

HISPEED®



MORE FOCUS, MORE PROFESSIONAL

Hispeed is a company specialized in providing stainless steel grooved couplings and fittings including grooved fittings and press fittings which are used for water treatment, fire protection, drinking water, oil and gas, heating & power, HVAC system, medicine & food and so on,

After year by year experience, the production technology is more and more matured, so far we can provide coupling from 2" to 16" and press fittings from 1/2"-6".

Why choose press fittings stainless steel & press fittings and grooved products.

- *Easy & fast to install & long service life
- *Wide range of applications
- *Green health & Environmental protection
- *Excellent corrosion resistance & Low cost of labour
- *Experienced designing technology
- *Complete product specifications and types
- *Super cost-effective price
- *Perfect service and quality



Stainless Steel Series Hi speed offers a full range of stainless steel grooved mechanical couplings in CF8 (304) and CF8M (316) for general service applications and in specialty alloys for applications including reverse osmosis and desalination systems. Grooved fittings are available in sizes from 1" (25 mm) to 24" (600 mm) produced in a combination of investment castings and wrought stainless.

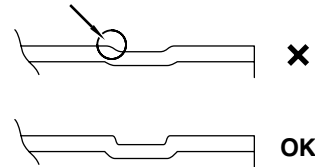


The design pressure rating of **Hispeed** stainless steel grooved couplings follows Class 150 and is based on roll grooved Sch. 40S pipe. Pressure ratings will vary depending on the type of pipe used and grooves processed. For example; for cut grooved Sch. 40S pipe - apply 110%, for roll grooved Sch.10S pipe - apply 80% and for roll-grooved Sch. 5S pipe - apply 50%. **Hispeed** Model SS500 and Model SS600 are designed for high pressure applications for use with cut-grooved Sch. 40S and or Sch. 80S pipe with pressures expressed in CWP.

Hispeed SS couplings can be used in conjunction with stainless steel pipe, depending on the application, as the flow media does not come in direct contact with coupling housings but rather only the gasket.

Stainless steel pipe in general is more difficult to groove than carbon steel pipe, as it is more difficult to achieve defined groove corners on stainless pipe. Grooves that are not defined and have too much of a radius could result in joint failure. Care must be taken to process grooves as defined as possible. For this reason, roll-groove machine manufacturers offer a variety of roll sets depending on the pipe material and wall thickness being grooved. Always select the correct roll set for the pipe being grooved.

Groove corners are not defined



CAUTION If the same roll-set that has been used for carbon steel pipe is used on stainless steel pipe, rust or scale may be transferred to the stainless steel pipe during processing of the groove. Thus we recommend the use of a separate roll set specifically for use with stainless steel pipe. Also use caution to keep roll grooved stainless steel pipe dry prior to installation.

Stainless Steel Casting Specifications

Grade (UNS)	Austenitic Stainless Steel			Duplex (Austenitic / Ferritic) Stainless Steel		
	CF8 J92600	CF8M J92900	CK3MCuN J93254	2A, CE8MN J93345	4A, CD3MN J92205	5A, CE3MN J93404
Composition, % (max, except where range is given)						
Carbon	0.08	0.08	0.025	0.08	0.03	0.03
Manganese	1.50	1.50	1.20	1.00	1.50	1.50
Silicon	2.00	1.50	1.00	1.50	1.00	1.00
Sulfur	0.040	0.040	0.010	0.040	0.020	0.040
Phosphorus	0.040	0.040	0.045	0.040	0.040	0.040
Chromium	18.0-21.0	18.0-21.0	19.5-20.5	22.5-25.5	21.0-23.5	24.0-26.0
Nickel	8.0-11.0	9.0-12.0	17.5-19.5	8.0-11.0	4.5-6.5	6.0-8.0
Molybdenum	0.50	2.0-3.0	6.0-7.0	3.0-4.5	2.5-3.5	4.0-5.0
Nitrogen			0.18-0.24	0.10-0.30	0.10-0.30	0.10-0.30
Copper			0.50-1.00		1.00	
Tensile Requirements, min.						
Tensile Strength, ksi (MPa)	70 (485)	70 (485)	80 (550)	95 (655)	90 (620)	100 (690)
Yield Strength, ksi (MPa)	30 (205)	30 (205)	38 (260)	65 (450)	60 (415)	75 (515)
Elongation, %	35	30	35	25	25	18
ASTM Standards	A351/ A743/A744	A351/A743/A744	A351/A743/A744	A890/A351	A890	A890
Wrought Equivalent Grade	304	316	254SMO*	45D*	2205	SAF 2507*

* 254SMO is a registered trademark of AvestaPolarrit AB, 45D is a registered trademark of ESCO Corporation and SAF 2507 is a registered trademark of AB Sandvik Steel.

MODEL

HJ-A RIGID COUPLING -

Angle-Pad Design -

The Hispeed Model HJ-A is an angle-pad design stainless steel coupling for use with Sch. 5S, Sch. 10S or Sch. 40S stainless steel pipe where a rigid connection is desired. The angle-pad design allows the coupling housings to slide along the bolt pads when tightened. The result is an offset clamping action which provides a rigid joint which resists so called 'snaking' of a long straight run. With the removal of only one

bolt you can make a fast and easy "swing-over" installation. The HJ-A couplings are comprised of two identical CF8 (304) or CF8M (316) housing segments, EPDM gaskets and stainless steel track bolts and heavy duty nuts.

The Hispeed Model HJ-A is available with a standard "C" shaped or GapSeal® gasket in a variety of grades to meet your specific service requirements.



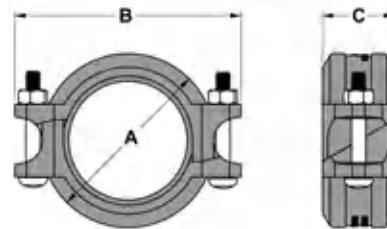
Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-Grooved)	Max. Service Temperature
Class 150	300 psi @100°F 20 Bar @38°C	EPDM: 230°F / 110°C Nitrile: 180°F / 82°C

*The working pressure shown is based on roll-grooved Sch. 40S pipe. Apply 110% for cut-grooved Sch. 40S pipe. Apply 80% for roll-grooved Sch. 10S pipe and 50% for roll-grooved Sch. 5S pipe.

*Proof test pressure: 1.5 times the working pressure, non-shock cold water.

*Burst pressure is engineered minimum 3 times the working pressure.



