

OZLINC

PRODUCT CATALOGUE



Your partner in Pipe, Hose, Valves and Fittings since 1990.

www.ozlinc.com.au

WHO IS OZLINC?

Availability, continuity and service on demand.

OzLinc Industries is a supply partner of choice used by the Australian mining, infrastructure, fire fighting and marine industries. We make it our business to support yours by providing personalised and responsive service and an unrivalled inventory on demand, so you can be certain that when you need a pipe, hose, valve or fitting, we'll either have it or we'll have the next best alternative. Our focus on service and availability galvanises supply chain efficiency and preserves business continuity.

For many of our clients, production never ceases. Delays are costly, so we help mitigate that risk by stocking fluid transfer products across the spectrum of sizes, specifications and finishes. We establish an efficient and consolidated link between our Australian customers and international product manufacturers by forecasting requirements, sourcing from our quality assured global network, assuming the risk of stock holding and delivering on demand. We also provide in house assembly, cutting and threading with the capability to respond to large and custom orders quickly. It gives our customers the reliability they need and it's why we've become a supply partner of choice here in Australia.

Service is ingrained in our culture. Our range is backed by knowledgeable and experienced technical sales staff who add value to every transaction. They come from industry backgrounds and that experience gives them the ability to interpret and overcome problems and offer genuine innovation and flexibility when it's called for. It's this aspect of our service that ensures we always get the right solution, first time.

OUR VISION:

To be Australia's number one supply partner, who listens, understands and acts fairly for all while delivering exceptional social, economic and structural advancement as measured against our peers.

OUR MISSION:

To underpin the productivity, continuity and success of our customers by guaranteeing personalised and responsive service, unrivalled availability and fit-for-price supply of products sourced from our global network.



PIPE



SCREWED FITTINGS



HOSE



VALVES



FLUID AND AIR TRANSFER FITTINGS



ASSEMBLY AND MACHINING

DISTRIBUTOR FOR THE WORLD'S LEADING BRANDS

OzLinc distribute products from some of the world's leading manufacturers of pipe, hose, valves and fittings.

Pt® HAIDA PIPE FITTINGS

ALFAGOMMA

SWAN VALVES


RITIA GROUP

NORMA

winteb

WHAT WE STAND FOR

1

STOCK AVAILABILITY

Our procurement strategy is geared to maximising availability and reducing risk of loss through downtime. You can be confident we will always have the part you need, sourced from our extensive international network.

2

STAFF EXPERTISE

We don't employ order takers; we employ problem solvers. Our technical sales team is the most experienced in the industry and they have an intimate understanding of our products and how they're used.

3

SERVICE COMMITMENT

We put the same priority on each job as you do. We value our client relationships and empower our staff to use their initiative. Whether it's on the phone or in person, we never say no to a request or a challenge.





Contents



01

PIPE

PIPE



Pipe

TOLERANCE ON OUTSIDE DIAMETER, WALL THICKNESS, WEIGHT AND LENGTH OF PIPE

SPEC.	TYPE	OUTSIDE DIAMETER		
		PIPE BODY	PIPE ENDS (PLAIN END)	
ASTM A - 53	E,S	1½" NPS and under: 2" NPS and over:	± 0.40mm ± 1.0%	N.A
ASTM A106	S	⅝" to 1½": > 1" to 4": Above 4" to 8": Above 8" to 18":	± 0.40mm ± 0.80mm + 1.60mm, - 0.80mm + 2.40mm, - 0.80mm	N.A
ASTM A - 179	S	Hot Finished Seamless Tubes		N.A
		4" (101.6mm and under): Above 4" to 7½" including:	+ 0.40mm, - 0.80mm + 0.40mm, - 1.20mm	
A - 192	S	(101.6 to 190.5mm)		
A - 209	S	Over 7½" to 9": (190.50 to 228.60mm)	+ 0.40, - 1.60mm	
		Welded and Cold Finished Seamless Tubes		
A - 210	S	< 1" (25.4mm):	± 0.10mm	
A - 213	S	1" (25.4mm) to 1½" (38.1mm) including: > 1½"(38.1mm) to 2" (50.8mm) excluding:	± 0.15mm ± 0.20mm	
A - 178 A - 214	E	2" (50.8mm) to 2½" (63.5mm) excluding: 2½" (63.5mm) to 3" (76.2mm) excluding:	± 0.25mm ± 0.30mm	
A - 214	E	3" (76.2mm) to 4" (101.6mm) including: > 4" (101.6mm) to 7½" (190.5mm) including:	± 0.38mm + 0.38mm, - 0.64mm	
A - 334	E,S	> 7½" (190.5mm) to 9" (228.6mm) including:	+ 0.38mm, - 1.14mm	
ASTM A - 335	S	⅝" to 1½": > 1½" to 4": > 4" to 8" including: 8" to 12": Over 12":	± 0.40mm ± 0.79mm +1.59mm, - 0.79mm + 2.38mm, - 0.79mm ± 1.0% of OD	
ASTM A - 333	E,S	⅝" to 1½" including: > 1½" to 4" including: > 4" to 8" including: > 8" to 18" including: > 18" to 26" including:	+ 0.40mm, - 0.80mm ± 0.80mm + 1.60mm, - 0.80mm + 2.40mm, - 0.80mm + 3.20mm, - 0.80mm	
ASTM A - 519	S	Up to 76.17mm: 76.20 to 114.27mm : 114.30 to 152.37mm: 152.4 to 190.47mm : 190.50 to 228.57mm: 228.6 to 273.05mm:	± 0.51mm ± 0.64mm ± 0.79mm ± 0.94mm ± 1.14mm ± 1.27mm	Not Specified
ASTM A - 589	E & S	For NPS 1½" & under: NPS 2 and above:	± 0.40mm ± 1% of OD	Not Specified
RDSO ETI / OHE / 11' (5/89)	E,S	33.7mm OD: 38.0mm OD: 49.0mm OD:	+ 0.80mm, - 1.0mm + 0.32mm, - 0.2mm + 0.32mm, - 0.2mm	28.4 (Std. ID) & 27.70 (Min ID) 29.9 (Std. ID) and 29.58 (Min ID) 40.9 (Std. ID) and 40.58 (Min ID)
		≤ 100mm OD: > 100mm OD: 	± 1% of OD (0.5mm max) ± 1% of OD 	≤ 100mm OD: ± 0.40mm > 100mm OD ≤ 200mm: ± 0.5% > 200mm OD: ± 0.6%
		DIN 1629 and DIN 1630	S	
DIN 2391	S	As per table of relevant specification		Not specified
DIN 17175	S	OD ≤ 100mm: OD > 100mm ≤ 320mm: OD > 320mm:	± 0.75% (± 0.5mm min) ± 0.9% ± 1.0%	OD ≥ 45mm ≤ 100mm: ± 0.40mm OD > 100mm ≤ 200mm: ± 0.5% OD > 200mm: ± 0.6%

	WALL THICKNESS	WEIGHT	LENGTH										
			NOMINAL		AVG (min)		MINIMUM		MAXIMUM				
			ft	mtr	ft	mtr	ft	mtr	ft	mtr			
	At any point:	- 12.5% (max)	±10%		20	6	-	-	16	4.88	22	6.71	
			40	12	35	10.67	22	6.71	-	-			
	At any point:	- 12.5% (max.)	Single Length of Pipe :		+ 10%, - 3.5%	20	6	-	-	16	4.88	22	6.71
			40	12	35	10.67	22	6.71	-	-			
	HFS Tubes	HFS:	Exact Length Tolerance:										
	OD ≤101.6mm and WT < 2.4mm:	+ 40%, - 0	HFS Tubes: + 5mm, - 0										
	WT 2.4 to 3.80mm including:	+ 35%, - 0											
	WT 3.80mm to 4.60mm including:	+ 33%, - 0											
	WT > 4.60mm:	+ 28%, - 0											
	Welded Tubes (for all sizes):	+ 18%, - 0	Welded:	+10%, - 0	Welded and CFS Tubes:								
	CFS Tubes: < 1½" OD:	+ 20%, - 0	CFS Tubes: < 1½" OD:	+ 12%, - 0	< 2" (50.8mm) OD: + 3mm, - 0								
	> 1½" OD:	+ 22%, - 0	> 1½" OD:	+ 13%, - 0	> 2" (50.8mm) OD: + 5mm, - 0								
	At any point:	- 12.5% (max.)	Single pipe NPS 12 and under:		+ 10%, - 3.5%	Specified Length: + 6mm, - 0							
	At any point:	- 12.5% (max.)	Single pipe NPS 12 and under:		+ 10%, - 3.5%	20	6	-	-	16	4.88	22	6.71
			Single pipe over NPS 12:		+ 10%, - 5%	40	12	35	10.67	22	6.71	-	-
			Specified Length: + 6mm, - 0										
	Outside Diameter	Wall Thickness	Not specified		Pipe Length	OD	Tolerance						
	< 15mm ≥ 15mm				< 1.20 mtr	≤ 50.8mm	+ 1.6mm, - 0						
	Up to 76.19mm:	± 12.5% ± 10%				> 50.8 to 101.6mm	+ 2.4mm, - 0						
	76.2 to 152.37mm:	± 10% ± 7.5%				> 101.6mm	+ 3.2mm, - 0						
	152.4 to 273.05mm:	± 10% ± 10%				1.20 to 3.0 mtr	≤ 50.8mm	+ 2.4mm, - 0					
						> 50.8mm	+ 3.2mm, - 0						
						3.0 to 7.3 mtr	All Sizes	+ 4.8mm, - 0					
						> 7.30 m	All Sizes	+ 4.8mm, - 12.7mm for each 3.0 meter					
	At any point:	- 12.5% (max.)	± 5%		Single Random Length:								
	- 0.31mm, + not limited	N.A		For Drive, Reamed & Drifted and Water Well Casing Pipe: 4.9 to 6.7 meters									
- 0.35mm, + not limited	Random Length:												
- 0.35mm, + not limited	For Driven Well Pipe: 0.9 to 1.8 meters or 1.8 to 3.0 meters, as specified												
	OD ≤ 130mm:	Single Length of Pipe:		+ 12%, - 8%	Tolerance - As agreed								
	WT ≤ 2.0mm:	+15%, - 10%	For Car load not less than 10 ton		+ 10%, - 5%	Specified length: ± 500mm							
WT > 2.0mm ≤ 4.0mm:	+ 12.5%, - 10%	Exact Length:											
WT > 4.0mm:	± 9%	Up to 6 meter: + 10mm, - 0											
	OD > 130mm ≤ 320mm:					6 to 12 meters: + 15mm, - 0							
WT ≤ 0.05 D:	+ 17.5%, - 12.5%	Above 12 meter: As agreed											
WT > 0.05 D ≤ 0.11 D:	± 12.5%												
WT > 0.11D:	± 10.0%												
OD > 320mm ≤ 660mm:													
WT ≤ 0.05 D:	+ 20%, - 15%												
WT > 0.05 D ≤ 0.09 D:	+ 15%, - 12.5%												
WT > 0.09 D:	+ 12.5%, - 10%												
	± 10%	Not Specified		Random length: 4 to 7 meters									
				Exact Length:									
				Up to 500mm: + 2mm, - 0									
				500 to 2000mm: + 3mm, - 0									
				Above 2000 to 5000mm: + 5mm, - 0									
				+ 10%, - 5%	Above 5000 to 7000mm: + 10mm, - 0								
OD ≤ 130mm:	Single Length of Tube:			+ 10%, - 8%	Random Length: ± 500mm								
WT ≤ 2.0mm:	+15%, - 10%			For Car Load of min. 10 tons:		+ 10%, - 5%	Exact Length:						
WT > 2.0mm ≤ 4.0mm:	+ 12.5%, - 10%	Up to 6 meter: + 10mm, - 0											
WT > 4.0mm:	± 9%	6 to 12 meters: + 15mm, - 0											
	OD > 130mm ≤ 320mm:					Above 12 meter: As agreed							
WT ≤ 0.05 D:	+ 17.5%, - 12.5%												
WT > 0.05 D ≤ 0.11 D:	± 12.5%												
WT > 0.11D:	± 10.0%												
OD > 320mm ≤ 660mm:													
WT ≤ 0.05 D:	+ 22.5%, - 12.5%												
WT > 0.05 D ≤ 0.09 D:	+ 15%, - 12.5%												
WT > 0.09 D:	+ 12.5%, - 10%												

Pipe

ASTM SCHEDULED SIZES

Dimensions and Weight

NOMINAL PIPE SIZE (mm/inch)	OD (mm)	SCHEDULE WALL THICKNESS (mm) / WEIGHT (kg/m)													
		SCH. 5	SCH. 10	SCH. 20	SCH. 30	STD	SCH. 40	XS	SCH. 60	SCH. 80	SCH. 100	SCH. 120	SCH. 140	SCH. 160	XXS
6 1/8	10.3	-	1.24	-	1.45	1.73	1.73	2.41	-	2.41	-	-	-	-	-
		-	0.28	-	0.32	0.37	0.37	0.47	-	0.47	-	-	-	-	-
8 1/4	13.7	-	1.65	-	1.85	2.24	2.24	3.02	-	3.02	-	-	-	-	-
		-	0.49	-	0.54	0.63	0.63	0.80	-	0.80	-	-	-	-	-
10 3/8	17.1	-	1.65	-	1.85	2.31	2.31	3.20	-	3.20	-	-	-	-	-
		-	0.63	-	0.70	0.84	0.84	1.10	-	1.10	-	-	-	-	-
15 1/2	21.3	1.65	2.11	-	2.41	2.77	2.77	3.73	-	3.73	-	-	-	4.78	7.47
		0.80	1.00	-	1.12	1.27	1.27	1.62	-	1.62	-	-	-	1.95	2.55
20 3/4	26.7	1.65	2.11	-	2.41	2.87	2.87	3.91	-	3.91	-	-	-	5.56	7.82
		1.03	1.28	-	1.44	1.69	1.69	2.20	-	2.20	-	-	-	2.90	3.64
25 1	33.4	1.65	2.77	-	2.90	3.38	3.38	4.55	-	4.55	-	-	-	6.35	9.09
		1.29	2.09	-	2.18	2.50	2.50	3.24	-	3.24	-	-	-	4.24	5.45
32 1 1/4	42.2	1.65	2.77	-	2.97	3.56	3.56	4.85	-	4.85	-	-	-	6.35	9.70
		1.65	2.69	-	2.87	3.39	3.39	4.47	-	4.47	-	-	-	5.61	7.77
40 1 1/2	48.3	1.65	2.77	-	3.18	3.68	3.68	5.08	-	5.08	-	-	-	7.14	10.15
		1.90	3.11	-	3.53	4.05	4.05	5.41	-	5.41	-	-	-	7.25	9.55
50 2	60.3	1.65	2.77	-	3.18	3.91	3.91	5.54	-	5.54	-	-	-	8.74	11.07
		2.39	3.93	-	4.48	5.44	5.44	7.48	-	7.48	-	-	-	11.11	13.44
65 2 1/2	73.0	2.11	3.05	-	4.78	5.16	5.16	7.01	-	7.01	-	-	-	9.53	14.02
		3.69	5.26	-	8.04	8.63	8.63	11.41	-	11.41	-	-	-	14.92	20.39
80 3	88.9	2.11	3.05	-	4.78	5.49	5.49	7.62	-	7.62	-	-	-	11.13	15.24
		4.52	6.46	-	9.92	11.29	11.29	15.27	-	15.27	-	-	-	21.35	27.68
90 3 1/2	101.6	2.11	3.05	-	4.78	5.74	5.74	8.08	-	8.08	-	-	-	-	-
		5.18	7.41	-	11.41	13.57	13.57	18.64	-	18.64	-	-	-	-	-
100 4	114.3	2.11	3.05	-	4.78	6.02	6.02	8.56	-	8.56	-	11.13	-	13.49	17.12
		5.84	8.37	-	12.91	16.08	16.08	22.32	-	22.32	-	28.32	-	33.54	41.03
125 5	141.3	2.77	3.40	-	-	6.55	6.55	9.53	-	9.53	-	12.70	-	15.88	19.05
		9.46	11.56	-	-	21.77	21.77	30.97	-	30.97	-	40.28	-	49.12	57.43
150 6	168.30	2.77	3.40	-	-	7.11	7.11	10.97	-	10.97	-	14.27	-	18.26	21.95
		11.31	13.83	-	-	28.26	28.26	42.56	-	42.56	-	54.21	-	67.57	79.22
200 8	219.10	2.77	3.76	6.35	7.04	8.18	8.18	12.70	10.31	12.70	15.09	18.26	20.62	23.01	22.23
		14.78	19.97	33.32	36.82	42.55	42.55	64.64	53.09	64.64	75.92	90.44	100.93	111.27	107.93
250 10	273.00	3.40	4.19	6.35	7.80	9.27	9.27	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
		22.61	27.78	41.76	51.01	60.29	60.29	81.53	81.53	95.98	114.71	133.01	155.10	172.27	155.10
300 12	323.80	3.96	4.57	6.35	8.38	9.53	10.31	12.70	14.27	17.48	21.44	25.40	28.58	33.32	25.40
		31.24	35.98	49.71	65.19	73.86	79.71	97.44	108.93	132.05	159.87	186.92	208.08	238.69	186.92
350 14	355.60	3.96	6.35	7.92	9.53	9.53	11.13	12.70	15.09	19.05	23.83	27.79	31.75	35.71	-
		34.34	54.69	67.91	81.33	81.33	94.55	107.40	126.72	158.11	194.98	224.66	253.58	281.72	-

NOTE : Weights are specified for Plain End Pipes.

Carbon Steel

SIZE (NB)	SCH 40	SCH 80
15	IPSW 15s	IPXS 15s
20	IPSW 20s	IPXS20s
25	IPSW 25s	IPXS 25s
32	IPSW 32s	IPXS 32s
40	IPSW 40s	IPXS 40s
50	IPSW 50s	IPXS 50s
65	IPSW 65s	IPXS 65s
80	IPSW 80s	IPXS 80s
100	IPSW 100s	IPXS 100s
125	IPSW 125s	IPXS 125s
150	IPSW 150s	IPXS 150s
200	IPSW 200s	IPXS 200s
250	IPSW250s	IPXS 250s (extra strong)
300	IPSW 300s (standard weight)	IPXS 300s (extra strong)

**Galvanised Steel**

SIZE (NB)	SCH 40	SCH 80
15	IPSWG 15s	IPXSG 15s
20	IPSWG 20s	IPXSG 20s
25	IPSWG 25s	IPXSG 25s
32	IPSWG 32s	IPXSG 32s
40	IPSWG 40s	IPXSG 40s
50	IPSWG 50s	IPXSG 50s
65	IPSWG 65s	IPXSG 65s
80	IPSWG 80s	IPXSG 80s
100	IPSWG 100s	IPXSG 100s

**Stainless Steel 316**

SIZE (NB)	SCH 10	SCH 40
15	ISSP s1015	ISSP 015
20	ISSP s1020	ISSP 020
25	ISSP s1025	ISSP 025
32	ISSP s1032	ISSP 032
40	ISSP s1040	ISSP 040
50	ISSP s1050	ISSP 050
65	ISSP s1065	ISSP 065
80	ISSP s1080	ISSP 080
100	ISSP s10100	ISSP 100
125	ISSP s10125	
150	ISSP s10150	



Notes

02

VALVES

VALVES



COMMON VALVE TYPES

A **Ball Valve** is a valve with a spherical disc, the part of the valve which controls the flow through it. The sphere has a hole, or port, through the middle so that when the port is in line with both ends of the valve, flow will occur. When the valve is closed, the hole is perpendicular to the ends of the valve, and flow is blocked. The handle or lever will be inline with the port position letting you “see” the valve's position. The ball valve, along with the butterfly valve and plug valve, are part of the family of quarter turn valves.

Ball valves are durable and usually work to achieve perfect shutoff even after years of disuse. They are therefore an excellent choice for shutoff applications (and are often preferred to globe valves and gate valves for this purpose). Ball valves are used extensively in industrial applications because they are very versatile, supporting pressures up to 1000 bar and temperatures up to 752°F (500°C) depending on the ball valve design and material. Sizes typically range from 0.2 to 48 inches (0.5 cm to 121 cm). They are easy to repair and operate.

OzLinc supplies full bore, reduced bore, L-Port and T-Port in 2 piece and 3 piece valves in nickel plated brass and full 316 stainless steel.

Gate Valves are also known as a sluice valve, is a valve that opens by lifting a round or rectangular gate/wedge out of the path of the fluid. The distinct feature of a gate valve is the sealing surfaces between the gate and seats are planar, so gate valves are often used when a straight-line flow of fluid and minimum restriction is desired. The gate faces can form a wedge shape or they can be parallel. Gate valves are primarily used to permit or prevent the flow of liquids, but typical gate valves shouldn't be used for regulating flow, unless they are specifically designed for that purpose. Because of their ability to cut through liquids, gate valves are often used in the petroleum industry. For extremely thick fluids, a specialty valve often known as a knife valve is used to cut through the liquid

Butterfly Valves are valves which can be used for isolating or regulating flow. The closing mechanism takes the form of a disk. Operation is similar to that of a ball valve, which allows for quick shut off. Butterfly valves are generally favoured because they are lower in cost to other valve designs as well as being lighter in weight, meaning less support is required. The disc is positioned in the centre of the pipe, passing through the disc is a rod connected to an actuator on the outside of the valve. Rotating the actuator turns the disc either parallel or perpendicular to the flow. Unlike a ball valve, the disc is always present within the flow, therefore a pressure drop is always induced in the flow, regardless of valve position.

A butterfly valve is from a family of valves called quarter-turn valves. In operation, the valve is fully open or closed when the disc is rotated a quarter turn. The “butterfly” is a metal disc mounted on a rod. When the valve is closed, the disc is turned so that it completely blocks off the passageway. When the valve is fully open, the disc is rotated a quarter turn so that it allows an almost unrestricted passage of the fluid. The valve may also be opened incrementally to throttle flow.

A **Check Valve, Clack Valve, Non-Return Valve or One-Way Valve** is a valve that normally allows fluid (liquid or gas) to flow through it in only one direction.

Check valves are two-port valves, meaning they have two openings in the body, one for fluid to enter and the other for fluid to leave. There are various types of check valves used in a wide variety of applications. Check valves are often part of common household items. Although they are available in a wide range of sizes and costs, check valves generally are very small, simple, or inexpensive. Check valves work automatically and most are not controlled by a person or any external control; accordingly, most do not have any valve handle or stem. The bodies (external shells) of most check valves are made of plastic or metal.

An important concept in check valves is the cracking pressure which is the minimum upstream pressure at which the valve will operate. Typically the check valve is designed for and can therefore be specified for a specific cracking pressure.

A **Globe Valve**, different from ball valve, is a type of valve used for regulating flow in a pipeline, consisting of a movable disk-type element and a stationary ring seat in a generally spherical body.

Globe valves are named for their spherical body shape with the two halves of the body being separated by an internal baffle. This has an opening that forms a seat onto which a movable plug can be screwed in to close (or shut) the valve. The plug is also called a disc or disk. In globe valves, the plug is connected to a stem which is operated by screw action using a hand wheel in manual valves. Typically, automated globe valves use smooth stems rather than threaded and are opened and closed by an actuator assembly.

Stainless Steel 316 - 3-Piece Full Port Ball Valve 1000 WOG

SIZE (mm)	BSP THREAD	NPT THREAD	DNV APPROVED
8	I868 008		
10	I868 010		I868 DNV10
15	I868 015	I868 NPT15	I868 DNV15
20	I868 020	I868 NPT20	I868 DNV20
25	I868 025	I868 NPT25	I868 DNV25
32	I868 032	I868 NPT32	I868 DNV32
40	I868 040	I868 NPT40	I868 DNV40
50	I868 050	I868 NPT50	I868 DNV50
65	I868 065		
80	I868 080		
100	I868 100		


Stainless Steel 316 - 3-Piece ISO Ball Valves (C/W ISO Mounting Pad)

SIZE (mm)	BSP THREAD
15	I868 ISO15
20	I868 ISO20
25	I868 ISO25
32	I868 ISO32
40	I868 ISO40
50	I868 ISO50
65	I868 ISO65
80	I868 ISO80


2-Piece Full Port Ball Valve

SIZE (mm)	SS 316 BSP	NICKEL PLATED BRASS BSP	SS 316	DNV APPROVED
8	I861 008	I840 DL08	I861 NPT08	
10	I861 010	I840 DL10	I861 NPT10	I861 DNV10
15	I861 015	I840 DL15	I861 NPT15	I861 DNV15
20	I861 020	I840 DL20	I861 NPT20	I861 DNV20
25	I861 025	I840 DL25	I861 NPT25	I861 DNV25
32	I861 032	I840 DL32	I861 NPT40	I861 DNV32
40	I861 040	I840 DL40	I861 NPT50	I861 DNV40
50	I861 050	I840 DL50		I861 DNV50
65	I861 065	I840 DL65		
80	I861 080	I840 DL80		
100	I861 100	I840 DL100		



02.1 :: Ball Valves



Stainless Steel 316 - 2-Piece Full Port BSP M/F Ball Valve 1000PSI

SIZE (mm)	CODE	
8	I861 MF008	
10	I861 MF010	
15	I861 MF015	
20	I861 MF020	
25	I861 MF025	
32	I861 MF032	
40	I861 MF040	
50	I861 MF050	



S/S 316 2-Piece Full Port BSP M/F Ball Valve 1000PSI C/W Dead Man Handle

SIZE (mm)	CODE	
8	I861 DH08	
10	I861 DH10	
15	I861 DH15	
20	I861 DH20	
25	I861 DH25	
40	I861 DH40	
50	I861 DH50	



2-Piece Full Port BSP Ball Valve Butterfly Handle

SIZE (mm)	SS 316	CHROME PLATED FEMALE / FEMALE	CHROME PLATED MALE/FEMALE
8	I861 BH08	I866 008	I866 0008
10	I861 BH10	I866 010	I866 0010
15	I861 BH15	I866 015	I866 0015
20	I861 BH20	I866 020	I866 0020
25	I861 BH25	I866 025	I866 0025
32		I866 032	I866 0032
40		I866 040	I866 0040



Chrome / Brass F/Bore - Key Lock Ball Valves

SIZE (mm)	CODE	HANDLE	
20	I840 L020	T	
25	I840 L025	T	
32	I840 L032	Lever	
40	I840 L038	Lever	
50	I840 L050	Lever	
40	I861 DH40	Lever	
50	I861 DH50	Lever	

PVC BSP Ball Valves

SIZE (mm)	CODE	
15	844 015	
20	844 020	
25	844 025	
32	844 032	
40	844 040	
50	844 050	
65	844 065	
80	844 080	
100	844 100	



Poly BSP Ball Valves

SIZE (mm)	CODE	
15	853 015	
20	853 020	
25	853 025	
32	853 032	
40	853 040	
50	853 050	



Stainless Steel 316 - 1-Piece Reduced Port BSP Ball Valve 1000 WOG

SIZE (mm)	CODE	
8	1862 008	
10	1862 010	
15	1862 015	
20	1862 020	
25	1862 025	
32	1862 032	
40	1862 040	
50	1862 050	
65	1862 065	
80	1862 080	
100	1862 100	



02.1 :: Ball Valves



1-Piece BSP Mini Ball Valve FEMALE / FEMALE

SIZE (mm)	SS 316	CHROME PLATED
6		I859 006
8	I859 SS08	I859 008
10	I859 SS10	I859 010
15	I859 SS15	I859 012
20	I859 SS20	I859 020



1-Piece BSP Mini Ball Valve MALE / FEMALE

SIZE (mm)	SS 316	CHROME PLATED
6	I860 SS06	I860 008
10	I860 SS10	I860 010
15	I860 SS15	I860 012
20	I860 SS20	I860 020
20	I859 SS20	I859 020

Actuators



Double Acting Actuator to Suit ISO Ball Valves

SIZE RANGE (mm)	CODE
15 – 20	I848 DA32
20 – 32	I848 DA52
40 – 50	I848 DA63
65 – 80	I848 DA75
100	I848 DA85



Spring Return Actuator to Suit ISO

SIZE RANGE (mm)	CODE
15 – 20	I848 SR52
20 – 32	I848 SR63
40 – 50	I848 SR75
65 – 80	I848 SR85
	I848 SR92
	I848 SR105
	I848 SR125
	I848 SR140
	I848 SR160

3-Way BSP Full Port "L" and "T" Port Valve – Side Entry

SIZE (mm)	L PORT SS316	T PORT SS316	L PORT KITZ BRASS	L PORT ITAP
6			869 006	
8	I845 F008	I856 F008	869 008	
10	I845 F010	I856 F010	869 010	
15	I845 F015	I856 F015	869 015	I869 115
20	I845 F020	I856 F020	869 020	I869 120
25	I845 F025	I856 F025	869 025	I869 125
32	I845 F032	I856 F032	869 032	
40	I845 F040	I856 F040	869 040	
50	I845 F050	I856 F050	869 050	


3-Way BSP Stainless Steel Full Port "L" and "T" Port Valve – Bottom Entry

SIZE (mm)	L PORT SS316	T PORT SS316	L PORT BRASS	T PORT BRASS
8	I845 BE008	I856 BE008	845 008	856 008
10	I845 BE010	I856 BE010	845 010	856 010
15	I845 BE015	I856 BE015	845 015	856 015
20	I845 BE020	I856 BE020	845 020	856 020
25	I845 BE025	I856 BE025	845 025	856 025
32	I845 BE032	I856 BE032	845 032	856 032
40	I845 BE040	I856 BE040	845 040	856 040
50	I845 BE050	I856 BE050	845 050	856 050
65			845 065	856 065
80	I845 BE080	I856 BE080	845 080	856 080



02.1 :: Ball Valves



Flanged Ball Valves ANSI 150LB

SIZE (mm)	SS 316	CARBON STEEL	
15	I861 FL015		
20	I861 FL020		
25	I861 FL025	I851 CS025	
32	I861 FL032		
40	I861 FL040		
50	I861 FL050	I851 CS050	
65	I861 FL065	I851 CS080	
80	I861 FL080	I851 CS100	
100	I861 FL100		



Table "E" Stainless Steel 316

SIZE (mm)	CODE	
15	I861 FE015	
20	I861 FE020	
25	I861 FE025	
32	I861 FE032	
40	I861 FE040	
50	I861 FE050	
65	I861 FE065	
80	I861 FE080	
100	I861 FE100	



3-Way Stainless Steel 316, 150# Flanged "L" and "T" Port Valves

SIZE (mm)	L PORT	T PORT	
50	I845 FL050	I856 FL50	
80	I845 FL080	I856 FL80	
100	I845 FL100	I856 FL100	

Wafer Check Valves

SIZE (mm)	STANDARD	DUAL PLATE SS 316	SINGLE DISC SS 316
50	I867 050	I867 050SS	I867 S050
65	I867 065	I867 065SS	I867 S065
80	I867 080	I867 080SS	I867 S080
100	I867 100	I867 100SS	I867 S100
150	I867 150		
200	I867 200		
250	I867 250		
300	I867 300		

**Cast Iron Dual Plate Wafer Check Valves**

SIZE (mm)	CODE
40	I867 040
50	I867 050
65	I867 065
80	I867 080
100	I867 100
125	I867 125
150	I867 150
200	I867 200
250	I867 250
300	I867 300

**BSP Swing Check Valves**

SIZE (mm)	SS 316	STANDARD BRASS	KITZ TESTED BRASS	BRONZE
8	I871 0008			
10	I871 0010	I849 010	849 110	
15	I871 0015	I849 015	849 115	I849 BR15
20	I871 0020	I849 020	849 120	I849 BR20
25	I871 0025	I849 025	849 125	I849 BR25
32	I871 0032	I849 032	849 132	I849 BR32
40	I871 0040	I849 040	849 140	I849 BR40
50	I871 0050	I849 050	849 150	I849 BR50
65	I871 0065	I849 065	849 165	
80	I871 0080	I849 080	849 180	
100		I849 100		



02.2 :: Check Valves



Inline Check Valves

SIZE (mm)	SS 316	EUROPA	YORK	MONDEO 304 STAINLESS STEEL
6	I872 006			872 006
10	I872 010	I870 010	I846 010	872 010
15	I872 015	I870 015	I846 015	872 015
20	I872 020	I870 020	I846 020	872 020
25	I872 025	I870 025	I846 025	872 025
32	I872 032	I870 032	I846 032	872 032
40	I872 040	I870 040	I846 040	872 040
50	I872 050	I870 050	I846 050	872 050
65	I872 065	I870 065	I846 065	872 065
80	I872 080	I870 080	I846 080	872 080
100	I872 100	I870 100	I846 100	872 100



Stainless Steel BSP 3-Piece Disc Check Valves

SIZE (mm)	CODE
15	I864 012
20	I864 020
25	I864 025
32	I864 032
40	I864 040
50	I864 050



Flanged Bronze Swing Check Valves

SIZE (mm)	CODE
15	
20	
25	
32	
40	I849 F040
50	I849 F050
80	I849 F080
100	I849 F100



"Y" Pattern BSP Check Valves For Steam Applications, Stainless Steel 316

SIZE (mm)	CODE
8	
10	
15	I872 Y15
20	I872 Y20
25	I872 Y25
40	I872 Y40
50	I872 Y50
100	I872 F100

BSP "Y" Strainers

SIZE (mm)	SS 316	BRASS	
8	I865 108	I865 008	
10	I865 110	I865 010	
15	I865 115	I865 015	
20	I865 120	I865 020	
25	I865 125	I865 025	
32	I865 132	I865 032	
40	I865 140	I865 040	
50	I865 150	I865 050	
65	I865 165	I865 065	
80	I865 175	I865 075	
100		I865 100	



Carbon Steel ANSI 150 - Simplex Flanged Basket Strainer

SIZE (mm)	CODE	
50	I865 SA050	
65	I865 SA065	
80	I865 SA080	
100	I865 SA100	



02.3 :: Multi-Turn Valves



BSP Threaded Gate Valves

SIZE (mm)	SS 316	BRASS STANDARD	BRASS TESTED
		I841 010	843 010
15	I841 SS015	I841 015	843 015
20	I841 SS020	I841 020	843 020
25	I841 SS025	I841 025	843 025
32	I841 SS032	I841 032	843 032
40	I841 SS040	I841 040	843 040
50	I841 SS050	I841 050	843 050
65	I841 SS065	I841 065	843 065
80	I841 SS080	I841 080	843 080
		I841 100	



Stainless Steel BSP Threaded Globe Valves

SIZE (mm)	CODE
8	I843 008
10	I843 010
15	I843 012
20	I843 020
25	I843 025
32	I843 032
40	I843 040
50	I843 050
65	I843 065
80	I843 080



Stainless Steel BSP "Y" Pattern Globe Valves

SIZE (mm)	CODE
15	I843 Y15
20	I843 Y20
25	I843 Y25
32	I843 Y32
40	I843 Y40
50	I843 Y50

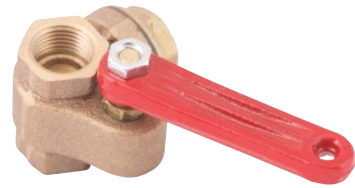
6000# Stainless Steel Needle Valves

SIZE (mm)	NPT	BSP	
8	I876 NPT008	I876 008	
10	I876 NPT010	I876 010	
15	I876 NPT015	I876 015	
20	I876 NPT020	I876 020	
25	I876 NPT025	I876 025	



Stainless Steel Quick Acting Gate Valve

SIZE (mm)	SS 316	BRASS VALVE	SS SPRING
15	I842 15SS	I842 015	I842 002
20	I842 20SS	I842 020	I842 002
25		I842 025	I842 002
32		I842 032	I842 003
40		I842 040	I842 003
50		I842 050	I842 003
65		I842 065	
80		I842 080	
100		I842 075	
		I842 100	



02.4 :: Miscellaneous Valves



Stainless Steel BSP Sight Glasses

SIZE (mm)	CODE	
15	SSSG 15	
20	SSSG 20	
25	SSSG 25	
40	SSSG 40	
50	SSSG 50	



Pressure Relief Valves

SIZE (mm)	BRASS	STAINLESS STEEL	LEVER OP
15	I852 015		
20	I852 020		
25	I852 025	I852 025SS	I852 L025
32	I852 032		
40	I852 040		
50	I852 050	I852 050SS	



Dual Use BSP Poly Foot Valve (Inline Check Valves)

SIZE (mm)	WITH STRAINER	POLY STRAINER BSP MALE	
15	854 015		
20	854 020	854 F020	
25	854 025		
32	854 032		
40	854 040	854 F040	
50	854 050	854 F050	

Hansen BSP Poly Check Valves

SIZE (mm)	CODE	
25	851 025	
32	851 032	
40	851 040	
50	851 050	

Poly Hose Tail Strainers

SIZE (mm)	CODE	
15	624 015	
20	624 020	
25	624 025	
32	624 032	
40	624 038	
50	624 050	
80	624 080	



