07540	75	75	4.0	8.49	•	•	•	•	•
SHS07550	75	75	5.0	10.30	•	•	•	•	•
SHS07560	75	75	6.0	12.00	•	•	•	•	
SHS08935	89	89	3.5	9.07	•	•	•	•	•
SHS08950	89	89	5.0	12.50	•	•	•	•	•
SHS08960	89	89	6.0	14.70	•	•	•	•	
SHS10030	100	100	3.0	8.96	•	•	•	•	•
SHS10040	100	100	4.0	11.60	•	•	•	•	•
SHS10050	100	100	5.0	14.20	•	•	•	•	•
SHS10060	100	100	6.0	16.70	•	•	•	•	
SHS10090	100	100	9.0	23.50	•	•	•	•	
SHS12540	125	125	4.0	14.80	•	•	•	•	
SHS12550	125	125	5.0	18.20	•	•	•	•	
SHS12560	125	125	6.0	21.40	•	•	•	•	
SHS12590	125	125	9.0	30.60	•	•	•	•	
SHS15050	150	150	5.0	22.10	•	•	•	•	
SHS15060	150	150	6.0	26.20	•	•	•	•	
SHS15090	150	150	9.0	37.70	•	•	•	•	
SHS20050	200	200	5.0	29.90	•	•	•	•	
SHS20060	200	200	6.0	35.60	•	•	•	•	
SHS20090	200	200	9.0	51.80	•	•	•	•	
SHS25060	250	250	6.0	45.00	•	•	•	•	
SHS25090	250	250	9.0	65.90	•	•	•	•	



## Rectangular Hollow Section

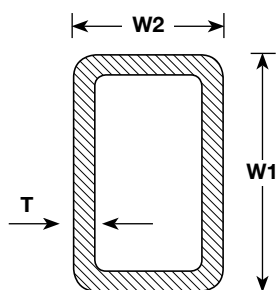
Rectangular Hollow Section AS/NZS 1163 C250, C350/C450									
ASMUSS CODE	WIDTH W1	WIDTH W2	THICKNESS T	APPROX KG/M	LENGTH OPTIONS – METRES		FINISH		
					8.0	12.0	NOPC	PRIMED	PREGALV
RHS05002516	50	25	1.6	1.75	•		•	•	•
RHS05002520	50	25	2.0	2.15	•		•		•
RHS05002525	50	25	2.5	2.62	•		•	•	•
RHS05002530	50	25	3.0	3.07	•		•	•	•
RHS06503520	65	35	2.0	2.93	•		•	•	•
RHS06503525	65	35	2.5	3.60	•		•	•	•
RHS06503530	65	35	3.0	4.25	•		•	•	•
RHS06503540	65	35	4.0	5.35	•		•	•	•
RHS07502520	75	25	2.0	2.93	•		•		•
RHS07502525	75	25	2.5	3.60	•		•	•	•
RHS07504025	75	40	2.5	4.18	•		•		
RHS07504030	75	40	3.0	4.95	•		•		
RHS07504040	75	40	4.0	6.29	•		•		
RHS07505020	75	50	2.0	3.72	•		•	•	•
RHS07505025	75	50	2.5	4.58	•		•		•
RHS07505030	75	50	3.0	5.42	•		•	•	•
RHS07505040	75	50	4.0	6.92	•		•	•	•
RHS07505050	75	50	5.0	8.35	•		•	•	•
RHS07505060	75	50	6.0	9.67	•		•	•	
RHS07603830	76	38	3.0	4.84	•		•	•	
RHS07603840	76	38	4.0	6.23	•		•	•	
RHS10005020	100	50	2.0	4.50	•				•
RHS10005025	100	50	2.5	5.56	•		•		•
RHS10005030	100	50	3.0	6.60	•		•	•	•
RHS10005040	100	50	4.0	8.49	•		•	•	•
RHS10005050	100	50	5.0	10.30	•		•	•	•
RHS10005060	100	50	6.0	12.00	•	•	•	•	
RHS10207635	102	76	3.5	9.09	•		•	•	
RHS10207650	102	76	5.0	12.50	•		•	•	
RHS10207660	102	76	6.0	14.67	•		•	•	



## Rectangular Hollow Section

Rectangular Hollow Section AS/NZS 1163 C250, C350/C450

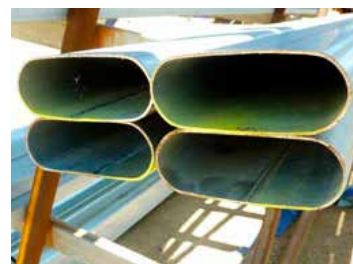
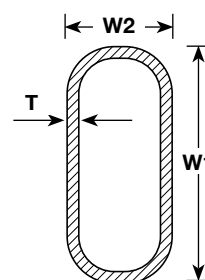
ASMUSS CODE	WIDTH W1	WIDTH W2	THICKNESS T	APPROX KG/M	LENGTH OPTIONS – METRES		FINISH		
					8.0	12.0	NOPC	PRIMED	PREGALV
RHS12507530	125	75	3.0	8.96	•	•	•	•	•
RHS12507540	125	75	4.0	11.60	•	•	•	•	•
RHS12507550	125	75	5.0	14.20	•	•	•	•	•
RHS12507560	125	75	6.0	16.70	•	•	•	•	
RHS12705135	127	51	3.5	9.09	•		•	•	
RHS12705150	127	51	5.0	12.50	•		•	•	
RHS15005030	150	50	3.0	8.96	•			•	•
RHS15005040	150	50	4.0	11.60	•	•	•	•	•
RHS15005050	150	50	5.0	14.20	•	•	•	•	•
RHS15010040	150	100	4.0	14.80	•	•	•	•	
RHS15010050	150	100	5.0	18.20	•	•	•	•	
RHS15010060	150	100	6.0	21.40	•	•	•	•	
RHS15010090	150	100	9.0	30.60	•	•	•	•	
RHS15207650	152	76	5.0	16.44	•	•	•	•	
RHS15207660	152	76	6.0	19.38	•	•	•	•	
RHS15207690	152	76	9.0	28.04	•		•		
RHS20010040	200	100	4.0	17.90	•	•	•	•	
RHS20010050	200	100	5.0	22.10	•	•	•	•	
RHS20010060	200	100	6.0	26.20	•	•	•	•	
RHS20010090	200	100	9.0	37.70	•	•	•	•	
RHS20015060	200	150	6.0	31.11	•	•	•	•	
RHS20015090	200	150	9.0	45.30	•	•	•	•	
RHS25015050	250	150	5.0	29.90	•	•	•	•	
RHS25015060	250	150	6.0	35.60	•	•	•	•	
RHS25015090	250	150	9.0	51.80	•	•	•	•	



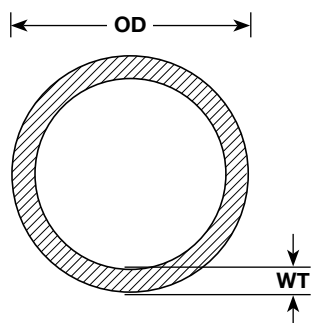
## Cattle Rail Hollow Section

**Cattle Rail Hollow Section AS/NZS 1163 C250, C350/C450**

ASMUSS CODE	WIDTH W1	WIDTH W2	THICKNESS T	APPROX KG/M	LENGTH OPTIONS – METRES	FINISH	
					6.1	NOPC	PREGALV
RHS05903016	59	30	1.6	2.60	•		•
RHS09704220	97	42	2.0	3.65	•	•	•
RHS11504220	115	42	2.0	4.29	•	•	•



# Seamless Line Pipe



**Seamless Line Pipe API 5L GR.B / ASTM A53 GR.B / ASTM A106 GR.B**

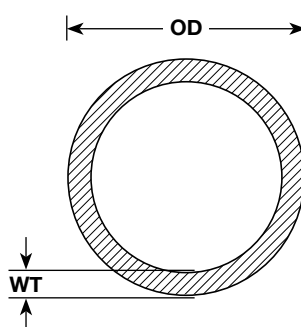
ASMUSS CODE	PIPE SCHEDULE	OD	WT	APPROX KG/M	LENGTH – METRES
					6.0
LP040010	Sch 40 / STD	17.1	2.31	0.85	•
LP040015	Sch 40 / STD	21.3	2.77	1.27	•
LP080015	Sch 80 / XS	21.3	3.73	1.62	•
LP160015	Sch 160	21.3	4.77	1.94	•
LP040020	Sch 40 / STD	26.7	2.78	1.69	•
LP080020	Sch 80 / XS	26.7	3.91	2.20	•
LP160020	Sch 160	26.7	5.56	2.89	•
LP040025	Sch 40 / STD	33.4	3.38	2.50	•
LP080025	Sch 80 / XS	33.4	4.55	3.24	•
LP160025	Sch 160	33.4	6.35	4.23	•
LP040032	Sch 40 / STD	42.2	3.56	3.39	•
LP080032	Sch 80 / XS	42.2	4.85	4.47	•
LP160032	Sch 160	42.2	6.35	5.60	•
LP040040	Sch 40 / STD	48.3	3.68	4.06	•
LP080040	Sch 80 / XS	48.3	5.08	5.41	•
LP160040	Sch 160	48.3	7.13	7.23	•
LP040050	Sch 40 / STD	60.3	3.91	5.44	•
LP080050	Sch 80 / XS	60.3	5.54	7.48	•
LP160050	Sch 160	60.3	7.73	10.02	•
LP040065	Sch 40 / STD	73.0	5.16	8.63	•
LP080065	Sch 80 / XS	73.0	7.01	11.41	•
LP160065	Sch 160	73.0	9.52	14.90	•
LP040080	Sch 40 / STD	88.9	5.49	11.29	•
LP080080	Sch 80 / XS	88.9	7.62	15.27	•
LP160080	Sch 160	88.9	11.12	21.32	•
LP040090	Sch 40 / STD	101.6	5.74	13.57	•
LP040100	Sch 40 / STD	114.3	6.02	16.07	•
LP080100	Sch 80 / XS	114.3	8.56	22.32	•
LP160100	Sch 160	114.3	13.48	33.51	•
LP040125	Sch 40 / STD	141.3	6.55	21.77	•
LP080125	Sch 80 / XS	141.3	9.52	30.94	•
LP040150	Sch 40 / STD	168.3	7.11	28.26	•
LP080150	Sch 80 / XS	168.3	10.97	42.56	•
LP040200	Sch 40 / STD	219.1	8.11	42.55	•
LP080200	Sch 80 / XS	219.1	12.70	64.40	•
LP040250	Sch 40 / STD	273.1	9.27	60.29	•
LP040300	Sch 40	323.9	10.31	73.78	•



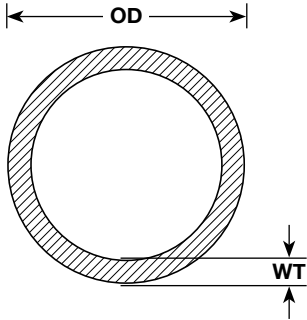
# ERW Line Pipe

ERW Line Pipe ASTM API 5L GR.B						
ASMUSS CODE	PIPE SCHEDULE	SIZE OD	WT	APPROX KG/M	LENGTH – METRES	
					6.0	12.0
LPW150478	4.78	168.3	4.78	19.28	•	•
LPW15020	Sch 20	168.3	6.35	25.36	•	•
LPW15040	Sch 40	168.3	7.11	28.26	•	•
LPW200478	4.78	219.1	4.78	25.26	•	•
LPW20020	Sch 20	219.1	6.35	33.31	•	•
LPW20040	Sch 40	219.1	8.17	42.49	•	•
LPW200XS	Sch XS	219.1	12.7	64.64	•	•
LPW250478	4.78	273.1	4.78	31.62	•	•
LPW25020	Sch 20	273.1	6.35	41.76	•	•
LPW25040	Sch 40	273.1	9.27	60.30	•	•
LPW30020	Sch 20	323.9	6.35	49.72	•	•
LPW300STD	Sch STD	323.9	9.52	73.79	•	•
LPW30040	Sch 40	323.9	10.31	79.72	•	•
LPW300XS	Sch XS	323.9	12.70	97.45	•	•
LPW350STD	Sch STD	355.6	9.52	81.25	•	•
LPW350XS	Sch XS	355.6	12.70	107.39	•	•
LPW400STD	Sch STD	406.4	9.52	93.17	•	•
LPW40040	Sch 40 / XS	406.4	12.70	123.30	•	•
LPW450STD	Sch STD	457.2	9.52	105.09	•	•
LPW450XS	Sch XS	457.2	12.70	139.20	•	•
LPW500STD	Sch STD	508.0	9.52	117.02	•	•
LPW500XS	Sch XS	508.0	12.70	155.12	•	•
LPW600XS	Sch XS	609.6	12.70	186.94	•	•

Note: 200nb x 4.78wt, 250nb x 4.78wt and 250nb x sch20 also stocked in 6m lengths in Galvanized finish

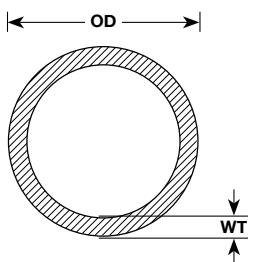


## Black Pipe – No Coating – Plain End



Black Pipe AS1074 & AS/NZS 1163 Ex-Light & Light C250/C350 AS1074 Medium & Heavy C250					
ASMUSS CODE	NB	OD	WT	APPROX KG/M	LENGTH – METRES
					6.5
PBMPE015	15NB	21.3	2.6	1.21	•
PBMPE020	20NB	26.9	2.6	1.56	•
PBHPE020	20NB	26.9	3.2	1.87	•
PBLPE025	25NB	33.7	2.6	1.99	•
PBMPE025	25NB	33.7	3.2	2.41	•
PBHPE025	25NB	33.7	4.0	2.94	•
PBLPE032	32NB	42.4	2.6	2.55	•
PBMPE032	32NB	42.4	3.2	3.10	•
PBHPE032	32NB	42.4	4.0	3.80	•
PBLPE040	40NB	48.3	2.9	3.25	•
PBMPE040	40NB	48.3	3.2	3.57	•
PBHPE040	40NB	48.3	4.0	4.38	•
PBLPE050	50NB	60.3	2.9	4.11	•
PBMPE050	50NB	60.3	3.6	5.03	•
PBHPE050	50NB	60.3	4.5	6.19	•
PBMPE065	65NB	76.1	3.6	6.43	•
PBHPE065	65NB	76.1	4.5	7.93	•
PBMPE080	80NB	88.9	4.0	8.37	•
PBHPE080	80NB	88.9	5.0	10.30	•
PBMPE090	90NB	101.6	4.0	9.63	•
PBHPE090	90NB	101.6	5.0	11.90	•
PBMPE100	100NB	114.3	4.5	12.20	•
PBHPE100	100NB	114.3	5.4	14.50	•
PBMPE125	125NB	139.7	5.0	16.60	•
PBHPE125	125NB	139.7	5.4	17.90	•
PBMPE150	150NB	165.1	5.0	19.70	•
PBHPE150	150NB	165.1	5.4	21.30	•

## Galvanised Schedule 10 Plain and Grooved End

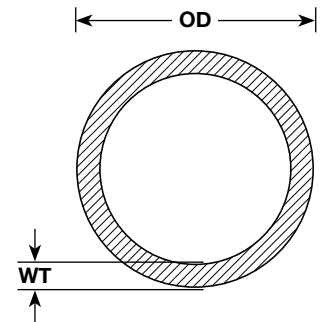


ASTM A135A						
CODE		NB	OD	WT	APPROX KG/M	LENGTH – METRES
PLAIN END	GROOVED END					6.5
FP10050G	FP10050GG	50NB	60.3	2.77	4.01	•
FP10065G	FP10065GG	65NB	76.1	3.05	5.36	•
FP10080G	FP10080GG	80NB	88.9	3.05	6.59	•
FP10100G	FP10100GG	100NB	114.3	3.05	8.52	•
FP10150G	FP10150GG	150NB	165.1	3.40	14.13	•

## Primed Pipe – Painted Red – Plain End

**Primed Pipe AS1074 & AS/NZS 1163 Light C250/C350  
AS1074 Medium & Heavy C250**

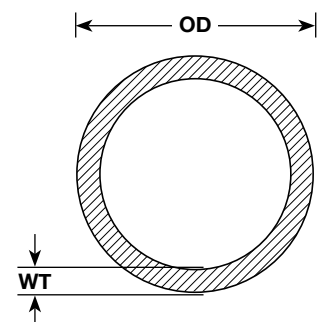
ASMUS CODE	NB	OD	WT	APPROX KG/M	LENGTH – METRES
					6.5
PPMPE015	15NB	21.3	2.6	1.21	•
PPMPE020	20NB	26.9	2.6	1.56	•
PPMPE025	25NB	33.7	3.2	2.41	•
PPMPE032	32NB	42.4	3.2	3.10	•
PPMPE040	40NB	48.3	3.2	3.57	•
PPLPE050	50NB	60.3	2.9	4.11	•
PPMPE050	50NB	60.3	3.6	5.03	•
PPLPE065	65NB	76.1	3.2	5.75	•
PPMPE065	65NB	76.1	3.6	6.43	•
PPLPE080	80NB	88.9	3.2	6.76	•
PPMPE080	80NB	88.9	4.0	8.37	•
PPLPE100	100NB	114.3	3.6	9.83	•
PPMPE100	100NB	114.3	4.5	12.20	•
PPMPE125	125NB	139.7	5.0	16.60	•
PPLPE150	150NB	165.1	3.5	13.90	•
PPMPE150	150NB	165.1	5.0	19.70	•



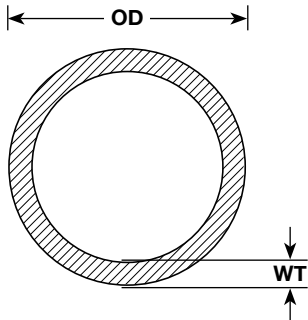
## Primed Pipe – Painted Red – Screwed and Socketed

**Primed Pipe AS1074 Medium C250**

ASMUS CODE	NB	OD	WT	APPROX KG/M	LENGTH – METRES
					6.5
PPMSS015	15NB	21.3	2.6	1.21	•
PPMSS020	20NB	26.9	2.6	1.56	•
PPMSS025	25NB	33.7	3.2	2.41	•
PPMSS032	32NB	42.4	3.2	3.10	•
PPMSS040	40NB	48.3	3.2	3.57	•
PPMSS050	50NB	60.3	3.6	5.03	•
PPMSS065	65NB	76.1	3.6	6.43	•
PPMSS080	80NB	88.9	4.0	8.37	•
PPMSS100	100NB	114.3	4.5	12.20	•
PPMSS125	125NB	139.7	5.0	16.60	•
PPMSS150	150NB	165.1	5.0	19.70	•



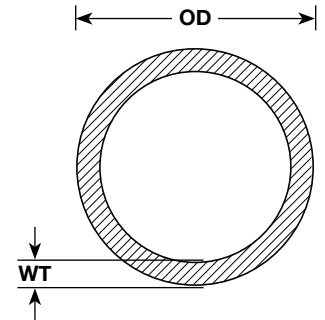
## Galvanized Pipe – Plain End



Galvanized AS1074 & AS/NZS 1163 Ex-Light & Light C250/C350 AS1074 Medium & Heavy C250					
ASMUSS CODE	NB	OD	WT	APPROX KG/M	LENGTH – METRES
					6.5
PGLPE015	15NB	21.3	2.0	1.00	•
PGMPE015	15NB	21.3	2.6	1.24	•
PGXLPE020	20NB	26.9	2.0	1.28	•
PGLPE020	20NB	26.9	2.3	1.44	•
PGMPE020	20NB	26.9	2.6	1.60	•
PGHPE020	20NB	26.9	3.2	1.92	•
PGXLPE025	25NB	33.7	2.0	1.62	•
PGLPE025	25NB	33.7	2.6	2.05	•
PGMPE025	25NB	33.7	3.2	2.47	•
PGHPE025	25NB	33.7	4.0	3.00	•
PGXLPE032	32NB	42.2	2.0	2.07	•
PGLPE032	32NB	42.2	2.6	2.63	•
PGMPE032	32NB	42.4	3.2	3.18	•
PGHPE032	32NB	42.4	4.0	3.87	•
PGXLPE040	40NB	48.3	2.3	3.33	•
PGLPE040	40NB	48.3	2.9	3.33	•
PGMPE040	40NB	48.3	3.2	3.65	•
PGHPE040	40NB	48.3	4.0	4.46	•
PGXLPE050	50NB	60.3	2.3	3.40	•
PGLPE050	50NB	60.3	2.9	4.21	•
PGMPE050	50NB	60.3	3.6	5.14	•
PGHPE050	50NB	60.3	4.5	6.30	•
PGXLPE065	65NB	76.1	2.3	4.33	•
PGLPE065	65NB	76.1	3.2	5.89	•
PGMPE065	65NB	76.1	3.6	6.56	•
PGHPE065	65NB	76.1	4.5	8.07	•
PGXLPE080	80NB	88.9	2.6	5.70	•
PGLPE080	80NB	88.9	3.2	6.92	•
PGMPE080	80NB	88.9	4.0	8.53	•
PGHPE080	80NB	88.9	5.0	10.50	•
PGLPE090	90NB	101.6	3.2	7.95	•
PGMPE090	90NB	101.6	4.0	9.81	•
PGHPE090	90NB	101.6	5.0	12.10	•
PGLPE100	100NB	114.3	3.6	10.00	•
PGMPE100	100NB	114.3	4.5	12.40	•
PGHPE100	100NB	114.3	5.4	14.70	•
PGLPE125	125NB	137.9	3.5	12.00	•
PGMPE125	125NB	139.7	5.0	16.90	•
PGHPE125	125NB	139.7	5.4	18.10	•
PGLPE150	150NB	165.1	3.5	14.30	•
PGMPE150	150NB	165.1	5.0	20.00	•

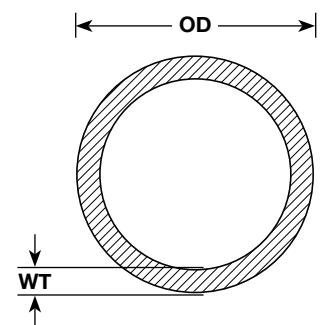
## Galvanized Pipe – Swaged One End

Galvanized Pipe AS/NZS 1163 Light C250/C350					
ASMUSS CODE	NB	OD	WT	APPROX KG/M	LENGTH – METRES
					6.5
PGLSW025	25NB	33.7	2.6	2.05	•
PGLSW032	32NB	42.2	2.6	2.63	•
PGLSW040	40NB	48.3	2.9	3.33	•
PGLSW050	50NB	60.3	2.9	4.21	•



## Galvanized Pipe – Screwed and Socketed

Galvanized Pipe AS1074 Medium C250					
ASMUSS CODE	NB	OD	WT	APPROX KG/M	LENGTH – METRES
					6.5
PGMSS015	15NB	21.3	2.6	1.24	•
PGMSS020	20NB	26.9	2.6	1.60	•
PGMSS025	25NB	33.7	3.2	2.47	•
PGMSS032	32NB	42.4	3.2	3.18	•
PGMSS040	40NB	48.3	3.2	3.65	•
PGMSS050	50NB	60.3	3.6	5.14	•
PGMSS065	65NB	76.1	3.6	6.56	•
PGMSS080	80NB	88.9	4.0	8.53	•
PGMSS100	100NB	114.3	4.5	12.40	•
PGMSS125	125NB	139.7	5.0	16.90	•
PGMSS150	150NB	165.1	5.0	20.00	•



## Notes

[illegible]





# Fittings

## Specifications

**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.

### BRITISH STANDARD THREADS

#### ALL MEASUREMENTS IN MM

NOMINAL BORE OF PIPE		APPROX OUTSIDE DIAMETER	NUMBER OF THREADS PER INCH	PITCH	DEPTH OF THREADS	DIAMETER AT GAUGE PLANE	LENGTH OF USEFUL THREAD
IMPERIAL	METRIC	A		P	H	B	E
1/8	6	10.16	28	0.907	0.581	9.72	6.5
1/4	8	13.66	19	1.337	0.856	13.15	9.7
3/8	10	17.17	19	1.337	0.856	16.66	10.1
1/2	15	21.51	14	1.814	1.162	20.95	13.2
3/4	20	27.00	14	1.814	1.162	26.44	14.5
1	25	33.93	11	2.309	1.479	33.24	16.8
1 1/4	32	42.59	11	2.309	1.479	41.91	19.1
1 1/2	40	48.48	11	2.309	1.479	47.80	19.1
2	50	60.47	11	2.309	1.479	59.61	23.4
2 1/2	65	76.09	11	2.309	1.479	75.18	26.7
3	80	88.87	11	2.309	1.479	87.88	29.8
4	100	114.14	11	2.309	1.479	113.03	35.8
5	125	139.65	11	2.309	1.479	138.43	40.1
6	150	165.12	11	2.309	1.479	163.83	40.1

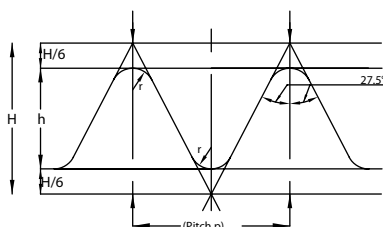


Fig. 1. (Parallel)  
 $H = 0.960491 \times p$   
 $h = 0.640327 \times p$   
 $r = 0.137329 \times p$

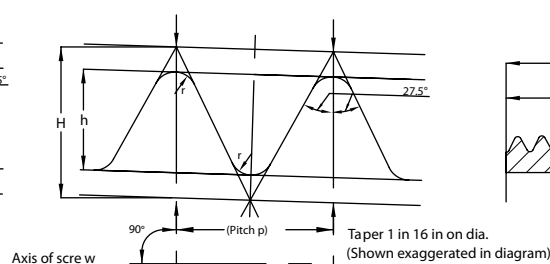


Fig. 2. (Taper)  
 $H = 0.960237 \times p$   
 $h = 0.640327 \times p$   
 $r = 0.137278 \times p$

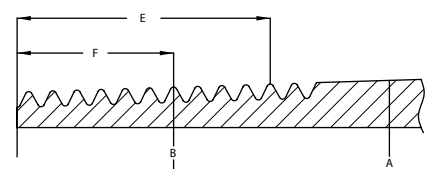
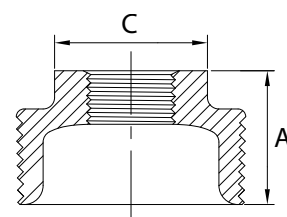
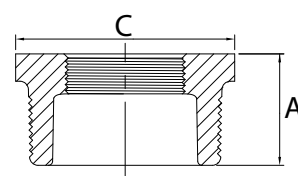


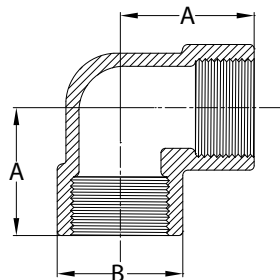
Fig. 3. (Taper)

## Galvanised Malleable Hexagon Bush

Galvanised Malleable Hexagon Bush				
CODE	METRIC SIZE	A	C	APPROX KG/PC
GB008006	8 x 6	17.0	16.3	0.01
GB010006	10 x 6	16.3	21.6	0.02
GB010008	10 x 8	16.3	21.1	0.02
GB015006	15 x 6	21.2	26.2	0.05
GB015008	15 x 8	19.0	26.2	0.04
GB015010	15 x 10	19.0	26.2	0.03
GB020006	20 x 6	21.6	29.2	0.08
GB020008	20 x 8	21.6	29.2	0.08
GB020010	20 x 10	21.6	29.2	0.06
GB020015	20 x 15	23.6	29.2	0.05
GB025008	25 x 8	28.7	28.5	0.09
GB025010	25 x 10	28.7	28.5	0.08
GB025015	25 x 15	28.0	36.1	0.09
GB025020	25 x 20	28.0	36.1	0.08
GB032010	32 x 10	31.4	28.5	0.13
GB032015	32 x 10	31.4	31.5	0.14
GB032020	32 x 20	27.4	44.7	0.16
GB032025	32 x 25	27.4	44.7	0.13
GB040010	40 x 10	33.0	28.5	0.17
GB040015	40 x 15	33.0	34	0.17
GB040020	40 x 20	33.0	36.5	0.18
GB040025	40 x 25	31.2	50.8	0.21
GB040032	40 x 32	31.2	50.8	0.15
GB050010	50 x 10	32.4	28.5	0.28
GB050015	50 x 15	35.3	34.0	0.26
GB050020	50 x 20	35.3	41.4	0.29
GB050025	50 x 25	35.3	45.0	0.30
GB050032	50 x 32	38.0	63.0	0.34
GB050040	50 x 40	38.0	63.0	0.28
GB065025	65 x 25	38.4	49.5	0.44
GB065032	65 x 32	38.4	60.7	0.47
GB065040	65 x 40	38.4	75.7	0.53
GB065050	65 x 50	39.1	75.7	0.46
GB080025	80 x 25	40.9	49.5	0.64
GB080032	80 x 32	40.9	60.7	0.64
GB080040	80 x 40	40.9	68.1	0.69
GB080050	80 x 50	40.9	98.0	0.78
GB080065	80 x 65	40.9	98.0	0.76
GB100050	100 x 50	51.2	83.3	1.14
GB100065	100 x 65	46.2	98.1	1.30
GB100080	100 x 80	51.0	126.0	1.34
GB125100	125 x 100	57.2	146.8	2.23
GB150100	150 x 100	59.1	147.1	3.22
GB150125	150 x 125	54.7	179.1	3.13

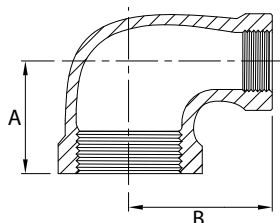


## Galvanised Malleable Female-Female Elbow 90 Degree



Galvanised Malleable Female-Female Elbow 90 Degree			
CODE	METRIC SIZE	A	APPROX KG/PC
GE006	6	17.5	0.03
GE008	8	20.6	0.05
GE010	10	24.1	0.1
GE015	15	28.5	0.1
GE020	20	33.3	0.2
GE025	25	38.1	0.3
GE032	32	44.5	0.4
GE040	40	49.3	0.6
GE050	50	57.2	0.8
GE065	65	68.6	1.5
GE080	80	78.2	2.3
GE100	100	96.3	4.1
GE150	150	130.3	10.7

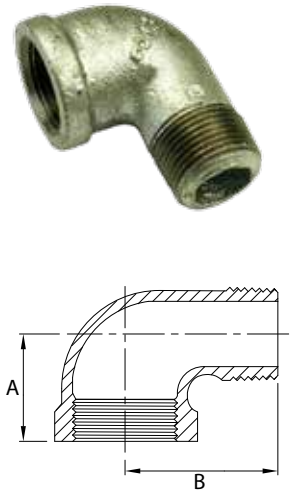
## Galvanised Malleable Female-Female Reducing Elbow 90 Degree



Galvanised Malleable Female-Female Reducing Elbow 90 Degree				
CODE	METRIC SIZE	A	B	APPROX KG/PC
GER010006	10 x 6	20.5	21.6	0.058
GER010008	10 x 8	22.4	22.9	0.062
GER015008	15 x 8	24.6	24.9	0.08
GER015010	15 x 10	26.4	26.2	0.09
GER020010	20 x 10	28.5	28.7	0.12
GER020015	20 x 15	30.5	31.0	0.14
GER025010	25 x 10	31.0	32.1	0.16
GER025015	25 x 15	32.0	35.5	0.20
GER025020	25 x 20	34.8	36.8	0.23
GER032015	32 x 15	34.0	38.9	0.27
GER032020	32 x 20	36.8	41.2	0.30
GER032025	32 x 25	40.1	42.4	0.37
GER040015	40 x 15	35.0	42.0	0.33
GER040020	40 x 20	38.6	44.5	0.39
GER040025	40 x 25	41.9	45.7	0.43
GER040032	40 x 32	46.2	47.8	0.51
GER050015	50 x 15	37.6	47.5	0.47
GER050020	50 x 20	40.6	50.0	0.54
GER050025	50 x 25	43.9	51.3	0.58
GER050032	50 x 32	48.3	53.3	0.71
GER050040	50 x 40	51.3	54.9	0.76

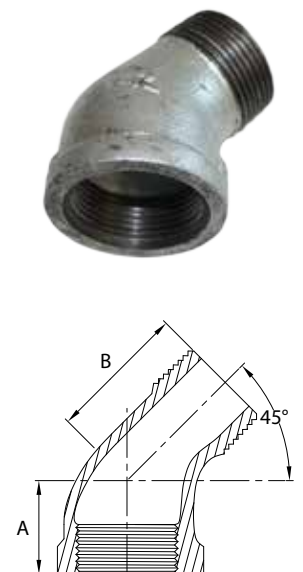
## Galvanised Malleable Male-Female Elbow 90 Degree

Galvanised Malleable Male-Female Elbow 90 Degree				
CODE	METRIC SIZE	A	B	APPROX KG/PC
GEMF006	6	17.5	25.4	0.052
GEMF008	8	20.2	29.6	0.05
GEMF010	10	24.1	37.6	0.07
GEMF015	15	27.9	40.4	0.10
GEMF020	20	32.6	47.0	0.18
GEMF025	25	37.3	53.3	0.27
GEMF032	32	44.5	65.2	0.43
GEMF040	40	48.3	66.9	0.62
GEMF050	50	56.1	81.1	1.02
GEMF065	65	67.2	96.0	1.51
GEMF080	80	76.6	112.3	2.39
GEMF100	100	94.4	141.6	4.06



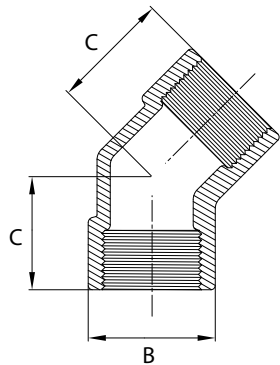
## Galvanised Malleable Male-Female Elbow 45 Degree

Galvanised Malleable Male-Female Elbow 45 Degree				
CODE	METRIC SIZE	A	B	APPROX KG/PC
GEMF45006	6	16.0	21.0	0.024
GEMF45015	15	21.9	33.0	0.09
GEMF45020	20	24.4	37.5	0.13
GEMF45025	25	27.9	43.0	0.22
GEMF45032	32	32.1	47.4	0.32
GEMF45040	40	35.6	52.0	0.46
GEMF45050	50	41.8	60.4	0.76
GEMF45065	65	49.5	69.0	1.35



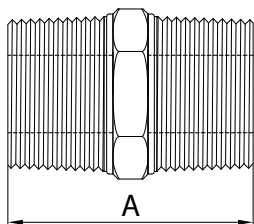


## Galvanised Malleable Female-Female Elbow 45 Degree



Galvanised Malleable Female-Female Elbow 45 Degree			
CODE	METRIC SIZE	A	APPROX KG/PC
GE45008	8	18.5	0.05
GE45010	10	20.3	0.07
GE45015	15	22.4	0.10
GE45020	20	24.9	0.15
GE45025	25	28.5	0.23
GE45032	32	32.8	0.33
GE45040	40	36.3	0.46
GE45050	50	42.7	0.70
GE45065	65	49.5	1.26
GE45080	80	55.1	2.04
GE45100	100	66.3	3.38

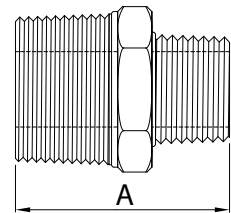
## Galvanised Malleable Hexagon Nipple



Galvanised Malleable Hexagon Nipple			
CODE	METRIC SIZE	A	APPROX KG/PC
GN008	8	38.0	0.03
GN010	10	39.0	0.04
GN015	15	44.7	0.07
GN020	20	49.3	0.11
GN025	25	54.2	0.19
GN032	32	57.1	0.28
GN040	40	60.0	0.34
GN050	50	69.3	0.54
GN065	65	73.2	0.50
GN080	80	83.3	0.83
GN100	100	96.7	1.16
GN150	150	117.5	3.00

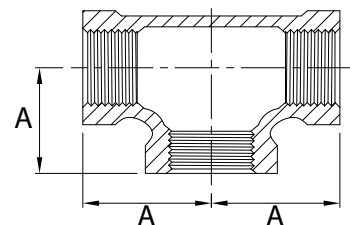
## Galvanised Malleable Hexagon Reducing Nipple

Galvanised Malleable Hexagon Reducing Nipple			
CODE	METRIC SIZE	A	APPROX KG/PC
GNR015008	15 x 8	44	0.05
GNR015010	15 x 10	44	0.05
GNR020010	20 x 10	47	0.1
GNR020015	20 x 15	47	0.1
GNR025015	25 x 15	53	0.12
GNR025020	25 x 20	53	0.12
GNR032020	32 x 20	57	0.22
GNR032025	32 x 25	57	0.22
GNR040015	40 x 15	59	0.3
GNR040020	40 x 20	59	0.3
GNR040025	40 x 25	59	0.3
GNR040032	40 x 32	59	0.3
GNR050025	50 x 25	68	0.42
GNR050032	50 x 32	68	0.42
GNR050040	50 x 40	68	0.42
GNR065050	65 x 50	75	0.69
GNR080050	80 x 50	83	1
GNR080065	80 x 65	83	1
GNR100080	100 x 80	92	1.42

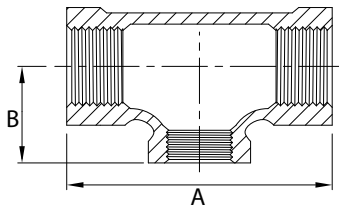


## Galvanised Malleable Equal Tee

Galvanised Malleable Equal Tee			
CODE	METRIC SIZE	A	APPROX KG/PC
GT006	6	17.5	0.05
GT008	8	20.6	0.07
GT010	10	24.1	0.10
GT015	15	28.5	0.16
GT020	20	33.3	0.22
GT025	25	38.1	0.38
GT032	32	44.5	0.59
GT040	40	49.3	0.75
GT050	50	57.3	0.01
GT065	65	68.6	2.02
GT080	80	78.2	3.05
GT100	100	96.3	5.13
GT150	150	119.3	9.6



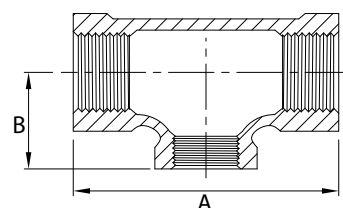
## Galvanised Malleable Reducing Tee



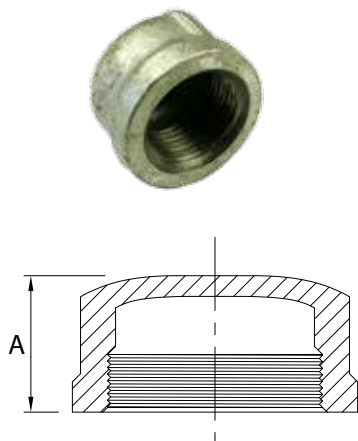
Galvanised Malleable Reducing Tee				
CODE	METRIC SIZE	A	B	APPROX KG/PC
GTR015008	15 x 8	49.2	24.9	0.12
GTR015010	15 x 10	51.8	25.7	0.14
GTR020010	20 x 10	55.8	28.1	0.18
GTR020015	20 x 15	59.0	29.0	0.17
GTR201515	20 x 15 x 15	27.8	30.4	0.18
GTR025010	25 x 10	61.5	30.5	0.26
GTR025015	25 x 15	62.6	31.8	0.22
GTR025020	25 x 20	70.0	36.7	0.25
GTR251525	25 x 15 x 25	72.1	37.3	0.33
GTR252015	25 x 20 x 15	61.3	34.8	0.28
GTR252020	25 x 20 x 20	68.0	35.7	0.43
GTR252532	25 x 25 x 32	85.0	39.0	0.43
GTR252540	25 x 25 x 40	91.5	41.0	0.50
GTR252550	25 x 25 x 50	100.6	47.9	0.64
GTR032010	32 x 10	64.0	36.6	0.40
GTR032015	32 x 15	65.7	37.5	0.30
GTR032020	32 x 20	74.2	42.0	0.43
GTR032025	32 x 25	78.3	41.5	0.38
GTR322515	32 x 25 x 15	66.3	38.0	0.33
GTR322520	32 x 25 x 20	70.2	40.4	0.39
GTR322525	32 x 25 x 25	80.0	40.0	0.46
GTR322532	32 x 25 x 32	87.0	45.0	0.50
GTR323240	32 x 32 x 40	100.0	46.0	0.60
GTR323250	32 x 32 x 50	108.0	48.0	0.65
GTR040010	40 x 10	80.2	40.2	0.45
GTR040015	40 x 15	69.7	41.0	0.37
GTR040020	40 x 20	74.4	42.0	0.46
GTR040025	40 x 25	74.4	45.0	0.50
GTR040032	40 x 32	93.0	48.5	0.68

## Galvanised Malleable Reducing Tee (cont)

Galvanised Malleable Reducing Tee				
CODE	METRIC SIZE	A	B	APPROX KG/PC
GTR402520	40 x 25 x 20	72.0	44.0	0.51
GTR402525	40 x 25 x 25	125.7	45.7	0.51
GTR402532	40 x 25 x 32	88.6	47.8	0.56
GTR403215	40 x 32 x 15	69.8	42.2	0.45
GTR403225	40 x 32 x 25	82.7	46.5	0.53
GTR403232	40 x 32 x 32	90.7	47.8	0.73
GTR403240	40 x 32 x 40	95.1	48.3	0.70
GTR403250	40 x 32 x 50	110.0	49.0	0.88
GTR404050	40 x 40 x 50	107.6	50.3	0.88
GTR050015	50 x 15	74.7	48.0	0.55
GTR050020	50 x 20	80.0	49.0	0.60
GTR050025	50 x 25	88.9	56.0	0.85
GTR050032	50 x 32	98.4	51.0	0.95
GTR050040	50 x 40	109.4	52.0	0.86
GTR502540	50 x 25 x 40	95.1	53.8	0.80
GTR502550	50 x 25 x 50	106.4	56.1	0.96
GTR503225	50 x 32 x 25	86.0	51.5	0.75
GTR504025	50 x 40 x 25	85.8	51.3	0.80
GTR504032	50 x 40 x 32	92.6	52.2	0.76
GTR504050	50 x 40 x 50	109.8	56.1	1.03
GTR065040	65 x 40	109.8	63.8	1.51
GTR065050	65 x 50	121.4	66.0	1.70
GTR080040	80 x 40	116.4	71.1	2.17
GTR080050	80 x 50	126.0	70.0	1.83
GTR100050	100 x 50	136.4	84.9	3.67
GTR100065	100 x 65	155.0	89.2	4.19
GTR100080	100 x 80	164.2	89.6	4.19
GTR150080	150 x 80	185.0	120.7	8.59
GTR150100	150 x 100	209.8	125.5	8.89

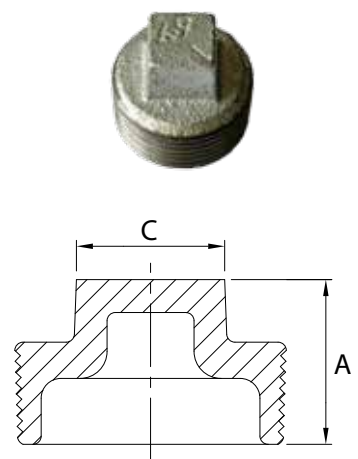


## Galvanised Malleable Cap



Galvanised Malleable Cap			
CODE	METRIC SIZE	A	APPROX KG/PC
GC008	8	16.0	0.03
GC010	10	18.8	0.04
GC015	15	22.1	0.06
GC020	20	24.6	0.08
GC025	25	29.5	0.14
GC032	32	32.5	0.21
GC040	40	33.8	0.30
GC050	50	36.8	0.45
GC065	65	43.2	0.72
GC080	80	45.7	1.14
GC100	100	52.8	1.85

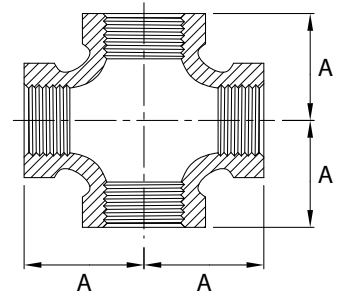
## Galvanised Malleable Square Head Plug



Galvanised Malleable Square Head Plug				
CODE	METRIC SIZE	A	C	APPROX KG/PC
GP006	6	15.9	7.1	0.01
GP008	8	18.7	9.5	0.02
GP010	10	20.6	11.0	0.02
GP015	15	24.4	14.3	0.04
GP020	20	27.7	15.9	0.06
GP025	25	31.8	20.9	0.10
GP032	32	35.1	23.8	0.15
GP040	40	37.5	28.6	0.19
GP050	50	40.5	33.3	0.31
GP065	65	50.8	38.1	0.41
GP080	80	49.7	42.9	0.76
GP100	100	56.4	58.0	1.37

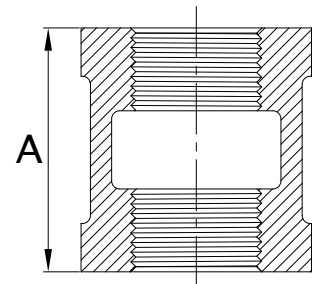
## Galvanised Malleable Cross

Galvanised Malleable Cross			
CODE	METRIC SIZE	A	APPROX KG/PC
GX010	10	24.1	0.12
GX015	15	28.5	0.19
GX020	20	33.3	0.29
GX025	25	38.1	0.45
GX032	32	44.5	0.66
GX040	40	49.3	0.86
GX050	50	57.2	1.34
GX065	65	68.6	2.49
GX080	80	80.0	3.59

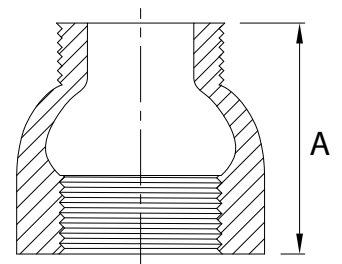


## Galvanised Malleable Socket

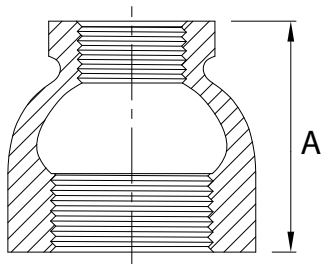
Galvanised Malleable Socket			
CODE	METRIC SIZE	A	APPROX KG/PC
GS006	6	24.4	0.03
GS008	8	26.9	0.04
GS010	10	29.5	0.1
GS015	15	34.0	0.1
GS020	20	38.6	0.1
GS025	25	42.4	0.2
GS032	32	49.0	0.3
GS040	40	54.6	0.4
GS050	50	64.6	0.6
GS065	65	73.2	1.1
GS080	80	80.8	1.6
GS100	100	93.7	2.6



Galvanised Malleable Male Female Socket			
CODE	METRIC SIZE	A	APPROX KG/PC
GSMF015	15	40.0	0.07
GSMF025	25	55.0	0.18



## Galvanised Malleable Reducing Socket

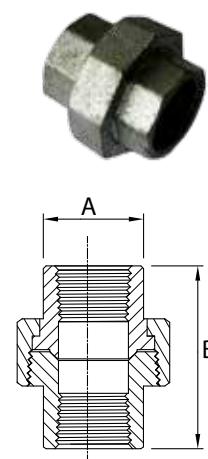


Galvanised Malleable Reducing Socket			
CODE	METRIC SIZE	A	APPROX KG/PC
GSR008006	8 x 6	25.4	0.033
GSR010008	10 x 8	28.7	0.05
GSR015008	15 x 8	31.8	0.05
GSR015010	15 x 10	31.8	0.07
GSR020008	20 x 8	36.6	0.09
GSR020010	20 x 10	36.6	0.10
GSR020015	20 x 15	36.6	0.11
GSR025008	25 x 8	42.0	0.14
GSR025010	25 x 10	42.9	0.16
GSR025015	25 x 15	42.9	0.16
GSR025020	25 x 20	42.9	0.18
GSR032015	32 x 15	52.3	0.24
GSR032020	32 x 20	52.3	0.26
GSR032025	32 x 25	52.3	0.28
GSR040015	40 x 15	58.7	0.31
GSR040020	40 x 20	58.7	0.32
GSR040025	40 x 25	58.7	0.35
GSR040032	40 x 32	58.7	0.39
GSR050015	50 x 15	71.4	0.52
GSR050020	50 x 20	71.4	0.52
GSR050025	50 x 25	71.4	0.55
GSR050032	50 x 32	71.4	0.54
GSR050040	50 x 40	71.4	0.62
GSR065025	65 x 25	82.6	0.89
GSR065032	65 x 32	82.6	0.93
GSR065040	65 x 40	82.6	0.94
GSR065050	65 x 50	82.6	1.01
GSR080025	80 x 25	93.7	1.39
GSR080032	80 x 32	93.7	1.40
GSR080040	80 x 40	93.7	1.47
GSR080050	80 x 50	93.7	1.50
GSR080065	80 x 65	93.7	1.61
GSR100050	100 x 50	111.3	2.52
GSR100065	100 x 65	111.3	2.68
GSR100080	100 x 80	111.3	2.74
GSR150100	150 x 100	147.5	6.67



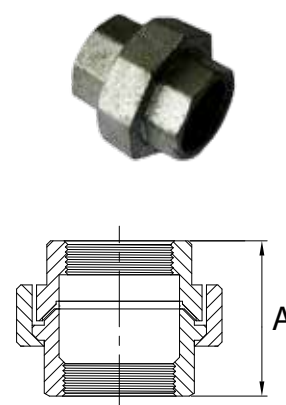
## Galvanised Malleable Steel to Brass Female-Female Union

Galvanised Malleable Steel to Brass Female-Female Union			
CODE	METRIC SIZE	A	APPROX KG/PC
GUB008	8	36.6	0.10
GUB010	10	40.9	0.16
GUB015	15	41.5	0.24
GUB020	20	45.0	0.35
GUB025	25	49.0	0.53
GUB032	32	58.0	0.75
GUB040	40	63.0	0.95
GUB050	50	77.0	1.47
GUB065	65	79.0	2.41
GUB080	80	82.0	3.15
GUB100	100	99.5	5.45

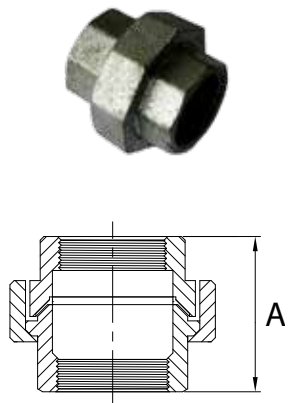


## Galvanised Malleable Female-Female Mac Union

Galvanised Malleable Steel to Steel Female-Female Union			
CODE	METRIC SIZE	A	APPROX KG/PC
GUM015	15	48.0	0.24
GUM020	20	52.0	0.35
GUM025	25	58.0	0.53
GUM032	32	65.0	0.75
GUM040	40	75.0	0.95
GUM050	50	85.0	1.47
GUM065	65	97.0	2.41
GUM080	80	110.0	3.15

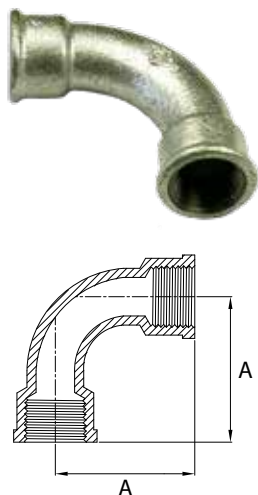


## Galvanised Malleable Steel to Steel Female-Female Union



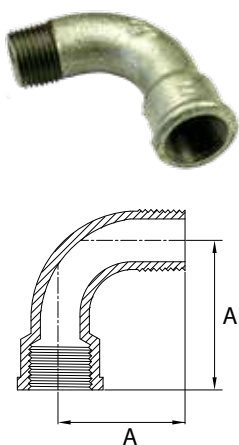
Galvanised Malleable Steel to Steel Female-Female Union			
CODE	METRIC SIZE	A	APPROX KG/PC
GUT010	10	43.0	0.10
GUT015	15	45.0	0.12
GUT020	20	50.0	0.20
GUT025	25	55.0	0.30
GUT032	32	62.0	0.45
GUT040	40	68.0	0.70
GUT050	50	75.0	1.20
GUT065	65	80.0	1.60

## Galvanised Malleable Female-Female Bend 90 Degree



Galvanised Malleable Female-Female Bend 90 Degree			
CODE	METRIC SIZE	A	APPROX KG/PC
GBE010	10	44.0	0.10
GBE015	15	52.0	0.13
GBE020	20	65.0	0.24
GBE025	25	82.0	0.35
GBE032	32	100.0	0.61
GBE040	40	115.0	0.77
GBE050	50	140.0	1.30
GBE065	65	175.0	2.40
GBE080	80	205.0	3.57
GBE100	100	260.0	6.50

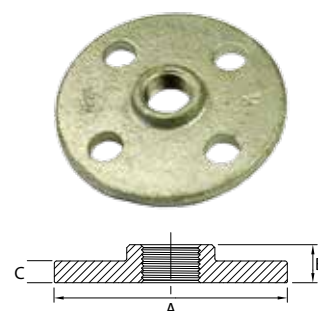
## Galvanised Malleable Male-Female Bend 90 Degree



Galvanised Malleable Male-Female Bend 90 Degree			
CODE	METRIC SIZE	A	APPROX KG/PC
GBEMF008	8	38.0	0.06
GBEMF010	10	44.0	0.08
GBEMF015	15	52.0	0.10
GBEMF020	20	65.0	0.19
GBEMF025	25	82.0	0.30
GBEMF032	32	100.0	0.53
GBEMF040	40	115.0	0.66
GBEMF050	50	140.0	1.20
GBEMF065	65	175.0	2.25
GBEMF080	80	205.0	3.00
GBEMF100	100	260.0	6.75

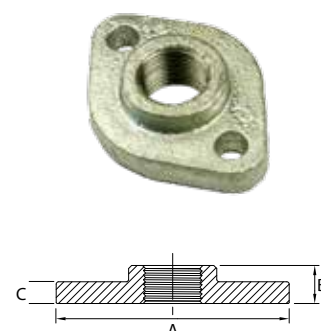
## Galvanised Malleable Flange BS10 Drilled Table “D”

Galvanised Malleable Flange BS10 Drilled Table “D”					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
GFT015	15	88.9	12.7	7.2	0.29
GFT020	20	88.9	15.9	7.9	0.33
GFT025	25	101.6	17.5	8.7	0.46
GFT032	32	101.6	19.1	8.7	0.45
GFT040	40	114.3	22.2	9.5	0.62
GFT050	50	139.7	25.4	10.3	0.96
GFT065	65	165.0	30.0	10.3	1.28
GFT080	80	185.0	33.8	10.3	1.75
GFT100	100	215.0	39.0	11.2	2.63
GFT150	150	280.0	41.7	13.8	4.72



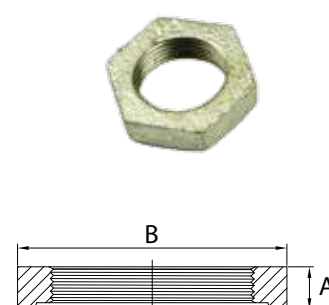
## Galvanised Malleable Flange Oval

Galvanised Malleable Flange Oval					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
GFO015	15	62.0	6.0	4.4	0.18
GFO020	20	73.0	10.5	5.0	0.27
GFO025	25	84.1	11.2	4.8	0.38
GFO032	32	100.0	12.7	5.6	0.59
GFO040	40	109.5	14.3	6.4	0.72