Nominal Size mm / in	Pipe O. D. mm / in	Max. Working Pressure Bar/PSI	Max. End Load kN / Lbs	Axial Displacement mm / in	Dimensions			No.	Bolts Size		Weight Kgs / Lbs
					A mm / in	B mm / in	C mm / in		mm / in		
32	42.2	20	2.80	0 ~ 1.2	66	102	46	2	M10 x 55	0.6	
1¼	1.660	300	650	0 ~ 0.05	2.60	4.00	1.81		¾ x 2½	1.4	
40	48.3	20	3.66	0 ~ 1.2	72	109	46	2	M10 x 55	0.7	
1½	1.900	300	850	0 ~ 0.05	2.83	4.29	1.81		¾ x 2½	1.5	
50	60.3	20	5.71	0 ~ 1.7	85	117	47	2	M10 x 70	0.8	
2	2.375	300	1330	0 ~ 0.07	3.35	4.61	1.85		¾ x 2¾	1.7	
65	73.0	20	8.37	0 ~ 1.7	98	132	47	2	M10 x 70	0.9	
2½	2.875	300	1950	0 ~ 0.07	3.86	5.20	1.85		¾ x 2¾	2.1	
76.1mm	76.1	20	9.09	0 ~ 1.7	100	136	47	2	M10 x 70	1.0	
	3.000	300	2120	0 ~ 0.07	3.94	5.35	1.85		¾ x 2¾	2.2	
80	88.9	20	12.41	0 ~ 1.7	113	148	48	2	M10 x 70	1.2	
3	3.500	300	2080	0 ~ 0.07	4.45	5.83	1.88		¾ x 2¾	2.6	
100	114.3	20	20.51	0 ~ 4.1	146	182	53	2	M10 x 70	1.9	
4	4.500	300	4770	0 ~ 0.16	5.75	7.17	2.09		¾ x 2¾	4.1	
139.7mm	139.7	20	30.64	0 ~ 4.1	173	227	53	2	M12 x 75	2.6	
	5.500	300	7120	0 ~ 0.16	6.81	8.94	2.09		½ x 3	5.7	
125	141.3	20	31.35	0 ~ 4.1	175	229	53	2	M12 x 75	2.6	
5	5.563	300	7290	0 ~ 0.16	6.89	9.02	2.09		½ x 3	5.7	
165.1mm	165.1	20	42.80	0 ~ 4.1	200	246	54	2	M12 x 75	3.1	
	6.500	300	9950	0 ~ 0.16	7.87	9.69	2.13		½ x 3	6.8	
150	168.3	20	44.47	0 ~ 4.1	203	249	54	2	M12 x 75	3.1	
6	6.625	300	10340	0 ~ 0.16	8.00	9.80	2.13		½ x 3	6.8	
200	219.1	20	75.37	0 ~ 4.8	264	330	64	2	M16 x 135	6.1	
8	8.625	300	17520	0 ~ 0.19	10.40	12.99	2.52		¾ x 5 5/16	13.4	
200 JIS	216.3	20	73.45	0 ~ 4.8	260	340	64	2	M20 x 120	7.4	
	8.516	300	17080	0 ~ 0.19	10.24	13.39	2.50		¾ x 4¾	16.2	

MODEL

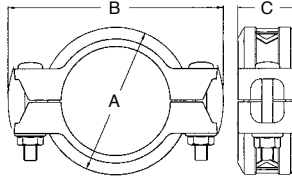
HJ-1 STAINLESS STEEL RIGID COUPLING

The Model HJ-1 is a tongue and groove rigid coupling designed for a variety of moderate service pressure applications. The HJ-1 is supplied standard in CF8 (304) and CF8M (316) with 304 and 316 bolts and nuts. the couplings should always be installed so that the coupling bolt pads make metal to metal contact.

Pressure-Temperature Rating

Nom. Rating	Working Pressure (S40S, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @100°F 20 Bar @38°C	EPDM: 230°F / 110°C Nitrile: 180°F / 82°C

*The working pressure shown is based on roll-grooved Sch. 40S pipe. Apply 110% for cut-grooved Sch. 40S pipe. Apply 80% for roll-grooved Sch. 10S pipe and 50% for roll-grooved Sch. 5S pipe.
*Proof test pressure: 1.5 times the working pressure, non-shock cold water.
*Burst pressure is engineered minimum 3 times the working pressure.



Nominal Size mm/in	Pipe O.D. mm/in	Max. Working Pressure Bar/PSI	Max. End Load KN/Lbs	Axial Displacement mm/in	Dimensions			Bolts Size mm/in
					A	B	C	
25	33.7	20	1.80	0-1.6	55	97	45	M10×40
1	1.327	300	405	0-0.06	2.17	3.82	1.77	3/8×1-1/2
32	42.4	20	2.92	0-1.6	63.5	107.5	45	M10×45
1 1/4	1.669	300	656	0-0.06	2.50	4.23	1.77	3/8×1-3/4
40	48.3	20	3.79	0-1.6	69	114	45	M10×45
1 1/2	1.9	300	852	0-0.06	2.72	4.49	1.77	3/8×1-3/4
50	60.3	20	5.91	0-1.6	83.6	124	46	M10×55
2	2.375	300	1327	0-0.06	3.29	4.88	1.81	3/8×2-1/8
65	76.1	20	9.41	0-1.6	98	139	46	M10×55
2 1/2	3	300	2114	0-0.06	3.86	5.47	1.81	3/8×2-1/8
80	88.9	20	12.84	0-1.6	114	156	46	M10×55
3	3.5	300	2885	0-0.06	4.49	6.14	1.81	3/8×2-1/8
100	114.3	20	21.22	0-4.1	142	189	50	M12×65
4	4.5	300	4769	0-0.16	5.59	7.44	1.97	1/2×2-5/8
125	139.7	20	31.70	0-4.1	170	222	50	M12×65
5	5.5	300	7124	0-0.16	6.69	8.74	1.97	1/2×2-5/8
150	165.1	20	44.27	0-4.1	196	244	50	M12×65
6	6.5	300	9950	0-0.16	7.72	9.61	1.97	1/2×2-5/8
200	216.3	20	75.99	0-4.1	254	340	62	M16×80
8	8.515	300	17079	0-0.16	10.00	13.39	2.44	3/4×3-1/2
250	267.4	20	116.13	0-4.1	313	400	64	M20×90
10	10.527	300	26101	0-0.16	12.32	15.75	2.52	3/4×3-1/2
300	318.5	20	164.76	0-4.1	368	464	64	M22×110
12	12.539	300	37031	0-0.16	14.49	18.27	2.52	7/8×4-1/3