Foot Valves

SIZE (mm)	BRASS BSP	
15	I863 015	
20	I863 020	
25	I863 025	
32	I863 032	
40	I863 040	
50	I863 050	
65	I863 065	
80	I863 080	
100	I863 100	

**Stainless Steel Filter Basket Male BSP with Nylon Thread**

SIZE (mm)	CHECK FILTER	
10	I846 110	
15	I846 115	
20	I846 120	
25	I846 125	
32	I846 132	
40	I846 140	
50	I846 150	
65	I846 165	
80	I846 180	
100	I846 2100	

**Bibcock - Lockable Nickel Plated Brass**

SIZE (mm)	CODE	
15	855 015	
20	855 020	

**Bibcock**

SIZE (mm)	CODE	DESCRIPTION
15	1847 015	¾" x ½" Tail
20	1847 020	1" x ¾" Tail



02.5 :: Butterfly Valves



Wafer Type Butterfly Valves - Lloyds Approved Manufacturer

SIZE (mm)	NBR SEAT LLOYDS APPROVED	ALUMINIUM TOMOE	SS 316	TEFLON COATED
40	I848 040	848 TOM40	I848 40	
50	I848 050	848 TOM50	I848 50	I848TC 50
65	I848 065	848 TOM65		I848TC 65
80	I848 080	848 TOM80	I848 80	I848TC 80
100	I848 100	848 TOM100	I848 100	I848 TC100
125	I848 125	848 TOM125		
150	I848 150	848 TOM150		
200	I848 200	848 TOM200		
250	I848 250			
300	I848 300			



Lug Pattern Butterfly Valves NBR Seat – Table “E” - Lloyds Approved Manufacturer

SIZE (mm)	CODE	
40	I848 LR040	
50	I848 LR050	
65	I848 LR065	
80	I848 LR080	
100	I848 LR100	
125	I848 LR125	
150	I848 LR150	
200	I848 LR200	
250	I848 LR250	
300	I848 LR300	



Butterfly Valve Gear Boxes

SIZE (mm)	CODE	
40 – 80	I848 GB080	
100	I848 GB100	
125 – 150	I848 GB150	
200	I848 GB200	
300	I848 GB300	

Flanged Undrilled Brass Gate Valves

SIZE (mm)	BRONZE		
15	I841 F015		
20	I841 F020		
25	I841 F025		
32	I841 F032		
40	I841 F040		
50	I841 F050		
65	I841 F065		
80	I841 F080		
100	I841 F100		

**Class 800 CS Gate Valves**

SIZE (mm)	SOCKET WELD	NPT	
15	I841 8S15	I841 8N15	
20	I841 8S20	I841 8N20	
25	I841 8S25	I841 8N25	
40	I841 8S40	I841 8N40	
50	I841 8S50	I841 8N50	

**Class 800 CS Globe Valves**

SIZE (mm)	SOCKET WELD	NPT	
15	I843 8S015	I843 8N15	
20	I843 8S020	I843 8N20	
25	I843 8S025	I843 8N25	
40	I843 8S040	I843 8N40	
50	I843 8S050	I843 8N50	

**Knife Gate Valves**

SIZE (mm)	METAL SEATED	RESILIENT SEAT	
80	I848 KM080	I848 KB080	
100	I848 KM100	I848 KB100	
150	I848 KM150	I848 KB150	

**Cast Iron Gate Valves Undrilled**

SIZE (mm)	CODE		
80	I853 CI080		
100	I843 CI100		
150	I853 CI150		



02.7 :: Cast Steel Valves



Undrilled "Y" Strainers

SIZE (mm)	STAINLESS STEEL 316 FLANGED	CAST STEEL JIS 10K	CAST STEEL ANSI 150
50	I865 FLS050	I865 FL050	I865 FLA050
80	I865 FLS080	I865 FL080	I865 FLA080
100	I865 FLS100	I865 FL100	I865 FLA100
150		I865 FL150	I865 FLA150

Bronze JIS

F7351 JIS 5K Flanged, Bronze Screw Down Non Return Valve			
SIZE (mm)	CODE	FACE / FACE	
15	I844 F735115	100mm	
20	I844 F735120	110mm	
25	I844 F735125	120mm	
32	I844 F735132	140mm	
40	I844 F735140	160mm	



F7409 JIS 10/16K (Undrilled) Flanged, Bronze Screw Down Non Return Valve			
SIZE (mm)	CODE	FACE / FACE	
25	I844 F7409025	130mm	
32	I844 F7409032	160mm	
40	I844 F7409040	180mm	
50	I844 F7409050	210mm	



F7410 JIS 10K (Undrilled) Flanged, Bronze Angle Pattern Screw Down Non Return Valve			
SIZE (mm)	CODE	FACE / FACE	
25	I844 F741025	85mm	
32	I844 F741032	95mm	
40	I844 F741040	100mm	
50	I844 F741050	110mm	



F7367 JIS 5K Flanged, Bronze Gate Valve			
SIZE (mm)	CODE	FACE / FACE	
15	I844 F736715	90mm	
20	I844 F736720	100mm	
25	I844 F736725	110mm	
32	I844 F736732	130mm	
40	I844 F736740	140mm	



02.8 :: Marine Valves

Bronze JIS



F7368 JIS 10K (Undrilled) Flanged, Bronze Gate Valve			
SIZE (mm)	CODE	FACE / FACE	
15	I844 F736815	100mm	
20	I844 F736820	110mm	
25	I844 F736825	120mm	
32	I844 F736832	140mm	
40	I844 F736840	150mm	



F7373 JIS 10K (Undrilled) Flanged, Bronze Swing Check Valve			
SIZE (mm)	CODE	FACE / FACE	
50	I844 F7373050	210mm	
65	I844 F7373065	240mm	
80	I844 F7373080	270mm	
100	I844 F7373100	300mm	

Cast Steel JIS

F7311 JIS 5K Flanged, Cast Steel SDNR Valve

SIZE (mm)	CODE	FACE / FACE	
50	I844 F7311050	210mm	
65	I844 F7311065	250mm	
80	I844 F7311080	280mm	
100	I844 F7311100	340mm	



F7312 JIS 5K Flanged, Cast Steel Angle Pattern SDNR Valve

SIZE (mm)	CODE	FACE / FACE	
50	I844 F731250	100mm	
65	I844 F731265	115mm	
80	I844 F731280	130mm	
100	I844 F7312100	150mm	



F7471 JIS 10K (Undrilled) Flanged, Cast Steel SDNR Valve

SIZE (mm)	CODE	FACE / FACE	
50	I844 F7471050	220mm	
65	I844 F7471065	270mm	
80	I844 F7471080	300mm	
100	I844 F7471100	350mm	



F7472 JIS10K (Undrilled) Flanged, Cast Steel Angle Pattern SDNR Valve

SIZE (mm)	STAINLESS STEEL	FACE / FACE	
50	I844 F7472050	120mm	
65	I844 F7472065	130mm	
80	I844 F7472080	140mm	
100	I844 F7472100	160mm	



F7363 JIS 5K Flanged, Cast Steel Gate Valve

SIZE (mm)	CODE	FACE / FACE	
50	I844 F736350	180mm	
65	I844 F736365	190mm	
80	I844 F736380	200mm	
100	I844 F7363100	230mm	



02.8 :: Marine Valves

Cast Steel JIS continued



F7366 JIS 10K (Undrilled) Flanged, Cast Steel Gate Valve			
SIZE (mm)	CODE	FACE / FACE	
50	I844 F7366050	200mm	
65	I844 F7366065	220mm	
80	I844 F7366080	230mm	
100	I844 F7471100	250mm	



F3060 JIS 5K Cast Steel Angle Pattern Storm Valves			
SIZE (mm)	CODE	FACE / FACE	
50	I844 F306050	90mm	
65	I844 F306065	110mm	
80	I844 F306080	120mm	
100	I844 F3060100	130mm	



F3061 JIS 10K Cast Steel Storm Valve			
SIZE (mm)	CODE	FACE / FACE	
50	I844 F3061050		
65	I844 F3061065		
80	I844 F3061080		
100	I844 F3061100		



F7353 JIS 5K Flanged, Cast Iron SDNR Valve			
SIZE (mm)	CODE	FACE / FACE	
50	I844 F735350	210mm	
65	I844 F735365	250mm	
80	I844 F735380	280mm	
100	I844 F7353100	340mm	
150	I844 F7353150	480mm	



F7354 JIS 5K Flanged, Cast Iron 90° Angle Pattern SDNR Valve			
SIZE (mm)	CODE	FACE / FACE	
50	I844 F735450	100mm	
65	I844 F735465	115mm	
80	I844 F735480	130mm	
100	I844 F7354100	150mm	
150	I844 F7354150	190mm	



F7376 JIS 10K Flanged, Cast Iron SDNR Valve			
SIZE (mm)	CODE	FACE / FACE	
50	I843 JIS50	220mm	
65	I843 JIS65	270mm	
80	I843 JIS80	280mm	
100	I8434 JIS100	350mm	

Cast Iron JIS

F7376 JIS 10K Flanged, Cast Iron Angle SDNR Valve			
SIZE (mm)	CODE	FACE / FACE	
50	I843 JIS950	130mm	
65	I843 JIS965	140mm	
80	I843 JIS980	150mm	
100	I843 JIS9100	170mm	



Bronze JIS

JIS 10K Flanged (Undrilled) Marine Bronze Gate Valves with Indicator			
SIZE (mm)	CODE	FACE / FACE	
15	I841 FM015	80mm	
20	I841 FM020	80mm	
25	I841 FM025	90mm	
32	I841 FM032	95mm	
40	I841 FM040	100mm	
50	I841 FM 050	115mm	
65	I841 FM065	120mm	
80	I841 FM080	140mm	
100	I841 FM100	180mm	

Non Class Approved



JIS 10K Flanged (Undrilled) Marine Bronze SDNR Valves			
SIZE (mm)	CODE	FACE / FACE	
32	I843 FSDNR32	90mm	
40	I843 FSDNR40	105mm	
50	I843 FSDNR50	135mm	
65	I843 FSDNR65	165mm	
80	I843 FSDNR80	185mm	
100	I843 FSDNR100	205mm	

Non Class Approved



JIS 10K Flanged (Undrilled) Pattern Bronze SDNR Valves Short Pattern			
SIZE (mm)	CODE	FACE / FACE	
15	I843 FSP15	60mm	
20	I843 FSP20	69mm	
25	I843 FSP25	80mm	
32	I843 FSP32	100mm	
40	I843 FSP40	100mm	
50	I843 FSP50	120mm	

Generally used in marine air con systems, "BV" Class approved manufacture



02.8 :: Marine Valves

Miscellaneous Marine Valves



F7399 JIS 5K Emergency Fuel Shut Off Valves Bronze Straight Through			
SIZE (mm)	CODE	FACE / FACE	
25	I844 F739925	120mm	
40	I844 F739940	160mm	



F7399 JIS 5K Emergency Fuel Shut Off Valves Cast Steel Straight Pattern			
SIZE (mm)	CODE	FACE / FACE	
50	I844 F739950	210mm	



F7399 JIS 5K Emergency Fuel Shut Off Valves Cast Steel Angle Pattern			
SIZE (mm)	CODE	FACE / FACE	
50	I844 F739950AL	100mm	

03

FLANGES

FLANGES



Flanges

COMPARISON TABLE

NOMINAL PIPE SIZE (mm)	FLANGE STANDARDS		FLANGE DIMENSIONS (MM)					
	NAME	RATING	OD	PCD	BOLT NO. OFF	DIA	THICKNESS	
25 mm	JIS	10	125	90	4	M16	18	14
		16	125	90	4	M16	18	14
		20	125	90	4	M16	18	14
	ANSI	125/150 300	108 124	79 89	4 4	M16 M16	11 -	14 17
		A	115	83	4	M12	13	12
	AS2129	D	115	83	4	M12	13	12
		E	115	83	4	M12	13	12
		F	120	87	4	M16	13	12
		H	120	87	4	M16	19	12
	DIN	6	100	75	4	M10	14	14
		10	115	85	4	M12	16	16
		16	115	85	4	M12	16	16
		25	115	85	4	M12	16	16
1 in		40	115	85	4	M12		
32 mm	JIS	10	135	100	4	M16	20	16
		16	135	100	4	M16	20	16
		20	135	100	4	M16	20	18
	ANSI	125/150 300	118 133	89 98	4 4	M16 M16	13 -	16 20
		A	120	87	4	M12	13	12
	AS2129	D	120	87	4	M12	13	12
		E	120	87	4	M12	13	12
		F	135	98	4	M16	13	12
		H	135	98	4	M16	19	12
	DIN	6	120	90	4	M12	16	16
		10	140	100	4	M16	18	16
		16	140	100	4	M16	18	16
		25	140	100	4	M16	18	16
1 ¼ in		40	140	100	4	M16		
40 mm	JIS	10	140	105	4	M16	20	16
		16	140	105	4	M16	20	16
		20	140	105	4	M16	22	18
	ANSI	125/150 300	127 156	98 114	4 4	M16 M16	14 -	18 21
		A	135	98	4	M12	16	12
	AS2129	D	135	98	4	M12	16	12
		E	135	98	4	M12	16	12
		F	140	105	4	M16	16	13
		H	140	105	4	M16	22	17
	DIN	6	130	100	4	M12	16	16
		10	150	110	4	M16	18	16
		16	150	110	4	M16	18	16
		25	150	110	4	M16	18	16
1 ½ in		40	150	110	4	M16		
50 mm	JIS	5	130	105	4	M12	16	14
		10	155	120	4	M16	20	16
		16	155	120	8	M16	20	16
	ANSI	125/150 300	152 165	121 127	4 8	M16 M16	18 -	19 22
		A	150	114	4	M16	16	12
	AS2129	D	150	114	4	M16	17	12
		E	150	114	4	M16	19	12
		F	165	127	4	M16	19	16
		H	165	127	4	M16	25	19
	DIN	6	140	110	4	M12	16	16
		10	165	125	4	M16	20	18
		16	165	125	4	M16	20	18
		25	165	125	4	M16	20	18
2 in		40	165	125	4	M16		

NOMINAL PIPE SIZE (mm)	FLANGE STANDARDS		FLANGE DIMENSIONS (MM)					
	NAME	RATING	OD	PCD	BOLT NO. OFF	DIA	THICKNESS	
65 mm	JIS	5	155	130	4	M12	18	14
		10	175	140	4	M16	22	18
		16	175	140	8	M16	22	18
	ANSI	125/150 300	178 191	140 149	4 8	M12 M20	18 -	22 25
		A	165	127	4	M16	17	12
	AS2129	D	165	127	4	M16	17	12
		E	165	127	4	M16	19	12
		F	185	146	4	M16	19	16
		H	185	146	8	M16	25	19
	DIN	6	160	130	4	M12	16	16
		10	185	145	4	M16	20	18
		16	185	145	4	M16	20	18
		25	185	145	8	M16	20	18
2 ½ in		40	185	145	8	M16		
80 mm	JIS	5	180	145	4	M16	18	14
		10	185	150	4	M16	22	18
		16	200	165	8	M20	24	20
	ANSI	125/150 300	191 210	152 168	4 8	M16 M20	19 -	24 29
		A	185	146	4	M16	17	12
	AS2129	D	185	146	4	M16	19	12
		E	185	146	4	M16	19	12
		F	205	165	8	M16	19	16
		H	205	165	8	M16	29	2
	DIN	6	190	150	4	M16	18	18
		10	200	160	8	M16	22	20
		16	200	160	8	M16	22	20
		25	200	160	8	M16	22	20
3 in		40	200	160	8	M16		
90 mm	JIS	not listed						
	ANSI	125/150 300	216 229	178 184	8 8	M16 M20	- -	24 30
		A	205	165	4	M16	-	12
	AS2129	D	205	165	4	M16	-	12
		E	205	165	8	M16	-	12
		F	215	178	8	M16	-	19
3 ½ in	DIN	not listed						
100 mm	JIS	5	200	165	8	M16	20	16
		10	210	175	8	M16	24	18
		16	225	185	8	M20	26	22
	ANSI	125/150 300	230 254	191 200	8 8	M16 M20	24 -	24 32
		A	215	178	4	M16	19	12
	AS2129	D	215	178	4	M16	19	12
		E	215	178	8	M16	22	13
		F	230	191	8	M16	22	19
		H	230	191	8	M16	32	25
	DIN	6	210	170	4	M16	18	18
		10	220	180	8	M16	24	20
		16	220	180	8	M16	24	20
		25	235	190	8	M20		
4 in		40	265	180	8	M20		

COMPARISON TABLE

NOMINAL PIPE SIZE (mm)	FLANGE STANDARDS		FLANGE DIMENSIONS (MM)					
	NAME	RATING	OD	PCD	BOLT NO. OFF	DIA	THICKNESS	
125 mm	JIS	5	235	200	8	M16	20	16
		10	250	210	8	M20	24	20
		16	270	225	8	M22	36	22
		20	270	225	8	M22	30	26
	ANSI	125/150	254	216	8	M20	24	24
		300	279	235	8	M20	24	35
	AS2129	A	225	210	4	M16	19	13
		D	225	210	8	M16	21	13
		E	225	210	8	M16	22	14
		F	280	235	8	M20	25	22
		H	280	235	8	M20	35	29
	DIN	6	240	200	8	M16	20	20
		10	250	210	8	M16	26	22
		16	250	210	8	M16	26	22
		25	270	220	8	M24		
5 in		40	270	220	8	M24		

150 mm	JIS	5	265	230	8	M16	22	18
		10	280	240	8	M20	26	22
		16	305	260	12	M22	28	24
		20	305	260	12	M22	32	28
	ANSI	125/150	279	241	8	M20	25	25
		300	318	270	12	M20	37	29
	AS2129	A	280	235	4	M16	21	13
		D	280	235	8	M16	21	13
		E	280	235	8	M20	22	17
		F	305	260	12	M20	25	22
		H	305	260	12	M20	35	29
	DIN	6	265	225	8	M16	20	20
		10	285	240	8	M20	26	22
		16	285	240	8	M20	26	22
		25	300	250	8	M24		
6 in		40	300	250	8	M24		

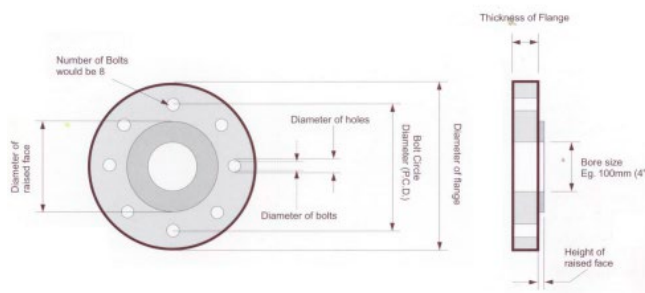
200 mm	JIS	5	320	280	8	M20	24	20
		10	330	290	12	M20	26	22
		16	350	305	12	M22	30	26
		20	350	305	12	M22	34	30
	ANSI	125/150	343	299	8	M20	29	29
		300	381	330	12	M22	41	12
	AS2129	A	335	292	8	M16	22	13
		D	335	292	8	M16	22	13
		E	335	292	8	M20	25	19
		F	370	324	12	M20	29	25
		H	370	324	12	M20	28	32
	DIN	6	320	280	8	M16	22	22
		10	340	295	8	M20	26	24
		16	340	295	12	M20	30	24
		25	360	310	12	M24		
8 in		40	375	320	12	M27		

250 mm	JIS	5	385	345	12	M20	26	22
		10	400	355	12	M22	30	26
		16	430	380	12	M22	34	30
		20	430	380	8	M20	29	29
	ANSI	125/150	406	362	12	M22	41	12
		300	445	387	8	M16	22	13
	AS2129	A	405	356	8	M16	22	13
		D	405	356	8	M20	25	19
		E	405	356	12	M20	29	25
		F	430	381	12	M20	28	32
		H	430	381	8	M16	22	22
	DIN	6	375	335	8	M20	26	24
		10	395	350	12	M20	30	24
		16	405	355	12	M24		
		25	425	370	12	M27		
10 in		40	450	385	12	M30		

NOMINAL PIPE SIZE (mm)	FLANGE STANDARDS		FLANGE DIMENSIONS (MM)					
	NAME	RATING	OD	PCD	BOLT NO. OFF	DIA	THICKNESS	
300 mm	JIS	5	430	390	12	M20	28	22
		10	445	400	16	M22	32	24
		16	480	430	16	M24	36	30
		20	480	430	16	M24	40	36
	ANSI	125/150	483	432	12	M22	32	32
		300	521	451	16	M27	-	51
	AS2129	A	455	406	8	M20	24	19
		D	455	406	12	M20	25	19
		E	455	406	12	M24	29	25
		F	490	438	16	M24	32	32
		H	490	438	16	M24	44	41
	DIN	6	440	395	12	M20	24	24
		10	445	400	12	M20	28	26
		16	460	410	12	M24	32	28
12 in								

350 mm	JIS	5	480	435	12	M22	30	24
		10	490	445	16	M22	34	26
		16	540	480	16	M30	34	34
		20	540	480	16	M30	38	40
	ANSI	125/150	533	476	12	M27	35	35
		300	584	514	20	M27	-	54
	AS2129	A	525	470	8	M24	25	22
		D	525	470	12	M24	29	22
		E	525	470	12	M24	32	29
		F	550	495	16	M27	35	35
		H	550	495	16	M27	48	48
	DIN	6	490	445	12	M20	26	26
		10	505	460	16	M20	30	28
		16	520	470	16	M24	36	32
14 in								

400 mm	JIS	5	540	495	16	M22	30	24
		10	560	510	16	M24	36	28
		16	605	540	16	M30	42	28
		20	605	540	16	M30	50	46
	ANSI	125/150	597	540	16	M27	37	37
		300	648	572	20	M33	-	57
	AS2129	A	580	521	12	M24	29	22
		D	580	521	12	M24	29	22
		E	580	521	12	M24	32	32
		F	610	552	20	M27	35	41
		H	610	552	20	M27	51	54
	DIN	6	540	495	16	M20	28	28
		10	565	515	16	M24	32	32
		16	580	525	16	M27	38	36
16 in								



03.1 :: Threaded Flanges



Threaded BSP

SIZE (mm)	GAL STEEL "E"	BLACK STEEL "E"	316 STAINLESS STEEL TABLE "E"	316 STAINLESS STEEL ANSI 150#	GAL MAL TABLE "D"
15	I384 SG015	I384 SB015	I636 TBSP15	I636 ASC015	484 0015
20	I384 SG020	I384 SB020	I636 TBSP20	I636 ASC020	484 0020
25	I384 SG025	I384 SB025	I636 TBSP25	I636 ASC025	484 0025
32	I384 SG032	I384 SB032	I636 TBSP32	I636 ASC032	484 0032
40	I384 SG040	I384 SB040	I636 TBSP40	I636 ASC040	484 0040
50	I384 SG050	I384 SB050	I636 TBSP50	I636 ASC050	484 0050
65	I384 SG065		I636 TBSP65	I636 ASC065	484 0065
80	I384 SG080		I636 TBSP80	I636 ASC080	484 0080
100	I384 SG100		I636 TBSP100	I636 ASC100	484 0100
					484 0150

American Standard Flanges – ANSI B16.5

Slip On Weld

SIZE (mm)	ANSI 150#	ANSI 300#	ANSI 316 STAINLESS STEEL
15	I384 A015	I384 3015	I636 A015
20	I384 A020	I384 3020	I636 A020
25	I384 A025	I384 3025	I636 A025
32	I384 A032	I384 3032	I636 A032
40	I384 A040	I384 3040	I636 A040
50	I384 A050	I384 3050	I636 A050
65	I384 A065	I384 3065	I636 A065
80	I384 A080	I384 3080	I636 A080
100	I384 A100	I384 3100	I636 A100
125	I384 A125		I636 A125
150	I384 A150		I636 A150
200	I384 A200		I636 A200
250	I384 A250		
300	I384 A300		



Blind Flanges

SIZE (mm)	CARBON STEEL ANSI 150#	CARBON STEEL ANSI 300#	STAINLESS STEEL 316
15	I384 AB015	I384 3015B	I636 AB015
20	I384 AB020	I384 3020B	I636 AB020
25	I384 AB025	I384 3025B	I636 AB025
32	I384 AB032	I384 3032B	I636 AB032
40	I384 AB040	I384 3040B	I636 AB040
50	I384 AB050	I384 3050B	I636 AB050
65	I384 AB065	I384 3065B	I636 AB065
80	I384 AB080	I384 3080B	I636 AB080
100	I384 AB100	I384 3100B	I636 AB100
125	I384 AB125		I636 AB125
150	I384 AB150		I636 AB150
200	I384 AB200		I636 AB200
250	I384 AB250		
300	I384 AB300		
350	I384 AB350		
400	I384 AB400		



03.2 :: ANSI Flanges

American Standard Flanges – ANSI B16.5 continued



Threaded

SIZE (mm)	ANSI 150# BSP THREADED	ANSI 150 NPT	ANSI 300 NPT
15	I384 ASCB15	I384 ASCN15	I384 ASCN 3015
20	I384 ASCB20	I384 ASCN20	I384 ASCN 3020
25	I384 ASCB25	I384 ASCN25	I384 ASCN 3025
32	I384 ASCB32	I384 ASCN32	I384 ASCN 3032
40	I384 ASCB40	I384 ASCN40	I384 ASCN 3040
50	I384 ASCB50	I384 ASCN50	I384 ASCN 3050
65	I384 ASCB65	I384 ASCN65	I384 ASCN 3065
80	I384 ASCB80	I384 ASCN80	I384 ASCN 3080
100	I384 ASCB100	I384 ASCN100	I384 ASCN 3100



Socket Weld

SIZE (mm)	ANSI 150# SOCKET WELD	ANSI 150LB EXTRA STRONG	ANSI 300LB
15	I384 ASW15	I384 ASWXS15	I384 ASW3015
20	I384 ASW20	I384 ASWXS20	I384 ASW020
25	I384 ASW25	I384 ASWXS25	I384 ASW3025
32	I384 ASW32	I384 ASWXS32	I384 ASW3032
40	I384 ASW40	I384 ASWXS40	I384 ASW3040
50	I384 ASW50	I384 ASWXS50	I384 ASW3050



Weld Neck

SIZE (mm)	ANSI 150# STANDARD WEIGHT	ANSI 150# EXTRA STRONG	ANSI 150 SCH 80	ANSI 300 STANDARD WEIGHT	ANSI 300 EXTRA STRONG
15	I384 AWN15	I384 AWNXS15			
20	I384 AWN20	I384 AWNXS20			
25	I384 AWN25	I384 AWNXS25			
32	I384 AWN32	I384 AWNXS32			
40	I384 AWN40	I384 AWNXS40		I384 AWN3040	I384 AWNXS 3050
50	I384 AWN50	I384 AWNXS50		I384 AWN3050	
65	I384 AWN65	I384 AWNXS65			
80	I384 AWN180	I384 AWNXS80		I384 AWN3080	I384 AWNXS 3080
100	I384 AWN100	I384 AWNXS100		I384 AWN3100	I384 AWNXS 3100
150	I384 AWN150	I384 AWNXS150		I384 AWN3150	I384 AWNXS 3150
200	I384 AWN200	I384 AWNXS200		I384 AWN3200	I384 AWNXS3 200
250			I384 AWNS80250		
300			I384 AWNS80300		
350					
400			I384 AWNS80400		
450					

German Standard Flanges – DIN 2527

British Metric - BS4087

Slip On Flanges PN16 Rated

SIZE (mm)	PN16
15	I384 PN1615
20	I384 PN1620
25	I384 PN1625
32	I384 PN1632
40	I384 PN1640
50	I384 PN1650
65	I384 PN1665
80	I384 PN1680
100	I384 PN16100
125	I384 PN16125
150	I384 PN16150
200	I384 PN16200
250	I384 PN16250
300	I384 PN16300



Blind Flanged PN16 Rated

SIZE (mm)	PN16
15	I384 PN1615B
20	I384 PN1620B
25	I384 PN1625B
32	I384 PN1632B
40	I384 PN1640B
50	I384 PN1650B
65	I384 PN1665B
80	I384 PN1680B
100	I384 PN16100B
150	I384 PN16150B



03.4 :: JIS Flanges

Japanese Industrial Standard (JIS)



Slip On Flanges

SIZE (mm)	JIS 5K	JIS 10K	JIS16K	JIS 5 316 STAINLESS STEEL
15	I384 5K015	I384 10K015	I384 10K015	I636 5K15
20	I384 5K020	I384 10K020	I384 10K020	I636 5K20
25	I384 5K025	I384 10K025	I384 10K025	I636 5K25
32	I384 5K032	I384 10K032	I384 10K032	I636 5K32
40	I384 5K040	I384 10K040	I384 10K040	I636 5K40
50	I384 5K050	I384 10K050	I384 16K050	I636 5K50
65	I384 5K065	I384 10K065	I384 16K065	I636 5K65
80	I384 5K080	I384 10K080	I384 16K080	I636 5K80
100	I384 5K100	I384 10K100	I384 16K100	I636 5K100
125	I384 5K125	I384 10K125	I384 16K125	
150	I384 5K150	I384 10K150	I384 16K150	
200	I384 5K200	I384 10K200	I384 16K200	
250	I384 5K250			
300	I384 5K300			



Blind JIS

SIZE (mm)	JIS 5K	JIS 10K	JIS 16K
15	I384 5K015B	I384 10K015B	I384 16K015B
20	I384 5K020B	I384 10K020B	I384 16K020B
25	I384 5K025B	I384 10K025B	I384 16K025B
32	I384 5K032B	I384 10K032B	I384 16K032B
40	I384 5K040B	I384 10K040B	I384 16K040B
50	I384 5K050B	I384 10K050B	I384 16K050B
65	I384 5K065B	I384 10K065B	I384 16K065B
80	I384 5K080B	I384 10K080B	I384 16K080B
100	I384 5K100B	I384 10K100B	I384 16K100B
125	I384 5K125B	I384 10K125B	I384 16K125B
150	I384 5K150B	I384 10K150B	I384 16K150B
200	I384 5K200B	I384 10K200B	I384 16K200B
250	I384 5K250B		
300	I384 5K300B		

Australia Standard

Slip On Flanges

SIZE (mm)	BLACK TABLE "E"	BLACK TABLE "D"	BLACK TABLE "H"	316 S/S TABLE "E"
15	I384 E015	USE TABLE E	I384 H015	I636 E015
20	I384 E020	USE TABLE E	I384 H020	I636 E020
25	I384 E025	USE TABLE E	I384 H025	I636 E025
32	I384 E032	USE TABLE E	I384 H032	I636 E032
40	I384 E040	USE TABLE E	I384 H040	I636 E040
50	I384 E050	USE TABLE E	I384 H050	I636 E050
65	I384 E065	USE TABLE E	I384 H065	I636 E065
80	I384 E080	USE TABLE E	I384 H080	I636 E080
100	I384 E100	I384 D100	I384 H100	I636 E100
125	I384 E125	I384 D125	I384 H125	I636 E125
150	I384 E150	I384 D150	I384 H150	I636 E150
200	I384 E200	I384 D200	I384 H200	I636 E200
250	I384 E250	I384 D250		
300	I384 E300	I384 D300		
350	I384 E350	I384 D350		
400	I384 E400	I384 D400		
450	I384 E450			



Blind Flanges

SIZE (mm)	BLACK TABLE "E"	BLACK TABLE "D"	BLACK TABLE "H"	316 S/S TABLE "E"
15	I384 EB015	USE TABLE E	I384 HB015	I636 EB015
20	I384 EB020	USE TABLE E	I384 HB020	I636 EB020
25	I384 EB025	USE TABLE E	I384 HB025	I636 EB025
32	I384 EB032	USE TABLE E	I384 HB032	I636 EB032
40	I384 EB040	USE TABLE E	I384 HB040	I636 EB040
50	I384 EB050	USE TABLE E	I384 HB050	I636 EB050
65	I384 EB065	USE TABLE E	I384 HB065	I636 EB065
80	I384 EB080	USE TABLE E	I384 HB080	I636 EB080
100	I384 EB100	I384 DB100	I384 HB100	I636 EB100
125	I384 EB125	I384 DB125	I384 HB125	I636 EB125
150	I384 EB150	I384 DB150	I384 HB150	I636 EB150
200	I384 EB200	I384 DB200	I384 HB200	I636 EB200
250	I384 EB250	I384 DB250		
300	I384 EB300	I384 DB300		
350	I384 EB350	I384 DB350		
400	I384 EB400	I384 DB400		
450	I384 E450			



03.5 :: Table E, D & H Flanges

Australian Standard continued



3mm Nitrile Full Face Gaskets

SIZE (mm)	TABLE "E"	TABLE "H"	JIS 5K	JIS 10K	JIS16K	PN16
15	484 RG15	I384 HG015	I384 5KG15	I384 10KG15	SAME AS 10K	I384 PN16G15
20	484 RG20	I384 HG020	I384 5KG20	I384 10KG20	SAME AS 10K	I384 PN16G20
25	484 RG25	I384 HG025	I384 5KG25	I384 10KG25	SAME AS 10K	I384 PN16G25
32	484 RG32	I384 HG032	I384 5KG32	I384 10KG32	SAME AS 10K	I384 PN16G32
40	484 RG40	I384 HG040	I384 5KG40	I384 10KG40	SAME AS 10K	I384 PN16G40
50	484 RG50	I384 HG050	I384 5KG50	I384 10KG50	I384 16KG50	I384 PN16G50
65	484 RG65	I384 HG065	I384 5KG65	I384 10KG65	I384 16KG65	I384 PN16G65
80	484 RG80	I384 HG080	I384 5KG80	I384 10KG80	I384 16KG80	I384 PN16G80
100	484 RG100	I384 HG100	I384 5KG100	I384 10KG100	I384 16KG100	I384 PN16G100
125	484 RG125	I384 HG125	I384 5KG125	I384 10KG125	I384 16KG150	I384 PN16G125
150	484 RG150	I384 HG200	I384 5KG150	I384 10KG150	I384 16KG200	I384 PN16G150
200	484 RG200		I384 5KG200	I384 10KG200	I384 16KG200	I384 PN16G200
250	484 RG250		I384 5KG250	I384 10KG250		
300	484 RG300					
350	484 RG350					

1.5mm Fibre Gaskets

SIZE (mm)	TABLE "E" FULL FACE	ANSI 150# RING	ANSI 150# 16KG	ANSI FULL FACE
15	484 EG015	484 RF015		484 FF15
20	484 EG020	484 RF020	I384 16K20B	484 FF20
25	484 EG025	484 RF025	I384 16K25B	484 FF25
32	484 EG032	484 RF032	I384 16K32B	484 FF32
40	484 EG040	484 RF040	I384 16K40B	484 FF40
50	484 EG050	484 RF050	I384 16K050B	484 FF50
65	484 EG065	484 RF065	I384 16K065B	484 FF65
80	484 EG080	484 RF080	I384 16K080B	484 FF80
100	484 EG100	484 RF100	I384 16K100B	484 FF100
125	484 EG125	484 RF125	I384 16K125B	484 FF125
150	484 EG150	484 RF150	I384 16K150B	484 FF150
200	484 EG200	484 RF200	I384 16K200B	484 FF200
250	484 EG250	484 RF250		484 FF250
300	484 EG300	484 RF300		
		484 RF350		

**Specials Gaskets**

SIZE (mm)	ANSI 150# SPIRAL WOUND SS INNER/OUTER	TABLE "D" GRAPHITE EXHAUST GASKET	TABLE "D" NITRILE TUBE GASKETS
15	484 SR15		
20	484 SR20		
25	484 SR25		484 NGT25
32	484 SR32		484 NGT32
40	484 SR40		484 NGT40
50	484 SR050	484 DGR050	484 NGT50
65	484 SR065	484 DGR065	484 NGT65
80	484 SR080	484 DGR080	484 NGT80
100	484 SR100	484 DGR100	484 NGT100
125	484 SR125	484 DGR125	
150	484 SR150	484 DGR150	
200	484 SR200	484 DGR200	
250	484 SR250		
300	484 SR300		
350			