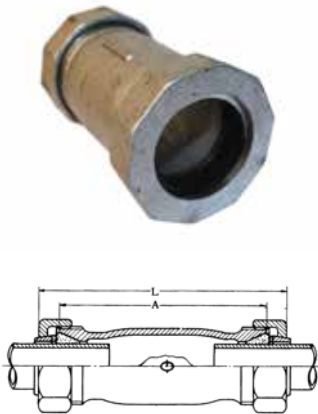


## Galvanised Malleable Backnut

Galvanised Malleable Backnut				
CODE	METRIC SIZE	A	B	APPROX KG/PC
GBNUT015	15	8.1	30.0	0.03
GBNUT020	20	8.8	36.3	0.04
GBNUT025	25	9.9	44.5	0.06
GBNUT032	32	10.9	53.3	0.09
GBNUT040	40	12.1	59.7	0.11
GBNUT050	50	13.7	73.2	0.18
GBNUT065	65	16.0	90.1	0.29
GBNUT080	80	20.8	107.0	0.54
GBNUT100	100	23.7	136.0	1.06

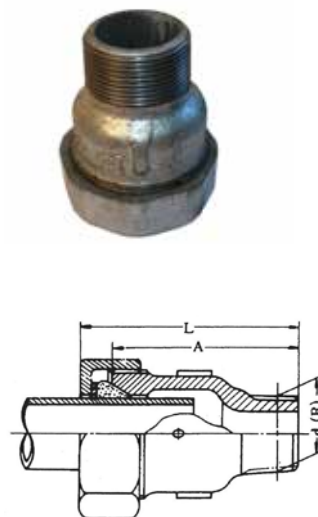


## Galvanised Malleable Female-Female Long Compression Coupling



Galvanised Malleable Female-Female Long Compression Coupling				
CODE	METRIC SIZE	A	L	APPROX KG/PC
GCC015	15	83	95	0.25
GCC020	20	90	100	0.45
GCC025	25	98	110	0.80
GCC032	32	105	112	0.80
GCC040	40	115	120	1.10
GCC050	50	112	123	1.40

## Galvanised Malleable Male-Female Long Compression Coupling

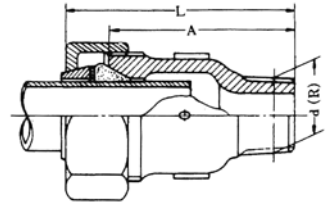


Galvanised Malleable Male-Female Long Compression Coupling				
CODE	METRIC SIZE	A	L	APPROX KG/PC
GCCMF020	20	53	65	0.20
GCCMF025	25	58.5	70.5	0.40
GCCMF032	36	62	75	0.50
GCCMF040	40	64.5	77.5	0.70

## Galvanised Malleable Riken Male-Female Compression Coupling

**Galvanised Malleable RIKEN (HI-LA) Male Adaptor Coupling**

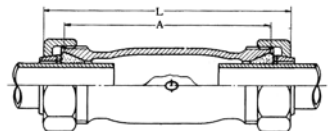
CODE	METRIC SIZE	A	L	APPROX KG/PC
GCRA015	15	50	62	0.20
GCRA020	20	53	65	0.30
GCRA025	25	58.5	70.5	0.40
GCRA032	35	62	75	0.50
GCRA040	40	64.5	77.5	0.60
GCRA050	50	72	88	1.00



## Galvanised Malleable Riken Compression Coupling

**Galvanised Malleable RIKEN (HI-LA) Coupling Lockrings**

CODE	METRIC SIZE	A	L	APPROX KG/PC
GCRC015	15	87.5	112.5	0.22
GCRC020	20	94	119	0.45
GCRC025	25	100	125	0.65
GCRC032	32	106	132	0.85
GCRC040	40	112.5	139.5	1.20
GCRC050	50	119	151	1.70



## Specifications

H J Asmuß & Co Ltd 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:

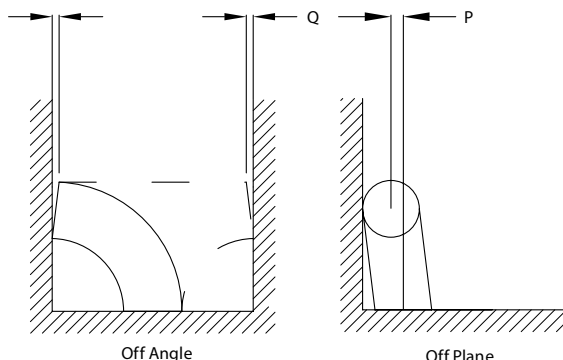
- Welding a fitting to the pipe means that it is permanently leak proof.
- The continuous metal structure formed between the pipe and fitting adds strength to the system.
- Smoother inner surface and gradual direction change reduce the pressure losses and turbulence and minimises the action of corrosion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

## Butt Weld Fittings Specifications Standard Weight

Dimensional Tolerance

Buttweld STD ASTM A234 WPB ANSI B16.9 Dimensional Tolerance							
ALL FITTINGS				90° & 45° ELBOWS	TEES	REDUCERS	CAPS
NOMINAL PIPE SIZE (NPS)	OUTSIDE DIAMETER AT BEVEL	INSIDE DIAMETER AT END	WALL THICKNESS	CENTRE TO END	CENTRE TO END	OVERALL LENGTH	OVERALL LENGTH
1/2” – 2 1/2”	+1.5MM -0.7MM	+0.8MM -0.8MM	NOT LESS THAN 87.50% OF NOMINAL WALL THICKNESS	+2.0MM -2.0MM	+2.0MM -2.0MM	+2.0MM -2.0MM	+3.0MM – 3.0MM
3” - 4”	+1.5MM -1.5MM	+1.5MM -1.5MM					+6.3MM -6.3MM
5” – 8”	+2.2MM -1.5MM						
10” – 12”	+4.0MM -3.0MM	+3.2MM -3.2MM					
20” – 24”	+6.4MM -4.8MM	+4.8MM -4.8MM					



ANGULARITY		
NOMINAL PIPE SIZE (NPS)	OFF ANGLE (Q)	OFF PLANE (P)
1/2" – 2 1/2"	1.0MM	2.0MM
3" – 3 1/2"	2.0MM	4.0MM
4"	3.0MM	5.0MM
5" – 8"		6.0MM
10" – 18"	4.0MM	10.0MM
20" – 24"	5.0MM	

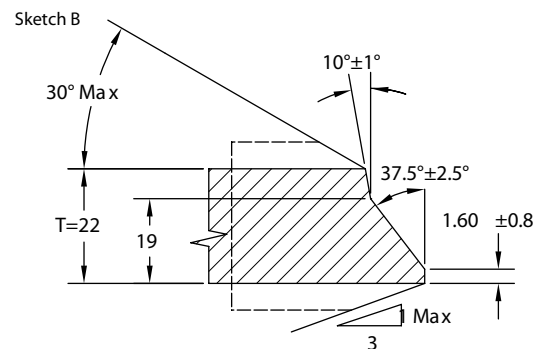
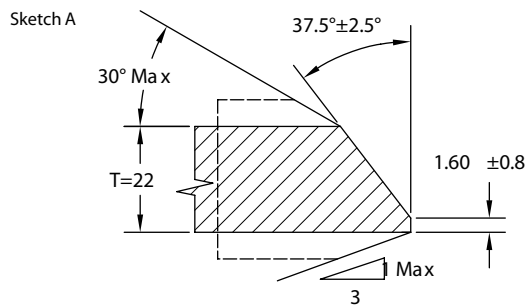
# Butt Weld Fittings Specifications Light Weight

Dimensional Tolerance

SGP JIS B 2311 Dimensional Tolerance						
ALL FITTINGS				90° & 45° ELBOWS	TEES	REDUCERS
NOMINAL PIPE SIZE (NPS)	OUTSIDE DIAMETER AT BEVEL	INSIDE DIAMETER AT END	WALL THICKNESS	CENTRE TO END	CENTRE TO END	OVERALL LENGTH
2" – 2 1/2"	+2.0MM -2.0MM	+2.0MM -2.0MM	+NOT SPECIFIED -15.00%	+2.0MM - 2.0MM	+2.0MM -2.0MM	+2.0MM -2.0MM
3" – 4"	+2.5MM -2.5MM	+2.5MM -2.5MM				
5" – 8"	+3.5MM -3.5MM	+3.5MM -3.5MM		+3.5MM -3.5MM	+3.2MM -3.2MM	+3.2MM -3.2MM

## Welding End Preparation Selection

Butt Weld STD ASTM A234 ANSI B16.9 Welding End Preparation To ANSI B16.25	
WALL THICKNESS	WELDING END PREPARATION
LESS THAN T (*)	CUT SQUARE OR SLIGHTLY CHAMFERED AT MANUFACTURER'S OPTION.
T (*) TO 22 INCLUDED	PLAIN BEVEL AS SKETCH (A)
MORE THAN 22	COMPOUND BEVEL AS SKETCH (B)
NOTE :- ( * )	T = 5MM FOR CARBON, FERRITIC ALLOY STEEL OR WROUGHT IRON;
	T = 4MM FOR AUSTENITIC ALLOY STEEL



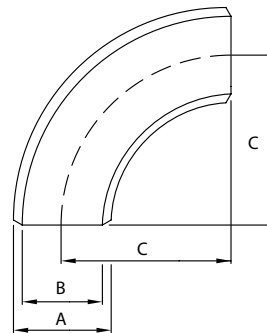


## Material Specifications

Pressure / Temperature Ratings											
Seamless Carbon Steel Pipe Grade B											
NOMINAL SIZE DN MM	TEMP C			-29 TO 38	205	260	350	370	400	430	450
	WALL THICKNESS			MAXIMUM ALLOWABLE PRESSURE / TEMPERATURE RATINGS IN KPA (TO ANSI/ASME B31.3A)							
		SCHED NO.	MM								
15	STD	40	2.77	34416	34416	32528	29255	28910	22372	18589	14972
	XS	80	3.73	48092	48092	45446	40878	40396	31260	25969	20918
20	STD	40	2.87	28070	28070	26526	23860	23578	18245	15158	12209
	XS	80	3.91	39418	39418	37247	33506	33106	25617	21283	17142
25	STD	40	3.38	26251	26251	24804	22310	22048	17060	14173	11417
	XS	80	4.55	36283	36283	34285	38040	30474	23584	19595	15785
32	STD	40	3.56	21614	21614	20421	18369	18155	14049	11672	9404
	XS	80	4.85	30178	30178	28518	25651	25348	19616	16295	13125
40	STD	40	3.68	19444	19444	18375	16529	16329	12636	10500	8454
	XS	80	5.08	27404	27402	25900	23295	23019	17811	14800	11919
50	STD	40	3.91	16378	16378	15468	13925	13759	10645	8847	7124
	XS	80	5.54	23653	23653	22351	20105	19871	15378	12774	10287
65	STD	40	5.16	17914	17914	16929	15227	15048	11644	9674	7793
	XS	80	7.01	24818	24818	23447	21097	20849	16129	13401	10797
80	STD	40	5.49	15558	15558	14696	13222	13063	10108	8399	6766
	XS	80	7.62	21986	21986	20780	18693	18472	14290	11871	9563
100	STD	40	6.02	13187	13187	12464	11210	11079	8571	7124	5739
	XS	80	8.56	19058	19058	18010	16198	16012	12388	12094	8289
125	STD	40	6.55	11561	11561	10921	9825	9708	7517	6243	5038
	XS	80	9.53	17060	17060	16122	14503	14331	11093	9212	7421
150	STD	40	7.11	10500	10500	9928	8924	8819	6828	5670	4568
	XS	80	10.97	16474	16474	15571	14007	13842	10707	8895	7165
200	STD	40	8.18	9246	9246	8737	7855	7765	6008	4995	4024
	XS	80	12.7	14572	14572	13766	12388	12237	9474	7868	6338
250	STD	40	9.27	8385	8385	7923	7131	7048	5450	4527	3652
	XS		12.7	11595	11595	10955	9853	9736	7538	6263	5043
300	STD	60	9.53	7241	7241	6842	6153	6084	4706	3914	3149
	XS		12.7	9722	9722	9191	8268	8165	6318	5250	4230
350	STD	30	9.53	6580	6580	6222	5595	5533	4279	3555	2866
	XS		12.7	8833	8833	8351	7510	7421	5739	4768	3845
400	STD	30	9.53	5746	5746	5429	4885	4830	3734	3100	2501
	XS	40	12.7	7703	7703	7283	6545	6470	5009	4162	3349
450	STD		9.53	5099	5099	4816	4334	4286	3314	2756	2219
	XS		12.7	6835	6835	6456	5808	5739	4437	3686	2969
500	STD	20	9.53	4582	4582	4327	3893	3852	2976	2474	1991
	XS	30	12.7	6139	6139	5801	5216	5154	3989	3314	2666
600	STD	20	9.53	3810	3810	3603	3238	3197	2474	2060	1660
	XS		12.7	5097	5097	4816	4334	4286	3314	2756	2219

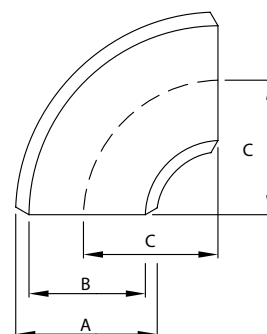
## Butt Weld Long Radius Elbow 90 Degree Lightweight

Long Radius Elbow 90 Degree LIGHTWEIGHT JIS B 2311						
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWEL025	25	33.5	30.3	38.1	3.2	0.15
BWEL032	32	42.2	38.7	47.8	3.5	0.25
BWEL040	40	48.3	44.8	57.2	3.5	0.35
BWEL050	50	60.5	52.9	76.2	3.8	0.61
BWEL065	65	76.3	67.9	95.3	4.2	1.08
BWEL080	80	89.1	80.7	114.3	4.2	1.66
BWEL100	100	114.3	105.3	152.4	4.5	2.87
BWEL125	125	139.8	130.8	190.5	4.5	4.31
BWEL150	150	165.2	155.2	228.6	5.0	6.57
BWEL200	200	216.3	204.7	304.8	5.8	13.47



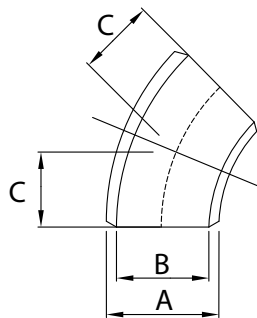
## Butt Weld Short Radius Elbow 90 Degree Lightweight

Short Radius Elbow 90 Degree LIGHTWEIGHT JIS B 2311						
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWES90L065	65	76.3	67.9	63.5	4.2	0.8
BWES90L080	80	89.1	80.7	76.2	4.2	1.1
BWES90L100	100	114.3	105.3	101.6	4.5	1.9
BWES90L200	200	216.3	204.7	203.2	5.8	9.8



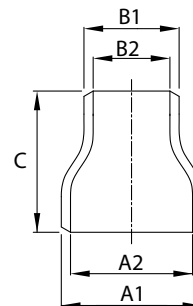
## Butt Weld Long Radius Elbow 45 Degree Lightweight

Long Radius Elbow 45 Degree LIGHTWEIGHT JIS B 2311						
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWE45L050	50	60.5	52.9	31.6	3.8	0.3
BWE45L065	65	76.3	67.9	69.5	4.2	0.5
BWE45L080	80	89.1	80.7	47.3	4.2	0.7
BWE45L100	100	114.3	105.3	63.1	4.5	1.3
BWE45L125	125	139.8	130.8	78.9	4.5	2.0
BWE45L150	150	165.2	155.2	94.7	5.0	3.4



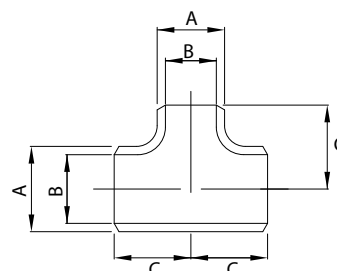
# Butt Weld Concentric Reducer Lightweight

Concentric Reducer LIGHTWEIGHT JIS B 2311								
CODE	NB	LARGER DIAMETER		SMALLER DIAMETER		END TO END	WALL THICKNESS	APPROX KG/PC
		A1	A2	B1	B2	C		
BWRCL065050	65 x 50	76.3	67.9	60.5	52.9	88.9	4.2	0.59
BWRCL080050	80 x 50	89.1	80.7	60.5	52.9	88.9	4.2	0.66
BWRCL080065	80 x 65	89.1	80.7	76.3	67.9	88.9	4.2	0.73
BWRCL100050	100 x 50	114.3	105.3	60.5	52.9	101.6	4.5	0.97
BWRCL100065	100 x 65	114.3	105.3	76.3	67.9	101.6	4.5	1.04
BWRCL100080	100 x 80	114.3	105.3	89.1	80.7	101.6	4.5	1.10
BWRCL125065	125 x 65	139.8	130.8	76.3	67.9	127.0	4.5	1.50
BWRCL125080	125 x 80	139.8	130.8	89.1	80.7	127.0	4.5	1.58
BWRCL125100	125 x 100	139.8	130.8	114.3	105.3	127.0	4.5	1.74
BWRCL150065	150 x 65	165.2	155.2	76.3	67.9	139.7	5.0	2.09
BWRCL150100	150 x 100	165.2	155.2	114.3	105.3	139.7	5.0	2.36
BWRCL150125	150 x 125	165.2	155.2	139.8	130.8	139.7	5.0	2.55
BWRCL200100	200 x 100	216.3	204.7	114.3	105.3	152.4	5.8	3.67
BWRCL200125	200 x 125	216.3	204.7	139.8	130.8	152.4	5.8	3.87
BWRCL200150	200 x 150	216.3	204.7	165.2	155.2	152.4	5.8	4.17
BWRCL250150	250 x 150	267.4	254.2	165.2	155.2	177.8	5.0	6.32
BWRCL250200	250 x 200	267.4	254.2	216.3	204.7	177.8	6.6	6.87
BWRCL300200	300 x 200	318.5	304.7	216.3	204.7	203.2	6.9	9.29
BWRCL300250	300 x 250	318.5	304.7	267.4	254.2	203.2	6.9	9.97



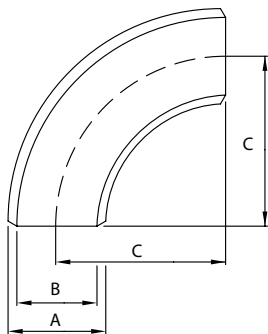
# Butt Weld Equal Tee Lightweight

Equal Tee LIGHTWEIGHT JIS B 2311						
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWTL065	65	76.3	67.9	76.2	4.2	1.7
BWTL080	80	89.1	80.7	85.7	4.2	2.0
BWTL100	100	114.3	105.3	104.8	4.5	3.4
BWTL150	150	165.2	155.2	142.9	5	11.4
BWTL200	200	219.1	204.7	177.8	5.8	17.9
BWTL250	250	267.4	254.2	215.9	6.6	21.8



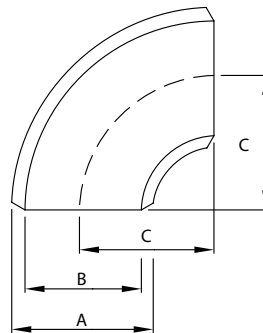
## Butt Weld Long Radius Elbow 90 Degree STD

Long Radius Elbow 90 Degree STD ASTM A234 WPB ANSI B16.9						
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWE90015	15	21.3	15.8	38.1	2.8	0.07
BWE90020	20	26.7	20.9	38.1	2.9	0.08
BWE90025	25	33.5	26.6	38.1	3.4	0.18
BWE90032	32	42.2	35.1	47.8	3.6	0.25
BWE90040	40	48.3	40.9	57.2	3.7	0.36
BWE90050	50	60.2	52.6	76.2	3.9	0.73
BWE90065	65	73.2	62.7	95.3	5.2	1.45
BWE90080	80	88.9	78.0	114.3	5.5	2.18
BWE90090	90	101.6	90.2	133.4	5.7	3.00
BWE90100	100	114.3	102.4	152.4	6.0	4.05
BWE90125	125	141.2	128.3	190.5	6.6	6.86
BWE90150	150	168.4	154.2	228.6	7.1	10.91
BWE90200	200	219.2	202.7	304.8	8.2	21.73
BWE90250	250	273.1	254.5	381.0	9.3	37.91
BWE90300	300	323.9	304.8	457.2	9.5	55.91
BWE90350	350	355.6	336.6	533.4	9.5	70.45
BWE90400	400	406.4	387.4	609.6	9.5	93.64
BWE90450	450	457.2	438.2	685.8	9.5	119.09
BWE90500	500	508.0	489.0	762.0	9.5	147.27
BWE90600	600	609.6	590.6	914.4	9.5	211.82



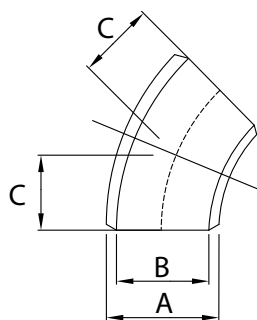
## Butt Weld Short Radius Elbow 90 Degree STD

Short Radius Elbow 90 Degree STD ASTM A234 WPB ANSI B16.9						
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWES90020	20	26.6	20.86	-	2.87	0.07
BWES90025	25	33.5	26.7	25.4	3.4	0.11
BWES90032	32	42.2	35.1	31.8	3.6	0.18
BWES90040	40	48.3	40.9	38.1	3.7	0.24
BWES90050	50	60.5	52.6	50.8	3.9	0.44
BWES90065	65	73.2	62.7	63.5	5.2	0.91
BWES90080	80	88.9	78.0	76.2	5.5	1.36
BWES90090	90	101.6	90.2	88.9	5.7	1.95
BWES90100	100	114.3	102.4	101.6	6.0	2.77
BWES90125	125	141.2	128.3	127.0	6.6	4.41
BWES90150	150	168.4	154.2	152.4	7.1	7.59
BWES90200	200	219.2	202.7	203.2	8.2	14.73
BWES90250	250	273.1	254.5	254.0	9.3	25.59
BWES90300	300	323.9	304.8	304.8	9.5	36.09



## Butt Weld Long Radius Elbow 45 Degree STD

Long Radius Elbow 45 Degree STD ASTM A234 WPB ANSI B16.9						
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWE45015	15	21.3	15.8	15.7	2.8	0.04
BWE45020	20	26.7	20.9	19.1	2.9	0.05
BWE45025	25	33.5	26.7	22.4	3.4	0.10
BWE45032	32	42.2	35.1	25.4	3.6	0.15
BWE45040	40	48.3	40.9	28.4	3.7	0.20
BWE45050	50	60.5	52.6	35.1	3.9	0.39
BWE45065	65	73.2	62.7	44.5	5.2	0.77
BWE45080	80	88.9	78.0	50.8	5.5	1.14
BWE45100	100	114.3	102.4	63.5	6.0	2.05
BWE45125	125	141.2	128.3	79.2	6.6	3.41
BWE45150	150	168.1	153.9	95.3	7.1	5.32
BWE45200	200	218.9	202.7	127.0	8.2	10.59
BWE45250	250	273.1	254.5	158.8	9.3	18.59
BWE45300	300	323.9	304.8	190.5	9.5	27.91
BWE45350	350	355.6	336.6	222.3	9.5	35.50
BWE45400	400	406.4	387.4	254.0	9.5	45.91



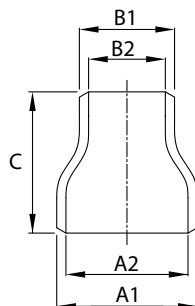


## Butt Weld Concentric Reducer STD

Concentric Reducer STD ASTM A234 WPB ANSI B16.9								
CODE	NB	LARGER DIAMETER		SMALLER DIAMETER		END TO END	WALL THICKNESS	APPROX KG/PC
		A1	A2	B1	B2	C		
BWRC020015	20 x 15	26.7	20.9	21.3	15.8	38.1	2.9	0.06
BWRC025015	25 x 15	33.4	26.6	21.3	15.8	50.8	3.4	0.11
BWRC025020	25 x 20	33.4	26.6	26.7	20.9	50.8	3.4	0.12
BWRC032015	32 x 15	42.2	35.1	21.3	15.8	50.8	3.6	0.13
BWRC032020	32 x 20	42.2	35.1	26.7	20.9	50.8	3.6	0.14
BWRC032025	32 x 25	42.2	35.1	33.4	26.6	50.8	3.6	0.16
BWRC040015	40 x 15	48.3	40.9	21.3	15.7	63.5	3.7	0.20
BWRC040020	40 x 20	48.3	40.9	26.7	20.9	63.5	3.7	0.20
BWRC040025	40 x 25	48.3	40.9	33.4	26.6	63.5	3.7	0.22
BWRC040032	40 x 32	48.3	40.9	42.2	35.1	63.5	3.7	0.24
BWRC050015	50 x 15	60.3	52.5	21.3	15.8	76.2	3.9	0.30
BWRC050020	50 x 20	60.3	52.5	26.7	20.9	76.2	3.9	0.30
BWRC050025	50 x 25	60.3	52.5	33.4	26.6	76.2	3.9	0.32
BWRC050032	50 x 32	60.3	52.5	42.2	35.1	76.2	3.9	0.35
BWRC050040	50 x 40	60.3	52.5	48.3	40.6	76.2	3.9	0.37
BWRC065025	65 x 25	73.0	62.7	33.4	26.6	88.9	5.2	0.59
BWRC065032	65 x 32	73.0	62.7	42.2	35.1	88.9	5.2	0.63
BWRC065040	65 x 40	73.0	62.7	48.3	40.9	88.9	5.2	0.66
BWRC065050	65 x 50	73.0	62.7	60.3	52.5	88.9	5.2	0.72
BWRC080025	80 x 25	88.9	78.7	33.4	26.6	88.9	5.5	0.73
BWRC080032	80 x 32	88.9	77.9	42.2	35.1	88.9	5.5	0.75
BWRC080040	80 x 40	88.9	77.9	48.3	40.9	88.9	5.5	0.78
BWRC080050	80 x 50	88.9	77.9	60.3	52.5	88.9	5.5	0.85
BWRC080065	80 x 65	88.9	77.9	73.0	62.7	88.9	5.5	0.93
BWRC100040	100 x 40	114.3	101.6	48.3	40.9	101.6	6.0	0.00
BWRC100050	100 x 50	114.3	101.6	60.3	52.5	101.6	6.0	1.27
BWRC100065	100 x 65	114.3	102.3	73.0	62.7	101.6	6.0	1.37
BWRC100080	100 x 80	114.3	102.3	88.9	77.9	101.6	6.0	1.45
BWRC125065	125 x 65	141.3	128.2	73.0	62.7	127.0	6.6	2.16
BWRC125080	125 x 80	141.3	128.2	88.9	77.9	127.0	6.6	2.27
BWRC125100	125 x 100	141.3	128.2	114.3	102.3	127.0	6.6	2.50
BWRC150050	150 x 50	168.3	154.1	60.3	52.5	139.7	7.1	2.92
BWRC150065	150 x 65	168.3	154.1	73.0	62.7	139.7	7.1	2.92
BWRC150080	150 x 80	168.3	154.1	88.9	77.9	139.7	7.1	3.04
BWRC150100	150 x 100	168.3	154.1	114.3	102.3	139.7	7.1	3.30
BWRC150125	150 x 125	168.3	154.1	141.3	128.2	139.7	7.1	3.57

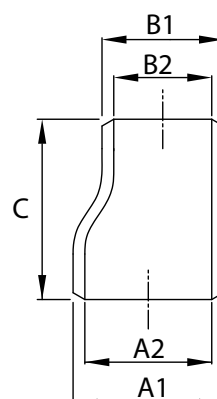
## Butt Weld Concentric Reducer STD (cont)

Concentric Reducer STD ASTM A234 WPB ANSI B16.9								
CODE	NB	LARGER DIAMETER		SMALLER DIAMETER		END TO END	WALL THICKNESS	APPROX KG/PC
		A1	A2	B1	B2	C		
BWRC200080	200 x 80	219.1	202.7	88.9	77.9	152.4	8.2	5.10
BWRC200100	200 x 100	219.1	202.7	114.3	102.3	152.4	8.2	5.10
BWRC200125	200 x 125	219.1	202.7	141.3	128.2	152.4	8.2	5.40
BWRC200150	200 x 150	219.1	202.7	168.3	154.1	152.4	8.2	5.71
BWRC250100	250 x 100	273.1	254.5	114.3	102.3	177.8	9.3	8.06
BWRC250150	250 x 150	273.1	254.5	168.3	154.1	177.8	9.3	8.78
BWRC250200	250 x 200	273.1	254.5	219.1	202.7	177.8	9.3	9.58
BWRC300150	300 x 150	323.9	304.8	168.3	154.1	203.2	9.5	11.80
BWRC300200	300 x 200	323.9	304.8	219.1	202.7	203.2	9.5	12.70
BWRC300250	300 x 250	323.9	304.8	273.1	254.5	203.2	9.5	13.60
BWRC350200	350 x 200	355.6	336.6	219.1	202.7	330.2	9.5	21.80
BWRC350250	350 x 250	355.6	336.6	273.1	254.5	330.2	9.5	23.60
BWRC350300	350 x 300	355.6	336.6	323.9	304.8	330.2	9.5	25.40
BWRC400200	400 x 200	406.4	387.4	219.1	202.7	355.6	9.5	27.80
BWRC400250	400 x 250	406.4	387.4	273.1	254.5	355.6	9.5	27.80
BWRC400300	400 x 300	406.4	387.4	323.9	304.8	355.6	9.5	29.60
BWRC400350	400 x 350	406.4	387.4	355.6	336.6	355.6	9.5	31.00
BWRC450250	450 x 250	457.2	438.2	273.1	254.5	381.0	9.5	34.30
BWRC450300	450 x 300	457.2	438.2	323.9	304.8	381.0	9.5	34.30
BWRC450350	450 x 350	457.2	438.2	355.6	336.6	381.0	9.5	35.70
BWRC450400	450 x 400	457.2	438.2	406.4	387.4	381.0	9.5	37.80



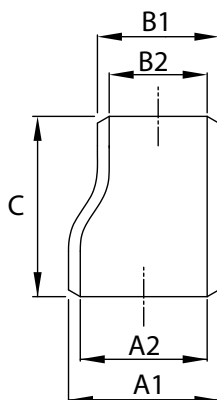
## Butt Weld Eccentric Reducer STD

Eccentric Reducer STD ASTM A234 WPB ANSI B16.9								
CODE	NB	LARGER DIAMETER		SMALLER DIAMETER		END TO END	WALL THICKNESS	APPROX KG/PC
		A1	A2	B1	B2	C		
BWRE020015	20 x 15	26.7	20.9	21.3	15.7	38.1	2.8	0.05
BWRE025015	25 x 15	33.7	25.9	21.3	15.7	50.8	3.4	0.10
BWRE025020	25 x 20	33.7	25.9	26.7	20.9	50.8	3.4	0.10
BWRE032015	32 x 15	42.2	35.0	21.3	15.7	50.8	3.6	0.13
BWRE032020	32 x 20	42.2	35.0	26.7	20.9	50.8	3.6	0.14
BWRE032025	32 x 25	42.2	35.0	33.7	25.9	50.8	3.6	0.20
BWRE040015	40 x 15	48.3	40.9	21.3	15.7	63.5	3.7	0.30
BWRE040020	40 x 20	48.3	40.9	26.7	20.9	63.5	3.7	0.20
BWRE040025	40 x 25	48.3	40.9	33.7	25.9	63.5	3.7	0.22
BWRE040032	40 x 32	48.3	40.9	42.2	35.0	63.5	3.7	0.24
BWRE050020	50 x 20	60.3	52.5	26.7	20.9	76.2	3.9	0.30
BWRE050025	50 x 25	60.3	52.5	33.7	25.9	76.2	3.9	0.32
BWRE050032	50 x 32	60.3	52.5	42.2	35.0	76.2	3.9	0.35
BWRE050040	50 x 40	60.3	52.5	48.3	40.9	76.2	3.9	0.72
BWRE065025	65 x 25	73.0	62.6	33.7	25.9	88.9	5.2	0.59
BWRE065032	65 x 32	73.0	62.6	42.2	35.0	88.9	5.2	0.63
BWRE065040	65 x 40	73.0	62.6	48.3	40.9	88.9	5.2	0.66
BWRE065050	65 x 50	73.0	62.6	60.3	52.5	88.9	5.2	0.72
BWRE080025	80 x 25	88.9	77.9	33.7	25.9	88.9	5.5	0.75
BWRE080032	80 x 32	88.9	77.9	42.2	35.0	88.9	5.5	0.75
BWRE080040	80 x 40	88.9	77.9	48.3	40.9	88.9	5.5	0.78
BWRE080050	80 x 50	88.9	77.9	60.3	52.5	88.9	5.5	0.85
BWRE080065	80 x 65	88.9	77.9	73.0	62.6	88.9	5.5	0.93
BWRE100040	100 x 40	114.3	102.3	48.3	40.9	101.6	6.1	1.27
BWRE100050	100 x 50	114.3	102.3	60.3	52.5	101.6	6.1	1.27
BWRE100065	100 x 65	114.3	102.3	73.0	62.6	101.6	6.1	1.37
BWRE100080	100 x 80	114.3	102.3	88.9	77.9	101.6	6.1	1.45
BWRE125080	125 x 80	141.3	128.1	88.9	77.9	127.0	6.6	2.27
BWRE125100	125 x 100	141.3	128.1	114.3	102.3	127.0	6.6	2.50
BWRE150080	150 x 80	168.3	154.1	88.9	77.9	139.7	7.1	3.04
BWRE150100	150 x 100	168.3	154.1	114.3	102.3	139.7	7.1	3.30
BWRE150125	150 x 125	168.3	154.1	141.3	128.1	139.7	7.1	3.57



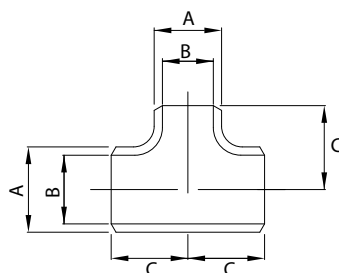
## Butt Weld Eccentric Reducer STD (cont)

Eccentric Reducer STD ASTM A234 WPB ANSI B16.9								
CODE	NB	LARGER DIAMETER		SMALLER DIAMETER		END TO END	WALL THICKNESS	APPROX KG/PC
		A1	A2	B1	B2	C		
BWRE200100	200 x 100	219.1	202.7	114.3	102.3	152.4	8.2	5.10
BWRE200125	200 x 125	219.1	202.7	141.3	128.1	152.4	8.2	5.40
BWRE200150	200 x 150	219.1	202.7	168.3	154.1	152.4	8.2	5.71
BWRE250150	250 x 150	273.1	254.5	168.3	154.1	177.8	9.3	8.78
BWRE250200	250 x 200	273.1	254.5	219.1	202.7	177.8	9.3	9.58
BWRE300150	300 x 150	323.9	304.9	168.3	154.1	203.2	9.5	12.80
BWRE300200	300 x 200	323.9	304.9	219.1	202.7	203.2	9.5	13.70
BWRE300250	300 x 250	323.9	304.9	273.1	254.5	203.2	9.5	14.70
BWRE350200	350 x 200	355.6	336.5	219.1	202.7	330.2	9.5	21.80
BWRE350250	350 x 250	355.6	336.5	273.1	254.5	330.2	9.5	23.60
BWRE350300	350 x 300	355.6	336.5	323.9	304.9	330.2	9.5	25.40
BWRE400250	400 x 250	406.4	387.4	273.1	254.5	355.6	9.5	27.80
BWRE400350	400 x 350	406.4	387.4	355.6	336.5	355.6	9.5	31.00



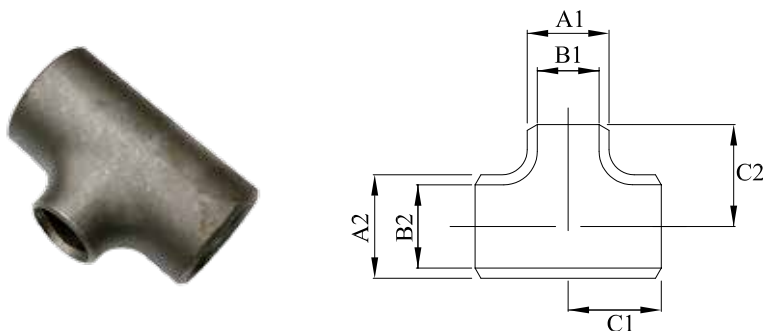
## Butt Weld Equal Tee STD

Equal Tee STD ASTM A234 WPB ANSI B16.9						
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWT015	15	22.0	15.7	38.1	2.9	0.10
BWT020	20	26.7	20.9	28.4	2.9	0.17
BWT025	25	33.4	26.6	38.1	3.4	0.35
BWT032	32	42.2	35.0	47.8	3.6	0.58
BWT040	40	48.3	40.9	57.2	3.7	0.76
BWT050	50	60.3	52.5	63.5	3.9	1.14
BWT065	65	73.0	62.6	76.2	5.2	2.03
BWT080	80	88.9	77.9	85.9	5.5	2.94
BWT100	100	114.3	102.3	104.6	6.1	4.67
BWT125	125	141.3	128.1	124.0	6.6	7.48
BWT150	150	168.3	154.1	142.7	7.1	11.35
BWT200	200	219.1	202.7	177.8	8.2	18.21
BWT250	250	273.1	254.5	215.9	9.3	34.71
BWT300	300	323.9	304.9	254.0	9.5	46.82
BWT350	350	355.6	336.5	279.0	9.5	73.00
BWT400	400	406.4	387.3	305.0	9.5	91.00
BWT450	450	457.0	437.9	343.0	9.5	135.00
BWT500	500	508.0	489.0	762.0	9.5	173.00



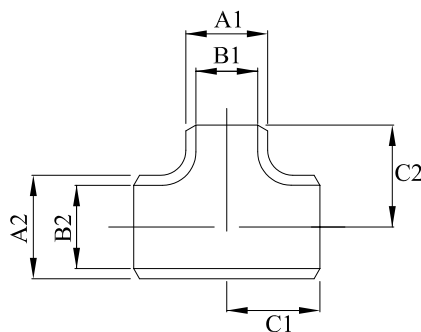
## Butt Weld Reducing Tee STD

Eccentric Reducer STD ASTM A234 WPB ANSI B16.9									
CODE	NB	LARGER DIAMETER		SMALLER DIAMETER		END TO END		WALL THICKNESS	APPROX KG/PC
		A1	A2	B1	B2	C1	C2		
BWTR020015	20 x 15	26.7	20.9	21.3	15.8	28.4	28.4	2.9	0.12
BWTR025015	25 x 15	33.4	26.6	21.3	15.8	38.1	38.1	3.4	0.22
BWTR025020	25 x 20	33.4	26.6	26.7	20.9	38.1	38.1	3.4	0.23
BWTR032015	32 x 15	42.2	35.1	21.3	15.8	47.5	47.5	3.6	0.37
BWTR032020	32 x 20	42.2	35.1	26.7	20.9	47.5	47.5	3.6	0.37
BWTR032025	32 x 25	42.2	35.1	33.4	26.6	47.5	47.5	3.6	0.39
BWTR040015	40 x 15	48.3	40.9	21.3	15.8	57.2	57.2	3.7	0.52
BWTR040020	40 x 20	48.3	40.9	26.7	20.9	57.2	57.2	3.7	0.52
BWTR040025	40 x 25	48.3	40.9	33.4	26.6	57.2	57.2	3.7	0.55
BWTR040032	40 x 32	48.3	40.9	42.2	35.1	57.2	57.2	3.7	0.68
BWTR050020	50 x 20	60.3	52.5	26.7	20.9	63.5	50.8	3.9	0.74
BWTR050025	50 x 25	60.3	52.5	33.4	26.6	63.5	50.8	3.9	0.74
BWTR050032	50 x 32	60.3	52.5	42.2	35.1	63.5	57.2	3.9	0.89
BWTR050040	50 x 40	60.3	52.5	48.3	40.9	63.5	60.2	3.9	0.93
BWTR065025	65 x 25	73.0	62.7	33.4	26.6	76.2	63.5	5.2	1.56
BWTR065032	65 x 32	73.0	62.7	42.2	35.1	76.2	63.5	5.2	1.56
BWTR065040	65 x 40	73.0	62.7	48.3	40.9	76.2	66.5	5.2	1.47
BWTR065050	65 x 50	73.0	62.7	60.3	52.5	76.2	69.9	5.2	1.53
BWTR080025	80 x 25	88.9	77.9	33.4	26.6	85.6	72.9	5.5	2.08
BWTR080032	80 x 32	88.9	77.9	48.3	40.9	85.6	72.9	5.5	2.08
BWTR080040	80 x 40	88.9	77.9	48.3	40.9	85.6	72.9	5.3	2.08
BWTR080050	80 x 50	88.9	77.9	60.3	52.5	96.0	76.2	5.5	2.14
BWTR080065	80 x 65	88.9	77.9	73.0	62.7	96.0	82.6	5.5	2.27
BWTR100040	100 x 40	114.3	102.3	48.3	40.9	104.6	88.9	6.0	3.55
BWTR100050	100 x 50	114.3	102.3	60.3	52.5	104.6	88.9	6.0	3.55
BWTR100065	100 x 65	114.3	102.3	73.0	62.7	104.6	95.3	6.0	3.69
BWTR100080	100 x 80	114.3	102.3	88.9	77.9	104.6	98.3	6.0	3.82
BWTR125080	125 x 80	141.3	128.2	88.9	77.9	123.7	120.7	6.6	8.10
BWTR125100	125 x 100	141.3	128.2	114.3	102.3	123.7	117.3	6.6	6.18
BWTR150065	150 x 65	168.3	154.1	73.0	62.7	142.7	123.7	7.1	8.52
BWTR150080	150 x 80	168.3	154.1	88.9	77.9	142.7	123.7	7.1	8.52
BWTR150100	150 x 100	168.3	154.1	114.3	102.3	142.7	130.0	7.1	8.81
BWTR150125	150 x 125	168.3	154.1	141.3	128.2	142.7	146.1	7.1	9.22



## Butt Weld Reducing Tee STD (cont)

Eccentric Reducer STD ASTM A234 WPB ANSI B16.9									
CODE	NB	LARGER DIAMETER		SMALLER DIAMETER		END TO END		WALL THICKNESS	APPROX KG/PC
		A1	A2	B1	B2	C1	C2		
BWTR200080	200 x 80	219.1	202.7	88.9	77.9	177.8	155.4	8.2	18.00
BWTR200100	200 x 100	219.1	202.7	114.3	102.3	177.8	155.4	8.2	18.00
BWTR200125	200 x 125	219.1	202.7	141.3	128.2	177.8	161.8	8.2	18.40
BWTR200150	200 x 150	219.1	202.7	168.3	154.1	177.8	168.1	8.2	18.80
BWTR250100	250 x 100	273.1	254.5	114.3	102.3	215.9	190.5	9.3	30.10
BWTR250125	250 x 125	273.1	254.5	141.3	128.2	215.9	190.5	9.3	30.10
BWTR250150	250 x 150	273.1	254.5	168.3	154.1	215.9	193.5	9.3	30.50
BWTR250200	250 x 200	273.1	254.5	219.1	202.7	215.9	203.2	9.3	32.40
BWTR300150	300 x 150	323.9	304.8	168.3	154.1	254.0	218.9	9.5	51.20
BWTR300200	300 x 200	323.9	304.8	219.1	202.7	254.0	228.6	9.5	53.10
BWTR300250	300 x 250	323.9	304.8	273.1	254.5	254.0	241.3	9.5	55.20

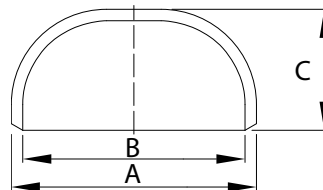




## Butt Weld Cap STD

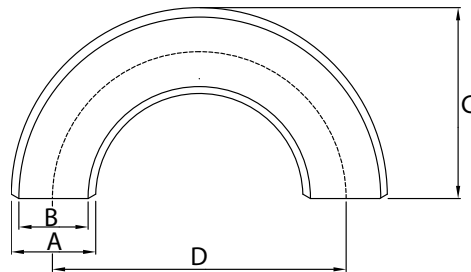
Cap STD ASTM A234 WPB ANSI B16.9

CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWC025	25	33.4	26.6	38.1	3.4	0.11
BWC032	32	42.2	35.1	38.1	3.6	0.14
BWC040	40	48.3	40.9	38.1	3.7	0.17
BWC050	50	60.3	52.5	38.1	3.9	0.23
BWC065	65	73.0	62.7	38.1	5.2	0.39
BWC080	80	88.9	77.9	50.8	5.5	0.66
BWC100	100	114.3	102.3	63.5	6.0	1.17
BWC125	125	141.3	128.2	76.2	6.6	1.91
BWC150	150	168.3	154.1	88.9	7.1	2.90
BWC200	200	219.1	202.7	101.6	8.2	5.19
BWC250	250	273.1	254.5	127.0	9.3	9.15
BWC300	300	323.9	304.8	152.4	9.5	13.30
BWC350	350	355.6	336.6	165.1	9.5	15.90
BWC400	400	406.4	387.4	177.8	9.5	20.00
BWC450	450	457.2	438.2	203.2	9.5	25.60
BWC500	500	508.0	489.0	228.6	9.5	34.4
BWC600	600	609.6	590.6	267.0	9.5	45.9



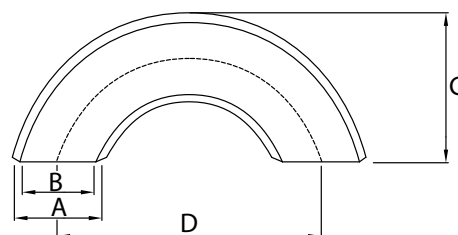
## Butt Weld Long Radius Elbow 180 Degree STD

Long Radius Elbow STD ASTM A234 WPB ANSI B16.9							
CODE	NB	A	B	C	D	WALL THICKNESS	APPROX KG/PC
BWE180025	25	33.4	26.6	55.4	76.2	3.4	0.30
BWE180032	32	42.2	35.1	69.9	95.3	3.6	0.51
BWE180040	40	48.3	40.9	82.6	114.3	3.7	0.73
BWE180050	50	60.3	52.5	106.2	152.4	3.9	1.30
BWE180065	65	73.0	62.7	131.6	190.5	5.2	2.58
BWE180080	80	88.9	77.9	158.8	228.6	5.5	4.04
BWE180100	100	114.3	102.3	209.6	304.8	6.0	7.68
BWE180125	125	141.3	128.2	261.9	381.0	6.6	13.00
BWE180150	150	168.3	154.1	312.7	457.2	7.1	20.20
BWE180200	200	219.1	202.7	414.3	609.6	8.2	40.60



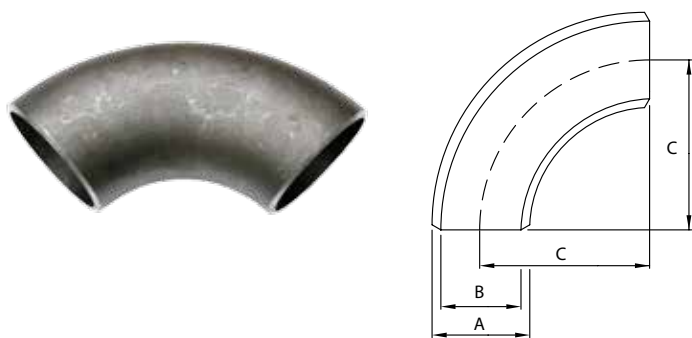
## Butt Weld Short Radius Elbow 180 Degree STD

Short Radius Elbow 180 Degree STD ASTM A234 WPB ANSI B16.9							
CODE	NB	A	B	C	D	WALL THICKNESS	APPROX KG/PC
BWES180025	25	33.4	26.6	41.1	50.8	3.4	0.2
BWES180032	32	42.2	35.1	52.3	63.5	3.6	0.34
BWES180040	40	48.3	40.9	61.7	76.2	3.7	0.48
BWES180050	50	60.3	52.5	80.8	101.6	3.9	0.87
BWES180065	65	73.0	62.7	99.8	127.0	5.2	1.72
BWES180080	80	88.9	77.9	120.7	152.4	5.5	2.70
BWES180100	100	114.3	102.3	158.8	203.2	6.0	5.12
BWES180150	150	168.2	154.1	236.5	304.8	7.1	13.5



## Butt Weld Long Radius Elbow 90 Degree XS

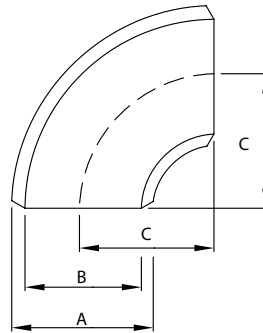
Long Radius Elbow 90 Degree XS ASTM A234 WPB ANSI B16.9						
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWEX90015	15	21.3	13.8	38.1	3.7	0.10
BWEX90020	20	26.7	18.9	28.4	3.9	0.11
BWEX90025	25	33.4	24.3	38.1	4.6	0.21
BWEX90032	32	42.2	32.5	47.8	4.9	0.39
BWEX90040	40	48.3	38.1	57.2	5.1	0.50
BWEX90050	50	60.3	49.2	76.2	5.5	1.00
BWEX90065	65	73.0	59.0	95.2	7.0	1.82
BWEX90080	80	88.9	73.7	114.3	7.6	2.86
BWEX90100	100	114.3	97.2	152.4	8.6	5.70
BWEX90125	125	139.8	126.6	190.5	6.6	6.48
BWEX90150	150	168.3	146.4	228.6	11.0	16.30
BWEX90200	200	219.1	193.7	304.8	12.7	31.30
BWEX90250	250	273.1	247.7	381.0	12.7	49.40
BWEX90300	300	323.9	298.5	457.2	12.7	71.20



## Butt Weld Short Radius Elbow 90 Degree XS

Short Radius Elbow 90 Degree XS ASTM A234 WPB ANSI B16.28

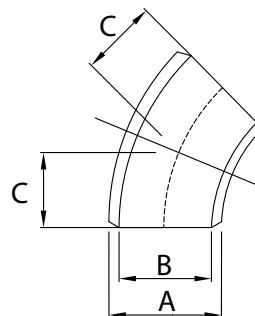
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWESX032	32	42.7	32.9	31.8	4.9	0.34
BWESX040	40	48.3	38.1	38.1	5.1	0.35
BWESX050	50	60.3	49.2	50.8	5.5	0.65
BWESX065	65	73.0	59.0	63.5	7.0	1.45
BWESX080	80	88.9	73.7	76.2	7.6	1.79
BWESX100	100	114.3	97.2	101.6	8.6	3.72
BWESX150	150	168.3	146.4	152.4	11.0	10.35
BWESX200	200	219.1	190.9	203.2	12.7	23.60



## Butt Weld Long Radius Elbow 45 Degree XS

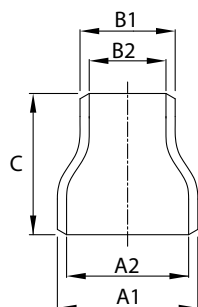
Long Radius Elbow 45 Degree XS ASTM A234 WPB ANSI B16.9

CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWE45X015	15	21.7	14.3	15.8	3.7	0.49
BWE45X020	20	26.7	18.9	11.2	3.9	0.06
BWE45X025	25	33.4	24.3	22.4	4.6	0.14
BWE45X032	32	42.2	32.5	25.4	4.9	0.26
BWE45X040	40	48.3	38.1	28.4	5.1	0.29
BWE45X050	50	60.3	49.2	35.1	5.5	0.57
BWE45X065	65	73.0	59.0	44.4	7.0	1.06
BWE45X080	80	88.9	73.7	50.8	7.6	1.43
BWE45X100	100	114.3	97.2	63.5	8.6	2.52
BWE45X150	150	168.3	146.4	95.2	11.0	8.30
BWE45X200	200	219.1	190.9	126.2	12.7	15.30



## Butt Weld Concentric Reducer XS

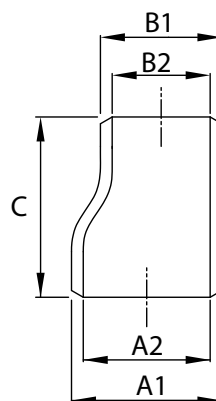
Concentric Reducer XS ASTM A234 WPB ANSI B16.9								
CODE	NB	LARGER DIAMETER		SMALLER DIAMETER		END TO END	WALL THICKNESS	APPROX KG/PC
		A1	A2	B1	B2	C		
BWRCX020015	20 x 15	26.7	18.9	21.3	12.2	38.1	3.9	0.08
BWRCX025015	25 x 15	33.4	24.3	21.3	12.2	50.8	4.6	0.18
BWRCX025020	25 x 20	33.4	24.3	26.7	17.6	50.8	4.6	0.18
BWRCX032015	32 x 15	42.2	32.5	21.3	12.2	50.8	4.9	0.18
BWRCX032020	32 x 20	42.2	32.5	26.7	17.0	50.8	4.9	0.23
BWRCX032025	32 x 25	42.2	32.5	33.4	23.7	50.8	4.9	0.23
BWRCX040015	40 x 15	48.3	38.1	21.3	12.2	63.5	5.1	0.27
BWRCX040020	40 x 20	48.3	38.1	26.7	16.5	63.5	5.1	0.32
BWRCX040025	40 x 25	48.3	38.1	33.4	23.2	63.5	5.1	0.32
BWRCX040032	40 x 32	48.3	38.1	42.2	32.0	63.5	5.1	0.32
BWRCX050025	50 x 25	60.3	49.2	33.4	22.3	76.2	5.5	0.54
BWRCX050032	50 x 32	60.3	49.2	42.2	31.1	76.2	5.5	0.54
BWRCX050040	50 x 40	60.3	49.2	48.3	37.2	76.2	5.5	0.54
BWRCX065025	65 x 25	73.0	59.0	33.4	22.3	88.9	7.0	0.76
BWRCX065050	65 x 50	73.0	59.0	60.3	46.3	88.9	7.0	0.91
BWRCX080040	80 x 40	88.9	73.7	48.3	33.1	88.9	7.6	1.27
BWRCX080050	80 x 50	88.9	73.7	60.3	45.1	88.9	7.6	1.27
BWRCX080065	80 x 65	88.9	73.7	73.0	57.8	88.9	7.6	1.27
BWRCX100050	100 x 50	114.3	97.2	60.3	43.2	101.6	8.6	2.18
BWRCX100065	100 x 65	114.3	97.2	73.0	55.9	101.6	8.6	2.18
BWRCX100080	100 x 80	114.3	97.2	88.9	71.8	101.6	8.6	2.18
BWRCX150080	150 x 80	168.3	146.4	88.9	67.0	139.7	11.0	5.40
BWRCX150100	150 x 100	168.3	146.4	114.3	92.4	139.7	11.0	5.40
BWRCX200100	200 x 100	219.1	193.7	114.3	97.2	152.4	12.7	7.68
BWRCX200150	200 x 150	219.1	193.7	168.3	146.3	152.4	12.7	8.63
BWRCX250150	250 x 150	273.1	247.7	168.3	146.3	177.8	12.7	11.80
BWRCX250200	250 x 200	273.1	247.7	219.1	193.7	177.8	12.7	12.90



## Butt Weld Eccentric Reducer XS

Eccentric Reducer XS ASTM A234 WPB ANSI B16.9

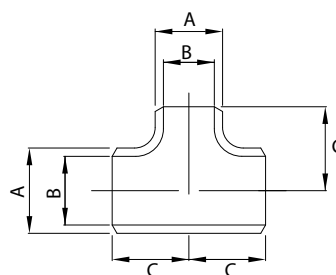
CODE	NB	LARGER DIAMETER		SMALLER DIAMETER		END TO END	WALL THICKNESS	APPROX KG/PC
		A1	A2	B1	B2	C		
BWREX050040	50 x 40	60.3	49.3	48.3	38.1	76.2	5.5	0.51
BWREX065050	65 x 50	73.0	59.0	60.3	49.3	88.9	7.0	0.92
BWREX080065	80 x 65	88.9	73.7	73.0	59.0	88.9	7.6	1.23
BWREX100065	100 x 65	114.3	97.2	73.0	59.0	101.6	8.6	1.86
BWREX150080	150 x 80	168.3	146.3	88.9	73.7	139.7	11.0	4.56



## Butt Weld Equal Tee XS

Equal Tee XS ASTM A234 WPB ANSI B16.9

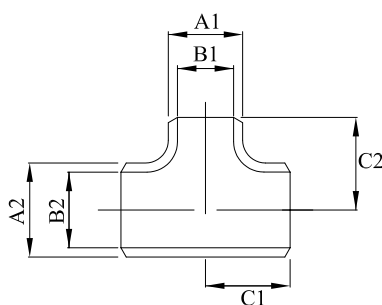
CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWTX015	15	21.3	13.8	38.1	3.7	0.2
BWTX020	20	26.7	18.9	28.4	3.9	0.3
BWTX025	25	33.4	24.3	38.1	4.6	0.4
BWTX032	32	42.2	32.5	47.8	4.9	0.8
BWTX040	40	48.3	38.1	57.2	5.1	1.1
BWTX050	50	60.3	49.2	63.5	5.5	1.7
BWTX065	65	73.0	59.0	76.2	7.0	3.0
BWTX080	80	88.9	73.7	85.9	7.6	4.3
BWTX100	100	114.3	97.2	104.6	8.6	7.3
BWTX150	150	168.3	146.4	142.7	11.0	19.0
BWTX200	200	219.1	193.7	177.8	12.7	30.3



## Butt Weld Reducing Tee XS

Reducing Tee XS ASTM A234 WPB ANSI B16.9

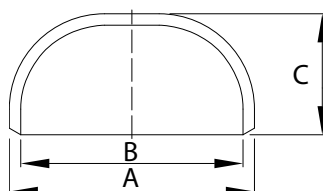
CODE	NB	LARGER DIAMETER		SMALLER DIAMETER		END TO END		WALL THICKNESS	APPROX KG/PC
		A1	A2	B1	B2	C1	C2		
BWTRX050025	50 x 25	60.3	49.3	33.4	24.3	63.5	50.8	5.5	1.02
BWTRX080050	80 x 50	88.9	73.7	60.3	49.3	85.6	76.2	7.6	2.85
BWTRX100050	100 x 50	114.3	97.2	60.3	49.3	104.6	88.9	8.6	4.94
BWTRX100080	100 x 80	114.3	97.2	88.9	73.7	104.6	98.3	8.6	5.33
BWTRX150100	150 x 100	168.3	146.3	114.3	97.2	142.7	130.0	11.0	13.50



## Butt Weld Cap XS

Cap XS ASTM A234 WPB ANSI B16.9

CODE	NB	A	B	C	WALL THICKNESS	APPROX KG/PC
BWCX050	50	49.2	60.3	38.1	5.5	0.33
BWCX065	65	59.0	73.0	38.1	7.0	0.49
BWCX080	80	73.7	88.9	50.8	7.6	0.90
BWCX100	100	97.2	114.3	63.5	8.6	1.48
BWCX125	125	141.3	122.3	76.2	9.5	2.78
BWCX150	150	146.4	168.3	88.9	11.0	4.47
BWCX200	200	219.1	193.6	101.6	12.7	8.05
BWCX250	250	273.1	355.6	127.0	12.7	12.50
BWCX300	300	323.9	298.5	152.4	12.7	17.70





# Specifications

**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.

H J Asmuss & Co Ltd can also offer a wide range of products on request.