MODEL

HJ-11 STAINLESS STEEL RIGID COUPLING

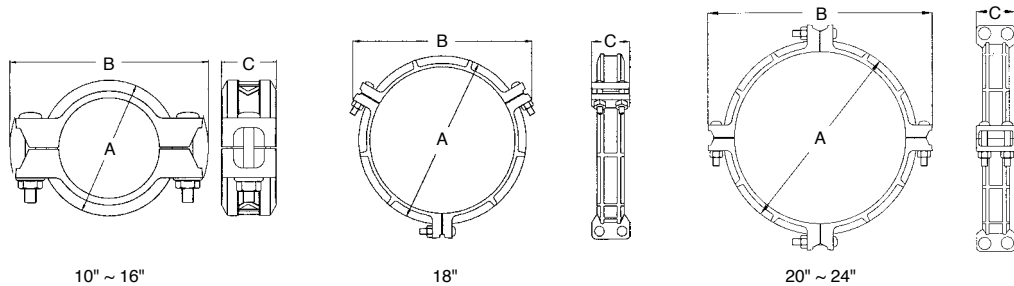
The Model HJ-11 is a tongue and groove rigid coupling designed to provide a rigid joint for stainless steel pipe in sizes 10" through 24". The HJ-11 is supplied standard in CF8 (304) and CF8M (316) with 304 and 316 bolts and nuts. The bolts must be fastened to the required torque for proper installation.



Pressure-Temperature Rating

Nom. Rating	Working Pressure (S40S, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @100°F 20 Bar @38°C	EPDM: 230°F / 110°C Nitrile: 180°F / 82°C

*The working pressure shown is based on roll-grooved Sch. 40S pipe. Apply 110% for cut-grooved Sch. 40S pipe. Apply 80% for roll-grooved Sch. 10S pipe and 50% for roll-grooved Sch. 5S pipe.
 *Proof test pressure: 1.5 times the working pressure, non-shock cold water.
 *Burst pressure is engineered minimum 2 times the working pressure.



Nominal Size mm / in	Pipe O. D. mm / in	Pipe End Separation mm / in	Dimensions			Bolt No.	Bolt Size in	Bolt Torque N-m / Lbs-Ft	Weight Kgs / Lbs
			A mm / in	B mm / in	C mm / in				
250	273.0	0-3.2	318	406	65	2	7/8 x 6 1/2	145 - 235	10.5
10	10.750	0-0.13	12.52	15.98	2.56			105 - 175	23.1
300	323.9	0-3.2	374	452	65	2	7/8 x 6 1/2	145 - 235	11.5
12	12.750	0-0.13	14.72	17.78	2.56			105 - 175	23.3
250 JIS	267.4	0-3.2	316	425	64	2	7/8 x 6 1/2	145 - 235	8.5
	10.528	0-0.13	12.44	16.73	2.52			105 - 175	18.7
300 JIS	318.5	0-3.2	370	465	64	2	7/8 x 6 1/2	145 - 235	9.8
	12.539	0-0.13	14.57	18.31	2.52			105 - 175	21.6
350	355.6	0-3.2	397	500	75	2	7/8 x 6 1/2	145 - 235	15.0
14	14.000	0-0.13	15.63	19.69	2.95			105 - 175	33.0
400	406.4	0-3.2	461	536	75	6	7/8 x 3 1/2	68 - 100	19.4
16	16.000	0-0.13	18.15	21.10	2.95			50 - 75	42.7
450	457.2	0-3.2	514	587	75	6	7/8 x 3 1/2	68 - 100	25.0
18	18.000	0-0.13	20.24	23.11	2.95			50 - 75	55.0
500	508.0	0-3.2	571	669	79	8	3/4 x 4 3/4	85 - 200	33.1
20	20.000	0-0.13	22.48	26.34	3.11			65 - 150	72.8
550	558.8	0-3.2	622	720	79	8	3/4 x 4 3/4	85 - 200	33.0
22	22.000	0-0.13	24.49	28.35	3.11			65 - 150	72.6
600	609.6	0-3.2	673	771	79	8	3/4 x 4 3/4	85 - 200	34.7
24	24.000	0-0.13	26.47	30.35	3.11			65 - 150	76.3

MODEL

HJ-2 STAINLESS STEEL FLEXIBLE COUPLING

The Model HJ-2 is a flexible coupling designed for a variety of general service and specialty applications. The HJ-2 is supplied standard in CF8 (304) and CF8M

(316) with 304 or 316 bolts and nuts. HJ-2 couplings should always be installed so that the coupling bolt pads make metal to metal contact.

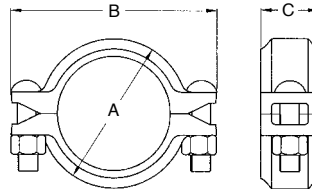
Pressure-Temperature Rating

Nom. Rating	Working Pressure (S40S, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @ 100°F 20 Bar @ 38°C	EPDM: 230°F / 110°C Nitrile: 180°F / 82°C

*The working pressure shown is based on roll-grooved Sch. 40S pipe. Apply 110% for cut-grooved Sch. 40S pipe. Apply 80% for roll-grooved Sch. 10S pipe and 50% for roll-grooved Sch. 5S pipe.

*Proof test pressure: 1.5 times the working pressure, non-shock cold water.

*Burst pressure is engineered minimum 3 times the working pressure.