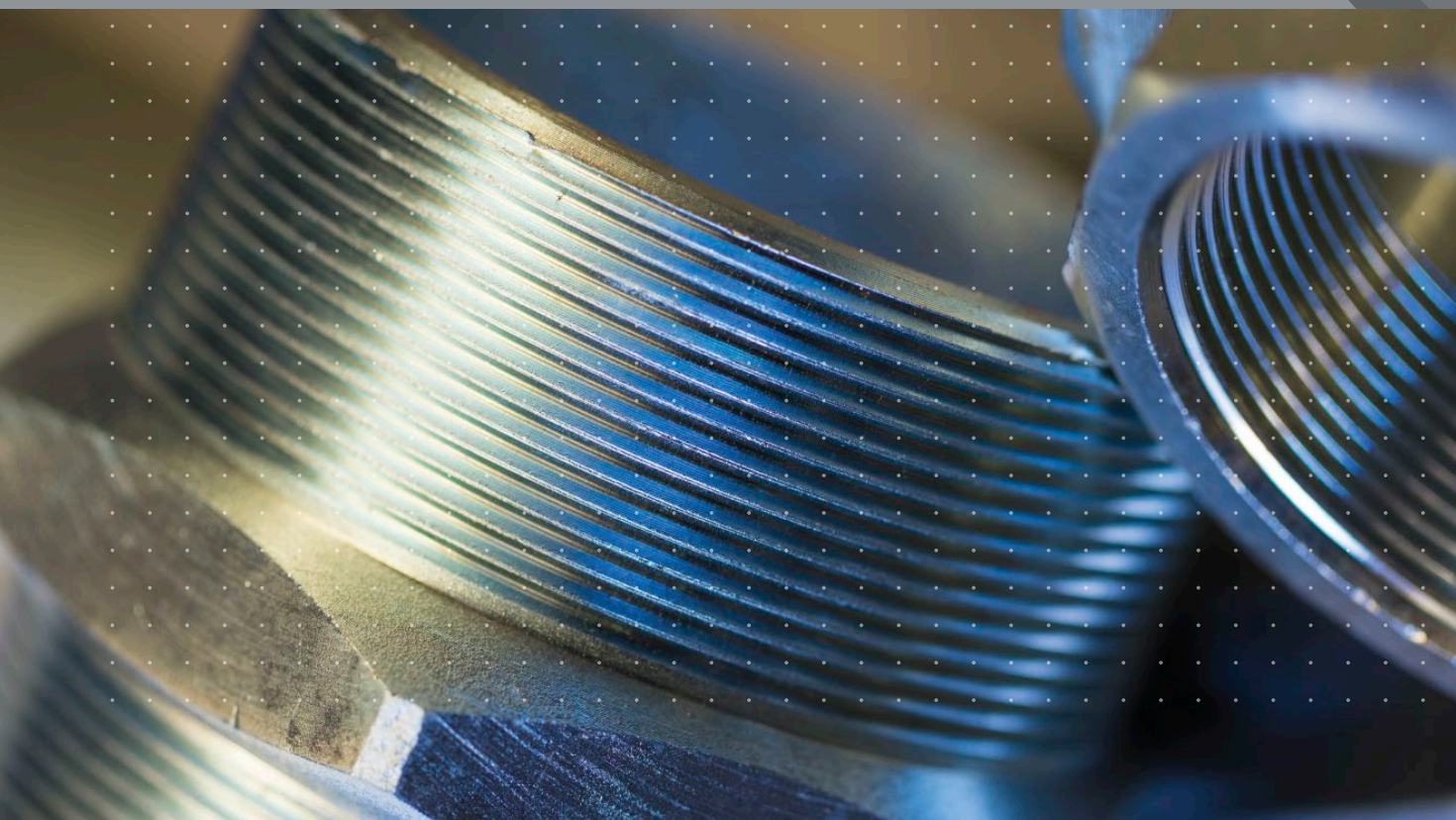


Other Types, Materials, Sizes and Standards are available upon request

04

THREADED FITTINGS

THREADED FITTINGS



04 :: Threaded Fittings

NPT THREAD SIZES

SIZE (inches)	TPI (threads per inch)	PITCH (inches or mm)	APPROXIMATE LENGTH OF THREAD (inches or mm)	APPROXIMATE NUMBER OF THREADS TURNS TO BE CUT	APPROXIMATE TOTAL THREAD MAKEUP, HAND AND WRENCH (inches or mm)	NOMINAL OUTSIDE PIPE DIAMETER OD (inches or mm)	TAP DRILL (inches or mm)
1/16	27	0.03703704 in or 0.9407 mm				0.313 in or 7.950 mm	
1/8	27	0.03703704 in or 0.9407 mm	3/8 in or 9.525 mm	10	1/4 in or 6.350 mm	0.405 in or 10.287 mm	0.339 in or 8.6106 mm
1/4	18	0.0555 in or 1.4097 mm	5/8 in or 15.875 mm	11	3/8 in or 9.525 mm	0.540 in or 13.716 mm	7/16 in or 11.113 mm
3/8	18	0.05555555 in or 1.4111 mm	5/8 in or 15.875 mm	11	3/8 in or 9.525 mm	0.675 in or 17.145 mm	37/64 in or 14.684 mm
1/2	14	0.07142857 in or 1.8143 mm	3/4 in or 19.0500 mm	10	7/16 in or 11.1125 mm	0.840 in or 21.3360 mm	23/32 in or 18.2563 mm
3/4	14	0.07142857 in or 1.8143 mm	3/4 in or 19.0500 mm	10	1/2 in or 12.7000 mm	1.050 in or 26.6700 mm	59/64 in or 23.4156 mm
1	11/01/02	0.08695652 in or 2.2087 mm	7/8 in or 22.2250 mm	10	9/16 in or 14.2875 mm	1.315 in or 33.4010 mm	1 5/32 in or 29.3688 mm
1 1/4	11/01/02	0.08695652 in or 2.2087 mm	1 in or 25.4000 mm	11	9/16 in or 14.2875 mm	1.660 in or 42.1640 mm	1 1/2 in or 38.1000 mm
1 1/2	11/01/02	0.08695652 in or 2.2087 mm	1 in or 25.4000 mm	11	9/16 in or 14.2875 mm	1.900 in or 48.2600 mm	1 47/64 in or 44.0531 mm
2	11/01/02	0.08695652 in or 2.2087 mm	1 in or 25.4000 mm	11	5/8 in or 15.8750 mm	2.375 in or 60.3250 mm	2 3/32 in or 56.3563 mm
2 1/2	8	0.125 in or 3.1750 mm	1 1/2 in or 38.1000 mm	12	7/8 in or 22.2250 mm	2.875 in or 73.0250 mm	2 5/8 in or 66.6750 mm
3	8	0.125 in or 3.1750 mm	1 1/2 in or 38.1000 mm	12	1 in or 25.4000 mm	3.500 in or 88.9000 mm	3 1/4 in or 82.5500 mm
3 1/2	8	0.125 in or 3.1750 mm	1 5/8 in or 15.8750 mm	13	1 1/16 in or 26.9875 mm	4.000 in or 101.6000 mm	3 3/4 in or 95.2500 mm
4	8	0.125 in or 3.1750 mm	1 5/8 in or 41.2750 mm	13	1 1/16 in or 26.9875 mm	4.500 in or 114.3000 mm	4 1/4 in or 107.9500 mm
4 1/2	8	0.125 in or 3.1750 mm				5.000 in or 127.0000 mm	4 3/4 in or 120.6500 mm
5	8	0.125 in or 3.1750 mm	1 3/4 in or 44.4500 mm	14	1 3/16 in or 30.1625 mm	5.563 in or 141.3002 mm	5 9/32 in or 134.1438 mm
6	8	0.125 in or 3.1750 mm	1 3/4 in or 44.4500 mm	14	1 3/16 in or 30.1625 mm	6.625 in or 168.2750 mm	6 11/32 in or 161.1313 mm

BRITISH STANDARD THREAD SIZES

DASH THREAD SIZE	BSP SIZE (in)	THREAD PITCH		THREAD MAJOR DIAMETER		THREAD MINOR DIAMETER ^{[3][4]}		A/F (mm)	GAUGE LENGTH (mm)	CORRESPONDING PIPE				TAPPING DRILL SIZE (mm)	
		/in (TPI)	(mm)	(mm)	(in)	(mm)	(in)			DN (mm)	OD (mm)	OD (in)	Thickness (mm)	BSP.PL (Rp)	BSP.F (G)
-1	1/16	28	0.907	7.723	0.304	6.561	0.2583		4±0.9					6.6	6.8
-2	1/8	28	0.907	9.728	0.383	8.565	0.3372	15	4±0.9	6	10.2	0.4	2	8.6	8.8
-4	1/4	19	1.337	13.157	0.518	11.445	0.4506	19	6±1.3	8	13.5	0.53	2.3	11.5	11.8
-6	3/8	19	1.337	16.662	0.656	14.95	0.5886	22 / 23	6.4±1.3	10	17.2	0.68	2.3	15	15.25
-8	1/2	14	1.814	20.955	0.825	18.633	0.7336	27	8.2±1.8	15	21.3	0.84	2.6	18.75	19
-10	5/8	14	1.814	22.911	0.902	20.589	0.8106			16			2.6	-	21
-12	3/4	14	1.814	26.441	1.041	24.12	0.9496	32	9.5±1.8	20	26.9	1.06	2.6	24.25	24.5
-16	1	11	2.309	33.249	1.309	30.292	1.1926	43	10.4±2.3	25	33.7	1.33	3.2	30.4	30.75
-20	1 1/4	11	2.309	41.91	1.65	38.953	1.5336	53	12.7±2.3	32	42.4	1.67	3.2	39	39.5
-24	1 1/2	11	2.309	47.803	1.882	44.846	1.7656	57	12.7±2.3	40	48.3	1.9	3.2	45	45
-32	2	11	2.309	59.614	2.347	56.657	2.2306	70	15.9±2.3	50	60.3	2.37	3.6	56.75	57
-40	2 1/2	11	2.309	75.184	2.96	72.227	2.8436		17.5±3.5	65	76.1	3	3.6		
-48	3	11	2.309	87.884	3.46	84.927	3.3436		20.6±3.5	80	88.9	3.5	4		
-64	4	11	2.309	113.03	4.45	110.073	4.3336		25.5±3.5	100	114.3	4.5	4.5		
-80	5	11	2.309	138.43	5.45	135.472	5.3335		28.6±3.5	125	139.7	5.5	5		
-96	6	11	2.309	163.83	6.45	160.872	6.3335		28.6±3.5	150	165.1	6.5	5		

04.1 :: Elbows



Elbows 90° FEMALE / FEMALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
3		I377 0006	I377 GS006	I505 0006		I641 006	I641 NPT006
6	477 0008	I377 0008	I377 GS008	I505 0008		I641 008	I641 NPT008
10	477 0010	I377 0010	I377 GS010	I505 0010		I641 010	I641 NPT010
15	477 0015	I377 0015	I377 GS015	I505 0015	676 0015	I641 015	I641 NPT015
20	477 0020	I377 0020	I377 GS020	I505 0020	676 0020	I641 020	I641 NPT020
25	477 0025	I377 0025	I377 GS025	I505 0025	676 0025	I641 025	I641 NPT025
32	477 0032	I377 0032	I377 GS032	I505 0032	676 0032	I641 032	I641 NPT032
40	477 0040	I377 0040	I377 GS040	I505 0040	676 0040	I641 040	I641 NPT040
50	477 0050	I377 0050	I377 GS050	I505 0050	676 0050	I641 050	I641 NPT050
65	477 0065	I377 0065	I377 GS065	I505 0065	676 0065	I641 065	I641 NPT065
80	477 0080	I377 0080	I377 GS080	I505 0080	676 0080	I641 080	I641 NPT080
100	477 0100	I377 0100	I377 GS100	I505 0100	676 0100	I641 100	I641 NPT100



Elbows 90° MALE / FEMALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
3		I378 0006	I378 GS006	I506 0006		I641 1006	I641 NPT1006
6	478 0008	I378 0008	I378 GS008	I506 0008		I641 1008	I641 NPT1008
10	478 0010	I378 0010	I378 GS010	I506 0010		I641 1010	I641 NPT1010
15	478 0015	I378 0015	I378 GS015	I506 0015	677 0015	I641 1015	I641 NPT1015
20	478 0020	I378 0020	I378 GS020	I506 0020	677 0020	I641 1020	I641 NPT1020
25	478 0025	I378 0025	I378 GS025	I506 0025	677 0025	I641 1025	I641 NPT1025
32	478 0032	I378 0032	I378 GS032	I506 0032	677 0032	I641 1032	I641 NPT1032
40	478 0040	I378 0040	I378 GS040	I506 0040	677 0040	I641 1040	I641 NPT1040
50	478 0050	I378 0050	I378 GS050	I506 0050	677 0050	I641 1050	I641 NPT1050
65	478 0065	I378 0065	I378 GS065	I506 0065	677 0065	I641 1065	I641 NPT1065
80	478 0080	I378 0080	I378 GS080	I506 0080	677 0080	I641 1080	I641 NPT1080
100	478 0100	I378 0100	I378 GS100	I506 0100	677 0100	I641 1100	I641 NPT1100

Elbows 45° MALE /FEMALE

SIZE (inches)	STAINLESS STEEL 316	GAL MAL	
1/8	I641 45M06		
1/4	I641 45M08		
3/8	I641 4M510		
1/2	I641 45M15	478 4515	
3/4	I641 45M20	478 4520	
1	I641 45M25	478 4525	
1 1/4	I641 45M32	478 4532	
1 1/2	I641 45M40	478 4540	
2	I641 45M50		
2 1/2	I641 45M65		
3	I641 45M80		
4	I641 45M100		


Elbows 45° FEMALE / FEMALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	SIZE (inches)	STAINLESS STEEL 316
15	477 4515		I377 GS4515	I505 4515		1/8	I641 4506
20	477 4520		I377 GS4520	I505 4520		1/4	I641 4508
25	477 4525	I377 4525	I377 GS4525	I505 4525		3/8	I641 4510
32	477 4532		I377 GS4532	I505 4532		1/2	I641 4515
40	477 4540		I377 GS4540	I505 4540		3/4	I641 4520
50	477 4550	I377 4550	I377 GS4550			1	I641 4525
65	477 4565					1 1/4	I641 4532
80	477 4580					1 1/2	I641 4540
100	477 45100					2	I641 4550
						2 1/2	I641 4565
						3	I641 4580
						4	I641 45100



04.2 :: Tees & Sockets



Equal Tees FEMALE / FEMALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALVANISED STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT	BRASS MALE TEE	BRASS FEMALE TEE BLOCK
3		I379 0006	I379 GS006	I512 0006		I639 006			512 TH03
6	479 0008	I379 0008	I379 GS008	I512 0008		I639 008	I639 NPT008	512 MT006	512 TH06
10	479 0010	I379 0010	I379 GS010	I512 0010		I639 010	I639 NPT010	512 MT010	512 TH10
15	479 0015	I379 0015	I379 GS015	I512 0015	675 0015	I639 015	I639 NPT015	512 MT015	
20	479 0020	I379 0020	I379 GS020	I512 0020	675 0020	I639 020	I639 NPT020		
25	479 0025	I379 0025	I379 GS025	I512 0025	675 0025	I639 025	I639 NPT025		
32	479 0032	I379 0032	I379 GS032	I512 0032	675 0032	I639 032	I639 NPT032		
40	479 0040	I379 0040	I379 GS040	I512 0040	675 0040	I639 040	I639 NPT040		
50	479 0050	I379 0050	I379 GS050	I512 0050	675 0050	I639 050	I639 NPT050		
65	479 0065	I379 0065	I379 GS 065	I512 0065	675 0065	I639 065			
80	479 0080	I379 0080	I379 GS080	I512 0080	675 0080	I639 080			
100	479 100	I379 0100	I379 GS100	I512 0100	675 0100	I639 100			



Equal Sockets FEMALE / FEMALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALVANISED STEEL	BRONZE	POLY	STAINLESS STEEL BSP	STAINLESS STEEL BSP HEAVY	STAINLESS STEEL 316 NPT
3		I380 0006	I380 GS006	I510 0006	673 0006	I646 006		
6	480 0008	I380 0008	I380 GS008	I510 0008	673 0008	I646 008		I645 NPT008
10	480 0010	I380 0010	I380 GS010	I510 0010	673 0010	I646 010		I645 NPT010
15	480 0015	I380 0015	I380 GS015	I510 0015	673 0015	I646 015	I646 H015	I645 NPT015
20	480 0020	I380 0020	I380 GS020	I510 0020	673 0020	I646 020	I646 H020	I645 NPT020
25	480 0025	I380 0025	I380 GS025	I510 0025	673 0025	I646 025	I646 H025	I645 NPT025
32	480 0032	I380 0032	I380 GS032	I510 0032	673 0032	I646 032	I646 H032	I645 NPT032
40	480 0040	I380 0040	I380 GS040	I510 0040	673 0040	I646 040	I646 H038	I645 NPT040
50	480 0050	I380 0050	I380 GS050	I510 0050	673 0050	I646 050	I646 H050	I645 NPT050
65	480 0065	I380 0065	I380 GS 065	I510 0065	673 0065	I646 065	I646 H065	
80	480 0080	I380 0080	I380 GS080	I510 0080	673 0080	I646 080	I646 H080	
100	480 0100	I380 0100	I380 GS100	I510 0100	673 100	I646 100	I646 H100	
125		I380 0125						
150	480 0150	I380 0150						



Hex Nipples MALE / MALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALVANISED STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL BSP HEAVY	STAINLESS STEEL 316 NPT	BRASS FEMALE TEE BLOCK
3	481 0006	I381 0006	I381 GS006		672 0006	I644 006	I644 H006		512 TH03
6	481 0008	I381 0008	I381 GS008	I508 0008	672 0008	I644 008	I644 H008	I644 NPT008	512 TH06
10	481 0010	I381 0010	I381 GS010	I508 0010	672 0010	I644 010	I644 H010	I644 NPT010	512 TH10
15	481 0015	I381 0015	I381 GS015	I508 0015	672 0015	I644 015	I644 H015	I644 NPT015	
20	481 0020	I381 0020	I381 GS020	I508 0020	672 0020	I644 020	I644 H020	I644 NPT020	
25	481 0025	I381 0025	I381 GS025	I508 0025	672 0025	I644 025	I644 H025	I644 NPT025	
32	481 0032	I381 0032	I381 GS032	I508 0032	672 0032	I644 032	I644 H032	I644 NPT032	
40	481 0040	I381 0040	I381 GS040	I508 0040	672 0040	I644 040	I644 H040	I644 NPT040	
50	481 0050	I381 0050	I381 GS050	I505 0050	672 0050	I644 050	I644 H050	I644 NPT050	
65	481 0065	I381 0065	I381 GS065	I508 0065	672 0065	I644 065	I644 H065	I644 NPT065	
80	481 0080	I381 0080	I381 GS080	I508 0080	672 0080	I644 080	I644 H080	I644 NPT080	
100	481 0100	I381 0100	I381 GS100	I508 0100	672 0100	I644 100	I644 H100	I644 NPT100	
125	481 0125					I644 125		I644 NPT125	
150	481 0150					I644 150		I644 NPT150	

Barrel Nipples MALE / MALE

SIZE (mm)	BLACK STEEL	STAINLESS STEEL 316 BSP
06		I642 006
08		I642 008
10		I642 010
15	I342 0015	I642 015
20	I342 0020	I642 020
25	I342 0025	I642 025
32	I342 0032	I642 032
40	I342 0040	I642 040
50	I342 0050	I642 050
65	I342 0065	I642 065
80	I342 0080	I642 080
100	I342 0100	I642 100



04.3 :: Nipples



Toe Nipples

SIZE (inches)	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT	
1/8	I643 006	I643 NPT006	
1/4	I643 008	I643 NPT008	
3/8	I643 010	I643 NPT010	
1/2	I643 015	I643 NPT015	
3/4	I643 020	I643 NPT020	
1	I643 025	I643 NPT025	
1 1/4	I643 032	I643 NPT 032	
1 1/2	I643 040	I643 NPT040	
2	I643 050	I643 NPT050	
2 1/2	I643 065	I643 NPT065	
3	I643 080	I643 NPT075	
4	I643 100	I643 NPT100	
5	I643 125	I643 NPT125	
6	I643 150	I643 NPT150	

Nipples :: 04.3



Reducing Nipple

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	SIZE (inches)	BSP	NPT
6 x 3		I376 0806	I376 GS0806	514 0806		3/8 x 1/8	I648 1006	
10 x 3		I376 1006	I376 GS1006	514 1006	679 1006	3/8 x 1/4	I648 1008	I648 NPT1008
10 x 6	476 1008	I376 1008	I376 GS1008	514 1008	679 1008	1/2 x 1/8	I648 1506	
15 x 3				514 1506	679 1506	1/2 x 1/4	I648 1508	I648 NPT1508
15 x 6	476 1508	I376 1508	I376 GS1508	514 1508	679 1508	1/2 x 3/8	I648 1510	I648 NPT1510
15 x 10	476 1510	I376 1510	I376 GS1510	514 1510	679 1510	3/4 x 1/4	I648 2008	
20 x 6	476 2008					3/4 x 3/8	I648 2010	
20 x 10	476 2010			514 2010	679 2010	3/4 x 1/2	I648 2015	I648 NPT2015
20 x 15	476 2015	I376 2015	I376 GS2015	514 2015	679 2015	1 x 1/4	I648 2508	
25 x 6						1 x 3/8	I648 2510	
25 x 10						1 x 1/2	I648 2515	I648 NPT2515
25 x 15	476 2515	I376 2515	I376 GS2515	514 2515	679 2515	1 x 3/4	I648 2520	I648 NPT2520
25 x 20	476 2520	I376 2520	I376 GS2520	514 2520	679 2520	1 1/4 x 3/4	I648 3220	
32 x 15	476 3215			514 3215		1 1/4 x 1	I648 3225	I648 NPT3225
32 x 20	476 3220	I376 3220	I376 GS3220	514 3220	679 3220	1 1/2 x 1/2	I648 4015	
32 x 25	476 3225	I376 3225	I376 GS3225	514 3225	679 3225	1 1/2 x 3/4	I648 4020	
40 x 15	476 4015			514 4015		1 1/2 x 1	I648 4025	I648 NPT4025
40 x 20	476 4020	I376 4020	I376 GS4020	514 4015	679 3820	1 1/2 x 1 1/4	I648 4032	I648 NPT4032
40 x 25	476 4025	I376 4025	I376 GS4025	514 4025	679 4025	2 x 1/2	I648 5015	
40 x 32	476 4032	I376 4025	I376 GS4025	514 4032	679 3832	2 x 3/4	I648 5020	
50 x 20	476 5020	I376 5020	I376 GS5020	514 5020	679 5020	2 x 1	I648 5025	I648 NPT5025
50 x 25	476 5025	I376 5025	I376 GS5025	514 5025	679 5025	2 x 1 1/4	I648 5032	I648 NPT5032
50 x 32	476 5032	I376 5032	I376 GS5032	514 5032	679 5032	2 x 1 1/2	I648 5040	I648 NPT5040
50 x 40	476 5040	I376 5040	I376 GS5040	514 5040	679 5040	2 1/2 x 2	I648 6550	I648 NPT6550
65 x 25	476 6525			514 6525		3 x 2	I648 8050	I648 NPT8050
65 x 32	476 6532			514 6532	679 6532	3 x 2 1/2	I648 8065	I648 NPT8065
65 x 40	476 6540	I376 6540	I376 GS6540	514 6540	679 6540	4 x 2	I648 10050	I648 NPT10050
65 x 50	476 6550	I376 6550	I376 GS6550	514 6550	679 6550	4 x 2 1/2	I648 10065	I648 NPT10065
80 x 32	476 8032					4 x 3	I648 10080	I648 NPT10080
80 x 40	476 8040					5 x 4	I648 125100	
80 x 50	476 8050	I376 8050	I376 GS8050	514 8050	676 8050	6 x 4	I648 150100	
80 x 65	476 8065	I376 8065	I376 GS8065	514 8065	679 8065			I648 NPT8050
100 x 50	476 9050	I376 9050	I376 GS9050	514 9050	679 10050			I648 NPT8065
100 x 65	476 9065			514 9065	679 10065			
100 x 80	476 9080	I376 9080	I376 GS9080	514 9080	679 10080			I648 NPT10050
100 x 65	475 9065	I375 9065	I375 GS9065	503 9065	671 10065			I648 NPT10065
100 x 80	475 9080	I375 9080	I376 GS9080	I503 10080	671 10080			I648 NPT10080

04.4 :: Bushes



Reducing Bushes

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
6 x 3		I375 0806	I375 GS0806	I5030806	671 0608	I647 0806	I647 NPT0806
10 x 3	475 1006	I375 1006	I375 GS1006	503 1006	671 1006	I647 1006	I647 NPT1006
10 x 6	475 1008	I375 1006	I375 GS1008	I503 1006	671 1008	I647 1008	I647 NPT1008
15 x 3				503 1506	671 1506	I647 1206	
15 x 6	475 1508	I375 1508	I375 GS1508	I503 1508	671 1508	I647 1508	I647 NPT1508
15 x 10	475 1510	I375 1510	I375 GS1510	I503 1510	671 1510	I647 1510	I647 NPT1510
20 x 6	475 2008			503 2008	671 2008	I647 2008	
20 x 10	475 2010	I375 2010	I375 GS2010	I503 2010	671 2010	I647 2010	I647 NPT2010
20 x 15	475 2015	I375 2015	I375 GS2015	503 2015	671 2015	I647 2015	I647 NPT1015
25 x 6	475 2508			503 2508	671 2508	I647 2508	
25 x 10	475 2510			503 2510	671 2510	I647 2510	
25 x 15	475 2515	I375 2515	I375 GS2515	503 2515	671 2515	I647 2515	I647 NPT2515
25 x 20	475 2520	I375 2520	I375 GS2520	I503 2520	671 2520	I647 2520	I647 NPT2520
32 x 15	475 3215			503 3215	671 3215		
32 x 20	475 3220	I375 3220	I375 GS3220	503 3220	671 3220	I647 3220	
32 x 25	475 3225	I375 3225	I375 GS3225	I503 3225	671 3225	I647 3225	I647 NPT3225
40 x 15	475 4015			503 4015	671 4015	I647 4015	
40 x 20	475 4020	I375 4020	I375 GS4020	503 4020	671 4020	I647 4020	
40 x 25	475 4025	I375 4025	I375 GS4025	503 4025	671 4025	I647 4025	I647 NPT4025
40 x 32	475 4032	I375 4032	I375 GS4025	I503 4032	671 4032	I647 4032	I647 NPT4032
50 x 15	475 5015				671 5015	I647 5015	
50 x 20	475 5020	I375 5020	I375 GS5020	503 5020	679 5020	I647 5020	
50 x 25	475 5025	I375 5025	I375 GS5025	503 5025	671 5025	I647 5025	I647 NPT5025
50 x 32	475 5032	I375 5032	I375 GS5032	503 5032	671 5032	I647 5032	I647 NPT5032
50 x 40	475 5040	I375 5040	I375 GS5040	503 5040	671 5040	I647 5040	I647 NPT5040
65 x 25	475 6525			503 6525			
65 x 32	475 6532			503 6532	671 6532		
65 x 40	475 6540	I375 6540	I375 GS6540	503 6540	671 6540		
65 x 50	475 6550	I375 6550	I375 GS6550	503 6550	671 6550	I647 6550	I647 NPT6550
80 x 32	475 8032						
80 x 40	475 8040				671 8040		
80 x 50	475 8050	I375 8050	I375 GS8050	503 8050	671 8050	I647 8050	I647 NPT8050
80 x 65	475 8065	I375 8065	I375 GS8065	503 8065	671 8065	I647 8065	I647 NPT8065
100 x 40				503 9040		I647 10040	
100 x 50	475 9050	I375 9050	I375 GS9050	503 9050	671 10050	I647 10050	I647 NPT10050
100 x 65	475 9065	I375 9065	I375 GS9065	503 9065	671 10065	I647 10065	I647 NPT10065
100 x 80	475 9080	I375 9080	I375 GS9080	I503 10080	671 10080	I647 10080	I647 NPT10080
150 x 100	475 150100					I647 150100	
150 x 125						I647 150125	



Reducing Sockets

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	SIZE (inches)	STAINLESS STEEL 316 NPT
6 x 3				511 0806		¼ x ⅛	I646 0806
10 x 3				511 1006		⅜ x ⅛	I646 1006
10 x 6				511 1008		⅜ x ¼	I646 1008
15 x 3						½ x ¼	I646 1508
15 x 6				511 1508		½ x ⅜	I646 1510
15 x 10	489 1510			511 1510		¾ x ¼	I646 2008
20 x 6						¾ x ⅜	I646 2010
20 x 10	489 2010					¾ x ½	I646 2015
20 x 15	489 2015			511 2015	673 2015	1 x ¼	I646 2508
25 x 6						1 x ⅜	I646 2510
25 x 10						1 x ½	I646 2515
25 x 15	489 2515			511 2515	673 2515	1 x ¾	I646 2520
25 x 20	489 2520			511 2520	673 2520	1¼ x ¾	I646 3220
32 x 15						1¼ x 1	I646 3225
32 x 20					673 3220	1½ x ¾	I646 4020
32 x 25	489 3225			511 3225	673 3225	1½ x 1	I646 4025
40 x 15						1½ x 1¼	I646 4032
40 x 20	489 4020				673 4020	2 x 1	I646 5025
40 x 25	489 4025				673 4025	2 x 1¼	I646 5032
40 x 32	489 4032			511 4032	673 4032	2 x 1½	I646 5040
50 x 20	489 5020				673 5020	2½ x 1¼	I646 6540
50 x 25	489 5025				673 5025	2½ x 2	I646 6550
50 x 32	489 5032				673 5032	3 x 2	I646 8050
50 x 40	489 5040			511 5040	673 5040	3 x 2½	I646 8065
65 x 25						4 x 2	I646 10050
65 x 32						4 x 2½	I646 10065
65 x 40	489 6540				673 6540	4 x 3	I646 10080
65 x 50	489 6550				673 6550		
80 x 32							
80 x 40							
80 x 50	489 8050			511 8050	673 8050		
80 x 65	489 8065			511 8065	673 8065		
100 x 50	489 10050			511 9050			
100 x 65	489 10065			511 9065	673 10065		
100 x 80	489 10080			511 9080	673 10080		

04.6 :: Caps



BEP Female							
SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
3		I383 0006	I383 GS006			I640 006	I640 NPT06
6	483 0008	I383 0008	I383 GS008	I504 0008		I640 008	I640 NPT08
10	483 0010	I383 0010	I383 GS010	I504 0010		I640 010	I640 NPT10
15	483 0015	I383 0015	I383 GS015	I504 0015	674 0015	I640 015	I640 NPT15
20	483 0020	I383 0020	I383 GS020	I504 0020	674 0020	I640 020	I640 NPT20
25	483 0025	I383 0025	I383 GS025	I504 0025	674 0025	I640 025	I640 NPT25
32	483 0032	I383 0032	I383 GS032	I504 0032	674 0032	I640 032	I640 NPT32
40	483 0040	I383 0040	I383 GS040	I504 0040	674 0040	I640 040	I640 NPT40
50	483 0050	I383 0050	I383 GS050	I504 0050	674 0050	I640 050	I640 NPT50
65	483 0065			I504 0065	674 0065	I640 065	I640 NPT65
80	483 0080			I504 0080	674 0080	I640 080	I640 NPT 80
100	483 0100			I504 0100	674 0100	I640 100	I640 NPT100
150	483 0150						

Plugs :: 04.7



Plugs							
SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
3	482 0006	I382 0006	I382 GS0006	I509 0006	670 0006	I645 006	
6	482 0008	I382 0008	I382 GS0008	I509 0008	670 0008	I645 008	I645 NPT008
10	482 0010	I382 0010	I382 GS0010	I509 0010	670 0010	I645 010	I645 NPT010
15	482 0015	I382 0015	I382 GS0015	I509 0015	670 0015	I645 015	I645 NPT015
20	482 0020	I382 0020	I382 GS0020	I509 0020	670 0020	I645 020	I645 NPT020
25	482 0025	I382 0025	I382 GS0025	I509 0025	670 0025	I645 025	I645 NPT025
32	482 0032	I382 0032	I382 GS0032	I509 0032	670 0032	I645 032	I645 NPT032
40	482 0040	I382 0040	I382 GS0040	I509 0040	670 0040	I645 040	I645 NPT040
50	482 0050	I382 0050	I382 GS0050	I509 0050	670 0050	I645 020	I645 NPT050
65	482 0065			I509 0065	670 0065	I645 065	I645 NPT065
80	482 0080			I509 0080	670 0080	I645 080	I645 NPT080
100	482 0100			I509 0100	670 0100	I645 100	I645 NPT100
125							
150							

04.8 :: Unions



BSP Female

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP
3				513 0006		I637 006
6				513 0008		I637 008
10	485 0010			513 0010		I637 010
15	485 0015	I385 0015	I385 GS0015	513 0016	685 0015	I637 015
20	485 0020	I385 0020	I385 GS0020	513 0020	685 0020	I637 020
25	485 0025	I385 0025	I385 GS0025	513 0025	685 0025	I637 025
32	485 0032	I385 0032	I385 GS0032	513 0032	685 0032	I637 032
40	485 0040	I385 0040	I385 GS0040	513 0040	685 0040	I637 040
50	485 0050	I385 0050	I385 GS0050	513 0050	686 0050	I637 050
65	485 0065	I385 0065	I385 GS0065	513 0065		I637 065
80	485 0080	I385 0080	I385 GS0080	513 0080		I637 080
100	485 0100	I385 000	I385 GS0100	513 0100		I637 100

04.9 :: Locknuts



Locknuts

SIZE (mm)	GAL MAL	BRONZE	POLY SMALL	POLY LARGE	STAINLESS STEEL 316	STAINLESS STEEL 316 BACKNUT
3		507 0006			I635 006	
6		507 0008			I635 008	
10		507 0010			I635 010	
15	474 0015	507 0015	682 S015	682 L015	I635 015	I 605 N015
20	474 0020	507 0020	682 S020	682 L020	I635 020	I 605 N020
25	474 0025	507 0025	682 S025	682 L025	I635 025	I 605 N025
32	474 0032	507 0032	682 S032	682 L032	I635 032	I 605 N032
40	474 0040	507 0040	682 S040	682 L040	I635 040	I 605 N040
50	474 0050	507 0050	682 S050	682 L050	I635 050	I 605 N050
65	474 0065	507 0065			I635 065	I 605 N065
80	474 0080	507 0080			I635 080	I 605 N080
100	474 00100				I635 100	I 605 N100

Lump Ends

SIZE (mm)	BRONZE	POLY	Z/P STEEL RC	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT	BUTTWELD	STAINLESS STEEL 316 FEMALE
3		679 0606		I649 006			I649 FT006
6		679 0808		I649 008	I649 NPT08		I649 FT008
10		679 1010		I649 010	I649 NPT10		I649 FT010
15	I500 1515	679 1515	I610 015	I649 015	I649 NPT15		I649 FT015
20	I500 2020	679 2020	I610 020	I649 020	I649 NPT20		I649 FT020
25	I500 2525	679 2525	I610 025	I649 025	I649 NPT25	I649 B025	I649 FT025
32	I500 3232	679 3232	I610 032	I649 032	I649 NPT32	I649 B032	I649 FT032
40	I500 4040	679 4040	I610 040	I649 040	I649 NPT40	I649 B040	I649 FT040
50	I500 5050	679 5050	I610 050	I649 050	I649 NPT50	I649 B050	I649 FT050
65	I500 6565	679 6565	I610 065	I649 065	I649 NPT65	I649 B065	I649 FT065
80	I500 8080	679 8080	I610 080	I649 080	I649 NPT80	I649 B080	I649 FT080
100	I500 100100	679 0100	I610 100	I649 100		I649 B100	I649 FT100
			I610 150			I649 B150	
			I610 200	I649 150			
			I610 250				

90° Hose Tail x Male BSP

SIZE (inches)	STAINLESS STEEL BSP	SIZE	BRONZE
½	I692 1515		
¾	I692 2020	20 x 20	I592 2020
1	I692 2525	20 x 25	I592 2025
1¼	I692 3232	25 x 20	I592 2520
1½	I692 4040	25 x 25	I592 2525
2	I692 5050	25 x 32	I592 2532
		32 x 32	I592 3232
		32 x 40	I592 3240
		40 x 40	I592 4040
		40 x 50	I592 4050
		50 x 50	I592 5050
		65 x 65	I592 6565
		80 x 80	I592 8080
			I610 200
			I610 250



04.10 :: Hosetail



Reducing Hose Tails (Lump Ends)