Dimension Tolerance for ANSI B16.5					
THREADED, SOCKET WELDING, SLIP-ON, LAP JOINT AND BLIND			WELD NECK		
OUTSIDE DIAMETER OF HUB	≤ 24	± 1/16	OUTSIDE DIAMETER	≤ 24	± 1/16
INSIDE DIAMETER	Threaded	Within limits of boring gauge	INSIDE DIAMETER	≤ 10	± 1/32
	Socket Weld, Slip on	≤ 10, + 1/32, -0 ≥ 12 + 1/16, -0		12 through 18	± 1/16
OUTSIDE DIAMETER OF HUB	≤ 12	+ 3/32 - 1/16		≥ 20	+1/8, - 1/16
	≥ 14	± 1/8	DIAMETER OF CONTACT FACE	1/16 Raised Face	± 1/32
DIAMETER OF CONTACT FACE	1/16 Raised Face	± 1/32		1/4 Raised face tongue & Groove male, female	± 1/64
	1/4 Raised face tongue & Groove male, female	± 1/64	DIAMETER OF HUB AT BASE	≤ 24	± 1/16
DRILLING	Bolt Circle	± 1/16		> 24	± 1/8
	Bolt Hole Spacing	± 1/32	DIAMETER OF HUB AT POINT OF WELDING	NPS ≤ 5	+ 3/32 -1/32
	Concentricity of bolt circle	NPS ≤ 2 1/2 1/32 max NPS ≥ 3 1/16 max		NPS ≥ 6	+ 5/32 -1/32
THICKNESS	≤ 18	+ 1/8, -0	DRILLING	Bolt Circle	± 1/16
	≥ 20	+3/16, -0		Bolt Hole Spacing	± 1/32
LENGTH THROUGH THE HUB	≤ 18	+1/8, -1/32		Concentricity of bolt circle	NPS ≤ 2 1/2 1/32 max NPS ≥ 3 1/16 max
	≥ 20	+3/16, -1/16	THICKNESS	≤ 18	+1/8 -0
				≥ 20	+3/16 -0
			LENGTH THROUGH THE HUB	NPS ≤ 4	± 1/16
				5 ≤ NPS ≤ 10	+1/16 -1/8
				NPS ≥ 12	+ 1/8 -3/16

## Temperature-Pressure Ratings

Temperature-Pressure Ratings						
ASTM A105						
TEMPERATURE/PRESSURE RATINGS						
CARBON STEEL PIPE FLANGES TO ANSI B16.5 (BS.1560)						
FORGINGS TO ASTM A105 – Not recommended for prolonged use above 427°C						
FORGINGS TO ASTM A350-LF2 – Not to be used above 343°C						
FORGINGS TO ASTM A105 – Not recommended for prolonged use above 427°C						
FORGINGS TO ASTM A350-LF2 – Not to be used above 423°C						
TEMPERATURE IN °C	MAXIMUM WORKING PRESSURE IN KPA BY PN (PRESSURE NUMBERS)					
	PN20	PN50	PN100	PN150	PN250	PN420
	CLASS 150	CLASS 300	CLASS 600	CLASS 900	CLASS 1500	CLASS 2500
-29 to 38	1960	5110	10210	15320	25530	42550
50	1920	5010	10020	15020	25040	41730
100	1770	4640	9280	13910	23190	38650
150	1580	4520	9050	13570	22610	37690
200	1400	4380	8760	13150	21910	36520
250	1210	4170	8340	12520	20860	34770
300	1020	3870	7750	11620	19370	32280
350	840	3700	7390	11090	18480	30800
375	740	3650	7290	10940	18230	30390
400	650	3450	6900	10350	17250	28750
425	560	2880	5750	8630	14380	23960
450	470	2000	4010	6010	10020	16690
475	370	1350	2710	4060	6770	11290
500	280	880	1760	2640	4400	7330
525	190	520	1040	1550	2590	4320
540	130	330	650	980	1630	2720

Flanges above DN 600 are not included in ANSI B16.5 standard and the class designations in these large diameters do not imply specific temperature/pressure ratings.

Chemical Properties				
CARBON	MANGANESE	PHOSPHORUS	SULPHUR	SILICON
.35% max	.60 – 1.05%	.040% max	-.050% max	0.35%

NOTE 1: For each reduction of 0.01% below the specified carbon maximum (0.35%), an increase of 0.06% manganese above the specified maximum (1.05%) will be permitted up to a maximum of 1.35%.

Mechanical Properties				
TENSILE STRENGTH MIN, MPA	YIELD STRENGTH MIN, MPA	ELONGATION IN 50MM, MIN%	REDUCTION OF AREA, MIN %	HARDNESS, HB MAX
485	250	22	30	187

\*\* Determined by either the 0.2% off-set method or the 0.5% extension-under-load method.

Temperature-Pressure Ratings For Carbon Steel Plate Flanges

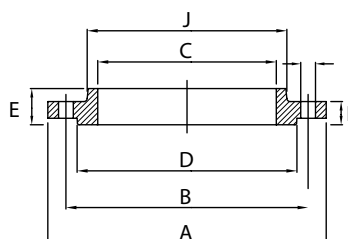
CODE	PRESSURE (KPA)												MAXIMUM HYDROSTATIC TEST PRESSURE KPA
	TEMPERATURE (°C)												
	-18	-50	250	275	300	325	350	375	400	425	450	475	
	TO 120	TO 232											
D		700	650	600	570	550	500	450	400	350			1050
C	1200												1800
E		1400	1300	1200	1100	1000	950	900	800	700			2100
F		2100	2000	1800	1700	1600	1400	1300	1200	1100			3150
H		3500	3300	3100	2900	2600	2400	2000	2000	1700	1300	900	5250
J		4800	4600	4300	4000	3700	3400	3100	2700	2400	1900	1300	7200
K		6200	5900	5500	5100	4700	4300	3900	3500	3100	2400	1600	9300
R		8300	7900	7400	6800	6300	5800	5200	4700	4200	3200	2200	12450
S		12400	11800	11100	10300	9500	8700	7900	7100	6300	4800	3300	18600
T		19300	18400	17200	16000	14700	13500	12200	11000	9800	7500	5100	28950

## ANSI CL150 RF Slip On Flange (STD WT)

ANSI CL150 RF Slip On Flange B16.5 A105N

CODE	PIPE		FLANGE				HUB	RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	C	F	E	J	D	NUMBER HOLES	H	B	
FL150SO015S	15	21.3	88.9	22.4	11.2	15.7	30.2	35.1	4	15.7	60.5	0.39
FL150SO020S	20	26.7	98.6	27.7	12.7	15.7	38.1	42.9	4	15.7	69.6	0.56
FL150SO025S	25	33.4	108.0	34.5	14.2	17.5	49.3	50.8	4	15.7	79.2	0.78
FL150SO032S	32	42.2	117.3	43.2	15.7	20.6	58.7	63.5	4	15.7	88.9	1.03
FL150SO040S	40	48.3	127.0	49.5	17.5	22.4	65.0	73.2	4	15.7	98.6	1.32
FL150SO050S	50	60.3	152.4	62.0	19.1	25.4	77.7	91.9	4	19.1	120.7	2.06
FL150SO065S	65	73.0	177.8	74.7	22.4	28.4	90.4	104.6	4	19.1	139.7	3.28
FL150SO080S	80	88.9	190.5	90.7	23.9	30.2	108.0	127.0	4	19.1	152.4	3.85
FL150SO100S	100	114.3	228.6	116.1	23.9	33.3	134.9	157.2	8	19.1	190.5	5.30
FL150SO125S	125	141.3	254.0	143.8	23.9	36.6	163.6	185.7	8	22.4	215.9	6.07
FL150SO150S	150	168.3	279.4	170.7	25.4	39.6	192.0	215.9	8	22.4	241.3	7.45
FL150SO200S	200	219.1	342.9	221.5	28.4	44.5	246.1	269.7	8	22.4	295.8	12.10
FL150SO250S	250	273.0	406.4	276.4	30.2	49.3	304.8	323.9	12	25.4	362	16.50
FL150SO300S	300	323.8	482.6	327.2	31.8	55.6	365.3	381.0	12	25.4	431.8	26.20
FL150SO350S	350	355.6	533.4	359.2	35.1	57.2	400.1	412.8	12	28.4	476.3	34.60
FL150SO400S	400	406.4	596.9	410.5	36.6	63.5	457.2	469.9	16	28.4	539.8	44.80
FL150SO450S	450	457.2	635.0	461.8	39.6	68.3	505.0	533.4	16	31.8	577.9	48.90
FL150SO500S	500	508.0	698.5	513.1	42.9	73.2	558.8	584.2	20	31.8	635	61.90
FL150SO600S	600	609.6	812.8	616.0	47.8	82.6	663.4	692.2	20	35.1	749.3	86.90

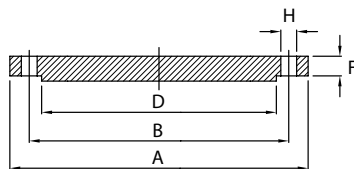
H = THREAD LENGTH



# ANSI CL150 Blind Flange

ANSI CL150 Blind Flange B16.5 A105N

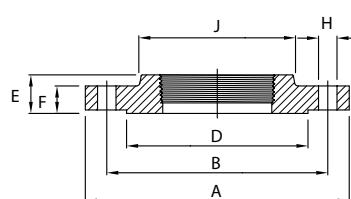
CODE	PIPE		FLANGE		RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	F	D	NUMBER HOLES	H	B	
FL150BL015S	15	21.3	88.9	11.2	35.1	4	15.7	60.5	.42
FL150BL020S	20	26.7	98.6	12.7	42.9	4	15.7	69.9	.61
FL150BL025S	25	33.4	108.0	14.2	50.8	4	15.7	79.2	0.86
FL150BL032S	32	42.2	117.3	15.7	63.5	4	15.7	88.9	1.17
FL150BL040S	40	48.3	127.0	17.5	73.2	4	15.7	98.6	1.53
FL150BL050S	50	60.3	152.4	19.1	91.9	4	19.1	120.7	2.42
FL150BL065S	65	73.0	177.8	22.4	104.6	4	19.1	139.7	3.94
FL150BL080S	80	88.9	190.5	23.9	127.0	4	19.1	152.4	4.93
FL150BL100S	100	114.3	228.6	23.9	157.2	8	19.1	190.5	7.00
FL150BL125S	125	141.3	254.0	23.9	185.7	8	22.4	215.9	8.63
FL150BL150S	150	168.3	279.4	25.4	215.9	8	22.4	241.3	11.30
FL150BL200S	200	219.1	342.9	28.4	269.7	8	22.4	298.5	19.60
FL150BL250S	250	273.0	406.4	30.2	323.9	12	25.4	362.0	28.80
FL150BL300S	300	323.8	482.6	31.8	381.0	12	25.4	431.8	43.20
FL150BL350S	350	355.6	533.4	35.1	412.8	12	28.4	476.3	58.10
FL150BL400S	400	406.4	596.9	36.6	469.9	16	28.4	539.8	76.00
FL150BL450S	450	457.2	635.0	39.6	533.4	16	31.8	577.9	93.70
FL150BL500S	500	508.0	698.5	42.9	584.2	20	31.8	635.0	122.00
FL150BL600S	600	609.6	812.8	47.8	692.2	20	35.1	749.3	185.00



## ANSI CL150 RF BSP Screwed Flange

ANSI CL150 RF BSP Screwed Flange B16.5 A105N

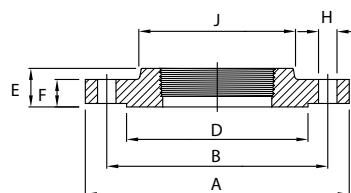
CODE	PIPE		FLANGE			HUB	RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	F	E	J	D	NUMBER HOLES	H	B	
FLSC150015S	15	21.3	88.9	11.2	15.7	30.2	35.1	4	15.7	60.5	0.39
FLSC150020S	20	26.7	98.6	12.7	15.7	38.1	42.9	4	15.7	69.9	0.56
FLSC150025S	25	33.4	108.0	14.2	17.5	49.3	50.8	4	15.7	79.2	0.78
FLSC150032S	32	42.2	117.3	15.7	20.6	58.7	63.5	4	15.7	88.9	1.03
FLSC150040S	40	48.3	127.0	17.5	22.4	65.0	73.2	4	15.7	98.6	1.32
FLSC150050S	50	60.3	152.4	19.1	25.4	77.7	91.9	4	19.1	120.7	2.06



## ANSI CL150 RF BSP Screwed Flange Galvanized

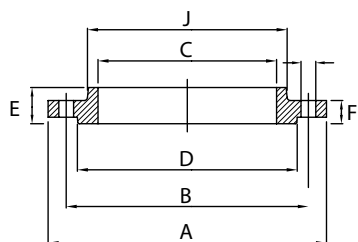
ANSI CL150 RF BSP Screwed Flange Galvanized B16.5 A105N

CODE	PIPE		FLANGE			HUB	RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	F	E	J	D	NUMBER HOLES	H	B	
FLSC150G015S	15	21.3	88.9	11.2	15.7	30.2	35.1	4	15.7	60.5	0.39
FLSC150G020S	20	26.7	98.6	12.7	15.7	38.1	42.9	4	15.7	69.9	0.56
FLSC150G025S	25	33.4	108.0	14.2	17.5	49.3	50.8	4	15.7	79.2	0.78
FLSC150G032S	32	42.2	117.3	15.7	20.6	58.7	63.5	4	15.7	88.9	1.03
FLSC150G040S	40	48.3	127.0	17.5	22.4	65.0	73.2	4	15.7	98.6	1.32
FLSC150G050S	50	60.3	152.4	19.1	25.4	77.7	91.9	4	19.1	120.7	2.06



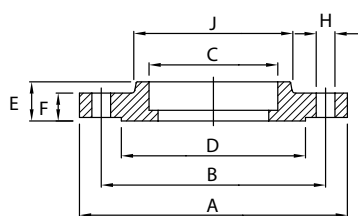
## ANSI CL150 RF Socket Weld Flange (STD WT)

ANSI CL150 RF Socket Weld Flange B16.5 A105N														
CODE	PIPE		FLANGE				F	E	J	D	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	C							NUMBER HOLES	H	B	
FL150SW015S	15	21.3	88.9	22.4	15.7	9.6	11.2	15.7	30.2	35.1	4	15.7	60.5	0.42
FL150SW020S	20	26.7	98.6	27.7	20.8	11.1	12.7	15.7	38.1	42.9	4	15.7	69.9	0.59
FL150SW025S	25	33.4	108.0	34.5	26.7	12.7	14.2	17.5	49.3	50.8	4	15.7	79.2	0.81
FL150SW032S	32	42.2	117.3	43.2	35.1	14.2	15.7	20.6	58.7	63.5	4	15.7	88.9	1.07
FL150SW040S	40	48.3	127.0	49.5	40.9	15.7	17.5	22.4	65.0	73.1	4	15.7	98.6	1.36
FL150SW050S	50	60.6	152.4	62.0	52.6	17.5	19.1	25.4	77.7	91.9	4	19.1	120.7	2.10



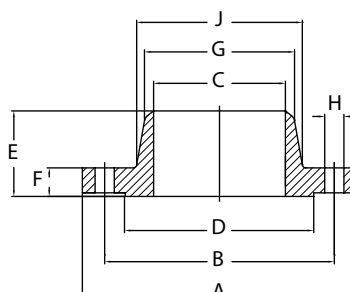
## ANSI CL150 RF Socket Weld Flange (XS WT)

ANSI CL150 RF Socket Weld Flange B16.5 A105N														
CODE	PIPE		FLANGE				F	E	J	D	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	C							NUMBER HOLES	H	B	
FL150SWX020S	20	26.7	98.6	27.7	20.8	11.1	12.7	15.7	38.1	42.9	4	15.7	69.9	0.59
FL150SWX025S	25	33.4	108.0	34.5	26.7	12.7	14.2	17.5	49.3	50.8	4	15.7	79.2	0.81
FL150SWX032S	32	42.2	117.3	43.2	35.1	14.2	15.7	20.6	58.7	63.5	4	15.7	88.9	1.07
FL150SWX040S	40	48.3	127.0	49.5	40.9	15.7	17.5	22.4	65.0	73.1	4	15.7	98.6	1.36
FL150SWX050S	50	60.6	152.4	62.0	52.6	17.5	19.1	25.4	77.7	91.9	4	19.1	120.7	2.10



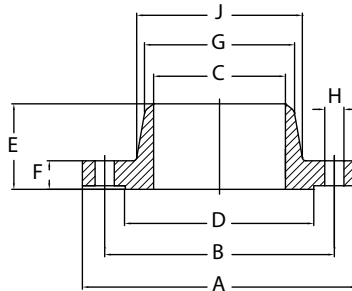
## ANSI CL150 RF Weld Neck Flange (STD WT)

ANSI CL150 RF Weld Neck Flange B16.5 A105N													
CODE	PIPE		FLANGE				HUB		RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	C	F	E	G	J	D	NUMBER HOLES	H	B	
FL150WN015S	15	21.3	88.9	To be specified by purchaser	11.2	47.8	21.3	30.2	35.1	4	15.7	60.5	0.48
FL150WN020SS	20	26.7	98.6		12.7	52.3	26.7	38.1	42.9	4	15.7	69.9	0.71
FL150WN025S	25	33.4	108.0		14.2	55.6	33.5	49.3	50.8	4	15.7	79.2	1.01
FL150WN032S	32	42.4	117.3		15.7	57.2	42.2	58.7	63.5	4	15.7	88.9	1.33
FL150WN040S	40	48.3	127.0		17.5	62.0	48.3	65.0	73.2	4	15.7	98.6	1.72
FL150WN050S	50	60.3	152.4		19.1	63.5	60.5	77.7	91.9	4	19.1	120.7	2.58
FL150WN065S	65	73.0	177.8		22.4	69.9	73.2	90.4	104.6	4	19.1	139.7	4.11
FL150WN080S	80	88.9	190.5		23.9	69.9	88.9	108.0	127.0	4	19.1	152.4	4.92
FL150WN100S	100	114.3	228.6		23.9	76.2	114.3	134.9	157.2	8	19.1	190.5	6.84
FL150WN125S	125	141.3	254.0		23.9	88.9	141.2	163.6	185.7	8	22.4	215.9	8.56
FL150WN150S	150	168.3	279.4		25.4	88.9	168.4	192.0	215.9	8	22.4	241.3	10.6
FL150WN200S	200	219.1	342.9		28.4	101.6	219.2	246.1	269.7	8	22.4	298.5	17.6
FL150WN250S	250	273.0	406.4		30.2	101.6	273.1	304.8	323.9	12	25.4	362.0	24.00
FL150WN300S	300	323.8	482.6		31.8	114.3	323.9	365.3	381.0	12	25.4	431.8	36.50
FL150WN350S	350	355.6	533.4		35.1	127.0	355.6	400.1	412.8	12	28.4	476.3	48.40
FL150WN400S	400	406.4	596.9		36.6	127.0	406.4	457.2	469.9	16	28.4	539.8	60.60
FL150WN450S	450	457.2	635.0		39.6	139.7	457.2	505.0	533.4	16	31.8	577.9	68.30
FL150WN500S	500	508.0	698.5		42.9	144.5	508.0	558.8	584.2	20	31.8	635.0	84.50
FL150WN600S	600	609.6	812.8		47.8	152.4	609.6	663.4	692.2	20	35.1	749.3	115.00



# ANSI CL150 RF Weld Neck Flange (XS WT)

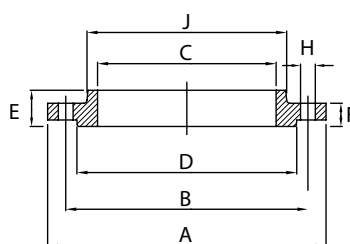
ANSI CL150 RF Weld Neck Flange B16.5 A105N													
CODE	PIPE		FLANGE				HUB		RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	C	F	E	G	J	D	NUMBER HOLES	H	B	
FL150WNX025S	25	33.4	108.0	To be specified by purchaser	14.2	55.6	33.5	49.3	50.8	4	15.7	79.2	1.01
FL150WNX032S	32	42.4	117.3		15.7	57.2	42.2	58.7	63.5	4	15.7	88.9	1.33
FL150WNX040S	40	48.3	127.0		17.5	62.0	48.3	65.0	73.2	4	15.7	98.6	1.72
FL150WNX050S	50	60.3	152.4		19.1	63.5	60.5	77.7	91.9	4	19.1	120.7	2.58
FL150WNX065S	65	73.0	177.8		22.4	69.9	73.2	90.4	104.6	4	19.1	139.7	4.11
FL150WNX080S	80	88.9	190.5		23.9	69.9	88.9	108.0	127.0	4	19.1	152.4	4.92
FL150WNX100S	100	114.3	228.6		23.9	76.2	114.3	134.9	157.2	8	19.1	190.5	6.84
FL150WNX150S	150	168.3	279.4		25.4	88.9	168.4	192.0	215.9	8	22.4	241.3	10.6
FL150WNX200S	200	219.1	342.9		28.4	101.6	219.2	246.1	269.7	8	22.4	298.5	17.6
FL150WNX250S	250	273.0	406.4		30.2	101.6	273.1	304.8	323.9	12	25.4	362.0	24.00
FL150WNX300S	300	323.8	482.6		31.8	114.3	323.9	365.3	381.0	12	25.4	431.8	36.50





## ANSI CL300 RF Slip On Flange (STD WT)

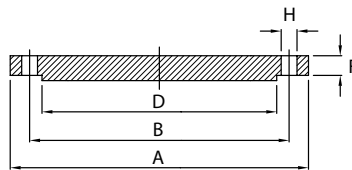
ANSI CL300 RF Slip On Flange B16.5 A105N												
CODE	PIPE		FLANGE				HUB	RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	C	F	E	J	D	NUMBER HOLES	H	B	
FL300SO015S	15	21.3	95.2	22.3	14.2	22.3	38.1	35.0	4	15.7	66.5	0.64
FL300SO020S	20	26.7	117.3	27.7	15.7	25.4	47.7	42.9	4	19.0	82.5	1.12
FL300SO025S	25	33.4	123.9	34.5	17.5	26.9	53.8	50.8	4	19.0	88.9	1.36
FL300SO032S	32	42.2	133.3	43.2	19.0	26.9	63.5	63.5	4	19.0	98.5	1.68
FL300SO040S	40	48.3	155.4	49.5	20.6	30.2	69.8	73.1	4	22.3	114.3	2.49
FL300SO050S	50	60.3	165.1	62.0	22.3	33.2	84.0	91.9	8	19.0	127.0	2.87
FL300SO065S	65	73.0	190.5	74.7	25.4	38.1	100.0	104.6	8	22.3	149.3	4.32
FL300SO080S	80	88.9	209.5	90.7	28.4	42.9	117.3	127.0	8	22.3	168.1	5.85
FL300SO100S	100	114.3	254.0	116.1	31.7	47.7	146.0	157.2	8	22.3	200.1	9.61
FL300SO125S	125	141.3	279.4	143.8	35.0	50.8	177.8	185.6	8	22.3	234.9	12.30
FL300SO150S	150	168.3	317.5	170.7	36.5	52.3	206.2	215.9	12	22.3	269.7	15.60
FL300SO200S	200	219.1	381.0	221.5	41.1	61.9	260.3	269.7	12	25.4	330.2	24.20
FL300SO250S	250	273.0	444.5	276.3	47.7	66.5	320.5	323.8	16	28.4	387.3	34.10
FL300SO300S	300	323.8	520.7	327.1	50.8	73.1	374.6	381.0	16	31.7	450.8	49.80



## ANSI CL300 Blind Flange

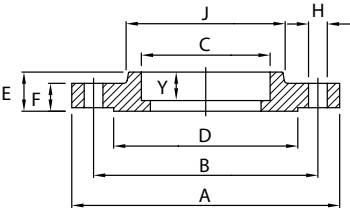
ANSI CL300 Blind Flange B16.5 A105N

CODE	PIPE		FLANGE		RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	F	D	NUMBER HOLES	H	B	
FL300BL015S	15	21.3	95.2	14.2	35.0	4	15.7	66.5	64.0
FL300BL020S	20	26.7	117.3	15.7	42.9	4	19.0	82.5	1.1
FL300BL025S	25	33.4	123.9	17.5	50.8	4	19.0	88.9	1.4
FL300BL032S	32	42.2	133.3	19.0	63.5	4	19.0	98.5	1.8
FL300BL040S	40	48.3	155.4	20.6	73.1	4	22.3	114.3	2.7
FL300BL050S	50	60.3	165.1	22.3	91.9	8	19.0	127.0	3.8
FL300BL065S	65	73.0	190.5	25.4	104.6	8	22.3	149.3	4.9
FL300BL080S	80	88.9	209.5	28.4	127.0	8	22.3	168.1	6.8
FL300BL100S	100	114.3	254.0	31.7	157.2	8	22.3	200.1	11.5
FL300BL125S	125	141.3	279.4	35.0	185.6	8	22.3	234.9	15.6
FL300BL150S	150	168.3	317.5	36.5	215.9	12	22.3	269.7	20.9
FL300BL200S	200	219.1	381.0	41.1	269.7	12	25.4	330.2	34.3
FL300BL250S	250	273.0	444.5	47.7	323.8	16	28.4	387.3	53.3
FL300BL300S	300	323.8	520.7	50.8	381.0	16	31.7	450.8	78.8
FL300BL350S	350	355.6	584.2	53.8	412.7	20	31.7	514.3	105.0



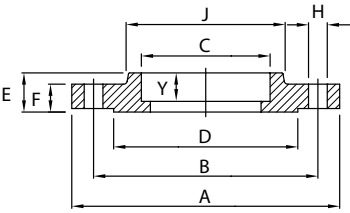
# ANSI CL300 RF Socket Weld Flange (STD WT)

ANSI CL300 RF Socket Weld Flange B16.5 A105N													
CODE	PIPE		FLANGE					HUB	RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	C	Y	F	E	J	D	NUMBER HOLES	H	K	
FL300SW025S	25	33.4	124.0	34.5	12.7	17.5	26.9	53.8	50.8	4	19.1	88.9	1.44
FL300SW032S	32	42.2	133.0	43.2	14.2	19.1	26.9	63.5	63.5	4	19.1	98.6	1.73
FL300SW040S	40	48.3	155.0	49.5	15.7	20.6	30.2	69.9	73.1	4	22.4	114.3	2.62
FL300SW050S	50	60.3	165.0	62.0	17.5	22.4	33.3	84.1	91.9	4	19.1	127.0	2.94



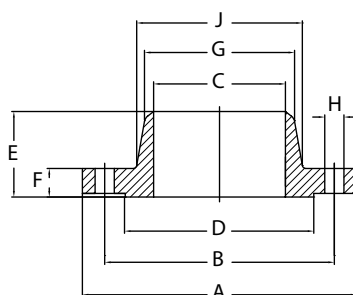
# ANSI CL300 RF Socket Weld Flange (XS WT)

ANSI CL300 RF Socket Weld Flange B16.5 A105N													
CODE	PIPE		FLANGE					HUB	RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	C	Y	F	E	J	D	NUMBER HOLES	H	K	
FL300SWX025S	25	33.4	124.0	34.5	12.7	17.5	26.9	53.8	50.8	4	19.1	88.9	1.44
FL300SWX032S	32	42.2	133.0	43.2	14.2	19.1	26.9	63.5	63.5	4	19.1	98.6	1.73
FL300SWX040S	40	48.3	155.0	49.5	15.7	20.6	30.2	69.9	73.1	4	22.4	114.3	2.62
FL300SWX050S	50	60.3	165.0	62.0	17.5	22.4	33.3	84.1	91.9	4	19.1	127.0	2.94



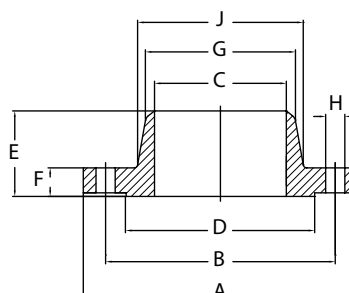
# ANSI CL300 RF Weld Neck Flange (STD WT)

ANSI CL300 RF Weld Neck Flange B16.5 A105N													
CODE	PIPE		FLANGE				HUB		RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A		F	E	G	J	D	NUMBER HOLES	H	B	
FL300WN025S	25	33.4	123.9	To be specified by purchaser	17.5	62.0	33.5	53.8	50.8	4	19.0	88.9	1.52
FL300WN032S	32	42.2	133.3		19.0	65.0	42.2	63.5	63.5	4	19	98.5	2.03
FL300WN040S	40	48.3	155.4		20.6	68.3	48.3	98.8	73.1	4	22.3	114.3	2.89
FL300WN050S	50	60.3	165.1		22.3	69.8	60.4	84.0	91.9	8	19	127	3.40
FL300WN080S	80	88.9	209.5		28.4	79.2	88.9	117.3	127.0	8	22.3	168.1	6.93
FL300WN100S	100	114.3	254.0		31.7	85.8	114.3	146.0	157.2	8	22.3	200.1	11.20
FL300WN150S	150	168.3	317.5		36.5	98.5	168.4	206.2	215.9	12	22.3	269.7	19.10
FL300WN200S	200	219.1	381.0		41.1	111.2	219.2	260.3	269.7	12	25.4	330.2	29.90
FL300WN250S	250	273.0	444.5		47.7	117.3	273.0	320.5	323.8	16	28.4	387.3	42.70
FL300WN300S	300	323.8	520.7		50.8	130.0	323.8	374.6	381.0	16	31.7	450.8	61.80
FL300WN350S	350	355.6	584.2		53.8	142.7	355.6	425.4	412.7	20	31.7	514.3	85.80



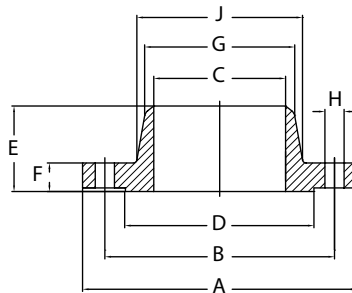
## ANSI CL300 RF Weld Neck Flange (XS WT)

ANSI CL300 RF WELD Neck Flange B16.5 A105N													
CODE	PIPE		FLANGE				HUB		RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	C	F	E	G	J	D	NUMBER HOLES	H	B	
FL300WNX015S	15	21.3	95.2	To be specified by purchaser	14.2	52.3	21.3	38.1	35.0	4	15.7	66.5	0.75
FL300WNX020S	20	26.7	117.3		15.7	57.1	26.7	47.7	42.9	4	19.0	82.5	1.26
FL300WNX025S	25	33.4	123.9		17.5	62.0	33.5	53.8	50.8	4	19.0	88.9	1.52
FL300WNX032S	32	42.2	133.3		19.0	65.0	42.2	63.5	63.5	4	19.0	98.5	2.03
FL300WNX040S	40	48.3	155.4		20.6	68.3	48.3	98.8	73.1	4	22.3	114.3	2.89
FL300WNX050S	50	60.3	165.1		22.3	69.8	60.4	84.0	91.9	8	19.0	127.0	3.40
FL300WNX065S	65	73.0	190.5		25.4	76.2	73.1	100.0	104.6	8	22.3	149.3	5.17
FL300WNX080S	80	88.9	209.5		22.3	69.8	60.4	84.0	91.9	8	19.0	127.0	3.40
FL300WNX100S	100	114.3	254.0		28.4	79.2	88.9	117.3	127.0	8	22.3	168.1	6.93
FL300WNX125S	125	141.3	279.4		35.0	98.5	141.2	177.8	185.6	8	22.3	234.9	15.10
FL300WNX150S	150	168.3	317.5		36.5	98.5	168.4	206.2	215.9	12	22.3	269.7	19.10
FL300WNX200S	200	219.1	381.0		41.1	111.2	219.2	260.3	269.7	12	25.4	330.2	29.90
FL300WNX250S	250	273.0	444.5		47.7	117.3	273.0	320.5	323.8	16	28.4	387.3	42.70
FL300WNX300S	300	323.8	520.7		50.8	130.0	323.8	374.6	381.0	16	31.7	450.8	61.80



# ANSI CL600 RF Weld Neck Flange (XS WT)

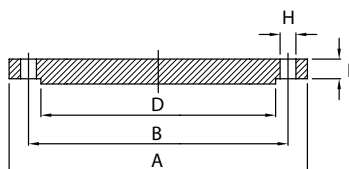
ANSI CL600 RF Weld Neck Flange B16.5 A105N													
CODE	PIPE		FLANGE				HUB		RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	C	F	E	G	J	D	NUMBER HOLES	H	B	
FL600WNX025S	25	33.4	124.0	To be specified by purchaser	17.5	62.0	33.5	53.8	50.8	4	19.1	88.9	1.76
FL600WNX040S	40	48.3	155.4		22.4	69.9	48.3	69.9	73.2	4	22.4	114.3	3.49
FL600WNX050S	50	60.3	165.1		25.4	73.2	60.5	84.1	91.9	8	19.1	127.0	4.36
FL600WNX065S	65	73.0	190.5		28.4	79.2	73.2	100.1	104.6	8	22.4	149.4	6.43
FL600WNX080S	80	88.9	209.6		31.8	82.6	88.9	117.3	127.0	8	22.4	168.1	8.53
FL600WNX100S	100	114.3	273.1		38.1	101.6	114.3	152.4	157.2	8	25.4	215.9	17.4
FL600WNX150S	150	168.3	355.6		47.8	117.3	168.4	222.3	215.9	12	28.4	292.1	34.9
FL600WNX200S	200	219.1	419.1		55.6	133.4	219.2	273.1	269.7	12	31.8	349.3	53.9
FL600WNX250S	250	273.0	508.0		63.5	152.4	273.1	342.9	323.9	16	35.1	431.8	86.5
FL600WNX300S	300	323.8	558.8		66.5	155.4	323.9	400.1	381.0	20	35.1	489.0	103



## ANSI CL600 Blind Flange

ANSI CL600 Blind Flange B16.5 A105N

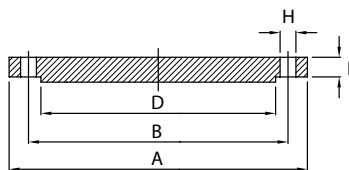
CODE	PIPE		FLANGE		RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	F	D	NUMBER HOLES	H	B	
FL600BL025S	25	33.4	124.0	17.5	50.8	4	19.1	88.9	1.60
FL600BL040S	40	48.3	155.4	22.4	73.2	4	22.4	114.3	3.25
FL600BL050S	50	60.3	165.1	25.4	91.9	8	19.1	127.0	4.15
FL600BL065S	65	73.0	190.5	28.4	104.6	8	22.4	149.4	6.13
FL600BL080S	80	88.9	209.6	31.8	127.0	8	22.4	168.1	8.44
FL600BL100S	100	114.3	273.1	38.1	157.2	8	25.4	215.9	17.30
FL600BL150S	150	168.3	355.6	47.8	215.9	12	28.4	292.1	36.10
FL600BL200S	200	219.1	419.1	55.6	269.7	12	31.8	349.3	58.90



## ANSI CL600 RTJ Blind Flange

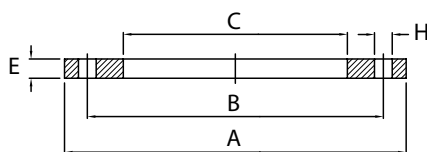
ANSI CL600 RTJ Blind Flange B16.5 A105N

CODE	PIPE		FLANGE		RAISED FACE	DRILLING TEMPLATE			APPROX KG/PC
	NB	OD	A	F	D	NUMBER HOLES	H	B	
FL600BLRTJ050S	50	60.3	165.1	25.4	91.9	8	19.1	127.0	4.15
FL600BLRTJ080S	80	88.9	209.6	31.8	127.0	8	22.4	168.1	8.44
FL600BLRTJ100S	100	114.3	273.1	38.1	157.2	8	25.4	215.9	17.30
FL600BLRTJ150S	150	168.3	355.6	47.8	215.9	12	28.4	292.1	36.10
FL600BLRTJ200S	200	219.1	419.1	55.6	269.7	12	31.8	349.3	58.90
FL600BLRTJ250S	250	273.0	508.0	63.5	323.9	16	35.1	431.8	97.5
FL600BLRTJ300S	300	323.8	558.8	66.5	381.0	20	35.1	489.0	124.0



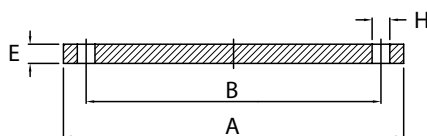
## Slip On Plate Flange (Table D)

Slip On Plate Flange AS2129 (Table D)									
CODE	PIPE		FLANGE				BOLT	E	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	SIZE		
FLTDSO100	100	114.3	215.9	177.8	4	15.9	M16	9.5	3.63
FLTDSO125	125	139.7	254.0	209.5	8	15.9	M16	12.7	5.10
FLTDSO150	150	168.3	279.0	234.9	8	15.9	M16	12.7	6.80
FLTDSO200	200	219.1	336.6	292.1	8	15.9	M16	12.7	11.79
FLTDSO250	250	273.0	406.4	355.6	8	19.0	M20	15.9	22.23
FLTDSO300	300	323.9	457.2	406.4	12	19.0	M20	19.0	33.11



## Blind Flange (Table D)

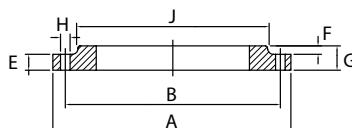
Blind Flange AS2129 (Table D)									
CODE	PIPE		FLANGE				BOLT	E	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	SIZE		
FLTDBL100	100	114.3	215.9	177.8	4	15.9	M16	12	3.18
FLTDBL125	125	139.7	254.0	209.5	8	15.9	M16	13	5.10
FLTDBL150	150	165.1	279.0	234.9	8	15.9	M16	13	6.80
FLTDBL200	200	219.1	336.6	292.1	8	15.9	M16	13	9.98
FLTDBL250	250	273.0	406.4	355.6	8	19.0	M20	16	19.50
FLTDBL300	300	323.9	457.2	406.4	12	19.0	M20	19	28.58





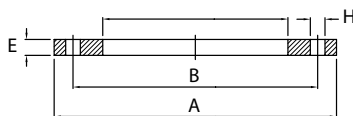
## Slip On Forged Flat Face Flange (Table E)

Slip On Flat Face Flange AS2129 (Table E)											
CODE	PIPE		FLANGE				DIMENSIONS OF BOSS		BOLT	G	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	E	J	SIZE		
FLTESO015	15	21.3	95.3	66.7	4	12.7	9.5	33.3	M12	6.3	0.34
FLTESO020	20	26.9	101.6	73.0	4	12.7	11.1	38.1	M12	6.3	0.45
FLTESO025	25	33.7	114.3	82.6	4	12.7	11.1	47.6	M12	7.1	0.57
FLTESO032	32	42.4	120.7	87.3	4	12.7	11.1	55.6	M12	7.9	0.79
FLTESO040	40	48.3	133.3	98.4	4	12.7	12.7	61.9	M12	8.7	1.02
FLTESO050	50	60.3	152.4	114.3	4	15.9	12.7	74.6	M16	9.5	1.36
FLTESO065	65	76.1	165.1	127.0	4	15.9	15.9	90.5	M16	10.3	1.70
FLTESO080	80	88.9	184.1	146.0	4	15.9	15.9	106.4	M16	11.1	2.27
FLTESO100	100	114.3	215.9	177.8	8	15.9	19.0	133.3	M16	13.7	3.18
FLTESO125	125	139.7	254.0	209.6	8	15.9	19.0	160.3	M16	14.3	4.76
FLTESO150	150	168.3	279.4	235.0	8	19.0	19.0	185.7	M20	17.5	7.48
FLTESO200	200	219.1	336.6	292.1	8	19.0	22.2	241.3	M20	19.0	9.98
FLTESO250	250	273.0	406.4	355.6	12	19.0	27.0	298.5	M20	22.2	15.42
FLTESO300	300	323.9	457.2	406.4	12	22.2	28.6	349.3	M24	25.4	20.41
FLTESO350	350	381.0	527.1	469.9	12	22.2			M24	28.6	
FLTESO400	400	406.4	552.5	495.3	12	22.2			M24	31.8	
FLTESO450	450	450.0	641.4	584.2	16	22.2			M24	34.9	
FLTESO500	500	500.0	704.9	641.4	16	22.2			M24	38.1	
FLTESO600	600	600.0	825.5	755.7	16	28.6			M30	47.6	



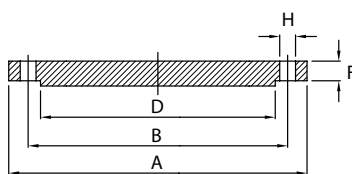
## Slip on Plate Flat Face Flange (Table E)

Slip On Flat Face Flange AS 2129 (Table E)									
CODE	PIPE		FLANGE				BOLT	E	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	SIZE		
FLTESO050P	50	60.3	152.4	114.3	4	15.9	M16	12	1.3
FLTESO065P	65	76.1	165.1	127.0	4	15.9	M16	12	1.5
FLTESO080P	80	88.9	184.1	146.0	4	15.9	M16	12	1.8
FLTESO100P	100	114.3	215.9	177.8	8	15.9	M16	13	2.4
FLTESO125P	125	139.7	254.0	209.6	8	15.9	M16	14	3.6
FLTESO150P	150	168.3	279.4	235.0	8	19.0	M20	17	4.8
FLTESO200P	200	219.1	336.6	292.1	8	19.0	M20	19	7.0
FLTESO250P	250	273.0	406.4	355.6	12	19.0	M20	22	11.1
FLTESO300P	300	323.9	457.2	406.4	12	22.2	M24	25	14.2
FLTESO350P	350	381.0	527.1	469.9	12	22.2	M24	29	24.8
FLTESO400P	400	406.4	552.5	495.3	12	22.2	M24	32	31.5
FLTESO450P	450	450.0	641.4	584.2	16	22.2	M24	35	40.1
FLTESO500P	500	500.0	704.9	641.4	16	22.2	M24	38	52.3
FLTESO600P	600	600.0	825.5	755.7	16	28.6	M30	48	85.4



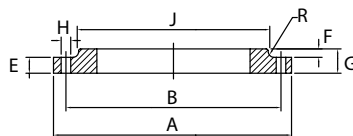
## Blind Flange (Table E)

Blind Flange AS2129 (Table E)									
CODE	PIPE		FLANGE				BOLT	E	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	SIZE		
FLTEBL015	15	21.3	95.3	66.7	4	12.7	M12	14	0.23
FLTEBL020	20	26.9	101.6	73.0	4	12.7	M12	14	0.34
FLTEBL025	25	33.7	114.3	82.6	4	12.7	M12	14	0.57
FLTEBL032	32	42.4	120.7	87.3	4	12.7	M12	14	0.91
FLTEBL040	40	48.3	133.3	98.4	4	12.7	M12	14	1.13
FLTEBL050	50	60.3	152.4	114.3	4	15.9	M16	18	1.36
FLTEBL065	65	76.1	165.1	127.0	4	15.9	M16	18	1.59
FLTEBL080	80	88.9	184.1	146.0	4	15.9	M16	18	2.72
FLTEBL100	100	114.3	215.9	177.8	8	15.9	M16	18	3.63
FLTEBL125	125	139.7	254.0	209.6	8	15.9	M16	18	5.90
FLTEBL150	150	168.3	279.4	235.0	8	19.0	M20	22	8.62
FLTEBL200	200	219.1	336.6	292.1	8	19.0	M20	22	11.79
FLTEBL250	250	273.0	406.4	355.6	12	19.0	M20	22	22.23
FLTEBL300	300	323.9	457.2	406.4	12	22.2	M24	26	33.11
FLTEBL350	350	381.0	527.1	469.9	12	22.2	M24	26	48.54
FLTEBL400	400	406.4	552.5	495.3	12	22.2	M24	26	65.50
FLTEBL450	450	450.0	641.4	584.2	16	22.2	M24	26	87.00
FLTEBL500	500	500.0	704.9	641.4	16	22.2	M24	26	114.75



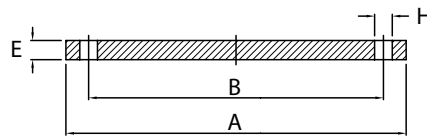
## Slip on Forged Flat Face Flange (Table H)

Slip On Flat Face Flange AS2129 (Table H)												
CODE	PIPE		FLANGE				DIMENSIONS OF BOSS			BOLT	E	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	F	J		SIZE		
FLTHSO015	15	21.3	114.3	82.6	4	15.9	9.5	33.3	47.6	M16	12.7	1.13
FLTHSO020	20	26.9	114.0	82.6	4	15.9	11.1	38.1	47.6	M16	12.7	1.13
FLTHSO025	25	33.7	120.7	87.3	4	15.9	11.1	47.6	52.4	M16	14.3	1.36
FLTHSO032	32	42.4	133.4	98.4	4	15.9	11.1	55.6	63.5	M16	17.5	1.93
FLTHSO040	40	48.3	139.7	104.8	4	15.9	12.7	61.9	69.9	M16	17.5	2.04
FLTHSO050	50	60.3	165.1	127.0	4	15.9	12.7	74.6	92.9	M16	19.0	2.83
FLTHSO065	65	76.1	184.1	146.0	8	15.9	15.9	90.6	111.9	M16	19.0	3.74
FLTHSO080	80	88.9	203.2	165.1	8	15.9	15.9	106.4	130.2	M16	22.2	5.22
FLTHSO100	100	114.3	228.6	190.5	8	15.9	19.0	133.3	152.4	M16	25.4	7.26
FLTHSO125	125	139.7	279.4	235.0	8	19.0	19.0	160.3	190.5	M20	28.6	11.79
FLTHSO150	150	168.3	304.8	260.3	12	19.0	19.0	185.7	215.9	M20	28.6	13.15
FLTHSO200	200	219.1	368.3	323.9	12	19.0	22.2	241.3	279.4	M24	31.8	19.50
FLTHSO250	250	273.0	431.8	381.0	12	22.2	25.4	298.5	328.6	M30	34.9	27.22



## Blind Flange (Table H)

Blind Flange AS2129 (Table H)									
CODE	PIPE		FLANGE				BOLT	E	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	SIZE		
FLTHBL015	15	21.3	114.3	82.6	4	15.9	M16	13	0.91
FLTHBL020	20	26.9	114.0	82.6	4	15.9	M16	13	1.36
FLTHBL025	25	33.7	120.7	87.3	4	15.9	M16	14	1.59
FLTHBL032	32	42.4	133.4	98.4	4	15.9	M16	17	1.81
FLTHBL040	40	48.3	139.7	104.8	4	15.9	M16	17	1.93
FLTHBL050	50	60.3	165.1	127.0	4	15.9	M16	19	4.08
FLTHBL065	65	76.1	184.1	146.0	8	15.9	M16	19	6.35
FLTHBL080	80	88.9	203.2	165.1	8	15.9	M16	22	8.62
FLTHBL100	100	114.3	228.6	190.5	8	15.9	M16	25	18.14
FLTHBL125	125	139.7	279.4	235.0	8	19.0	M20	29	30.39
FLTHBL150	150	168.3	304.8	260.3	12	19.0	M20	29	32.66
FLTHBL200	200	219.1	368.3	323.9	12	19.0	M24	32	39.46
FLTHBL250	250	273.0	431.8	381.0	12	22.2	M30	35	54.43



## Screwed Flat Face Flange (Table E)

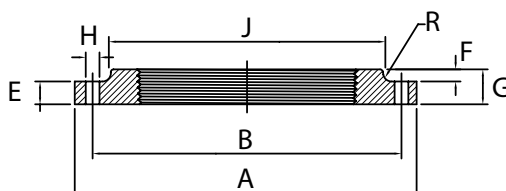
Screwed Flat Face Flange (Table E)											
CODE	PIPE		FLANGE				DIMENSIONS OF BOSS		BOLT	G	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H		J	SIZE		
FLSCTE015	15	21.3	95.3	66.7	4	12.7	9.5	33.3	M12	6.3	0.34
FLSCTE020	20	26.9	101.6	73.0	4	12.7	11.1	38.1	M12	6.3	0.45
FLSCTE025	25	33.7	114.3	82.6	4	12.7	11.1	47.6	M12	7.1	0.57
FLSCTE032	32	42.4	120.7	87.3	4	12.7	11.1	55.6	M12	7.9	0.79
FLSCTE040	40	48.3	133.3	98.4	4	12.7	12.7	61.9	M12	8.7	1.02
FLSCTE050	50	60.3	152.4	114.3	4	15.9	12.7	74.6	M16	9.5	1.36
FLSCTE065	65	76.1	165.1	127.0	4	15.9	15.9	90.5	M16	10.3	1.70
FLSCTE080	80	88.9	184.1	146.0	4	15.9	15.9	106.4	M16	11.1	2.27
FLSCTE100	100	114.3	215.9	177.8	8	15.9	19.0	133.3	M16	13.7	3.18
FLSCTE125	125	139.7	254.0	209.6	8	15.9	19.0	160.3	M16	14.3	4.76
FLSCTE150	150	168.3	279.4	235.0	8	19.0	19.0	185.7	M20	17.5	7.48



## Galvanized Screwed Flat Face Flange (Table E)

Galvanized Screwed BSP Flat Face Flange AS2129/BS10 Table E

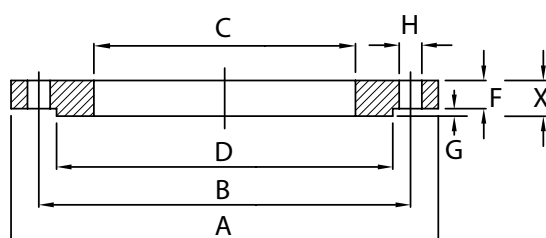
CODE	PIPE		FLANGE				DIMENSIONS OF BOSS			BOLT	E	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	F	J	R	SIZE		
FLSCTEG015	15	21.3	95.3	66.7	4	12.7	9.5	33.3	38.1	M12	6.3	0.34
FLSCTEG020	20	26.9	101.6	73.0	4	12.7	11.1	38.1	44.5	M12	6.3	0.45
FLSCTEG025	25	33.7	114.3	82.6	4	12.7	11.1	47.6	52.4	M12	7.1	0.57
FLSCTEG032	32	42.4	120.7	87.3	4	12.7	11.1	55.6	57.0	M12	7.9	0.79
FLSCTEG040	40	48.3	133.3	98.4	4	12.7	12.7	61.9	69.9	M12	8.7	1.02
FLSCTEG050	50	60.3	152.4	114.3	4	15.9	12.7	74.6	79.4	M16	9.5	1.36
FLSCTEG065	65	76.1	165.1	127.0	4	15.9	15.9	90.5	92.9	M16	10.3	1.70
FLSCTEG080	80	88.9	184.1	146.0	4	15.9	15.9	106.4	111.9	M16	11.1	2.27
FLSCTEG100	100	114.3	215.9	177.8	8	15.9	19.0	133.3	139.7	M16	13.7	3.18
FLSCTEG125	125	139.7	254.0	209.6	8	15.9	19.0	160.3	171.4	M16	14.3	4.76
FLSCTEG150	150	168.3	279.4	235.0	8	19.0	19.0	185.7	190.5	M20	17.5	7.48



# DIN PN16 Forged Slip On RF Flanges

PN16 Slip On RF Flange BS4504 A105N

CODE	PIPE		FLANGE				RAISED FACE		BOSS	BOLT	X	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	D	G		SIZE		
FL16SO015	15	21.3	95	65	4	14	45	2	35	M12	20	0.65
FL16SO020	20	26.9	105	75	4	14	58	2	45	M12	24	0.95
FL16SO025	25	33.7	115	85	4	14	68	2	52	M12	24	1.14
FL16SO032	32	42.4	140	100	4	18	78	2	60	M16	26	1.69
FL16SO040	40	48.3	150	110	4	18	88	3	70	M16	26	1.86
FL16SO050	50	60.3	165	125	4	18	102	3	85	M16	28	2.53
FL16SO065	65	76.1	185	145	4	18	122	3	105	M16	32	3.06
FL16SO080	80	88.9	200	160	8	18	138	3	118	M16	34	3.70
FL16SO100	100	114.3	220	180	8	18	158	3	140	M16	40	4.62
FL16SO125	125	139.7	250	210	8	18	188	3	168	M16	44	6.30
FL16SO150	150	168.3	285	240	8	22	212	3	195	M20	44	7.75
FL16SO200	200	219.1	340	295	12	22	268	3	247	M20	44	11.30
FL16SO250	250	273.0	405	355	12	26	320	3	300	M27	46	15.60
FL16SO300	300	323.9	460	410	12	26	378	3	355	M27	46	22.00
FL16SO350	350	381.0	520	470	16	26	438	4	400	M27	57	31.20