Nominal Size mm/in	Actual O.D. mm/in	Max. Working	Max. End Load KN/Lbs	Axial Displacement mm/in	Angular Movement		Dimensions			Bolt Size mm/in
					Per Coupling	Per Pipe	A	B	C	
25	33.7	20	1.80	1.6		0.58	55	97	45	M10x40
1	1.327	300	405	0.0625	2°-45'	48	2.17	3.82	1.77	3/8x1-1/2
32	42.4	20	2.92	1.6		0.46	63.5	107.5	45	M10x45
11/4	1.669	300	656	0.0625	2°-10'	38	2.50	4.23	1.77	3/8x1-3/4
40	48.3	20	3.79	1.6		0.4	69	114	45	M10x45
11/2	1.9	300	852	0.0625	1°-54'	33	2.72	4.49	1.77	3/8x1-3/4
50	60.3	20	5.91	1.6		0.32	86.0	125	45	M10x55
2	2.375	300	1327	0.0625	1°-31'	27	3.68	4.92	1.77	3/8x2-1/8
65	76.1	20	9.41	1.6		0.25	100	140	46	M10x55
21/2	3	300	2114	0.0625	1°-12'	21	3.93	5.51	1.81	3/8x2-1/8
80	88.9	20	12.84	1.6		0.22	114	158	46	M10x55
3	3.5	300	2885	0.0625	1°-02'	18	4.49	6.22	1.81	3/8x2-1/8
100	114.3	20	21.22	3.2		0.34	142	189	50	M12x65
4	4.5	300	4769	0.125	1°-36'	28	5.59	7.44	1.97	1/2x2-5/8
125	139.7	20	31.70	3.2		0.27	170	218	50	M12x65
5	5.5	300	7124	0.125	1°-18'	23	6.69	8.74	1.97	1/2x2-5/8
150	165.1	20	44.27	3.2		0.24	197	248	50	M12x65
6	6.5	300	9950	0.125	1°-07'	20	7.75	9.76	1.97	1/2x2-5/8
200	216.3	20	75.99	3.2		0.18	257	340	61	M16x80
8	8.515	300	17079	0.125	0°-50'	15	10.10	13.39	2.40	5/8x3-1/8
250	267.4	20	116.13	3.2		0.14	313	400	64	M20x90
10	10.527	300	26101	0.125	0°-50'	12	12.32	15.75	2.52	3/4x3-1/2
300	318.5	20	164.76	3.2		0.12	368	464	64	M22x110
12	12.539	300	37031	0.125	0°-50'	10	14.49	18.27	2.52	7/8x4-1/3

MODEL

HJ-22 STAINLESS STEEL HEAVY DUTY FLEXIBLE COUPLING

The Model HJ-22 is designed for high pressure applications including reverse osmosis and desalination systems. The SS-8X is available in Duplex CD3MN (2205), Super Duplex CE8MN, CE3MN (2507) and 6-Moly stainless steel CK3MCuN

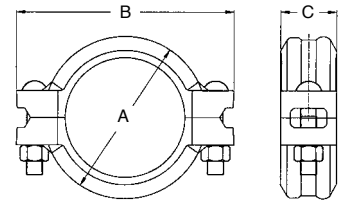
(254SMO*). The HJ-22 features 316 bolts, washers and Silicon Bronze nuts to help prevent galling during repetitive use. The HJ-22 is also available in CF8M (316) with 316 bolts and nuts. Contact **Hispeed** for details.



Pressure-Temperature Rating

Size	Nom. Rating	Working Pressure (S40S, Cut-grooved)	Test Pressure (Hydrostatic)	Max. Service Temperature
3/4" - 4" 20 - 100	CWP	1400 psi @100°F 98 Bar @38°C	2100 psi 147 Bar	EPDM: 230°F / 110°C Nitrile: 180°F / 82°C
5" - 8" 125 - 200	CWP	1000 psi @100°F 70 Bar @38°C	1500 psi 10.5 MPa	

*Working pressure is based on cut-grooved Sch. 40S or 80S pipe only.
*Burst pressure is engineered minimum 2 times the working pressure.



Nominal Size mm / in	Pipe O. D. mm / in	Pipe End Separation mm / in	Dimensions			Deflection Degree (°)	Bolt Size in	Weight Kgs / Lbs
			A mm / in	B mm / in	C mm / in			
20	26.7	0 - 1.6	56.0	95.0	46.0	3° - 23'	3/8 x 2	0.7
3/4	1.050	0 - 0.06	2.20	3.75	1.81			1.5
25	33.4	0 - 1.6	63.0	99.0	46.0	2° - 45'	3/8 x 2	0.8
1	1.315	0 - 0.06	2.45	3.91	1.81			1.8
32	42.2	0 - 1.6	72.0	111.0	46.0	2° - 10'	3/8 x 2	0.9
1 1/4	1.660	0 - 0.06	2.82	4.37	1.81			2.0
40	48.3	0 - 1.6	78.0	123.0	46.0	1° - 54'	3/8 x 2	1.0
1 1/2	1.900	0 - 0.06	3.06	4.82	1.81			2.2
50	60.3	0 - 1.6	88.0	134.0	47.0	1° - 31'	3/8 x 2	1.2
2	2.375	0 - 0.06	3.46	5.28	1.85			2.6
65	73.0	0 - 1.6	153.0	103.0	47.0	1° - 15'	3/8 x 2	1.3
2 1/2	2.875	0 - 0.06	6.02	4.06	1.85			2.9
80	88.9	0 - 1.6	120.0	171.0	47.0	1° - 02'	1/2 x 3	1.8
3	3.500	0 - 0.06	4.71	6.74	1.85			4.0
100	114.3	0 - 3.2	152.0	201.0	52.0	1° - 36'	1/2 x 3	2.4
4	4.500	0 - 0.13	5.98	7.90	2.03			5.3
125	141.3	0 - 3.2	181.0	249.0	53.0	1° - 18'	5/8 x 3 1/2	3.5
5	5.563	0 - 0.13	7.13	9.80	2.09			7.7
150	168.3	0 - 3.2	208.0	276.0	53.0	1° - 05'	5/8 x 3 1/2	4.0
6	6.625	0 - 0.13	8.19	10.85	2.09			8.8
200	219.1	0 - 3.2	267.0	341.0	62.0	0° - 50'	3/4 x 4 3/4	6.8
8	8.625	0 - 0.13	10.53	13.43	2.44			15.0
200 JIS	216.3	0 - 3.2	264.0	338.0	62.0	0° - 51'	3/4 x 4 3/4	6.5
	8.516	0 - 0.13	10.39	13.31	2.44			14.3

Working pressure ratings are based upon generally accepted pressure piping design standards and testing in accordance with ASME Section VIII Division 1 pressure vessel test methods.

CAST GROOVED FITTINGS

MODEL
100 90° ELBOW
110 45° ELBOW

MODEL
120 TEE
160 CAP

The Hispeed Model SS-100, SS-110, SS-120 and SS-160 stainless steel grooved fittings are made of ss pipe from 1" - 12". These fittings are supplied grades CF8 (304)

or CF8M (316). In addition fittings are also available on request in CF3M (316L), 316Ti, 2205 Duplex, 2507 Super Duplex and ASTM CK-3MCuN (UNS J93245) the cast equivalent to 254SMO* to meet your specific

service requirements.