SIZE (inches)	BRONZE	SIZE (inches)		POLY	SIZE (inches)	BRASS	SIZE (inches)	STAINLESS STEEL 316 BSP
1/8 x 1/4		3/8 x 1/2	500 1015	679 0608	3/16 x 1/8	590 0503	1/4 x 1/8	I649 0806
1/4 x 1/8		1/2 x 1/2	500 1515	679 0806	3/16 x 1/4	590 0506	1/4 x 5/16	I649 0809
1/4 x 5/16		1/2 x 5/8	500 1516	679 0809	1/4 x 1/8	590 0603	1/4 x 3/8	I649 0810
1/4 x 3/8		1/2 x 3/4	500 1520	679 0810	3/4 x 1/4	590 0606	1/4 x 1/2	I649 0615
1/2 x 3/4		1/2 x 1	500 1525	679 1520	1/4 x 3/8	590 0610	3/8 x 1/8	I646 1006
3/4 x 1/2		3/4 x 1/2	500 2015	679 2015	1/4 x 1/2	590 0615	3/8 x 1/4	I646 1008
3/4 x 1	I500 2025	3/4 x 5/8	500 2016		5/16 x 1/8	590 0803	3/8 x 5/16	I649 1009
1 x 1/2		3/4 x 3/4	500 2020	679 2515	5/16 x 1/4	590 0806	3/8 x 1/2	I649 1015
1 x 3/4	I500 2520	3/4 x 1	500 2025	679 2520	5/16 x 3/8	590 0810	1/2 x 5/16	I649 1509
1 x 1 1/4	I500 2532	1 x 3/8	500 2510	679 2532	5/16 x 1/2	590 0815	1/2 x 3/8	I648 1510
1 1/4 x 1	I500 3225	1 x 1/2	500 2515	679 3225	3/8 x 1/8	590 1003	1/2 x 5/8	I649 1516
1 1/4 x 1 1/2	I500 3240	1 x 5/8	500 2516		3/8 x 1/4	590 1006	1/2 x 3/4	I649 1220
1 1/2 x 1 1/4	I500 4032	1 x 3/4	500 2520		3/8 x 3/8	590 1010	1/2 x 1	I649 1525
1 1/2 x 2	I500 4050	1 x 1	500 2525		3/8 x 1/2	590 1015	3/4 x 3/8	I648 2010
2 x 1 1/2	I500 5040	1 x 1 1/4	500 2532		3/8 x 3/4	590 1020	3/4 x 1/2	I648 2015
2 x 2 1/2	I500 5065	1 x 1 1/2	500 2540		1/2 x 1/8	590 1503	3/4 x 5/8	I649 2016
2 1/2 x 3	I500 6580	1 1/4 x 3/4	500 3220		1/2 x 1/4	590 1506	3/4 x 1	I649 2025
		1 1/4 x 1	500 3225		1/2 x 3/8	590 1510	1 x 1/2	I649 2515
		1 1/4 x 1 1/4	500 3232		1/2 x 1/2	590 1515	1 x 3/4	I649 2520
		1 1/4 x 1 1/2	500 3240		1/2 x 3/4	590 1520	1 x 1 1/4	I649 2532
		1 1/4 x 2	500 3250		5/8 x 1/4	590 1606	1 1/4 x 1	I649 3225
		1 1/2 x 3/4	500 4020		5/8 x 3/8	590 1610	1 1/4 x 1 1/2	I649 3240
		1 1/2 x 1	500 4025		5/8 x 1/2	590 1615	1 1/2 x 1	I649 4025
		1 1/2 x 1 1/4	500 4032		5/8 x 3/4	590 1620	1 1/2 x 1 1/4	I649 4032
		1 1/2 x 1 1/2	500 4040		3/4 x 3/8	590 2010	2 x 1	I649 5025
		1 1/2 x 1 3/4	500 4044		3/4 x 1/2	590 2015	2 x 1 1/4	I649 5032
		1 1/2 x 2	500 4050		3/4 x 3/4	590 2020	2 x 1 1/2	I649 5040
		1 1/2 x 2 1/4	500 4057		3/4 x 1	590 2025	2 x 2 1/2	I649 5065
		1 1/2 x 2 1/2	500 4062		1 x 1/2	590 2515	2 1/2 x 2	I649 6550
		1 3/4 x 1 3/4	500 4444		1 x 3/4	590 2520	2 1/2 x 3	I649 6580
		2 x 1/2	500 5015		1 x 1	590 2525	3 x 2	I649 8050
		2 x 1	500 5025				3 x 2 1/2	I649 8065
		2 x 1 1/4	500 5032				3 x 4	I649 80100
		2 x 1 1/2	500 5040				4 x 3	I649 10080
		2 x 1 3/4	500 5044					
		2 x 2	500 5050					
		2 x 2 1/4	500 5057					
		2 x 2 1/2	500 5063					
		2 x 3	500 5080					
		2 1/4 x 2 1/4	500 5757					
		2 1/2 x 2	500 6550					
		2 1/2 x 2 1/2	500 6565					
		2 1/2 x 3	500 6575					
		3 x 3	500 7575					



Hose Joiner

SIZE (mm)	POLY	GAL STEEL	PLASTIC	STAINLESS STEEL
10				I593 010SS
15	680 0015	I609 015	660 0003	I593 015SS
20	680 0020	I606 020	660 0005	I593 020SS
25	680 0025	I609 025	660 0006	I593 025SS
32	680 0032	I609 032	660 0008	I593 032SS
40	680 0040	I609 040	660 0010	I593 040SS
50	680 0050	I609 050	660 0012	
65		I609 065	660 0016	
80		I609 080	660 0020	
100		I609 100	660 0025	

04.11 :: Adapters



Male Female Adaptors

SIZE (inches)	STAINLESS STEEL 316 BSP	SIZE (inches)	BRASS	SIZE (inches)	POLY
1/8 x 1/8	I638 FM0303	1/4 x 1/8	502 0603	1/2 x 1/2	669 0012
1/4 x 1/8	I638 FM0603	1/4 x 1/4	502 0606	3/4 x 3/4	669 0020
1/4 x 1/4	I638 FM0606	3/8 x 1/4	502 0610	1 x 1	669 0025
3/8 x 1/8	I638 FM1003	3/8 x 1/8	502 1003	3/8 x 1/2	669 1012
3/8 x 1/4	I638 FM1006	3/8 x 1/4	502 1006	3/4 x 1/2	669 2012
3/8 x 3/8	I638 FM1010	3/8 x 3/8	502 1010	1 x 1/2	669 2512
1/2 x 3/8	I638 FM1510	1/2 x 1/8	502 1503	1 x 3/4	669 2520
1/2 x 1/2	I638 FM1515	1/2 x 1/4	502 1506		
3/4 x 1/4	I638 FM2006	1/2 x 3/8	502 1510		
3/4 x 3/8	I638 FM2010	1/2 x 1/2	502 1515		
3/4 x 1/2	I638 FM2015	3/4 x 1/2	502 2012		
3/4 x 3/4	I638 FM2020	3/4 x 3/4	502 2020		
1 x 1/2	I638 FM2515	1 x 1/2	502 2515		
1 x 3/4	I638 FM2520	1 x 3/4	502 2520		
1 x 1	I638 FM2525	1 x 1	502 2525		
1 1/4 x 1/2	I638 FM3215	1 1/4 x 3/4	502 3220		
1 1/4 x 3/4	I638 FM3220	1 1/4 x 1	502 3225		
1 1/4 x 1	I638 FM3225	1 1/4 x 1 1/4	502 3232		
1 1/4 x 1 1/4	I638 FM3232	1 1/2 x 1	502 4025		
1 1/2 x 3/4	I638 FM4020	1 1/2 x 1 1/4	502 4032		
1 1/2 x 1	I638 FM4025	1 1/2 x 1 1/2	502 4040		
1 1/2 x 1 1/4	I638 FM4032	2 x 1 1/4	502 5032		
1 1/2 x 1 1/2	I638 FM4040	2 x 1 1/2	502 5040		
		2 x 2	502 5050		
		2 1/2 x 2	502 6550		
		3 x 2	502 8050		
		3 x 2 1/2	502 8065		

Bends

SIZE (mm)	FEMALE / FEMALE	MALE / FEMALE	
15	473 0015		
20	473 0020		
25	473 0025	478 025	
32	473 0032	478 032	
40	473 0040	478 040	
50	473 0050	478 050	
65		478 065	
80		478 080	
100		478 100	



Crosses

SIZE (mm)	GAL MAL	STAINLESS STEEL 316 BSP	BRASS
06		I638 006	512 C003
08		I638 008	512 C006
10	477 010	I638 010	512 C010
15	477 015	I638 015	
20	477 020	I638 020	
25	477 025	I638 025	
32	477 032	I638 032	
40	477 040	I638 040	
50	477 050	I638 050	
65	477 065	I638 065	
80	477 080	I638 080	
100	477 100	I638 100	



04.13 :: Y & Pipe Pieces



Y Pieces

SIZE (inches)	STAINLESS STEEL 316 BSP	BRASS	BRASS MALE Y
1/8	I638 Y006		
1/4	I638 Y008	512 Y006	512 M006
3/8	I638 Y010	512 Y010	512 MM010
1/2	I638 Y015	512 Y015	
3/4	I638 Y020		
1	I638 Y025		
1 1/4	I638 Y032		
1 1/2	I638 Y040		
2	I638 Y050		
2 1/2	I638 Y065		
3	I638 Y080		
4	I638 Y100		

Pipe Pieces

SIZE (inches)	GALVANISED STEEL	BRASS MALE Y
1/4		512 M006
3/8		512 MM010
1/2	486 15100	
3/4	486 20100	
1	486 25100	
1 1/4	486 32100	
1 1/2	486 40100	
2	486 50100	
2 1/2	486 65100	
3	486 80100	

05

HIGH PRESSURE FITTINGS

HIGH PRESSURE FITTINGS



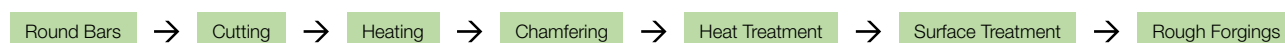
High Pressure Fittings 3000 LB

PRODUCTION RANGE AND SPECIFICATION

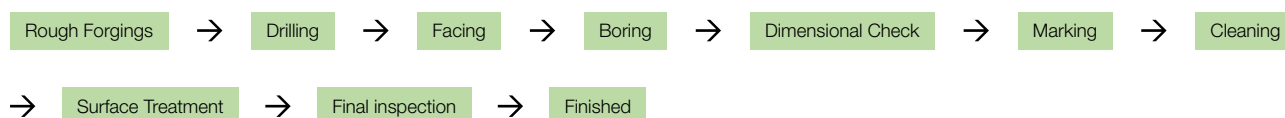
Type:	A. elbow, tee, coupling, half coupling, cap, plug, bushing, union, outlet, swage nipple, bull plug, reducer insert and hex. nipple, street elbows, boss, etc. B. Socket-weld, threaded (NPT, PT and BSP [ISO7-1, ISO228-1]), butt-welding.
Size:	NPS - 1/8" to 4". DN - 6 to 100
Rating:	Pressure: Threaded end - 2000 / 3000 / 6000 lbs. Socket-weld end - 3000 / 6000 / 9000 lbs. Butt weld end - SCH40 / SCH80 / SCH160 / XXS.
Specifications:	A. Dim. spec: ASME B16.11-2011 (Revision of ASME B16.11-2009) MSS SP - 79, 83, 95, 97 and BS3799. B. Material spec: ASTM A105, A350 LF2, A106, A312, A234, A403. ASTM A182 (F304, F304L, F316, F316L, F304H, F316H, F317L, F321, F11, F22, F91). C. Size of Raw Material: Diameter 19 to 120Mm round bar.
Marking:	A. Carbon and alloy steel: marked by stamping. B. Stainless steel: marked by jet printed or stamping. C. 3/8" Under: brand only. D. 1/2" to 4": marked with brand, material, heat code, B16 (for ASME B16.11 product), rating and size.
Finishing:	Carbon steel - galvanized or black. Low alloy steel - black. Stainless steel - pickled.
Packing:	Carton / wooden case Plywood case

PRODUCTION PROCESS CHART

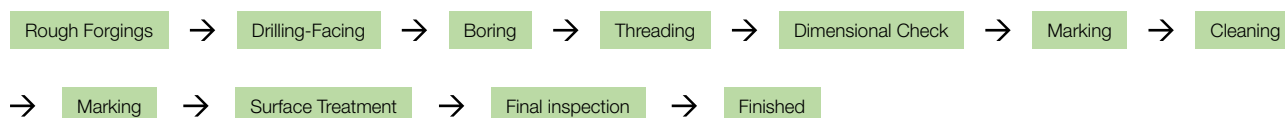
1. Forging



2. Machining - Socket Weld

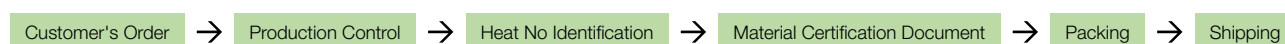


3. Machining - Threaded



*(Rust-Proof for Carbon
& Low Alloy Steel)*

4. Delivery



Reducing Bush 3000LB SCH80

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED
10 x 6	I375 XSB1008		I375 XSN1008	
15 x 6	I375 XSB1508		I375 XSN1508	
15 x 10	I375 XSB1510		I375 XSN1510	
20 x 15	I375 XSB2015	I375 XSG2015	I375 XSN2015	I375 XSNG2015
25 x 15	I375 XSB2515	I375 XSG2515	I375 XSN2515	I375 XSNG2515
25 x 20	I375 XSB2520	I375 XSG2520	I375 XSN2520	I375 XSNG2520
32 x 20	I375 XSB3220	I375 XSG3220	I375 XSN3220	I375 XSNG3220
32 x 25	I375 XSB3225	I375 XSG3225	I375 XSN3225	I375 XSNG3225
40 x 20	I375 XSB4020		I375 XSN4020	
40 x 25	I375 XSB4025	I375 XSG4025	I375 XSN4025	I375 XSNG4025
40 x 32	I375 XSB4032	I375 XSG4032	I375 XSN4032	I375 XSNG4032
50 x 25	I375 XSB5025	I375 XSG5025	I375 XSN5025	I375 XSNG5025
50 x 32	I375 XSB5032	I375 XSG5032	I375 XSN5032	I375 XSNG5032
50 x 40	I375 XSB5040	I375 XSG5040	I375 XSN5040	I375 XSNG5040
65 x 50	I375 XSB6550		I375 XSN6550	
80 x 50	I375 XSB8050		I375 XSN8050	
80 x 65	I375 XSB8065		I375 XSN8065	
100 x 65	I375 XSB10065			
100 x 80	I375 XSB10080		I375 XSN10080	



05 :: High Pressure Fittings 3000 LB



Reducing Hex Nipple

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED
10 x 6				
15 x 6				
20 x 15	I376 XSB2015	I376 XSG2015	I376 XSN2015	I376 XSNG2015
25 x 15	I376 XSB2515	I376 XSG2515	I376 XSN2515	I376 XSNG2515
25 x 20	I376 XSB2520	I376 XSG2520	I376 XSN2520	I376 XSNG2520
32 x 20	I376 XSB3220		I376 XSN3220	I376 XSNG3220
32 x 25	I376 XSB3225		I376 XSN3225	I376 XSNG3225
40 x 20	I376 XSB4020		I376 XSN4020	
40 x 25	I376 XSB4025	I376 XSG4025	I376 XSN4025	I376 XSNG4025
40 x 32	I376 XSB4032	I376 XSG5025	I376 XSN4032	I376 XSNG4032
50 x 25	I376 XSB5025	I376 XSG5032	I376 XSN5025	I376 XSNG5025
50 x 32	I376 XSB5032		I376 XSN5032	I376 XSNG5032
50 x 40	I376 XSB5040	I376 XSG5040	I376 XSN5040	I376 XSNG5040
65 x 50	I376 XSB6550			
80 x 50	I376 XSB8050			
80 x 65	I376 XSB8065			
100 x 50	I376 XSB 10050			
100 x 65	I376 XSB010065			
100 x 80	I376 XSB010080			



90° Female Elbow

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED	SOCKET WELD
15	I377 XSB15	I377 XSG15	I377 XSN15	I377 XSNG15	I377 SW15
20	I377 XSB20	I377 XSG20	I377 XSN20	I377 XSNG20	I377 SW20
25	I377 XSB25	I377 XSG25	I377 XSN25	I377 XSNG25	I377 SW25
32	I377 XSB32	I377 XSG32	I377 XSN32	I377 XSNG32	I377 SW32
40	I377 XSB40	I377 XSG40	I377 XSN40	I377 XSNG40	I377 SW40
50	I377 XSB50	I377 XSG50	I377 XSN50	I377 XSNG50	I377 SW50



45° Female Elbow

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED	SOCKET WELD
15	I377 45XSB15	I377 XSG4515	I377 45XSN15		I377 SW4515
20	I377 45XSB20	I377 XSG4520	I377 45XSN20		I377 SW4520
25	I377 45XSB25	I377 XSG4525	I377 45XSN25		I377 SW4525
32	I377 45XSB32	I377 XSG4532	I377 45XSN32		I377 SW4532
40	I377 45XSB40	I377 XSG4540	I377 45XSN40		I377 SW4540
50	I377 45XSB50	I377 XSG4550	I377 45XSN50		I377 SW4550

90° Male Elbow

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED	
15	I378 XSB15		I378 XSN15		
20	I378 XSB20		I378 XSN20		
25	I378 XSB25		I378 XSN25		
32	I378 XSB32		I378 XSN32		
40	I378 XSB40		I378 XSN40		
50	I378 XSB50		I378 XSN50		



Equal Female Tee

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED	SOCKET WELD
15	I379 XSB15	I379 XSG15	I379 XSN15	I379 XSNG15	I379 SW15
20	I379 XSB20	I379 XSG20	I379 XSN20	I379 XSNG20	I379 SW20
25	I379 XSB25	I379 XSG25	I379 XSN25	I379 XSNG25	I379 SW25
32	I379 XSB32	I379 XSG32	I379 XSN32	I379 XSNG32	I379 SW32
40	I379 XSB40	I379 XSG40	I379 XSN40	I379 XSNG40	I379 SW40
50	I379 XSB50	I379 XSG50	I379 XSN50	I379 XSNG50	I379 SW50



Coupling

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED	SOCKET WELD
08	I380 XSB08		I380 XSN08		
10	I380 XSB10		I380 XSN10		
15	I380 XSB15	I380 XSG15	I380 XSN15	I380 XSNG15	I380 XSW15
20	I380 XSB20	I380 XSG20	I380 XSN20	I380 XSNG20	I380 XSW20
25	I380 XSB25	I380 XSG25	I380 XSN25	I380 XSNG25	I380 XSW25
32	I380 XSB32	I380 XSG32	I380 XSN32	I380 XSNG32	I380 XSW32
40	I380 XSB40	I380 XSG40	I380 XSN40	I380 XSNG40	I380 XSW40
50	I380 XSB50	I380 XSG50	I380 XSN50	I380 XSNG50	I380 XSW50
65	I380 XSB65		I380 XSN65		
80	I380 XSB80		I380 XSN80		
100	I380 XSB100		I380 XSN100		



Half Coupling

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED	
08	I380 XSHB08		I380 XSHN08		
10	I380 XSHB10		I380 XSHN10		
15	I380 XSHB15		I380 XSHN15		
20	I380 XSHB20		I380 XSHN20		
25	I380 XSHB25		I380 XSHN25		
32	I380 XSHB32		I380 XSHN32		
40	I380 XSHB40		I380 XSHN40		
50	I380 XSHB50		I380 XSHN50		
65					
80					
100					



05 :: High Pressure Fittings 3000 LB



Swage Nipple Plain End

SIZE (mm)	SWAGE PLAIN END	SWAGE NIPPLE BSP THREADED BOTH ENDS	
20 x 15	I381 SN2015		
25 x 15	I381 SN2515		
25 x 20	I381 SN2520	I381 SNB2520	
32 x 20	I381 SN3220	I381 SNB3225	
32 x 25	I381 SN3225	I381 SNB4025	
40 x 15	I381 SN4015	I381 SNB4032	
40 x 20	I381 SN4020	I381 SNB5025	
40 x 25	I381 SN4025	I381 SNB5032	
40 x 32	I381 SN4032	I381 SNB5040	
50 x 25	I381 SN5025		
50 x 32	I381 SN5032		
50 x 40	I381 SN5040		
60 x 40	I381 SN6040		
65 x 50	I381 XSB6550		
80 x 50	I381 XSB8050		
80 x 65	I381 XSB8065		
100 x 50	I381 XSB 10050		
100 x 65	I381 XSB010065		
100 x 80	I381 XSB010080		



Hex Nipple

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED	
06			I381 XSN06		
08	I381 XSB08		I381 XSN08		
10	I381 XSB10		I381 XSN10		
15	I381 XSB15	I381 XSG15	I381 XSN15	I381 XSNG15	
20	I381 XSB20	I381 XSG20	I381 XSN20	I381 XSNG20	
25	I381 XSB25	I381 XSG25	I381 XSN25	I381 XSNG25	
32	I381 XSB32	I381 XSG32	I381 XSN32	I381 XSNG32	
40	I381 XSB40	I381 XSG40	I381 XSN40	I381 XSNG40	
50	I381 XSB50	I381 XSG50	I381 XSN50	I381 XSNG50	
65	I381 XSB65	I381 XSG65	I381 XSN65		
80	I381 XSB80	I381 XSG80	I381 XSN80		
100	I381 XSB100		I381 XSN100		

Cross Over Hex Nipple

SIZE (mm)	BSP / NPT BLACK	
06		
08	I381 XSBN08	
10	I381 XSBN10	
15	I381 XSBN15	
20	I381 XSBN20	
25	I381 XSBN25	
32	I381 XSBN32	
40	I381 XSBN40	
50	I381 XSBN50	
65	I381 XSBN65	
80	I381 XSBN80	
100	I381 XSBN100	



Pipe Nipples

SIZE (mm)	BSP CARBON STEEL	BSP GALVANISED STEEL	NPT BLACK
15 x 100	I381 XSPN15100	I381 G15100	I381 XSNPN15100
15 x 150	I381 XSPN15150	I381 G15150	I381 XSNPN15150
20 x 100	I381 XSPN20100	I381 G20100	I381 XSNPN20100
20 x 150	I381 XSPN20150	I381 G20150	I381 XSNPN20150
25 x 100	I381 XSPN25100	I381 G25100	I381 XSNPN25100
25 x 150	I381 XSPN25150	I381 G25150	I381 XSNPN25150
32 x 100	I381 XSPN32100	I381 G32100	I381 XSNPN32100
32 x 150	I381 XSPN32150	I381 G32150	I381 XSNPN32150
40 x 100	I381 XSPN40100	I381 G40100	I381 XSNPN40100
40 x 150	I381 XSPN40150	I381 G40150	I381 XSNPN40150
50 x 100	I381 XSPN50100	I381 G50100	I381 XSNPN50100
50 x 150	I381 XSPN50150	I381 G50150	I381 XSNPN50150



Hex Plug

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED	
08	I382 XSB08		I382 XSN08		
10	I382 XSB10		I382 XSN10		
15	I382 XSB15		I382 XSN15	I382 XSNG15	
20	I382 XSB20	I382 XSG20	I382 XSN20	I382 XSNG20	
25	I382 XSB25	I382 XSG25	I382 XSN25	I382 XSNG25	
32	I382 XSB32	I382 XSG32	I382 XSN32	I382 XSNG32	
40	I382 XSB40	I382 XSG40	I382 XSN40	I382 XSNG40	
50	I382 XSB50	I382 XSG50	I382 XSN50	I382 XSNG50	
65	I382 XSB65		I382 XSN65		
80	I382 XSB80		I382 XSN80		
100	I382 XSB100		I382 XSN100		
100	I381 XSB100		I381 XSN100		



05 :: High Pressure Fittings 3000 LB



Cap

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED
08				
10			I383 XSN10	
15	I383 XSB15	I383 XSG15	I383 XSN15	I382 XSNG15
20	I383 XSB20	I383 XSG20	I383 XSN20	I382 XSNG20
25	I383 XSB25	I383 XSG25	I383 XSN25	I382 XSNG25
32	I383 XSB32	I383 XSG32	I383 XSN32	I382 XSNG32
40	I383 XSB40	I383 XSG40	I383 XSN40	I382 XSNG40
50	I383 XSB50	I383 XSG50	I383 XSN50	I382 XSNG50
65				
80				
100				



Union

SIZE (mm)	BSP BLACK	BSP GALVANISED	NPT BLACK	NPT GALVANISED	SOCKET WELD
08					
10					
15	I385 XSB15	I385 XSG15	I385 XSN15	I385 XSNG15	I385 XSW15
20	I385 XSB20	I385 XSG20	I385 XSN20	I385 XSNG20	I385 XSW20
25	I385 XSB25	I385 XSG25	I385 XSN25	I385 XSNG25	I385 XSW25
32	I385 XSB32	I385 XSG32	I385 XSN32	I385 XSNG32	I385 XSW32
40	I385 XSB40	I385 XSG40	I385 XSN40	I385 XSNG40	I385 XSW40
50	I385 XSB50	I385 XSG50	I385 XSN50	I385 XSNG50	I385 XSW50
65					
80					
100					



Socket Weld Insert

SIZE (mm)	SOCKET WELD INSERT
20 x 15	I380 INS2015
25 x 15	I380 INS2515
25 x 20	I380 INS2520
32 x 15	I380 INS3215
32 x 20	I380 INS3220
32 x 25	I380 INS3225
40 x 20	I380 INS4020
40 x 25	I380 INS4025
40 x 32	I380 INS4032
50 x 25	I380 INS5025
50 x 32	I380 INS5032
50 x 40	I380 INS5040

Socket Weld Sockolet

SIZE (mm)	SOCKOLET	
15	I380 SOL15	
20	I380 SOL20	
25	I380 SOL25	
32	I380 SOL32	
40	I380 SOL40	
50	I380 SOL50	



BSP Threadolet

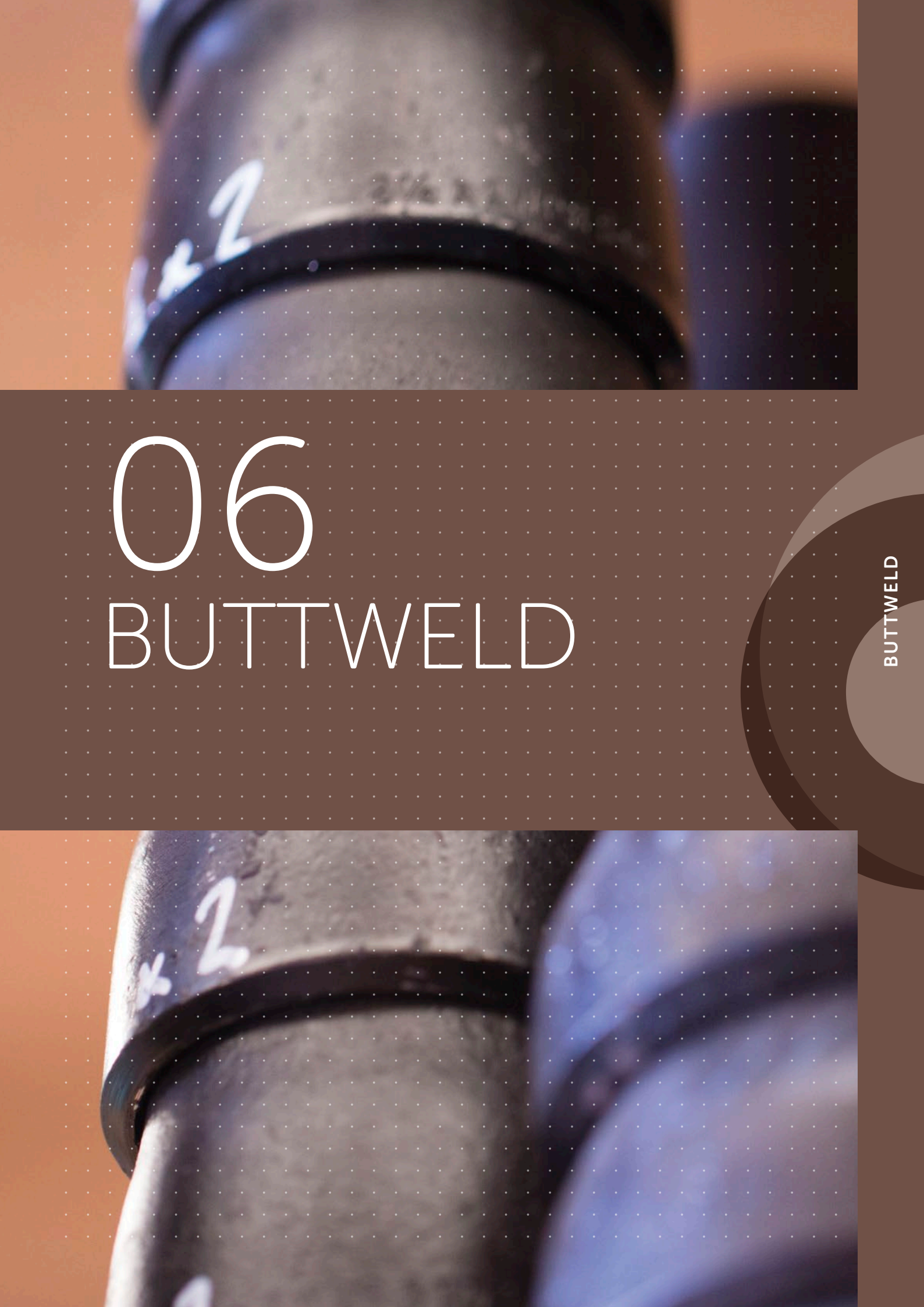
SIZE (mm)	BSP THREDOLET	NPT THREDOLET	
08		I380 THR008	
15	I380 THB15	I380 THR15	
20	I380 THB20	I380 THR20	
25	I380 THB25	I380 THR25	
32	I380 THB32	I380 THR32	
40	I380 THB40	I380 THR40	
50	I380 THB50	I380 THR50	



Weldolet

SIZE (mm)	WELDOLET	
15	I380 WL15	
20	I380 WL20	
25	I380 WL25	
32	I380 WL32	
40	I380 WL40	
50	I380 WL50	



The background of the page is a close-up photograph of a metal pipe. A dark, circular weld joint is visible in the center. On the pipe, there are handwritten markings in white paint, including the number '2' and some less legible characters. The lighting is warm, creating a brownish-orange hue. The entire image is overlaid with a fine grid of small white dots.

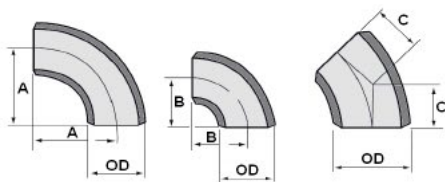
06

BUTTWELD

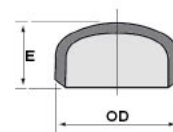
BUTTWELD

Buttweld

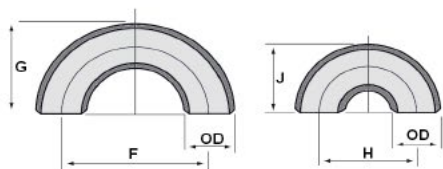
SPECIFICATIONS



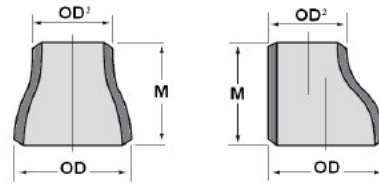
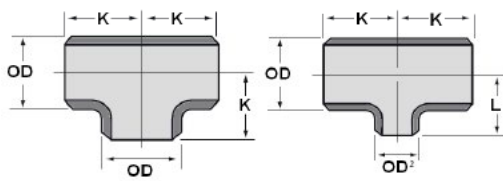
NOMINAL PIPE SIZE DN	OUTSIDE DIAMETER AT BEVEL OD	LONG RADIUS ELBOW		SHORT RADIUS ELBOW
		90° A	45° C	90° B
15	21.3	38.1	15.7	—
20	26.7	28.4	11.2	—
25	33.5	38.1	22.4	25.4
32	42.2	47.8	25.4	31.8
40	48.3	57.2	28.4	38.1
50	60.5	76.2	35.1	50.8
65	73.2	95.2	44.4	63.5
80	88.9	114.3	50.8	76.2
100	114.3	152.4	63.5	101.6
125	141.2	190.5	79.2	127
150	168.1	228.6	95.2	152.4
200	218.9	304.8	127	203.2
250	273	381	158.8	254
300	323.8	457.2	190.5	304.8
350	355.6	533.4	222.2	355.6
400	406.4	609.6	254	406.4
450	457.2	685.8	285.8	457.2
500	508	762	317.5	508
600	609.6	914.4	381	609.6



NOMINAL PIPE SIZE DN	CAPS STD WT & EX. STG E
15	25.4
20	25.4
25	38.1
32	38.1
40	38.1
50	38.1
65	38.1
80	50.8
100	63.5
125	76.2
150	88.9
200	102
250	127
300	152
350	165
400	178
450	203
500	229
600	267



NOMINAL PIPE SIZE mm	OUTSIDE DIAMETER AT BEVEL OD	LONG RADIUS ELBOW		SHORT RADIUS ELBOW	
		CENTRE TO CENTRE F	BACK TO FACE G	CENTRE TO CENTRE H	BACK TO FACE J
15	21.3	76.2	47.8	—	—
20	26.7	57.2	42.9	—	—
25	33.5	76.2	55.6	50.8	41.1
32	42.2	95.2	69.8	63.5	52.3
40	48.3	114.3	82.6	76.2	62
50	60.5	152.4	106.4	101.6	81
65	73.2	190.5	131.8	127	100.1
80	88.9	228.6	158.8	152.4	120.7
100	114.3	304.8	209.6	203.2	158.8
125	141.2	381	261.9	254	196.9
150	168.1	457.2	312.7	304.8	236.5
200	218.9	609.6	414.3	406.4	312.7
250	273	762	517.7	508	390.7
300	323.8	914.4	619.3	609.6	466.9
350	355.6	1066.8	711.2	711.2	533.4
400	406.4	1219.2	812.8	812.8	609.6
450	457.2	1371.6	914.4	914.4	685.8
500	508	1524	1016	1016	762
600	609.6	1828.8	1219.2	1219.2	914.4



NOMINAL SIZE DN		TEES		CONC & ECC REDUCERS M
LARGE END 1	LARGE END 2	EQUAL K	RED L	
20	20	28.6	—	—
	15	28.6	28.6	38.1
25	25	38.1	—	—
	20	38.1	38.1	50.8
	15	38.1	38.1	50.8
32	32	47.6	—	—
	25	47.6	47.6	50.8
	20	47.6	47.6	50.8
	15	47.6	47.6	50.8
40	40	57.2	—	—
	32	57.2	57.2	63.5
	25	57.2	57.2	63.5
	20	57.2	57.2	63.5
	15	57.2	57.2	63.5
50	50	63.5	—	—
	40	63.5	60.3	76.2
	32	63.5	57.2	76.2
	25	63.5	50.8	76.2
	20	63.5	44.5	76.2
65	65	76.2	—	—
	50	76.2	69.9	88.9
	40	76.2	66.7	88.9
	32	76.2	63.5	88.9
	25	76.2	57.2	88.9
80	80	85.7	—	—
	65	85.7	82.6	88.9
	50	85.7	76.2	88.9
	40	85.7	73	88.9
	32	85.7	69.9	88.9
100	25	85.7	66.9	88.9
	100	105	102	—
	90	105	98.4	102
	80	105	95.3	102
	65	105	88.9	102
	50	105	85.7	102
	40	105	—	102
125	125	124	117	—
	100	124	114	127
	90	124	111	127
	80	124	108	127
	65	124	105	127
150	50	124	—	127
	150	143	137	—
	125	143	130	140
	100	143	127	140
	90	143	124	140
	80	143	121	140
200	65	143	—	140
	200	178	168	—
	150	178	162	152
	125	178	155	152
	100	178	152	152
	80	178	—	152

NOMINAL SIZE DN		TEES		CONC & ECC REDUCERS M
LARGE END 1	LARGE END 2	EQUAL K	RED L	
250	250	216	203	—
	200	216	194	178
	150	216	191	178
	125	216	184	178
	100	216	—	178
300	300	254	241	—
	250	254	229	203
	200	254	219	203
	150	254	210	203
	100	254	—	203
350	350	279	270	—
	300	279	257	330
	250	279	248	330
	200	279	238	330
	150	279	330	—
400	400	305	—	—
	350	305	305	356
	300	305	295	356
	250	305	283	356
	200	305	273	356
450	150	305	264	356
	450	343	—	—
	400	343	330	381
	350	343	330	381
	300	343	321	381
500	250	343	308	381
	200	343	298	381
	500	381	—	—
	450	381	368	508
	400	381	356	508
600	350	381	356	508
	300	381	346	508
	250	381	333	508
	200	381	324	508
	600	432	—	—
750	500	432	432	508
	450	432	419	508
	400	432	406	508
	350	432	406	508
	300	432	397	508
900	250	432	384	508
	750	559	—	—
	600	559	533	610
	500	559	508	610
	450	559	495	610
	400	559	483	610
	900	673	—	—
	750	673	635	610
	600	673	610	610
	500	673	584	610
	450	673	572	610

06.1 :: Reducers



Ecentric Reducers

SIZE (mm)	STANDARD WEIGHT	EXTRA STRONG	
40 x 25	I368 4025		
50 x 25	I368 5025	I368 XS5025	
50 x 40	I368 5040	I368 XS6550	
65 x 50	I368 6550	I368 XS8050	
80 x 50	I368 8050	I368 XS8065	
80 x 65	I368 8065	I368 XS10050	
100 x 50	I368 10050	I368 XS10065	
100 x 65	I368 10065	I368 XS10080	
100 x 80	I368 10080	I368 XS150100	
125 x 100	I368 125100	I368 XS200150	
150 x 100	I368 150100		
150 x 125	I368 150125		
200 x 150	I368 200150		