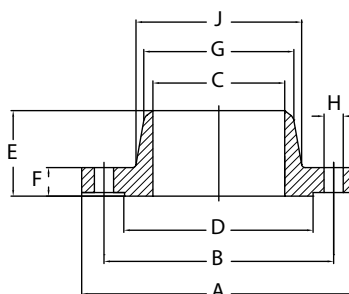




## DIN PN16 RF Weld Neck Flange

**PN16 RF Weld Neck Flange BS4504 A105N**

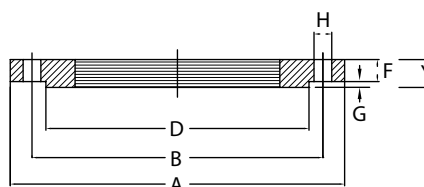
CODE	PIPE		FLANGE				NECK	RAISED FACE	BOLT	E	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	J	D	SIZE		
FL16WN025	25	33.7	115	85	4	14	46	68	M12	38	1.14
FL16WN032	32	42.4	140	100	4	18	56	78	M16	40	1.69
FL16WN040	40	48.3	150	110	4	18	64	88	M16	42	1.86
FL16WN050	50	60.3	165	125	4	18	75	102	M16	45	2.53
FL16WN065	65	76.1	185	145	4	18	90	122	M16	45	3.06
FL16WN080	80	88.9	200	160	8	18	105	138	M16	50	3.70
FL16WN100	100	114.3	220	180	8	18	131	158	M16	52	4.62
FL16WN125	125	139.7	250	210	8	18	156	188	M16	55	6.30
FL16WN150	150	168.3	285	240	8	22	184	212	M20	55	7.75
FL16WN200	200	219.1	340	295	12	22	235	268	M20	62	11.30



## DIN PN16 RF Flange Screwed BSP Thread Galvanized

**Galvanized Screwed BSP Flange BS4504 A105N PN16**

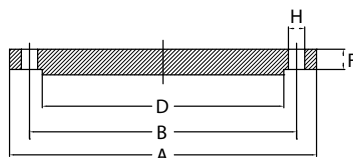
CODE	PIPE		FLANGE				RAISED FACE		BOLT	Y	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	D	G	SIZE		
FLSC16G040	40	48.3	150	110	4	18	88	3	M16	26	1.86
FLSC16G050	50	60.3	165	125	4	18	102	3	M16	28	2.53
FLSC16G065	65	76.1	185	145	4	18	122	3	M16	32	3.06
FLSC16G080	80	88.9	200	160	8	18	138	3	M16	34	3.70



## DIN PN16 Blind Flange

PN16 Blank Flange BS4504 A105N

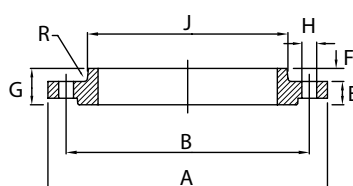
CODE	PIPE		FLANGE				SPIGOT	BOLT	E	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES		D	SIZE		
FL16BL025	25	33.7	115	85	4	14	-	M12	14	1.2
FL16BL032	32	42.4	140	100	4	18	-	M16	14	1.8
FL16BL040	40	48.3	150	110	4	18	-	M16	14	2.1
FL16BL050	50	60.3	165	125	4	18	-	M16	14	2.9
FL16BL065	65	76.1	185	145	4	18	55	M16	14	3.6
FL16BL080	80	88.9	200	160	8	18	70	M16	16	4.6
FL16BL100	100	114.3	220	180	8	18	90	M16	16	5.6
FL16BL150	150	168.3	285	240	8	22	140	M20	18	10.5
FL16BL200	200	219.1	340	295	12	22	190	M20	20	16
FL16BL250	250	273.0	405	355	12	26	237	M24	22	25



## DIN PN40 RF Forged Slip On Flange

PN40 RF Slip On Flange BS4504 A105N

CODE	PIPE		FLANGE				RAISED FACE		BOSS	BOLT	G	APPROX KG/PC
	NB	OD	A	B	NUMBER HOLES	H	J	Y	R	SIZE		
FL40SO025	25	33.7	115	85	4	14	68	2	52	M12	28	1.29
FL40SO032	32	42.4	140	100	4	18	78	2	60	M16	78	1.88
FL40SO040	40	48.3	150	110	4	18	88	3	70	M16	88	2.33
FL40SO050	50	60.3	165	125	4	18	102	3	85	M16	102	2.82
FL40SO065	65	76.1	185	145	8	18	122	3	105	M16	122	3.74
FL40SO080	80	88.9	200	160	8	18	138	3	118	M16	138	4.75
FL40SO100	100	114.3	235	190	8	22	162	3	145	M20	162	6.52
FL40SO150	150	168.3	300	250	8	26	218	3	200	M24	218	11.80
FL40SO200	200	219.1	375	320	12	30	285	3	260	M27	285	21.50



## Material Specifications

### British Standard Threads

#### ALL MEASUREMENTS IN MM

NOMINAL BORE OF PIPE		APPROX OUTSIDE DIAMETER	NUMBER OF THREADS PER INCH	PITCH	DEPTH OF THREADS	DIAMETER AT GAUGE PLANE	LENGTH OF USEFUL THREAD
IMPERIAL	METRIC	A		P	H	B	E
1/8	6	10.16	28	0.907	0.581	9.72	6.5
1/4	8	13.66	19	1.337	0.856	13.15	9.7
3/8	10	17.17	19	1.337	0.856	16.66	10.1
1/2	15	21.51	14	1.814	1.162	20.95	13.2
3/4	20	27.00	14	1.814	1.162	26.44	14.5
1	25	33.93	11	2.309	1.479	33.24	16.8
1 1/4	32	42.59	11	2.309	1.479	41.91	19.1
1 1/2	40	48.48	11	2.309	1.479	47.80	19.1
2	50	60.47	11	2.309	1.479	59.61	23.4
2 1/2	65	76.09	11	2.309	1.479	75.18	26.7
3	80	88.87	11	2.309	1.479	87.88	29.8
4	100	114.14	11	2.309	1.479	113.03	35.8
5	125	139.65	11	2.309	1.479	138.43	40.1
6	150	165.12	11	2.309	1.479	163.83	40.1

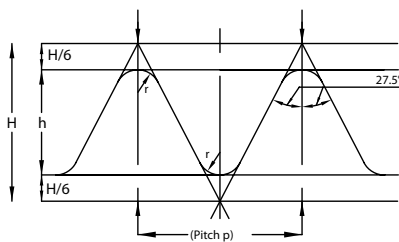


Fig. 1. (Parallel)  
 $H = 0.960491 \times p$   
 $h = 0.640327 \times p$   
 $r = 0.137329 \times p$

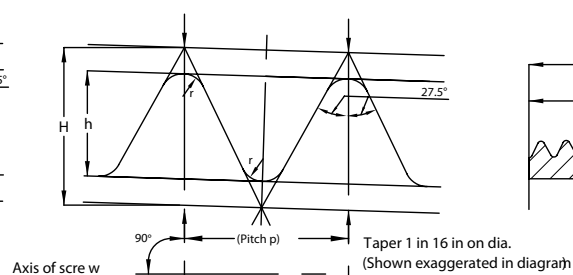


Fig. 2. (Taper)  
 $H = 0.960237 \times p$   
 $h = 0.640327 \times p$   
 $r = 0.137278 \times p$

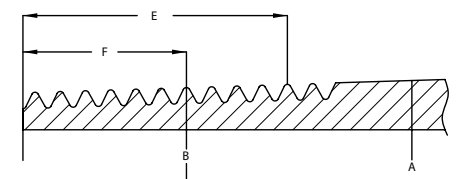


Fig. 3. (Taper)

### Chemical Composition Of Seamless Steel Fittings

C MAX. (%)	S MAX. (%)	P MAX. (%)
0.25	0.35	0.09

### Chemical Composition Of Fabricated Fittings

C MAX. (%)	Mn MAX. (%)	P MAX. (%)	S MAX. (%)
0.25	1.40	0.045	0.045

### Mechanical Properties Of Seamless Steel Fittings

TENSILE STRENGTH MIN. (N/mm <sup>2</sup> )	ELONGATION MIN. (%)
320	20

### Mechanical Properties of Fabricated Fittings

TENSILE STRENGTH MIN. (N/mm <sup>2</sup> )	YEILD STRENGTH MIN. (N/mm <sup>2</sup> )	ELONGATION MIN. (%)
320	195	20

## Black Steel Unions – Taper Threads

**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

H J 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 2" nominal bore individually tested to 2000 p.s.i. and sample tested to 3000 p.s.i.
- All sizes of unions over 2" nominal bore 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.

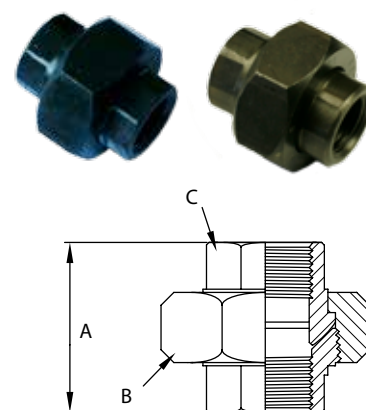
Dimensions – mm											
DN	8	10	15	20	25	32	40	50	65	80	100
A*	57	57	67	78	86	101	108	119	138	154	165
B	35	35	42	52	61	74	82	102	122	143	167
C	22	22	26	34	40	50	55	70	88	104	128
D	13	13	17	19	21	24	25	28	29	32	38
E*	42	42	46	56	60	73	80	86	106	118	122

NOTES: 1. Dimension B – Nut is Hexagon up to DN 25. Nut is Octagon DN 32 and larger.  
 2. Dimension C – Body Flats are all Octagon.  
 3.\* Dimensions A & E are approximately overall length in mm.

## Black Mild Steel Female-Female Union

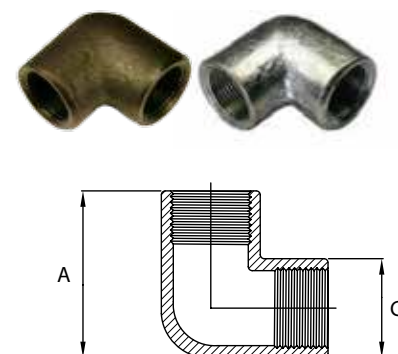
Seats Available – Steel-Steel, Steel-Bronze, Bronze-Bronze. **All Unions have BSPT thread.**

Black Mild Steel Female-Female Union							
CODE			METRIC SIZE	A	ACROSS FLATS		APPROX KG/PC
STEEL-STEEL	BRONZE-STEEL	BRONZE-BRONZE			B	C	
	WBUB008		8	42	35	21	0.16
WBUS010	WBUB010		10	42	35	21	0.14
WBUS015	WBUB015	WBUBB015	15	46	42	26	0.23
WBUS020	WBUB020	WBUBB020	20	54	52	34	0.41
WBUS025	WBUB025	WBUBB025	25	61	61	40	0.59
WBUS032	WBUB032	WBUBB032	32	71	76	50	0.91
WBUS040	WBUB040	WBUBB040	40	82	83	56	1.28
WBUS050	WBUB050	WBUBB050	50	88	101	70	2.01



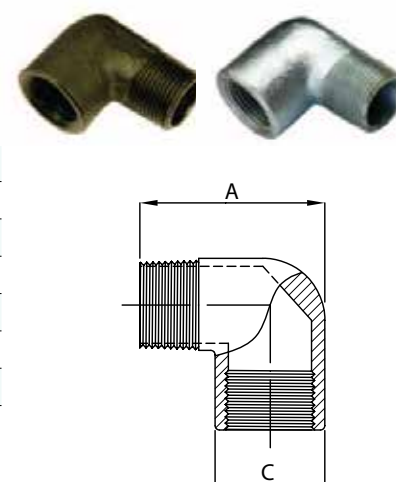
## Black & Galvanized Mild Steel Female-Female Elbow

Black & Galvanized Mild Steel Female-Female Elbow					
CODE		METRIC SIZE	A	C	APPROX KG/PC
BLACK	GALVANISED				
WBE006		6	32	19	0.08
WBE008		8	32	19	0.06
WBE010		10	36	22	0.08
WBE015	WGE015	15	46	28	0.17
WBE020	WGE020	20	53	34	0.24
WBE025	WGE025	25	66	42	0.43
WBE032	WGE032	32	76	50	0.63
WBE040	WGE040	40	86	58	0.97
WBE050	WGE050	50	98	69	1.32
WBE065		65	114	83	1.55
WBE080		80	138	97	2.57
WBE100		100	179	124	4.41

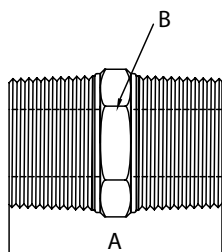


## Black & Galvanised Mild Steel Male-Female Elbow

Black & Galvanised Mild Steel Male-Female Elbow					
CODE		METRIC SIZE	A	C	APPROX KG/PC
BLACK	GALVANISED				
WBEMF008		8	40	19	0.05
WBEMF010		10	44	22	0.07
WBEMF015	WGEMF015	15	58	28	0.17
WBEMF020	WGEMF020	20	67	34	0.22
WBEMF025	WGEMF025	25	70	43	0.35
WBEMF032	WGEMF032	32	90	50	0.61
WBEMF040	WGEMF040	40	97	57	0.82
WBEMF050	WGEMF050	50	115	70	1.15

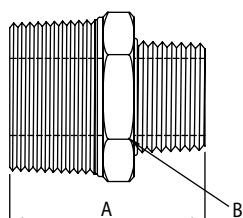


## Black & Galvanised Mild Steel Nipple



Black & Galvanised Mild Steel Nipple					
CODE		METRIC SIZE	A	ACROSS FLATS	APPROX KG/PC
BLACK	GALVANISED			B	
WBN006		6	27	11	0.01
WBN008		8	33	16	0.03
WBN010		10	34	19	0.04
WBN015	WGN015	15	46	22	0.07
WBN020	WGN020	20	47	27	0.08
WBN025	WGN025	25	52	35	0.13
WBN032	WGN032	32	61	47	0.27
WBN040	WGN040	40	61	52	0.31
WBN050	WGN050	50	68	61	0.48
WBN065		65	79	79	0.77
WBN080		80	88	92	1.35
WBN100		100	101	117	2.32

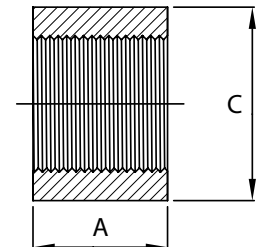
## Black & Galvanised Mild Steel Reducing Nipple



Black & Galvanised Mild Steel Reducing Nipple					
CODE		METRIC SIZE	A	ACROSS FLATS	APPROX KG/PC
BLACK	GALVANISED			B	
WBNR008006		8 X 6	30	16	0.02
WBNR010006		10 X 6	31	19	0.03
WBNR010008		10 X 8	34	19	0.04
WBNR015008		15 X 8	40	22	0.05
WBNR015010		15 X 10	40	22	0.06
WBNR020008		20 X 8	42	27	0.10
WBNR020010		20 X 10	42	27	0.07
WBNR020015	WGNR020015	20 X 15	47	27	0.09
WBNR025015	WGNR025015	25 X 15	50	35	0.13
WBNR025020		25 X 20	50	35	0.13
WBNR032015		32 X 15	55	47	0.20
WBNR032020		32 X 20	55	47	0.25
WBNR032025		32 X 25	57	47	0.24
WBNR040015		40 X 15	57	52	0.50
WBNR040020		40 X 20	57	52	0.32
WBNR040025		40 X 25	59	52	0.30
WBNR040032		40 X 32	63	52	0.34
WBNR050020		50 X 20	60	61	0.41
WBNR050025		50 X 25	62	61	0.52
WBNR050032		50 X 32	66	61	0.51
WBNR050040		50 X 40	66	61	0.49

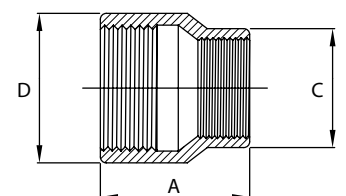
## Black & Galvanised Mild Steel Socket

Black & Galvanised Mild Steel Socket					
CODE		METRIC SIZE	A	C	APPROX KG/PC
BLACK	GALVANISED				
WBSF006	WGSF006	6	19.3	15.6	0.01
WBSF008	WGSF008	8	27.0	18.5	0.03
WBSF010	WGSF010	10	28.0	22.0	0.04
WBSF015	WGSF015	15	37.0	27.0	0.07
WBSF020	WGSF020	20	39.0	32.5	0.09
WBSF025	WGSF025	25	46.0	39.5	0.15
WBSF032	WGSF032	32	51.0	49.0	0.22
WBSF040	WGSF040	40	51.0	56.0	0.29
WBSF050	WGSF050	50	60.0	68.0	0.44
WBSF065	WGSF065	65	69.0	84.0	0.67
WBSF080	WGSF080	80	75.0	98.0	0.96
WBSF100	WGSF100	100	87.0	124.0	1.55
WBSF125	WGSF125	125	96.0	151.0	2.37
WBSF150	WGSF150	150	96.0	178.0	3.03

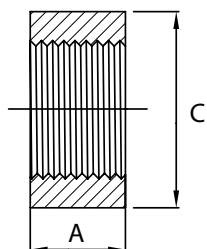


## Black Mild Steel Reducing Socket

Black Mild Steel Reducing Socket					
CODE	METRIC SIZE	A	C	D	APPROX KG/PC
WBSR015008	15 X 8	36	22	28	0.08
WBSR015010	15 X 10	36	22	28	0.08
WBSR020010	20 X 10	39	30	34	0.15
WBSR020015	20 X 15	39	30	34	0.14
WBSR025015	25 X 15	47	31	41	0.20
WBSR025020	25 X 20	47	31	41	0.20
WBSR032015	32 X 15	57	30	50	
WBSR032020	32 X 20	57	38	50	0.36
WBSR032025	32 X 25	57	44	50	0.35
WBSR040015	40 X 15	60	30	57	0.50
WBSR040020	40 X 20	60	38	57	0.43
WBSR040025	40 X 25	60	44	57	0.43
WBSR040032	40 X 32	60	50	57	0.40
WBSR050015	50 X 15	63	31	69	
WBSR050020	50 X 20	63	38	69	0.60
WBSR050025	50 X 25	63	44	69	0.60
WBSR050032	50 X 32	63	50	69	0.60
WBSR050040	50 X 40	63	57	69	0.60

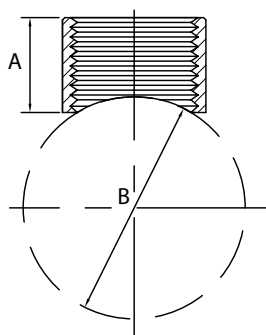


## Black Mild Steel Half Socket



Black Mild Steel Half Socket				
CODE	METRIC SIZE	A	C	APPROX KG/PC
WBSH010	10	12.2	22.0	0.02
WBSH015	15	16.0	27.0	0.03
WBSH020	20	19.1	32.5	0.04
WBSH025	25	21.1	39.5	0.06
WBSH032	32	28.1	49.0	0.11
WBSH040	40	25.3	56.0	0.17
WBSH050	50	28.3	68.0	0.20
WBSH065	65	30.6	84.0	0.38

## Black Mild Steel Profile Socket

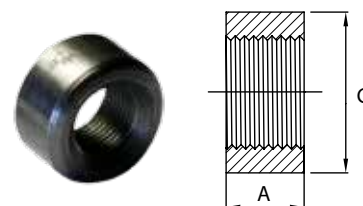


Black Mild Steel Profile Socket				
CODE	METRIC SIZE	A	B (DIA.)	APPROX KG/PC
WBSP015025	15 X 25			
WBSP015050	15 X 50	26.0	28.0	0.10
WBSP020050	20 X 50	30.0	32.0	0.10
WBSP025032	25 X 32	33.5	42.4	0.10
WBSP025040	25 X 40	32.5	48.3	0.10
WBSP025050	25 X 50	31.2	60.3	0.10
WBSP025065	25 X 65	30.3	76.0	0.10
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



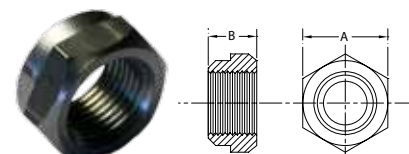
## Black Mild Steel Pap

Black Mild Steel Pap				
CODE	METRIC SIZE	A	B	APPROX KG/PC
WSHP010	10	28.57	15.75	0.05
WSHP015	15	28.57	15.75	0.04



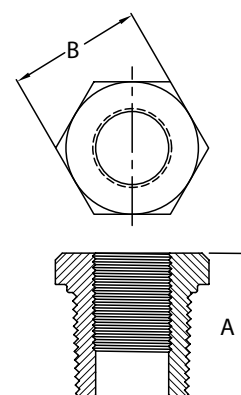
## Black Mild Steel Hexagon Pap

Black Mild Steel Hexagon Pap				
CODE	METRIC SIZE	A	B	APPROX KG/PC
WSBPH/015	1/2	28.57	16	0.04

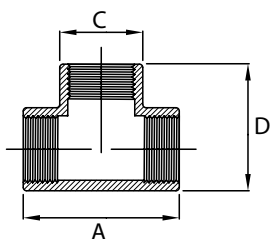


## Black & Galvanised Mild Steel Bush

Black & Galvanised Mild Steel Bush					
CODE		METRIC SIZE	A	B	APPROX KG/PC
BLACK	GALVANISED				
WBB008006		8 X 6	20	15	0.01
WBB010006		10 X 6	21	19	0.02
WBB010008		10 X 8	21	19	0.02
WBB015008		15 X 8	27	22	0.04
WBB015010		15 X 10	27	22	0.03
WBB020008		20 X 8	28	27	0.07
WBB020010		20 X 10	28	27	0.06
WBB020015	WGB020015	20 X 15	28	27	0.05
WBB025008		25 X 8	30	35	0.13
WBB025010		25 X 10	30	35	0.12
WBB025015	WGB025015	25 X 15	30	35	0.11
WBB025020	WGB025020	25 X 20	30	35	0.08
WBB032015		32 X 15	36	47	0.25
WBB032020	WGB032020	32 X 20	36	47	0.24
WBB032025	WGB032025	32 X 25	36	47	0.19
WBB040015	WGB040015	40 X 15	38	52	0.33
WBB040020	WGB040020	40 X 20	38	52	0.30
WBB040025	WGB040025	40 X 25	38	52	0.25
WBB040032		40 X 32	38	52	0.17
WBB050015		50 X 15	41	61	0.50
WBB050020	WGB050020	50 X 20	41	61	0.50
WBB050025	WGB050032	50 X 25	41	61	0.43
WBB050032	WGB050040	50 X 32	41	61	0.41
WBB050040		50 X 40	41	61	0.35
WBB065040		65 X 40	47	79	0.97
WBB065050		65 X 50	47	79	0.68
WBB080040		80 X 40	54	92	1.46
WBB080050		80 X 50	54	92	1.17
WBB080065		80 X 65	54	92	0.84

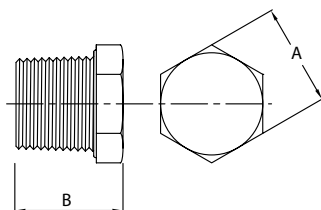


## Black & Galvanised Mild Steel Equal Tee



Black & Galvanised Mild Steel Equal Tee						
CODE		METRIC SIZE	A	C	D	APPROX KG/PC
BLACK	GALVANISED					
WBT006		6	46	20	33	0.11
WBT008		8	46	20	33	0.08
WBT010		10	48	21	35	0.09
WBT015	WGT015	15	63	30	46	0.23
WBT020	WGT020	20	71	35	51	0.31
WBT025	WGT025	25	88	43	65	0.55
WBT032	WGT032	32	106	51	75	0.72
WBT040	WGT040	40	108	58	83	1.00
WBT050	WGT050	50	131	71	101	1.57
WBT065		65	151	84	118	1.95
WBT080		80	178	99	135	3.09
WBT100		100	233	124	174	5.63

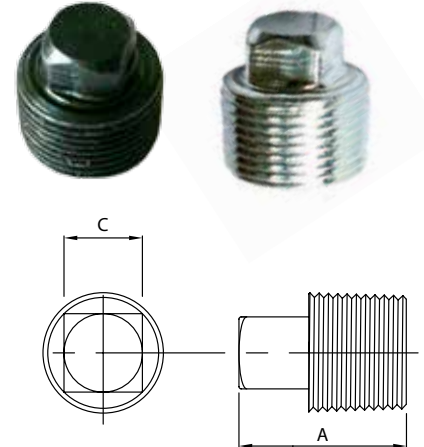
## Black & Galvanised Mild Steel Plug



Black & Galvanised Mild Steel Plug					
CODE		METRIC SIZE	ACROSS FLATS	B	APPROX KG/PC
BLACK	GALVANISED		A		
WBPH006		6	11.0	16.7	0.01
WBPH008		8	16.0	19.8	0.02
WBPH010		10	19.0	21.4	0.04
WBPH015	WGP015	15	22.2	27.0	0.07
WBPH020	WGP020	20	27.0	28.6	0.12
WBPH025	WGP025	25	35.0	30.9	0.20
WBPH032	WGP032	32	47.2	36.5	0.41
WBPH040	WGP040	40	52.1	38.1	0.55
WBPH050	WGP050	50	61.3	41.3	0.88
WBPH080		80	92.1	54.0	2.56
WBPH100		100	115.8	61.9	4.93

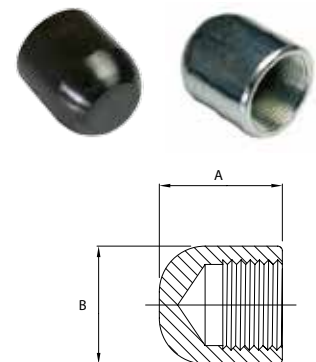
## Black & Galvanised Mild Steel Square Head Plug

Black & Galvanised Mild Steel Square Head Plug				
CODE	METRIC SIZE	A	C	APPROX KG/PC
WBPS006	6	15	6	0.01
WBPS008	8	17	8	0.01
WBPS010	10	22	11	0.02
WBPS015	15	23	12	0.04
WBPS020	20	27	19	0.08
WBPS025	25	33	19	0.15
WBPS032	32	41	22	0.33
WBPS040	40	47	27	0.44
WBPS050	50	47	32	0.70
WBPS065	65	50		1.10
WBPS080	80	57		1.70



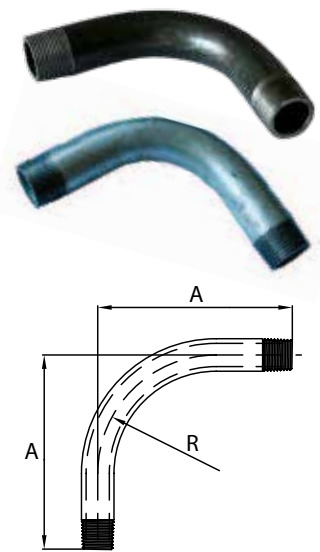
## Black & Galvanised Mild Steel Cap

Black & Galvanised Mild Steel Cap					
CODE		METRIC SIZE	A	B	APPROX KG/PC
BLACK	GALVANISED				
WBC020	WGC020	20	38.1	34.9	0.15
WBC025	WGC025	25	44.5	41.3	0.24
WBC032		32	50.8	50.8	0.39
WBC040		40	54.0	57.2	0.43
WBC050		50	60.3	69.9	0.78

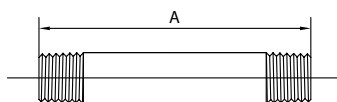


## Black & Galvanised Mild Steel M/M Bend 90 Degrees

Black & Galvanised Mild Steel M/M Bend 90 Degrees					
CODE		METRIC SIZE	A	R	APPROX KG/PC
BLACK	GALVANISED				
WBLB006	WGLB006	6	57		0.1
WBLB008	WGLB008	8	64	41	0.08
WBLB010	WGLB010	10	73	48	0.12
WBLB015	WGLB015	15	86	57	0.18
WBLB020	WGLB020	20	102	73	0.29
WBLB025	WGLB025	25	121	89	0.53
WBLB032	WGLB032	32	146	108	0.83
WBLB040	WGLB040	40	165	127	1.06
WBLB050	WGLB050	50	203	159	1.85
WBLB065	WGLB065	65	248	197	3.29
WBLB080	WGLB080	80	292	232	5.22
WBLB100	WGLB100	100	381	308	9.74
WBLB150	WGLB150	150	653		24.6



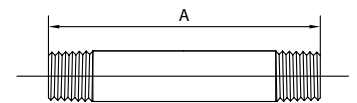
## Black &amp; Galvanised Mild Steel Barrel Nipple



Black & Galvanised Mild Steel Barrel Nipple				
CODE		METRIC SIZE	A	APPROX KG/PC
BLACK	GALVANISED			
	WGBN00625	6	25	0.01
WBBN00630	WGBN00630		30	0.01
WBBN00640	WGBN00640		40	0.01
WBBN00650	WGBN00650		50	0.02
WBBN00660	WGBN00660		60	0.02
WBBN00670	WGBN00670		70	0.03
WBBN00680	WGBN00680		80	0.03
WBBN00690	WGBN00690		90	0.03
	WGBN00825	8	25	0.02
WBBN00830	WGBN00830		30	0.02
WBBN00840	WGBN00840		40	0.03
WBBN00850	WGBN00850		50	0.03
WBBN00860	WGBN00860		60	0.04
WBBN00870	WGBN00870		70	0.04
WBBN00880	WGBN00880		80	0.05
WBBN00890	WGBN00890		90	0.06
WBBN01030	WGBN01030	10	30	0.03
WBBN01040	WGBN01040		40	0.04
WBBN01050	WGBN01050		50	0.04
WBBN01060	WGBN01060		60	0.05
WBBN01070	WGBN01070		70	0.06
WBBN01080	WGBN01080		80	0.07
WBBN01090	WGBN01090		90	0.08
WBBN01540	WGBN01540	15	40	0.05
WBBN01550	WGBN01550		50	0.06
WBBN01560	WGBN01560		60	0.08
WBBN01570	WGBN01570		70	0.09
WBBN01580	WGBN01580		80	0.10
WBBN01590	WGBN01590		90	0.11
WBBN02040	WGBN02040	20	40	0.07
WBBN02050	WGBN02050		50	0.09
WBBN02060	WGBN02060		60	0.11
WBBN02070	WGBN02070		70	0.13
WBBN02080	WGBN02080		80	0.15
WBBN02090	WGBN02090		90	0.17
	WGBN02540	25	40	0.12
WBBN02550	WGBN02550		50	0.15
WBBN02560	WGBN02560		60	0.18
WBBN02570	WGBN02570		70	0.21
WBBN02580	WGBN02580		80	0.23
WBBN02590	WGBN02590		90	0.26
	WGBN03250	32	50	0.19
WBBN03260	WGBN03260		60	0.23
WBBN03270	WGBN03270		70	0.27

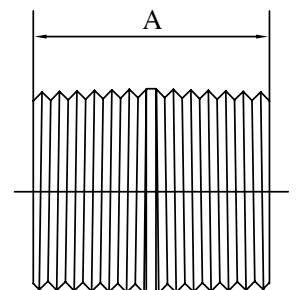
## Black & Galvanised Mild Steel Barrel Nipple (cont)

Black & Galvanised Mild Steel Barrel Nipple				
CODE		METRIC SIZE	A	APPROX KG/PC
BLACK	GALVANISED			
WBBN03280	WGBN03280		80	0.30
WBBN03290	WGBN03290		90	0.34
	WGBN04050	40	50	0.22
WBBN04060	WGBN04060		60	0.26
WBBN04070	WGBN04070		70	0.31
WBBN04080	WGBN04080		80	0.35
WBBN04090	WGBN04090		90	0.39
	WGBN05050	50	50	0.31
WBBN05060	WGBN05060		60	0.37
WBBN05070	WGBN05070		70	0.43
WBBN05080	WGBN05080		80	0.50
WBBN05090	WGBN05090		90	0.56
WBBN06580	WGBN06580	65	80	0.64
WBBN06590	WGBN06590		90	0.72
WBBN08080	WGBN08080	80	80	0.83
WBBN08090	WGBN08090		90	0.93
WBBN10090	WGBN10090	100	100	1.45

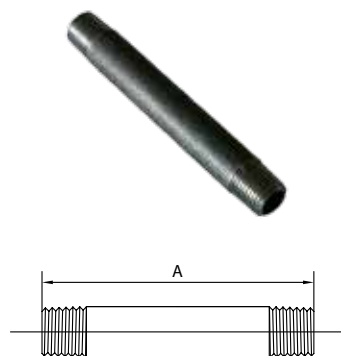


## Black Mild Steel Close Nipple

Black Mild Steel Close Nipple				
CODE		METRIC SIZE	A	APPROX KG/PC
BLACK	GALVANISED			
WBBN006CT	WGBN006CT	6	23	0.00
WBBN008CT	WGBN008CT	8	27	0.01
WBBN010CT	WGBN010CT	10	28	0.02
WBBN015CT	WGBN015CT	15	37	0.03
WBBN020CT	WGBN020CT	20	40	0.06
WBBN025CT	WGBN025CT	25	46	0.16
WBBN032CT	WGBN032CT	32	51	0.20
WBBN040CT	WGBN040CT	40	51	0.20
WBBN050CT	WGBN050CT	50	60	0.30
WBBN065CT	WGBN065CT	65	69	0.35
WBBN080CT	WGBN080CT	80	75	0.64
WBBN100CT	WGBN100CT	100	75	0.85



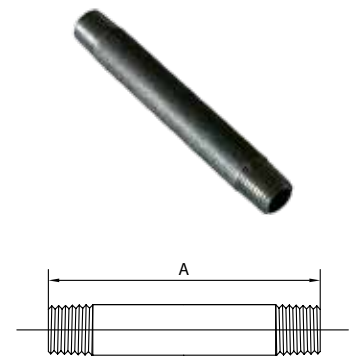
## Black &amp; Galvanised Mild Steel Barrel Piece



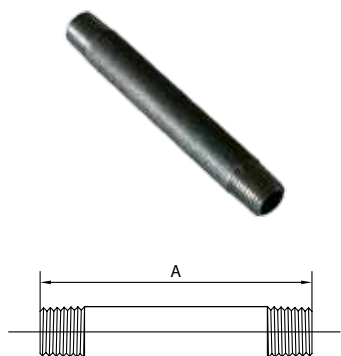
Black & Galvanised Mild Steel Barrel Piece				
CODE		METRIC SIZE	A	APPROX KG/PC
BLACK	GALVANISED			
WBBP006100	WGBP006100	6	100	0.04
	WGBP006125		125	0.05
WBBP006130	WGBP006130		130	0.05
WBBP006150	WGBP006150		150	0.05
WBBP008100	WGBP008100		100	0.06
	WGBP008125	8	125	0.08
WBBP008130	WGBP008130		130	0.08
WBBP008150	WGBP008150		150	0.09
WBBP010100	WGBP010100	10	100	0.09
	WGBP010125		125	0.11
WBBP010130	WGBP010130		130	0.11
WBBP010150	WGBP010150		150	0.13
WBBP015100	WGBP015100		100	0.13
	WGBP015120		120	0.15
WBBP015130	WGBP015130		130	0.16
WBBP015150	WGBP015150		150	0.19
WBBP015200	WGBP015200		200	0.25
WBBP015250	WGBP015250		250	0.32
WBBP015300	WGBP015300		300	0.38
WBBP015400			400	0.51
WBBP015450	WGBP015450		450	0.57
WBBP015500	WGBP015500		500	0.63
WBBP015600	WGBP015600		600	0.76
WBBP020100	WGBP020100	20	100	0.19
WBBP020130	WGBP020130		130	0.24
WBBP020150	WGBP020150		150	0.28
WBBP020200	WGBP020200		200	0.37
WBBP020250	WGBP020250		250	0.47
WBBP020300	WGBP020300		300	0.56
WBBP020400	WGBP020400		400	0.75
WBBP020450	WGBP020450		450	0.84
WBBP020500	WGBP020500		500	0.94
WBBP020600	WGBP020600		600	1.12
WBBP025100	WGBP025100		100	0.29
WBBP025130	WGBP025130		130	0.38
WBBP025150	WGBP025150	25	150	0.44
WBBP025200	WGBP025200		200	0.59
WBBP025250	WGBP025250		250	0.73
WBBP025300	WGBP025300		300	0.88
WBBP025400	WGBP025400		400	1.17
WBBP025450	WGBP025450		450	1.32
WBBP025500	WGBP025500		500	1.47
WBBP025600	WGBP025600		600	1.76
WBBP032100	WGBP032100	32	100	0.38

## Black &amp; Galvanised Mild Steel Barrel Piece (cont)

Black & Galvanised Mild Steel Barrel Piece				
CODE		METRIC SIZE	A	APPROX KG/PC
BLACK	GALVANISED			
WBBP032130	WGBP032130		130	0.49
WBBP032150	WGBP032150		150	0.57
WBBP032200	WGBP032200		200	0.76
WBBP032250	WGBP032250		250	0.95
WBBP032300	WGBP032300		300	1.14
	WGBP032350		350	1.33
WBBP032400	WGBP032400		400	1.52
WBBP032450	WGBP032450		450	1.70
WBBP032500	WGBP032500		500	1.89
WBBP032600	WGBP032600		600	2.27
WBBP040100	WGBP040100	40	100	0.44
WBBP040130	WGBP040130		130	0.57
WBBP040150	WGBP040150		150	0.66
WBBP040200	WGBP040200		200	0.87
WBBP040250	WGBP040250		250	1.09
WBBP040300	WGBP040300		300	1.31
WBBP040400	WGBP040400		400	1.75
WBBP040450	WGBP040450		450	1.97
WBBP040500	WGBP040500		500	2.19
WBBP040600	WGBP040600		600	2.62
WBBP050100	WGBP050100	50	100	0.62
WBBP050130	WGBP050130		130	0.80
WBBP050150	WGBP050150		150	0.93
WBBP050200	WGBP050200		200	1.24
WBBP050250	WGBP050250		250	1.55
WBBP050300	WGBP050300		300	1.86
WBBP050400	WGBP050400		400	2.48
WBBP050450	WGBP050450		450	2.79
WBBP050500	WGBP050500		500	3.10
WBBP050600	WGBP050600		600	3.72
WBBP065100	WGBP065100	65	100	0.79
WBBP065130	WGBP065130		130	1.03
WBBP065150	WGBP065150		150	1.19
WBBP065200	WGBP065200		200	1.59
WBBP065250	WGBP065250		250	1.99
WBBP065300	WGBP065300		300	2.38
WBBP065400	WGBP065400		400	3.18
WBBP065450	WGBP065450		450	3.58
WBBP065500	WGBP065500		500	3.97
WBBP065600	WGBP065600		600	4.77
WBBP080100	WGBP080100	80	100	1.03
WBBP080130	WGBP080130		130	1.34
WBBP080150	WGBP080150		150	1.55
WBBP080200	WGBP080200		200	2.07



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



Black & Galvanised Mild Steel Barrel Piece				
CODE		METRIC SIZE	A	APPROX KG/PC
BLACK	GALVANISED			
WBBP080250	WGBP080250		250	2.59
WBBP080300	WGBP080300		300	3.10
WBBP080400	WGBP080400		400	4.14
WBBP080450	WGBP080450		450	4.66
WBBP080500	WGBP080500		500	5.17
WBBP080600	WGBP080600		600	6.21
WBBP100100	WGBP100100	100	100	1.45
WBBP100130	WGBP100130		130	1.89
WBBP100150	WGBP100150		150	2.18
WBBP100200	WGBP100200		200	2.90
WBBP100250	WGBP100250		250	3.63
WBBP100300	WGBP100300		300	4.35
WBBP100400	WGBP100400		400	5.80
WBBP100450	WGBP100450		450	6.53
WBBP100500	WGBP100500		500	7.25
WBBP100600	WGBP100600		600	8.70
WBBP125200		125	200	3.58
WBBP150150		150	150	3.19

## Black Mild Steel Blank End

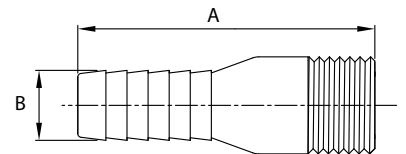


Black Mild Steel Blank End				
CODE	METRIC SIZE	Dia	A	APPROX KG/PC
WBBE025	25	31	4.7	0.03
WBBE032	32	37	4.7	0.04
WBBE040	40	45	4.7	0.07
WBBE050	50	57	4.7	0.09
WBBE065	65	73	4.7	0.15
WBBE080	80	87	4.7	0.18
WBBE100	100	112	4.7	0.4
WBBE150	150	163	4.7	0.48



## Galvanised Mild Steel Hose Tail

Galvanised Mild Steel Hose Tail				
CODE	METRIC SIZE	A	B	APPROX KG/PC
WGHT015	15	79.3	13.5	0.06
WGHT020	20	84.5	19.9	0.12
WGHT025	25	86.6	26.2	0.15
WGHT032	35	105.4	32.5	0.24
WGHT040	40	102.7	38.9	0.28
WGHT050	50	115.5	51.6	0.4
WGHT065	65	140.8	64.3	0.64
WGHT080	80	162.1	77.0	0.85
WGHT100	100	181.4	102.2	1.57
WGHT150	150			



## Pipe Hangers

H J Asmuss stock of mechanical supports and pipe clamps are designed to simplify and reduce the cost of attaching and supporting tube and pipe into construction and industry. From small refrigeration tubing, through to large industrial process and infrastructure piping.

## Pipe Saddle Zinc



Pipe Saddle Zinc					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
HASAG/015	15	21	75	115	0.05
HASAG/020	20	27	81	121	0.07
HASAG/025	25	34	88	128	0.08
HASAG/032	32	43	97	137	0.08
HASAG/040	40	51	105	145	0.09
HASAG/050	50	60	114	154	0.12

## Muncing Ring Zinc



Muncing Ring Zinc					
CODE	METRIC SIZE	A	B	BOSS	APPROX KG/PC
HAMRG/015	15	21	74	M10	0.10
HAMRG/020	20	27	83	M10	0.11
HAMRG/025	25	34	90	M10	0.12
HAMRG/032	32	43	100	M10	0.13
HAMRG/040	40	49	105	M10	0.14
HAMRG/050	50	61	118	M10	0.15
HAMRG/065	65	76	136	M10	0.18
HAMRG/080	80	89	160	M10	0.19
HAMRG/100	100	114	178	M10	0.29
HAMRG/150	150	165	230	M10	0.39
HAMRG12/065	65	76	136	M12	0.18
HAMRG12/080	80	89	160	M12	0.19
HAMRG12/100	100	114	178	M12	0.29
HAMRG12/150	150	165	230	M12	0.39

## Muncing Ring Galvanised



Muncing Ring Galvanised					
CODE	METRIC SIZE	A	B	BOSS	APPROX KG/PC
HAMRGAL/025	25	34	90	M10	0.12
HAMRGAL/032	32	43	100	M10	0.13
HAMRGAL/040	40	49	105	M10	0.14
HAMRGAL/050	50	61	118	M10	0.15
HAMRGAL/065	65	76	136	M10	0.18

## Muncing Ring Insulated

Muncing Ring Insulated					
CODE	METRIC SIZE	A	B	BOSS	APPROX KG/PC
HAMRGI/020	20	27	83	M10	0.12
HAMRGI/025	25	34	90	M10	0.13
HAMRGI/032	32	43	100	M10	0.13
HAMRGI/040	40	49	105	M10	0.14
HAMRGI/050	50	61	118	M10	0.15



## Base Plates

Base Plates					
CODE	A	B	O	BOSS	APPROX KG/PC
HABPG10	63	48	M6	M10	0.20
HABPZ10	63	48	M6	M10	0.20
HABPZ1045	63	44	M6	M10	0.20
HABPZ12	100	79	M8	M12	0.60



## U-Bolts

U-Bolts				
CODE	METRIC SIZE	A	B	APPROX KG/PC
HAUBZ/008X020	8 x 20	27		
HAUBZ/008X025	8 x 25	34	85	0.03
HAUBZ/008X032	8 x 32	43	93	0.03
HAUBZ/008X040	8 x 40	48	100	0.04
HAUBZ/008X050	8 x 50	60	110	0.06
HAUBZ/010X025	10 x 25	34	85	0.12
HAUBZ/010X040	10 x 40	48	100	0.14
HAUBZ/010X050	10 x 50	60	110	0.16
HAUBZ/010X065	10 x 65	76	127	0.28
HAUBZ/010X080	10 x 80	89	140	0.30
HAUBZ/010X100	10 x 100	114	165	0.38
HAUBZ/010X150	10 x 150	165	215	0.44
HAUBZ/012X090	12 x 90	102	152	0.35
HAUBZ/012X100	12 x 100	114	165	0.38
HAUBZ/012X150	12 x 150	165	215	0.44
HAUBG/010X025	10 x 25	34	85	0.12
HAUBG/010X040	10 x 40	48	100	0.14
HAUBG/010X065	10 x 65	76	127	0.28



## Two Piece Pipe Clamp



Two Piece Pipe Clamp					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
HASBG/015	15	21	85	61	0.10
HASBG/020	20	27	91	67	0.11
HASBG/025	25	34	98	74	0.14
HASBG/032	32	43	107	83	0.15
HASBG/040	40	48	112	88	0.15
HASBG/050	50	60	124	100	0.15
HASBG/065	65	76	140	116	0.19
HASBG/080	80	89	153	129	0.21
HASBG/100	100	114	178	154	0.26
HASBG/125	125	127	191	167	0.28
HASBG/150	150	165	229	205	0.37
HASBG/200	200	219	313	273	1.78
HASBG/250	250	273	367	327	2.18
HASBG/300	300	324	418	378	2.59

## Two Piece Pipe Clamp With Yoke



Two Piece Pipe Clamp With Yoke						
CODE		METRIC SIZE	A	B	C	APPROX KG/PC
LIGHT	MEDIUM					
HAYCG/025		25	34	98	74	0.20
HAYCG/032		32	43	107	83	0.21
HAYCG/040		40	48	112	88	0.21
HAYCG/050		50	60	124	100	0.21
HAYCG/065		65	76	140	116	0.28
HAYCG/080		80	89	153	129	0.30
HAYCG/100		100	114	178	154	0.34
HAYCG/150		150	165	229	205	0.44
	HAYMCG/080	80	89	183	143	1.24
	HAYMCG/100	100	114	210	170	1.36
	HAYMCG/150	150	165	259	219	1.66
	HAYMCG/200	200	219	313	273	1.86

# Bolt Engineers

Please note, all codes are for galvanised.

When ordering, please replace the XX in the code with the diameter required (e.g. 06, 08, 10, 12, 14, 16, 20, 24).

(Class 4.6) Hex Bolts & Nuts to AS:1110, AS1112									
CODE	LENGTH	GALVANISED							
		M6	M8	M10	M12	M14	M16	M20	M24
BEXX020G	20	•	•	•					
BEXX025G	25	•	•	•	•				
BEXX030G	30	•	•	•	•		•		
BEXX035G	35	•	•	•	•		•	•	
BEXX040G	40	•	•	•	•		•	•	
BEXX045G	45		•	•	•		•	•	
BEXX050G	50	•	•	•	•		•	•	•
BEXX055G	55	•	•	•	•		•	•	
BEXX060G	60	•	•	•	•	•	•	•	
BEXX065G	65	•	•	•	•	•	•	•	•
BEXX070G	70	•	•	•	•	•	•	•	
BEXX075G	75			•	•	•	•	•	
BEXX080G	80	•	•	•	•	•	•	•	
BEXX090G	90	•	•	•	•	•	•	•	•
BEXX100G	100	•	•	•	•	•	•	•	•
BEXX110G	110			•	•	•	•	•	•
BEXX120G	120			•	•	•	•	•	•
BEXX130G	130			•	•	•	•		•
BEXX140G	140			•	•	•	•	•	
BEXX150G	150			•	•	•	•	•	•
BEXX160G	160			•	•		•	•	
BEXX170G	170								
BEXX180G	180			•	•		•	•	
BEXX200G	200			•	•		•	•	
BEXX220G	220						•		
BEXX240G	240				•		•	•	
BEXX260G	260				•		•	•	
BEXX280G	280				•		•	•	
BEXX300G	300				•		•		

\* For other sizes or lengths, please contact our sales team.



## Bolt High Tensile

Please note, all codes are for zinc plated.

When ordering, please replace the XX in the code with the diameter required (e.g. 06, 08, 10, 12, 14, 16, 20, 24).

Hi Tensile (Class 8.8) Hex Bolts & Nuts to AS:1110, AS1112									
CODE	LENGTH	ZINC PLATED							
		M6	M8	M10	M12	M14	M16	M20	M24
BHXX012Z	12	.							
BHXX016Z	16	.	.						
BHXX020Z	20	.	.	.	.				
BHXX025Z	25	.	.	.	.				
BHXX030Z	30	.	.	.	.		.		
BHXX035Z	35	.	.	.	.		.		
BHXX040Z	40	.	.	.	.	.	.		
BHXX045Z	45		.	.	.		.		
BHXX050Z	50	.	.	.	.	.	.	.	
BHXX055Z	55	.	.	.			.		
BHXX060Z	60		.	.	.	.	.	.	
BHXX065Z	65		.	.	.		.	.	
BHXX070Z	70		.	.	.	.	.		
BHXX075Z	75			.	.		.	.	
BHXX080Z	80		.		.	.	.		
BHXX090Z	90			.	.	.	.	.	.
BHXX100Z	100			.	.		.	.	.
BHXX110Z	110			.	.		.		
BHXX120Z	120				.		.	.	.
BHXX130Z	130				.		.		
BHXX140Z	140			.	.		.	.	.
BHXX150Z	150			.	.		.		.
BHXX160Z	160						.	.	
BHXX170Z	170								
BHXX180Z	180							.	
BHXX200Z	200							.	.
BHXX220Z	220								
BHXX240Z	240								
BHXX260Z	260								
BHXX280Z	280								
BHXX300Z	300								

\* For other sizes or lengths, please contact our sales team.



Purlin Bolts		
CODE	SIZE	FINISH
BP12030Z	12 x 30	ZINC 4.8
BP16035Z	16 x 35	ZINC 4.8
BEF12030G	12 x 30	GALV MILD STEEL 4.8
BEF16035G	16 x 35	GALV MILD STEEL 4.8
BEFHT12030G	12 x 30	GALV HIGH TENSILE 8.8
BEFHT16035G	16 x 35	GALV HIGH TENSILE 8.8

## Structural Assemblies

Please note, all codes are for galvanised.

When ordering, please replace the XX in the code with the diameter required (e.g. 06, 08, 10, 12, 14, 16, 20, 24).

Structural Assemblies Galvanised to AS:1252										
CODE	LENGTH	GALVANISED								
		M12	M16	M20	M22	M24	M27	M30	M33	M36
SB12040G	40	•	•	•						
SBXX045G	45	•	•	•						
SBXX050G	50	•	•	•		•				
SBXX055G	55	•	•	•		•				
SBXX060G	60	•	•	•	•	•				
SBXX065G	65	•	•	•	•	•				
SBXX070G	70	•	•	•	•	•				
SBXX075G	75	•	•	•	•	•	•	•		
SBXX080G	80	•	•	•		•		•		
SBXX085G	85			•		•		•		
SBXX090G	90	•	•	•	•	•	•	•	•	•
SBXX100G	100	•	•	•	•	•	•	•	•	•
SBXX110G	110	•	•	•		•		•		
SBXX120G	120	•	•	•		•	•	•	•	•
SBXX130G	130		•	•	•	•	•	•	•	•
SBXX140G	140	•	•	•		•	•	•		•
SBXX150G	150	•	•	•	•	•	•	•	•	•
SBXX160G	160		•	•	•	•		•	•	•
SBXX180G	180	•	•	•	•	•	•	•	•	•
SBXX200G	200		•	•	•	•	•	•	•	•
SBXX220G	220		•	•		•	•		•	
SBXX240G	240		•	•		•	•	•	•	•
SBXX250G	250		•	•						
SBXX260G	260		•	•		•	•	•	•	•
SBXX280G	280		•	•		•		•	•	
SBXX300G	300		•	•		•	•	•	•	•
SBXX325G	325			•		•		•		
SBXX350G	350		•	•		•		•		•
SBXX375G	375			•		•		•		
SBXX400G	400		•	•		•		•		•
SBXX425G	425		•	•						
SBXX450G	450		•	•		•		•		•
SBXX475G	475		•	•						
SBXX500G	500		•	•		•		•		•

\* For other sizes or lengths, please contact our sales team.