All fittings feature full flow characteristics and are designed to the same C - E dimensions of standard ductile iron grooved fittings.

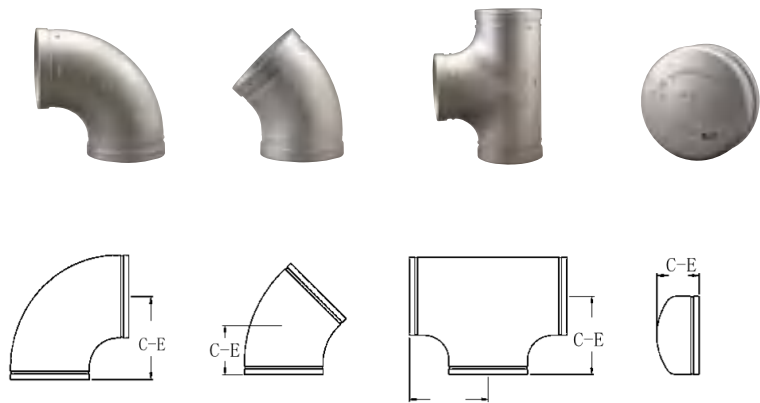
Pressure-Temperature Rating

Size	Nom. Rating	Working Pressure (STD. Roll-grooved)	Max. Service Temperature
1" - 4"	Class 300	750 psi @100°F	EPDM: 230°F / 110°C
25 - 100		52 Bar @38°C	
5" - 12"	Class 250	400 psi @100°F	Nitrile: 180°F / 82°C
125 - 300		28 Bar @38°C	

*The working pressure shown is based on roll-grooved Sch. 40S pipe. Apply 110% for cut-grooved Sch. 40S pipe. Apply 80% for roll-grooved Sch. 10S pipe and 50% for roll-grooved Sch. 5S pipe.

*Proof test pressure: 1.5 times the working pressure, non-shock cold water.

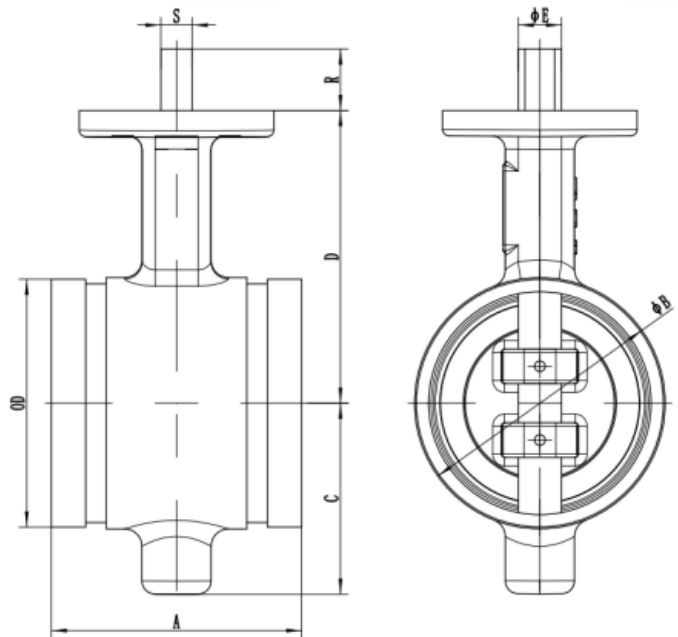
*Burst pressure is engineered minimum 3 times the working pressure.



Nominal Size mm / in	Pipe O. D. mm / in	100 90° Elbow		110 45° Elbow		120 Tee		160 Cap	
		C - E mm / in	Weight Kgs / Lbs	C - E mm / in	Weight Kgs / Lbs	C - E mm / in	Weight Kgs / Lbs	E - E mm / in	Weight Kgs / Lbs
25	33.4	57	0.3	45	0.2	57	0.4	24	0.1
1	1.315	2.25	0.7	1.75	0.4	2.25	0.9	0.94	0.2
32	42.2	70	0.4	45	0.3	70	0.7	24	0.1
1¼	1.660	2.75	0.9	1.75	0.7	2.75	1.5	0.94	0.2
40	48.3	70	0.4	45	0.4	70	0.8	24	0.2
1½	1.900	2.75	0.9	1.75	0.9	2.75	1.8	0.94	0.4
50	60.3	83	0.6	51	0.5	83	1.1	24	0.2
2	2.375	3.25	1.3	2.00	1.1	3.25	2.4	0.94	0.4
65	73.0	95	1.4	57	1.0	95	2.5	45	0.4
2½	2.875	3.75	3.1	2.25	2.2	3.75	5.5	1.75	0.9
76.1 mm	76.1	95	1.6	57	1.0	95	2.5	45	0.4
	3.000	3.75	3.5	2.25	2.2	3.75	5.5	1.75	0.9
80	88.9	108	1.3	64	1.0	108	2.1	51	0.7
3	3.500	4.25	2.9	2.50	2.2	4.25	4.6	2.00	1.5
100	114.3	127	2.2	76	1.6	127	3.4	51	0.9
	4.500	5.00	4.8	3.00	3.5	5.00	7.5	2.00	2.0
139.7 mm	139.7	140	3.9	83	2.8	140	5.6	60	1.6
	5.500	5.50	8.6	3.25	6.2	5.50	12.3	2.38	3.5
125	141.3	140	3.9	83	2.9	140	5.8	60	1.5
	5.563	5.50	8.6	3.25	6.4	5.50	12.8	2.38	3.3
165.1 mm	165.1	165	6.2	89	4.1	165	9.0	76	2.6
	6.500	6.50	13.6	3.50	9.0	6.50	19.8	3.00	5.7
150	168.3	165	6.5	89	4.2	165	9.7	76	2.4
	6.625	6.50	14.3	3.50	9.2	6.50	21.3	3.00	5.3
200	219.1	197	10.7	108	7.1	197	18.8	90	5.2
	8.625	7.75	23.5	4.25	15.6	7.75	41.4	3.50	11.4
250	273.0	229	29.0	121	16.8	229	21.1	127	10.2
	10	10.750	9.00	63.8	4.75	37.0	46.4	5.00	22.4
300	323.9	254	38.0	133	19.6	254	43.0	145	14.7
	12	12.750	10.00	83.6	5.25	43.1	94.6	5.71	32.3
200 JIS	216.3	197	10.7	108	7.1	197	13.8	90	5.2
	8.516	7.75	23.5	4.25	15.6	7.75	30.4	3.50	11.4
250 JIS	267.4	238	29.0	121	16.8	229	19.8	127	8.9
	10.528	9.37	63.8	4.75	37.0	9.00	43.6	5.00	19.6
300 JIS	318.5	310	21.7	133	19.6	254	27.1	145	14.7
	12.539	12.20	47.7	5.25	43.1	10.00	59.6	5.71	32.3