Concentric Reducers

SIZE (mm)	STANDARD WEIGHT	EXTRA STRONG	STAINLESS STEEL SCH10	STAINLESS STEEL SCH 40
20 x 15	I369 2015		I603 2015	I603 S402015
25 x 15	I369 2515	I369 XS2515		
25 x 20	I369 2520	I369 XS2520	I603 2520	I603 S402520
32 x 15	I369 3215	I369 XS3215		
32 x 20	I369 3220	I369 XS3225		
32 x 25	I369 3225	I369 XS3225	I603 3225	I603 S403225
40 x 15	I369 4015			
40 x 20	I369 4020		I603 4020	I603 S404020
40 x 25	I369 4025	I369 XS4025	I603 4025	I603 S404025
40 x 32	I369 4032	I369 XS4032	I603 4032	I603 S404032
50 x 20	I369 5020	I369 XS5025		
50 x 25	I369 5025	I369 XS5032	I603 5025	I603 S405025
50 x 32	I369 5032	I369 XS5040		
50 x 40	I369 5040	I369 XS6540	I603 5040	I603 S405040
65 x 32	I369 6532	I369 XS6550		
65 x 40	I369 6540	I369 XS8040		
65 x 50	I369 6550	I369 XS8050	I603 6550	I603 S406550
80 x 40	I369 8040	I369 XS8065		
80 x 50	I369 8050		I603 8050	I603 S408050
80 x 65	I369 8065		I603 8065	I603 S408065
100 x 50	I369 10050	I369 XS10050		
100 x 65	I369 10065	I369 XS10065		
100 x 80	I369 10080	I369 XS10080		
125 x 65	I369 12565			
125 x 80	I369 12580			
125 x 100	I369 125100			
150 x 65	I369 15065			
150 x 80	I369 15080	I369 XS15080		
150 x 100	I369 150100			
150 x 125	I369 150125			
200 x 50	I369 200050			
200 x 80	I369 200080			
200 x 100	I369 200100	I369 XS200100		
200 x 125	I369 200125			
200 x 150	I369 200150	I369 XS200150		
250 x 100	I369 250100	I369 XS250200		
250 x 150	I369 250150			
250 x 200	I369 250200			
350 x 250	I369 350250	I369 XS350250		
350 x 300	I369 350300	I369 XS350300		
400 x 200	I369 400200			
400 x 250	I369 400250	I369 XS400250		
400 x 300	I369 400300	I369 XS400300		
400 x 350	I369 400350			



06.2 :: Elbows & Tees



Long Radius Elbows

SIZE (mm)	45 CARBON STEEL STANDARD WEIGHT	45 CARBON STEEL EXTRA STRONG WEIGHT	90 CARBON STEEL STANDARD WEIGHT	90 CARBON STEEL EXTRA STRONG WEIGHT	90 STAINLESS STEEL SEAMLESS SCH10	90 STAINLESS STEEL SCH 40	45 STAINLESS STEEL SCH 10	45 STAINLESS STEEL SCH 40
15	I370 015	I370 XS015	I371 0015	I371 XS0015	I605 015	I605 S4015	I605 4515	I605 S4515
20	I370 020	I370 XS020	I371 0020	I371 XS0020	I605 020	I605 S4020	I605 4520	I605 S4520
25	I370 025	I370 XS025	I371 0025	I371 XS0025	I605 025	I605 S4025	I605 4525	I605 S44525
32	I370 032	I370 XS032	I371 0032	I371 XS0032	I605 032	I605 S4032	I605 4532	I605 S44532
40	I370 040	I370 XS040	I371 0040	I371 XS0040	I605 040	I605 S4040	I605 4540	I605 S44540
50	I370 050	I370 XS050	I371 0050	I371 XS0050	I605 050	I605 S4050	I605 4550	I605 S44550
65	I370 065	I370 XS065	I371 0065	I371 XS0065	I605 065	I605 S4065	I605 4565	I605 S44565
80	I370 080	I370 XS080	I371 0080	I371 XS0080	I605 080	I605 S4080	I605 4580	I605 S44580
100	I370 100	I370 XS100	I371 0100	I371 XS0100	I605 100	I605 S40100	I605 S45100	I605 S445100
125	I370 125	I370 XS125	I371 0125	I371 XS0125	I605 125			
150	I370 150	I370 XS150	I371 0150	I371 XS0150	I605 150			
200	I370 200	I370 XS200	I371 0200	I371 XS0200	I605 200			
250	I370 250		I371 0250	I371 XS0250				
300	I370 300		I371 0300	I371 XS0300				
350			I371 0350	I371 XS0350				
400			I371 0400					

Short Radius 90° Elbows

SIZE (mm)	STANDARD WEIGHT	EXTRA STRONG	STAINLESS STEEL SCH10	STAINLESS STEEL SCH 40
15	I372 SR0015	I372 SRXS0015		
20	I372 SR0020	I372 SRXS0020		
25	I372 SR0025	I372 SRXS0025	I605 SR025	I605 S4SR25
32	I372 SR0032	I372 SRXS0032	I605 SR032	I605 S4SR32
40	I372 SR0040	I372 SRXS0040	I605 SR040	I605 S4SR40
50	I372 SR0050	I372 SRXS0050	I605 SR050	I605 S4SR50
65	I372 SR0065	I372 SRXS0065	I605 SR065	I605 S4SR65
80	I372 SR0080	I372 SRXS0080	I605 SR080	I605 S4SR80
100	I372 SR0100	I372 SRXS0100	I605 SR100	I605 S4SR100
125	I372 SR0125	I372 SRXS0125	I605 SR125	I605 S4SR125
150	I372 SR0150	I372 SRXS0150	I605 SR150	I605 S4SR150
200	I372 SR0200	I372 SRXS0200	I605 SR200	I605 S4SR200
250	I372 SR0250	I372 SRXS0250		
300	I372 SR0300			
350				
400				



Equal Tees

SIZE (mm)	STANDARD WEIGHT	EXTRA STRONG	STAINLESS STEEL SCH10	STAINLESS STEEL SCH 40
15	I373 0015	I373 XS015	I606 015	
20	I373 0020	I373 XS020	I606 020	
25	I373 0025	I373 XS025	I606 025	I606 S4025
32	I373 0032	I373 XS032	I606 032	I606 S4032
40	I373 0040	I373 XS040	I606 040	I606 S4040
50	I373 0050	I373 XS050	I606 050	I606 S4050
65	I373 0065	I373 XS065	I606 065	I606 S4065
80	I373 0080	I373 XS080	I606 080	I606 S4080
100	I373 0100	I373 XS100	I606 100	I606 S40100
125	I373 0125	I373 XS125		
150	I373 0150	I373 XS150	I606 150	
200	I373 0200	I373 XS200		
250	I373 0250			
300	I373 0300			
350	I373 0350			
400	I373 0400			



06.2 :: Elbows & Tees



Reducing Tees

SIZE (mm)	STANDARD WEIGHT	EXTRA STRONG	
20 x 15			
25 x 15			
25 x 20			
32 x 15			
32 x 20			
32 x 25			
40 x 15			
40 x 20			
40 x 25	I373 4025	I373 XS4025	
40 x 32			
50 x 20			
50 x 25	I373 5025	I373 XS5025	
50 x 32	I373 5032		
50 x 40	I373 5040	I373 XS5040	
65 x 32			
65 x 40	I373 6540		
65 x 50	I373 6550		
80 x 40	I373 8040		
80 x 50	I373 8050	I373 XS8050	
80 x 65	I373 8065		
100 x 40	I373 10040		
100 x 50	I373 10050		
100 x 65	I373 10065		
100 x 80		I373 XS10080	
125 x 80	I373 10080		
125 x 80	I373 12580		
125 x 100	I373 125100		
150 x 65			
150 x 80	I373 15080		
150 x 100	I373 150100	I373 XS150100	
150 x 125	I373 1500125		
200 x 50			
200 x 80			
200 x 100	I373 200100		
200 x 125	I373 200125		
200 x 150	I373 200150	I373 XS200150	
250 x 100			
250 x 125	I373 250125		
250 x 150	I373 250150		
350 x 250	I373 250200		
300 x 150	I373 300150		
300 x 200	I373 300200		
300 x 250	I373 300250		
400 x 300			
400 x 350			

Caps

SIZE (mm)	STANDARD WEIGHT	EXTRA STRONG	STAINLESS STEEL SCH10	STAINLESS STEEL SCH 40
15				
20				
25	I374 0025	I374 XS025		
32	I374 0032	I374 XS040		
40	I374 0040	I374 XS050		
50	I374 0050	I374 XS065		
65	I374 0065	I374 XS080		
80	I374 0080	I374 XS100		
100	I374 0100			
125	I374 0125			
150	I374 0150			
200	I374 0200			
250	I374 0250			

**Hosetails Stainless Steel 316 Buttweld**

SIZE (mm)	HOSETAIL
32	I649 B032
40	I649 B040
50	I649 B050
65	I649 B065
80	I649 B080
100	I649 B100
150	I649 B150
80	I649 0080
100	I649 0100
125	I649 0125
150	I649 0150



Notes

A large grid of dots for taking notes, consisting of 20 columns and 30 rows of small, light gray dots.

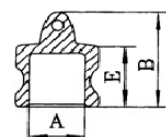
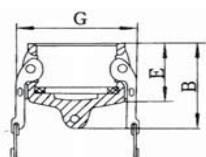
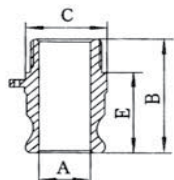
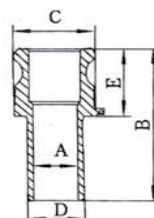
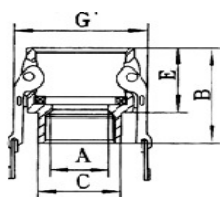
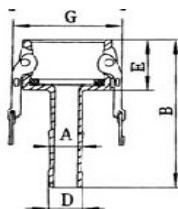
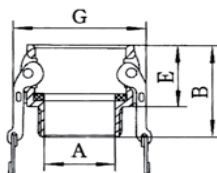
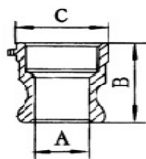
07 CAMLOCKS

CAMLOCKS



Camlocks

SPECIFICATIONS



Type A Camlock - Male Camlock / Female BSP

DIMENSIONS IN MILLIMETRES	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
A	21	21	24	28.5	36	45	56.5	73	98
B	38	38	48	56	60	64	87	73	78
C	32	32	40	48	56	67	83	96	127

Type B Camlock - Female Camlock / Male BSP

DIMENSIONS IN MILLIMETRES	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
A	14	14	24	28	35	51	58	72	98
B	52	52	64	72	73	80	90	94	101
E	32	32	40	48	49	54	59	60	62
G	53	53	60	78	85	96	110	127	156

Type C Camlock - Female Camlock / Male Hosebarb

DIMENSIONS IN MILLIMETRES	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
A	14	14	20	25	31	43	55	67	92
B	92	92	105	118	121	138	155	164	175
D	20	20	26	33	39	52	65	77	103
E	32	32	40	48	49	54	59	60	62
G	53	53	60	78	85	96	110	127	156

Type D Camlock - Female Camlock / Female BSP

DIMENSIONS IN MILLIMETRES	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
A	16	19	26	30	39	50	58	72	98
B	52	52	62	68	71	78	85	91	96
C	32	32	40	48	56	67	83	96	127
E	32	32	40	48	49	54	59	60	62
G	53	53	60	78	85	96	110	127	156

Type E Camlock - Male Camlock / Male Hosebarb

DIMENSIONS IN MILLIMETRES	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
A	14	19	24	28	35	48	58	72	98
B	98	98	110	121	125	140	158	170	182
D	20	20	26	33	39	52	65	77	103
E	40	40	46	53	56	61	65	66	70
C	34	34	38	48	56	66	80	102	132

Type F Camlock - Male Camlock / Male BSP

DIMENSIONS IN MILLIMETRES	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
A	21	21	24	28.5	36	45	56.5	73	98
B	56	56	72	80	84	88	100	106	114
C	32	32	40	48	56	67	83	96	127
E	39	39	48	56	61	62	69	74	79

Type DC Camlock - Dust Cap

DIMENSIONS IN MILLIMETRES	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
B	45	45	54	65	69	80	84	85	94
E	32	32	40	48	49	54	59	60	62
G	53	53	60	78	85	96	110	127	156

Type DP Camlock - Dust Plug

DIMENSIONS IN MILLIMETRES	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
A	21	21	24	29	36	45	57	73	98
B	37	37	44	55	64	68	70	80	80
E	24	24	30	38	41	43	45	52	48

Camlock A

SIZE (mm)	STAINLESS STEEL	ALUMINIUM	POLY	BRONZE
15	SS A1015			
20	SS A1020	AL A1020	PP A1020	
25	SS A1025	AL A1025	PP A1025	BR A1025
32	SS A1032	AL A1032	PP A1032	BR A1032
40	SS A1040	AL A1040	PP A1038	BR A1040
50	SS A1050	AL A1050	PP A1050	BR A1050
65	SS A1065	AL A1065		BR A1065
80	SS A1080	AL A1080	PP A1075	BR A1080
100	SS A1100	AL A1100	PP A1100	BR A1100
125				
150	SS A1150	AL A1150		
200		AL A1200		

**Camlock B**

SIZE (mm)	STAINLESS STEEL	ALUMINIUM	POLY	BRONZE
15	SS B3015			
20	SS B3020	AL B3020	PP B3020	
25	SS B3025	AL B3025	PP B3025	BR B3025
32	SS B3032	AL B3032	PP B3032	BR B3032
40	SS B3040	AL B3040	PP B3038	BR B3040
50	SS B3050	AL B3050	PP B3050	BR B3050
65	SS B3065	AL B3065		BR B3065
80	SS B3080	AL B3080	PP B3075	BR B3080
100	SS B3100	AL B3100	PP B3100	BR B3100
125				
150	SS B3150	AL B3150		
200		AL B3200		

**Camlock C**

SIZE (mm)	STAINLESS STEEL	ALUMINIUM	POLY	BRONZE
15	SS C9015			
20	SS C9020	AL C9020	PP C9020	
25	SS C9025	AL C9025	PP C9025	BR C9025
32	SS C9032	AL C9032	PP C9032	BR C9032
40	SS C9040	AL C9040	PP C9038	BR C9040
50	SS C9050	AL C9050	PP C9050	BR C9050
65	SS C9065	AL C9065		BR C9065
80	SS C9080	AL C9080	PP C9075	BR C9080
100	SS C9100	AL C9100	PP C9100	BR C9100
125	SS C9125			
150	SS C9150	AL C9150		
200		AL C9200		



07 :: Camlocks



Camlock D

SIZE (mm)	STAINLESS STEEL	ALUMINIUM	POLY	BRONZE
15	SS D2015			
20	SS D2020	AL D2020	PP D2020	
25	SS D2025	AL D2025	PP D2025	BR D2020
32	SS D2032	AL D2032	PP D2032	BR D2025
40	SS D2040	AL D2040	PP D2038	BR D2032
50	SS D2050	AL D2050	PP D2050	BR D2040
65	SS D2065	AL D2065		BR D2050
80	SS D2080	AL D2080	PP D2075	BR D2065
100	SS D2100	AL D2100	PP D2100	BR D2080
125				BR D2100
150	SS D2150	AL D2150		
200		AL D2200		



Camlock E

SIZE (mm)	STAINLESS STEEL	ALUMINIUM	POLY	BRONZE
15	SS E2015			
20	SS E2020	AL E2020	PP E2020	
25	SS E2025	AL E2025	PP E2025	BR E2025
32	SS E2032	AL E2032	PP E2032	BR E2032
40	SS E2040	AL E2040	PP E2038	BR E2040
50	SS E2050	AL E2050	PP E2050	BR E2050
65	SS E2065	AL E2065		BR E2065
80	SS E2080	AL E2080	PP E2075	BR E2080
100	SS E2100	AL E2100	PP E2100	BR E2100
125	SS E2125			
150	SS E2150	AL E2150		
200		AL E2200		



Camlock F

SIZE (mm)	STAINLESS STEEL	ALUMINIUM	POLY	BRONZE
15	SS F1015			
20	SS F1020	AL F1020	PP F1020	
25	SS F1025	AL F1025	PP F1025	BR F1025
32	SS F1032	AL F1032	PP F1032	BR F1032
40	SS F1040	AL F1040	PP F1038	BR F1040
50	SS F1050	AL F1050	PP F1050	BR F1050
65	SS F1065	AL F1065		BR F1065
80	SS F1080	AL F1080	PP F1075	BR F1080
100	SS F1100	AL F1100	PP F1100	BR F1100
125				
150	SS F1150	AL F1150		
200		AL F1200		

Camlock DC

SIZE (mm)	STAINLESS STEEL	ALUMINIUM	POLY	BRONZE
15	SS DC015			
20	SS DC020	AL DC020	PP DC020	
25	SS DC025	AL DC025	PP DC025	BR DC025
32	SS DC032	AL DC032	PP DC032	BR DC032
40	SS DC040	AL DC040	PP DC038	BR DC040
50	SS DC050	AL DC050	PP DC050	BR DC050
65	SS DC065	AL DC065		BR DC065
80	SS DC080	AL DC080	PP DC075	BR DC080
100	SS DC100	AL DC100	PP DC100	BR DC100
125				
150	SS DC150	AL DC150		
200				

**Camlock DP**

SIZE (mm)	STAINLESS STEEL	ALUMINIUM	POLY	BRONZE
15	SS DP015			
20	SS DP020	AL DP020	PP DP020	
25	SS DP025	AL DP025	PP DP025	BR DP025
32	SS DP032	AL DP032	PP DP032	BR DP032
40	SS DP040	AL DP040	PP DP038	BR DP040
50	SS DP050	AL DP050	PP DP050	BR DP050
65	SS DP065	AL DP065		BR DP065
80	SS DP080	AL DP080	PP DP075	BR DP080
100	SS DP100	AL DP100	PP DP100	BR DP100
125				
150	SS DP150	AL DP150		
200				

**Lockable Camlock**

SIZE (mm)	STAINLESS STEEL B	STAINLESS STEEL C	STAINLESS STEEL D	STAINLESS STEEL DC
15				
20				
25				
32				
40	SS BSL040		SS DSL040	SS DCL040
50		SS CSL050	SS DSL050	SS DCL050
65				
80		SS CSL080	SS DSL080	SS DCL80



OzLinc also stock Aluminium Dust Locking Caps and Bronze NPT Camlocks, please call for sizes and ordering.

07 :: Camlocks



Flanged Camlock

SIZE (mm)	FLANGED ALUMINIUM A	FLANGED ALUMINIUM C	
50	AL FA050	AL FC050	
80	AL FA080	AL FC080	
100	AL FA100	AL FC100	
150	AL FA150	AL FC150	



Bent Camlock

CODE	DESCRIPTION
AL BC050	50mm AL-BENT CAMLOCK 68°
AL BC065	65NB AL-BENT CAMLOCK 68°
AL BC080	80mm AL-BENT CAMLOCK 68°
AL BC100	100mm AL-BENT CAMLOCK 68°
AL BC9050	50NB FEM CAMLOCK x 90° TAIL
AL BC9080	80NB FEM CAMLOCK x 90° TAIL



Camlock Adapters

CODE	DESCRIPTION
AL AA025	25mm ALUM. AA CAMLOCK ADAPTOR
AL AA032	32mm ALUM. AA CAMLOCK ADAPTOR
AL AA040	40mm ALUM. AA CAMLOCK ADAPTOR
AL AA050	50mm ALUM. AA CAMLOCK ADAPTOR
AL AA065	65NB AA CAMLOCK ADAPTOR
AL BC9080	80NB FEM CAMLOCK x 90° TAIL



Washers

SIZE (mm)	BUNA	VITON	TEFLON
13+20	650 WB020	650 WV020	650 WT020
25	650 WB025	650 WV025	650 WT025
32	650 WB032	650 WV032	650 WT032
40	650 WB040	650 WV040	650 WT040
50	650 WB050	650 WV050	650 WT050
65	650 WB065	650 WV065	650 WT065
80	650 WB080	650 WV080	650 WT080
100	650 WB100	650 WV100	650 WT100
125	650 WB125	650 WV125	650 WT125
150	650 WB150	650 WV150	650 WT150
200	650 WB200	650 WV200	650 WT200

08

AIRLINE FITTINGS

AIRLINE FITTINGS



Nitto Quick Release Couplers

CODE	TYPE		DESCRIPTION
I539 001	20 SM	1/4"	MALE BSP
I539 002	30 SM	3/8"	MALE BSP
I539 003	40 SM	1/2"	MALE BSP
I539 004	20 SF	1/4"	FEMALE BSP
I539 005	30 SF	3/8"	FEMALE BSP
I539 006	40 SF	1/2"	FEMALE BSP
I539 007	20 SH	1/4"	HOSETAIL
I539 008	30 SH	3/8"	HOSETAIL
I539 009	40 SH	1/2"	HOSETAIL



Adaptors

CODE	TYPE		DESCRIPTION
I539 010	20 PM	1/4"	MALE BSP
I539 011	30 PM	3/8"	MALE BSP
I539 012	40 PM	1/2"	MALE BSP
I539 013	20 PF	1/4"	FEMALE BSP
I539 014	30 PF	3/8"	FEMALE BSP
I539 015	40 PF	1/2"	FEMALE BSP
I539 016	20 PH	1/4"	HOSETAIL
I539 017	30 PH	3/8"	HOSETAIL
I539 018	40 PH	1/2"	HOSETAIL



08 :: Airline Fittings



Jamec Quick Release 310 & 320 Couplers

CODE	TYPE	DESCRIPTION
597 3206	320 M4	3/4" BSP MALE
597 3210	320 M6	3/8" BSP MALE
597 3212	320 M8	1/2" BSP MALE
597 3216	320 F4	1/4" BSP FEMALE
597 3220	320 F6	3/8" BSP FEMALE
597 3222	320 F8	1/2" BSP FEMALE
597 3106	310T4	1/4" HOSE
597 3108	310T5	5/16" HOSE
597 3110	310T6	3/8" HOSE
597 3112	310Th	1/2" HOSE

Adaptors

CODE	TYPE	DESCRIPTION
597 3303	31 M2	1/8" BSP MALE
597 3304	31 M2S	1/8" BSP MALE (STEEL)
597 3306	31 M4	1/4" BSP MALE
597 3308	31 M4S	1/4" BSP MALE (STEEL)
597 3310	31 M6	3/8" BSP MALE
597 3311	31 M6S	3/8" BSP MALE (STEEL)
597 3313	31 F2	1/8" BSP FEMALE
597 3316	31 F4	1/4" BSP FEMALE
597 3320	31 F6	3/8" BSP FEMALE
597 3335	31 1'3	3/16" HOSE TAIL
597 3336	31 T4	1/4" HOSE TAIL
597 3338	31 TS	5/16" HOSE TAIL
597 3340	31 T6	3/8" HOSE TAIL
597 3342	31 T8	1/2" HOSE TAIL

330 Series Couplings

CODE	TYPE	DESCRIPTION
598 3306	330 M4	¼" BSP MALE
598 3310	330 M6	⅜" BSP MALE
598 3312	330 M8	½" BSP MALE
598 3316	330 F4	¼" BSP FEMALE
598 3320	330 F6	⅜" BSP FEMALE
598 3322	330 F8	½" BSP FEMALE

Adaptors

CODE	TYPE	DESCRIPTION
598 3326	33 M4	¼" BSP MALE
598 3330	33 M6	⅜" BSP MALE
598 3332	33 M8	½" BSP MALE
598 3336	33 F4	¼" BSP FEMALE
598 3340	33 F6	⅜" BSP FEMALE
598 3342	33 F8	½" BSP FEMALE

Ryco Quick Release Couplers (200 Series)

CODE	TYPE	DESCRIPTION
515 200	518 290	¼" FEMALE BSPP
515 243	518 292	⅜" FEMALE BSPP
518 294		½" FEMALE BSPP
515 201	519 291	¼" MALE BSPT
515 244	519 293	⅜" MALE BSPT
519 295		½" MALE BSPT
515 239	520 296	¼" HOSETAIL
515 240	520 297	⅜" HOSETAIL
515 241	520 298	½" HOSETAIL
515 242	520 299	¾" HOSETAIL



08 :: Airline Fittings



Black Nylon Tube

SIZE (inches)	CODE	SIZE (mm)	CODE
1/8	ID01 003	4	ID03 004
3/16	ID01 005	6	ID03 006
1/4	ID01 006	8	ID03 008
5/16	ID01 008	10	ID03 010
3/8	ID01 010	12	ID03 012
1/2	ID01 012		

Natural Nylon Tube

SIZE (inches)	CODE	SIZE (mm)	CODE
		4	ID04 004
		6	ID04 006
1/4	ID02 006	8	ID04 008
5/16	ID02 008	10	ID04 010
1/2	ID02 012	12	ID04 012
		16	ID04 016

Semi Rigid Tube

SIZE (inches)	CODE	SIZE (mm)	CODE
1/8	D07 003	4mm	D07 004
3/16	D07 005		
1/4	D07 006		
5/16	D07 008		
3/8	D07 010		
1/2	D07 012		

Self Store Hose

SIZE (inches)	CODE	
1/8	D08 003	
1/4	D08 006	
3/8	D08 010	
1/2	D08 012	
3/4	D08 020	

Polyethylene Tube - Imperial & Metric

SIZE (inches)	CODE	SIZE (mm)	CODE
1/8	D13 003	4	D14 004
3/16	D13 005	5	D14 005
1/4	D13 006	6	D14 006
5/16	D13 008	8	D14 008
3/8	D13 010	10	D14 010
1/2	D13 012	12	D14 012
5/8	D13 016	15	D14 015
3/4	D13 020	16	D14 016

Push Fit Air Fitting Male Stud - Imperial

SIZE (inches)	CODE
1/8 x 1/8	I540 I301
3/16 x 1/8	I540 I302
3/16 x 1/4	I540 I303
1/4 x 1/8	I540 I304
1/4 x 1/4	I540 I305
1/4 x 3/8	I540 I306
5/16 x 1/8	I540 I307
5/16 x 1/4	I540 I308
5/16 x 3/8	I540 I309
3/8 x 1/4	I540 I312
3/8 x 3/8	I540 I313
3/8 x 1/2	I540 I314
1/2 x 1/4	I540 I315
1/2 x 3/8	I540 I316
1/2 x 1/2	I540 I317

Push Fit Air Fitting QF Male Connector - Metric

SIZE (mm x inches)	CODE
4 x 1/8	I540 M0403
4 x 1/4	I540 M0406
6 x 1/8	I540 M0603
6 x 1/4	I540 M0606
6 x 3/8	I540 M0610
8 x 1/8	I540 M0803
8 x 1/4	I540 M0806
8 x 3/8	I540 M0810
10 x 1/4	I540 M1006
10 x 3/8	I540 M1010
10 x 1/2	I540 M1012
12 x 1/8	I540 M1203
12 x 1/4	I540 M1206
12 x 3/8	I540 M1210
12 x 1/2	I540 M1212
16 x 1/2	I540 M1612



08 :: Airline Fittings



Reducing Joiner / Joiner

CODE	DESCRIPTION
I541 I0806	REDUCING JOINER
I541 I1006	REDUCING JOINER
I541 I1210	REDUCING JOINER
I541 I402	REDUCING JOINER
I541 I403	1/4 JOINER
I541 I404	5/16 JOINER
I541 I405	3/8 JOINER
I541 I407	1/2 JOINER



Union

SIZE (mm)	CODE
4	I541 M0404
6 x 4	I541 M0604
6	I541 M0606
8 x 6	I541 M0806
8	I541 M0808
10 x 8	I541 M1008
10	I541 M1010
10 x 12	I541 M1012
12	I541 M1212
16	I541 M1616



Elbow - Imperial & Metric

SIZE (inches)	CODE	SIZE (mm)	CODE
		4mm x 1/8	I542 M0403
1/4 x 1/8	I542 I504	4mm x 1/4	I542 M0406
1/4 x 1/4	I542 I505	6mm x 1/8	I542 M0603
1/4 x 3/8	I542 I506	6mm x 1/4	I542 M0606
5/16 x 1/8	I542 I507	6mm x 3/8	I542 M0610
5/16 x 1/4	I542 I508	8mm x 1/8	I542 M0803
5/16 x 3/8	I542 I509	8mm x 1/4	I542 M0806
3/8 x 1/4	I542 I512	10mm x 1/4	I542 M1006
i848s 3/8 x 3/8	I542 I513	10mm x 3/8	I542 M1010
3/8 x 1/2	I542 I514	10mm x 1/2	I542 M1012
1/2 x 1/4	I542 I515	12mm x 1/4	I542 M1206
1/2 x 3/8	I542 I516	12mm x 3/8	I542 M1210
1/2 x 1/2	I542 I517	12mm x 1/2	I542 M1212
		16mm x 1/2	I542 M1612

Union Elbow - Imperial & Metric

SIZE (inches)	CODE	SIZE (mm)	CODE
¼	I543 I603	6 QF	I543 M0606
⅝	I543 I604	8 QF	I543 M0808
¾	I543 I605	10 QF	I543 M1010
½	I543 I606	12 QF	I543 M1212
		16 x ½	I543 M1612


Bulkhead - Imperial & Metric

SIZE (inches)	CODE	SIZE (mm)	CODE
¼ x ¼	I544 BHI06	6	I544 BH06
⅝ x ⅝	I544 BHI08	8	I544 BH08
¾ x ¾	I544 BHI10	10	I544 BH10
½ x ½	I544 BHI12	12	I544 BH12


Branch Tee - Imperial & Metric

SIZE (inches)	CODE	SIZE (mm)	CODE
¼ x ⅝	I544 I804	6 x ⅝	I544 M0603
¼ x ¼	I544 I805	6 x ¼	I544 M0606
⅝ x ⅝ PUSHFIT	I544 I806	8 x ¼	I544 M0806
¾ x ¼	I544 I812	10 x ¼	I544 M1006
¾ x ¾	I544 I813	12 s¼	I544 M1206
½ x ¼	I544 I814	QFM12 12mm TUBE x ¾ BSP	I544 M1210
½ x ¾	I544 I816	QFM12 12mm TUBE x ½ BSP	I544 M1212
½ x ½	I544 I817		


Union Tee - Imperial & Metric

SIZE (inches)	CODE	SIZE (mm)	CODE
¼	I545 I703	4 QF	I545 M004
⅝	I545 I704	6 QF	I545 M006
¾	I545 I705	8 QF	I545 M008
½	I545 I706	10 QF	I545 M010
		12 QF	I545 M012
		16 QF	I545 M016



08 :: Airline Fittings



Female Pushfit - Imperial & Metric

SIZE (inches)	CODE	SIZE (mm)	CODE
1/4 x 1/4	I546 I0606	6 x 1/4	I546 M0606
3/8 x 1/4	I546 I1006	8 x 1/4	I546 M0806
3/8 x 3/8	I546 I1010	10 x 1/4	I546 M1006
1/2 x 1/4	I546 I1206	10 x 3/8	I546 M1010
1/2 x 3/8	I546 I1210	12 x 3/8	I546 M1210
		12 x 1/2	I546 M1212



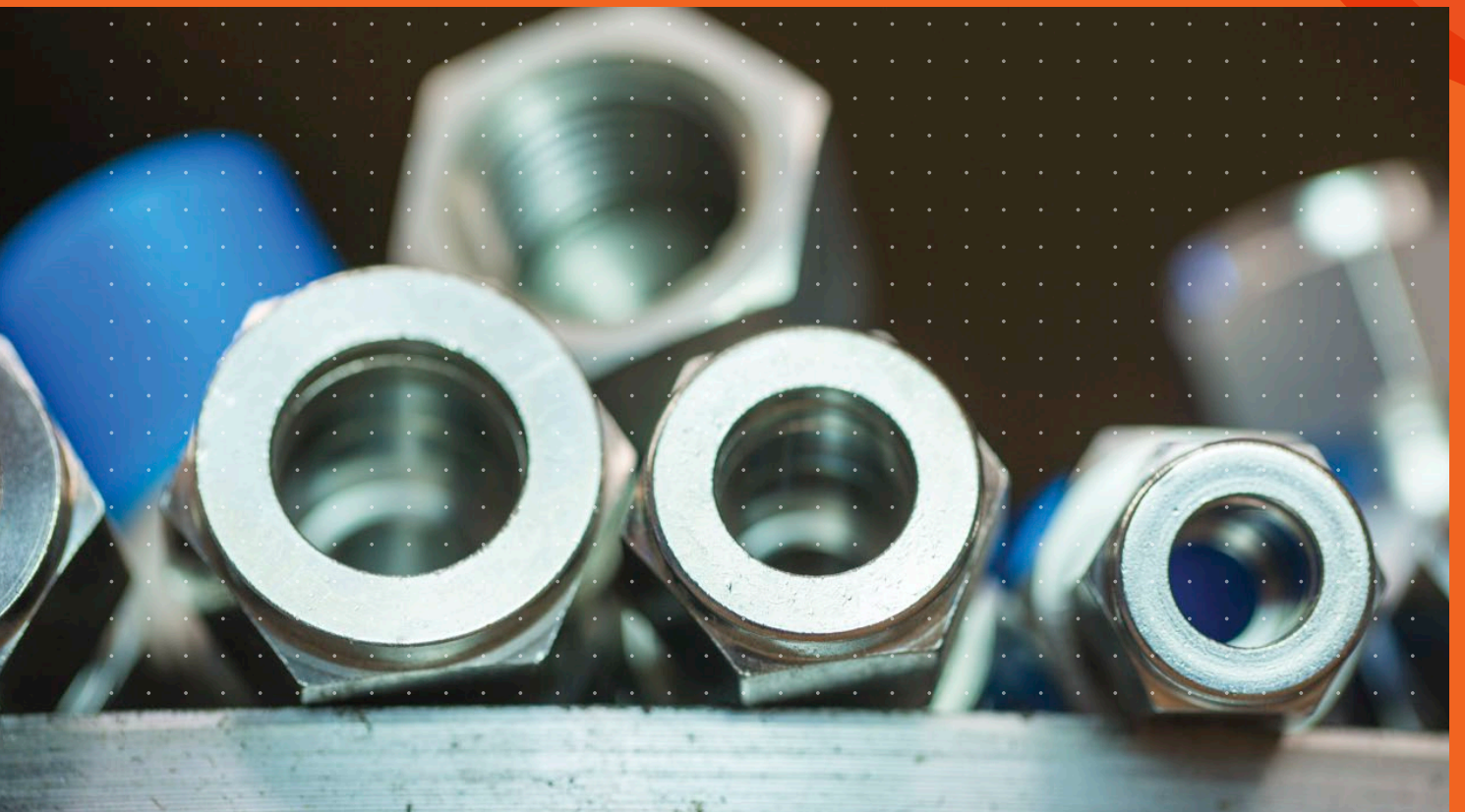
Tube Cutter

CODE	DESCRIPTION
ID15 001	TUBE CUTTER

09

COMPRESSION FITTINGS

COMPRESSION FITTINGS



Compression Fittings

Stainless Steel Compression Fittings

316L stainless steel compression fittings are designed for use with corrosive fluids or in aggressive environments, such as chemical manufacturing or food and beverage processing. Compact and highly chemical resistant, these compression fittings are suitable for use with both plastic and metal tubing.