## Nuts

## Hex Nut Class 8

## ZINC

CODE	SIZE
HN03Z	M3
HN04Z	M4
HN05Z	M5
HN06Z	M6
HN08Z	M8
HN10Z	M10
HN12Z	M12
HN14Z	M14
HN18Z	M18
HN20Z	M20
HN24Z	M24
HN30Z	M30
HN36Z	M36



## Structural Nut Class 8

## GALVANISED

CODE	SIZE
HNST12G	M12
HNST16G	M16
HNST20G	M20
HNST22G	M22
HNST24G	M24
HNST27G	M27
HNST30G	M30
HNST36G	M36



## Hex Nut Class 8

## GALVANISED

CODE	SIZE
HN08G	M8
HN10G	M10
HN12G	M12
HN16G	M16
HN18G	M18
HN20G	M20
HN24G	M24
HN27G	M27
HN30G	M30
HN33G	M33
HN36G	M36
HN42G	M42
HN48G	M48
HN52G	M52



## Coupling Nut Yellow

## ZINC

CODE	SIZE
TRC06Z	M6 X 25
TRC08Z	M8 X 25
TRC1040Z	M10 X 40
TRC1050Z	M10 X 50
TR12Z	M12 X 40
TR16Z	M16 X 50
TR20Z	M20 X 50
TR24Z	M24 X 50



## Coupling Nut

## GALVANISED

CODE	SIZE
TRC10G	M10 X 40
TRC12G	M12 X 40
TRC16G	M16 X 50
TRC20G	M20 X 50
TRC24G	M24 X 50
TRC30G	M30 X 90
TRC33G	M33 X 99





## Nuts

### Coupling Nut Class 8

#### GALVANISED

CODE	SIZE
TRCHT12G	M12 X 40
TRCHT16G	M16 X 50
TRCHT20G	M20 X 50
TRCHT24G	M24 X 72
TRCHT27G	M27 X 81
TRCHT30G	M30 X 90
TRCHT33G	M33 X 99
TRCHT36G	M36 X 108



### Nyloc Nuts

#### GALVANISED

CODE	SIZE
NN08G	M8
NN10G	M10
NN12G	M12
NN16G	M16
NN20G	M20
NN24G	M24
NN30G	M30



### Nyloc Nuts

#### ZINC

CODE	SIZE
NN05Z	M5
NN06Z	M6
NN08Z	M8
NN10Z	M10
NN12Z	M12
NN14Z	M14
NN16Z	M16
NN18Z	M18
NN20Z	M20
NN24Z	M24
NN30Z	M30



### Conelock Nut

#### GALVANISED

CODE	SIZE
HNC06Z	M6
HNC08Z	M8
HNC10Z	M10
HNC12Z	M12
HNC16Z	M16
HNC20Z	M20
HNC24Z	M24



## Washers

## Light Flat Washers

ZINC	
CODE	SIZE
WA0307Z	M3 X 7
WA0409Z	M4 X 9
WA0510Z	M5 X 10
WA0616Z	M6 X 16
WA0819Z	M8 X 19
WA1021Z	M10 X 21
WA1024Z	M10 X 24
WA1224Z	M12 X 24
WA1226	M12 X 26
WA1228Z	M12 X 28
WA1432Z	M14 X 32
WA1630Z	M16 X 30
WA1634Z	M16 X 34
WA2037Z	M20 X 37
WA2444Z	M24 X 44



## Structural Washers Class 8

GALVANISED	
CODE	SIZE
WAHS12G	M12
WAHS16G	M16
WAHS18G	M18
WAHS20G	M20
WAHS22G	M22
WAHS24G	M24
WAHS27G	M27
WAHS30G	M30
WAHS33G	M33
WAHS36G	M36
WAHS42G	M42
WAHS48G	M48
WAHS52G	M52



## Heavy Round Washer

GALVANISED	
CODE	SIZE
WAHRO0822G	M8 X 22
WAHRO1025G	M10 X 25
WAHRO1232G	M12 X 32
WAHRO1638G	M16 X 38
WAHRO2044G	M20 X 44.5
WAHRO2247G	M22 X 47.5
WAHRO2454G	M24 X 54
WAHRO3060G	M30 X 60



## Washers

### Square Washers

#### GALVANISED

CODE	SIZE
WASQ08403G	M8 X 40 X 3
WASQ10403G	M10 X 40 X 3
WASQ10503G	M10 X 50 X 3
WASQ12403G	M12 X 40 X 3
WASQ12503G	M12 X 50 X 3
WASQ12506G	M12 X 50 X 6
WASQ16503G	M16 X 50 X 3
WASQ16506G	M16 X 50 X 6
WASQ16606G	M16 X 60 X 6
WASQ16806G	M16 X 80 X 6
WASQ20503G	M20 X 50 X 3
WASQ20506G	M20 X 50 X 6
WASQ20606G	M20 X 60 X 6
WASQ20806G	M20 X 80 X 6
WASQ24503G	M24 X 50 X 3
WASQ24506G	M24 X 50 X 6
WASQ24806G	M24 X 80 X 6
WASQ2410010G	M24 X 100 X 10



### Load Indicator Washers

#### GALVANISED

CODE	SIZE
WAHSLI16G	M16
WAHSLI20G	M20
WAHSLI24G	M24
WAHSLI30G	M30
WAHSLI36G	M36



## Washers

## Spring Washers

## ZINC

CODE	SIZE
WAS06Z	M6
WAS08Z	M8
WAS10Z	M10
WAS12Z	M12
WAS14Z	M14
WAS16Z	M16
WAS20Z	M20
WAS22Z	M22
WAS24Z	M24
WAS30Z	M30



## Spring Washers

## GALVANISED

CODE	SIZE
WAS08G	M8
WAS10G	M10
WAS12G	M12
WAS16G	M16
WAS20G	M20
WAS24G	M24
WAS30G	M30



## Threaded Rod Connector DIN975

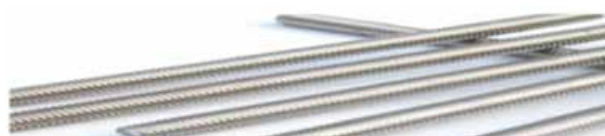
Hi Tensile Zinc Yellow 8.8		
CODE	DIAMETER	ZINC
TRC06Z	M6	•
TRC08Z	M8	•
TRC10Z	M10	•
TRC12Z	M12	•
TRC16Z	M16	•

## Threaded Rod DIN975

When ordering, please replace the X with the length of the rod.

Mild Steel Zinc 4.8				
CODE	DIAMETER	LENGTH		
		1.0	2.0	3.0
TR05XZ	M5	•		
TR06XZ	M6	•	•	
TR08XZ	M8	•	•	
TR10XZ	M10	•	•	•
TR12XZ	M12	•	•	•
TR14XZ	M14	•		
TR16XZ	M16	•	•	•
TR20XZ	M20	•	•	•
TR24XZ	M24	•		
TR30XZ	M30	•		
TR36XZ	M36	•		

High Tensile Metric Fine Zinc Yellow 8.8		
CODE	DIAMETER	1.0
TRHTF1012ZC	M10 (1.25P)	•
TRHTF1212ZC	M12 (1.25P)	•
TRHTF1215ZC	M12 (1.50P)	•
TRHTF1415ZC	M14 (1.50P)	•
TRHTF1615ZC	M16 (1.50P)	•
TRHTF1815ZC	M18 (1.50P)	•
TRHTF2015ZC	M20 (1.50P)	•
TRHTF2215ZC	M22 (1.50P)	•
TRHTF2420ZC	M24 (2.00P)	•
TRHTF2720ZC	M27 (2.00P)	•
TRHTF3020ZC	M30 (2.00P)	•



## Threaded Rod DIN975

When ordering, please replace the X with the length of the rod.

### Hi Tensile Zinc Yellow 8.8

CODE	DIAMETER	1.0
TRHT05Z	M5	•
TRHT06Z	M6	•
TRHT08Z	M8	•
TRHT10Z	M10	•
TRHT12Z	M12	•
TRHT14Z	M14	•
TRHT16Z	M16	•
TRHT18Z	M18	•
TRHT20Z	M20	•
TRHT24Z	M24	•
TRHT30Z	M30	•
TRHT36Z	M36	•

### Hi Tensile UNC Zinc Yellow Grade 5

CODE	DIAMETER	2FT / 610MM
TRHTUNC1/4Z	1/4	•
TRHTUNC5/16Z	5/16	•
TRHTUNC3/8Z	3/8	•
TRHTUNC7/16Z	7/16	•
TRHTUNC1/2Z	1/2	•
TRHTUNC5/8Z	5/8	•
TRHTUNC3/4Z	3/4	•
TRHTUNC1Z	1"	•
TRHTUNC11/4Z	1.1/4	•
TRHTUNC11/2Z	1.1/2	•

### Mild Steel Galvanised 4.8

CODE	DIAMETER	LENGTH		
		1.0	2.0	3.0
TR08XG	M8	•		
TR10XG	M10	•	•	•
TR12XG	M12	•	•	•
TR16XG	M16	•	•	•
TR20XG	M20	•	•	•
TR24XG	M24	•		•
TR30XG	M30	•		•
TR36XG	M36	•		•

### Hi Tensile UNF Zinc Yellow Grade 5

CODE	DIAMETER	2FT / 610MM
TRHTUNF1/4Z	1/4	•
TRHTUNF5/16Z	5/16	•
TRHTUNF3/8Z	3/8	•
TRHTUNF7/16Z	7/16	•
TRHTUNF1/2Z	1/2	•
TRHTUNF5/8Z	5/8	•
TRHTUNF3/4Z	3/4	•
TRHTUNF1(12)	1" (12TPI)	•
TRHTUNF1(14)	1" (14TPI)	•
TRHTUNF11/4Z	1.1/4	•
TRHTUNF11/2Z	1.1/2	•

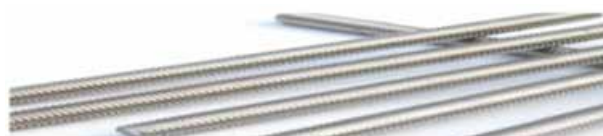


## Threaded Rod DIN975

When ordering, please replace the X with the length of the rod.

Hi Tensile Galvanised 8.8				
CODE	DIAMETER	LENGTH		
		1.0	2.0	3.0
TR10XG	M10	•		
TR12XG	M12	•	•	•
TR16XG	M16	•	•	•
TR18XG	M18	•		
TR20XG	M20	•	•	•
TR22XG	M22	•		
TR24XG	M24	•	•	•
TR27XG	M27	•		
TR30XG	M30	•	•	•
TR33XG	M33	•		•
TR36XG	M36	•	•	•
TR39XG	M39	•		•
TR42XG	M42	•		•
TR48XG	M48	•		•
TR52XG	M52	•		•

Stainless Steel T316				
CODE	DIAMETER	LENGTH		
		1.0	2.0	3.0
TRS606X	M6	•		
TRS608X	M8	•		
TRS610X	M10	•		
TRS612X	M12	•		•
TRS616X	M16	•		•
TRS620X	M20	•		•
TRS624X	M24	•		•
TRS630X	M30	•		•
TRS636X	M36	•		•



## Stud Bolt Assemblies

**Bolting Requirement for Raised Face Flanges.** Sizes DN15 to 600 conforming to ANSI B16.5 and DN 750 & 900 to BS 3293.

When ordering, please replace the XX in the code with the CODE number and replace the YYY with the length required.

For alternative lengths, please consult with us.

Please note all codes are for gold passivated. If black is required, please specify the code without GP on the end.

(Class 4.8) Hex Bolts & Nuts to AS:1110, AS1112										
CODE	NOMINAL FLANGE SIZE		PN20 (CLASS 150)				PN50 (CLASS 300)			
	DIA	PIPE SIZE	NUMBER OF STUD BOLTS	DIAMETER		LENGTH	NUMBER OF STUD BOLTS	DIAMETER		LENGTH
	MM	INCHES		CODE (XX)	INCHES	MM (YYY)		CODE(XX)	INCHES	MM (YYY)
STXXXXGP	15	1/2	4	12	1/2	060	4	12	1/2	065
STXXXXGP	20	3/4	4	12	1/2	065	4	16	5/8	075
STXXXXGP	25	1	4	12	1/2	065	4	16	5/8	080
STXXXXGP	32	1.1/4	4	12	1/2	070	4	16	5/8	080
STXXXXGP	40	1.1/2	4	12	1/2	070	4	20	3/4	090
STXXXXGP	50	2	4	16	5/8	080	8	16	5/8	090
STXXXXGP	65	2.1/2	4	16	5/8	090	8	20	3/4	100
STXXXXGP	80	3	4	16	5/8	090	8	20	3/4	110
STXXXXGP	90	3.1/2	8	16	5/8	090	8	20	3/4	110
STXXXXGP	100	4	8	16	5/8	090	8	20	3/4	110
STXXXXGP	125	5	8	20	3/4	090	8	20	3/4	120
STXXXXGP	150	6	8	20	3/4	100	12	20	3/4	125
STXXXXGP	200	8	8	22	7/8	110	12	22	7/8	140
STXXXXGP	250	10	12	22	7/8	115	16	24	1	155
STXXXXGP	300	12	12	22	7/8	120	16	30	1.1/8	170
STXXXXGP	350	14	12	24	1	130	20	30	1.1/8	175
STXXXXGP	400	16	16	24	1	135	20	33	1.1/4	190
STXXXXGP	450	18	16	30	1.1/8	150	24	33	1.1/4	195
STXXXXGP	500	20	20	30	1.1/8	160	24	33	1.1/4	205
STXXXXGP	600	24	20	33	1.1/4	175	24	40	1.1/2	230
STXXXXGP	750	30	28	33	1.1/4	190	–	–	–	–
STXXXXGP	900	36	32	40	1.1/2	215	32	50	2	325

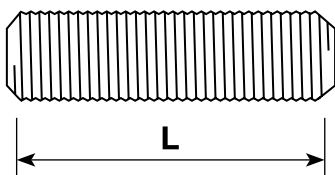
### Note

1. Raised Face height of 2mm for PN20 & 50 and 7mm for PN100 and above is included in bolt length.
2. Studbolt lengths are exclusive of point lengths (length of full thread).
3. Bolt lengths are rounded to the nearest 5mm.

**Bolt Diameters** are given in inches.

**Stud Bolt Lengths (L)** are given in millimetres. Stud Bolt lengths do not include the height of points.

**Heavy Hex Bolt Lengths (L)** are given in millimetres and include the height of point.



\* For other sizes or lengths, please contact our sales team.



## Stud Bolt Assemblies

**Bolting Requirement for Raised Face Flanges.** Sizes DN15 to 600 conforming to ANSI B16.5 and DN 750 & 900 to BS 3293.

When ordering, please replace the XX in the code with the CODE number and replace the YYY with the length required.

For alternative lengths, please consult with us.

Please note all codes are for gold passivated. If black is required, please specify the code without GP on the end.

(Class 4.8) Hex Bolts & Nuts to AS:1110, AS1112										
CODE	NOMINAL FLANGE SIZE		PN100 (CLASS 600)				PN150 (CLASS 900)			
	DIA	PIPE SIZE	NUMBER OF STUD BOLTS	DIA		LENGTH	NUMBER OF STUD BOLTS	DIA		LENGTH
	MM	INCHES		CODE (XX)	INCHES	MM (YYY)		CODE(XX)	INCHES	MM (YYY)
STXXYYY	15	1/2	4	12	1/2	080	4	20	3/4	105
STXXYYY	20	3/4	4	16	5/8	090	4	20	3/4	115
STXXYYY	25	1	4	16	5/8	090	4	22	7/8	125
STXXYYY	32	1.1/4	4	16	5/8	100	4	22	7/8	125
STXXYYY	40	1.1/2	4	20	3/4	105	4	24	1	140
STXXYYY	50	2	8	16	5/8	105	8	22	7/8	145
STXXYYY	65	2.1/2	8	20	3/4	120	8	24	1	160
STXXYYY	80	3	8	20	3/4	125	8	22	7/8	145
STXXYYY	90	3.1/2	8	22	7/8	140	–	–	–	–
STXXYYY	100	4	8	22	7/8	145	8	30	1.1/8	170
STXXYYY	125	5	8	24	1	165	8	33	1.1/4	190
STXXYYY	150	6	8	24	1	170	12	30	1.1/8	195
STXXYYY	200	8	8	30	1.1/8	195	12	35	1.3/8	220
STXXYYY	250	10	12	33	1.1/4	216	16	35	1.3/8	235
STXXYYY	300	12	12	33	1.1/4	220	16	35	1.3/8	255
STXXYYY	350	14	12	35	1.3/8	235	20	40	1.1/2	275
STXXYYY	400	16	16	40	1.1/2	255	–	–	–	–
STXXYYY	450	18	–	–	–	–	–	–	–	–
STXXYYY	500	20	–	–	–	–	24	50	2	345
STXXYYY	600	24	–	–	–	–	24	60	2.1/2	435
STXXYYY	750	30	28	50	2	355	–	–	–	–
STXXYYY	900	36	32	60	2.1/2	400	–	–	–	–

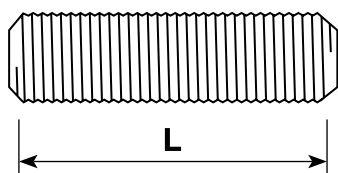
### Note

1. Raised Face height of 2mm for PN20 & 50 and 7mm for PN100 and above is included in bolt length.
2. Studbolt lengths are exclusive of point lengths (length of full thread).
3. Bolt lengths are rounded to the nearest 5mm.

**Bolt Diameters** are given in inches.

**Stud Bolt Lengths (L)** are given in millimetres. Stud Bolt lengths do not include the height of points.

**Heavy Hex Bolt Lengths (L)** are given in millimetres and include the height of point.



## 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 (Fleixble 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".

Design Layout		
ITEM #	PART	MATERIAL
1	Body	EPDM. Other elastomers also available
2	Reinforcement	Nylon Cord
3	Wire	Hard Steel Wire
4	Flange	Mild Steel. Various galvanized drillings available.

## 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".

Design Layout		
ITEM #	PART	MATERIAL
1	Body	EPDM. Other elastomers also available
2	Reinforcement	Nylon Cord
3	Wire	Hard Steel Wire
4	Flange	Mild Steel. Various galvanized drillings available.

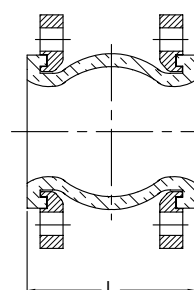
## Double Sphere Threaded Unions Style 30 without Root Ring

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

Single Sphere Expansion Joint (Table E)

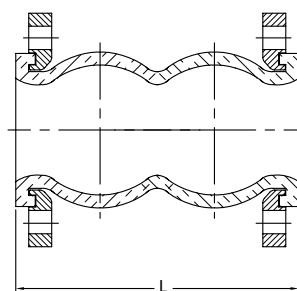
CODE	CODE	DIAM.D (mm)	L (mm)	ALLOWABLE MOVEMENT (mm)				OPERATING CONDITION		
				AXIAL COMPRESSION	AXIAL ELONGATION	TRANSVERSE DEFLECTION	ANGULAR DEFLECTION	MAX. PRESSURE KG/CM <sup>2</sup> (PSIG)	MAX. TEMPERATURE C (F)	VACUUM RATING MM HG(IN.)
FLFLEX/050TE		50	105	8	6	8	15	10(150)	104(220)	660(26.40)
FLFLEX/065TE		65	115	12	6	10	15	10(150)	104(220)	660(26.40)
FLFLEX/080TE	FLFLEX/080TE16	80	135	12	10	10	15	10(150)	104(220)	660(26.40)
FLFLEX/100TE	FLFLEX/100TE16	100	150	18	10	12	15	10(150)	104(220)	660(26.40)
FLFLEX/125TE		125	165	18	10	12	15	10(150)	104(220)	660(26.40)
FLFLEX/150TE	FLFLEX/150TE16	150	180	18	14	12	15	10(150)	104(220)	660(26.40)
FLFLEX/200TE	FLFLEX/200TE16	200	210	25	14	22	15	10(150)	104(220)	660(26.40)
FLFLEX/250TE		250	230	25	14	22	15	10(150)	104(220)	660(26.40)
FLFLEX/300TE		300	230	25	16	22	15	10(150)	104(220)	660(26.40)



# Double Sphere Expansion Joint

Double Sphere Expansion Joint (Table E)

CODE	DIAM.D (mm)	L (mm)	ALLOWABLE MOVEMENT (mm)				OPERATING CONDITION		
			AXIAL COMPRESSION	AXIAL ELONGATION	TRANSVERSE DEFLECTION	ANGULAR DEFLECTION	MAX. PRESSURE KG/CM <sup>2</sup> (PSIG)	MAX. TEMPERATURE C (F)	VACUUM RATING MM HG(IN.)
FLFLEX/080TED	80	175	50	30	35	40	10(150)	104(220)	400(16)
FLFLEX/100TED	100	225	57	35	40	35	10(150)	104(220)	400(16)
FLFLEX/150TED	150	225	57	35	40	35	10(150)	104(220)	400(16)
FLFLEX/200TED	200	325	63	35	45	35	10(150)	104(220)	400(16)
FLFLEX/250TED	250	325	63	35	45	35	10(150)	104(220)	400(16)
FLFLEX/300TED	300	325	63	35	45	35	10(150)	104(220)	400(16)



# RUBBER BELLOWS

## Double Sphere Threaded Unions

Double Sphere Threaded Unions									
CODE	DIAM.D (mm)	L (mm)	ALLOWABLE MOVEMENT (mm)				OPERATING CONDITION		
			AXIAL COMPRESSION	AXIAL ELONGATION	TRANSVERSE DEFLECTION	ANGULAR DEFLECTION	MAX. PRESSURE KG/CM <sup>2</sup> (PSIG)	MAX. TEMPERATURE C (F)	VACUUM RATING MM HG(IN.)
FLFLEX/025BSP	25	200	22	6	22	45	10(150)	115(240)	405(16.20)
FLFLEX/032BSP	32	200	22	6	22	45	10(150)	115(240)	405(16.20)
FLFLEX/040BSP	40	200	22	6	22	45	10(150)	115(240)	405(16.20)
FLFLEX/050BSP	50	200	22	6	22	45	10(150)	115(240)	405(16.20)



# High Pressure Fittings

## Scope On Our Products

TYPE :	ELBOW, M/F ELBOW, TEE, COUPLING, HALF COUPLING, CAP, PLUG, BUSHING, UNION, REDUCER INSERT, PIPE NIPPLE, OUTLETS ETC.		
SIZE:	NPS 1/8" ~ 4"(6mm ~ 100mm)		
RATING:	THREADED END – 3000lbs. SOCKET-WELD END – 3000lbs. BUTTWELD END – SCH80.		
SPECIFICATIONS:	A: DIN.SPEC: ASME B16.11-2001(REVISION OF ASME 16.11 -1996 79,83,95, 97 AND BOTHWELL SPEC		MSS – SP – JSB0203, B2316
	B: MATERIAL SPEC: 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)		

## British Standard Threads

### ALL MEASUREMENTS IN MM

NOMINAL BORE OF PIPE		APPROX OUTSIDE DIAMETER	NUMBER OF THREADS PER INCH	PITCH	DEPTH OF THREADS	DIAMETER AT GAUGE PLANE	LENGTH OF USEFUL THREAD
IMPERIAL	METRIC	A		P	H	B	E
1/8	6	10.16	28	0.907	0.581	9.72	6.5
1/4	8	13.66	19	1.337	0.856	13.15	9.7
3/8	10	17.17	19	1.337	0.856	16.66	10.1
1/2	15	21.51	14	1.814	1.162	20.95	13.2
3/4	20	27.00	14	1.814	1.162	26.44	14.5
1	25	33.93	11	2.309	1.479	33.24	16.8
1 1/4	32	42.59	11	2.309	1.479	41.91	19.1
1 1/2	40	48.48	11	2.309	1.479	47.80	19.1
2	50	60.47	11	2.309	1.479	59.61	23.4
2 1/2	65	76.09	11	2.309	1.479	75.18	26.7
3	80	88.87	11	2.309	1.479	87.88	29.8
4	100	114.14	11	2.309	1.479	113.03	35.8
5	125	139.65	11	2.309	1.479	138.43	40.1
6	150	165.12	11	2.309	1.479	163.83	40.1

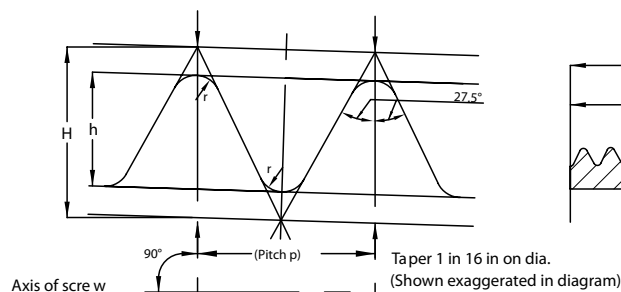


Fig. 2. (T apex)  
 $H = 0.960237 \times p$   
 $h = 0.640327 \times p$   
 $r = 0.137278 \times p$

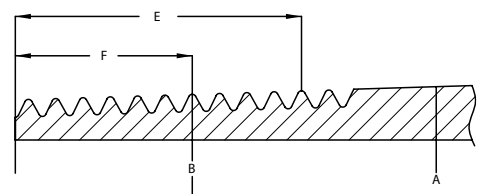


Fig. 3. (T apex)

## High Pressure Fittings (cont)

**American National Standard Taper Pipe Threads, Npt**

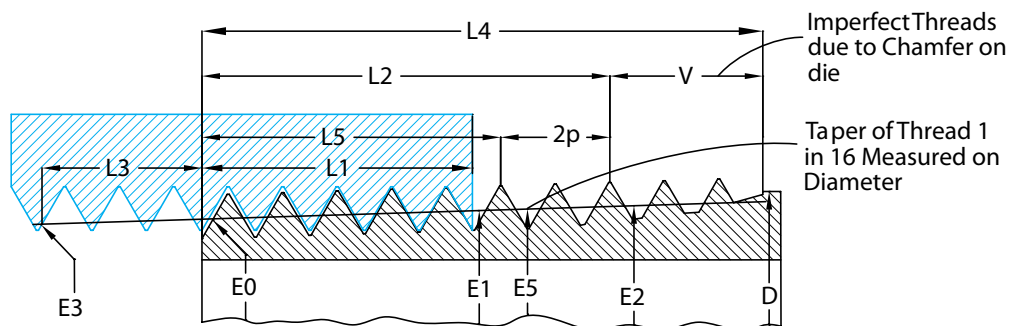
NOMINAL BORE OF PIPE	OUTSIDE DIAMETER OF PIPE	THREADS PER INCH	PITCH	PITCH DIAMETER AT BEGINNING OF EXTERNAL THREAD	HANDTIGHT ENGAGEMENT		EFFECTIVE THREAD, EXTERNAL	
					LENGTH A (INCH)	DIAMETER B	LENGTH C (INCH)	DIAMETER
					L1	E1	L2	E2
1/16	0.3125	27	0.03704	0.27118	0.160	0.28118	0.2611	0.28750
1/8	0.405	27	0.03704	0.36351	0.1615	0.37360	0.2639	0.38000
1/4	0.540	18	0.05556	0.47739	0.2278	0.49163	0.4018	0.50250
3/8	0.675	18	0.05556	0.61201	0.240	0.62701	0.4078	0.63750
1/2	0.840	14	0.07143	0.75843	0.320	0.77843	0.5337	0.79179
3/4	1.050	14	0.07143	0.96768	0.339	0.98887	0.5457	1.00179
1	1.315	11 1/2	0.08696	1.21363	0.400	1.23863	0.6828	1.25630
1 1/4	1.660	11 1/2	0.08696	1.55713	0.420	1.58338	0.7068	1.60130
1 1/2	1.900	11 1/2	0.08696	1.79609	0.420	1.82234	0.7235	1.84130
2	2.375	11 1/2	0.08696	2.26902	0.436	2.29627	0.7565	2.31630
2 1/2	2.875	8	0.12500	2.71953	0.682	2.76216	1.1375	2.79062
3	3.500	8	0.12500	3.34062	0.766	3.38850	1.2000	3.41562
3 1/2	4.000	8	0.12500	3.83750	0.821	3.88881	1.2500	3.91562
4	4.500	8	0.12500	4.33438	0.844	4.38712	1.3600	4.41562
5	5.563	8	0.12500	5.39073	0.937	5.44929	1.4063	5.47862
6	6.625	8	0.12500	6.44609	0.958	6.50597	1.5125	6.54062

Angle between sides of thread is 60 degrees. Taper of thread, on diameter is 3 1/2 inch per foot. Angle of taper with center line is 1°47'. The basic maximum thread height, h, of the truncated thread is 0.8 x pitch of thread. The crest and root are truncated a minimum of 0.033 x pitch for all pitches. For maximum depth of truncation, see Table 2.

<sup>A</sup> Also length of thin ring gauge and length from gauging notch to small end of plug gauge.

<sup>B</sup> Also pitch diameter at gauging notch (handtight plane).

<sup>C</sup> Also length of plug gauge.



## Specifications

Minimum Wall Thickness				
ACCORDING TO ASME B16.11				
NPS	SOCKETWELD FITTINGS		THREADED FITTINGS	
	SOCKET WALL THICKNESS (MIN)	BODY WALL THICKNESS (MIN)	BODY WALL THICKNESS (MIN)	CAP END WALL THICKNESS (MIN)
1/8	3.2	2.4	3.0	5.0
1/4	3.3	3.0	3.5	5.0
3/8	3.5	3.2	3.5	5.0
1/2	4.1	3.8	4.0	6.5
3/4	4.3	3.9	4.5	6.5
1	5.0	4.6	5.0	9.5
1 1/4	5.3	4.9	5.5	9.5
1 1/2	5.6	5.1	5.5	11.0
2	6.1	5.6	7.0	12.5
2 1/2	7.7	7.0	7.5	16.0
3	8.3	7.6	9.0	19.0
4	9.4	8.6	11.0	22.0

Dimensional Tolerance For Forged Socket Weld Fittings					
ACCORDING TO ASME B36.10					
ITEM	TYPE OF PIPE FITTING	1/8 TO 1/4	3/8 TO 3/4	1 TO 2	2 1/2 TO 4
Bore diameter of socket	ALL TYPES OF PIPE FITTINGS	0.3, -0			±0.4, -0
Bore diameter of fitting		±0.4			±0.8
Centrioity of bore		±0.8			
Centre to bottom of socket	45, 90D Elbow, Tee	±0.3	±1.5	±2	±2.5
Bottom to bottom of socket	Full coupling	±1.5	±3	±4	±5
Bottom of socket to opposite face	Half coupling	±0.8	±1.5	±2	±2.5

## Specifications (cont)

### Dimensions Of Seamless Steel Pipe

ACCORDING TO ASME B36.10

TOLERANCES			NPS	OUTSIDE DIAMETER			STEEL PIPE WALL THICKNESS							
A53 A106 O. D.	API 5L O.D.	A530 O.D.		AVG	MAX	MIN	S/10	S/30	S/40	STD	XS	S/80	S/160	XXS
+1/64 -1/32	+1/64 -1/32	+1/64 -1/32	1/8		10.7	9.5	1.2	1.5	1.7	S/40	S/80	2.4	3.2	4.8
			1/4	13.7	14.1	12.9	1.7	1.9	2.2	S/40	S/80	3.0	3.7	6.1
			3/8	17.1	17.5	16.3	1.7	1.9	2.3	S/40	S/80	3.2	4.0	6.4
			1/2	21.3	21.7	20.5	2.1	2.4	2.8	S/40	S/80	3.7	4.7	7.5
			3/4	26.7	27.1	25.9	2.1	2.4	2.9	S/40	S/80	3.9	5.5	7.8
			1	33.4	33.8	32.8	2.8	2.9	3.4	S/40	S/80	4.5	6.4	9.1
			1 1/4	42.2	42.6	41.4	2.8	3.0	3.6	S/40	S/80	4.9	6.4	9.7
			1 1/2	48.3	48.7	47.5	2.8	3.2	3.7	S/40	S/80	5.1	7.1	10.2
±1%	±.75%	+ 1/32 -1/32	2	60.3	60.9	59.7	2.8	3.2	3.9	S/40	S/80	5.5	8.7	11.1
			2 1/2	73.0	73.7	72.2	3.1	4.8	5.2	S/40	S/80	7.0	9.5	14.0
			3	88.9	89.8	88.0	3.1	4.8	5.5	S/40	S/80	7.6	11.1	15.2
			4	114.3	115.4	113.2	3.1	4.8	6.0	S/40	S/80	8.6	13.5	17.1

### Pressure Temperature Chart

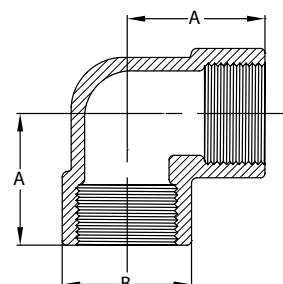
PSI (OF)

NOMINAL PRESSURE RATINGS	SCREWED AND SOCKET WELD FITTINGS																		
	-20 ~ 100°	150°	200°	250°	300°	350°	400°	450°	500°	550°	600°	650°	700°	750°	800°	850°	900°	950°	1000°
2000lb	2000	1970	1940	1915	1895	1875	1850	1810	1735	1640	1540	1430	1305	1180	1015	830	615	425	235
3000lb	3000	2955	2915	2875	2845	2810	2775	2715	2605	2460	2310	2150	1960	1775	1525	1250	925	640	355
6000lb	6000	5915	5830	5750	5690	5625	5550	5430	5210	4925	4620	4300	3920	3550	3050	2500	1855	1285	715



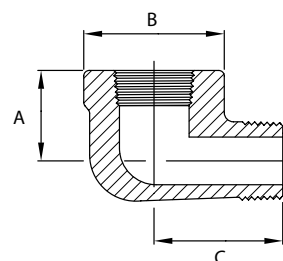
## High Pressure 3000lb Threaded 90 Degree Elbow

High Pressure ASME B16.11-2001 90 Degree Threaded Elbow					
CODE		METRIC SIZE	A	B	APPROX KG/PC
NPT	BSPT				
NP3E008		8	25	25	0.14
NP3E010		10	28	33	0.29
NP3E015	BP3E015	15	33	38	0.43
NP3E020	BP3E020	20	38	46	0.69
NP3E025	BP3E025	25	44	56	1.14
NP3E032	BP3E032	32	51	62	1.42
NP3E040	BP3E040	40	60	75	2.63
NP3E050	BP3E050	50	64	84	2.92
NP3E065		65	83	146	5.99
NP3E080		80	95	121	8.88

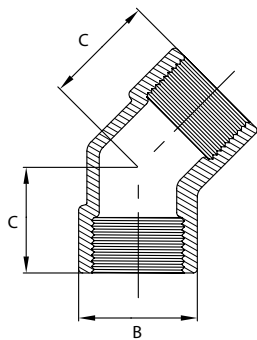


## High Pressure 3000lb Threaded Male-Female Elbow

High Pressure ASME B16.11-2001 Threaded Male-Female 90 Degree Elbow					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
NPT					
NP3EMF008	8	22	25	32	0.11
NP3EMF010	10	25	33	38	0.22
NP3EMF015	15	28	38	41	0.31
NP3EMF020	20	35	46	48	0.53
NP3EMF025	25	44	56	57	1.02
NP3EMF032	32	51	62	66	1.13
NP3EMF040	40	54	75	71	2.01
NP3EMF050	50	64	84	84	2.91



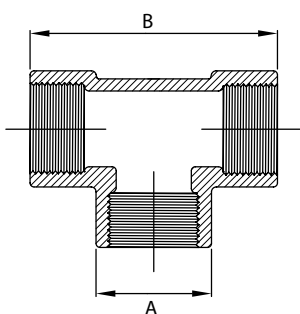
## High Pressure 3000lb Threaded 45 Degree Elbow



High Pressure ASME B16.11-2001 45 Degree Threaded Elbow

CODE NPT	METRIC SIZE	B	C	APPROX KG/PC
NP3E45008	8	25	19	0.12
NP3E45010	10	33	22	0.24
NP3E45015	15	38	25	0.34
NP3E45020	20	46	28	0.56
NP3E45025	25	56	33	0.94
NP3E45032	32	62	35	1.03
NP3E45040	40	75	35	2.05
NP3E45050	50	84	44	2.23

## High Pressure 3000lb Threaded Equal Tee

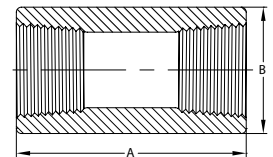


High Pressure ASME B16.11-2001 90 Degree Threaded Elbow

CODE		METRIC SIZE	A	B	APPROX KG/PC
NPT	BSPT				
NP3T008		8	25	50	0.20
NP3T010		10	33	56	0.38
NP3T015	BP3T015	15	38	66	0.56
NP3T020	BP3T020	20	46	76	0.92
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

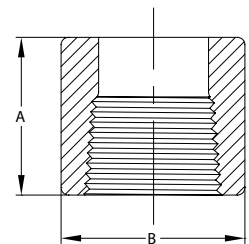
## High Pressure 3000lb Threaded Coupling

High Pressure ASME B16.11-2001 Threaded Coupling					
CODE		METRIC SIZE	A	B	APPROX KG/PC
NPT	BSPT				
NP3CF008	BP3CF008	8	35	19	0.04
NP3CF010	BP3CF010	10	38	22	0.06
NP3CF015	BP3CF015	15	48	28	0.13
NP3CF020	BP3CF020	20	51	35	0.19
NP3CF025	BP3CF025	25	60	44	0.45
NP3CF032	BP3CF032	32	67	57	0.81
NP3CF040	BP3CF040	40	79	64	1.07
NP3CF050	BP3CF050	50	86	76	1.40
NP3CF065		65	92	92	2.29
NP3CF080		80	108	108	3.38



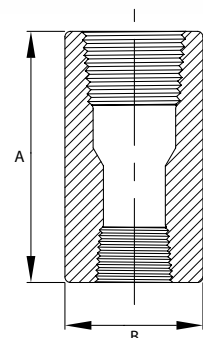
## High Pressure 3000lb Threaded Half Coupling

High Pressure ASME B16.11-2001 Threaded Half Coupling				
CODE	METRIC SIZE	A	B	APPROX KG/PC
NPT				
NP3CH010	10	19	22	0.03
NP3CH015	15	24	28	0.06
NP3CH020	20	26	35	0.10
NP3CH025	25	30	44	0.23
NP3CH032	32	34	57	0.34
NP3CH040	40	40	64	0.54
NP3CH050	50	43	76	0.70

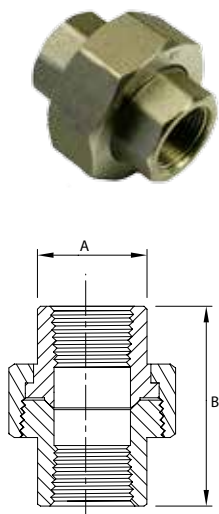


## High Pressure 3000lb Threaded Reducing Coupling

High Pressure ASME B16.11-2001 Threaded Reducing Coupling				
CODE	METRIC SIZE	A	B	APPROX KG/PC
NPT				
NP3CR025015	25 X 15	60	44	0.60
NP3CR025020	25 X 20	60	44	0.52
NP3CR032020	32 X 20	67	57	0.90
NP3CR032025	32 X 25	67	57	0.85
NP3CR040032	40 X 32	79	64	1.30
NP3CR050025	50 X 25	86	76	1.80
NP3CR050040	50 X 40	86	76	1.60

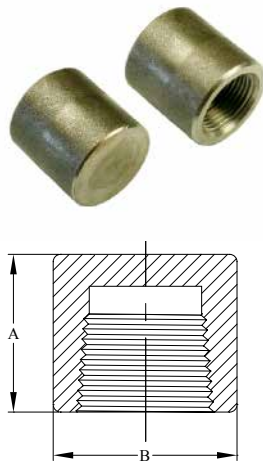


## High Pressure 3000lb Threaded Union



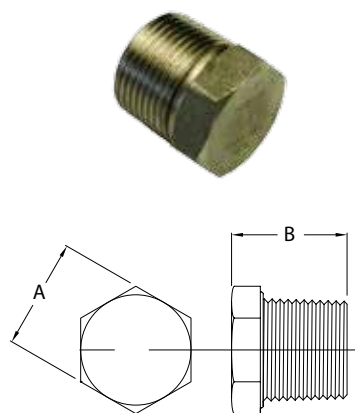
High Pressure ASME B16.11-2001 Threaded Union					
CODE		METRIC SIZE	A	B	APPROX KG/PC
NPT	BSPT				
NP3U008	BP3U008	8	19.00	36.00	0.28
NP3U010	BP3U010	10	22.90	41.00	0.24
NP3U015	BP3U015	15	27.70	49.00	0.34
NP3U020	BP3U020	20	33.50	56.70	0.48
NP3U025	BP3U025	25	41.40	62.65	0.77
NP3U032	BP3U032	32	50.50	71.00	1.03
NP3U040	BP3U040	40	57.20	77.28	1.63
NP3U050	BP3U050	50	70.10	86.50	2.43

## High Pressure 3000lb Threaded Cap



High Pressure ASME B16.11-2001 Threaded Cap				
CODE	METRIC SIZE	A	B	APPROX KG/PC
NPT				
NP3C015	15	32	28	0.11
NP3C020	20	37	35	0.18
NP3C025	25	41	44	0.37
NP3C032	32	44	57	0.62
NP3C040	40	44	64	0.72
NP3C050	50	48	76	1.09

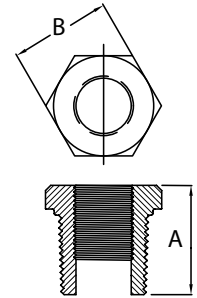
## High Pressure 3000lb Hexagon Plug



High Pressure ASME B16.11-2001 Plug				
CODE	METRIC SIZE	A	B	APPROX KG/PC
NPT				
NP3P008	8	16	20	0.03
NP3P010	10	18	21	0.05
NP3P015	15	22	22	0.07
NP3P020	20	27	26	0.14
NP3P025	25	36	29	0.22
NP3P032	32	46	35	0.44
NP3P040	40	50	37	0.59
NP3P050	50	65	40	1.03
NP3P065	65	75	46	1.80

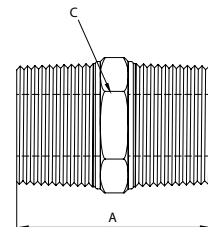
## High Pressure 3000lb Hexagon Head Bush

High Pressure ASME B16.11-2001 Hex Head Bushing					
CODE		METRIC SIZE	A	B	APPROX KG/PC
NPT	BSPT				
NP3B010008	BP3B010008	10 X 8	17	18	0.02
NP3B015008	BP3B015008	15 X 8	19	22	0.05
NP3B015010	BP3B015010	15 X 10	19	22	0.03
NP3B020008	BP3B020008	20 X 8	22	27	0.10
NP3B020015	BP3B020015	20 X 15	22	27	0.06
NP3B025015	BP3B025015	25 X 15	25	35	0.15
NP3B025020	BP3B025020	25 X 20	25	35	0.11
NP3B032015	BP3B032015	32 X 15	28	46	0.30
NP3B032020	BP3B032020	32 X 20	28	46	0.28
NP3B032025	BP3B032025	32 X 25	28	46	0.21
NP3B040015	BP3B040015	40 X 15	29	50	0.45
NP3B040020	BP3B040020	40 X 20	29	50	0.41
NP3B040025	BP3B040025	40 X 25	29	50	0.33
NP3B040032	BP3B040032	40 X 32	29	50	0.20
NP3B050015	BP3B050015	50 X 15	31	65	0.83
NP3B050020	BP3B050020	50 X 20	31	65	0.76
NP3B050025	BP3B050025	50 X 25	31	65	0.70
NP3B050032	BP3B050032	50 X 32	31	65	0.55
NP3B050040	BP3B050040	50 X 40	31	65	0.43
NP3B080050	BP3B080050	80 X 50	38	90	1.49

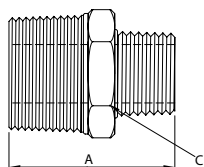


## High Pressure 3000lb Hexagon Nipple

High Pressure ASME B16.11-2001 Hexagon Nipples				
CODE	METRIC SIZE	A	C	APPROX KG/PC
NPT				
NP3N008	8	36	17	0.04
NP3N010	10	36	19	0.05
NP3N015	15	47	24	0.09
NP3N020	20	48	30	0.15
NP3N025	25	59	35	0.47
NP3N032	32	60	46	0.45
NP3N040	40	62	50	0.62
NP3N050	50	68	65	1.03

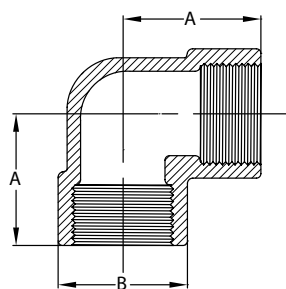


## High Pressure 3000lb Reducing Hexagon Nipple



High Pressure ASME B16.11-2001 Reducing Hexagon Nipples				
CODE	METRIC SIZE	A	C	APPROX KG/PC
NPT				
NP3NR015008	15 x 8	42	24	0.08
NP3NR015010	15 x 10	42	24	0.08
NP3NR020015	20 x 15	48	30	0.12
NP3NR025015	25 x 15	54	35	0.24
NP3NR025020	25 x 20	54	35	0.20
NP3NR032015	32 x 15	55	46	0.46
NP3NR032020	32 x 20	55	46	0.45
NP3NR032025	32 x 25	60	46	0.44
NP3NR040015	40 x 15	62	50	0.62
NP3NR040020	40 x 20	62	50	0.60
NP3NR040025	40 x 25	62	50	0.53
NP3NR040032	40 x 32	62	50	0.52
NP3NR050040	50 x 40	66	65	0.84

## High Pressure 6000lb Threaded 90 Degree Elbow

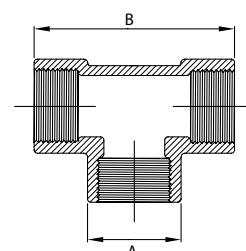


High Pressure ASME B16.11-2001 90 Degree Threaded Elbow				
CODE	METRIC SIZE	A	B	APPROX KG/PC
NPT				
NP6E015	15	38	46	0.80
NP6E020	20	44	56	1.31
NP6E025	25	51	62	1.61
NP6E040	40	64	84	3.79

## High Pressure 6000lb Threaded Equal Tee

High Pressure ASME B16.11-2001 Threaded Equal Tee

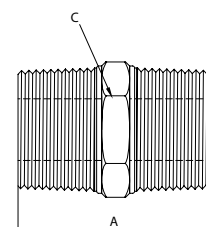
CODE	METRIC SIZE	A	B	APPROX KG/PC
NPT				
NP6T015	15	38	46	0.98
NP6T020	20	44	56	1.65
NP6T025	25	51	62	2.17
NP6T040	40	64	84	4.71



## High Pressure 6000lb Nipple

High Pressure ASME B16.11-2001 Nipple

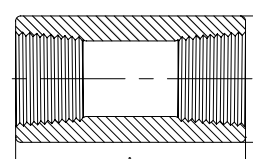
CODE	METRIC SIZE	A	W	APPROX KG/PC
NPT				
NP6N015	15	22	48	
NP6N020	20	27	52	
NP6N025	25	35	60	
NP6N032	32			
NP6N040	40	50	68	
NP6N050	50	62	71	



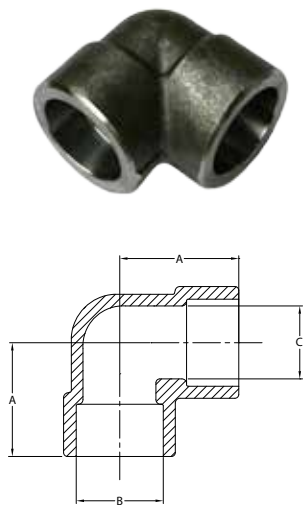
## High Pressure 6000lb Threaded Coupling

High Pressure ASME B16.11-2001 Threaded Coupling

CODE	METRIC SIZE	W	D	APPROX KG/PC
NPT				
NP6CF008	8	35	25	0.13
NP6CF015	15	48	38	0.34
NP6CF020	20	51	44	0.50
NP6CF025	25	60	57	0.87
NP6CF032	32	67	64	1.09
NP6CF040	40	79	76	1.94
NP6CF050	50	86	92	2.87

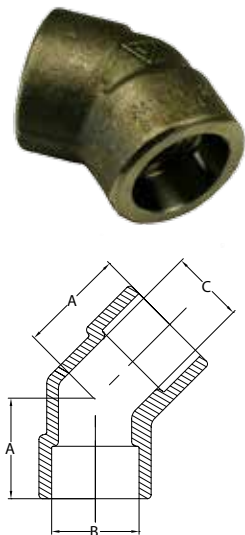


## High Pressure 3000lb Socket Weld 90 Degree Elbow



High Pressure ASME B16.11-2001 Socket Weld 90 Degree Elbow					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
SW3E008	8	20.5	14.6 14.2	10.0 8.5	0.08
SW3E010	10	23.0	18.0 17.6	13.3 11.8	0.12
SW3E015	15	25.0	22.0 21.8	16.6 15.0	0.22
SW3E020	20	31.5	27.6 27.2	21.7 20.2	0.33
SW3E025	25	35.0	34.3 33.9	27.4 25.9	0.53
SW3E032	32	39.5	43.1 42.7	35.8 34.3	0.84
SW3E040	40	44.5	49.2 48.8	41.6 40.1	1.08
SW3E050	50	54.0	61.7 61.2	53.3 51.7	1.68
SW3E065	65	57.0	74.4 73.9	64.2 61.2	3.20
SW3E080	80	73.0	90.3 89.8	79.4 76.4	5.38

## High Pressure 3000lb Socket Weld 45 Degree Elbow

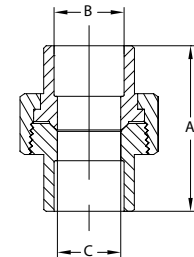


High Pressure ASME B16.11-2001 Socket Weld 45 Degree Elbow					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
SW3E45008	8	20.5	14.6 14.2	10.0 8.5	0.14
SW3E45010	10	23.0	18.0 17.6	13.3 11.8	0.12
SW3E45015	15	25.0	22.0 21.8	16.6 15.0	0.20
SW3E45020	20	31.5	27.6 27.2	21.7 20.2	0.28
SW3E45025	25	35.0	34.3 33.9	27.4 25.9	0.42
SW3E45032	32	39.5	43.1 42.7	35.8 34.3	0.69
SW3E45040	40	44.5	49.2 48.8	41.6 40.1	0.80
SW3E45050	50	54.0	61.7 61.2	53.3 51.7	1.35



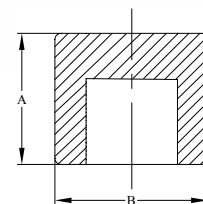
## High Pressure 3000lb Socket Weld Union

High Pressure ASME B16.11-2001 Socket Weld Union					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
SW34015	15	49.00	31.2	16.6 15.0	0.35
SW34020	20	56.70	37.1	21.7 20.2	0.49
SW34025	25	62.65	45.5	27.4 25.9	0.81
SW34032	32	71.50	54.9	35.8 34.3	1.10
SW34040	40	77.28	61.5	41.6 40.1	1.61
SW34050	50	86.50	75.2	53.3 51.7	2.16



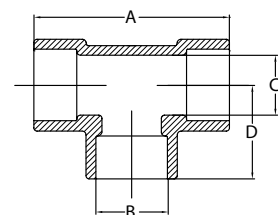
## High Pressure 3000lb Socket Weld Cap

High Pressure ASME B16.11-2001 Threaded Cap				
CODE	METRIC SIZE	A	B	APPROX KG/PC
NPT				
SW3C015	15	32	28	0.11
SW3C020	20	37	35	0.18
SW3C025	25	41	44	0.37
SW3C032	32	44	57	0.62
SW3C040	40	44	64	0.72
SW3C050	50	48	76	1.09

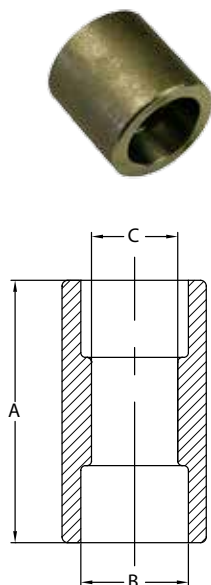


## High Pressure 3000lb Socket Weld Equal Tee

High Pressure ASME B16.11-2001 Socket Weld Equal Tee						
CODE	METRIC SIZE	A	B	C	D	APPROX KG/PC
SW3T008	8	41	14.6 14.2	10.0 8.5	20.5	0.09
SW3T010	10	46	18.0 17.6	13.3 11.8	23.0	0.15
SW3T015	15	50	22.0 21.8	16.6 15.0	25.0	0.29
SW3T020	20	63	27.6 27.2	21.7 20.2	31.5	0.42
SW3T025	25	70	34.3 33.9	27.4 25.9	35.0	0.65
SW3T032	32	79	43.1 42.7	35.8 34.3	39.5	1.04
SW3T040	40	89	49.2 48.8	41.6 40.1	44.5	1.35
SW3T050	50	108	61.7 61.2	53.3 51.7	54.0	2.04

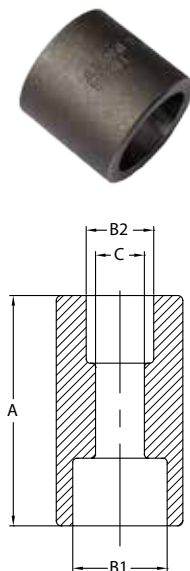


## High Pressure 3000lb Socket Weld Coupling



High Pressure ASME B16.11-2001 Socket Weld Coupling					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
SW3CF008	8	25.5	14.6 14.2	10.0 8.5	0.05
SW3CF010	10	25.5	18.0 17.6	13.3 11.8	0.07
SW3CF015	15	28.5	22.0 21.8	16.6 15.0	0.13
SW3CF020	20	34.5	27.6 27.2	21.7 20.2	0.17
SW3CF025	25	37.5	34.3 33.9	27.4 25.9	0.29
SW3CF032	32	37.5	43.1 42.7	35.8 34.3	0.45
SW3CF040	40	37.5	49.2 48.8	41.6 40.1	0.59
SW3CF050	50	51.0	61.7 61.2	53.3 51.7	0.86
SW3CF065	65	51.0	74.4 73.9	64.2 61.2	1.40
SW3CF080	80	51.0	90.3 89.8	79.4 76.4	1.78

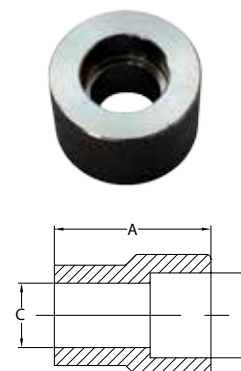
## High Pressure 3000lb Socket Weld Reducing Coupling



High Pressure ASME B16.11-2001 Socket Weld Reducing Coupling						
CODE	METRIC SIZE	A	B1	B2	C	APPROX KG/PC
SW3CR015010	15 X 10					0.13
SW3CR020015	20 X 15	34.5	27.4	21.8	14.1	0.20
SW3CR025015	25 X 15	37.5	34.2	21.8	14.1	0.38
SW3CR025020	25 X 20	37.5	34.2	27.4	18.9	0.34
SW3CR032015	32 X 15					0.49
SW3CR032020	32 X 20					0.49
SW3CR032025	32 X 25	37.5	42.9	34.2	24.7	0.52
SW3CR040015	40 X 15					
SW3CR040020	40 X 20					
SW3CR040025	40 X 25	37.5	48.8	34.2	24.7	0.78
SW3CR040032	40 X 32	37.5	48.8	42.9	32.4	0.68
SW3CR050015	50 X 15					
SW3CR050020	50 X 20					
SW3CR050025	50 X 25	51.0	61.1	34.2	24.7	1.14
SW3CR050032	50 X 32					
SW3CR050040	50 X 40	51.0	61.1	48.8	38.3	0.99

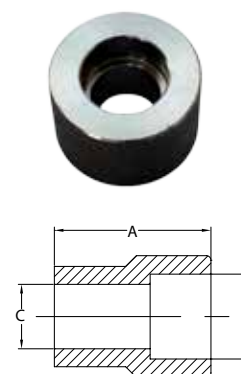
## High Pressure 3000lb Reducing Insert

High Pressure ASME B16.11-2001 Reducer Inserts					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
SW3IN015008	15 X 8				
SW3IN020015	20 X 15	32.0	22.0	16	0.10
SW3IN025008	25 X 8				
SW3IN025010	25 X 10				
SW3IN025015	25 X 15	26.0	22.0	16	0.15
SW3IN025020	25 X 20	37.0	27.0	21	0.16
SW3IN032015	32 X 15				
SW3IN032020	32 X 20	31.0	27.0	21	0.17
SW3IN032025	32 X 25	38.0	34.0	27	0.24
SW3IN040015	40 X 15				
SW3IN040020	40 X 20				
SW3IN040025	40 X 25	31.0	34.0	27	0.29
SW3IN040032	40 X 32	41.0	43.0	25	0.31
SW3IN050015	50 X 15				
SW3IN050020	50 X 20				
SW3IN050025	50 X 25	35.0	34.0	27	0.34
SW3IN050032	50 X 32	34.0	43.0	35	0.35
SW3IN050040	50 X 40	45.0	49.0	41	0.36

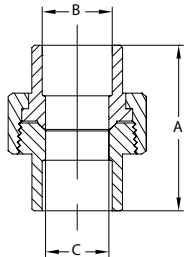


## High Pressure 6000lb Reducing Insert

High Pressure ASME B16.11-2001 Socket Weld Reducing Coupling						
CODE	METRIC SIZE	A	B	C	D	APPROX KG/PC
SW6E015	15	19.0	21.80	5.97 5.18	11.80	0.40
SW6E020	20	22.5	27.20	6.96 6.04	15.60	0.73
SW6E025	25	27.0	33.90	7.92 6.93	20.70	1.17
SW6E040	40	38.0	48.80	8.92 7.80	34.00	2.79

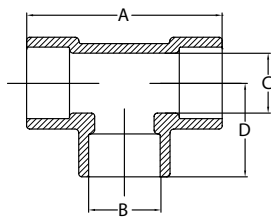


## High Pressure 6000lb Socket Weld Union



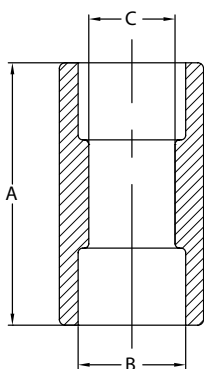
High Pressure ASME B16.11-2001 Socket Weld Union					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
SW64040	40				3.12
SW64050	50				5.2

## High Pressure 6000lb Socket Weld Equal Tee



High Pressure ASME B16.11-2001 Socket Weld Equal Tee						
CODE	METRIC SIZE	A	B	C	D	APPROX KG/PC
SW6T015	15	19	21.80	11.80	5.97 5.18	0.56
SW6T020	20	22.5	27.20	15.60	6.96 6.04	0.94
SW6T025	25	27	33.90	20.70	7.92 6.93	1.49
SW6T040	40	38	48.80	34.00	8.92 7.80	3.37
SW6T050	50	41	61.20	42.90	10.92 9.50	3.95

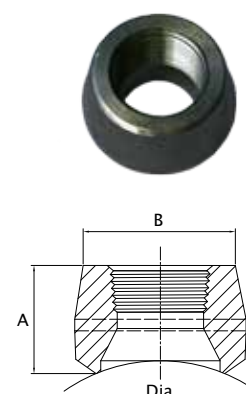
## High Pressure 6000lb Socket Weld Coupling



High Pressure ASME B16.11-2001 Socket Weld Coupling					
CODE	METRIC SIZE	A	B	C	APPROX KG/PC
SW6CF015	15	28.5	21.8	11.80	0.20
SW6CF020	20	34.5	27.2	15.60	0.27
SW6CF025	25	37.5	33.9	20.70	0.44
SW6CF032	32	37.5	42.7	29.50	0.60
SW6CF040	40	37.5	48.8	34.00	1.11
SW6CF050	50	51.0	61.2	42.90	1.62

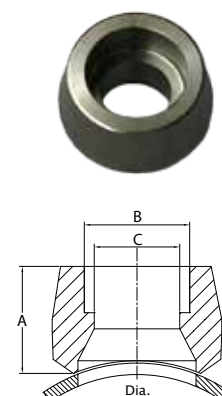
## High Pressure 3000LB Branch Outlet with Threaded End

High Pressure ASME B31.1 & MSS-SP97 Branch Outlet with Threaded End				
CODE		METRIC SIZE	A	B
NPT	BSPT			
TOLN008	TOLB008	8	19.0	22.0
	TOLB010	10	21.0	25.9
TOLN015	TOLB015	15	25.0	31.4
TOLN020	TOLB020	20	27.0	37.1
TOLN025	TOLB025	25	33.0	45.5
TOLN032	TOLB032	32	33.0	57.0
TOLN040	TOLB040	40	35.0	64.0
TOLN050	TOLB050	50	38.0	76.0



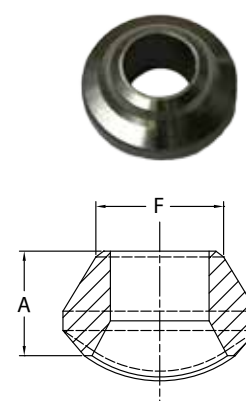
## High Pressure 3000LB Branch Outlet's Socket Weld End

High Pressure ASME B31.1 & MSS-SP97 Branch Outlet Socket Weld End			
CODE	METRIC SIZE	A	B
SOL015	15	25.7	31.4
SOL020	20	28.7	37.1
SOL025	25	35.1	45.5
SOL032	32	35.1	57.0
SOL040	40	36.6	64.0
SOL050	50	39.7	76.0



## High Pressure 3000LB Branch Outlet's Butt Weld End

High Pressure ASME B31.1 & MSS-SP97 Branch Outlet Butt Weld End			
CODE	METRIC SIZE	A	B
WOL015	15	19.0	21.3
WOL020	20	22.0	26.7
WOL025	25	27.0	33.4
WOL032	32	32.0	42.2
WOL040	40	33.0	48.3
WOL050	50	38.0	60.3
WOL065	65	41.0	73.0
WOL080	80	44.0	88.9
WOL100	100	51.00	114.30



## About Roll Groove

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.