600 BUTTERFLY VALVE

- Stainless steel body with cast neck to accommodate insulation requirements
- ISO top flange will accept mounting of all major manual and power operators
- Seat options include EPDM, nitrile, fluoroelastomer, and lubricated nitrile (air and gas services only)
- Disc is stainless steel and provides bubble-tight shut-off at full rated pressure and temperature
- Pressure rates 300 psi/2065 kPa bi-directional and dead-end service
- Sizes from 2 – 12"/50 – 300 mm

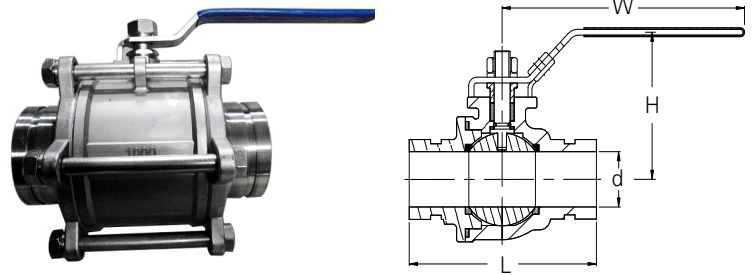


DIMENSIONS(mm)

DN	OD	A	B	C	D	E	S	R
50	60.3	81	62.5	51	102	12	8	14.5
65	73	96.8	75.1	57	108	12	9	14.5
65	76.1	96.8	75.1	57	108	12	9	14.5
80	88.9	96.8	90.2	70	115	16	12.5	28.5
100	114.3	115.8	116	88	135	20	14.5	28.5
150	165.1	147.6	168.3	118	165	24	16.5	28.5
150	168.3	147.6	168.3	118	165	24	16.5	28.5
200	216.3	133.4	219.1	158	170	28	20.5	30.5
200	219.1	133.4	219.1	158	170	28	20.5	30.5
250	267.4	158.8	273	192	197	32	27.5	30.5
250	273	158.8	273	192	197	32	27.5	30.5
300	318.5	165.1	324	219	220	34	27.5	30.5
300	323.9	165.1	324	219	220	34	27.5	30.5

B-500 BALL VALVE

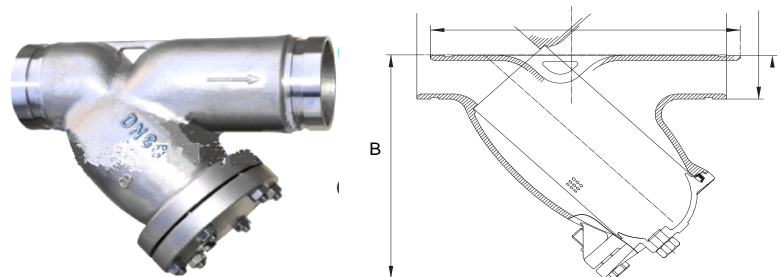
The Model B-500 is a two-piece, full-port stainless steel ball valve rated at 600 psi (40 bar) and is available in CF8(304) or CF8M (316). The B-500 features a floating ball for lower torque and is supplied with a lever handle as well as ISO mounting holes to accommodate a full range of gear or power actuators.



N.M in / mm	Pipe	Max.WP PSI / Bar	Operating Torque Lbs / kN	Dimensions				Approx. Kgs
	O. D.in / mm			L(in / mm)	H(in / mm)	W(in / mm)	d	
1½	1.9	600	62	5.5	3.7	7.6	1.5	6.6
40	48.3	42	7	140	94	193	38	3
2	2.375	600	150	6.15	4.13	7.6	1.97	8.8
50	60.3	42	17	156	105	193	50	4
2½	2.875	600	186	7.09	4.33	9.84	2.56	15.4
65	73	42	21	180	110	250	65	7
76.1 mm	3	600	186	7.09	4.33	9.84	2.56	15.4
	76.1	42	21	180	110	250	65	7
3	3.5	600	248	8.42	6	9.84	3.07	20.7
80	88.9	42	28	214	152	250	78	9.4
4	4.5	600	398	9.45	6.57	11.42	3.94	55
100	114.3	42	45	240	167	290	100	25

Y200 GROOVED Y STRAINER

The Model Y200 Stainless Steel Grooved-end Y-Strainers are designed to strain debris and foreign matter from piping systems and thus provide inexpensive protection for costly pumps, meters and other components. The Model Y200 Stainless Steel Y-Strainer is suitable for vertical or horizontal installations.



N.M in / mm	Pipe O.D.	Working Pressure Psi/Kg	Dimensions		Drain Plug Size mm/in
	in / mm		A(mm / in)	B(mm / in)	
2	2.374	300	9.06	6.06	½
50	60.3	20	230	154	15
2½	3	300	11.42	7.91	½
65	76.1	20	290	201	15
3	3.5	300	11.75	8.7	½
80	88.9	20	299	221	15
4	4.5	300	14.25	10.59	1
100	114.3	20	362	269	25
6	6.5	300	18.5	14.05	1
150	165.1	20	470	357	25
8	8.516	300	21.65	17.4	½
200	216.3	20	550	442	15

M Profile Press Fittings

Stainless steel

Galvanized



M profile press fittings

Hi speed has a full range of M profile press fittings from 15 up to 168.3mm

M-profile press fittings material available in SS Stainless steel 304, 316L and carbon steel (galvanized)

Full range of M-profile press fitting

O-Ring in EPDM, FKM and NBR are available to all of Hi speed M press fittings.