Compression fittings consist of a tapered concave conical seat, a hollow barrel-shaped compression ring (sometimes called a ferrule), and a compression nut which is threaded onto the body of the fitting and tightened to make a leak proof connection

Ferrule Sets

SIZE (inches)	CODE	
1/8	I550 0303SS	
1/4	I550 0606SS	
5/16	I550 0808SS	
3/8	I550 1010SS	
1/2	I550 1212SS	
5/8	I550 1616SS	
3/4	I550 2020SS	



Ferrule Nut

SIZE (inches)	CODE	
1/4	I551 0006SS	
3/8	I551 0010SS	
1/2	I551 0015SS	
5/8	I551 0016SS	
20NB	I551 0020SS	
25NB	I551 0025SS	



Male Connector

SIZE (inches)	CODE	
1/4 x 1/8	I552 0603SS	
1/4 x 1/4	I552 0606SS	
5/16 x 1/4	I552 0806SS	
1/4	I552 0808SS	
1/4 x 3/8	I552 0810SS	
3/8 x 1/8	I552 1006SS	
3/8 x 1/4	I552 1008SS	
3/8	I552 1010SS	
3/8 x 1/2	I552 1015SS	
1/2 x 1/4	I552 1208SS	
1/2 x 3/8	I552 1210SS	
1/2 x 3/4	I552 1220SS	
1/2	I552 1515SS	
5/8 x 1/2	I552 1615SS	
5/8 x 3/4	I552 1620SS	
3/4 x 1/2	I552 2015SS	
3/4	I552 2020SS	
3/4 x 1	I552 2025SS	
1 x 1/2	I552 2515SS	
1 x 3/4	I552 2520SS	
1 x 1	I552 2525SS	
10mm x 1/4 MBSP	I552 M1008SS	
10mm x 3/8 MBSP	I552 M1010SS	



09.1 :: 316 Stainless Steel Tube



Tube Union

SIZE (inches)	CODE	
1/8	I553 0606SS	
1/4	I553 0808SS	
5/16	I553 0909SS	
3/8 x 1/4	I553 1008SS	
3/8	I553 1010SS	
1/2 x 3/8	I553 1210SS	
1/2	I553 1515SS	
5/8	I553 1616SS	
3/4 x 1/2	I553 2015SS	
3/4	I553 2020SS	
1	I553 2525SS	
10mm	I553 M1010SS	



Male Elbow

SIZE (inches)	CODE	
1/8 x 1/8	I554 0303SS	
1/4 x 1/8	I554 0603SS	
1/4 x 1/4	I554 0606SS	
1/4 x 3/8	I554 0610SS	
5/16 x 1/4	I554 0806SS	
3/8 x 1/4	I554 1006SS	
3/8 x 3/8	I554 1010SS	
3/8 x 1/2	I554 1012SS	
1/2" x 1/4	I554 1206SS	
1/2 x 3/8	I554 1210SS	
1/2	I554 1212SS	
1/2 x 3/4	I554 1220SS	
5/8 x 1/2	I554 1612SS	
3/4 x 1/2	I554 2012SS	
3/4	I554 2020SS	
1	I554 2525SS	



Female Connector

SIZE (inches)	CODE	
1/4	I555 0606SS	
3/8 x 1/4	I555 1006SS	
3/8 x 3/8	I555 1010SS	
1/2 x 3/8	I555 1210SS	
1/2 x 1/2	I555 1212SS	

Tube Elbow

SIZE (inches)	CODE	
1/4	I556 0606SS	
5/16	I556 0808SS	
3/8	I556 1010SS	
1/2	I556 1212SS	
5/8	I556 1616SS	
3/4	I556 2020SS	
1	I556 2525SS	



Branch Tee

SIZE (inches)	CODE	
1/8 x 1/8	I557 0303SS	
1/4	I557 0606SS	
1/4 x 3/8	I557 0610SS	
3/8	I557 1010SS	
1/2 x 1/4	I557 1206SS	
1/2 x 3/8	I557 1210SS	
1/2	I557 1212SS	



Tube Tee

SIZE (inches)	CODE	
1/4	I558 0006SS	
5/16	I558 0008SS	
3/8	I558 0010SS	
1/2	I558 0012SS	
5/8	I558 0016SS	
3/4	I558 0020SS	
25mm	I558 0025SS	



Bulkhead Unions

SIZE (inches)	CODE	
1/4	I560 0606SS	
3/8 x 3/8	I560 1010SS	
1/2	I560 1212SS	
3/4	I560 2020SS	



Male Run Tee

SIZE (inches)	CODE	
1/8 x 1/8	I561 0303SS	
1/4 x 3/8	I561 0610SS	
1/2 x 1/2	I561 1212SS	

09.2 :: Gauges and Regulators



Bottom Entry Gauge - 100mm Dial

SIZE (kpa)	CODE	
0 – 100	I598 0100	
0 – 400	I598 0400	
0 – 700	I598 0700	
0 – 1000	I598 1000	
0 – 10000	I598 10000	
0 – 1600	I598 1600	
0 – 16000	I598 16000	
0 – 2500	I598 2500	
0 – 25000	I598 25000	
0 – 4000	I598 4000	
0 – 6000	I598 6000	
0 – 8000	I598 8000	



Bottom Entry Pressure Gauge B/E - 63mm Dial

SIZE (kpa)	CODE	DESCRIPTION
	I599 0010	63mm DIA B/E GAUGE
0 – 100	I599 0100	
0 – 100	I599 0100SSN	
0 – 200	I599 0200	
0 – 400	I599 0400	
0 – 400	I599 0400SSN	ALL STAINLESS STEEL 1/4 NPT
0 – 700	I599 0700	
0 – 700	I599 0700SSN	ALL STAINLESS STEEL
0 – 1000	I599 1000	
0 – 10000	I599 10000	
0 – 1600	I599 1600	
0 – 16000	I599 16000	
0 – 1600	I599 1600SSN	ALL STAINLESS STEEL
0 – 2500	I599 2500	
0 – 25000	I599 25000	

Rear Pressure Gauge

SIZE (kpa)	CODE	
0 – 100	I599 R100	
0 – 1000	I599 R1000	
0 – 10000	I599 R10000	
0 – 1600	I599 R1600	
0 – 16000	I599 R16000	
0 – 200	I599 R200	
0 – 2500	I599 R2500	
0 – 25000	I599 R25000	
0 – 400	I599 R400	
0 – 4000	I599 R4000	
0 – 6000	I599 R6000	
0 – 700	I599 R700	
0 – 8000	I599 R8000	



Filter Regulators

SIZE (inches)	CODE	TYPE
1/4	I599 FIL06	FILTER
1/2	I599 FIL12	FILTER
1/4	I599 FILREG	FILTER REGULATOR
1/2	I599 FILREG12	FILTER REGULATOR
3/4	I599 FILREG20	FILTER REGULATOR
1	I599 FILREG25	FILTER REGULATOR
1/2	I599 FLR12	FILTER / LUB / REG
1/4	I599 FRL06	FILTER / LUB / REG
1/2	I599 FRL26	2-PCE FILTER / LUB / REG
1/4	I599 LUB06	LUBRICATOR
1/2	I599 LUB12	LUBRICATOR
1/4	I599 REG	REGULATOR C / W MOUNTS & GAUGE
1/2	I599 REG12	REGULATOR



Brass Mufflers

SIZE (inches)	CODE	
1/8	I599 M03	
3/4	I599 M20	
1	I599 M25	



Manifolds

PORTS	CODE	
2	I599 MAN2	
3	I599 MAN3	
4	I599 MAN4	
5	I599 MAN5	



The background of the entire page is a close-up photograph of several brass fire fittings. These fittings are cylindrical with threaded ends and a central opening. They are arranged in a way that creates a sense of depth, with some in sharp focus and others blurred in the background. The lighting is warm, highlighting the metallic texture of the brass. A red banner with a white dotted pattern runs horizontally across the middle of the image, containing the title text. On the right side, there are overlapping red circles of different shades, and a vertical text label is positioned within one of them.

10 FIRE FITTINGS

FIRE FITTINGS

Fire Fittings

Fire Hose Couplings

Storz is a type of hose coupling that connects using interlocking hooks and flanges. Amongst other uses, it has been widely employed on fire hoses in firefighting applications. It is also widely used in Australia. Storz connectors are usually made of brass or aluminium. They can be manufactured by casting for general hose connection and low pressure applications, but for firefighting, it is better to use forgings to guarantee the safety and durability of the coupling.

It is sometimes referred to as a sexless coupling, because rather than having a male and a female end connected by screw threads, either identical end can be joined to any other end of the same diameter.

The main benefit to using Storz couplings is that connecting hoses using Storz couplings is quick. Generally, a hose can be locked using it with a $\frac{1}{4}$ turn. By comparison, locking hoses using threaded couplings often takes several turns. Because of this, Storz couplings are widely viewed as a safer alternative to using threaded couplings. OzLinc is an authorised agent for AWG Storz couplings which are used by Department of Fire and Emergency Services.

British Instantaneous Couplings are available in both light alloy and brass to cater for all customer requirements favouring the light alloy fire fittings for their light physical weight and the marine trades favouring brass fire fittings for their salt water corrosion resistance and durability in the most extreme weather conditions.

Within the British Instantaneous Couplings range you will find fire hose couplings, male and female adaptors, blank caps / plugs, washers and spanners.

BIC Couplers :: 10.1

CODE	DESCRIPTION
I612 150	BIC MALE x 1½" HOSETAIL
I612 200	BIC MALE x 2" HOSETAIL
I612 250	BIC MALE x 2½" HOSETAIL
I612 BR150	40NB BRASS BIC FEMALE x HOSETAIL
I612 BR200	65 BRASS BIC FEMALE x 50mm HOSETAIL
I612 BR250	65 BRASS BIC FEMALE x 65mm HOSETAIL



CODE	DESCRIPTION
I613 150	BIC FEMALE x 1½" HOSETAIL
I613 200	BIC FEMALE x 2" HOSETAIL
I613 250	BIC FEMALE x 2½" HOSETAIL
I613 BR150	40NB BRASS BIC MALE x HOSETAIL
I613 BR200	65 BRASS BIC MALE x 50mm HOSETAIL
I613 BR250	65 BRASS BIC MALE x 65mm HOSETAIL



CODE	DESCRIPTION
I614 150	BIC COUPLER x 1½ FBSP
I614 150M	BIC FEMALE x 1½ MBSP
I614 200	BIC COUPLER x 2" FBSP
I614 200M	BIC COUPLER x 2" MALE BSP
I614 250	BIC COUPLER x 2½"FBSP
I614 250M	2½" FEM x 2½" MALE BSP THREAD
I614 BR150	40NB BRASS BIC FEMALE COUPLER
I614 BR200	65 BRASS BIC FEMALE x 50NB FEMALE BSP
I614 BR200M	65 BRASS BIC FEMALE x 50NB MALE BSP
I614 BR250	65 BRASS BIC FEMALE x 65NB FEMALE BSP
I614 BR250M	65 BRASS BIC FEMALE x 65 MALE BSP



10.1 :: BIC Couplers



CODE	DESCRIPTION
I615 150	MALE B.I. x 40MM FBSP
I615 150M	BIC ADAPTOR x 40NB MBSP
I615 200	BIC ADAPTOR x 2" FBSP
I615 200M	BIC ADAPTOR x 2" MALE BSP
I615 250	BIC ADAPTOR x 2½" FBSP
I615 250M	BIC ADAPTOR x 2½" MALE BSP
I615 BR150	40 BRASS BIC MALE x 40NB FEMALE BSP
I615 BR150M	40 BRASS BIC MALE x 40 MALE BSP
I615 BR200	65 BRASS BIC MALE x 50NB FEMALE BSP
I615 BR200M	65 BRASS BIC MALE x 50NB MALE BSP
I615 BR250	65 BRASS BIC MALE x 65NB FEMALE BSP
I615 BR250M	65 BRASS BIC MALE x 65NB MALE BSP

Japanese Nakajima Fitting

CODE	DESCRIPTION
I615 NFB50	50NB BRASS x 50 FEM BSP
I615 NHT40	40NB BRASS HOSETAIL
I615 NHT50	50NB BRASS HOSETAIL
I615 NHT65	65NB BRASS HOSETAIL
I615 NMB40	40NB BRASS x 40 MALE BSP

BIC Seal

CODE	SIZE (NB)
I654 BIC40	40
I654 BIC65	65

Storz Caps

CODE	DESCRIPTION
I654 AC025	25NB
I654 AC040	40NB
I654 AC050	50NB
I654 AC065	65NB
I654 AC080	80NB
I654 AC100	100NB
I654 ACH100	100NB C/W HANDLES
I654 ACH125	125NB C/W HANHLES
I654 ACH150	150NB C/W HANDLES



Storz Hosetails

CODE	SIZE (NB)	DESCRIPTION
I654 AT020	20	
I654 AT025	25	
I654 AT040	40	
I654 AT050	50	
I654 AT065	65	
I654 AT080	80	
I654 AT100	100	WITH HANDLES
I654 AT100N	100	NO HANDLES
I654 AT125	125	
I654 AT150	150	



Storz Adapters

CODE	DESCRIPTION
I654 AWG15	½ FBSP
I654 AWG20	¾ FBSP
I654 AWG25	1 FBSP
I654 AWG40	40NB FBSP
I654 AWG50	50NB FBSP
I654 AWG65	65NB FBSP
I654 AWG80	80NB FBSP
I654 AWG100	100NB FBSP
I654 AWG125	125NB x 125 FBSP
I654 AWG150	150NB x 150 FBSP



Storz Seals

CODE	SIZE
I654 AWS025	25NB
I654 AWS040	38NB
I654 AWS050	50NB
I654 AWS065	65NB
I654 AWS080	80NB
I654 AWS100	100NB
I654 AWS125	125NB
I654 AWS150	150NB

10.2 :: AWG Storz Fire Fittings



Brass Storz Adapters and Storz Seals

CODE	DESCRIPTION
I654 BA40	40NB BRASS AWG FBSP STORZ ADAPTER
I654 BA4050	40NB BRASS STORZ x 50NB FBSP AWG
I654 BA50	50NB BRASS AWG FBSP STORZ ADAPTER
I654 BA5040	50NB BRASS AWG STORZ x 40NB FBSP ADAPTER
I654 BA65	65NB BRASS AWG FBSP STORZ ADAPTER



Brass Storz Hosetail

CODE	SIZE (NB)
I654 BAH40	40
I654 BAH50	50
I654 BAH65	65



Brass Storz Cap

CODE	SIZE (NB)
I654 BC040	40
I654 BC050	50



FBSP

CODE	DESCRIPTION
I654 BF040	40NB BR x 40 FBSP
I654 BF050	50NB BR x 50 FBSP



Storz Hosetail

CODE	SIZE (NB)
I654 BH040	40
I654 BH050	50

Storz Cap

CODE	SIZE (mm)	
I654 HC025	25	
I654 HC040	38	
I654 HC050	50	



Storz Adapters

CODE	DESCRIPTION
I654 HF015	1/2" BSP ADAPTOR ALUM.
I654 HF020	3/4" FBSP COUPLER
I654 HF025	1" FBSP ADAPTOR
I654 HF040	1 1/2" FBSP AL. ADAPTOR
I654 HF050	50NB FBSP COUPLING
I654 HF125	5" FBSP ADAPTER
I654 HM020	3/4" MBSP ADAPTER
I654 HM025	1" MBSP ADAPTER
I654 HM5040	50mm x 40mm MALE BSP



Hosetail Storz Adapters

CODE	SIZE (inches)	
I654 HT015	1/2	
I654 HT020	3/4	
I654 HT025	1	
I654 HT040	1 1/2	
I654 HT050	2	



10.3 :: Fire Nozzles



Gunna Spray Nozzle

CODE	SIZE	
I618 000	15NB	



Ball Valve Nozzle

CODE	SIZE	
I618 030	¾	
I618 031	1	



FBSP Red Fire Nozzle

CODE	SIZE	
I618 040	20NB	
I618 045	25NB	
I618 050	25NB	
I618 055	1½	



Quell Hosetail

CODE	SIZE (inches)	
I618 070	¾	
I618 075	1	

Brass Blackout Nozzle

CODE	SIZE	
I618 088	¾	20mm HOSETAIL
I618 089	20NB	
I618 090	25NB	

**Jet Nozzle**

CODE	DESCRIPTION
I618 JS050	2" BSP ALUMINIUM JET-SPRAY NOZZLE

**Hose Reels**

CODE	SIZE	DESCRIPTION
983 1250M	½ x 50MTR	MOBILE HOSE REEL
983 2040	¾ x 40MTR	STANDARD HOSE REELER
983 2040M	¾ x 40MTR	MOBILE REELER
983 2060	¾ x 60MTR	LARGE REELER
983 2540	1 x 40MTR	STANDARD HOSE REELER





11

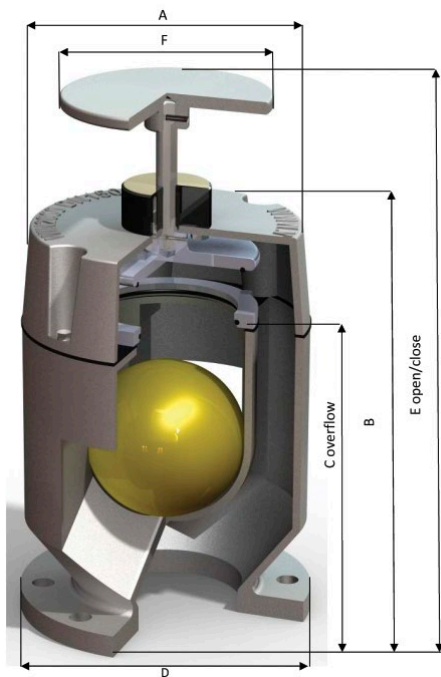
MARINE FITTINGS

MARINE FITTINGS



Marine Fittings

WINTEB - WIN2000 AIR PIPE HEADS WITH CLOSING DEVICE



	DN50 (2")	DN65 (2 ½")	DN80 (3")	DN100 (4")	DN125 (5")	DN150 (6")	DN175 (7")	DN200 (8")	DN250 (10")	DN300 (12")	DN350 (14")	DN400 (16")	DN450 (18")
A	Ø108	Ø130	Ø160	Ø195	Ø235	Ø275	Ø275	Ø340	Ø415	Ø560	Ø642	Ø725	Ø740
B ±2.5	161	200	226	265	320	372	372	470	593	741	842	950	1110
C Overflow	136	168	190	226	262	312	312	385	478	595	675	760	925
D	Flange connection according to any standard												
E open / close	232/215	283/255	311/282	358/322	420/372	492/433	492/433	609/528	710/620	932/838	1045/943	1176/1037	1320/1200
F	Ø100	Ø100	Ø100	Ø120	Ø120	Ø200	Ø200	Ø200	Ø300	Ø300	Ø300	Ø300	Ø300
Ball diameter	Ø60	Ø75	Ø90	Ø105	Ø130	Ø155	Ø155	Ø200	Ø250	Ø325	Ø360	Ø400	Ø480
Weight closing device kg.	2.5	3.5	4.5	7	9.5	13	14	21	33	65	90	117	138

Flowcurves

See drawing WIN2000 Type 1 with screen

WINTEB BSP Screwed Sea Water Resistant Aluminium Vent Heads C/W Screens

SIZE (mm)	CODE	
50	I848 WAV50	
65	I848 WAV65	
80	I848 WAV80	


WINTEB Flanged (Undrilled) Screwed Sea Water Resistant Aluminium Vent Heads C/W Screens

SIZE (mm)	CODE	
50	I848 WF050	
65	I848 WF065	
80	I848 WF080	
100	I848 WF100	
125	I848 WF125	
150	I848 WF150	


JIS Cast Iron Vent Heads

SIZE (mm)	CODE	
50	I848 AV050	
65	I848 AV065	
80	I848 AV080	
100	I848 AV100	
125	I848 AV125	
150	I848 AV150	



11.2 :: Dry Break Couplings



Male Dry Break (Tank Units) BSP Female

SIZE (mm)	STAINLESS STEEL	ALUMINIUM	
50	TODO 50	TODO AL050	
80	TODO 80	TODO AL080	
100	TODO 100	TODO AL100	
150	TODO 150	TODO AL150	



Female Dry Breaks (Hose Units) BSP Female

SIZE (mm)	STAINLESS STEEL	ALUMINIUM	
50	TODO 50F	TODO AL050F	
80	TODO 80F	TODO AL080F	
100	TODO 100F	TODO AL100F	
150	TODO 150F	TODO AL150F	

Scoop - Stainless Steel 316

SIZE (mm)	CODE	
15	I601 SKS12	
20	I601 SKS20	
25	I601 SKS25	
32	I601 SKS32	
40	I601 SKS40	
50	I601 SKS50	
65	I601 SKS65	
80	I601 SKS80	



Scoop - Bronze

SIZE	CODE	
Small	IS20 001	
Medium	IS20 002	
Mini	IS20 003	
Large	IS20 004	



Rose Strainer - Bronze

SIZE (inches)	CODE	
4	IS20 007	
3	IS20 008	
5	IS20 009	



Hose Tail

SIZE (mm)	STAINLESS STEEL	BRONZE	
15	I601 HT12	501 HT12	
20	I601 HT20	501 HT20	
25	I601 HT25	501 HT25	
32	I601 HT32	501 HT32	
40	I601 HT40	501 HT40	
50	I601 HT50	501 HT50	
57	I601 HT57		
65		501 HT65	
75		501 HT75	



11.3 :: Skin Fittings



Skin Fitting

SIZE (mm)	STAINLESS STEEL	BRONZE
10		501 0010
15	I601 15	501 0015
20	I601 20	501 0020
25	I601 25	501 0025
32	I601 32	501 0032
40	I601 40	501 0040
44		501 0044
50	I601 50	501 0050
65	I601 65	501 0065
80	I601 80	
88		
100	I601 100	
150	I601 150	



Stainless Steel Seastrainer

SIZE (NB)	CODE
20	SEAST 20
25	SEAST 25
32	SEAST 32
40	SEAST 40
50	SEAST 50
65	SEAST 65
80	SEAST 80
100	SEAST 100



Haitama Carbon Steel Flanged Strainer

SIZE (mm)	CODE
50	SEAST F050
65	SEAST F065
80	SEAST F080
100	SEAST F100

Tube Elbow - Stainless Steel 316

SIZE (mm) O.D.	STAINLESS STEEL	SIZE (mm) O.D.	HI POLISH
15.9	I602 016	12.7	I602 HP015
19.1	I602 020	19.1	I602 HP020
25.4	I602 025	25.4	I602 HP025
31.8	I602 032	31.8	I602 HP032
38.1	I602 040	38.1	I602 HP040
50.8	I602 050	50.8	I602 HP050
63.5	I602 063	63.5	I602 HP063
76.2	I602 075	76.2	I602 HP075
101.6	I602 100	101.6	I602 HP100
127.0	I602 125		
152.4	I602 150		



Tube Tee - Stainless Steel 316

SIZE (mm) O.D.	CODE	
12.7	I604 012	
19.1	I604 020	
25.4	I604 025	
31.8	I604 032	
38.1	I604 040	
50.8	I604 050	
63.5	I604 065	
76.2	I604 075	
101.6	I604 100	
127.0	I604 125	
152.4	I604 150	



Notes

A large grid of dots for taking notes, consisting of 20 columns and 30 rows of small, light gray dots.

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PIPE & MINING COUPLINGS

PIPE & MINING COUPLINGS



Shouldered Weld On Ring

SIZE (mm)	CODE	
50	800 SR050	
80	800 SR080	
100	800 SR100	
150	800 SR150	
200	800 SR200	



Shoulder Couplings

SIZE (mm)	CODE	
50	802 050	
60	802 060	
80	802 080	
100	802 100	
150	802 150	
200	802 200	



Grooved Couplings

SIZE (mm)	CODE	
50	803 050	
65	803 065	
80	803 080	
100	803 100	



12.2 :: Safety Claw Couplings



Male Couplings

SIZE (inches)	TYPE A	TYPE B	SURELOCK
3/8	800 0112	800 0411	800 1323
1/2	800 0109	800 0408	800 1320
3/4	800 0106	800 0405	800 1311
1	800 0103	800 0402	800 1314
1 1/4	800 0101	800 0401	800 1311
1 1/2			800 1307
2			800 1301
3			800 1301



Female Couplings

SIZE (inches)	TYPE A	TYPE B	SURELOCK
3/8	800 0113	800 0412	800 1324
1/2	800 0110	800 0409	800 1321
3/4	800 0107	800 0406	800 1318
1	800 0104	800 0403	800 1315
1 1/4			800 1312
1 1/2			800 1308
1 3/4			800 1305
2			800 1302



Hosetail Couplings

SIZE (inches)	TYPE A	TYPE B	SURELOCK
3/8	800 0114	800 0413	800 1325
1/2	800 0111	800 0410	800 1322
3/4	800 0108	800 0407	800 1319
1	800 0105	800 0404	800 1313
1 1/4	800 0102	800 0414	800 1313
1 1/2			800 1310
2			800 1306
3			800 1303



Blank Ends

SIZE (inches)	TYPE A	TYPE B	SURELOCK
3/8 x 1 1/4	800 0116	800 0416	800 1327
1 1/2 x 2	800 0111	800 0410	800 1328

Seals

SIZE (inches)	TYPE A	TYPE B	SURELOCK	H.P. SURELOCK
$\frac{3}{8} \times 1 \frac{1}{4}$	800 0702	800 4702	800 0707	800 0710
$\frac{3}{8} \times 1 \frac{1}{2}$				800 0708
$\frac{3}{8} \times 2$				800 0708
$\frac{3}{8} \times 3$				800 0709



3-Way Couplings

SIZE (inches)	TYPE A	TYPE B	SURELOCK
$\frac{3}{8} \times 1 \frac{1}{4}$	800 0116	800 0416	800 1321
$1 \frac{1}{2} \times 2$			800 1328



Safety Locking Pins

SIZE	TYPE A	TYPE B	SURELOCK
All Sizes	800 1002	800 1004	800 1002

The safety pin is an added measure to prevent separation of couplings during use.



Whipcheck

SIZE (inches)	CODE
$\frac{3}{8} \times 1 \frac{1}{4}$	800 2390
$1 \frac{1}{2} \times 2$	800 2391
3 x 4	800 2392

Spring loaded cable prevents 'live' hoses from whipping.



12.3 :: Hosetails



Flanged Hosetail

SIZE (mm)	CODE	
25	I875 025	
32	I875 032	
38	I875 040	
50	I875 050	
65	I875 065	
76	I875 080	
102	I875 100	
127	I875 125	
152	I875 152	
203	I875 200	
254	I875 250	
304	I875 300	



Footvalves Strainer Hosetail

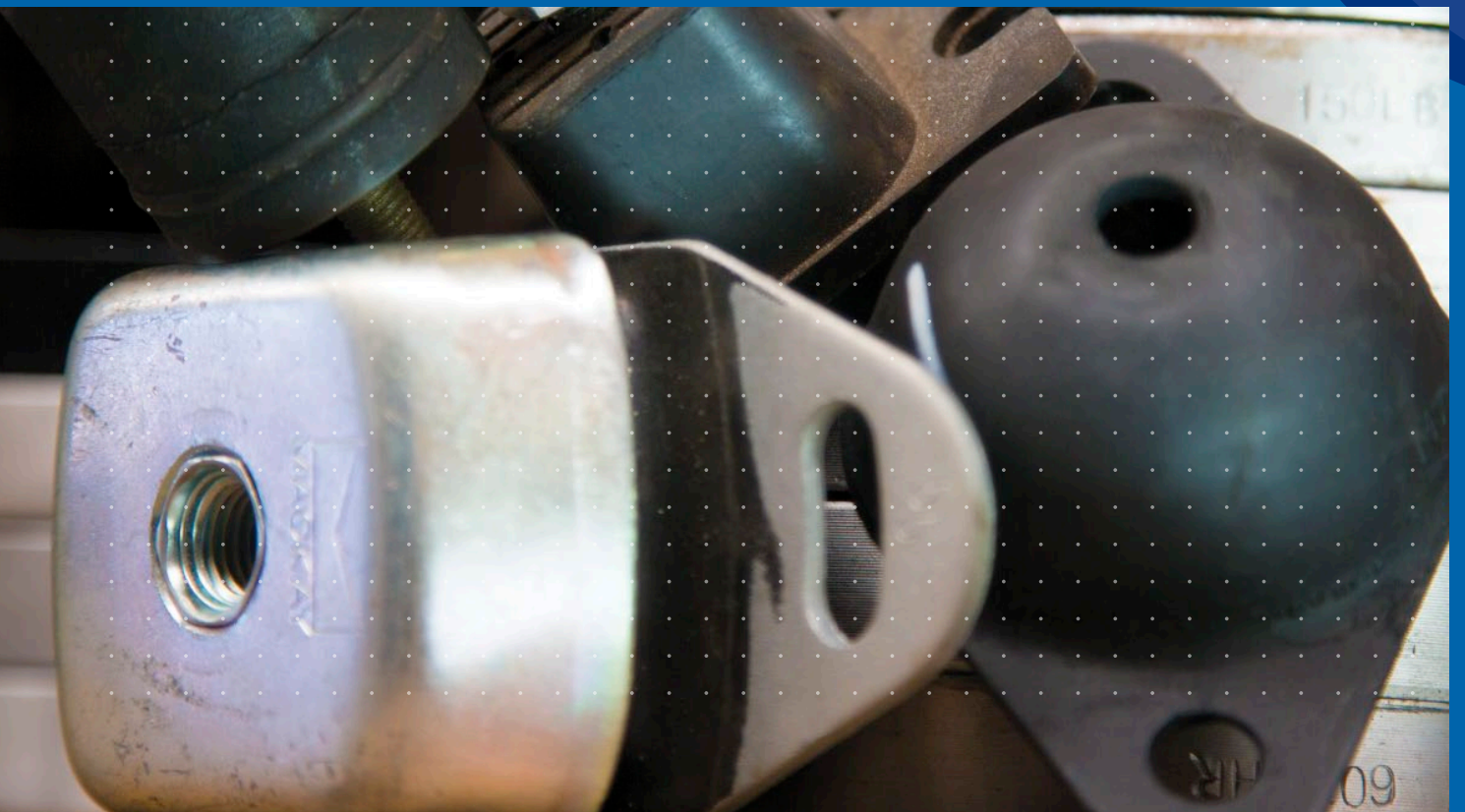
SIZE (mm)	CODE	
80	130 080	
100	130 100	
150	130 150	
200	130 200	

Also available flanged

13

VIBRATION CONTROL

VIBRATION CONTROL



Vibration Control

Isomounts

Isomounts are general-purpose vibration isolators suitable for mobile and static equipment installations.

Available in three different sizes Isomounts come with choice of rubber hardnesses and can be supplied with two types of specialist height adjusters.

Load Range

Isomount isolators are suitable for operation under all types of engines. They offer 3-way control of engine movement with excellent isolation efficiency. Maximum use of this 3-way control when the isomount isolators are used as engine supports can be obtained by arranging the isolator with their maximum flexibility (Y) at right angles to the engine crankshaft and maximum stiffness (X) in line with the crankshaft. Using the isolators in this manner also has the advantage in marine applications of providing isolation against propeller thrust. The Isomount range also features bump and rebound control, which prevents excessive movement under shock loads.

Nominal Stiffness Ratio

X = 2.5

Y = 0.75

Z = 1.0

Static Load

The static load figures shown in Figure 1 are offered as a reference to the maximum load acceptable for each rubber mix.

NOTE: When used in marine engine applications with thrust forces, the maximum load capacity is substantially reduced. See table above.

Height Adjusters

Two styles of height adjusters are available for each Isomount Isolator.

Type 1 Is supplied minus height adjuster.

Type 2 Is a general-purpose adjuster suitable for static applications.

Type 3 Is available for mobile applications, where thrust is an issue.

Height adjusters are recommended where precise alignment is required and care should be taken when height adjusters are used not to allow excessive bending forces to be imposed on the centre spindle.

In the past fitting of inappropriate height adjusters has resulted in premature failure of the isolator by damage to the centre spindle.

Both types of height adjusters are available separately for each size Isomount, under the part numbers shown in Figure 2.



FIGURE 1 - Static loads

TYPE 1	TYPE 2	TYPE 3	MAXIMUM LOAD	LOAD	MAXIMUM DEFLECTION (mm)	DURO
M20004	M20014	M20024	50	35	4	45
M20005	M20015	M20025	70	55	4	55
M20006	M20016	M20026	100	80	4	65
M22004	M22014	M22024	135	85	5	45
M22005	M22015	M22025	200	135	5	55
M22006	M22016	M22026	300	210	5	65
M22007	M22017	M22027	450	315	5	75
M24004	M24014	M24024	355	250	5	45
M24005	M24015	M24025	530	370	5	55
M24006	M24016	M24026	800	560	5	65
M24007	M24017	M24027	1000	700	5	75

FIGURE 2 - Height Adjusters

ISOMOUNT	HEIGHT ADJUSTER	
	GENERAL PURPOSE	H / THRUST
M2000	M2000A	M2000B
M2200	M2200A	M2200B
M2400	M2400A	M2400B

FIGURE 3 - Dimensions

CODE	TYPE	A	B	C	D	E		F	G	H	I	J	K	WEIGHT (kg)
						MAX	MIN							
M2000	1	38.5	120	60	M1	-	-	100	14	11	14	11	-	0.4
M2001	2	38.5	120	60	M1	32	22	100	14	11	14	11	3	0.5
M2002	3	38.5	120	60	M1	40	30	100	14	11	14	11	3	0.6
M2200	1	50.0	183	75	M1	-	-	140	13	20	30	13	-	0.9
M2201	2	50.0	18	75	M1	38	28	140	13	20	30	13	4	1.2
M2202	3	50.0	18	75	M1	41	31	140	13	20	30	13	4	1.4
M2400	1	68.0	228	112	M2	-	-	182	18	26	34	18	-	2.2
M2401	2	68.0	228	112	M2	44	34	182	18	26	34	18	4	2.8
M2402	3	68.0	228	112	M2	41	31	182	18	26	34	18	4	2.9

13.1 :: Isomounts

Installation Instructions

It is important that isolators of the correct size (weight carrying capacity) and rubber hardness are selected to suit the application. Details on load range and static deflections are shown in Figure 1.

Installation Without Height Adjuster

Ensure tightening torque values for the centre bolt fixing are followed as shown in Figure 4.

Check that after tightening of the centre bolt fixing that there is not excessive distortion, misalignment and rotation of the top cap relative to the base.

Where alignment of the equipment is required packing pieces or shims should be employed either below the mounting base plate or above the isolator top cap. Alignment should be rechecked after centre-fixing bolts have been tightened.

FIGURE 4 - Recommended Centre Bolt / Nut Tightening

CODE	TYPE	TORQUE NM
M2000	1	45 – 50
M2001	2	45 – 50
M2002	3	45 – 50
M2200	1	100 – 110
M2201	2	100 – 110
M2202	3	100 – 110
M2400	1	150 – 170
M2401	2	150 – 170
M2402	3	150 – 170

Installation With Height Adjuster

When accurate alignment of equipment is required one of two types of adjusters (Type '2' or '3') should be employed.

Ensure that excessive bending forces are not imposed on the centre spindle.

When using height adjusters, ensure that the recommended washer is placed hard against the top cap and the height adjusting spindle is fully located into the isolator.

If height adjusters are insufficient to achieve desired height adjustment shims or packing pieces should be employed under the mounting base.

The isolators with the height adjusters in the mean position (dimension Figure 3) should be fitted to the equipment, which should then be lowered onto the support. Vertical and horizontal alignment should now be effected using the height adjuster and slotted holes in the mounting base. After tightening centre fixings to the values shown in fig 4 recheck alignment. If necessary coupling and shaft alignment should be undertaken in accordance with the coupling manufactures recommendations. Where possible coupling alignment procedures should be carried out after the power unit has settled on the mountings (preferably 2 days after installation). Should this action not be possible the power unit should be raised approximately 1mm after completion of the alignment procedure.

Specifications

The MULTICUSHION system is a new approach to isolator selection. The large range of sizes and durometers combined with interchangeable metric and imperial studs allows selection of the most appropriate cushion isolator for the application

First choose the best cushion for the application and then choose the desired stud combination.

MULTICUSHION isolators are made from high-grade natural rubber and all metal surfaces are passivated to automotive OEM standards. The interchangeable studs are easily inserted with a screwdriver whilst the microBOND™ fastener adhesive system' provides secure thread locking.