### MATERIAL SPECIFICATIONS

<b>FITTINGS</b>	Ductile Iron conforming to ASTM A-536 Grade 65-45-12	
<b>COATINGS</b>	Hot Dipped Zinc galvanization	
<b>BOLTS AND NUTS</b>	Black or Zinc Plated at ASTM A-183 with a maximum tensile strength of 110,00PSI	Oval Neck bolts and heavy hexagon nuts
<b>GASKETS</b>	Elastomers with properties as designated by ASTM D-2000	

### STANDARD ROLL GROOVE SPECIFICATIONS FOR STEEL PIPE

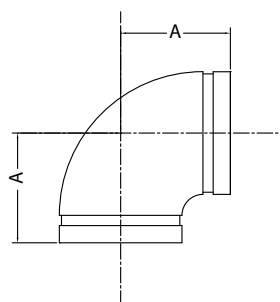
NOMINAL PIPE SIZE	PIPE OUTSIDE DIAMETRE (MM) 'F'			GASKET SEAT ±0.30 ±.770 (MM) 'A'	GROOVE WIDTH ± 0.30 ±.770 (MM) 'B'	GROOVE DIAMETRE 'C'		GROOVE DEPTH 'D'	MIN ALLOW WALL THICKNESS (MM) 'T'	MAX FLARE DIAMETRE (MM)
	ACTUAL	TOLERANCE (+)	TOLERANCE (-)			MM	MM			
25	33.700	+0.381	-0.381	15.875	7.137	30.226	-0.381			
32	42.400	+0.381	-0.381	15.875	7.137	38.989	-0.381	1.600	1.651	43.3
40	48.300	+0.381	-0.381	15.875	7.137	45.085	-0.381	1.600	1.651	49.4
50	60.300	+0.610	-0.610	15.875	8.738	57.150	-0.381	1.600	1.651	62.2
65	73.000	+0.737	-0.737	15.875	8.738	69.088	-0.457	1.981	2.108	75.2
80	88.900	+0.889	-0.737	15.875	8.738	84.938	-0.457	1.981	2.108	90.6
100	114.300	+1.143	-0.737	15.875	8.738	110.084	-0.508	2.108	2.108	116.2
125	141.300	+1.422	-0.737	15.875	8.738	137.033	-0.559	2.134	2.769	143.5
150	168.300	+1.600	-0.737	15.875	8.738	163.957	-0.559	2.159	2.769	170.7
200	219.100	+1.600	-0.737	19.050	11.913	214.401	-0.635	2.337	2.769	221.5

### SPECIFICATIONS OF ROLL GROOVE PRODUCTS

PRODUCT	WORKING PRESSURE		MAXIMUM TEMPERATURE
RIGID COUPLING	2.5MPa (300PSI)		100°C
90° ELBOW			
45° ELBOW			
EQUAL TEE			
REDUCING TEE			
CONCENTRIC REDUCER			
CAP			
MECHANICAL TEE			

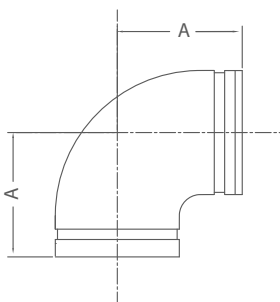
## Roll Groove 90 Deg Elbow Short Radius

ROLL GROOVE 90 DEG ELBOW SHORT RADIUS				
CODE		METRIC SIZE	A	APPROX KG/PC
PAINTED	GALVANISED			
RGE050S	RGEG050S	50	70	.578
RGE065S	RGEG065S	65	76	.912
RGE080S	RGEG080S	80	85.5	1.327
RGE100S	RGEG100S	100	101	1.832
RGE150S	RGEG150S	150	140	4.463
RGE200S	RGEG200S	200	165	8.466



## Roll Groove 90 Deg Elbow Long Radius

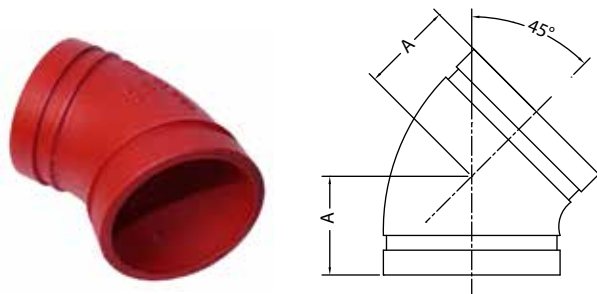
ROLL GROOVE 90 DEG ELBOW LONG RADIUS				
CODE		METRIC SIZE	A	APPROX KG/PC
PAINTED	GALVANISED			
RGEL025S	RGELG025S	25	57	.237
RGEL032S	RGELG032S	32	70	.414
RGEL040S	RGELG040S	40	70	.483
RGEL050S	RGELG050S	50	82.5	.652
RGEL065S	RGELG065S	65	95	1.153
RGEL080S	RGELG080S	80	108	1.607
RGEL100S	RGELG100S	100	127	2.661
RGEL125S	RGELG125S	125	140	4.091
RGEL150S	RGELG150S	150	165	5.992
RGEL200S	RGELG200S	200	197	11.118
RGEL250S	RGELG250S	250	229	24.580
RGEL300S	RGELG300S	300	254	35.523



## Roll Groove 45 Deg Elbow

**ROLL GROOVE 45 DEG ELBOW**

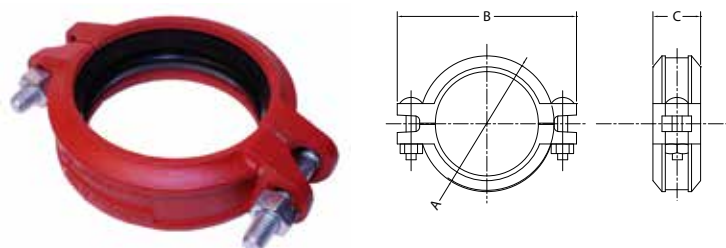
CODE		METRIC SIZE	A	APPROX KG/PC
PAINTED	GALVANISED			
RGE45040S	RGE45G040S	40	44.5	
RGE45050S	RGE45G050S	50	51	0.7
RGE45065S	RGE45G065S	65	57	2.0
RGE45080S	RGE45G080S	80	63.5	1.3
RGE45100S	RGE45G100S	100	76	2.0
RGE45125S	RGE45G125S	125	83.5	3.5
RGE45150S	RGE45G150S	150	89	4.4
RGE45200S	RGE45G200S	200	108	9.0
RGE45250S	RGE45G250S	250	120.5	15.5
RGE45300S	RGE45G300S	300	113	22.5



## Roll Groove Angle Rigid Coupling

**ROLL GROOVE RIGID COUPLING**

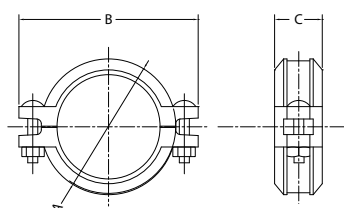
CODE		METRIC SIZE	A	B	C	BOLT SIZE	APPROX KG/PC
PAINTED	GALVANISED						
RGCZA025S	RGCZAG025S	25	59	100	44	M10 X 55	0.5
RGCZA032S	RGCZAG032S	32	66	105	45		0.6
RGCZA040S	RGCZAG040S	40	72	112	45		0.7
RGCZA050S	RGCZAG050S	50	85	130	45	M10 X70	0.8
RGCZA065S	RGCZAG065S	65	101	145	45		0.9
RGCZA080S	RGCZAG080S	80	115	168	46		1.2
RGCZA100S	RGCZAG100S	100	146	200	52		1.6
RGCZA125S	RGCZAG125S	125	170	235	52	M12 X 75	2.3
RGCZA150S	RGCZAG150S	150	198	262	52		2.8
RGCZA200S	RGCZAG200S	200	260	342	62		6.1
RGCZA250S	RGCZAG250S	250	327	420	63		
RGCZA300S	RGCZAG300S	300	370	465	63		
RGCZA350S	RGCZA G350S	350	415	510	72		





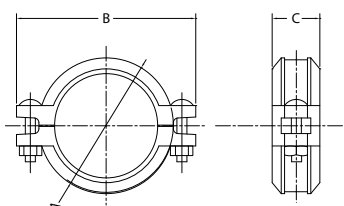
# Roll Groove Flexible Coupling

ROLL GROOVE FLEXIBLE COUPLING									
CODE		METRIC SIZE	ANGULAR MOVEMENT		DIMENSIONS			BOLT SIZE	APPROX KG/PC
PAINTED	GALVANISED		PER COUPLING DEGREE	PER PIPE	A	B	C		
RGCF025S	RGCFG025S	25	5°	96	55	92	42	M10 X 45	0.6
RGCF032S	RGCFG032S	32	4°	76	65	104	44	M10 X 55	0.7
RGCF040S	RGCFG040S	40	3°	66	70	110	44		0.7
RGCF050S	RGCFG050S	50	3°	53	83	124	44		0.8
RGCF065S	RGCFG065S	65	2°	44	100	145	45		0.9
RGCF080S	RGCFG080S	80	2°	36	115	160	45	M12 X 75	1.3
RGCF100S	RGCFG100S	100	3°	59	145	198	50		1.9
RGCF125S	RGCFG125S	125	2°	48	169	230	52	M16 X 90	2.3
RGCF150S	RGCFG150S	150	2°	40	196	260	52		3.0
RGCF200S	RGCFG200S	200	1°	29	258	350	60		5.8
RGCF250S	RGCFG250S	250	1°	23	337	406	65	M20 X 120	8.2
RGCF300S	RGCFG300S	300	1°	20	372	460	64		12.0
RGCF350S	RGCFG350S	350	1°	9	428	520	72		15.7



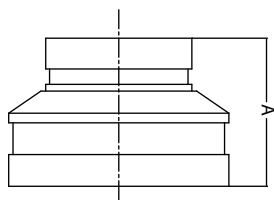
# Roll Groove Reducing Flexible Coupling

ROLL GROOVE REDUCING FLEXIBLE COUPLING									
CODE		METRIC SIZE	ANGULAR MOVEMENT		DIMENSIONS			BOLT SIZE	APPROX KG/PC
PAINTED	GALVANISED		PER COUPLING DEGREE	PER PIPE	A	B	C		
RGCR065050S	RGCRG065050S	65 X 50	2°	22	102	140	45	M10 X 55	1.2
RGCR080050S	RGCRG080050S	80 X 50	2°	18	115	168	46	M12 X 75	1.5
RGCR080065S	RGCRG080065S	80 X 65	2°	18	115	168	46		1.7
RGCR100050S	RGCRG100050S	100 X 50	2°	21	144	198	50		2.4
RGCR100065S	RGCRG100065S	100 X 65	2°	21	144	198	50		2.6
RGCR100080S	RGCRG100080S	100 X 80	2°	21	148	198	50	M16 X 90	2.4
RGCR150100S	RGCRG150100S	150 X 100	2°	20	197	260	51		4.5
RGCR168165S		168 X 165	2°	19	200	270	53		4.5
RGCR200150S		200 X 150	1°	15	257	335	60	M20 X 120	7.6



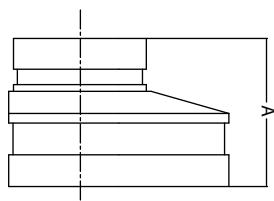
## Roll Groove Concentric Reducer

ROLL GROOVE CONCENTRIC REDUCER				
CODE		METRIC SIZE	A	APPROX KG/PC
PAINTED	GALVANISED			
RGRC065050S	RGRCG065050S	65 X 50	64	0.5
RGRC080050S	RGRCG080050S	80 X 50	64	0.5
RGRC080065S	RGRCG080065S	80 X 65	64	0.6
RGRC100050S	RGRCG100050S	100 X 50	76	1.1
RGRC100065S	RGRCG100065S	100 X 65	76	1.0
RGRC100080S	RGRCG100080S	100 X 80	76	1.0
RGRC150050S	RGRCG150050S	150 X 50	102	1.9
RGRC150080S	RGRCG150080S	150 X 80	102	2.0
RGRC150100S	RGRCG150100S	150 X 100	102	2.1
RGRC200150S	RGRCG200150S	200 X 150	127	5.2



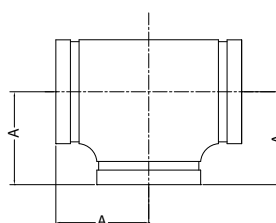
## Roll Groove Eccentric Reducer

ROLL GROOVE ECCENTRIC REDUCER			
CODE	METRIC SIZE	A	APPROX KG/PC
PAINTED			
RGRE065050S	65 X 50	89	0.7
RGRE080050S	80 X 50	89	1.0
RGRE080065S	80 X 65	89	1.0
RGRE100050S	100 X 50	102	1.4
RGRE100065S	100 X 65	102	1.5
RGRE100080S	100 X 80	102	1.6
RGRE150080S	150 X 80	102	3.5
RGRE150100S	150 X 100	102	3.8



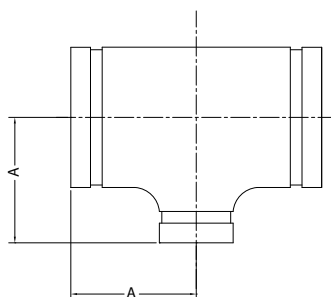
## Roll Groove Equal Tee STD

ROLL GROOVE EQUAL TEE STD				
CODE		METRIC SIZE	A	APPROX KG/PC
PAINTED	GALVANISED			
RGT040S	RGTG040S	40	70	0.9
RGT050S	RGTG050S	50	82.5	1.3
RGT065S	RGTG065S	65	95	2.2
RGT080S	RGTG080S	80	108	3.1
RGT100S	RGTG100S	100	127	4.6
RGT125S	RGTG125S	125	140	6.5
RGT150S	RGTG150S	150	165	10.0
RGT200S	RGTG200S	200	197	20.0
RGT250S	RGTG250S	250	229	31.0
RGT300S	RGTG300S	300	254	45.0



## Roll Groove Reducing Tee

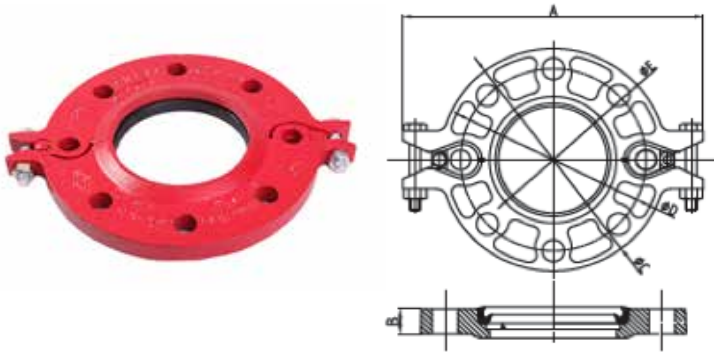
ROLL GROOVE REDUCING TEE				
CODE		METRIC SIZE	A	APPROX KG/PC
PAINTED	GALVANISED			
RGTR100050S	RGTRG100050S	100 X 50	101	4.2
RGTR100065S	RGTRG100065S	100 X 65	101	4.3
RGTR100080S	RGTRG100080S	100 X 80	101	4.5
	RGTRG250100S	250 X 100	229	28.5
	RGTRG300200S	300 X 200	254	38.0



## Roll Groove Flange

ROLL GROOVE FLANGE – AS2129 TABLE E

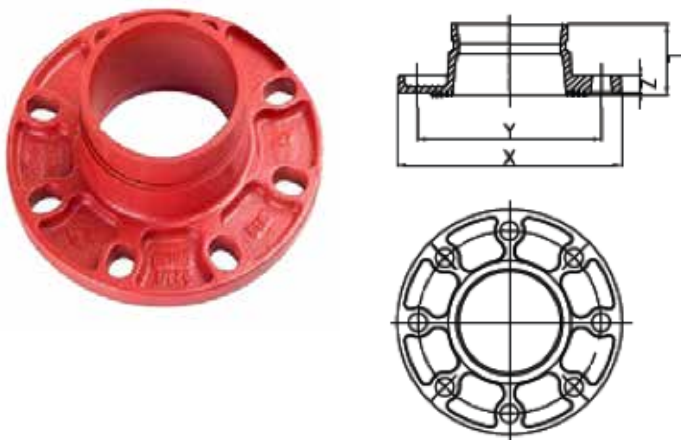
CODE		METRIC SIZE	DIMENSIONS			DIMENSIONS		BOLT		WORKING PRESSURE PSI
PAINTED	GALVANISED		A	B	C	D	E	SIZE	No.	
RGF050S		50	211	18.5	150	114	57.5	M16	4	300
RGF080S		80	241	18.5	185	146	85.5		4	300
RGF100S	RGFG100S	100	270	18.5	216	178	110.5		8	300
RGF150S	RGFG150S	150	346	21.5	280	235	160.8	M20	8	300
RGF200S	RGFG200S	200	408	24	335	292	214.9		8	300



## Roll Groove Flange Adaptor

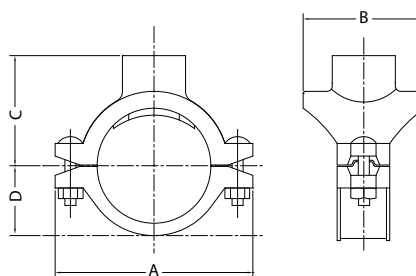
ROLL GROOVE FLANGE ADAPTOR – AS2129 TABLE E

CODE	NOMINAL SIZE	METRIC SIZE	DIMENSIONS				BOLT		APPROX. KG/PC
PAINTED			L	X	Y	Z	SIZE	No.	
RGFA065S	65	76.1	70	165	127	16	M16	4	2.9
RGFA080S	80	88.9	70	184	146	16		4	3.4
RGFA100S	100	114.3	70	216	178	16		8	4.8
RGFA150S	150	165.1	70	280	235	19	M20	8	6.3
RGFA200S	200	219.1	102	337	292	21		12	13.6



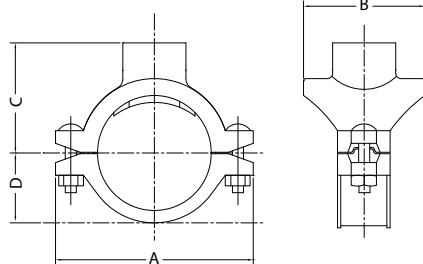
# Roll Groove Mechanical Tee Female Threaded Outlet

ROLL GROOVE MECHANICAL TEE FEMALE THREADED OUTLET									
CODE		METRIC SIZE	HOLE DIA.	DIMENSIONS				BOLT SIZE	APPROX KG/PC
PAINTED	GALVANISED			A	B	C	D		
RGTM050015S		50 X 15	38	116	68	60	39	M10 X 55	0.99
RGTM050025S	RGTMG050025S	50 X 25	38	116	68	60	39		1.09
RGTM050032S	RGTMG050032S	50 X 32	45	116	76	65	39		1.26
RGTM050040S	RGTMG050040S	50 X 40	45	116	76	65	39		1.37
RGTM065025S	RGTMG065025S	65 X 25	38	144	70	69	49	M12 X 60	1.30
RGTM065032S	RGTMG065032S	65 X 32	51	144	84.5	73	49		1.46
RGTM065040S	RGTMG065040S	65 X 40	51	144	84.4	73	49		1.56
RGTM080025S	RGTMG080025S	80 X 25	38	152	72.5	80	56.5	M12 X 75	1.53
RGTM080032S	RGTMG080032S	80 X 32	51	152	85.5	80	56.5		1.81
RGTM080040S	RGTMG080040S	80 X 40	51	152	85.5	80	56.5		1.88
RGTM080050S	RGTMG080050S	80 X 50	64	152	98	80	56.5		2.07
RGTM100025S	RGTMG100025S	100 X 25	38	188	78.5	93	70		1.70
RGTM100032S	RGTMG100032S	100 X 32	51	188	89	95	70		1.90
RGTM100040S	RGTMG100040S	100 X 40	51	188	89	97	70		2.04
RGTM100050S	RGTMG100050S	100 X 50	64	188	104.5	102	70		2.27
RGTM100065S	RGTMG100065S	100 X 65	70	188	104.5	102	70	M16 X 90	2.47
RGTM100080S	RGTMG100080S	100 X 80	89	188	124	102	70		2.91
RGTM150040S		150 X 40	51	244	93	118	97.5		2.99
RGTM150050S	RGTMG150050S	150 X 50	64	244	112.5	128.5	97.5		3.18
RGTM150065S	RGTMG150065S	150 X 65	70	244	112.5	128.5	97.5		3.58
RGTM150080S	RGTMG150080S	150 X 80	89	244	132	128.5	97.5	M20 X 120	4.10
RGTM150100S		150 X 100	114	244	154	135	97.5		4.76
RGTM200050S		200 X 50	64	322	117	160	125		6.20
RGTM200065S		200 X 65	70	322	118	158.5	125		6.20



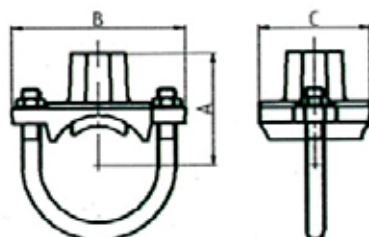
## Roll Groove Mechanical Tee Grooved End Outlet

ROLL GROOVE MECHANICAL TEE GROOVED END OUTLET								
CODE	METRIC SIZE	HOLE DIA.	DIMENSION				BOLT SIZE	APPROX KG/PC
PAINTED			A	B	C	D		
RGTMGR050040S	50 X 40	45	116	76	69.5	39	M10 X 55	1.18
RGTMGR080050S	80 X 50	64	152	98	84.5	56.5	M12 X 75	1.83
RGTMGR100032S	100 X 32	51	188	89	102	70		1.80
RGTMGR100040S	100 X 40	51	188	89	102	70		1.81
RGTMGR100050S	100 X 50	64	188	104.5	102	70		1.93
RGTMGR100065S	100 X 65	70	188	104.5	102	70		2.66
RGTMGR100080S	100 X 80	89	188	124	102	70		2.41
RGTMGR150050S	150 X 50	64	244	112.5	127	97.5	M16 X 90	2.91
RGTMGR150065S	150 X 65	70	244	112.5	127	97.5		3.38
RGTMGR150100S	150 X 100	114	244	154	135	97.5		4.05



## Roll Groove U-Bolt Mechanical Tee

ROLL GROOVE U-BOLT								
CODE		METRIC SIZE	HOLE DIA.	DIMENSIONS			BOLT SIZE U-BOLT	APPROX KG/PC
GALVANISED	PAINTED			A	B	C		
RGTMS032015S		32 X 15	30	54.5	88.9	57.2	10	0.40
RGTMS032025S	RGTMS032025S	32 X 25	30	57.7	88.9	57.2		0.40
RGTMS040015S		40 X 15	30	57.4	88.9	57.2		0.40
RGTMS040020S		40 X 20	30	57.4	88.9	57.2		0.40
RGTMS040025S		40 X 25	30	60.8	88.9	57.2		0.40
RGTMS050015S	RGTMS050015S	50 X 15	30	63.3	95.3	57.2		0.40
RGTMS050020S		50 X 20	30	63.3	95.3	57.2		0.40
RGTMS050025S		50 X 25	30	66.6	95.3	57.2		0.40
RGTMS065015S		65 X 15	30	69.9	108.0	57.2		0.40
RGTMS065020S		65 X 20	30	69.9	108.0	57.2		0.40
RGTMS065025S		65 X 25	30	73.2	108.0	57.2		0.50



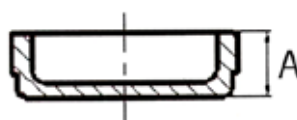
## Roll Groove Lubricant

SUNDRY PRODUCTS	
AAP CODE	DESCRIPTION
RGLUBE	Roll Groove Lubricant

Roll Groove Lubricant is recommended for proper gasket installation to prevent the gasket from being pinched. Apply a thin coat to the gasket exterior, gasket lips and/or housing interiors. Certified to ANSI/NSF 61.

## Roll Groove Cap

ROLL GROOVE CAP				
CODE		METRIC SIZE	A	APPROX KG/PC
PAINTED	GALVANISED			
RGCA040S	RGCAG040S	40	25	0.2
RGCA050S	RGCAG050S	50	25	0.3
RGCA065S	RGCAG065S	65	25	0.4
RGCA080S	RGCAG080S	80	25	0.7
RGCA100S	RGCAG100S	100	25	1.0
RGCA125S		125	25	1.7
RGCA150S	RGCAG150S	150	25	3.0
RGCA200S	RGCAG200S	200	30	5.5
RGCA250S	RGCAG250S	250	32	7.0
RGCA300S		300	32	10.0





### FORGED DOUBLE COUPLER

PRODUCT CODE: SCADCLG

A one piece load bearing fitting with captive Tee bolts used for connecting two scaffold tubes at right angles. This fitting is manufactured by hot forging process and is a long life product for rugged applications.



### FORGED SWIVEL COUPLER

PRODUCT CODE: SCASWLG

A two piece rotating fitting with captive Tee bolts used for connecting two scaffold tubes at any angle. This is also a load bearing fitting used for tying and bracing applications.



### PUTLOG COUPLER/SINGLE CLAMP

PRODUCT CODE: SCAPWC

A one piece coupler connecting putlogs and transom tubes to ledger tube and guardrails to standards. It is a non load bearing fitting used to complement the double couplers.



### SLEEVE COUPLER

PRODUCT CODE: SCAPSL

A fitting specially designed for external joining of two tubes end to end. Recommended for use on Ledger and Bracing Members.



**BEAM CLAMP****PRODUCT CODE: SCABC**

This coupler grips any flange up to 45mm thickness. This coupler can accommodate the largest girders without compromising strength. They are manufactured to last long and fitted with top quality plated bolts and nuts and high tensile set screws. (It is designed for easy bolting at the girder leaving the erector with both hands free to tighten the tube.)

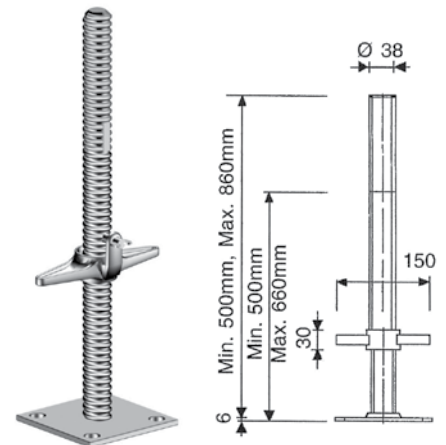
**DROPFORGED SPLIT JOINT PIN****PRODUCT CODE: SCASJP**

Designed for joining tubes end to end. It is an internal expanding type, operating against the inner walls of the tubes.

**ADJUSTABLE BASE JACKS****PRODUCT CODE: SCAHBJ**

Base Jacks are used to provide height adjustments and a flat bearing surface for distributing load from Standard and other load bearing scaffold tube and scaffold frames. BSL Jacks are also available with a swivel base plate.

With Robust Stub ACME thread, Base plate 0.150m x 0.150m x 0.006m, this base jack provides adjustment from 75mm to 660mm.



## Notes

[illegible]



# Fencing

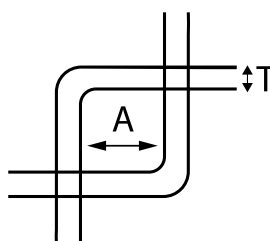
# Fence Panels

FENCE PANELS						
ASMUSS CODE	DESCRIPTION	WIDTH	HEIGHT	VERTICAL WIRE	HORIZONTAL WIRE	KG/PANEL
		W	H	A	B	
FEPB1063G	BALASTRADE PANEL	2410	1000	6.30mm at 75mm	6.30mm at 150mm	16.42
FEPP1363G	POOL PANEL	2410	1300	6.30mm at 75mm	6.30mm at 150mm	18.62
FEPM1375G	MOTORWAY PANEL	2410	1300	7.50mm at 75mm	7.50mm at 150mm	26.42
FEPK1563G	PLAY CENTRE PANEL	2410	1500	6.30mm at 75mm	6.30mm at 150mm	28.64
FEPK1575G	KINDY PANEL	2410	1500	7.50mm at 75mm	6.30mm at 150mm	30.2
FEPS1875G	SECURITY PANEL	2410	1800	7.50mm at 75mm	7.50mm at 150mm	36.0
FEPS2175G	SECURITY PANEL	2410	2115	7.50mm at 75mm	7.50mm at 150mm	41.0



## Chain Link Netting

GALVANISED CHAIN LINK NETTING					
ASMUSS CODE	DESCRIPTION	APERTURE	WIRE THICKNESS	WIDTH	MASS KG/M <sup>2</sup>
		A	T		
CLNG25200	25mm x 2.00mm CHAINLINK NETTING	25mm	2.00mm	Up to 4.6m	2.557
CLNG25250	25mm x 2.50mm CHAINLINK NETTING	25mm	2.50mm	Up to 4.6m	3.196
CLNG40250	40mm x 2.50mm CHAINLINK NETTING	40mm	2.50mm	Up to 4.6m	2.670
CLNG40315	40mm x 3.15mm CHAINLINK NETTING	40mm	3.15mm	Up to 4.6m	4.126
CLNG50200	50mm x 2.00mm CHAINLINK NETTING	50mm	2.00mm	Up to 4.6m	1.042
CLNG50250	50mm x 2.50mm CHAINLINK NETTING	50mm	2.50mm	Up to 4.6m	1.600
CLNG50315	50mm x 3.15mm CHAINLINK NETTING	50mm	3.15mm	Up to 4.6m	2.550
CLNG63250	63mm x 2.50mm CHAINLINK NETTING	63mm	2.50mm	Up to 4.6m	1.536
CLNG63315	63mm x 3.15mm CHAINLINK NETTING	63mm	3.15mm	Up to 4.6m	1.900
CLNG75250	75mm x 2.50mm CHAINLINK NETTING	75mm	2.50mm	Up to 4.6m	1.173
CLNG75315	75mm x 3.15mm CHAINLINK NETTING	75mm	3.15mm	Up to 4.6m	1.806



## PVC Coated Chain Link Netting

PVC COATED CHAIN LINK NETTING					
ASMUSS CODE	DESCRIPTION	APERTURE	WIRE THICKNESS	WIDTH	MASS KG/M <sup>2</sup>
		A	T		
CLNPX25200	25mm x 2.00mm CORE x 2.50mm AP CHAINLINK NETTING	25mm	2.00mm	Up to 4.6m	2.553
CLNPX25220	25mm x 2.20mm CORE x 3.20mm AP CHAINLINK NETTING	25mm	2.20mm	Up to 4.6m	3.297
CLNPX25250	25mm x 2.50mm CORE x 3.60mm AP CHAINLINK NETTING	25mm	2.20mm	Up to 4.6m	4.410
CLNPX40200	40mm x 2.00mm CORE x 2.50mm AP CHAINLINK NETTING	40mm	2.00mm	Up to 4.6m	1.414
CLNPX40220	40mm x 2.20mm CORE x 3.20mm AP CHAINLINK NETTING	40mm	2.20mm	Up to 4.6m	2.670
CLNPX40250	40mm x 2.50mm CORE x 3.60mm AP CHAINLINK NETTING	40mm	2.20mm	Up to 4.6m	3.578
CLNPX50200	50mm x 2.00mm CORE x 2.50mm AP CHAINLINK NETTING	50mm	2.00mm	Up to 4.6m	1.224
CLNPX50220	50mm x 2.20mm CORE x 3.20mm AP CHAINLINK NETTING	50mm	2.20mm	Up to 4.6m	1.650
CLNPX50250	50mm x 2.50mm CORE x 3.60mm AP CHAINLINK NETTING	50mm	2.50mm	Up to 4.6m	2.210
CLNPX63200	63mm x 2.00mm CORE x 2.50mm AP CHAINLINK NETTING	63mm	2.00mm	Up to 4.6m	
CLNPX63220	63mm x 2.20mm CORE x 3.20mm AP CHAINLINK NETTING	63mm	2.20mm	Up to 4.6m	1.320
CLNPX63250	63mm x 2.50mm CORE x 3.60mm AP CHAINLINK NETTING	63mm	2.50mm	Up to 4.6m	
CLNPX75200	75mm x 2.00mm CORE x 2.50mm AP CHAINLINK NETTING	75mm	2.00mm	Up to 4.6m	0.791
CLNPX75220	75mm x 2.20mm CORE x 3.20mm AP CHAINLINK NETTING	75mm	2.20mm	Up to 4.6m	1.066
CLNPX75250	75mm x 2.50mm CORE x 3.60mm AP CHAINLINK NETTING	75mm	2.50mm	Up to 4.6m	1.572

X = colour of chainlink required  
B = Black, G = Green, O = Orange, W = White



## Soft Wire

SOFT WIRE				
ASMUSS CODE	DESCRIPTION	FINISH	KG PER METRE	METRES PER KG
WIGS160	1.60mm HEAVILY GALVANISED (SOFT) WIRE	GALVANISED	0.0158	63.3593
WIGS200	2.00mm HEAVILY GALVANISED (SOFT) WIRE	GALVANISED	0.0247	40.5482
WIGS250	2.50mm HEAVILY GALVANISED (SOFT) WIRE	GALVANISED	0.0385	25.9511
WIGS280	2.80mm HEAVILY GALVANISED (SOFT) WIRE	GALVANISED	0.0483	20.6881
WIGS315	3.15mm HEAVILY GALVANISED (SOFT) WIRE	GALVANISED	0.0612	16.3463
WIGS400	4.00mm HEAVILY GALVANISED (SOFT) WIRE	GALVANISED	0.0986	10.1373
WIBPVC/20	1.6mm CORE x 2.00 AP H/GALV PVC COATED	BLACK PVC		
WIBPVC/2.6	2.00mm CORE x 2.50 AP H/GALV PVC COATED	BLACK PVC	0.024691	
WIBPVC/3.2	2.20mm CORE x 3.10 AP H/GALV PVC COATED	BLACK PVC	0.029851	
WIBPVC/3.6	2.50mm CORE x 3.40 AP H/GALV PVC COATED	BLACK PVC	0.038462	
WIBPVC/5.0	4.00mm CORE x 5.00 AP H/GALV PVC COATED	BLACK PVC		
WIGPVC/2.0	1.6mm CORE x 2.00 AP H/GALV PVC COATED	GREEN PVC		
WIGPVC/2.6	2.00mm CORE x 2.50 AP H/GALV PVC COATED	GREEN PVC	0.024691	
WIGPVC/3.2	2.20mm CORE x 3.10 AP H/GALV PVC COATED	GREEN PVC	0.029851	
WIGPVC/3.6	2.50mm CORE x 3.40 AP H/GALV PVC COATED	GREEN PVC	0.038462	
WIWPVC/2.6	2.00mm CORE x 2.50 AP H/GALV PVC COATED	WHITE PVC	0.024691	
WIWPVC/3.2	2.20mm CORE x 3.10 AP H/GALV PVC COATED	WHITE PVC	0.029851	
WIWPVC/3.6	2.50mm CORE x 3.40 AP H/GALV PVC COATED	WHITE PVC	0.038462	
WIOPVC/3.2	2.20mm CORE x 3.10 AP H/GALV PVC COATED	ORANGE PVC	0.029851	



## High Tensile Wire

HIGH TENSILE WIRE				
ASMUSS CODE	DESCRIPTION	FINISH	KG PER METRE	METRES PER KG
WIGH250	2.50mm HEAVILY GALVANISED (HIGH TENSILE) WIRE	GALVANISED	0.0385	25.91
WIGH25025	2.50mm HT GALV WIRE x 25KG COIL	GALVANISED	0.0385	25.91
WIGH31525	3.15mm HT GALV WIRE x 25KG COIL	GALVANISED	0.0612	16.35



## Lacing Needle

LACING NEEDLE			
ASMUSS CODE	DESCRIPTION	FINISH	WIRE THICKNESS MM
WILNGS200	2.00mm GALVANISED LACING NEEDLE	GALVANISED	2.00
WILNPB160	1.60mm CORE PVC LACING NEEDLE	BLACK PVC	1.60
WILNPB200	2.00mm CORE PVC LACING NEEDLE	BLACK PVC	2.00
WILNPG160	1.60mm CORE PVC LACING NEEDLE	GREEN PVC	1.60
WILNPG250	2.50mm CORE PVC LACING NEEDLE	GREEN PVC	2.50
WILNPO220	2.20mm CORE PVC LACING NEEDLE	ORANGE PVC	2.20





## Barbed Wire

BARBED WIRE			
ASMUSS CODE	DESCRIPTION	LENGTH M	WEIGHT KG/COIL
WIBARS/075	75mm BARBED WIRE STD		25.00
WIBARHT/100	100mm BARBED WIRE HT	500	25.00
WIBARHT/150	150mm BARBED WIRE HT	500	23.00



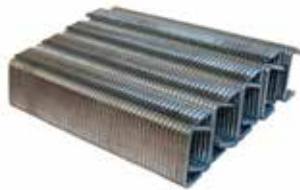
## Bag Ties and Tool

BAG TIES AND TOOL			
ASMUSS CODE	DESCRIPTION	PIECES PER BUNDLE	WEIGHT KG/BUNDLE
FETOBAG	BAG TIE TOOL	EACH	
FETOBAGHD	BAG TIE TOOL – HEAVY DUTY	EACH	
BTG1/110	110mm x 6 GALVANISED BAG TIES	1000	3.12
BTG1/150	150mm x 5 GALVANISED BAG TIES	1000	4.20
BTG1/200	200mm x 5 GALVANISED BAG TIES	1000	4.40
BTG1/230	230mm x 3 GALVANISED BAG TIES	1000	5.20
BTG1/250	250mm x 3 GALVANISED BAG TIES	1000	5.74
BTG1/300	300mm x 2 GALVANISED BAG TIES	1000	7.09



## Ring Fasteners and Tool

RING FASTENERS AND TOOL		
ASMUSS CODE	DESCRIPTION	SALES UNIT
FETORING	RING FASTENER GUN	EACH
FEFARING/RP22	RING FASTENER RP22 1000 PACK GALV	1000 / PKT
FEFARING/SS	STAINLESS STEEL RING FASTENERS RP22	1000 / PKT



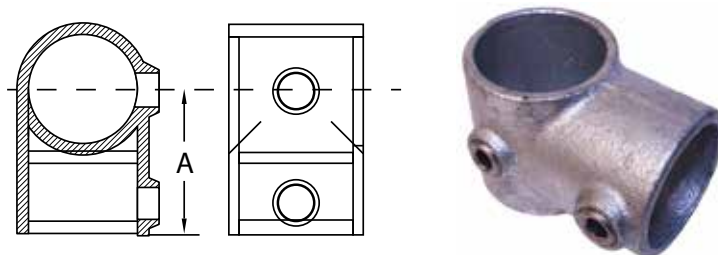
## Wire Strainers

WIRE STRAINERS		
ASMUSS CODE	DESCRIPTION	SALES UNIT
FETOSTRCL	CLIPLOCK WIRE STRAINER	25 / PKT
FETOSTR	RATCHET FOR CLIPLOCK WIRE STRAINER	EACH
FEFLWJ	FASTLOK WIRE JOINER	20 / PKT



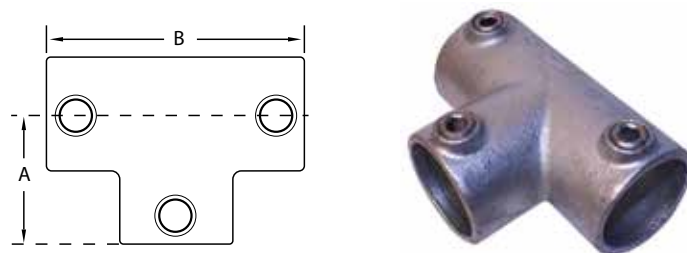
## Tube Clamp Short Tee – Type 101

TUBE CLAMP SHORT TEE				
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)		APPROX KG/PC
		OD	A	
TC101020	20	26.9	41	0.245
TC101025	25	33.7	46	0.3285
TC101032	32	42.4	60	0.4835
TC101040	40	48.3	68	0.565
TC101050	50	60.3	84	0.8505



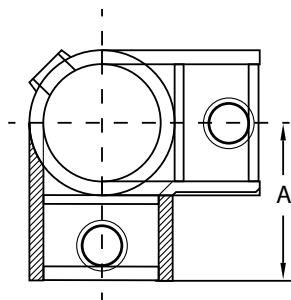
## Tube Clamp Long Tee – Type 104

TUBE CLAMP LONG TEE					
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)			APPROX KG/PC
		OD	A	B	
TC104020	20	26.9	40	80	0.365
TC104025	25	33.7	46	92	0.49
TC104032	32	42.4	60	120	0.822
TC104040	40	48.3	68	136	1.0105
TC104050	50	60.3	84	168	1.575



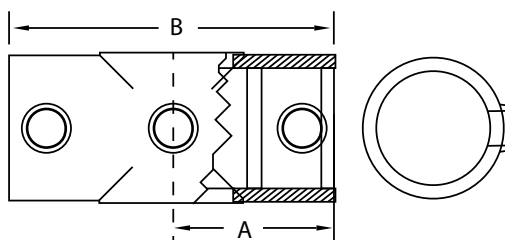
## Tube Clamp 3 Way Through – Type 116

TUBE CLAMP 3 WAY THROUGH				
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)		APPROX KG/PC
		OD	A	
TC116020	20	26.9	40	0.2545
TC116025	25	33.7	48	0.4475
TC116032	32	42.4	60	0.6965
TC116040	40	48.3	68	0.7435
TC116050	50	60.3	86	1.2075



## Tube Clamp 2 Socket Cross – Type 119

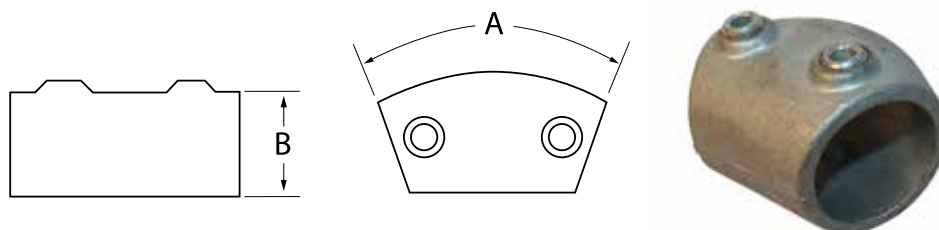
TUBE CLAMP 2 SOCKET CROSS					
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)			APPROX KG/PC
		OD	A	B	
TC119020	20	26.9	40	80	0.2775
TC119025	25	33.7	46	92	0.398
TC119032	32	42.4	60	120	0.633
TC119040	40	48.3	67.5	135	0.7455
TC119050	50	60.3	84	168	1.232



## Tube Clamp Variable Elbow 15°-60° – Type 124

**TUBE CLAMP VARIABLE ELBOW 15°-60°**

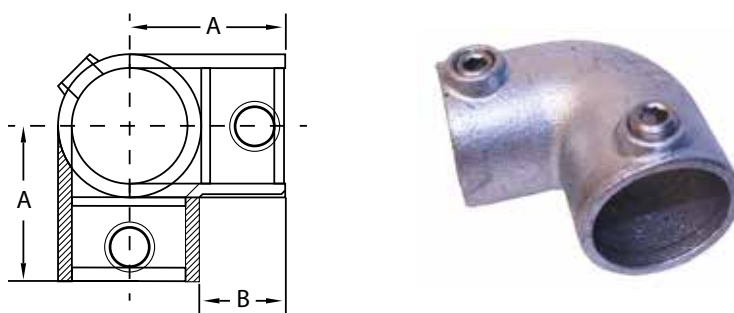
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)			APPROX KG/PC
		OD	A	B	
TC124025	25	33.7	40	46.5	
TC124032	32	42.4	47.5	55	
TC124040	40	48.3	44	60.5	



## Tube Clamp 2 Way 90° Elbow – Type 125

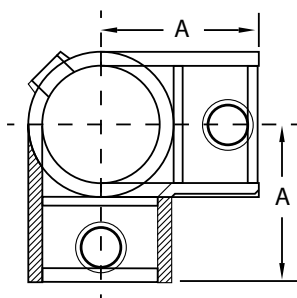
**TUBE CLAMP 2 WAY 90° ELBOW**

CODE	PIPE SIZE (MM)	DIMENSIONS (MM)			APPROX KG/PC
		OD	A	B	
TC125020	20	26.9	41	41	0.265
TC125025	25	33.7	46	46	0.366
TC125032	32	42.4	60	60	0.6035
TC125040	40	48.3	68	68	0.7115
TC125050	50	60.3	84	84	1.1325



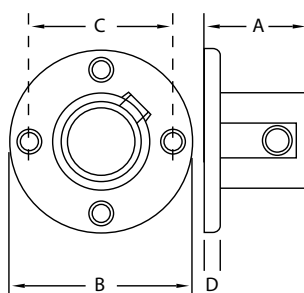
## Tube Clamp 3 Way 90° Elbow – Type 128

TUBE CLAMP 3 WAY 90° ELBOW				
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)		APPROX KG/PC
		OD	A	
TC128020	20	26.9	40	0.3105
TC128025	25	33.7	48	0.472
TC128032	32	42.4	60	0.887
TC128040	40	48.3	68	0.9835
TC128050	50	60.3	85	1.732



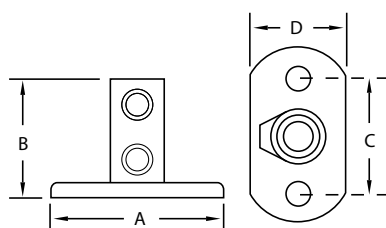
## Tube Clamp Base Flange – Type 131

TUBE CLAMP BASE FLANGE							
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)					APPROX KG/PC
		OD	A	B	C	D	
TC131020	20	26.9	42	83	57	8	0.312
TC131025	25	33.7	48	89	64	6.5	0.471
TC131032	32	42.4	50	102	76	6.5	0.6615
TC131040	40	48.3	59	114	89	6.5	0.876
TC131050	50	60.3	64	127	95	9.5	1.058



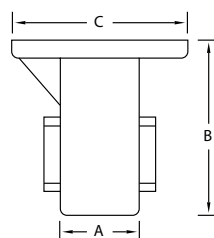
## Tube Clamp Railing Base Flange – Type 132

TUBE CLAMP RAILING BASE FLANGE							
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)					APPROX KG/PC
		OD	A	B	C	D	
TC132020	20	26.9	114	70	52	11.5	
TC132025	25	33.7	128	89	65	14.5	0.7835
TC132032	32	42.4	140	102	76	14.5	0.963
TC132040	40	48.3	152	90	89	14.5	1.261
TC132050	50	60.3	165	107	121	17.5	1.75



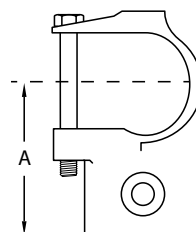
## Tube Clamp Ground Socket – Type 134

TUBE CLAMP GROUND SOCKET							
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)					APPROX KG/PC
		OD	A	B	C	D	
TC134040	40	48.3	67	135	139		



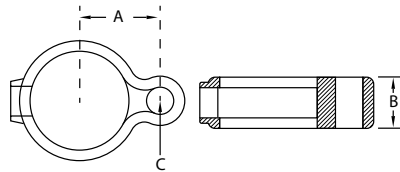
## Tube Clamp Clamp On Tee – Type 135

TUBE CLAMP CLAMP ON TEE							
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)					APPROX KG/PC
		OD	A	B	C	D	
TC135025	25	33.7	53				



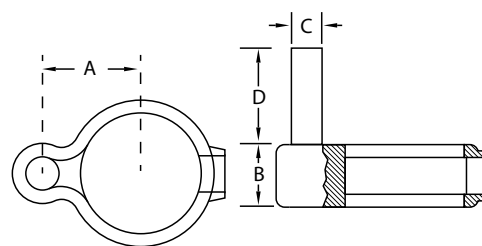
## Tube Clamp Gate Eye – Type 138

TUBE CLAMP GATE EYE							
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)					APPROX KG/PC
		OD	A	B	C	D	
TC138020	20	26.9	30	25	14		
TC138025	25	33.7	33	25	14		0.1935
TC138032	32	42.4	38	25	14		0.232
TC138040	40	48.3	41	25	14		0.244



## Tube Clamp Gate Hinge – Type 140

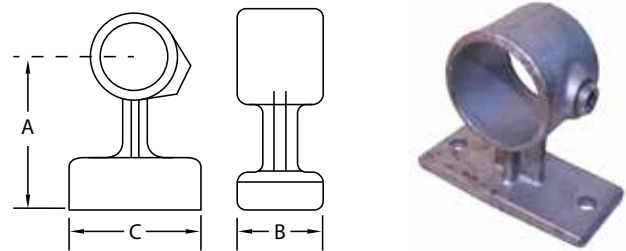
TUBE CLAMP GATE HINGE							
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)					APPROX KG/PC
		OD	A	B	C	D	
TC140020	20	26.9	30	25	12.6	38	
TC140025	25	33.7	33	25	12.6	38	0.2885
TC140032	32	42.4	38	25	12.6	38	0.3015
TC140040	40	48.3	41	25	12.6	38	0.319





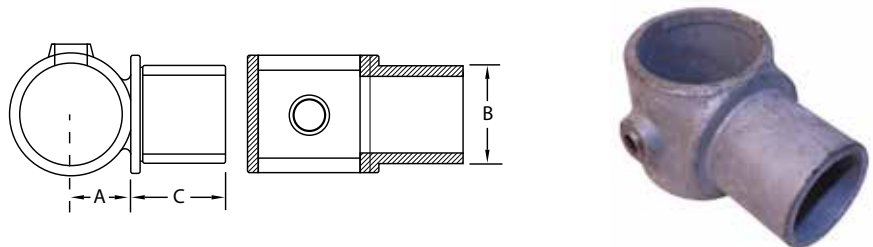
## Tube Clamp Handrail Bracket – Type 143

TUBE CLAMP HANDRAIL BRACKET							
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)					APPROX KG/PC
		OD	A	B	C	Φ	
TC143020	20	26.9	54	44	76	8	0.2665
TC143025	25	33.7	57	44	79.5	8	0.382
TC143032	32	42.4	62	44	101	8	0.5415
TC143040	40	48.3	70	50	107	8	0.5905



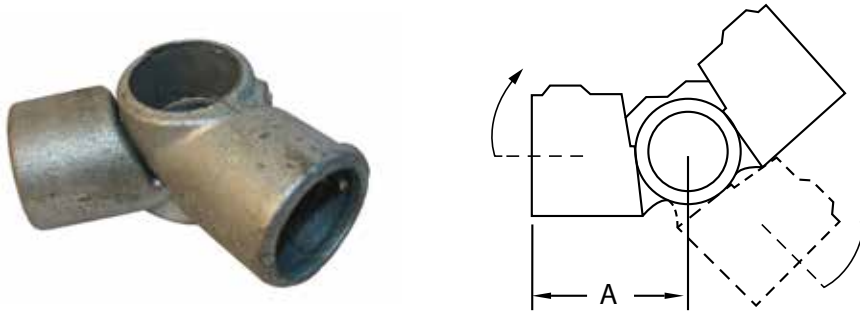
## Tube Clamp Internal Swivel Tee – Type 147

TUBE CLAMP INTERNAL SWIVEL TEE							
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)					APPROX KG/PC
		OD	A	B	C	D	
TC147032	32	42.4	26	37	42		0.53
TC147040	40	48.3	30	42	48		0.624



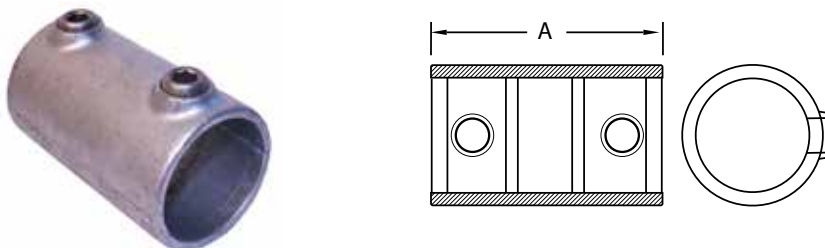
## Tube Clamp Short Swivel Tee – Type 148

TUBE CLAMP SHORT SWIVEL TEE				
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)		APPROX KG/PC
		OD	A	
TC148020	20	26.9	53	0.2435
TC148025	25	33.7	59	0.286
TC148032	32	42.4		0.528
TC148040	40	48.3	93	0.6415