M profile Press Fittings

Press pipes stainless steel

In order to better match our press fittings, HI speed Inox pipes are made through in-line annealing production and conform to DIN EN 10312, series 1 & 2

M profile press fittings



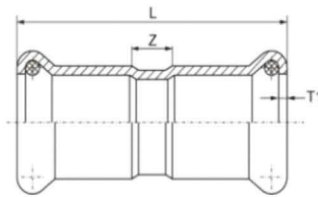
Size (OD)	Material	13Su	20Su	25Us	30Su	40Su	50Su	60Su
Mpa kgf/m²	Specifications	2.5 (25.2) Keep it watertight for 2 minutes						
	L1	23.0 (235)	20.6 (210)	16.2 (165)	26.3 (268)	16.3 (213)	15.9 (162)	7.5 (77)
	L2	13.7 (140)	12.3 (125)	5.9 (60)	15.1 (154)	9.3 (128)	8.8 (90)	5.0 (51)
Ultimate drawing strength KN(kgf)	Specifications	2.2 (224)	3.8 (387)	4.9 (500)	7.0 (714)	8.8 (897)	10.1 (1030)	15.8 (1612)
	L1	5.49 (560)	9.31 (949)	12.1 (1230)	33.3 (3400)	35.7 (3640)	37.4 (3810)	30.9 (3152)
	L2	2.43 (248)	5.35 (546)	3.88 (396)	12.2 (1240)	12.2 (1240)	116.4 (1670)	13.3 (13.57)
Negative pressure test	Specifications	-96kPa (-720mmHg) Keep for 2 minutes						
	L1	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities
Shock pressure test	Specifications	Water pressure 1.75kPa ±22.5mm vibration frequency 600 cycles per minute						
	L1	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities
	L2	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities
Internal pressure trial and error	Specifications	0 ⇄ 4.0MPa 40.7kgf/m² 10,000 turns every 4 seconds						
	L1	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities
Hydraulic bending test	L2	>30°	>30°	>30°	>30°	>30°	>30°	>30°

Press pipe tube



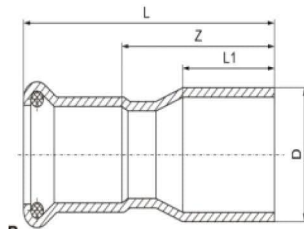
Size (OD) mm	Material		thickness					
	SS304	SS316	0.6	0.8	1.0	1.2	1.5	2.0
15								
18								
22								
28								
35								
42								
54								
76.1								
88.9								
108								
139								

Equal Coupling



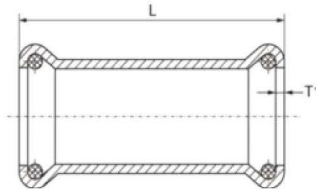
Size (OD) mm	L mm	Z mm	T1 mm
15	48±2	7	1.5
18	49±2	8	1.5
22	53±2	11	1.5
28	58±2	12	1.5
35	65±2	11	1.5
42	76±2	12	1.5
54	87±2	13	1.5
76.1	142±2	32	2.00
88.9	163±2	37	2.00
108	192±2	38	2.00
114	193±2	51	2.00
139	250±2	54	2.00
168	300±2	64	2.00

Reducer Coupling with plain



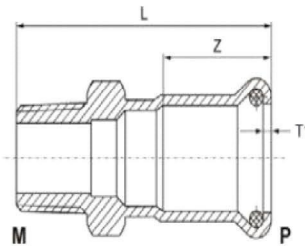
Size (OD) mm	L mm	Z mm	T1 mm
18x15	56±2	35.5	1.5
22x15	60±2	39.5	1.5
22x18	55±2	35.5	1.5
28x15	66±2	45.5	1.5
28x18	67±2	46.5	1.5
28x22	62±2	41	1.5
35x18	74±2	53	1.5
35x22	73±2	52	1.5
35x28	80±2	57	1.5
42x18	84±2	63.5	1.5
42x22	83±2	62	1.5
42x28	85±2	62	1.5
54x18	95±2	74	1.5
54x22	93±2	72	1.5
54x28	94±2	70	1.5
54x35	96±2	69	1.5
54x42	98±2	66	1.5
76.1x42	151±2	119	2.00
76.1x54	140±2	103	2.00
88.9x54	156±2	119	2.00
88.9x76.1	156±2	101	2.00
108x54	204±2	167	2.00
108x76.1	196±2	141	2.00
108x88.9	190±2	127	2.00

Slip 



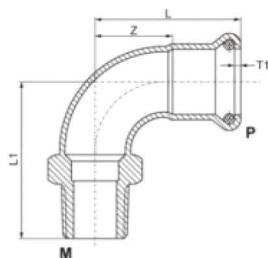
Size (OD) mm	L mm	T1 mm	Weight g
15	80±2	1.5	72
18	82±2	1.5	85
22	85±2	1.5	113
28	96±2	1.5	149
35	105±2	1.5	234
42	120±2	1.5	324
54	138±2	1.5	468
76.1	230±2	2.0	874
88.9	258±2	2.0	1196
108	305±2	2.0	1775

Adapter with male threaded end 



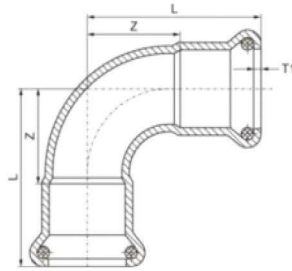
Size (OD) mm	L mm	Z mm	T1 mm
15xR1/2	51±2	20.5	1.5
18xR1/2	50±2	20.5	1.5
18xR3/4	54±2	20.5	1.5
22xR1/2	51±2	21	1.5
22xR3/4	54±2	21	1.5
28xR3/4	56±2	23	1.5
28xR1	60±2	23	1.5
35xR1	64±2	27	1.5
35xR1 1/4	68±2	27	1.5
42xR1 1/2	75±2	32	1.5
54xR2	88±2	37	1.5
76.1xR2 1/2	125±2	70	2.0
88.9xR3	138±2	75	2.0
108xR4	142±2	78	2.0
114.3xR4	142±2	71.3	2.0

90°elbow with male threaded end 



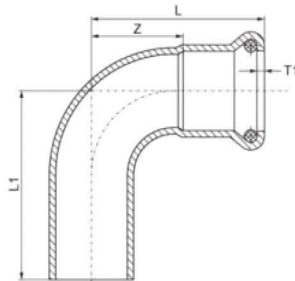
Size (OD) mm	L mm	Z mm	T1 mm
15xRp1/2	42.5±2	22	1.5
18xRp1/2	47±2	26.5	1.5
18xRp3/4	44	24	1.5
22xRp1/2	52.5±2	31.5	1.5
22xRp3/4	52.5±2	31.5	1.5
28xRp1	62±2	39	1.5
35xRp1 1/4	72±2	45	1.5
42xRp1 1/2	88±2	57	1.5
54xRp2	106±2	70	1.5