NOTE: *Multicushions are not recommended for use under permanent tension loading.*



Multicushions

CODE	THREAD A (mm)	THREAD B (mm)	DIMENSION C (mm)	DIMENSION D (mm)	DIMENSION E (mm)	DIMENSION F (mm)	DIMENSION G (mm)
M4M4	M4 x 0.7	M4 x 0.7	4.0	0.8	0.9	19.0	15.0
104105	M4 x 0.7	M5 x 0.8	4.0	0.8	0.9	20.5	15.0
M4W316	M4 x 0.7	3/16" WHIT x 24tpi	4.0	0.8	0.9	20.5	15.0
M6M6	M6 x 1.0	M6 x 1.0	6.0	1.3	1.4	21.0	15.0
M6M8	M6 x 1.0	M8 x 1.25	6.0	1.3	1.4	28.0	20.0
M6W316	M6 x 1.0	3/16" WHIT x 24tpi	6.0	1.3	1.4	22.5	15.0
M6W14	M6 x 1.0	1/4" WHIT x 20tpi	6.0	1.3	1.4	22.5	15.0
M8M8	M8 x 1.25	M8 x 1.25	8.0	1.3	1.4	28.0	20.0
M81V110	M8 x 1.25	M10 x 1.5	8.0	1.3	2.0	35.0	25.0
M8W516	M8 x 1.25	5/16" WHIT x 18tpi	8.0	1.3	1.4	31.0	20.0
M10M10	M10 x 1.5	M10 x 1.5	10.0	1.6	2.0	37.0	25.0
M10M12	M10 x 1.5	M12 x 1.75	10.0	1.6	2.0	49.0	35.0
M10W38	M10 x 1.5	3/8" WHIT x 16tpi	10.0	1.6	2.0	39.0	25.0
M16M16	M16 x 2.0	M16 x 2.0	16.0	1.6	2.0	56.0	40.0

microBOND™ Thread Security

THREAD	PREVAILING ON-TORQUE (MAX) Nm	BREAKAWAY OFF-TORQUE (MIN) Nm	PREVAILING OFF-TORQUE (MIN) Nm
M4	--	--	--
M6	1.8	1.5	0.8
M8	2.8	4.0	2.0
M10	5.5	11.0	4.0
M16	14.0	33.0	16.0

13.2 :: Multicushion Isolators

Cushion Details									
CODE	DIMENSIONS				COMPRESSION		SHEAR		WEIGHT (kg)
	DIAM A (mm)	HEIGHT B (mm)	DURO	(FEMALE) THREAD	MAX LOAD (kg)	MAX DEFLECTION (mm)	MAX LOAD (kg)	MAX DEFLECTION (mm)	
M10131540	13	15	40	M4	13.0	2.5	2.5	3.0	0.01
M10131555	13	15	55	M4	25.0	2.5	4.5	3.0	0.01
M10131570	13	15	70	M4	34.0	2.5	6.0	3.0	0.01
M10162040	16	20	40	M6	20.5	3.0	4.5	4.0	0.01
M10162055	16	20	55	M6	42.5	3.0	9.0	4.0	0.01
M10162070	16	20	70	M6	53.5	3.0	12.0	4.0	0.01
M10202540	20	25	40	M6	30.5	6.0	5.0	6.0	0.02
M10202555	20	25	55	M6	65.0	6.0	11.0	6.0	0.02
M10202570	20	25	70	M6	89.5	6.0	15.0	6.0	0.02
M10252040	25	20	40	M6	36.0	2.5	7.0	3.0	0.02
M10252055	25	20	55	M6	54.0	2.5	12.0	3.0	0.02
M10252070	25	20	70	M6	66.00	2.5	15.0	3.0	0.02
M10253040	25	30	40	M6	55.0	8.0	10.5	8.0	0.03
M10253055	25	30	55	M6	98.0	8.0	19.0	8.0	0.03
M10253070	25	30	70	M6	120.0	8.0	26.5	8.0	0.03
M10302040	30	20	40	M6	42.0	2.5	8	3.0	0.03
M10302055	30	20	55	M6	62.0	2.5	13	3.0	0.03
M10302070	30	20	70	M6	82.0	2.5	16	3.0	0.03
M10303040	30	30	40	M8	44.0	4.0	10.0	5.0	0.05
M10303055	30	30	55	M8	77.0	4.0	18.0	5.0	0.05
M10303070	30	30	70	M8	108.0	4.0	33.0	5.0	0.05
M10304040	30	40	40	M8	49.5	8.0	9.0	10.0	0.06
M10304055	30	40	55	M8	86.0	8.0	17.5	10.0	0.06
M10304070	30	40	70	M8	131.0	8.0	35.0	10.0	0.06
M10403040	40	30	40	M8	40.5	4.0	17.5	5.0	0.08
M10403055	40	30	55	M8	114.0	4.0	28.5	5.0	0.08
M10403070	40	30	70	M8	195.0	4.0	49.5	5.0	0.08
M10404040	40	40	40	M8	78.0	8.0	20.0	10.0	0.09
M10404055	40	40	55	M8	148.0	8.0	34.0	10.0	0.09
M10404070	40	40	70	M8	233.0	8.0	53.5	10.0	0.09
M10503540	50	35	40	M10	139.50	6.0	21.5	6.0	0.14
M10503555	50	35	55	M10	264.0	6.0	40.5	6.0	0.14
M10503570	50	35	70	M10	363.0	6.0	59.0	6.0	0.14
M10754540	50	45	40	M 10	111.5	8.0	25.0	10.0	0.16
M10754555	50	45	55	M10	195.0	8.0	44.5	10.0	0.16
M10754570	50	45	70	M10	244.0	8.0	62.0	10.0	0.16
M10755040	75	50	40	M 10	390.0	12.0	76.0	13.0	0.04
M10755055	75	50	55	M10	733.0	12.0	140.0	13.0	0.04
M10755070	75	50	70	M10	986.0	12.0	208.0	13.0	0.04
M101006040	100	60	40	M16	510.0	10.0	100.0	10.0	0.8
M101006055	100	60	55	M16	955.0	10.0	180.0	10.0	0.8
M101006070	100	60	70	M16	1500.0	10.0	306.0	10.0	0.8
M101507540	100	75	40	M16	1500.0	18.0	277.0	20.0	2.2
M101507555	100	75	55	M16	3200.0	18.0	525.0	20.0	2.2
M101507570	100	75	70	M16	4500.0	18.0	760.0	20.0	2.2

Stainless Steel Multicushions

Stainless steel Multicushion isolators are manufactured in the most popular sizes from high-grade natural rubber and stainless steel (Type 304) metal components.

Available in two rubber hardnesses the cushions are supplied without fixing studs. Mackay recommends fixing with appropriate stainless steel hexagonal socket set screws used with an appropriate locking compound.

NOTE: Multicushions are not recommended for use under permanent tension loading



Stainless Steel Multicushion Details

CODE	DIMENSIONS				COMPRESSION		SHEAR		WEIGHT (kg)
	DIAM A (mm)	HEIGHT B (mm)	DURO	(FEMALE) THREAD	MAX LOAD (kg)	MAX DEFLECTION (mm)	MAX LOAD (kg)	MAX DEFLECTION (mm)	
M11202540	20	25	40	M6	30.5	6.0	5.0	6.0	0.02
M1120255	20	25	55	M6	65.0	6.0	11.0	6.0	0.02
M1125204	25	20	40	M6	36.0	2.5	7.0	3.0	0.02
M11252055	25	20	55	M6	54.0	2.5	12.0	3.0	0.02
M11253040	25	30	40	M6	55.0	8.0	10.5	8.0	0.03
M11253055	25	30	55	M6	98.0	8.0	19.0	8.0	0.03
M11302040	30	20	40	M6	42.0	2.5	8	3.0	0.03
M11302055	30	20	55	M6	62.0	2.5	13	3.0	0.03
M11303040	30	30	40	M8	44.0	4.0	10.0	5.0	0.05
M11303055	30	30	55	M8	77.0	4.0	18.0	5.0	0.05
M11304040	30	40	40	M8	49.5	8.0	9.0	10.0	0.06
M11304055	30	40	55	M8	86.0	8.0	17.5	10.0	0.06
M11403040	40	30	40	M8	40.5	4.0	17.5	5.0	0.09
M11403055	40	30	55	M8	114.0	4.0	28.5	5.0	0.09
M11404040	40	40	40	M8	78.0	8.0	20.0	10.0	0.10
M11404055	40	40	55	M8	148.0	8.0	34.0	10.0	0.10
M11503540	50	35	40	M10	139.5	6.0	21.5	6.0	0.14
M11503555	50	35	55	M10	264.0	6.0	40.5	6.0	0.14
M11504540	50	45	40	M10	111.5	8.0	25.0	10.0	0.16
M11504555	50	45	55	M10	195.0	8.0	44.5	10.0	0.16

13.3 :: Conflex Isolators

Conflex isolators are designed to meet almost all machinery installations within the load range. Available in four rubber hardnesses they are the versatile answer to your mobile or static vibration problems.



Conflex Isolators

CODE	A	B	C	D	E	F	G	WEIGHT (kg)	TIGHTENING TORQUES (NM)
M1111##	80	60	29	50	31	8.5	M8	0.05	10
M1112##	100	76	32	60	46	8.5	M10	0.15	15
M1112##NM12	100	76	32	60	46	8.5	M12	0.15	15

Nominal Characteristics

CODE	MAX LOAD (kg)	DEFLECTION MAX LOAD (mm)	SHEAR (kg)	DEF (mm)	DURO	COLOUR CODE	WEIGHT (kg)
M111135	30	4.5	6	5	35	Green	0.05
M111145	40	5	10	5	45	Red	0.05
M111155	50	5.5	15	5	55	Yellow	0.05
M111165	75	5	20	5	65	White	0.05
M111235	90	6	20	6	35	Green	0.15
M111235 NM12-RED	90	6	20	6	35	Red	0.15
M111245	110	6	25	6	45	Red	0.15
M111255	160	6	40	6	55	Yellow	0.15
M1112551 VM12-GRN	160	6	40	6	55	Green	0.15
M111265	250	6	65	6	65	White	0.15

Stainless Steel Conflex Safety Interlocked Isolator

Similar dimensions to M1112 ## Isolators with the inclusion of Internal safety interlocks for failsafe protection. Manufactured in high-grade oil resisting rubber compound and type 304 stainless steel for marine and corrosive applications.

Conflex Isolators							
CODE	A	B	C	D	E	F	G
M1113SN30	100	76	32	60	46	8.5	M8
M1113SN40	100	76	32	60	46	8.5	M8
M1113SN50	100	76	32	60	46	8.5	M8
M1113SN60	100	76	32	60	46	8.5	M8
M1113SN70	100	76	32	60	46	8.5	M8

CODE	MAX LOAD (kg)	MAX DEFLECTION (mm)	
M1113SN30	70	2.5	
M1113SN40	130	2.5	
M1113SN50	210	2.5	
M1113SN60	270	2.5	
M1113SN70	330	2.5	

13.4 :: Flange Isolators

These special isolators were developed to meet almost every type of machinery installation within the loading range, with telescopic metal inserts providing considerable stability in all directions. The two light duty isolators, M110 and M114 are equipped with upper metal inserts, tapped to receive standard bolts or set screws. The isolators can be fastened to the floor or other base, with bolts through the two lugs of the lower metal stamping. When using the heavy-duty isolators M139 and M140, loads can be suspended as well as supported.

Interlocking flanges incorporated in M139 and M140 isolators ensure suspension even if the rubber is completely destroyed by fire, etc.



Flange Isolators

CODE	STAINLESS STEEL	A	B	C	D	E	F	G (inches)	H	WEIGHT (kg)
M110	--	60.3	76	41	48	3	22	$\frac{7}{16}$ - 20unf	8.7	0.1
M114 *	--	76.1	92	57	60	3	29	$\frac{1}{2}$ - 20unf	8.7	0.2
M140 *	--	110.0	141	--	83	3	41	$\frac{17}{32}$	13.5	0.4
M139	--	127.0	157	--	102	3	48	$\frac{13}{16}$	14.2	0.6
M14060SS	304	110.0	141	--	83	3	41	$\frac{17}{32}$	13.5	0.4
M1390SS	316	127.0	157	--	102	3	48	$\frac{13}{16}$	14.2	0.6

* Part Numbers M114 and M140 are available with a shield (Part Number M189) to protect the isolators from mechanical and chemical attack. Order if required.

Duro Colour Code

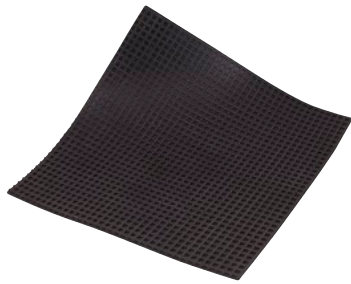
DURO	COLOUR
40	Red
50	Yellow
60	White
70	Marked 70

To assist the isolation system designer we have provided the approximate deflections of Mackay isolators at various static loadings. It therefore becomes a simple matter to obtain the isolation efficiency by referring to the Mackay graph on "disturbing frequencies/deflections" (Shown in our current Flexible Isolator Catalogue). If you require any further technical data on Mackay isolators, please contact the Mackay Technical Department.

Load / Deflection				
CODE	COMPRESSION		SHEAR	
	LOAD (kg)	DEF (mm)	LOAD (kg)	DEF (mm)
M11040	25	2.3	20	2.2
	30	2.8	25	2.7
	35	3.2	30	3.3
M11050	40	3.7	35	3.8
	40	2.5	35	2.5
	45	2.8	40	2.8
M11060	50	3.2	45	3.2
	55	3.5	50	3.5
	31	1.0	21	1.0
M11440	60	2.0	54	2.0
	85			
	40	2.4	25	2.3
M11450	45	2.7	30	2.8
	50	3.0	35	3.2
	55	3.3	40	3.7
M11460	60	3.6		
	60	2.4	40	2.4
	65	2.6	45	2.7
M13940	70	2.8	50	3.0
	75	3.0	55	3.3
	80	3.2	60	3.6
M13950	85	3.4		
	90	2.4	60	2.6
	95	2.6	65	2.8
M13960	100	2.7	70	3.0
	105	2.8	75	3.2
	110	3.0	80	3.4
M13970	115	3.1		
	120	3.2		
	125	3.4		
M13980	130	3.5		
	400	3.4	150	3.0
	425	3.6	175	3.5
M13990	450	3.8	200	4.0
	475	4.0	225	4.5
	500	4.2	250	5.0
M14000	525	4.4		
	550	4.6		
	550	3.5	250	3.1
M14010	575	3.6	275	3.4
	600	3.8	300	3.7
	625	3.9	325	4.0
M14020	650	4.1	350	4.3
	675	4.2	375	4.6
	700	4.4	400	4.9
M14030	725	4.5		

Load / Deflection				
CODE	COMPRESSION		SHEAR	
	LOAD (kg)	DEF (mm)	LOAD (kg)	DEF (mm)
M13960	725	3.6	400	3.4
	750	3.7	425	3.6
	775	3.8	450	3.8
M13970	800	3.9	475	4.0
	825	4.1	500	4.0
	850	4.2	525	4.4
M13980	875	4.3	550	4.6
	900	4.4		
M13990	1100	3.5	550	3.1
	1125	3.6	575	3.3
	1150	3.7	600	3.5
M14000	1175	3.8	625	3.7
	1200	3.9	650	4.0
	1225	4.0	675	4.2
M14010	1250	4.1	700	4.4
	1275	4.2	725	4.5
	200	3.3	100	3.3
M14020	210	3.5	110	3.7
	220	3.7	120	4.0
	230	3.9	130	4.3
M14030	240	4.0	140	4.7
	250	4.2		
	260	4.3		
M14040	270	4.5		
	280	4.7		
	280	3.6	120	3.2
M14050	290	3.1	130	3.5
	300	3.8	140	3.7
	310	3.9	150	4.0
M14060	320	4.1	160	4.3
	330	4.2	170	4.5
	340	4.3	180	4.8
M14070	350	4.4		
	350	3.3	160	3.6
	375	3.5	170	3.8
M14080	400	3.8	180	4.0
	425	4.0	190	4.2
	450	4.2	200	4.4
M14090	476	4.5		
	500	4.7		
	650	3.4	200	3.3
M14100	675	3.5	210	3.5
	700	3.7	220	3.7
	725	3.8	230	3.8
M14110	750	3.9	240	4.0
	775	4.1	250	4.2
	800	4.2	260	4.3
M14120	825	4.3	270	4.5
	850	4.5	280	4.7
	880	4.6		

13.5 :: Machinery Mounting Pad



Machinery Mounting Pad			
CODE	SIZE (mm)	THICKNESS (mm)	WEIGHT (kg)
M164	475 x 475	7	1.7

13.6 :: Flexi Straps



Rubber Straps & Fasteners				
CODE	LENGTH (mm)	STRETCH LENGTH (mm)	WITH HOOKS (mm)	WEIGHT (kg)
FHS9K	230	285	+ 100	0.08
FHS15K	380	475	+ 100	0.10
FHS24K	610	765	+ 100	0.14
FHS31 K	785	980	+ 100	0.16

Single-Sphere Connectors - Table E

CODE	NOMINAL DIAMETER (inches)	NOMINAL DIAMETER (mm)	100 PSI	150 PSI	200 PSI	225 PSI
890 32	1 – ¼	32	○	○	●	●
890 40	1 – ½	40	○	○	●	●
890 50	2	50	○	○	●	●
890 65	2 – ½	65	○	○	●	●
890 80	3	80	○	○	●	●
890 100	4	100	○	○	●	●
890 125	5	125	○	○	●	●
890 150	6	150	○	○	●	●
890 200	8	200	○	○	●	●
890 250	10	250	○	○	●	●
890 300	12	300	○	●	●	●
890 350	14	350	●	●		
890 400	16	400	●			
890 450	18	450	●			
890 500	20	500	●			



- Use control rods

Single-Sphere Connectors - ANS Flanged

CODE	NOMINAL DIAMETER (inches)	NOMINAL DIAMETER (mm)	100 PSI	150 PSI	200 PSI	225 PSI
890 A32	1 – ¼	32	○	○	●	●
890 A40	1 – ½	40	○	○	●	●
890 A50	2	50	○	○	●	●
890 A65	2 – ½	65	○	○	●	●
890 A80	3	80	○	○	●	●
890 A100	4	100	○	○	●	●
890 A125	5	125	○	○	●	●
890 A150	6	150	○	○	●	●
890 A200	8	200	○	○	●	●
890 A250	10	250	○	○	●	●
890 A300	12	300	○	●	●	●
890 A350	14	350	●	●		
890 A400	16	400	●			
890 A450	18	450	●			
890 A500	20	500	●			



- Use control rods

Notes

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14

FUEL FITTINGS

FUEL FITTINGS



Aluminium Fuel Nozzles

CODE	TYPE	DESCRIPTION
981 005	Auto-Shutoff	1" BSP INLET (SWIVEL) WITH 19mm NOZZLE (80 LTR/MIN)
982 000	Leaded	25mm SFE NOZZLE C/W VITON O-RING
982 001	Unleaded	19mm SFE NOZZLE C/W VITON O-RING



Aluminium Air Vent

CODE	SIZE	DESCRIPTION
982 004	25mm BSP	C/W BRASS GAUZE



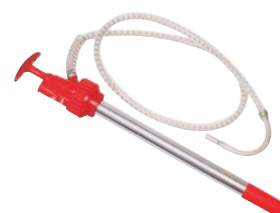
Aluminium Locking Cap

CODE	SIZE	
982 005	50mm BSP	



Pumps & Meters

CODE	LITRES / MINUTE	DESCRIPTION
981 201	20	STANDARD ROTARY DRUM PUMP
981 2000	100	HI-FLOW GEARED ROTARY DRUM PUMP
981 001	20	20 LTR GEAR OIL PUMP
981 004	60	60 LTR GEAR OIL PUMP
982 005	--	1" INLET FUEL FLOW METER



15

HOSE & CLAMPS

HOSE & CLAMPS

ALFAGOMMA - ITALY - P-191 - 20 BAR

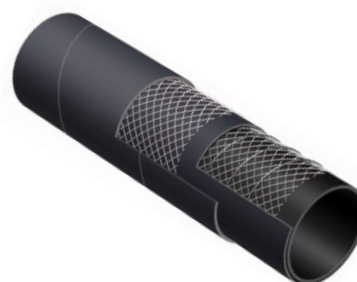
Petrol & Oil Suction Hose

TUBE: black, static conducting, nitrile rubber. **REINFORCEMENT:** high tensile textile cords and multiple helix wire. **COVER:** black/red wrapped chloroprene rubber compound.

APPLICATION: anti-static suction and delivery of fuel and oils up to 50% aromatic, also excellent engine exhaust (wet) hose. **TEMP. RANGE:** -30°C to 100°C. **STANDARDS:** ISO 1307, NFT 47255 CAT1 - CAT2, SAE 100 r4

Petrol and Oil Suction Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H28-020	19	29	150	540	0.59	20,61,125
H28-025	25	35	150	460	0.73	20,61,125
H28-032	32	42	150	450	0.90	20,61,125
H28-040	38	49	150	450	1.03	20,61,125
H28-044	45	56	150	450	1.19	20,61,125
H28-050	51	62	150	510	1.33	20,61,125
H28-065	63.5	76	150	450	1.92	20,61
H28-080	76	89	150	450	2.54	20,61
H28-090	90	103	150	450	2.87	20,61
H28-100	102	116	150	450	3.70	20,61
H28-114	114	129	150	450	5.03	20,61
H28-125	127	144	150	450	5.59	20,61
H28-150						
H28-200						



Petrol & Oil Delivery Hoses

TUBE: black, static conducting, nitrile rubber. **REINFORCEMENT:** high tensile textile cords. **COVER:** black/red wrapped chloroprene rubber compound. **APPLICATION:** anti-static delivery of fuel and oils up to 50% aromatic. **TEMP. RANGE:** -30°C to 100°C. **STANDARDS:** NFT 47255 C1-C2 ISO 1307.

Petrol and Oil Delivery Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H27-020	19	27	150	650	0.63	20,61,125
H27-025	25	33	150	510	0.79	20,61,125
H27-032	32	42	150	450	0.95	20,61,125
H27-040	38	48	150	450	1.30	20,61,125
H27-044	44	56	150	450	1.29	20,61,125
H27-050	51	61	150	560	1.69	20,61,125
H27-065	63.5	78	150	450	2.02	20,61,125
H27-075	76	88	150	450	2.09	20,61,125
H27-090	90	106	150	450	2.68	20,61
H27-100	102	118	150	450	3.35	20,61
H27-114	114	130	150	450	3.90	20,61
H27-125	127	141	150	450	5.53	20,61
H27-150	152	168	150	450	7.20	20,61



Both Types of Hose come with Copper Anti-Static Wires.

15.1 :: Oil and Petroleum Hose



Fuel Line Hose

SIZE (inches)	CODE	
1/2	F10 012	SAE30R7
3/8	F10 010	
5/16	F10 008	
1/4	F10 006	
3/16	F10 005	
5/16	IDHH 313	
1/4	IDHH 250	BLUE
25NB	IDHH 1000	



Fuel Delivery Heavy Duty

SIZE (NB)	CODE	
25	H27 65825	
32	H27 65832	
40	H27 65840	
50	H27 65850	



Aircraft Refueling Hose

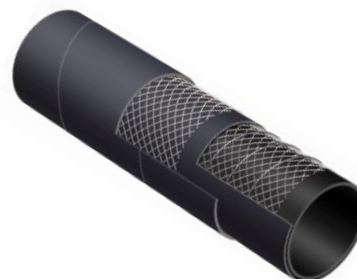
SIZE (NB)	CODE	
25	H27 AR025	
40	H27 AR040	

Light-Weight Marine Exhaust Hose

TUBE: black, smooth, nitrile rubber, oil mist and gas exhaust resistant. **REINFORCEMENT:** high tensile textile cords and helix wire. **COVER:** black/red synthetic rubber, ozone and oil resistant. **APPLICATION:** designed for conveying wet exhaust fumes in vessels up to 24 meters. lightweight construction gives excellent flexibility. **TEMP. RANGE:** -20°C to 100°C. **STANDARDS:** DNV/Lloyds certification approval.

Light-Weight Marine Exhaust Hose

CODE	ID (mm)	BEND RADIUS (m)	ROLL LENGTHS (m)
H23-025	25	110	20,61,125
H23-032	32	130	20,61,125
H23-040	38	150	20,61,125
H23-045	45	180	20,61,125
H23-050	51	200	20,61,125
H23-057	58	230	20,61,125
H23-060	60	240	20,61,125
H23-065	63.5	254	20,61,125
H23-070	70	320	20,61
H23-080	76	380	20,61
H23-090	90	400	20,61
H23-100	102	460	20,61
H23-110	110	480	10,20
H23-152	152	700	10,20
H23-203	203	1200	10,20

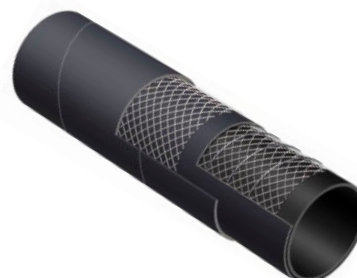


Heavy Duty Marine Exhaust Hose

TUBE: black, smooth, nitrile rubber, oil mist and gas exhaust resistant. **REINFORCEMENT:** high tensile textile cords and helix wire. **COVER:** black/red synthetic rubber, ozone and oil resistant. **APPLICATION:** specially designed marine exhaust hose for conveying wet exhaust fumes for any size vessel. contains extra ply cord for higher burst pressure. **STANDARDS:** DNV/Lloyds certification approval.

Heavy Duty Marine Exhaust Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H23-150	152	165	72	217	5.50	10,20
H23-200	203	220	72	217	12.50	10,20
H23-250	254	274	72	217	17.50	10
H23-300	305	327	72	217	27.00	10



15.3 :: Rubber Water Hose

Heavy Duty Water Suction Hose

TUBE: black CBR - smooth. **REINFORCEMENT:** high tensile textile cords - multiple steel helix spiral. **COVER:** black/green SBR rubber - abrasion and weather resistant.

APPLICATION: suction and delivery of liquids for irrigation and general applications. - designed for long lasting service in severe applications. **TEMP. RANGE:** -35°C to 85°C.

STANDARDS: ISO 1307.



Heavy Duty Water Suction Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H14-020	19	29	150	380	0.59	20,61
H14-025	25	35	150	450	0.74	20,61
H14-032	32	42	150	450	0.91	20,61
H14-040	38	49	150	450	1.05	20,61
H14-044	45	56	150	450	1.24	20,61
H14-050	51	62	150	450	1.39	20,61
H14-065	63.5	76	150	450	2.01	20,61
H14-080	76	89	150	450	2.63	20,61
H14-090	89	103	150	450	3.11	20,61
H14-100	102	115	150	450	3.52	20,61
H14-114	114	131	75	225	5.62	20,61
H14-125	127	142	75	225	6.35	20,61
H14-150	152	169	60	180	7.13	20,61
H14-200	203	224	60	180	11.27	10

Heavy Duty Water Delivery Hose

TUBE: black smooth SBR rubber. **REINFORCEMENT:** high tensile textile cords. **COVER:** black/green SBR rubber - abrasion, weather and ozone resistant. **APPLICATION:** multi-purpose water delivery hose. **TEMP. RANGE:** -35°C to 85°C. **STANDARDS:** ISO 1307.



Heavy Duty Water Delivery Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H04-012	12.5	22	150	670	0.34	20,61,125
H04-020	19	28	150	670	0.45	20,61,125
H04-025	25	35	150	670	0.64	20,61,125
H04-032	32	44	150	670	0.98	20,61,125
H04-040	38	50	150	670	1.15	20,61,125
H04-044	44	57	150	670	1.29	20,61,125
H04-050	51	65	150	670	1.77	20,61,125
H04-065	63.5	78	150	460	2.16	20,61
H04-080	76	92	150	460	2.97	20,61
H04-090	89	104	150	460	3.35	20,61
H04-100	102	120	150	460	4.33	20,61
H04-114	114	130	150	460	5.62	20,61
H04-125	127	147	150	460	6.10	20,61
H04-150	152	172	150	460	7.22	20,61

Light-Weight Water Delivery Hose

TUBE: black smooth SBR rubber. **REINFORCEMENT:** high tensile textile cords. **COVER:** black/green SBR rubber - abrasion, weather and ozone resistant. **APPLICATION:** suitable for submersible pumps, irrigation and dewatering, sewer cleaning etc. **TEMP. RANGE:** -40°C to 100°C. **STANDARDS:** ISO 1307

Heavy Duty Water Delivery Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H13-100	102	115	175	525	2.70	20,61
H13-150	152	164	175	525	3.69	20,61
H13-200	203	217	175	525	5.51	20,61
H23-300	305	327	72	217	27.00	10



15.3 :: Rubber Water Hose

Radiator Hose

TUBE: black, smooth, heat resistant SBR rubber. **REINFORCEMENT:** high tensile textile cords. **COVER:** black, smooth, wrapped finish SBR rubber, resistant to heat and oil mist. **APPLICATION:** for general purpose transfer of hot water, anti-freeze etc. in cooling systems. **TEMP. RANGE:** -40°C to 100°C.



Radiator Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)
H15-015	13	20	45	135
H15-016	16	23	45	135
H15-019	19	27	45	135
H15-022	22	29	45	135
H15-025	25	32	45	135
H15-028	28	35	45	135
H15-030	30	38	45	135
H15-032	32	40	45	135
H15-035	35	43	45	135
H15-038	38	47	45	135
H15-040	40	49	45	135
H15-042	42	51	45	135
H15-045	45	55	45	135
H15-048	48	58	45	135
H15-051	51	61	45	135
H15-055	55	65	45	135
H15-058	58	67	45	135
H15-060	60	70	45	135
H15-063	63.5	74	45	135
H15-065	65	75	45	135
H15-070	70	80	45	135
H15-073	73	83	45	135
H15-076	76	85	45	135
H15-080	80	90	45	135
H15-083	83	93	45	135
H15-090	90	100	45	135
H15-102	102	112	45	135
H15-114	114	127	45	135
H15-127	127	140	45	135
H15-140	140	152	45	135
H15-152	152	167	45	135

GP Air/Water Hose (225 Psi)

TUBE: EPDM. **REINFORCEMENT:** spiral synthetic cord. **COVER:** EPDM. **APPLICATION:** general purpose air/water delivery for mining and industry. **TEMP. RANGE:** -20°C to 80°C.

GP Air/Water Hose (225 Psi)

CODE	ID (inches)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)
IF01-015	1/2	150	450
IF01-020	3/4	150	450
IF01-025	1	150	450



Multipurpose Hose (Ortac) (300 Psi)

TUBE: black NBR rubber - high oil resistance. **REINFORCEMENT:** four spiral polyester - kink resistant. **COVER:** synthetic/nitrile (red) - resistant to oils, solvents, abrasion and ozone. **APPLICATION:** suitable for pressure delivery of fuel, oil, compressed air etc. - meets alcoa conductivity specifications. **TEMP. RANGE:** -30°C to 90°C. * 32mm - 50mm in wrapped red cover.

Multipurpose Hose (Ortac) (300 Psi)

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
IF04-006	6.4	12	225	900	0.19	20,213
IF04-008	8	16	225	900	0.22	20,213
IF04-010	10	18	225	900	0.27	20,213
IF04-015	13	22	225	900	0.37	20,213
IF04-016	16	26	225	900	0.52	20,213
IF04-020	19	30	225	900	0.62	20,213
IF04-025	25	38	225	900	0.94	20,213
IF04-032	32	45	225	900	0.95	20,61
IF04-040	38	51	225	900	1.07	20,61
IF04-050	51	63	225	900	1.42	20,61



15.4 :: Extruded Rubber Hose

Fuel Line Hose (SAE 30 R7)

TUBE: black nitrile. **REINFORCEMENT:** high tensile textile cords. **COVER:** black NBR.

APPLICATION: hydro carbon = fuel and oil = delivery = anti-static **TEMP. RANGE:** -30°C to 90°C.



Fuel Line Hose (SAE 30 R7)

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
F10-005	5	12	60 or 300	0.18	15,213
F10-006	6	13	60 or 300	0.20	15,213
F10-008	8	15	60 or 300	0.24	15,213
F10-010	10	17	60 or 300	0.34	15,213
F10-015	12	19	60 or 300		

Single Line Welding Hose

TUBE: black oxy and acetylene resistant. **REINFORCEMENT:** high tensile textile cords.

COVER: abrasion, ozone, weather and flame resistant. red - acetylene, blue- oxygen.

APPLICATION: oxygen/acetylene welding good low temp. flexibility and crush resistant.

TEMP. RANGE: -20°C to 80°C. **STANDARDS:** AS 1335 - 1995



Single Line Welding Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
F15-005	5	12	305	1220	0.18	100
F15-006	6	14.5	305	1220	0.23	100
F15-008	8	16.5	305	1220	0.26	100
F15-010	10	19	305	1220	0.37	100

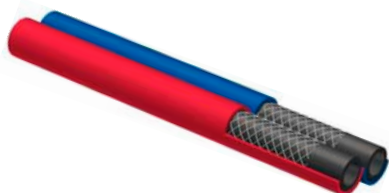
Twin Oxy/Acetylene Weld Hose

TUBE: black oxy and acetylene resistant. **REINFORCEMENT:** high tensile textile cords.

COVER: abrasion, ozone, weather and flame resistant. red - acetylene, blue - oxygen.

APPLICATION: oxy/acetylene welding. good low temp. flexibility and crush resistant.

TEMP. RANGE: -20°C to 80°C. **STANDARDS:** AS 1335 - 1995.



Twin Oxy/Acetylene Weld Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
F16-005	5	12	305	1220	0.32	100

Air Compressor Hose

TUBE: black SBR - oil mist resistant. **REINFORCEMENT:** high tensile textile cords. **COVER:** SBR rubber - weather and abrasion resistant. **APPLICATION:** air compressor hose for industry, construction and mining. **TEMP. RANGE:** -35°C to 85°C. **STANDARDS:** ISO 1307

Air Compressor Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H01-015	12.5	20	200	590	0.24	20,125
H01-020	19	27	150	450	0.38	20,61,125
H01-025	25	35	150	540	0.63	20,61,125
H01-032	32	42	150	450	0.77	20,61,125
H01-040	38	48	150	500	0.91	20,61,125
H01-050	51	61	150	560	1.20	20,61,125
H01-065	63	75	150	450	1.77	20,61
H01-080	75	88	150	560	2.13	20,61
H01-100	102	115	150	450	2.89	20,61
H01-125	127	142	150	450	4.16	20,61
H01-150	152	167	150	450	5.03	20,61



Super Air Hose (Heavy Duty)

TUBE: black SBR - oil mist resistant. **REINFORCEMENT:** high tensile textile cords. **COVER:** black/blue or yellow SBR/EPDM blend - abrasion, ozone and weather resistant. **APPLICATION:** extra heavy duty air/water hose specifically designed for use in severe mining applications. **TEMP. RANGE:** -35°C to 85°C. **STANDARDS:** ISO 1307, BS 5118/2.

Super Air Hose (Heavy Duty)

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H02-012	12.7	23	300	870	0.38	20,61
H02-020	19	32	300	870	0.77	20,61,125
H02-025	25	39	300	1000	0.96	20,61,125
H02-032	32	46	300	820	1.17	20,61,125
H02-040	38	54	300	790	1.60	20,61,125
H02-050	51	69	300	790	2.37	20,61,125
H02-065	63	77	225	650	2.52	20,61
H02-080	76	92	225	780	3.54	20,61
H02-100	102	118	225	590	4.41	20,61



15.5 :: Rubber Air Hose

Steel Wire Air Hose

TUBE: black synthetic rubber - heat and oil resistant. **REINFORCEMENT:** high tensile steel cords. **COVER:** yellow synthetic rubber weather, abrasion and tear resistant.

APPLICATION: high temp. compressed air - specifically for mining, drilling and surveying industry. **TEMP. RANGE:** -40°C to 120°C.



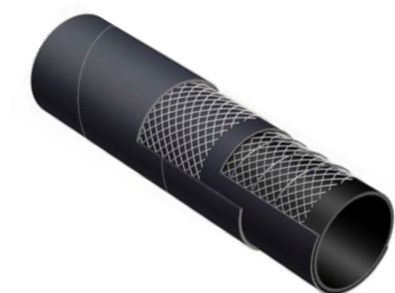
Steel Wire Air Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H03-015	12.7	25	1000	3450	0.51	20,61
H03-020	19	32	750	2510	0.74	20,61
H03-025	25	39	660	2030	0.99	20,61
H03-032	32	48	810	3290	1.45	20,61
H03-040	38	56	660	2700	1.93	20,61
H03-050	51	68	600	2220	2.30	20,61
H03-065	63.5	82.5	470	1760	3.05	20,61
H03-080	76	98	750	3030	4.94	20,61
H03-100	102	127	560	2290	7.13	20,61
H03-125	127	142	150	450	4.16	20,61
H03-150	152	167	150	450	5.03	20,61

Hot Air Blower Hose

TUBE: black heat resistant EPDM rubber. **REINFORCEMENT:** synthetic cord and embedded helix or high tensile steel wire. **COVER:** black corrugated EPDM rubber.

APPLICATION: conveying hot air up to 176°C from compressors to tanks during the transfer of dry bulk materials. **TEMP. RANGE:** -40°C to 176°C.



Hot Air Blower Hose

CODE	ID (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H11-050	51	175	560	2.19	20,61
H11-065	63.5	150	460	2.80	20,61
H11-080	76	120	380	3.55	20,61
H11-100	102	90	295	4.73	20,61
H19-100	102	130	900	2700	10.10

XLPE Acid Suction Hose

TUBE: smooth cross-linked polyethylene. **REINFORCEMENT:** high tensile textile cords plus helix wire spiral, antistatic wire. **COVER:** EPDM rubber - weather, ozone and abrasion resistant. **APPLICATION:** the compounded cross-linked polyethylene tube enables this hose to handle suction and discharge of a wide range of chemicals, petroleum products and oils. **TEMP. RANGE:** -20°C to 100°C. **STANDARDS:** ISO 1307 and DIN 2823 PT.1 FDA

XLPE Acid Suction Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H10-020	19	30	150	600	0.90	20,61
H10-025	25	39	150	600	1.05	20,61
H10-032	32	46	150	600	1.35	20,61
H10-040	38	52	150	600	1.56	20,61
H10-050	51	66	150	600	2.08	20,61
H10-065	63.5	78.5	150	600	2.52	20,61
H10-080	76	94	150	600	3.61	20,61
H10-100	102	120	150	600	4.98	20,61



15.7 :: Steam Hose

Textile Braided Steam Hose

TUBE: black, smooth EPDM rubber. **REINFORCEMENT:** high tensile textile cord (4-Braid).
COVER: wrapped red EPDM rubber. **APPLICATION:** for use with saturated steam at maximum working pressure of 120 psi. **TEMP. RANGE:** -40°C to 170°C. **STANDARDS:** ISO 6134 C1-T1, NFT 47263 C-1 T-1, BS 5122/A TYPE 2 DIN 2825.