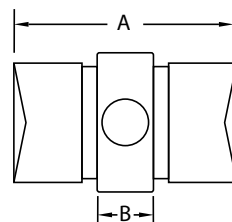
## Tube Clamp Sleeve Joint – Type 149

TUBE CLAMP SLEEVE JOINT				
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)		APPROX KG/PC
		OD	A	
TC149020	20	26.9	76	0.28
TC149025	25	33.7	89	0.409
TC149032	32	42.4	102	0.5785
TC149040	40	48.3	100	0.595
TC149050	50	60.3	120	0.98



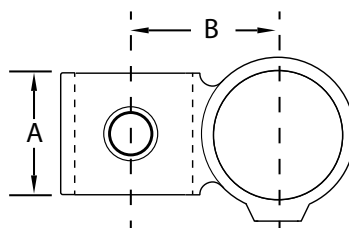
## Tube Clamp Internal Joint – Type 150

TUBE CLAMP INTERNAL JOINT					
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)			APPROX KG/PC
		OD	A	B	
TC150020	20	26.9			
TC150025	25	33.7	78	20	0.2605
TC150032	32	42.4	78	20	0.362
TC150040	40	48.3	78	20	0.45



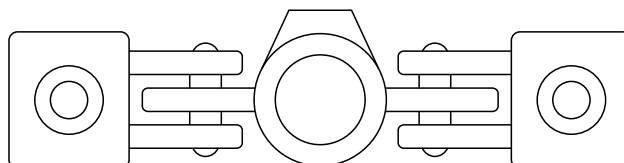
## Tube Clamp 90° Crossover – Type 161

TUBE CLAMP 90° CROSSOVER					
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)			APPROX KG/PC
		OD	A	B	
TC161020	20	26.9	36	31.5	
TC161025	25	33.7	41	38.5	0.322
TC161032	32	42.4	50	45	0.495
TC161040	40	48.3	50	55	0.582



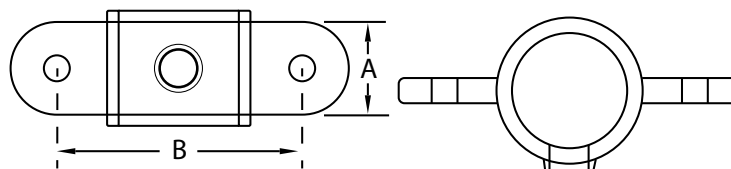
## Tube Clamp Double Swivel Combination – Type 167

TUBE CLAMP DOUBLE SWIVEL COMBINATION							
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)					APPROX KG/PC
		OD	A	B	C	D	
TC167025	25	33.7					1.1
TC167032	32	42.4					1.476
TC167040	40	48.3					



## Tube Clamp Double Male Section Of Swivel – Type 167M

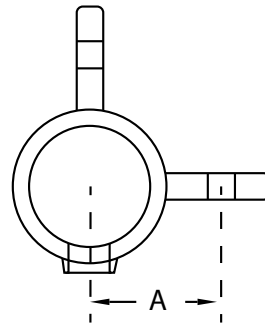
TUBE CLAMP DOUBLE MALE SECTION OF SWIVEL					
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)			APPROX KG/PC
		OD	A	B	
TC167M025	25	33.7	40	86	
TC167M032	32	42.4	45	95	
TC167M040	40	48.3	48	105	



## Tube Clamp 90° Corner Swivel Male Section – Type 168M

**TUBE CLAMP 90° CORNER SWIVEL MALE SECTION**

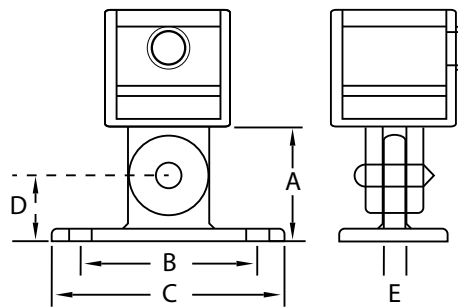
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)			APPROX KG/PC
		OD	A	B	
TC168M025	25	33.7	43.5	38	
TC168M032	32	42.4	47	32	0.36
TC168M040	40	48.3	53	44.5	



## Tube Clamp Swivel Base – Type 169

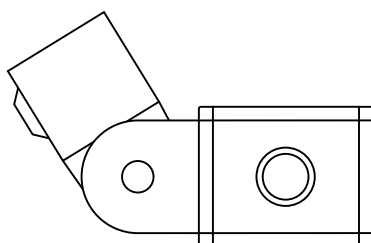
**TUBE CLAMP SWIVEL BASE**

CODE	PIPE SIZE (MM)	DIMENSIONS (MM)						APPROX KG/PC
		OD	A	B	C	D	E	
TC169020	20	26.9	50	81	111	40	8	
TC169025	25	33.7	50	81	111	40	8	
TC169032	32	42.4	50	81	111	40	8	0.8825
TC169040	40	48.3	50	81	111	40	8	0.922



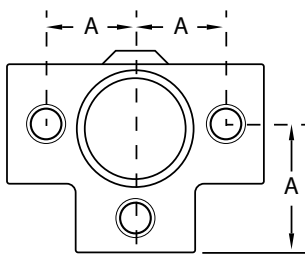
## Tube Clamp Single Swivel Combination – Type 173

TUBE CLAMP SINGLE SWIVEL COMBINATION			
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)	APPROX KG/PC
		OD	
TC173020	20	26.9	0.4585
TC173025	25	33.7	0.5005
TC173032	32	42.4	0.8405
TC173040	40	48.3	0.864
TC173050	50	60.3	1.245



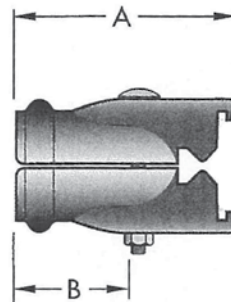
## Tube Clamp Tee With Centre Outlet – Type 176

TUBE CLAMP TEE WITH CENTRE OUTLET				
CODE	PIPE SIZE (MM)	DIMENSIONS (MM)		APPROX KG/PC
		OD	A	
TC176020	20	26.9	40	0.42
TC176025	25	33.7	48	0.514
TC176032	32	42.4	60	0.94
TC176040	40	48.3	66	1.038



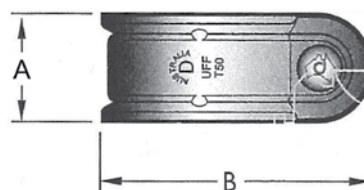
# A-Clamp Rail Clamp

A-CLAMP RAIL CLAMP					
CODE	DIMENSIONS (MM)				KG/EACH
	BUTT	A	B	BOLT	
ACFURAILC/025	25	89	48	M10x75	0.35
ACFURAILC/032	32	103	57	M10x75	0.4
ACFURAILC/040	40	102	56	M10x75	0.4666666
ACFURAILC/050	50	109	60	M10x80	0.55



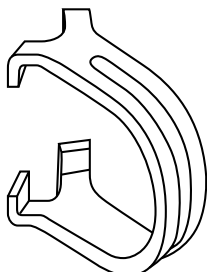
# A-Clamp Post Clamp

A-CLAMP POST CLAMP					
CODE	DIMENSIONS (MM)				KG/EACH
	THRU	A	B	BOLT	
ACUFPOSTC/025	25	50	80	M10x20	0.18
ACUFPOSTC/032	32	59	90	M10x20	0.225
ACUFPOSTC/040	40	64	96	M10x20	0.225
ACUFPOSTC/050	50	76	110	M10x20	0.25
ACUFPOSTC/065	65	92	124	M10x20	0.3
ACUFPOSTC/080	80	105	137	M10x20	0.35
ACUFPOSTC/100	100	130	161	M10x30	0.45



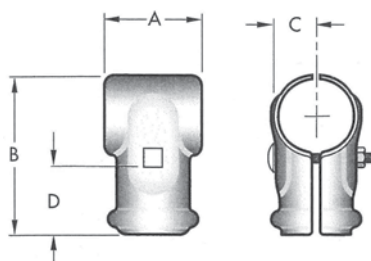
## A-Clamp Multi-Purpose Connector

A-CLAMP MULTI-PURPOSE CONNECTOR		
CODE	DIMENSIONS (MM)	KG/EACH
	DESCRIPTION	
ACUPC	Multi Purpose Connector	0.05



## A-Clamp Fixed Tee

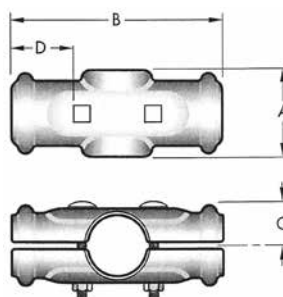
A-CLAMP FIXED TEE								
CODE	DIMENSIONS (MM)							KG/EACH
	THRU	BUTT	BOLT	A	B	C	D	
ACTE/015	15	15	M6X45	33	56	16	26	0.008
ACTE/020	20	20	M8X50	38	67	21	28	0.15
ACTE/025	25	25	M8X60	43	74	24	29	0.22
ACTE/032	32	32	M10X70	65	96	28	40	0.40
ACTE/040	40	40	M10X80	76	114	34	50	0.55
ACTE/050	50	50	M10X90	84	130	39	54	0.95
ACTE/020X025	20	25	M8X60	44	65	24	25	0.21
ACTE/025X020	25	20	M8X60	40	70	21	25	0.18
ACTE/025X032	25	32	M10X70	65	81	28	33	0.35
ACTE/025X040	25	40	M10X80	77	97	32	47	0.50
ACTE/032X025	32	25	M10X60	57	97	27	41	0.35
ACTE/032X040	32	40	M10X80	77	110	32	51	0.55
ACTE/032X050	32	50	M10X90	83	111	38	53	0.80
ACTE/040X025	40	25	M10X60	62	100	30	38	0.37
ACTE/040X032	40	32	M10X70	66	107	31	45	0.47
ACTE/040X050	40	50	M10X90	83	118	38	51	0.90
ACTE/050X025	50	25	M10X60	62	11	63	73	0.42
ACTE/050X032	50	32	M10X70	69	12	33	74	0.53
ACTE/050X040	50	40	M10X80	75	12	73	95	0.80
ACTE/065X050	65	50	M12X100	89	157	47	63	1.20
ACTE/080X032	80	32	M10X80	69	161	53	56	0.95
ACTE/080X040	80	40	M10X85	76	162	55	53	1.05
ACTE/080X050	80	50	M12X100	89	170	55	62	1.30





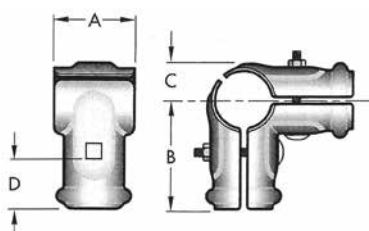
## A-Clamp Fixed Cross

A-CLAMP FIXED CROSS								
CODE	DIMENSIONS (MM)							KG/EACH
	THRU	BUTT	BOLT	A	B	C	D	
ACCR/015	15	15	M6X45	34	90	17	26	0.11
ACCR/020	20	20	M8X50	47	111	21	34	0.26
ACCR/025	25	25	M8X60	52	123	24	36	0.45
ACCR/032	32	32	M10X70	65	148	28	41	0.66
ACCR/040	40	40	M10X80	77	151	33	40	0.70
ACCR/050	50	50	M12X100	89	195	41	55	0.90
ACCR/025X020	25	20	M8X60	46	110	24	29	0.32
ACCR/032X025	32	25	M10X60	57	142	28	37	0.56
ACCR/040X025	40	25	M10X60	60	154	30	41	0.53
ACCR/040X032	40	32	M10X75	63	150	32	40	0.56
ACCR/050X032	50	32	M10X75	68	177	88	43	0.93
ACCR/050X040	50	40	M10X85	76	186	38	50	0.55
ACCR/065X050	65	50	M12X100	91	232	48	63	1.05



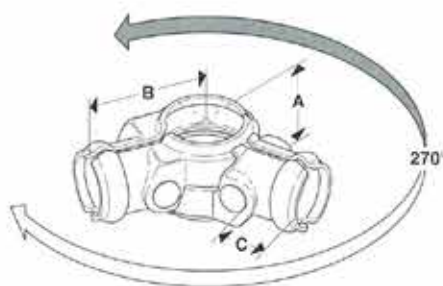
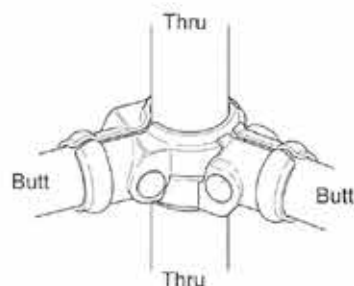
## A-Clamp Fixed Corner

A-CLAMP FIXED CORNER								
CODE	DIMENSIONS (MM)							KG/EACH
	THRU	BUTT	BOLT	A	B	C	D	
ACCOR/015	15	15	M6X45	36	62	17	31	0.26
ACCOR/020	20	20	M8X50	47	71	21	33	0.35
ACCOR/025	25	25	M8X60	59	79	24	35	0.45
ACCOR/032	32	32	M10X75	64	100	32	48	0.60
ACCOR/040	40	40	M10X80	71	104	36	45	1.00
ACCOR/050	50	50	M12X100	90	120	42	52	1.80
ACCOR/040X025	40	25	M10X60	57	80	25	36	0.53
ACCOR/050X032	50	32	M10X80	70	104	33	51	1.10
ACCOR/050X040	50	40	M10X85	79	104	35	45	1.10



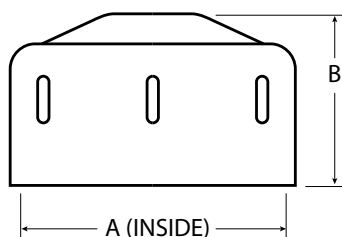
## A-Clamp Adjustable Corner

A-CLAMP ADJUSTABLE CORNER							
CODE	DIMENSIONS (MM)						KG/EACH
	THRU	BUTT	BOLT	T	L	W	
ACCORADJ/032	32	32	M10X70	3	183	65	0.7
ACCORADJ/040	40	40	M10X75	3	188	71	0.8
ACCORADJ/050	50	50	M10X85	3	200	83	1.2
ACCORADJ/040X032	40	32	M10X70	3	183	65	0.8
ACCORADJ/050X032	50	32	M10X70	3	180	65	0.8
ACCORADJ/050X040	50	40	M10X75	3	176	71	0.8



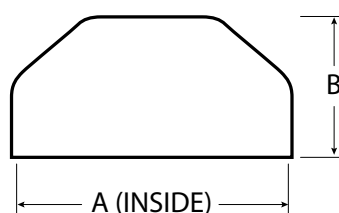
## A-Clamp Round Post Cap

A-CLAMP ROUND POST CAP				
CODE	DIMENSIONS (MM)			KG/EACH
	FINISH	A	B	
ACCA/020	GALVABOND	27	20	0.02
ACCA/025	GALVABOND	34	30	0.04
ACCA/032	GALVABOND	43	30	0.08
ACCA/040	GALVABOND	49	30	0.06
ACCA/050	GALVABOND	60	30	0.10
ACCA/065	GALVABOND	77	37	0.20
ACCA/080	GALVABOND	89	40	0.22
ACCA/100	GALVABOND	114	43	0.32
ACCA/125	GALVABOND	140	40	0.36
ACCA/150	GALVABOND	165	40	0.40
ACCA/200	GALVABOND	219	40	0.00



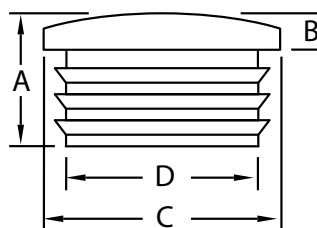
## A-Clamp Square Post Cap

A-CLAMP SQUARE POST CAP					
CODE	SHS SIZE (MM)	DIMENSIONS (MM)			KG/EACH
		FINISH	A	B	
ACCARHS/035	35X35	GALVABOND	35	24	0.03
ACCARHS/040	40X40	GALVABOND	40	26	0.03
ACCARHS/050	50X50	GALVABOND	50	28	0.05
ACCARHS/065	65X65	GALVABOND	65	32	0.07
ACCARHS/075	75X75	GALVABOND	75	32	0.11
ACCARHS/090	89X89	GALVABOND	90	32	0.17
ACCARHS/100	100X100	GALVABOND	100	32	0.30



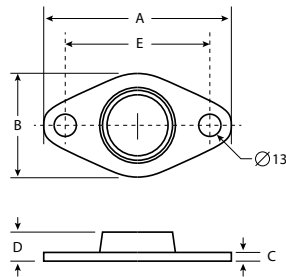
## A-Clamp Plastic Round Post Cap

A-CLAMP PLASTIC ROUND POST CAP					
CODE	DIMENSIONS (MM)				KG/EACH
	A	B	C	D	
FECAPPVC/020					
FECAPPVC/025	20.7	6	33.7	22.2	0.63
FECAPPVC/032	24.7	7.4	42.4	30.9	0.83
FECAPPVC/040	27.2	8.5	48.3	34.6	1.10
FECAPPVC/050	30.7	10.5	59.4	46.3	1.50
FECAPPVC/065	35.4	14	74.5	46.1	1.00



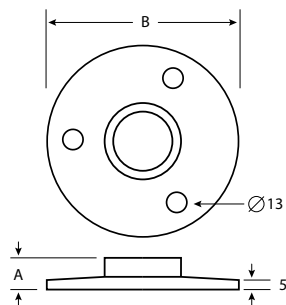
## A-Clamp Oval Flange

A-CLAMP OVAL FLANGE						
CODE	DIMENSIONS (MM)					KG/EACH
	A	B	C	D	E	
ACFLOV/025	108	61	4	14	83	0.13
ACFLOV/032	123	75	4	16	97	0.22
ACFLOV/040	128	81	5	18	102	0.25
ACFLOV/050	145	98	5	21	113	0.35



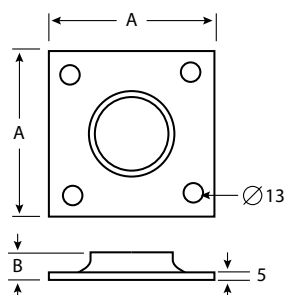
## A-Clamp Round Flange

A-CLAMP ROUND FLANGE			
CODE	DIMENSIONS (MM)		KG/EACH
	A	B	
ACFLR/032	16	130	0.24
ACFLR/040	18	130	0.24
ACFLR/050	20	130	0.36



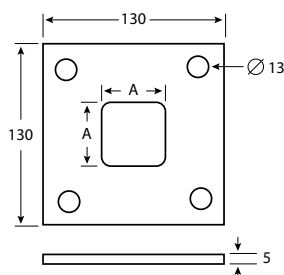
## A-Clamp Square Flange

A-CLAMP SQUARE FLANGE			
CODE	DIMENSIONS (MM)		KG/EACH
	A	B	
ACFLSQ/032	100	19	0.40
ACFLSQ/040	100	21	0.37
ACFLSQ/050	130	21	0.64



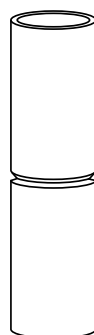
## A-Clamp Square SHS Flange

A-CLAMP SQUARE SHS FLANGE			
CODE	SHS SIZE (MM)	DIMENSIONS (MM)	KG/EACH
		A	
ACFLSQSHS/050	50X50	51X51	0.52



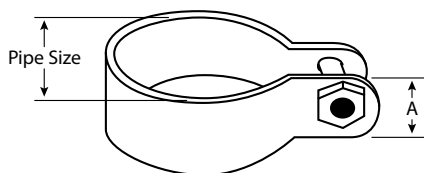
## Pipe Sleeves – External Fitment

PIPE SLEEVES – EXTERNAL FITMENT			
CODE	PIPE	LENGTH	KG/EACH
PWS/020	20	150	4.70
PWS/025	25	150	5.50
PWS/032	32	200	9.00
PWS/040	40	200	6.00
PWS/050	50	200	6.00



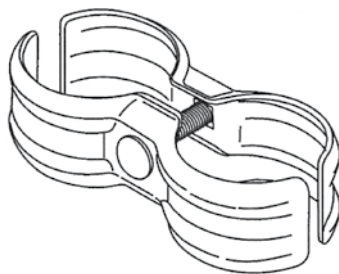
## Centrebands

CENTREBAND						
CODE		TUBE SIZE (MM)	DIMENSIONS (MM)			KG/EACH
			OD	A	BOLT	
FECBW/025	25mm PLAIN CENTREBAND	25	33.7	40	M10x50	0.42
FECBW/032	32mm PLAIN CENTREBAND	32	42.4	40	M10x50	0.25
FECBW/040	40mm PLAIN CENTREBAND	40	48.3	40	M10x50	0.28
FECBW/050	50mm PLAIN CENTREBAND	50	60.3	40	M10x60	0.31
FECBW/065	65mm PLAIN CENTREBAND	65	76.1	40	M10x60	0.36
FECBW/080	80mm PLAIN CENTREBAND	80	88.9	40	M10x60	0.39
FECBW/100	100mm PLAIN CENTREBAND	100	114.3	40	M10x60	0.50
FECBW/125	125mm PLAIN CENTREBAND	125	139.7	40	M10x30	0.57
FECBW/150	150mm PLAIN CENTREBAND	150	165.1	40	M10x60	0.63



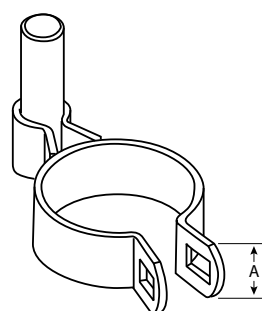
## Temporary Fence Clamps – Galvanised

TEMPORARY FENCE CLAMPS – GALVANISED		
CODE	PIPE	KG/EACH
FEVERTC/025 x 025	25 x 25	12.50
FEVERTC/032 x 032	32 x 32	14.30
FEVERTC/040 x 040	40 x 40	12.90
FEVERTC/050 x 050	50 x 50	15.40



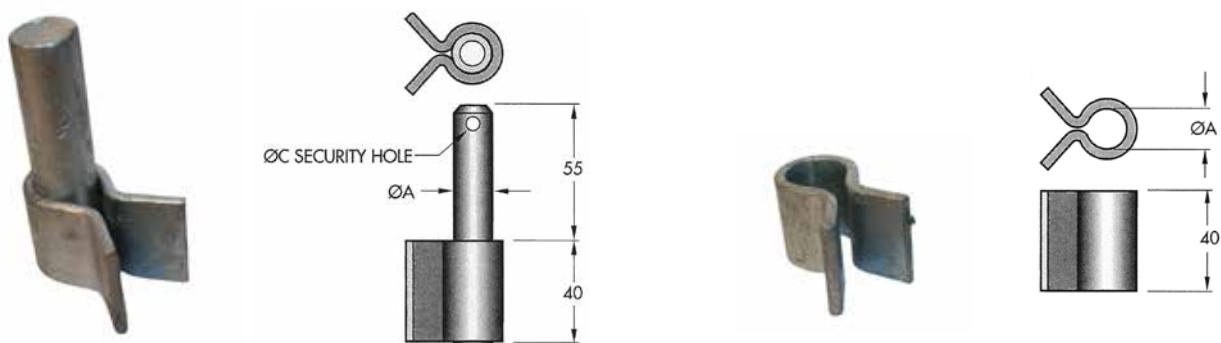
## Centreband With Gudgeon

CENTREBAND WITH GUDGEON							
CODE		TUBE SIZE (mm)	DIMENSIONS (MM)				KG/EACH
			OD	A	GUDGEON WIDTH	BOLT	
FECBWGUD/02516	25mm CENTREBAND WITH 16mm GUDGEON	25	33.7	40	16	M10x50	0.43
FECBWGUD/03216	32mm CENTREBAND WITH 16mm GUDGEON	32	42.4	40	16	M10x50	0.48
FECBWGUD/04016	40mm CENTREBAND WITH 16mm GUDGEON	40	48.3	40	16	M10x50	0.50
FECBWGUD/05016	50mm CENTREBAND WITH 16mm GUDGEON	50	60.3	40	16	M10x60	0.50
FECBWGUD/040	40mm CENTREBAND WITH 20mm GUDGEON	40	48.3	40	20	M10x50	0.66
FECBWGUD/050	50mm CENTREBAND WITH 20mm GUDGEON	50	60.3	40	20	M10x60	0.68
FECBWGUD/065	65mm CENTREBAND WITH 20mm GUDGEON	65	76.1	40	20	M10x60	0.75
FECBWGUD/080	80mm CENTREBAND WITH 20mm GUDGEON	80	88.9	40	20	M10x60	0.764
FECBWGUD/100	100mm CENTREBAND WITH 20mm GUDGEON	100	114.3	40	20	M10x60	0.84
FECBWGUD/125	125mm CENTREBAND WITH 20mm GUDGEON	125	139.7	40	20	M10x30	0.93
FECBWGUD/150	150mm CENTREBAND WITH 20mm GUDGEON	150	165.1	40	20	M10x60	1.04



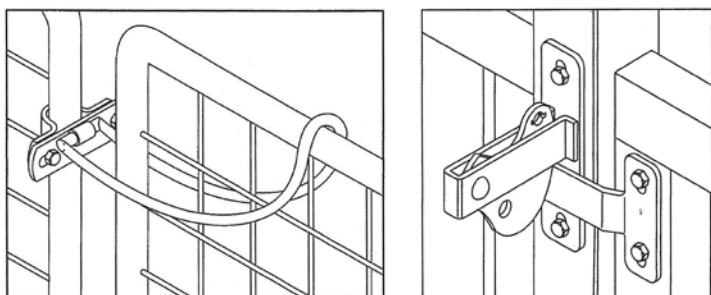
## Weld On Gudgeon And Lug

WELD ON GUDGEON AND LUG			
CODE		DIMENSIONS (MM)	KG/EACH
		A	
Gudgeon			
FEGUSW/016	WELD ON GUDGEON 16mm PIN	16	0.15
FEGUSW/020	WELD ON GUDGEON 20mm PIN	20	0.39
Lug			
FELU/016	WELD ON LUG 16mm PIN	16	0.05
FELU/020	WELD ON LUG 20mm PIN	20	0.17



## Standard Latches

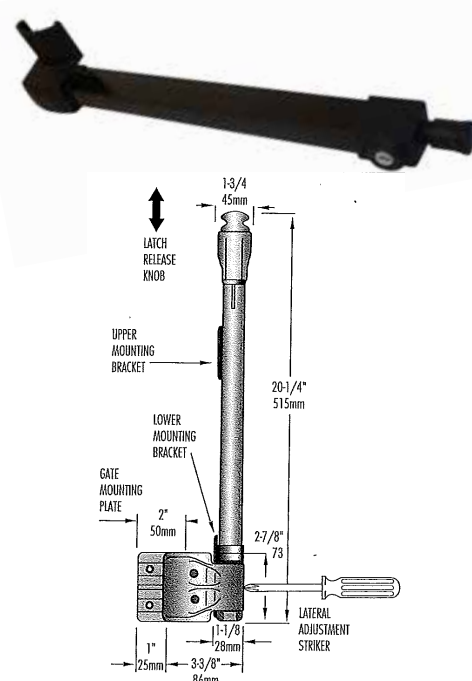
STANDARD LATCHES		
CODE		KG/EACH
Gudgeon		
FELATCHSCREW	SCREW ON 'D' LATCH	
FELATCHWELD	WELD ON 'D' LATCH	
FELATCHBOW/025	25mm BOW LATCH	
FELATCHBOW/032	32mm BOW LATCH	





## Safety Latches

SAFETY LATCHES				
CODE		DIMENSIONS (MM)		KG/EACH
		A	B	
FEMLONG	MAGNA LATCH LONG VERTICAL PULL	515	86	0.67
FEMLSHORT	MAGNA LATCH SHORT VERTICAL PULL	260	86	0.51
FEMLSIDEPULL	MAGNA LATCH SIDE PULL	60	78	



## Safety Fencing

SAFETY FENCING						
CODE		MAX GATE (KG)	DIMENSIONS (MM)			KG/EACH
			LEGS	SIZE	LEAF	
FETCA1/L2PR	PAIR OF TRUCLOSE SELF CLOSING HINGES	25	2			0.13
FECHD1-L1/PR	PAIR OF H/DUTY S/CLOSING HINGES – WIDE	60	1	125x87mm	34/34mm	
FECHD1A-L1/PR	PAIR OF H/DUTY S/CLOSING HINGES – NARROW	60	1	125x120mm	50/58mm	0.26



## Notes

[illegible]



# **Engineering Supplies and Consumables**

## 'High Five' Industrial Nitrile Glove



### High Five Industrial Nitrile Glove

CODE	SIZE
SGDG	Large

- Excellent chemical and oil resistance
- Excellent puncture and abrasion resistance
- 100% Nitrile rubber – very skin friendly

## Rigger Gloves



### Rigger Gloves

CODE	SIZE
SGGE275L	Large
SGGE275XL	X-Large

- Premium full grain cowhide rigger glove
- Demanded by industrial users throughout New Zealand
- Soft, durable and dexterous leather

## Black Bull Gloves



### Black Bull Gloves

CODE	SIZE
SGGHC	8-9

- Black 13 gauge seamless polyamide/spandex liner for increased comfort and breathability
- Patented multi-coated foam nitrile coating creates a spongy, abrasion-resistant but flexible barrier that repels liquids to provide an excellent wet or dry grip
- Highly dexterous, with form fitting liner knitted with the latest U3 technology

## Blue Brute Welding Gloves



### Blue Brute Welding Gloves

CODE	TYPE
SGGBB160	Regular pair
SGGLG160	Left handed pair

- Premium side leather
- Reinforced palm, thumb, wrist and knucklebar
- KEVLAR sewn
- Fully lined

A full range of safety equipment is available on request.

## Magnum Safety Glasses

- Medium impact, anti-scratch lens
- Stylish, wrap around design which promotes wear in any work environment
- 99.9% UV protection for outdoor wear
- Ultra lightweight to increase comfort for extended wear
- Anti-fog coated lens ideal for use with dust masks and humid conditions

Magnum Safety Glasses	
CODE	COLOUR
SGMA	Amber
SGMS	Smoke
SGMC	Clear



## Vispec Safety Glasses

- Designed to be worn over prescription glasses
- Light-weight, comfortable economy eye protector
- Medium impact, anti-scratch lens
- 99.9% UV protection for outdoor wear

Vispec Safety Glasses	
CODE	COLOUR
SGVISPEC	Clear



## G-MAX Safety Goggles

- Panoramic 180° field of vision
- Suitable for use over prescription glasses
- Outstanding ventilation system
- Ergonomic design with co-injected frame
- Designed to give optimum fit to all facial contours
- 99.9% UV protection for outdoor wear
- Medium impact, anti-scratch / anti-fog coated lens
- Able to withstand high temperatures

G-MAX Safety Goggles	
CODE	
SGPEG	



A full range of safety equipment is available on request.

### Proplug Disposable Corded Earplugs



#### Proplug Disposable Corded Earplugs

CODE

SGEPDCBOX

- Disposable class 5 ear plugs
- Hearing protection for noise level to 110 dB(A)
- Pairs packaged in individual barcoded poly bags
- 100 pieces per box

### Proplug Disposable Un-Corded Earplugs



#### PROPLUG Disposable Un-Corded Earplugs

CODE

SGEPDUCBOX

- Disposable class 5 ear plugs
- Hearing protection for noise level to 110 dB(A)
- Pairs packaged in individual barcoded poly bags
- 200 pairs per box

### X300 Earmuffs



#### X300 Earmuffs

CODE

SGEM

- Class 5, SLC80 25dB hearing protection
- Hearing protection for noise levels to 110 dB(A)
- Solid, lightweight ear cup construction
- High quality ear cushions
- Low clamping force applies minimum pressure while maintaining a tight snug seal

A full range of safety equipment is available on request.



## Respirator P2 With Valve

- P2 rating for protection against mechanically and thermally generated particles
- Exhalation ProValve for extra air flow
- Colour coded packaging for ease of identification
- Dual straps give firm and comfortable fit

### G-MAX Safety Goggles

#### CODE

SGRGPC321



## Promesh Respirator P2 With Valve and Active Carbon Filter

- Flexible mesh which ensures optimum shape retention for a perfect, airtight fit
- Protects against nuisance-level organic vapours in addition to P2 rating
- Moulded nosepiece for close fit
- QuickLock straps for easy fit and release
- Exhalation ProValve for extra airflow

### Promesh Respirator P2 With Valve and Active Carbon Filter

#### CODE

SGRGPC823



A full range of safety equipment is available on request.

## Tuff-Shield



Tuff-Shield	
CODE	
SGTS	

- Certified to AS/NZS 1337.1 for extra high impact protection
- Anti-scratch / Anti-fog coated lens
- 99.9% UV protection for outdoor wear
- Ratchet-adjustment headgear
- 7-position harness strap adaptable to any head size
- 3-position crown angle adjustment

## TN1 Tuff-Nut



TN1 Tuff-Nut	
CODE	COLOUR
SGHPNYR	Yellow
SGHPW1	White

- Light, comfortable & well-ventilated, short peak design
- Hard shell made of UV-resistant ABS materials to absorb and resist high impact
- Pin lock 6 point suspension harness
- Available in 8 shell colours: white, yellow, neon yellow, neon orange, orange, red, green & blue (all colours available on request, yellow and white in-store)
- Easily detachable harness and fully adjustable to fit head sizes between 53cm to 66cm
- Ready with universal accessory slots to fit eye, face & hearing protection products

## 'Good2glow' Hi Vis Vest



'Good2glow' Hi Vis Vest	
CODE	SIZE
SGHVOM	M
SGHVOL	L
SGHVOXL	XL
SGHVOXXL	XXL

- TTMC Compliant
- Zip front
- Phone pocket with pen partition and ID holder
- Fits iPhone and most smart phones
- Packed in header carded polybag
- Sizes: XS – 4XL (certain sizes available on request)

A full range of safety equipment is available on request.



## 355mm Metal Cut-off Saw

- Powerful 2000W motor
- Quick release vice
- Spark diversion guide
- Convenient spindle lock
- Soft-grip handle
- Capable of cutting shaped steel up to 130 x 130mm

**Standard with** cut-off wheel and wrench.

### 355mm Metal Cut-off Saw

#### CODE

TOHICC14SF



## 10mm Variable Speed Drill

- Compact and lightweight
- 10mm keyed chuck
- Variable speed by trigger and dial plus reverse
- Maximum no-load speed 2300rpm
- Rubberised non-slip housing

**Standard with** chuck key and carry case

### 10mm Variable Speed Drill

#### CODE

TOHID10VC2



## 13mm High Torque Drill

The perfect drill for electricians or plumbers who need to drill large holes for wiring or plumbing

- Powerful high performance 800W motor
- Heavy duty 13mm keyed chuck
- Triple reduction gearbox gives a high torque output of 74Nm
- Variable speed and reverse

**Standard with** chuck key, side handle and carry case

### 13mm High Torque Drill

#### CODE

TOHID13VG



## 16mm Impact Drill

- Quick 'impact' – 'non impact' switching
- Variable speed and reverse
- 13mm keyed chuck
- Powerful 590W motor

**Standard with** side handle, depth gauge and carry case

### 16mm Impact Drill

#### CODE

TOHIDV16V



## 18V PRO Series 5.0Ah Driver Drill



### 18V PRO Series 5.0Ah Driver Drill

#### CODE

TOHIDS18DSDL

- Heavy duty model – 92Nm Hard Torque output
- Heavy duty 2-speed gearbox with metal gear transmission, variable speed and reverse
- Heavy duty 13mm steel-cased keyless chuck with ratcheting feature and spindle lock
- Ultra-bright LED light to illuminate work area
- Battery charge level indicator – to reduce unnecessary charging

**Standard with** 2x 5.0Ah Energy Li-ion batteries, fan-cooled smart charger, driver bit and carry case

## 18V PRO Series Impact Drill



### 18V PRO Series Impact Drill

#### CODE

TOHIDV18DSDL

- Heavy duty model – 92Nm Hard Torque output
- Heavy duty 2-speed gearbox with metal gear transmission, variable speed and reverse
- Heavy duty 13mm steel-cased keyless chuck with ratcheting feature and spindle lock
- Impact mode for masonry drilling
- Ultra-bright LED light to illuminate work area
- Battery charge level indicator – to reduce unnecessary charging

**Standard with** 2x 5.0Ah Energy Li-ion batteries, fan-cooled smart charger and carry case

## 730W General Purpose Angle Grinder



### 730W General Purpose Angle Grinder

#### CODE

#### SIZE

TOHIG10SR4	100mm Disc
TOHIG12SR4	115mm Disc

- Available in 100/115mm
- Heat resistant, high powered 730W motor
- Strong alloy gearbox
- Spindle Lock
- Ergonomically angled side handle

**Standard with** grinding wheel, wrench, side handle and carry case. Deadman-type switch operation available on request.

## 125mm Heavy Duty Angle Grinder

- Power and performance in a compact package
- Heat resistant, super high powered 1300W motor
- Sleek, low profile head
- Strong alloy gearbox
- Spindle lock and ergonomically angled side handle

### 125mm Heavy Duty Angle Grinder

CODE

TOHIG13SB3



**Standard with** grinding wheel, wrench and side handle. Deadman-type switch operation available on request.

## 125mm Ergo Heavy Duty Angle Grinder

A new generation Heavy Duty Angle Grinder featuring:

- Advanced Ergonomics resulting in new slim body design - only 202mm diameter
- New anti-vibration side handle and quick adjust tool-less guard
- Increased overload and dust durability from new generation motor - 1200W
- New ultra compact gearbox design for better tight area access
- Side Mounted switch design

### 125mm Ergo Heavy Duty Angle Grinder

CODE

TOHIG13SW



**Standard with** grinding wheel, wrench and side handle

## 125mm Electronic Safety Angle Grinder

- Super-powerful 1500W motor with high overload durability
- Safe and easy-to-use paddle switch
- Strong alloy gearbox with spindle lock
- Tool-less guard adjustment
- Anti-vibration side handle
- Fully-compliant electronic safety grinder featuring: Kickback protection, Zero-voltage restart protection, Constant speed control, Soft-start control, Overload protection

### 125mm Electronic Safety Angle Grinder

CODE

TOHIG13YC2



**Standard with** grinding wheel, wrench and side handle

## 18V 125mm Angle Grinder Bare Tool



### 18V 125mm Angle Grinder Bare Tool

#### CODE

TOHIG18DSLNN

- 125mm grinding wheel
- Slim, soft grip for maximum comfort and control
- Slide switch and anti-restart protection
- Spindle lock for easy wheel changes
- No-load speed 9,100/min
- Battery level indicator – for convenience and to extend battery life
- Compatible with ALL Hitachi 18V slide batteries
- Supplied without batteries, charger and carry case

**Standard with** grinding wheel, wrench and side handle

## 230mm Angle Grinder



### 230mm Angle Grinder

#### CODE

TOHIG23SW2

- Lightweight & compact new body design for general purpose use
- High-performance 2200W motor
- High overload durability due to new heat resistant motor
- New labyrinth air vent design provides more protection for motor from grit and dirt contamination.
- Low profile gearbox for access into tight areas
- Soft grip trigger handle

**Supplied without** grinding wheel

## 230mm Extra Heavy Duty Angle Grinder



### 230mm Extra Heavy Duty Angle Grinder

#### CODE

TOHIG23MR

- 2400W motor with high overload durability
- Super tough alloy outer casing with double-insulated polycarbonate inner layer
- Easy to operate trigger switch
- 3-position anti-vibration side handle
- Tool-less guard adjustment
- Low profile head for access into confined areas
- Auto-stop brushes and anti-dust airflow system for maximum motor protection

**Standard with** grinding wheel, wrench and side handle.

## BLU-MOL Mandrel

Standard	
CODE	SIZE
TOMAN3/8	3/8"
TOMAN7/16	7/16"

Pilot Drill	
CODE	SIZE
TOPDB3/8	3/8" x 89mm
TOPDB7/16	7/16" x 115mm



Hex Shank	
CODE	SIZE
TOMANHS3/8	3/8"

## BLU-MOL Holesaw

BLU-MOL Holesaw			
CODE	SIZE	CODE	SIZE
TOHS20	20mm	TOHS64	64mm
TOHS30	30mm	TOHS70	70mm
TOHS38	38mm	TOHS80	80mm
TOHS40	40mm	TOHS89	89mm
TOHS45	45mm	TOHS102	102mm
TOHS51	51mm	TOHS114	114mm
TOHS54	54mm	TOHS121	121mm
TOHS57	57mm		



## Black Jet Jobber Drill

Black Jet Jobber Drill			
CODE	SIZE	CODE	SIZE
TODB010	1.0mm	TODB070	7.0mm
TODB015	1.5mm	TODB075	7.5mm
TODB020	2.0mm	TODB080	8.0mm
TODB025	2.5mm	TODB085	8.5mm
TODB030	3.0mm	TODB090	9.0mm
TODB035	3.5mm	TODB095	9.5mm
TODB040	4.0mm	TODB100	10.0mm
TODB045	4.5mm	TODB105	10.5mm
TODB049	4.9mm	TODB110	11.0mm
TODB050	5.0mm	TODB115	11.5mm
TODB055	5.5mm	TODB120	12.0mm
TODB060	6.0mm	TODB125	12.5mm
TODB065	6.5mm	TODB130	13.0mm



## 75mm Twist Knot Wire Cup Brush

### 75mm Twist Knot Wire Cup Brush

CODE

TOWCBTK075



## 75mm Crimp Wire Cup Brush

### 75mm Crimp Wire Cup Brush

CODE

TOWCB075



## Engineers Chalk Box

### Engineers Chalk Box 144 pieces per box

CODE

COCHALKBOX



## Hacksaw Frame and Blade



Hacksaw Frame and Blade	
CODE	
TOHACHSAW	

## Hacksaw Blades



Hacksaw Blades	
CODE	SIZE
TOBLADE18	12 x 18
TOBLADE24	12 x 24
TOBLADE32	12 x 32

## 250mm File Range



250mm File Range	
CODE	TYPE
TOF1/2250	½ Round Bastard
TOFR250	Round Bastard
TOFS250	Square Bastard
TOFF250	Second Cut Flat

## Kapro 9" Level with Rubber End Caps



Kapro 9" Level with Rubber End Caps	
CODE	
TOT9LEVEL	

## Scratch Brush



Scratch Brush	
CODE	SIZE
TOWBCS	Mild Steel
TOWBSS	Stainless Steel



## X-PAND0 Joint Compound 450g

## X-PAND0 Joint Compound 450g

CODE

COEX



## Rocol Windsor Graphite Jointing Compound 500g

## Rocol Windsor Graphite Jointing Compound 500g

CODE

COHO



## Rocol Gasseal Compound 300g

## Rocol Gasseal Compound 300g

CODE

COGS



## Heldite Jointing Compound 250g

## Heldite Jointing Compound 250g

CODE

COHE



## CRC CDT Cutting Oil 400ml



CRC CDT Cutting Oil 400ml	
CODE	
CRC3063	

## CRC Weld Anti-Spatter 400ml



CRC Weld Anti-Spatter 400ml	
CODE	
CRC3358	

## CRC Paint Range



Spray Paint	
CODE	COLOUR
CRC2091	Prime It 400ml
CRC2087	Bright Zinc 400ml
CRC2089	Black Zinc 400ml
CRC2085	Zinc It 350gm

Brush on Paint	
CODE	COLOUR
CRC2185	Zinc It 1 litre

## Haydn Paint Brushes



Haydn Paint Brushes	
CODE	SIZE
PNTBRUSH038	38mm
PNTBRUSH050	50mm
PNTBRUSH063	63mm
PNTBRUSH075	75mm
PNTBRUSH100	100mm

## Res-Q-Steel 800g

Res-Q-Steel 800g
CODE
CORQS



## Rex White Thread Cutting Oil 4L

Rex White Thread Cutting Oil 4 Litre
CODE
OILREX



## Dulux CR Reducer

20 Litre
CODE
PNTROT/15L

4 Litre
CODE
PNTROT/4L



## Dulux Primer Range

DULUX Metalshield FD ZP Primer is an anti-corrosive shop or field primer used for the protection of structural steel in mild industrial and commercial environments and is ideal where fast turnaround time is needed and a high zinc phosphate content is required for good corrosion protection.

15 Litre	
CODE	COLOUR
PNTBO/15L	Black Oxide FDZP
PNTGO/15L	Grey Oxide FDZP
PNTRO/15L	Red Oxide FDZP

4 Litre	
CODE	COLOUR
PNTGO/4L	Grey Oxide FDZP
PNTRO/4L	Red Oxide FDZP
PNTETCHG/4L	Ultra Etch Primer



## Flexovit Reinforced Cut-Off Wheel



Flexovit Reinforced Cut-Off Wheel	
CODE	SIZE
TOCO10010	102 x 1mm
TOCO11510	115 x 1mm
TOCO12510	127 x 1mm
TOCO18025	178 x 2.5mm
TOCO18025	230 x 2.5mm
TOCO35630	356 x 3mm

## Flexovit Reinforced Grinding Wheel



Flexovit Reinforced Grinding Wheel	
CODE	SIZE
TOGD100	100 x 6 x 16mm
TOGD115	115 x 6 x 22mm
TOGD125	125 x 6.8 x 22mm
TOGD18	180 x 6.8 x 22mm
TOGD230	230 x 6.8 x 22mm

## Flexovit Reinforced Flap Disk



Flexovit Reinforced Flap Disk	
CODE	SIZE
TOFD11560	115 x 22mm P60
TOFD11580	115 x 22mm P80
TOFD12560	125 x 22mm P60
TOFD12580	125 x 22mm P80

## Arc Welding Electrodes PH28

A universal electrode which has medium-heavy rutile coating, which yields a fairly rapid solidifying slag. It is very easy to apply in the vertical up and overhead positions, where a short arc length is beneficial. The weld appearance is very good for all positions. PH 28 has excellent X-Ray properties.

Arc Welding Electrodes PH28	
CODE	SIZE
WELDROD28/2.5	2.5mm
WELDROD28/3.2	3.2mm
WELDROD28/4.0	4mm

## Arc Welding Electrodes PH68

This medium-heavy coated rutile electrode produces a rapid freezing slag. Its large droplet type of arc makes it ideal for poor fitting work or where large gaps have to be bridged. It is perfect for site work because with one current setting welds can be done in all positions. Excellent for galvanised steel.

Arc Welding Electrodes PH68	
CODE	SIZE
WELDROD68/2.5	2.5mm
WELDROD68/3.2	3.2mm
WELDROD68/4.	4mm

## Arc Welding Electrodes PH77

An iron powder-bearing low hydrogen electrode for welding steel, low alloy, medium tensile steels and for steels to LT 40 spec in all positions. The metal recovery is approx. 115% and the deposited welds are first class for X-Ray. PH77 is welded with a short arc and due to its higher current characteristics welding is much faster than normal.

Arc Welding Electrodes PH77	
CODE	SIZE
WELDROD77/2.5	2.5mm
WELDROD77/3.2	3.2mm
WELDROD77/4.0	4mm
WELDROD77/5.0	5mm

## Mig Wire

15kg spool (300 mm Ø) of mild steel MIG wire, made from premium quality copper coated MIG wire produced from high quality double deoxidised rod. The higher manganese and silicon levels ensure improved weld metal deoxidation.

- Recommended for welding of mild and medium tensile strength steels
- Excellent choice for general steel construction, sheet metal applications, pressure vessel fabrication, structural welding and pipe welding

Mig Wire	
CODE	SIZE
MW0.8	0.8mm
MW0.9	0.9mm
MW1.0	1.0mm
MW1.2	1.2mm

**A full range of welding consumables is available on request.**

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[illegible]



# Valves



## A-Gate Brass Gate Valve - AGVFF



MATERIALS	
PART	MATERIAL
Body	Brass
Bonnet	Brass
Wedge	Brass
Stem	Brass
Hand Wheel	Ductile Iron
Threading	ISO 228

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	180°C
Cold Working Pressure	16 bar
Size	15-100 NB

## DZR Gate Valve - MVBGT



MATERIALS	
PART	MATERIAL
Body	DR Brass
Bonnet	DR Brass
Wedge	DR Brass
Stem	DR Brass
Hand Wheel	Ductile Iron
Packing	Graphoil
Threading	BS21 Rp

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	180°C
Cold Working Pressure	16 bar
Size	15-100 NB

Tee handle available on request.

## Stainless Steel Gate Valve - HSGAVSS



MATERIALS	
PART	MATERIAL
Stem	316 Stainless Steel
Body	CF8M
Bonnet	CF8M
Wedge	CF8M
Gasket	PTFE

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	180°C
Cold Working Pressure	14 bar
Size	15-50 NB

## Gate Valve Flanged OS&Y - MVCI



MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Disc	EPDM Coated Ductile Iron
Handwheel	Ductile Iron

SPECIFICATIONS	
Ends	Flanged AS2129 Table E
End Options	Straight or Elbow Ends
MAX Cold Working Temperature	90°C
Size	80-300 NB

Other sizes available on request.





## CMO Stainless Steel Knife Gate Valve - CMVA

MATERIALS	
PART	MATERIAL
Body	CF8M
Gland Packing	Synthetic + PTFE
Gland	CF8M
Gate	316 Stainless Steel
Yoke	Steel
Hand Wheel	Ductile Iron
Stem	304 Stainless Steel
Clevis	CF8
Seat	EPDM

SPECIFICATIONS	
Flange	ANSI 150 & AS2129 T/E
MAX Working Temperature	90°C
Cold Working Pressure	5 to 10 Bar depending on size
Size	80-300 NB



## Fabri Stainless Steel Knife Gate Valve (Bi-Directional Type) - FAV

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Gland Packing	Acrylic + PTFE
Gland	316 Stainless Steel
Gate	316 Stainless Steel
Yoke	304 Stainless Steel
Hand Wheel	Cast Iron
Stem	304 Stainless Steel
Clevis	304 Stainless Steel
Seat	White EPDM

SPECIFICATIONS	
MAX Working Temperature	138°C
Cold Working Pressure	10.3 bar
Size	80-300 NB



## Stafsjo Stainless Steel Throughgoing Knife Gate Valve

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Gland Packing	PTFE
Gland	316 Stainless Steel
Gate	316 Stainless Steel
Yoke	304 Stainless Steel
Hand Wheel	Ductile Iron
Stem	420 Stainless Steel
Seat	PTFE with Viton o-ring

SPECIFICATIONS	
Flange	Various
MAX Working Temperature	180°C with Viton Seat
Cold Working Pressure	6 to 10 Bar depending on size
Size	80-800 NB

Indent only. Cast iron body available on request.



## Liquetec Bronze Globe Valve Screwed - LVS11



MATERIALS	
PART	MATERIAL
Body	LG2 Gunmetal Bronze
Bonnet	LG2 Gunmetal Bronze
Bonnet Nut	LG2 Gunmetal Bronze
Plug Disc	410 SS
Stem	CZ121 Brass
Gland	CZ121 Brass
Hand Wheel	Aluminium
Packing	PTFE

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	260°C
Cold Working Pressure	41 Bar
Size	8-50 NB

Applications – For use on normal steam conditions up to saturation temperature

## Liquetec Bronze Globe Valve Flanged - LVS12



MATERIALS	
PART	MATERIAL
Body	LG2 Gunmetal Bronze
Bonnet	LG2 Gunmetal Bronze
Bonnet Nut	LG2 Gunmetal Bronze
Plug Disc	LG2 Gunmetal Bronze
Stem	CZ121 Brass
Gland	CZ121 Brass
Hand Wheel	Aluminium
Packing	PTFE

SPECIFICATIONS	
Flanged undrilled	BSP
MAX Working Temperature	260°C
Cold Working Pressure	15 Bar
Size	15-50 NB

Applications – For use on normal steam conditions up to saturation temperature

## Stainless Steel Globe Valve - HSGLVSS

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Disc	316 Stainless Steel
Stem	316 Stainless Steel
Cap	316 Stainless Steel
Gasket	PTFE
Washer	316 Stainless Steel
Stem Packing	PTFE
Ring	316 Stainless Steel
Gland Ring	316 Stainless Steel
Hand wheel	Aluminium Alloy
Name Plate	Aluminium Alloy
Nut	304 Stainless Steel

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	180°C
Cold Working Pressure	14 Bar
Size	15-50 NB



## Stainless Steel Needle Valve - VMNV

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Bonnet & Stem	304 Stainless Steel
Stem Packing	PTFE
Gland & Nut	316 Stainless Steel
Handle	304 Stainless Steel

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	230°C
Cold Working Pressure	408 Bar
Size	6-25 NB



## Europa Brass Spring Check Valve - BVEC



MATERIALS	
PART	MATERIAL
Body	Brass CW 617N
Pin	Brass CW614N
Plate	304 Stainless Steel
Seat	NBR
Spring	302 Stainless Steel

SPECIFICATIONS	
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.

## RUB Brass Spring Check Valve - BVVC



MATERIALS	
PART	MATERIAL
Body	Brass CW 617N
Plate	Polymeric resin
Seat	NBR
Spring	Stainless Steel AISI 302

SPECIFICATIONS	
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.

## Foot Valve Strainer - BVVS



MATERIALS	
PART	MATERIAL
Body	Nylon
Mesh	304 Stainless Steel

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	80°C
Size	10-100 NB

Applications – To convert Europa & RUB. Spring check valves to foot valves.

## RUB Brass Swing Check Valve Metal Seat - BVCM

MATERIALS	
PART	MATERIAL
Body	Brass
Bonnet	Brass
Hinge Pin Nut	Brass

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	200°C
Cold Working Pressure	12 bar
Size	15-80 NB

For horizontal installation.  
Applications - oil, water.



## RUB Brass Swing Check Valve Soft Seat - BVCS

MATERIALS	
PART	MATERIAL
Body	Brass
Bonnet	Brass
Hinge Pin Nut	Brass

SPECIFICATIONS	
Seat	NBR
MAX Working Temperature	80°C
Cold Working Pressure	12 bar
Size	15-50 NB

For horizontal installation.  
Applications - oil, water.



## Stainless Steel Swing Check Valve - HSCV

MATERIALS	
PART	MATERIAL
Body	SS CF8M
Bonnet	SS CF8M
Hanger Pin	316 Stainless Steel
Disc	CF8M
Plug	316 Stainless Steel
Plug Gasket	PTFE

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	230°C
Cold Working Pressure	63 bar
Size	15-50 NB

Applications – water, oil, chemicals, corrosive environment and liquids.



## Stainless Steel In-line Spring Check Valve - VMCV

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Disc	316 Stainless Steel
Spring	316 Stainless Steel
Spring Cap	316 Stainless Steel
Cap	316 Stainless Steel
Joint Gasket	PTFE

SPECIFICATIONS	
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.



## A-Check Wafer Dual Plate Check Valve - ACVCI



MATERIALS	
PART	MATERIAL
Body	Cast Iron
Spring	316 Stainless Steel
Disc	Ductile Iron/ 316 Stainless Steel
Seat	EPDM
Shaft	304/316 Stainless Steel
Flange Gasket	EPDM

SPECIFICATIONS	
Fits Flanges	T/E, ANSI 125, PN16
MAX Working Temperature	80°C
Cold Working Pressure	16 Bar
Size	50-300 NB

## A-Check Wafer Swing Check Valve - ACVB



MATERIALS	
PART	MATERIAL
Body	Cast Iron
Spring	316 Stainless Steel
Disc	304/316 Stainless Steel
Seat	NBR
Shaft	304/316 Stainless Steel
Flange Gasket	NBR

SPECIFICATIONS	
Fits Flanges	T/E, ANSI 125, PN16
MAX Working Temperature	80°C
Cold Working Pressure	16 Bar
Size	50-300 NB

## A-Check Wafer Swing Check Valve - ACVSW



MATERIALS	
PART	MATERIAL
Body	Cast Iron
Spring	316 Stainless Steel
Disc	304 Stainless Steel
Seat	EPDM
Flange Gasket	EPDM
Hinge Pin	304 Stainless Steel

SPECIFICATIONS	
Flange	AS2129 T/E
MAX Working Temperature	80°C
Cold Working Pressure	16 Bar
Size	50-300 NB

Supplied complete with Rubber Flange Gasket.  
Applications – water & oil.