Textile Braided Steam Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H05-015	13	25	120	1500	0.48	20,61,125
H05-020	19	32	120	1180	0.58	20,61,125
H05-025	25	38	120	960	0.72	20,61,125
H05-032	32	47	120	1510	1.10	20,61,125
H05-040	38	54	120	1320	1.34	20,61,125
H05-050	51	68	120	1030	1.81	20,61,125
H05-065	63.5	82.5	120	880	2.64	20,61
H05-080	76	96	120	740	3.10	20,61
H05-100	102	122	120	740	4.05	20,61

Steel Braided Steam Hose

TUBE: black, smooth EPDM rubber. **REINFORCEMENT:** plies of steel wire cord (2-Braid). **COVER:** wrapped red EPDM rubber. **APPLICATION:** super heated steam hose for use in refineries, shipyards, chemical plants, steel mills and all industrial applications. **TEMP. RANGE:** -40°C to 232°C. **STANDARDS:** ISO 1307, NFT 47263 CAT 1 TYPE 3, BS 5342 TYPE 2 CLASS A, DIN 2825.



Steel Braided Steam Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H06-015	13	25	250	3090	0.53	20,61,125
H06-016	16	28	250	2820	0.59	20,61,125
H06-020	19	32	250	2500	0.74	20,61,125
H06-025	25	38	250	3970	1.00	20,61,125
H06-032	32	46	250	3090	1.31	20,61,125
H06-040	38	54	250	2500	1.72	20,61,125
H06-050	51	67	250	3090	2.30	20,61
H06-065	63.5	84	250	3380	3.96	20,61
H06-080	76	97	250	2790	4.76	20,61
H06-100	102	124	250	3230	7.02	20,61

Hot Wash Hose :: 15.8

Hot Water Washdown Hose

TUBE: white-heat resistant - NBR rubber. **REINFORCEMENT:** high tensile textile cords.

COVER: white - grease proof - NBR rubber. **APPLICATION:** hot water washdown in dairies, breweries and processing plants, grease proof. **TEMP. RANGE:** -40°C to 100°C.

Hot Water Washdown Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H12-015	13	25	150	500	0.49	20,61,125
H12-020	19	32	150	650	0.65	20,61,125
H12-025	25	39	150	500	0.91	20,61,125
H12-032	32	46	150	450	1.09	20,61
H12-040	38	54	150	450	1.51	20,61
H12-050	51	70	150	530	2.32	20,61



Oil & Petroleum Hose :: 15.9

Dock Oil Hose

TUBE: black, smooth, nitrile rubber. Compounded for excellent resistance to oil and fuels.

REINFORCEMENT: high strength synthetic cords with anti-static wires. **COVER:** black, smooth 'wrapped' finish. High grade rubber, resistant to weather, ozone, abrasives, oil and sea water. **APPLICATION:** light weight yet heavy duty oil discharge hose, ideal for use between docks and barges (bunkering etc). It handles a wide range of petroleum products up to 50% aromatic content. * Recommend 'swaged' ends for these hoses. **TEMP.**

RANGE: -30°C to 100°C.

Dock Oil Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H36-080	76	91	235	700	2.30	Up to 125
H36-100	102	119	235	700	3.26	Up to 125
H36-125	127	146	235	700	4.49	Up to 125
H36-150	152	170	235	700	4.88	Up to 125
H36-200	203	224	235	700	8.01	Up to 60
H36-250	254	278	235	700	10.60	Up to 60



15.10 :: Food Grade Hose

Brewers Delivery Hose

TUBE: white, smooth food grade synthetic rubber. **REINFORCEMENT:** high tensile textile cords. **COVER:** red abrasion resistant SBR/NR/EPDM. **APPLICATION:** liquid, foods and alcoholic beverage discharge. **TEMP. RANGE:** -30°C to 100°C. **STANDARDS:** DM 220 FDA

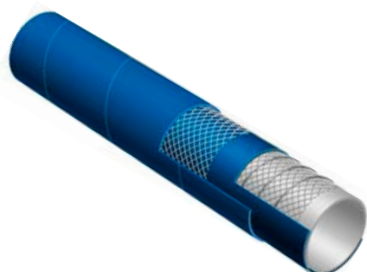


Brewers Delivery Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H07-015	13	22	150	500	0.39	20,61
H07-020	19	30	150	620	0.53	20,61
H07-025	25	38	150	480	0.83	20,61
H07-032	32	48	150	450	1.37	20,61
H07-040	38	55	150	450	1.54	20,61
H07-050	51	69	150	500	2.30	20,61
H07-065	63.5	88	150	450	3.99	20,61
H07-075	76	101	150	470	4.80	20
H07-100	102	132	150	450	7.66	20

Brewers Suction Hose

TUBE: white, smooth food grade synthetic rubber. **REINFORCEMENT:** high tensile textile cords - multiple helix wire. **COVER:** red abrasion resistant NBR/NR/EPDM. **APPLICATION:** liquid food and alcoholic beverage suction and delivery specially designed for edible oil based products. **TEMP. RANGE:** -30°C to 100°C. **STANDARDS:** DM 220 FDA

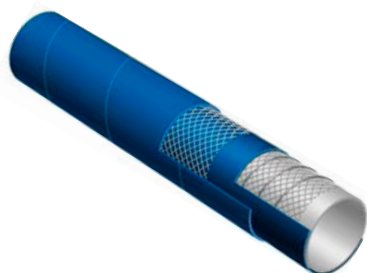


Brewers Delivery Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H08-025	25	38	150	450	0.97	20,61
H08-032	32	45.5	150	480	1.40	20,61
H08-040	38	52	150	450	1.64	20,61
H08-050	51	65	150	510	2.05	20,61
H08-065	63.5	80.5	150	450	3.05	20,61
H08-080	76	93	150	480	3.90	20
H08-100	102	120	150	450	5.39	20

Milk Tanker Hose

TUBE: white, smooth food quality rubber. **REINFORCEMENT:** high tensile textile cords Plus 2 helix wires. **COVER:** white, wrapped rubber, resistant to abrasion and ozone. **APPLICATION:** for suction and delivery of milk and other liquid dairy products, hygienic white tube ensures hose complies to: FDA Standards. **TEMP. RANGE:** -25°C to 80°C. Standards: DM 220 FDA



Milk Tanker Hose

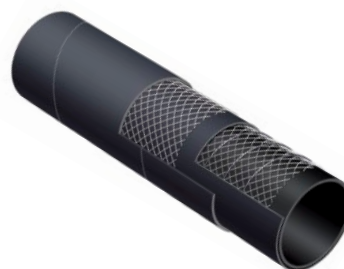
CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H18-040	38	50.6	150	305	1.10	6.1,20
H18-050	51	63.6	150	305	1.48	6.1,20
H18-065	63.5	77.1	150	305	1.86	6.1,20
H18-080	76	90.6	150	305	2.03	6.1,20

Dust Collector Hose

TUBE: extra thick abrasion-resistant natural rubber. **REINFORCEMENT:** high tensile Textile cords, steel helix wires and copper anti-static wires. **COVER:** corrugated SBR rubber: abrasion, ozone and weather resistant. **APPLICATION:** a flexible dust collector hose specially designed for clean-up systems and removal of abrasive materials. **TEMP. RANGE:** -40°C to 70°C.

Dust Collector Hose

CODE	ID (mm)	BEND RADIUS (mm)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H17-050	51	250	1.65	20,61
H17-080	76	400	2.60	20,61
H17-100	102	560	3.60	20
H17-125	127	750	4.80	20
H17-140	140	900	6.80	20
H17-150	152	950	6.90	20
H17-200	203	1300	10.99	20



Sand and Shot Blast Hose

TUBE: black static-conducting NR-abrasion resistant. **REINFORCEMENT:** high tensile textile cords. **COVER:** black SBR/NR - static conducting - abrasion and ozone resistant. **APPLICATION:** sandblast installations designed for long lasting service in heavy duty applications. **TEMP. RANGE:** -35°C to 85°C. **STANDARDS:** ISO 1307.

Sand and Shot Blast Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H21-015	13	33	150	840	0.80	20,61
H21-020	19	40	150	840	1.00	20,61
H21-025	25	48	150	812	1.38	20,61
H21-032	32	55	150	680	1.64	20,61
H21-040	38	64	150	680	2.28	20,61
H21-050	51	76	150	480	2.63	20,61
H21-080	76	103	150	510	4.82	20,61



Mineral Sampling Hose

TUBE: black NR abrasive resistant. **REINFORCEMENT:** high tensile textile cords, multiple helix wire. **COVER:** black NR/SBR - abrasion, ozone and weather resistant. **APPLICATION:** drill rig sampling hose. **TEMP. RANGE:** -35°C to 85°C. **STANDARDS:** ISO 1307.

Mineral Sampling Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H16-065	63.5	95	500	1500	4.72	20,61
H16-080	76	105	500	1500	4.89	20,61
H16-100	102	131	500	1500	6.07	20,61

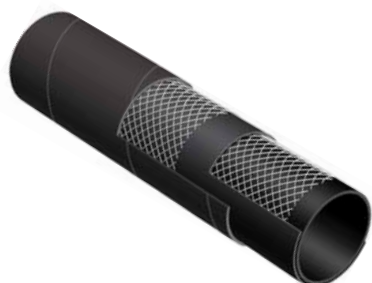


15.11 :: Material Handling Hose

Dry Powder Delivery Hose

TUBE: black SBR/NR - abrasion resistant. **REINFORCEMENT:** high tensile textile cords.

COVER: black SBR-weather, abrasion and ozone resistant. **APPLICATION:** bulk material delivery (dry cement). **TEMP. RANGE:** -35°C to 85°C. **STANDARDS:** ISO 1307.



Dry Powder Delivery Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H37-080	76	92	75	220	2.41	20,61
H37-100	102	118	75	220	3.19	24,61
H37-150	152	172	75	220	5.75	24,61

Steel Concrete Pump Hose (125 BAR)

TUBE: black SBR/NR – abrasion resistant. **REINFORCEMENT:** high tensile steel cords.

COVER: black SBR/NR blend **APPLICATION:** high pressure concrete pumping hose.

TEMP. RANGE: -35°C to 85°C. **STANDARDS:** ISO 134



Steel Concrete Pump Hose (125 BAR)

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)	WEIGHT (kg/m)	ROLL LENGTHS (m)
H39-050	51	68	1800	5400	2.17	20,61
H39-065	63.5	85	1800	5400	3.48	20,61
H39-080	76	144	1800	4544	4.65	20,61
H39-094	90	116	1504	4500	6.01	20,61
H39-100	102	128	1800	4540	6.50	24,61
H39-125	127	155	1804	4540	9,28	20,61
H39-150	152	187	1800	4500	13.98	20,61

This unique coolant hose is made of an inner tube of premium silicone rubber, reinforced with knit or braided polyester. The outer layer of silicone resists the effects of oil splash, Temperature extreme, vibration and gruelling mileage.

Silicone Coolant Hose

CODE	ID (inches ±0.03)	ID (mm ±0.7)	
IDCH1000	1	25.4	
IDCH1125	1 1/8	28.5	
IDCH1250	1 1/4	31.7	
IDCH1375	1 3/8	34.9	
IDCH1500	1 1/2	38.0	
IDCH1750	1 3/4	44.0	
IDCH2000	2	50	
IDCH2250	2 1/4	57.0	
IDCH2500	2 1/2	63.0	
IDCH2750	2 3/4	69.0	
IDCH3000	3	76.0	
IDCH3250	3 1/4	83.0	
IDCH3500	3 1/2	88.0	
IDCH4000	4	100.0	
IDCH4500	4 1/2	114.3	
IDCH5500	5 1/2	140.0	



Silicone Heater Hose

CODE	ID (mm)	OD (mm)	WORKING PRESSURE (PSI)	ROLL LENGTHS (m)
IDHH250	1/4	6.3	4823	757
IDHH313	5/16	7.9	4478	757
IDHH375	3/8	9.5	3445	757
IDHH500	1/2	12.7	3100	730
DH H625	5/8	15.7	2067	689
IDHH750	3/4	19.0	2067	516
IDHH875	7/8	22.0	1722	344
IDHH1000	1	25.4	1722	344



15.12 :: Silicone Hose



Silicone Elbow

CODE	SIZE (inches)	
IDHE015	1/2	
IDHE016	5/8	
IDHE020	3/4	
IDHE025	1	
IDHE032	1 1/4	
IDHE040	1 1/2	
IDHE045	45NB	
IDHE050	2	
IDHE060	60NB	
IDHE065	2 1/2	
IDHE080	3	
IDHE090	90NB	
IDHE100	4	



Silicone Hump - 100NB

CODE	SIZE (inches)	
IDCH H100		
IDCH H150		
IDCH H200		
IDCH H250		
IDCH H300		

Composite Hose :: 15.3

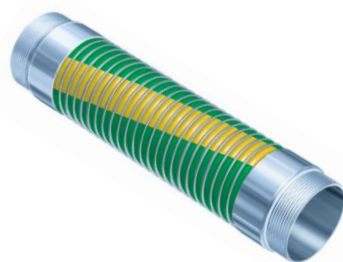
Composite Grey

SIZE (mm)	CODE	
50	GREY 051	
76	GREY 076	
100	GREY 100	



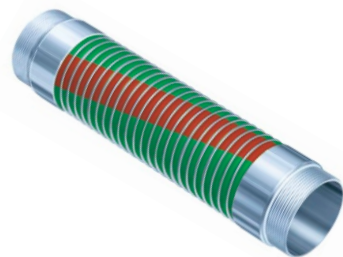
Composite Green

SIZE (mm)	CODE	
50	GREEN 051	
76	GREEN 076	
100	GREEN 100	

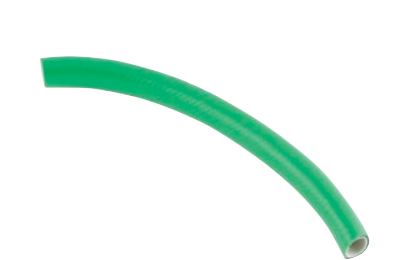


Composite Green HD

SIZE (mm)	CODE	
50	GREEN HD 051	
76	GREEN HD 076	
100	GREEN HD 100	



15.14 :: PVC Hose



Safety "S" Air / Water

SIZE (mm)	CODE	
6	A01 006	
8	A01 008	
10	A01 010	
12	A01 012	
20	A01 020	
25	A01 025	
32	A01 032	
38	A01 038	
50	A01 050	

Air

CODE	DESCRIPTION
A02 006	6mm BLUE FLEX AIR
A02 008	8mm BLUE FLEX AIR
A02 010	10mm BLUE FLEX AIR
A02 012	12mm BLUE FLEX AIR
A02 020	¾ CHEM-AIR LINE HOSE
A02 050	51mm BLUE FLEX AIR
A02 PU008	5/16 PU AIR HOSE
A02 PU06	¼ PU AIR HOSE
A02 PU10	3/8 PU AIR HOSE
A02 PU12	½ PU AIR HOSE

Special Clear

SIZE (mm)	CODE	
5	A03 005	
6	A03 006	
8	A03 008	
10	A03 010	
12	A03 012	
16	A03 016	
20	A03 020	
25	A03 025	
32	A03 032	
38	A03 038	
50	A03 050	

Turfmaster Green Hose

SIZE (mm)	CODE	
½"	A05 012	
20	A05 020	
25	A05 025	

White Washdown

SIZE (mm)	CODE	
12	A06 015	
20	A06 020	
25	A06 025	
32	A06 032	
38	A06 038	

Hotwash White

SIZE (mm)	CODE	
12	A08 012	
20	A08 020	
25	A08 025	

CVT Clear

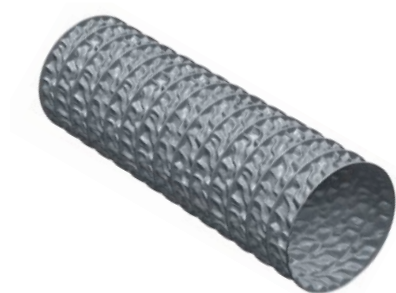
SIZE (mm)	CODE	
3	A15 003	
5	A15 005	
6	A15 006	
8	A15 008	
10	A15 010	
12	A15 012	
16	A15 016	
20	A15 020	
25	A15 025	
32	A15 032	
38	A15 038	
50	A15 050	

White Washdown

SIZE (NB)	CODE	
	A06 015	
20	IA06 020	
25	IA06 025	
32	IA06 032	
40	IA06 040	
50	IA06 050	



15.15 :: Ducting



Thermo Duct

SIZE (NB)	CODE	
50	IJ13 050	
60	IJ13 060	
76	IJ13 076	
100	IJ13 100	
125	IJ13 125	
150	IJ13 150	
180	IJ13 180	
200	IJ13 200	
250	IJ13 250	
300	IJ13 300	

PU Anti-static Duct

SIZE (NB)	CODE	
50	IJ14 050A	
63	IJ14 063A	
75	IJ14 075A	
100	IJ14 100A	
125	IJ14 125A	
150	IJ14 150A	
180	IJ14 180A	
200	IJ14 200A	

TPR Ducting

SIZE (NB)	CODE	
40	IJ20 040	
50	IJ20 050	
65	IJ20 065	
80	IJ20 080	
90	IJ20 090	
100	IJ20 100	
125	IJ20 125	
150	IJ20 150	
180	IJ20 180	
200	IJ20 200	
250	IJ20 250	
300	IJ20 300	

Seeder

SIZE (mm)	CODE	DESCRIPTION
80NB	B07 080	AIR SEEDER
25	B08 025	OPAQUE SEEDER TUBING LDPE
32	B08 032	OPAQUE SEEDER TUBING LDPE
25	B09 025	SPA HOSE
32	B09 038	SPA HOSE

**Medium Duty Suction**

SIZE (mm)	CODE	
20	B20 020	
25	B20 025	
32	B20 032	
38	B20 038	
44	B20 044	
50	B20 050	
63	B20 063	
75	B20 075	
100	B20 100	
150	B20 150	

**Super Elastic Suction**

SIZE (mm)	CODE	
25	B21 025	
32	B21 032	
38	B21 038	
50	B21 050	
63	B21 063	
75	B21 075	
100	B21 100	



15.16 :: PVC Suction



Helisteel Clear

SIZE (mm)	CODE	
10	B22 010	
12	B22 012	
16	B22 016	
20	B22 020	
25	B22 025	
32	B22 032	
38	B22 038	
44	B22 044	
50	B22 050	
63	B22 063	
75	B22 075	
100	B22 100	
125	B22 125	
150	B22 150	



Heavy Duty Suction

SIZE (mm)	CODE	
25	B25 025	
32	B25 032	
38	B25 038	
50	B25 050	
63	B25 063	
75	B25 075	
100	B25 100	
125	B25 125	
140	B25 140	
150	B25 150	



Medium Duty Food Suction

SIZE (mm)	CODE	
2"	B26 050	VACUPRESS FOOD STANDARD DUTY
25	B27 025	
32	B27 032	
38	B27 038	
50	B27 050	
63	B27 063	
75	B27 075	
90	B27 090	
100	B27 100	
150	B27 150	

Wine Suction Heavy Duty

SIZE (mm)	CODE	
25	B28 025	
32	B28 032	
38	B28 038	
50	B28 050	
63	B28 063	
75	B28 075	
100	B28 100	



Oil Suction

SIZE (mm)	CODE	
20	B29 020	
25	B29 025	
32	B29 032	
38	B29 038	
50	B29 050	
63	B29 063	
75	B29 075	
100	B29 100	
150NB	B29 150	BLUE PVC SUCTION HOSE
150	B29 150	



S266 White Sanitation

SIZE (mm)	CODE	
19	B30 020	
25	B30 025	
38	B30 038	



15.17 :: Layflat Hose



Blue

SIZE (NB)	CODE	
25	IC01 025	
32	IC01 032	
40	IC01 040	
50	IC01 050	
65	IC01 065	
80	IC01 080	
100	IC01 100	
150	IC01 150	
200	IC01 200	



Red

SIZE (mm)	CODE	
25	IC03 025	
32	IC03 032	
40	IC03 040	
50	IC03 050	
65	IC03 065	
80	IC03 080	
100	IC03 100	
150	IC03 150	
200	IC03 200	



Excalibur Fire Hose

SIZE (mm)	CODE	
40	C10 040	CLASS M
51	C10 050	CLASS M
65	C10 065	
80	C10 080	
100	C10 100	

W4 - Stainless Steel

CODE	CLAMPING RANGE (mm)	
R701 019	17 – 19	
R701 021	19 – 21	
R701 023	21 – 23	
R701 025	23 – 25	
R701 027	25 – 27	
R701 029	27 – 29	
R701 031	29 – 31	
R701 034	31 – 34	
R701 037	34 – 37	
R701 040	37 – 40	
R701 043	40 – 43	
R701 047	43 – 47	
R701 051	47 – 51	
R701 055	51 – 55	
R701 059	55 – 59	
R701 063	59 – 63	
R701 068	63 – 68	
R701 073	68 – 73	
R701 079	73 – 79	
R701 085	79 – 85	
R701 091	85 – 91	
R701 097	91 – 97	
R701 104	97 – 104	
R701 112	104 – 112	
R701 121	112 – 121	
R701 130	121 – 131	
R701 139	131 – 140	
R701 148	140 – 149	
R701 161	149 – 162	
R701 174	162 – 175	
R701 187	175 – 188	
R701 200	188 – 201	
R701 213	201 – 214	
R701 226	214 – 227	
R701 239	227 – 240	
R701 252	240 – 253	
R701 265	253 – 266	
R701 278	266 – 279	
R701 291	279 – 292	
R701 304	292 – 304	
R701 317	304 – 330	
R701 330	304 – 330	



15.19 :: Worm Drive Hose Clamps



W3 - Stainless Steel

CODE	CLAMPING RANGE (mm)	BAND WIDTH (mm)	PACK QUANTITY
722 0816	8 – 16	9	10
722 1220	12 – 20	9	10
722 1625	16 – 27	9	10
722 2032	20 – 32	13	10
722 2540	25 – 40	13	10
722 3250	32 – 50	13	10
722 4060	40 – 60	13	10
722 5070	50 – 70	13	10
722 6080	60 – 80	13	5
722 7090	70 – 90	13	5
722 8010	80 – 100	13	5
722 9011	90 – 110	13	5
722 9112	100 – 120	13	5
722 9113	110 – 130	13	5
722 9114	120 – 140	13	5
722 9115	130 – 150	13	5
722 9116	140 – 160	13	5
722 9117	150 – 170	13	5
722 9118	160 – 180	13	5
722 9200	180 – 200	13	5
722 9230	210 – 230	13	5
722 9250	230 – 250	13	5
722 9280	260 – 280	13	5
722 9300	280 – 300	13	5

Flexidriver

CODE	HEAD SIZE	DESCRIPTION
724 0000	7mm	FLEXI-SHAFT SCREW-DRIVER



O-Clip

CLAMPING RANGE (mm)	TUBE O.D. (inches)	GALVANISED	STAINLESS STEEL
3 – 5	$\frac{3}{16}$	715 0305	
5 – 7	$\frac{1}{4}$	715 0507	
7 – 9	$\frac{5}{16}$	715 0709	
9 – 11	$\frac{7}{16}$	715 0911	
11 – 13	$\frac{1}{2}$	715 1113	
13 – 15	$\frac{9}{16}$	715 1315	
15 – 17	$\frac{5}{8}$	715 1517	
17 – 20	$\frac{3}{4}$	715 1720	
20 – 23	$\frac{7}{8}$	715 2023	
22 – 25	$\frac{5}{16}$	715 2225	
23 – 27	1	715 2327	
25 – 28	1 - $\frac{1}{16}$	715 2528	
28 – 31	1 - $\frac{3}{16}$	715 2831	
31 – 34	1 - $\frac{5}{16}$	715 3134	
34 – 37	1 - $\frac{7}{16}$	715 3437	
37 – 40	1 - $\frac{1}{2}$	715 3740	

**O-Clip Pincers**

CODE	DESCRIPTION
715 000	



15.21 :: Band Clamps



Bandit Clamping

CODE	SIZE (mm)	ROLL LENGTH (m)	
726 010	10	30	
726 015	13	30	
726 016	16	30	
726 020	19	30	

Bandit Buckles

CODE	SIZE (mm)	BOX QUANTITY	
727 010	10	100	
727 015	13	100	
727 016	16	100	
727 020	19	100	

Bandit Clamping Tool

CODE	DESCRIPTION
726 001	TIGHTENING AND CUTTING TOOL

Worm Drive Banding

CODE	TYPE	SIZE (mm)	ROLL LENGTH (m)
724	STAINLESS STEEL	13	30
724	MILD STEEL	13	30

Worm Drive Buckles

CODE	TYPE	SIZE (mm)	BOX QUANTITY
724	STAINLESS STEEL	13	50
724	MILD STEEL	13	50

Double Bolt Hose Clamps :: 15.22

Double Bolt

RANGE (mm)	CODE	
28 – 34	I801 034	
32 – 40	I801 040	
39 – 49	I801 049	
48 – 60	I801 060	
60 – 76	I801 076	
77 – 94	I801 094	
102 – 115	I801 115	
108 – 125	I801 525	
114 – 128	I801 550	
151 – 165	I801 675	
209 – 225	I801 875	



Safety Double Bolt

RANGE (mm)	CODE	
22 – 29	I802 029	
28 – 34	I802 034	
32 – 40	I802 040	
39 – 49	I802 049	
48 – 60	I802 060	
77 – 94	I801 094	
102 – 115	I801 115	
108 – 125	I801 525	
114 – 128	I801 550	
151 – 165	I801 675	
209 – 225	I801 875	



15.23 :: Pipe Clamps

Stauff Pipe Clamps

One of the most popular pipe clamp systems available. Stauff clamp applications are unlimited. Due to the extra ordinary wide program range, all areas of pipe, tube and hose installation are covered: industrial hydraulics. Mobile hydraulics, marine hydraulics. General pipe construction, mining, instrumentation and control technology, pneumatics.

Every hole diameter from 6mm to 406mm is covered in either single hole or double hole clamps.

When ordering please specify that you require plates and bolts with your shells.

Stauff clamps are sold in 'pairs' (i.e. 2 halves)



Stauff Pipe Clamps

CODE	TYPE	SIZE RANGE (mm)	
717	SINGLE HOLE	6 – 406	
718	DOUBLE HOLE	6 – 406	



U Bolts

SIZE (inches)	GALVANISED	STAINLESS STEEL	
½	441 015	441 SS015	
¾	441 020	441 SS020	
1	441 025	441 SS025	
1¼	441 032	441 SS032	
1½	441 040	441 SS040	
2	441 050	441 SS050	
2½	441 065	441 SS065	
3	441 080	441 SS080	
4	441 100		
5	441 125		
6	441 150		
8	441 200		

A

TECHNICAL DATA & GLOSSARY

TECHNICAL DATA & GLOSSARY

Conversion Tables

TEMPERATURE CONVERSION

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
-40	-40	-10	14	20	68	50	122	80	176	110	230	140	284
-39	-38.2	-9	15.8	21	69.8	51	123.8	81	177.8	111	231.8	141	285.8
-38	-36.4	-8	17.6	22	71.6	52	125.6	82	179.6	112	233.6	142	287.6
-37	-34.6	-7	19.4	23	73.4	53	127.4	83	181.4	113	235.4	143	289.4
-36	-32.8	-6	21.2	24	75.2	54	129.2	84	183.2	114	237.2	144	291.2
-35	-31	-5	23	25	77	55	131	85	185	115	239	145	293
-34	-29.2	-4	24.8	26	78.8	56	132.8	86	186.8	116	240.8	146	294.8
-33	-27.4	-3	26.6	27	80.6	57	134.6	87	188.6	117	242.6	147	296.6
-32	-25.6	-2	28.4	28	82.4	58	136.4	88	190.4	118	244.4	148	298.4
-31	-23.8	-1	30.2	29	84.2	59	138.2	89	192.2	119	246.2	149	300.2
-30	-22	0	32	30	86	60	140	90	194	120	248	150	302
-29	-20.2	1	33.8	31	87.8	61	141.8	91	195.8	121	249.8	151	303.8
-28	-18.4	2	35.6	32	89.6	62	143.6	92	197.6	122	251.6	152	305.6
-27	-16.6	3	37.4	33	91.4	63	145.4	93	199.4	123	253.4	153	307.4
-26	-14.8	4	39.2	34	93.2	64	147.2	94	201.2	124	255.2	154	309.2
-25	-13	5	41	35	95	65	149	95	203	125	257	155	311
-24	-11.2	6	42.8	36	96.8	66	150.8	96	204.8	126	258.8	156	312.8
-23	-9.4	7	44.6	37	98.6	67	152.6	97	206.6	127	260.6	157	314.6
-22	-7.6	8	46.4	38	100.4	68	154.4	98	208.4	128	262.4	158	316.4
-21	-5.8	9	48.2	39	102.2	69	156.2	99	210.2	129	264.2	159	318.2
-20	-4	10	50	40	104	70	158	100	212	130	266	160	320
-19	-2.2	11	51.8	41	105.8	71	159.8	101	213.8	131	267.8	161	321.8
-18	-0.4	12	53.6	42	107.6	72	161.6	102	215.6	132	269.6	162	323.6
-17	1.4	13	55.4	43	109.4	73	163.4	103	217.4	133	271.4	163	325.4
-16	3.2	14	57.2	44	111.2	74	165.2	104	219.2	134	273.2	164	327.2
-15	5	15	59	45	113	75	167	105	221	135	275	165	329
-14	6.8	16	60.8	46	114.8	76	168.8	106	222.8	136	276.8	166	330.8
-13	8.6	17	62.6	47	116.6	77	170.6	107	224.6	137	278.6	167	332.6
-12	10.4	18	64.4	48	118.4	78	172.4	108	226.4	138	280.4	168	334.4
-11	12.2	19	66.2	49	120.2	79	174.2	109	228.2	139	282.2	169	336.2

LENGTH CONVERSION

INCH	DECIMAL	MILLIMETER
1/64	0.02	0.40
1/32	0.03	0.80
1/16	0.06	1.59
1/8	0.13	3.18
3/16	0.19	4.76
1/4	0.25	6.35
5/16	0.31	7.94
3/8	0.38	9.53
7/16	0.44	11.11
1/2	0.50	12.70
9/16	0.56	14.29
5/8	0.63	15.88
1 1/16	0.69	17.46
3/4	0.75	19.05
1 3/16	0.81	20.64
7/8	0.88	22.23
1 5/16	0.94	23.88
1	1.00	25.40
1 1/4	1.25	31.75
1 1/2	1.5	38.1
1 3/4	1.75	44.45
2	2	50.8
2 1/4	2.25	57.15
2 1/2	2.5	63.5
2 3/4	2.75	69.85
3	3	76.2
3 1/4	3.25	82.55
3 1/2	3.5	88.9
3 3/4	3.75	95.25
4	4	101.6
4 1/4	4.25	107.95
4 1/2	4.5	114.3
4 3/4	4.75	120.65
5	5	127
5 1/4	5.25	133.35
5 1/2	5.5	139.7
5 3/4	5.75	146.05
6	6.00	152.4

MASS CONVERSION

KILOGRAMS (kg)	POUNDS (lbs)
1	2.21
2	4.41
3	6.62
4	8.82
5	11.03
6	13.23
7	15.44
8	17.64
9	19.85
10	22.05
15	33.08
20	44.10
25	55.13
30	66.15
35	77.18
40	88.20
45	99.23
50	110.25
55	121.28
60	132.30
65	143.33
70	154.35
75	165.38
80	176.40
85	187.43
90	198.45
95	209.48
100	220.50
150	330.75
200	441.00
300	661.50
400	882.00
500	1102.50
600	1323.00
700	1543.50
800	1764.00
900	1984.50
1000	2205.00

Glossary

ANSI	American National Standards Institute (Usually used as a dimensional spec for pipe and fittings and flanges, eg, Pipe to ANSI B36.10, Flanges to ANSI Class 150)	PE	Plain ends, (term commonly used in commercial pipe, pipe nipples and swaged nipple to denote end prep)
API	American Petroleum Institute (petroleum spec that covers material composition etc, commonly used to describe ERW welded Linepipe, eg; API 5L B)	PI	Pressure indicator
ASA	American Standards Association (Dimensional spec, commonly used to describe American flange table, eg; ASA Class 150	PN	Pressure Nominale, also commonly used to describe the "around about" working pressure of a fitting or flange.
ASME	American Society of Mechanical Engineers (a specification commonly used to specify Valves for use in chemical / pressure services)	PSI	Pounds per square inch, an imperial pressure measurement. (1 Psi equals 6.895 Kpa or 0.00689 MPa)
ASTM	American Society for testing and materials (commonly used to describe the material a pipe or fitting is made of, eg; ASTM A106-B Seamless Linepipe or ASTM A105 Flanges)	RF	Raised face, describes the face of a flange 3
BBE	Bevelled both ends (term commonly used in pipe nipples and swaged nipple to denote end prep)	SBE	Screwed Both Ends, (term commonly used in commercial pipe, pipe nipples and swaged nipple to denote end prep)
BE	Bevelled end, as in the end of a pipe or fitting is already initially prepped with a bevel, for butt welding	Schedule (or Wt)	The Wall thickness of a given pipe. Note - the thickness of a given schedule is not consistent throughout all diameters, although over 300mm Std Wt is always 9.53mm and XS is always 12.7mm. Std Wt - is the same weight or wall thickness as Sch40 up to and including 250mm and XS - is the same as Sch80 up to and including 200mm XXS = double extra strong.
BOE	Bevel one end (term commonly used in pipe nipples and swaged nipple to denote end prep)	SE	Screwed ends, commonly used to describe a valve or even pipe end connections
BSP	British Standard Parallel Thread. A type of Male Taper-Female Parallel thread used in most low pressure fittings and valves, this is the most common thread in Australia, and is used in most general plumbing, air, water, low pressure applications, on AS1074 Pipe, Gal Mal, Brass, Black Steel fittings	Seamless v Welded Pipe	2 totally different forms of manufacturing of pipe, there are no seamless pipe mills in Australia, hence all our seamless is imported. Welded pipe does not have as high a pressure / temperature rating as seamless (usually 10% less) and cannot be substituted for seamless in every application. But welded is usually cheaper and is often used in more structural fabrications, as it often has a higher yield strength than seamless pipe.
BW	Butt weld (term often used to cover a wide range of fittings prepped with a bevelled edge for welding)	SOE	Screwed One End, (term commonly used in commercial pipe, pipe nipples and swaged nipple to denote end prep)
Class or PN (Pressure Nominal)	A system used to categorise usually flanges, according to pressure retaining capabilities. eg; ANSI Class 150 Flange Concentric (generally for reducing on the vertical plane)	SOW	Slip on Weld, a type of flange that slips over a pipes OD and it welded on, does not require the wall thickness of the pipe, as it only goes over the OD.
Cpl	Coupling, also known as a socket or joiner (generally we call this fitting in a 3000# or 6000# a coupling, and as a Black steel or Gal-mal fitting a socket)	SR	Short radius, commonly used to describe Butt-weld elbows, (it has a 1x the OD radius) (Long radius is by far the most common type of elbow)
Ecc	Eccentric (generally for reducing on the horizontal plane)	Std Wt	Standard Wall Thickness. From the general pipe dimensional standards of ANSI. Although "Wt" stands for wall thickness, because Wt. could also read as Weight, over the years industry has just called it Standard Weight.
ERW	Electric Resistance Weld (a process of welding pipe. It is the common term for welded pipe to API 5L B standards)	Street Elbows	Male - Female Threaded Elbow (also known as an M&F Elbow)
F&F	Female to Female, threaded end connections	SW (fitting)	Socket weld, type of end connection where the pipe partially slides inside the fitting or valve and is welded on. Used for a high pressure 3000# or 6000# fittings or valves, generally in the petroleum industry.
FE	Flanged Ends	SW (flange)	Socket Weld flange, a type of flange that is like a slip on flange but has an internal lip that stops the flange slipping right over the pipe. Does require the wall thickness of the pipe, as the thickness of the internal lip has to match the pipe it is butting up with.
FF	Full or Flat Face	Tapered Thread	Gives tighter seal, for fitting can be used in conjunction with parallel thread or with another taper thread
LR	Long radius (commonly used in Butt-weld elbows, it has a 1.5 x the OD radius. Long radius is by far the most common type of elbow)		
M&F	Male to Female, threaded end connections		
NB	Nominal Bore, which really means 'around about' size of the bore. Used to quickly describe standard pipe dimensions. It is not the actual ID or the OD.		
NPT	National Pipe Thread, a type of Taper-Taper thread used in 3000# and 6000# high pressure fittings and valves, generally used in the petroleum field.		
Parallel Thread	Parallel threaded, (a continuous thread with no taper) generally use with a taper thread or with a tape or sealant to make seal.		
PBE	Plain both ends, (term commonly used in commercial pipe, pipe nipples and swaged nipple to denote end prep)		

Notes

A large grid of dots for taking notes, consisting of 20 columns and 30 rows of small, light gray dots.

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JUNE 2015



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