## A-Check Stainless Steel Wafer Check Dual Plate Valve - ACVSS

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Spring	316 Stainless Steel
Discs	316 Stainless Steel
Shaft	316 Stainless Steel
Seat	316 Stainless Steel

SPECIFICATIONS	
Flange to suit	ANSI 150
MAX Working Temperature	180°C
Cold Working Pressure	19 Bar
Size	50-200 NB

Viton seat available on request.



## Ball Check Valve - ACVBC

MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Cover	Ductile Iron
Ball	Metal + NBR
Gasket	EPDM

SPECIFICATIONS	
MAX Working Temperature	80°C
Cold Working Pressure	16 Bar
Ends	BSP / AS2129 T/E & D
Size	50-300 NB

Applications – Waste Water Treatment Plants



## RUB Brass Y Strainer - BYS



MATERIALS	
PART	MATERIAL
Body & Cap	Brass
Mesh	Stainless Steel

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	110°C
Cold Working Pressure	up to 20 Bar
Size	15-65 NB

## Bronze Y Strainer - PYS



MATERIALS	
PART	MATERIAL
Body & Cap	Bronze
Mesh	Stainless Steel

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	170°C
Cold Working Pressure	up to 20 Bar
Size	15-50 NB



## Stainless Steel Y Strainer - ABVS

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Cap	316 Stainless Steel
Gasket	PTFE
Mesh	304 Stainless Steel

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	230°C
Cold Working Pressure	40 Bar
Size	15-50 NB



## Cast Iron Y Strainer - HWS

MATERIALS	
PART	MATERIAL
Body & Cover	Ductile Iron (epoxy coated)
Screen	304 Stainless Steel
Gasket	EPDM
Plug	Malleable Iron

SPECIFICATIONS	
Flanged	AS2129 T/E
MAX Working Temperature	80°C
Cold Working Pressure	16 Bar
Size	50-250 NB



## RUB S.84 Gas Ball Valve AGA Approved - MVGAS

MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass (Chromium plated)
Stem	Brass
Packing	Viton (Double O-Ring)
Lever	Geomet Coated Steel
Lever Retaining Nut	Brass (Nickel Plated)

SPECIFICATIONS	
Thread	BSPT Male/Female
Max Working Temperature	150°C
AGA Pressure Gas	8-50 NB 1500kPa 65-100 NB 2100kPa
Working Pressure Liquids	25 Bar
Size	8-100 NB

T-handle / lockable handle available on request.  
Application – For low to medium gas applications.  
Can also be used for certain chemicals and oils.  
Hot & cold water, compressed air.

Licence – Australian Gas Association AGA 5244



## Peakflo Brass Ball Valve - PV



MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass
Stem	Brass
Gland	Brass
Packing	Nitrile O ring
Lever	Stainless Steel (Plastic Coated)
Lever Retaining Nut	Stainless Steel

SPECIFICATIONS	
Thread	BSPP
MAX Working Temperature	60°C
Cold Working Pressure	PN16 to PN50 acc. to size
Size	8-100 NB

Applications – Irrigation services.

## RUB S.50 Brass Ball Valve Short Pattern - BVS



MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass (Chromium plated)
Stem	Brass
Packing	Viton (Double O Ring)
Lever	Geomet Coated Steel
Lever Retaining Nut	Geomet Coated Steel

SPECIFICATIONS	
Thread	BSPP MxF & FxF
MAX Working Temperature	170°C
Cold Working Pressure	30 Bar
Size	8-100 NB

T-handle / lockable handle available on request (see page 243).

## RUB S.51 Brass Ball Valve Long Pattern - BVT

MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass (Chromium plated)
Stem	Brass
Packing	Viton (Double O Ring)
Lever	Geomet Coated Steel
Lever Retaining Nut	Geomet Coated Steel

SPECIFICATIONS	
Thread	BSPP MxF & FxF
MAX Working Temperature	170°C
Cold Working Pressure	30 Bar
Size	8-100 NB

T-handle / lockable handle available on request (see page 243).



## RUB 3 Way Brass Ball Valve L & T Port - BVL/BVT

MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass (Chromium plated)
Stem	Brass
Gland	Brass
Packing	Viton (Double O Ring)
Lever	Painted Aluminium
Lever Retaining Nut	Plated Steel

SPECIFICATIONS	
Thread	BSPP
MAX Working Temperature	120°C
Cold Working Pressure	30-50 Bar
Size	15-50 NB



## Bonomi Robex Brass Triple Valve - BVR

MATERIALS	
PART	MATERIAL
Body	Brass
Seat Retainer	Brass
Seat	PTFE
Ball	Brass (Chromium plated)
Stem	Brass
Gland	Brass
Packing	Viton (Double O Ring)
Lever	Painted Aluminium
Lever Retaining Nut	Geomet Coated Steel

SPECIFICATIONS	
Thread	BSPP
MAX Working Temperature	100°C
Cold Working Pressure	up to 16 Bar
Size	15-50 NB

Combining a ball valve, check valve, test point & drain.



## RUB S.6405 Brass Ball Valve with Mounting Pad - BVSW



MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass (Chrome plated)
Packing	Viton (Double O Ring)
Lever	Optional - indent on Request

SPECIFICATIONS	
Thread	BSPP
Mounting	ISO Direct Mount
MAX Working Temperature	120°C
Cold Working Pressure	30-50 Bar
Size	15-50 NB

## RUB Brass Bib Cock - BVEK



MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass (Chrome plated)
Packing	Viton (Double O Ring)
Lever	Plated Aluminium
Lever Retaining Nut	Plated Steel

SPECIFICATIONS	
Thread	BSPP
MAX Working Temperature	80°C
Cold Working Pressure	up to 15 Bar
Size	10-25 NB

## Brass Ball Valve for Insulated Pipe - ABV



MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass (Chrome plated)
Packing	Viton (Double O Ring)
Lever	Geomet Coated Steel
Lever Retaining Nut	Geomet Coated Steel

SPECIFICATIONS	
Thread	BSPP
MAX Working Temperature	170°C
Cold Working Pressure	30 Bar
Size	15-25 NB

Other sizes available on request.

## Stainless Steel Full Bore Ball Valve 2 Piece - VMBVSS2

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Ball	316 Stainless Steel
Stem	316 Stainless Steel
Seat	RPTFE
Packing	PTFE
Lever	SS with Locking Device

SPECIFICATIONS	
Thread	BSPT
MAX Working Temperature	210°C
Cold Working Pressure	69 Bar
Size	8-80 NB

Applications – For air, water, hot/cold corrosive fluids in harsh environments.



## Stainless Steel Full Bore Ball Valve 3 Piece - VMBVSS

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Ball	316 Stainless Steel
Stem	316 Stainless Steel
Seat	RPTFE
Packing	PTFE
Lever	Stainless Steel with Locking Device

SPECIFICATIONS	
Thread	BSPT
MAX Working Temperature	210°C
Cold Working Pressure	69 Bar
Size	8-80 NB

Also available with socket weld ends.  
Applications – For air, water, hot/cold corrosive fluids in harsh environments.



## Stainless Steel Full Bore Ball Valve w/ Mounting Pad - VMBVISO

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Ball	316 Stainless Steel
Stem	316 Stainless Steel
Seat	RPTFE
Packing	Live Loaded PTFE
Lever	Stainless Steel with Locking Device

SPECIFICATIONS	
Thread	BSPT
MAX Working Temperature	210°C
Cold Working Pressure	69 Bar
Size	8-100 NB

To ISO5211.  
Also available with socket weld ends.  
Applications – For air, water, hot/cold corrosive fluids in harsh environments.



## A-Ball Stainless Steel Ball Valve 3 Piece - ABVSS

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Ball	316 Stainless Steel
Stem	316 Stainless Steel
Seat	RPTFE
Lever	SS with Locking Device

SPECIFICATIONS	
Ends	BSPT Socket Weld Pipe Socket Weld Tube
MAX Working Temperature	210°C
Cold Working Pressure	69 Bar
Size	8-80 NB



Applications – For air, water, hot/cold corrosive fluids in harsh environments.

## A-Ball Stainless Steel 3 Way Ball Valve L/T Port - ABVSSL/ABVSSST

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Ball	316 Stainless Steel
Stem	316 Stainless Steel
Seat	RPTFE
Lever	SS

SPECIFICATIONS	
Thread	BSPP
MAX Working Temperature	210°C
Cold Working Pressure	55 Bar
Size	10-50 NB



Steam seats available on request.



## Mech Wafer Butterfly Valve - VBFDW



MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Handle	Ductile Iron
Stem	420 Stainless Steel
Disc	316 Stainless Steel
Seat	EPDM or NBR
Bushing	Epoxy Glass Fibre Composite
Notch Plate	316 Stainless Steel
O-Ring	EPDM or Nitrile

SPECIFICATIONS	
Flanges	AS2129 D/E EN 1092 PN 10/16 ANSI 125/150
Cold Working Pressure	1600 Kpa
MAX Working Temperature EPDM	EPDM 110°C
MAX Working Temperature Nitrile	Nitrile 80°C
Size	50-300 NB

Gear boxes available on request.

## Mech Lugged Wafer Butterfly Valve - VBFDL



MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Handle	Ductile Iron
Stem	420 Stainless Steel
Disc	316 Stainless Steel
Seat	EPDM or NBR
Bushing	Epoxy Glass Fibre Composite
Notch Plate	316 Stainless Steel
O-Ring	EPDM or Nitrile

SPECIFICATIONS	
Flanges	AS2129 E EN 1092 PN 16
Cold Working Pressure	1600 Kpa
MAX Working Temperature EPDM	EPDM 110°C
MAX Working Temperature Nitrile	Nitrile 80°C
Size	50-300 NB

Gear boxes available on request.

A full range of pneumatic & electric actuation options is available



## Bray Series 30 / 31 Butterfly Valves 1 Piece Body - BRVW30 / BRVL31

MATERIALS	
PART	MATERIAL
Body	Cast Iron ASTM A126 Class B
Handle	Ductile Iron ASTM A536
Stem	SS316
Disc	SS316 or NDI
Seat	EPDM/NBR
Stem Bushing	Acetal (Delrin)
Notch Plate	Nickel Plated Steel
Stem Seal	EPDM or Nitrile

SPECIFICATIONS	
Cold Working Pressure sizes 50-300mm	1200 Kpa
MAX Working Temperature EPDM	EPDM 121°C
MAX Working Temperature Nitrile	Nitrile 100°C
MAX Working Temperature Viton	Viton 204°C
Size	50-300 NB

Wafer bodies suitable for BS10 T/D, T/E & ANSI 125 flanges. BS10 T/E Lugged bodies are Tapped Metric. ANSI 150 bodies are Tapped UNC. Sizes 350-500mm available on request.



## Bray Series 20 / 21 Piece Body - BRVW20 / BRVL21

MATERIALS	
PART	MATERIAL
Body	Cast Iron ASTM A126 Class B
Handle	Ductile Iron ASTM A536
Stem	SS316
Disc	SS316 or NDI
Seat	EPDM/NBR
Stem Bushing	Acetal (Delrin)
Notch Plate	Nickel Plated Steel
Stem Seal	EPDM or Nitrile

SPECIFICATIONS	
Cold Working Pressure sizes 50-300mm	1200 Kpa
MAX Working Temperature EPDM	EPDM 121°C
MAX Working Temperature Nitrile	Nitrile 100°C
MAX Working Temperature Viton	Viton 204°C
Size	25-300 NB

Gear Operators available on request. These bodies have special Nylon 11 coating for high corrosion protection. Wafer bodies suitable for BS10 T/D & T/E flanges. Available also with PTFE Seats, PTFE Encapsulated Discs and EPDM Encapsulated Discs.



## Bray Pneumatic Actuators, Proximity Sensors & Positioners

Spring return actuators available as fail open or fail close.





## VYC Relief Valves Model 095 - VYCO95AP

MATERIALS LIST	
PART	MATERIAL
Type	AP – Open Cap with Lever
Design	ISO 4126-1:2004
Complies with	Directive 97/23/EC & ATEX 94/9/CE
Body & Trim Material	Brass EN-CW617N
Connections	BSP M/F
Seat	PTFE

SPECIFICATIONS AP	
Pressure Range Air & Gases	0.5 to 16 Bar
Pressure Range Steam	0.5 to 13 Bar
MAX Temperature	230°C
Size	15-50 NB



## VYC Relief Valves Model 095 - VYCO95ES

MATERIALS LIST	
PART	MATERIAL
Type	ES – Closed Cap
Design	ISO 4126-1:2004
Complies with	Directive 97/23/EC
Body & Trim Material	Brass EN-CW617N
Connections	BSP M/F
Seat	PTFE

SPECIFICATIONS ES	
Pressure Range Liquids	0.5 to 16 Bar
Pressure Range Steam	0.5 to 13 Bar
MAX Temperature	230°C
Size	15-50 NB



## VYC Relief Valve Model 695 AV - VYC695AV

MATERIALS LIST	
PART	MATERIAL
Type	AV – Closed Cap
Design	ISO 4126-1:2004
Complies with	Directive 97/23/EC
Body Material	Brass EN-CW617N
Connections	BSP M/F
Seat	Viton

SPECIFICATIONS	
Pressure Range Liquids	0.5 to 36 Bar
Temperature	150°C
Size	15 NB



Flanged versions & larger sizes available on indent.



## Luxor Flexible Hoses - LHS



MATERIALS	
PART	MATERIAL
Hose	Silicon
Braided Outer	316 Stainless Steel
Ends	Chrome Plated Brass
Gaskets	EPDM or Fibre

SPECIFICATIONS	
Threads	BSP Union Ends
End Options	Straight or Elbow Ends
Max Pressure	PN10
Max Temperature	90oC
Length	400mm / 600mm
Size	15 - 25NB

Other sizes available on request

## HerzCON PICV Fan Coil Connection Assembly - VHC



MATERIALS	
PART	MATERIAL
Component Body Material	DZR Brass
Trim	316 Stainless Steel
Valve Seats	PTFE
Membranes	EPDM
O Rings	EPDM
Insulation Cover	Polystyrene

SPECIFICATIONS	
Threads	BSP
Configuration	Herz PIBCV (manual as standard), Strainer c/w Blow Down / Drain Valve, 2 x 3 Way Isolating Valves, and Binda Test Points
Options	On/Off, 3-Point or Modulating 0-10V DC Actuating or Motoric Drives can be fitted and intergrated to any BMS system if required.
Max Pressure	PN16
Max Temperature	130oC
Flow Rate	0.045 - 0.205 l/sec
Size	15 - 20NB

Other sizes available on request.  
The HerzCON is sized to suit your given flow rate



## Herz Isolating Regulating Valve Fixed Orifice - HVS

MATERIALS	
PART	MATERIAL
Body	DR Brass
Balancing cone	DR Brass
Disc O-ring	EPDM
Disc Stem	DR Brass
Stem O-ring	EPDM
Stem	Brass
Bonnet	DR Brass
Handwheel	ABS
Test point / plug	DR Brass

SPECIFICATIONS	
Thread	BSP
Design	BS7350
MAX Working Temperature	120°C
MAX Working Pressure	20 Bar
Size	15-50 NB

Herz Fig 4017M with Digital Presetting Display in Handwheel



## Herz Isolating Regulating Valve Variable Orifice - HVS

MATERIALS	
PART	MATERIAL
Body	DR Brass
Balancing cone	DR Brass
Disc O-ring	EPDM
Disc Stem	DR Brass
Stem O-ring	EPDM
Stem	Brass
Bonnet	DR Brass
Handwheel	ABS
Test point / plug	DR Brass

SPECIFICATIONS	
Thread	BSP
Design	BS7350
MAX Working Temperature	120°C
MAX Working Pressure	20 Bar
Size	65-80 NB

Herz Fig 4017M with Digital Presetting Display in Handwheel



## Herz Isolating Regulating Valve Variable Orifice - HVS

MATERIALS	
PART	MATERIAL
Body	Cast Iron GKL250
Balancing cone	CI EPDM Coated
Stem	Brass/SS
Stem O-ring	EPDM
Bonnet	Cast Iron GKL250
Handwheel	DI
Test point / plug	DR Brass

SPECIFICATIONS	
Flanged	PN16
Design	BS7350
MAX Working Temperature	130°C
MAX Working Pressure	16 Bar
Size	65-150 NB

Herz Fig 4218 GMF with Digital Presetting Display in Handwheel



## Herz Radiator Valves Type DR-T-90 - HVR/HVT

MATERIALS	
PART	MATERIAL
Body	Nickel Plated Brass
Seat	EPDM
Cone	Brass
Handwheel	ABS

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	120°C
MAX Working Pressure	16 Bar
Size	15-25 NB

Control heads available on request.  
 Radiator Control valves with Pre-setting Function.  
 Suitable for Conversion to Thermostatic Operation.



## Frese Alpha Automatic Balancing Valves - FVA

MATERIALS	
PART	MATERIAL
Body	DR Brass
Cap	DR Brass
Orings	EPDM
Cartridge	Nickel Plated brass
Diaphragm	HNBR
Spring	Stainless Steel
Test Points	DR Brass

SPECIFICATIONS	
Ends	ISO228
Diff. Pressure Range	7-600 kPa
MAX Working Temperature	120°C
Pressure Class	25 Bar
Size	15-50 NB

Cartridge and Orifice additional and sized to suit flow.



## Frese Alpha Automatic Balancing Valve Wafer Ends - FVA

MATERIALS	
PART	MATERIAL
Body	DI GGG-40
Orings	EPDM
Cartridge Body	Nickel Plated brass
Diaphragm	HNBR
Spring	Stainless Steel
Test Points	DR Brass

SPECIFICATIONS	
Ends	Wafer
Diff. Pressure Range	13-600 kPa
MAX Working Temperature	110°C
Pressure Class	25 Bar
Size	50-150 NB

Cartridge and Orifice additional and sized to suit flow.



## Frese S Automatic Balancing Valve Adjustable Orifice - FS

MATERIALS	
PART	MATERIAL
Body	DR Brass
DP Controller	PPS 40% glass
Orings	EPDM
Flow Setting	PPO
Diaphragm	HNBR
Spring	Stainless Steel
Test Points	DR Brass

SPECIFICATIONS	
Ends	ISO228
Diff. Pressure Range	8-400 kPa
MAX Working Temperature	120°C
Pressure Class	25 Bar
Size	15-50 NB

Cartridge and Orifice additional and sized to suit flow.



## Frese Optima PICV Control Valve - FVOHF



MATERIALS	
PART	MATERIAL
Housing & Flow Setting	DR Brass
DP Controller	PPS 40% Glass
Orings	EPDM
Diaphragm	HNBR
Spring	Stainless Steel
Test Points	DR Brass

SPECIFICATIONS	
Ends	BSP
Diff. Pressure Range	400 kPa
MAX Working Temperature	120°C
Pressure Class	25 Bar
Size	15-50 NB

## Frese Optima Electro-Mechanical Actuators - FOA53



Technical Data-To Suit Valve Sizes 15-32mm	
Protection Class	IP 40 to EN 60529
Frequency	50/60Hz
Control Signal	0-10VDC or 3 Position
Actuating Force	250N
Running Time	75s or 150s
Manual Operation	3mm Hex Key
Weight	350g

Technical Data-To Suit Valve Sizes 40-50mm	
Protection Class	IP 54 to EN 60529
Frequency	50Hz
Control Signal	0-10VDC, or 3 Position
Actuating Force	400N
Running Time	43s or 170s
Manual Operation	Handle
Weight	600g

Electrical, Modulating, Normally Closed

## Frese Optima Compact PICV Control Valve - FVOC53



MATERIALS	
PART	MATERIAL
Housing & Flow Setting	DR Brass
DP Controller	PPS 40% Glass
Orings	EPDM
Diaphragm	HNBR
Spring	Stainless Steel
Test Points	DR Brass

SPECIFICATIONS	
Ends	BSP
Max Diff. Pressure	400 kPa
MAX Working Temperature	120°C
Pressure Class	25 Bar
Size	10-32 NB



## Frese Optima 'Compact' Thermo Actuators - FOA48/FOA53

Modulating 0-10V To Suit Valve Sizes 15-32mm	
Protection Class	IP40
Frequency	50/60Hz
Control Signal	0-10V DC or 3 Pos.
Actuating Force	100N
Running Time	75s & 150s
Manual Operation	3mm Key
Weight	350g

On/Off 24V & 230V To Suit Valve Sizes 15-32mm	
Protection Class	IP54
Frequency	50/60Hz
Control Signal	0-10V DC or On/Off
Actuating Force	100N
Running Time	120s & 180S
Manual Operation	NA
Weight	100g

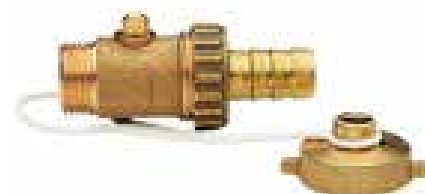


## Bonomi Fill & Drain Cock - BVD

MATERIALS	
PART	MATERIAL
Body & Ball	Brass
Seat	PTFE
Hose Tail & Cap	Brass

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	90°C
MAX Working Pressure	10 Bar
Size	15 NB

Complete with Hose Tail & Cap



## Frese Fill & Drain Cock in DZR material - FVD/FHU

MATERIALS	
PART	MATERIAL
Body & Ball	DR Brass
Seat	PTFE
Hose Tail & Cap	DR Brass

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	120°C
MAX Working Pressure	16 Bar
Size	15 NB



## Herz Binder Test Points - HVTP

MATERIALS	
PART	MATERIAL
Body	DR Brass
Seat	EPDM
Cap	DR Brass

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	120°C
MAX Working Pressure	16 Bar
Size	8 NB



## Frese Extended Binder Test Points - FPT



MATERIALS	
PART	MATERIAL
Body	DR Brass
Seat	EPDM
Cap	DR Brass

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	120°C
MAX Working Pressure	16 Bar
Size	8 NB

## Itap Manual Air Release Valve - HVAR



MATERIALS	
PART	MATERIAL
Body	Brass Nickel Plated
Oring	PTFE
Handle	ABS

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	110°C
MAX Working Pressure	10 Bar
Size	8 NB and 15 NB

## Herz Orifice Plate Stainless Steel Body - HOP



MATERIALS	
PART	MATERIAL
Body	SS A276 304
Extensions	SS A276 304
Test Points	DR Brass

SPECIFICATIONS	
Design	BS1042
Flow Accuracy to	BS7350
MAX Working Temperature	120°C
MAX Working Pressure	16 Bar
Size	65-250 NB



## Flamco Expansion Vessels - FLEV

MATERIALS		SPECIFICATIONS	
PART	MATERIAL		
Vessel	Steel Epoxy Powder Coated	Thread	BSP
Diaphragm	Butyl Rubber	MAX Working Pressure	3 Bar
Clench Ring	Steel Zinc Coated	MAX Temp at Heating Outlet	120°C
		MAX Temp at Diaphragm	70°C
		Size	8-80L

Flexcon vessels for heating & chilled water systems



## Flamco Expansion Vessels - FLEV

MATERIALS		SPECIFICATIONS	
PART	MATERIAL		
Vessel	Steel Epoxy Powder Coated	Thread	BSP
Diaphragm	Butyl Rubber	MAX Working Pressure	6 Bar
		MAX Temp at Heating Outlet	120°C
		MAX Temp at Diaphragm	70°C
		Size	110-1000L

Flexcon Vessels for Heating & Chilled water systems.



## Flexcon Tank Mounting Options - FLW



## Flamco Automat for Large Systems Giving Precise Control – Compressor Driven



### System comprises:

Vessel, Compressor Unit & Controller

Expansion Capacity from 400 to 3,500 Litres

## Flamco Flamcomat Multi Function System – Pump Driven



### System comprises:

Vessel, Pump Unit & Controller

Expansion Capacity from 150 to 10,000 Litres

## Flamco Flexvent Automatic Air Vent - FLAV

MATERIALS	
PART	MATERIAL
Body	Brass
Float	Plastic
Shut off valve	Brass/Butyl Rubber

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	120°C
MAX Working Pressure	10 Bar
Size	10-15 NB



## Flamco Prescor Safety Valves - FLSV

MATERIALS	
PART	MATERIAL
Body	Brass
Diaphragm	Reinforced Hi Temp Rubber

SPECIFICATIONS	
Thread	BSP
MAX Temperature	140°C
Size	15-32 NB

Pre-set Pressure, Membrane Seal, Quick Release, Non-Adjustable



## Flamco Funnel/Tundish - FLF

MATERIALS	
PART	MATERIAL
Body	Brass

SPECIFICATIONS	
Thread	BSP
Size	15-32 NB

Used on the outlet of all Safety Relief Valves as an Air Break & Visual Inspection



## Automatic Fill Set - FLAF



MATERIALS	
PART	MATERIAL
Pressure Reducing valve	Brass
Check Valve	Brass
Ball valves	Brass
Flex Hose	Rubber inner SS outer

SPECIFICATIONS	
Thread	BSP
MAX Inlet Pressure	15 Bar
Outlet Pressure Adjustable	1 to 4 bar
MAX Working Temperature	80°C
Size	15 NB

Comprising: Pressure Reducing Valve, Check Valve, 2 Ball Valves & Flex Hose

## Flamco Gauge - FLPGTG



MATERIALS	
PART	MATERIAL
Pressure Reducing valve	Brass
Check Valve	Brass
Ball valves	Brass
Flex Hose	Rubber inner SS outer

SPECIFICATIONS	
Thread	BSP
MAX Inlet Pressure	15 Bar
Outlet Pressure Adjustable	1 to 4 bar
MAX Working Temperature	80°C
Size	15 NB

Complete with Immersion Fitting & Shut Off valve

## Flamco Pressure Gauges - FLPG



MATERIALS	
PART	MATERIAL
Pressure Reducing valve	Brass
Check Valve	Brass
Ball valves	Brass
Flex Hose	Rubber inner SS outer

SPECIFICATIONS	
Thread	BSP
MAX Inlet Pressure	15 Bar
Outlet Pressure Adjustable	1 to 4 bar
MAX Working Temperature	80°C
Size	15 NB

## Flamco Flexfast Isolating Union - FLEX

MATERIALS	
PART	MATERIAL
Body	Brass

SPECIFICATIONS	
Thread	BSP
Size	20 NB

Enables disconnecting the vessel without draining the system or releasing the pressure.  
Suitable for vessels up to 25 litres.  
Has 20mm internal & 20mm external thread.



## Flamcovent Micro-Bubble Air Separator - FLAS

MATERIALS	
PART	MATERIAL
Body	Brass
Pall Rings	SS

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	120°C
MAX Working Pressure	10 Bar
Size	20-40 NB

For total evacuation of air from heating & cooling systems using Pall Rings & Coalescence Principle.



## Flamcovent Micro-Bubble Air Separator - FLAS

MATERIALS	
PART	MATERIAL
Body	Brass
Pall Rings	SS

SPECIFICATIONS	
Thread	BSP
MAX Working Temperature	120°C
MAX Working Pressure	10 Bar
Size	50-200 NB

For total evacuation of air from heating & cooling systems using Pall Rings & Coalescence Principle



## Flamco Flexair Air Separators - FLEXAIR

MATERIALS	
PART	MATERIAL
Body	Steel Epoxy Powder Coated
Flexvent	Brass

SPECIFICATIONS	
Ends Flanged	PN10
MAX Working Temperature	120°C
MAX Working Pressure	10 Bar
Size	65-150 NB

For evacuation of air from heating & cooling installations using Centrifuge Principle.  
Suitable for systems with high flow rates – up to 5 m/s,  
& for Glycol solutions up to 50%.



## Flamcovent Clean Air & Dirt Separators - FLASC



MATERIALS	
PART	MATERIAL
Body	Steel Epoxy Coated
Flexvent	Brass

SPECIFICATIONS	
Ends	Flanged PN10
MAX Working Temperature	120°C
MAX Working Pressure	10 Bar
Size	50-200 NB

Specially designed to remove solid particles as well as air from heating systems.

## Flexfiller Digital Pressurisation Units



Compact totally enclosed units with user friendly microprocessor for use with Flexcon Expansion Vessels. Provides a minimum system pressure requirement.

- The processor allows for low & high pressure monitoring & system diagnostics.
- Single or Dual Pump (standby) options.
- Compact wall or floor mount styles.
- Integral water break tank.
- Low water pump protection.
- Alarms for high & low water pressure.
- Output pressures up to 8 bar.
- Top up flow rates from 0.4 L/min to 30 L/min.
- Optional RS485 connectivity for use with BMS.

## Flamco Dosing Pot - FLDP

MATERIALS	
PART	MATERIAL
Body	Mild Steel
Valve	Brass

SPECIFICATIONS	
MAX Working Temperature	90°C
MAX Working Pressure	16 Bar
Size	6-25L

For chemical dosing of heating & cooling systems with manual air bleed valve.



Flamco products are available in solar options for high temperature service.



## RUB Fire Hydrant Landing Valve - BVFH



MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass (Chrome plated)
Stem	Brass
Packing	Viton (Double O Ring)
Lever	Geomet Coated Steel
Lever Retaining Nut	Geomet Coated Steel

SPECIFICATIONS	
Thread	BSPP
MAX Working Temperature	90 C
Cold Working Pressure	25 Bar
Size	65 NB

Male x Female available on request.  
AON Listed No. VAL-31. Brass Full Bore Ball valve with Lockable Lever Handle. Fire Hydrant Riser & Outlet Valve.

## RUB S.50 Lockable Ball Valve Short Pattern - BVSLH



MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass (Chrome plated)
Stem	Brass
Packing	Viton (Double O Ring)
Lever	Geomet Coated Steel
Lever Retaining Nut	Geomet Coated Steel

SPECIFICATIONS	
Thread	BSPP MxF & FxF
Working Temperature	170°C
MAX Working Pressure	30 Bar
Size	8-100 NB

## RUB S.51 Lockable Brass Ball Valve Long Pattern - BVTLH



MATERIALS	
PART	MATERIAL
Body	Brass (Nickel Plated)
Seat Retainer	Brass (Nickel Plated)
Seat	PTFE
Ball	Brass (Chrome plated)
Stem	Brass
Packing	Viton (Double O Ring)
Lever	Geomet Coated Steel
Lever Retaining Nut	Geomet Coated Steel

SPECIFICATIONS	
Thread	BSPP MxF & FxF
Working Temperature	170°C
MAX Working Pressure	30 Bar
Size	8-100 NB



## Monitored Butterfly Valve Screwed Ends - SVBV

MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Disc	EPDM/ Coated Ductile Iron

SPECIFICATIONS	
Thread	BSPP
MAX Working Temperature	80°C
Cold Working Pressure	12 Bar



Factory Installed Double Tamper Switch.  
UL Listed FM Approved



## Monitored Butterfly Valve Grooved Ends – SVBV

MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Disc	EPDM/ Coated Ductile Iron

SPECIFICATIONS	
Ends	Grooved
MAX Working Temperature	80°C
Cold Working Pressure	20 Bar
Size	65-200 NB



Factory Installed Double Tamper Switch –  
Indoor use. UL Listed FM Approved



## Check Valve Grooved Ends - SCV



MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Disc	EPDM/ Coated Ductile Iron



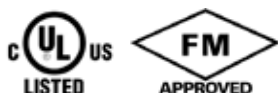
SPECIFICATIONS	
Ends	Grooved
MAX Working Temperature	70°C
Cold Working Pressure	21.4 Bar
Size	80-200 NB

Dual Plate Type, DI Body with Bronze Plates, EPDM seat. UL Listed FM Approved.

## Alarm Check Valve - GLACV



MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Disc	EPDM/ Coated Ductile Iron



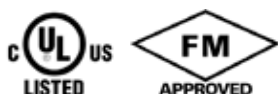
SPECIFICATIONS	
Ends	Grooved and flanged
MAX Working Temperature	70°C
MAX Cold Working Pressure	12 Bar
Size	100-150 NB

UL Listed FM Approved, H1 Flanged Ends, H2 Grooved Ends.

## Single Water Motor Alarm Gong Globe type - WM



MATERIALS	
PART	MATERIAL
Body	Cast aluminium
Bearing	Impeller polymer



SPECIFICATIONS	
Sound Level up to	105 dba
MAX Working Temperature	70°C
MAX Working Pressure	12 Bar
Size	20 NB

Cast Aluminium Body with Lightweight Impeller & Polymer Drive bearings. High Decibel Sound Levels. Complete with installation pipe & fittings. UL Listed FM Approved.

## Gate Valve Flanged OS&Y - VGADRS

MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Disc	EPDM/ Coated Ductile Iron
Ends	Flanged AS2129 T/E



SPECIFICATIONS	
Certified to	UL / ULC / FM Approved
MAX Working Temperature	80°C
MAX Cold Working Pressure	14 Bar
Size	100-200 NB

Other sizes available on request.  
Can be fitted with Potter indoor Anti-tamper Switch,  
or Amtron Outdoor Anti-tamper Switch.



## Grooved End Gate Valve OS&Y - EMGG

MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Disc	EPDM/ Coated Ductile Iron
Ends	Grooved



SPECIFICATIONS	
Certified to	UL / ULC / FM Approved
MAX Working Temperature	80°C
MAX Cold Working Pressure	14 Bar
Size	100-200 NB

Other sizes available on request.  
Can be fitted with Potter indoor Anti-tamper Switch,  
or Amtron Outdoor Anti-tamper Switch.



## UB 3 Way Needle Valve - UBV

MATERIALS	
PART	MATERIAL
Body	Bronze B584-C84400
Bonnet & Stem	Brass B16-C360000
Stem Packing	PTFE
Gland & Nut	Brass B16-C360000
Handle	CI



SPECIFICATIONS	
Thread	BSP
Cold Working Pressure	20 bar
MAX Working Temperature	230°C
Size	8 NB

UL Listed EX5330.



## Valmatic ABF Butterfly Valve - VBFD



MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Disc	Ductile Iron FBE Coated
Shaft	316 Stainless Steel
Bearings	PTFE Impregnated Stainless Steel
Disc Seal	NBR
Seal Retainer	316 Stainless Steel
Fastenings	316 Stainless Steel

SPECIFICATIONS	
Flanges	Ub-Drilled
MAX Pressure	PN17
MAX Temperature	80°C
Certified to	AWWA C504
Size	250 - 600 NB

Other trims/pressure ratings available on request



## Valmatic Camcentric Plug Valve - VPD



MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Packing	NBR Vee Packing
Bearing Seals	NBR Grit Guard (Patented)
Bearings	PTFE Impregnated Stainless Steel
Plug / Shaft	NBR Encapsulated Ductile Iron
Bolts	316 Stainless Steel

SPECIFICATIONS	
Flanges	Ub-Drilled
MAX Pressure	PN10
MAX Temperature	80°C
Certified to	AWWA C517 Certified
Size	80 - 300NB

Other sizes available on request.



## Valmatic Swingflex Check Valve - VCSF



MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Cover	Ductile Iron FBE Coated
Disc	NBR Encapsulated Steel
Cover Bolts	316 Stainless Steel
Cover Gasket	Non-Asbestos Fibre

SPECIFICATIONS	
Flanges	Ub-Drilled
MAX Pressure	PN17
MAX Temperature	80°C
Certified to	AWWA C508 Certified
Size	80 - 600NB

Other sizes available on request



## Valmatic Surgebuster Check Valve - VCSB



MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Cover	Ductile Iron FBE Coated
Disc	NBR Encapsulated Steel
Disc Accelerator	Stainless Steel
Cover Bolts	316 Stainless Steel
Cover Gasket	Non-Asbestos Fibre

SPECIFICATIONS	
Flanges	Ub-Drilled
MAX Pressure	PN17
MAX Temperature	80°C
Certified to	AWWA C508 Certified
Size	80 - 600NB

Other sizes available on request



## Valmatic Silent Check Valve - VCGS



MATERIALS	
PART	MATERIAL
Body	Cast Iron
Disc	Lead Free Bronze
Seat	Lead Free Bronze
Resilient Seat	(NBR / EPDM)
Spring	T316 Stainless Steel

SPECIFICATIONS	
Flanges	Ub-Drilled
MAX Pressure	PN17
MAX Temperature	80°C
Certified to	AWWA C508 Certified
Size	80 - 250NB

Other sizes available on request



## Valmatic Water Air Release Valve - VAN



MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Cover	Ductile Iron FBE Coated
Float	316 Stainless Steel
Seal	NBR
Fastenings	316 Stainless Steel



SPECIFICATIONS	
Thread	NPT
MAX Pressure	PN12
MAX Temperature	80°C
Certified to	AWWA C512 Certified
Size	15-80 NB

Other sizes available on request.  
Air Valves should be sized to suit a required discharge capacity.

## Valmatic Water Air Vacuum Valve - VAV



MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Cover	Ductile Iron FBE Coated
Float	316 Stainless Steel
Seal	NBR
Fastenings	316 Stainless Steel



SPECIFICATIONS	
Thread	NPT
MAX Pressure	up to PN20
MAX Temperature	80°C
Certified to	AWWA C512 Certified
Size	50-80 NB

Other sizes available on request.  
Air Valves should be sized to suit a required discharge capacity.

## Valmatic Water Combination Air Valve - VAC



MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Cover	Ductile Iron FBE Coated
Float	316 Stainless Steel
Seal	NBR
Fastenings	316 Stainless Steel



SPECIFICATIONS	
Thread	NPT
Max Pressure	up to PN20
Max Temperature	80°C
Certified to	AWWA C512 Certified
Size	25-80 NB

Other sizes available on request.  
Air Valves should be sized to suit a required discharge capacity.



## Valmatic Wastewater Air Release Valve - VAN

MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Cover	Ductile Iron FBE Coated
Float	316 Stainless Steel
Seal	NBR
Fastenings	316 Stainless Steel

SPECIFICATIONS	
Thread	NPT
Max Pressure	PN10
Max Temperature	80°C
Certified to	AWWA C512 Certified
Size	Available on request

Air Valves should be sized to suit a required discharge capacity.



## Valmatic Wastewater Air Vacuum Valve - VAV

MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Cover	Ductile Iron FBE Coated
Float	316 Stainless Steel
Seal	NBR
Fastenings	316 Stainless Steel

SPECIFICATIONS	
Thread	NPT
Max Pressure	PN10
Max Temperature	80°C
Certified to	AWWA C512 Certified
Size	Available on request

Air Valves should be sized to suit a required discharge capacity.



## Valmatic Wastewater Combination Air Valve - VAC

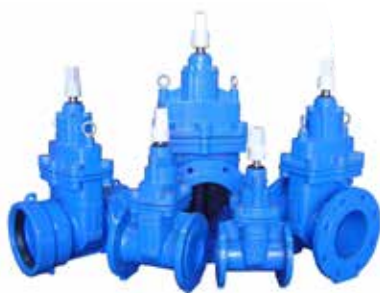
MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Cover	Ductile Iron FBE Coated
Float	316 Stainless Steel
Seal	NBR
Fastenings	316 Stainless Steel

SPECIFICATIONS	
Thread	NPT
Max Pressure	up to PN20
Max Temperature	80°C
Certified to	AWWA C512 Certified
Size	25-100 NB

Other sizes available on request.  
Air Valves should be sized to suit a required discharge capacity.



## Asmuss Sluice Gate Valves - SVFA



MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Bonnet	Ductile Iron FBE Coated
Wedge	EPDM / Ductile Iron
Cover Bolts	Stainless Steel
Bonnet Gasket	EPDM
Stem	Stainless Steel



SPECIFICATIONS	
Flanged or Socket Ends	AS 4087 Series 1 & 2 PVC
Max Pressure	PN16
Max Temperature	80°C
Certified to	AS2638.2 Watermark Approval
Operation	Anti-Clockwise & Clockwise Closing Options
Size	50-600 NB

Other sizes available on request.

## Asmuss House Connection Service Valves - DIHSV

MATERIALS	
PART	MATERIAL
Body	Ductile Iron FBE Coated
Bonnet	Ductile Iron FBE Coated
Wedge	EPDM / Ductile Iron
Cover Bolts	Stainless Steel
Bonnet Gasket	EPDM
Stem	Stainless Steel

SPECIFICATIONS	
Threaded Ends / Restraint Fittings	BSP / to Suit PE Pipe
Max Pressure	PN16
Max Temperature	80°C
Configuration	Straight and Angle Type
Operation	Clockwise Closing
Size	DN50 / 63 OD PE

Other sizes available on request.



## Asmuss Fire Hydrants - DIFH



MATERIALS	
PART	MATERIAL
Body	Ductile Iron
Disc	Ductile Iron
Stopper	NBR / EPDM

SPECIFICATIONS	
Flanges	80mm
Max Pressure	PN16
Max Temperature	80°C
Standard	BS 750
Size	80 NB

Other sizes available on request.



## Asmuss A Disc Wafer Butterfly Valve - ADVWE

MATERIALS	
PART	MATERIAL
Body	Cast Iron FBE Coated
Shaft	416 Stainless Steel
Disc	316 Stainless Steel or Ductile Iron ENP Coated
Fastenings	Stainless Steel
Operation	Lever or Gear Operated

SPECIFICATIONS	
Wafer Pattern	to suit AS2129 Table E
Max Pressure	PN16
Max Temperature	80°C
Size	50-600 NB

Other sizes available on request.



## Asmuss A Disc Lugged Butterfly Valve - ADVLE

MATERIALS	
PART	MATERIAL
Body	Cast Iron FBE Coated
Shaft	416 Stainless Steel
Disc	316 Stainless Steel or Ductile Iron ENP Coated
Fastenings	Stainless Steel
Operation	Lever or Gear Operated

SPECIFICATIONS	
Lugged Pattern	to suit AS2129 Table E
Max Pressure	PN16
Max Temperature	80°C
Size	50 - 600 NB

Other sizes available on request.



## Neway Gate Valve Forged Steel - VGAC800



MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Gate	316 Stainless Steel
Stem	316 Stainless Steel
Packing	Graphite
Trim	API Trim 16

SPECIFICATIONS	
Type	API 602
Ends	NPT SWF
Pressure	Up to 135 Bar
Temperature	-29 to 538°C
Size	15-50 NB

Other trims/pressure ratings available on request

## Neway Globe Valve Forged Steel - VGLC800



MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Gate	316 Stainless Steel
Stem	316 Stainless Steel
Packing	Graphite
Trim	API Trim 16

SPECIFICATIONS	
Type	API 602
Ends	NPT SWF
Pressure	Up to 135 Bar
Temperature	-29 to 538°C
Size	15-50 NB

Other trims/pressure ratings available on request

## Neway Globe Valve Forged Steel - VCPC800



MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Gate	Carbon Steel
Springs	Inconel X750
Trim	API Trim 16

SPECIFICATIONS	
Type	API 602
Ends	NPT SWF
Pressure	Up to 135 Bar
Temperature	-29 to 538°C
Size	15-50 NB

Other trims/pressure ratings available on request

## Neway Gate Valve Cast Steel - VGAC

MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Gate	Carbon Steel
Stem	410 Stainless Steel (F6A) 17-4PH
Packing	Graphite PTFE
Trim	"API Trim 8 API Trim 5"

SPECIFICATIONS	
Type	API 600
Flanges	ANSI 150, 300 & 600
Pressure	Up to 100 Bar
Temperature	-29 to 538°C
Size	50-400 NB

Other sizes/pressure ratings available on request



## Neway Globe Valve Cast Steel - VGLC

MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Plug	Carbon Steel
Stem	410 Stainless Steel
Packing	Graphite
Trim	API Trim 5

SPECIFICATIONS	
Type	API 600
Flanges	ANSI 150, 300 & 600
Pressure	Up to 100 Bar
Temperature	-29 to 538°C
Size	50-150 NB

Other sizes/pressure ratings available on request



## Neway Check Valve Cast Steel - VCSC

MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Gate	Carbon Steel
Hinge Pin	410 Stainless Steel
Trim	API Trim 5

SPECIFICATIONS	
Type	API 600
Flanges	ANSI 150
Pressure	Up to 19 Bar
Temperature	-29 to 538°C
Size	50-100 NB

Other sizes/pressure ratings available on request



## Neway Check Valve Dual Plate - VCLC / VCW

MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Gate	Carbon Steel
Stem	410 Stainless Steel
Springs	Inconel X750
Trim	API Trim 5

SPECIFICATIONS	
Type	API 594
Flanges	ANSI 150, 300 & 600
Pressure	Up to 100 Bar
Temperature	-29 to 538°C
Size	50-200 NB

Other sizes/pressure ratings available on request



## Neway Floating Ball Valve - VBAC



MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Ball	Carbon Steel + ENP 316 Stainless Steel
Stem	Carbon Steel + ENP 316 Stainless Steel
Seat	Reinforced PTFE NYLON PEEK

SPECIFICATIONS	
Type	API 608
Flanges	ANSI 150 to 2500
Pressure	Up to 50 Bar
Temperature	-29 to 120°C
Firesafe	API 607
Size	25-150 NB

Other sizes/pressure ratings available on request

## Neway Floating Ball Valve NPT - VBAC



MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Ball	316 Stainless Steel
Stem	316 Stainless Steel
Seat	Nylon 12 PEEK

SPECIFICATIONS	
Type	ASME B16.34 CL800,1500,2500
Ends	NPT/SWF
Pressure	Up to 430 Bar
Temperature	-29 to 200°C
Firesafe	API 607
Size	15-40 NB

Other sizes/pressure ratings available on request

## Neway Trunnion Ball Valve - VBAC600, 900, 1500, 2500



MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Ball	Carbon Steel + ENP 316 Stainless Steel
Stem	Carbon Steel + ENP 316 Stainless Steel
Seat	Reinforced PTFE Nylon 12 PEEK

SPECIFICATIONS	
Type	API 6D
Flanges	ANSI 600 to 2500
Pressure	Up to 430 Bar
Temperature	-29 to 200°C
Firesafe	API 6FA
Size	50-200 NB

Other sizes/pressure ratings available on request

## Neway Carbon Steel 'Y' Strainer - VMYS



MATERIALS	
PART	MATERIAL
Body & Cover	Carbon Steel
Screen	304 Stainless Steel
Gasket	Graphite

SPECIFICATIONS	
Flanged	ANSI 150
MAX Working Temperature	537°C
Cold Working Pressure	19 Bar
Size	50-150 NB

Stainless Steel available on request.

## Bray Flow-Tek Triad Series Floating Ball Valve - BRVF

MATERIALS	
PART	MATERIAL
Body	Carbon Steel 316 Stainless Steel
Ball	316 Stainless Steel
Stem	316 Stainless Steel
Seat	RPTFE, Filtek®, PEEK

SPECIFICATIONS	
Type	API 600
Ends	Threaded Socket Weld Butt Weld Extended Socket Weld Extended Butt Weld ASME 150/300/600 Flanged
Pressure	Up to 150 Bar
Temperature	-29 to 240°C (Per seat selection)
Firesafe	API 607
Size	15 to 50NB

Indent only



## Bray Flanged Series Floating Ball Valve - BRVF

MATERIALS	
PART	MATERIAL
Body	Carbon Steel 316 Stainless Steel
Ball	316 Stainless Steel
Stem	316 Stainless Steel
Seat	RPTFE, Filtek®, PEEK

SPECIFICATIONS	
Type	ASME B16.34 CL800
Flange	ANSI 150, 300
Pressure	Up to 137 Bar
Temperature	-29 to 240°C (Per seat selection)
Firesafe	API 607
Size	15 to 300NB

Indent only



## Bray Series 30 / 31 Butterfly Valves 1 Piece Body - BRVW30 / BRVL31

Body	Cast Iron ASTM A126 Class B
Handle	Ductile Iron ASTM A536
Stem	SS316
Disc	SS316 or NDI
Seat	EPDM/NBR
Stem Bushing	Acetal (Delrin)
Notch Plate	Nickel Plated Steel
Stem Seal	EPDM or Nitrile

Cold Working Pressure sizes 50-300mm	1200 Kpa
MAX Working Temperature EPDM	EPDM 121°C
MAX Working Temperature Nitrile	Nitrile 100°C
MAX Working Temperature Viton	Viton 204°C
Size	50-300 NB

Wafer bodies suitable for BS10 T/D, T/E & ANSI 125 flanges. BS10 T/E Lugged bodies are Tapped Metric. ANSI 150 bodies are Tapped UNC. Sizes 350-500mm available on request.



## Metso Jamesbury Series 4000 Floating Ball Valve - NJ



MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Ball	316 Stainless Steel
Stem	316 Stainless Steel
Seat	Xtreme®

SPECIFICATIONS	
Type	ASME B16.34 CL800
Ends	NPT SWF
Pressure	Up to 137 Bar
Temperature	-29 to 250°C
Firesafe	API 607
Size	15 to 50NB

Other body materials available on request

## Metso Jamesbury Series 9000 Floating Ball Valve - NJ



MATERIALS	
PART	MATERIAL
Body	Carbon Steel
Ball	316 Stainless Steel
Stem	316 Stainless Steel
Seat	Xtreme®

SPECIFICATIONS	
Type	ASME B16.34
Flanges	ANSI 150
Pressure	Up to 19 Bar
Temperature	-29 to 260°C
Firesafe	API 607, BS6755 Pt 2
Size	15 to 50NB

Other sizes/pressure ratings available on request

## Metso Neles RA Series Segmented Ball Valve - NJRA

MATERIALS	
PART	MATERIAL
Body	316 Stainless Steel
Segmented Ball	329 Stainless Steel + Chromium
Stem	329 Duplex Stainless Steel
Back Seal	Stainless Steel + PTFE
Packing	PTFE Graphite optional
Seats	Cobalt Based Alloy PTFE Optional
Bearing	PTFE + Stainless Steel Net

SPECIFICATIONS	
Type	V-Port Control Valve
Flanges	Flangeless, reduced bore, Metso face to face length Body Class 300/ PN 40
Pressure/Shut off Control	up to PN50 / PN35
Temperature	up to 600°C
Flow Characteristic	Equal Percentage
Approvals	Fire test to BS6755 and API607 4th edition
Options	Pneumatic Actuation, Limit Switch Pneumatic Positioner, Electro-Pneumatic Positioner (Smart)
Size	25-100 NB



Other sizes available on request.  
We have NelProf control valve sizing software to accurately size your control applications.

## Metso Neles L Series Triple Eccentric Butterfly Valve - NJL

MATERIALS	
PART	MATERIAL
Body	WCB Carbon Steel or 316 Stainless Steel
CF8M - 316 Stainless Steel"	329 Stainless Steel + Chromium
Disc	316 Stainless Steel
Stem	17-4Ph
Seat Ring	Hard chrome plated Incoloy 825
Bearing	AISI 316 + PTFE or cobalt based alloy

SPECIFICATIONS	
Flanges	ANSI 150 or ANSI 300
Model	LW Wafer or LG Lugged
Pressure	up to PN40
Temperature	up to 600°C
Material / Test Cert.	EN 10204-3.1B
Ap provals	Fire test to BS6755 and API607 4th edition
Options	Pneumatic Actuation, Limit Switch Pneumatic Positioner, Electro-Pneumatic Postioner (Smart)
Sizes	80 - 200 NB



Other sizes available on request.  
We have NelProf control valve sizing software to accurately size your control applications.



## Metso Neles GU Series Globe Control Valve - NJGU

MATERIALS	
PART	MATERIAL
Body	WCB - Carbon Steel or 316 Stainless Steel
Plug Set	410 Stainless Steel 630 Stainless Steel
Plug	410 Stainless Steel
Seat Ring	410 Stainless Steel
Stem	630 Stainless Steel + HCr
Seat Gasket Body Gasket	S/W Gasket 316 Stainless Steel + Graphite
Seat Ring	410 Stainless Steel
Packing Ring	PTFE + Carbon Fibre

SPECIFICATIONS	
Flanges	ANSI 150 or ANSI 300
Pressure	up to 5000 PSI
Temperature	standard trim 260°C up to 593°C
Cv Ratio	50 : 1
Flow Characteristics	Equal Percentage & Linear Options
Low Emission Option	Low emission gland packing with Live load spring
Actuator Options	Pneumatic Actuation, Limit Switch Pneumatic Positioner, Electro-Pneumatic Positioner (Smart)
Sizes	Available on Request



We have NelProf control valve sizing software to accurately size your control applications.



## Prisma Pneumatic Actuators - PRACT

MATERIALS LIST	
PART	MATERIAL
Body	Aluminium Rilsan coated both internally & externally
Valve mounting	ISO-5211
Switch mounting	VDI/VDE 3845 NAMUR
Torques for Double Acting @ 5.5 Bar Air supply	15.5 Nm – 4600 Nm
Torques for Spring Return @ 5.5 Bar Air supply	5.5 Nm – 4011 Nm

SPECIFICATIONS	
Design	Atex directive 94-9-EC
Rotation	90 degrees
MAX Working Pressure	8 Bar
Working Temperature	-32 to 90°C
Springs	Pre-loaded & captured
Stroke adjustment	From 85 to 92 degrees
Protection	IP67



Aluminium



Stainless Steel



Polyamide

## Prisma Limit Switch - PRCFC

MATERIALS LIST	
PART	MATERIAL
Material	Polyester coated Aluminium

SPECIFICATIONS	
Protection	IP67
Terminal Connections	8 Terminal connections
Position Indication	Coloured with "Open" or "Close"



## Eurotec Solenoid Valve - BSV

MATERIALS LIST	
PART	MATERIAL
Material	Polyamide or Aluminium

SPECIFICATIONS	
Protection	IP65 with cable plug
Voltage	24 DC, 24/110/230 AC 50-60 Hz
Connections	3/2, 5/2, & 5/3
Port Size	Threaded 1/4"



## Analogue Positioner P/P or I/P - YTC

MATERIALS LIST	
PART	MATERIAL
Material	Aluminium

SPECIFICATIONS	
Action	Single or Double acting
Input Signal	3-15 psi or 4-20mA
Supply Pressure	140-700 kPa
Air Connections	1/4" NPT
Conduit Entry	G 1/2"
Enclosure	IP66
Weight	2.7 Kg



Options: Open Close Feedback, Position feedback, Dome Cover

## Rotork Actuators & Controls

Available on request.



## I-Tork Electric Actuators – Rotary Quarter Turn - ITAQ

MATERIALS LIST	
PART	MATERIAL
Material	Polyamide or Aluminium

SPECIFICATIONS	
Voltages	110/220VAC, 1 Ph 50Hz & DC24V
	380/440VAC, 3 Ph 50/60Hz
Sizes – Torques Nm	25-9000
Housing Material	Powder Coated Aluminium
Enclosure	IP67
Limit Switches	Two or Four depending on size
Torque Switches	Two or Four depending on size
Space Heater	Yes
Adjustable Travel Stops	Yes
Manual Override	Yes
Position Indicator	Via large window
Thermal Overload	Yes
Conduit Entry	G 1/2"

Options: Explosion Proof, Watertight, Additional Switches, Potentiometer, Modulating card 4-20mA, Local Control etc



## Asmuss Industrial Solutions

Asmuss Industrial Solutions (AIS) is the new Division based out of the Taranaki Branch. AIS specialises in the manufacture, supply, installation and commissioning of Chemical Injection Systems, Hydrotest Units, Valve Maintenance/Actuation, Pumps, Instrumentation and Electrical. AIS also does onsite maintenance. Contact New Plymouth for more information.



## Instrumentation

A broad range of Instrumentation fittings, gauges and valves, from high pressure needle, plug and ball plug valves through to double block & bleed, injection and sampling valves.



## Pumps - Haskel / Williams / LMI

A broad range of pump solutions covering Pneumatic, Electric and Hydraulic, contact New Plymouth for more information.



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