Elbow 90°



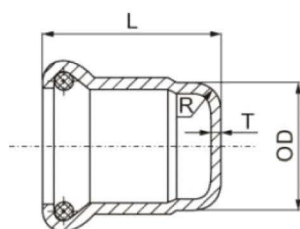
Size (OD) mm	L mm	Z mm	T1 mm
15	42.5±2	22	1.5
18	47±2	26.5	1.5
22	52.5±2	31.5	1.5
28	62±2	39	1.5
35	72±2	45	1.5
42	88±2	56	1.5
54	110±2	73	1.5
76.1	150±2	95	2.00
88.9	174±2	111	2.00
108	215±2	138	2.00
114	250±2	177	2.00
139	314±2	217	2.00
168	378±2	261	2.00

90° elbow with plain



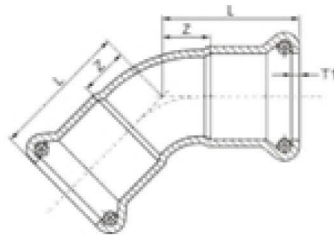
Size (OD) mm	L mm	Z mm	T1 mm
15	42.5±2	22	1.5
18	47±2	26.5	1.5
22	52.5±2	31.5	1.5
28	62±2	39	1.5
35	72±2	45	1.5
42	88±2	56	1.5
54	110±2	73	1.5
76.1	150±2	95	2.00
88.9	174±2	11	2.00
108	215±2	138	2.00
114	250±2	177	2.00
139	314±2	217	2.00
168	158±2	261	2.00

Cap



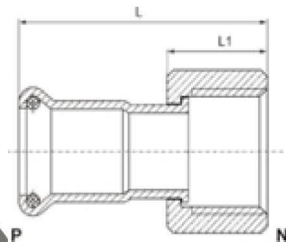
Size (OD) mm	L mm	Z mm	T1 mm
15	34±2	3.0	1.5
18	35±2	3.0	1.5
22	32±2	5.0	1.5
28	36±2	5.0	1.5
35	40±2	6.0	1.5
42	46±2	6.0	1.5
54	52±2	6.0	1.5

Elbow 45°



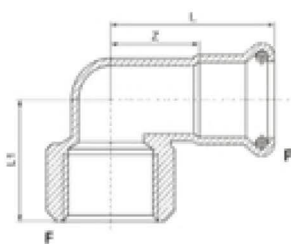
Size (OD) mm	L mm	Z mm	T1 mm
15	31±2	10.5	1.5
18	32±2	11.5	1.5
22	36±2	15	1.5
28	40.5±2	17.5	1.5
35	47±2	20	1.5
42	57±2	25	1.5
54	69±2	32	1.5
76.1	98±2	43	2.00
88.9	112±2	49	2.00
108	138±2	61	2.00
114	159±2	89	2.00
139	204±2	105	2.00
168	245±2	126	2.00

Union



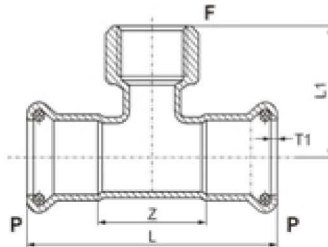
Size (OD) mm	L mm	Z mm	T1 mm
15xR1/2	54±2	20	1.5
18xR1/2	54±2	20	1.5
18xR3/4	56±2	20	1.5
22xR1/2	68±2	21	1.5
22xR3/4	56±2	21	1.5
28xR1	63±2	23	1.5
35xR1 1/4	79±2	26	1.5
42xR1 1/2	88±2	31	1.5
54xR2	101.6±2	36	1.5
76.1xR2 1/2	125±2	70	2.0
88.9xR3	138±2	75	2.0
108xR4	142±2	78	2.0
114.3xR4	142±2	71.3	2.0

Short female elbow 90°



Size (OD) mm	L mm	Z mm	T1 mm
15xRp1/2	48±2	28	1.5
18xRp1/2	56±2	37	1.5
22xRp1/2	49±2	28	1.5
22xRp3/4	52±2	32	1.5
28xxRp1	60±2	37	1.5
28xRp3/4	67±2	46	1.5

Tee with female threaded



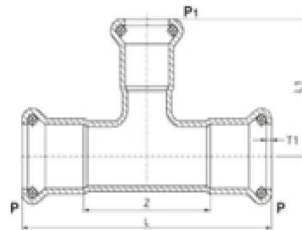
Size (OD) mm	L mm	Z mm	T1 mm
15xRp1/2	67±2	28	1.5
18xRp1/2	70±2	30	1.5
22xRp1/2	77±2	37	1.5
22xRp3/4	77±2	37	1.5
28xRp1/2	88±2	46	1.5
28xR3/4	88±2	46	1.5
28xRp1	88±2	46	1.5
35xRp1/2	102±2	54	1.5
35xRp3/4	102±2	54	1.5
35xRp11/4	102±2	54	1.5
42xRp1/2	120±2	60	1.5
42xRp3/4	122±2	60	1.5
42xRp11/4	122±2	62	1.5
42xRp11/2	122±2	62	1.5
54xRp1/2	146	62	1.5
54xRp3/4	144±3	62	1.5
54xRp11/2	144±4	74	1.5
54xRp2	144±5	74	1.5
76.1xRp3/4	232±5	110	2.0
76.1xRp2	232±5	110	2.0
88.9xRp3/4	262±5	126	2.0
88.9xRp2	262±5	126	2.0
108xRp3/4	312±5	154	2.0
108xRp2	312±5	154	2.0

Flange with adapter socket



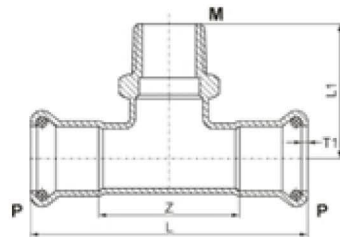
Size (OD) mm	L mm	D mm	T1 mm
15	43±2	95	1.5
18	49±2	95	1.5
22	56±2	105	1.5
28	65±2	115	1.5
35	79±2	140	1.5
42	85±2	150	1.5
54	108±2	165	1.5
76.1	152±2	185	2.0
88.9	171±2	200	2.0
108	186±2	220	2.0

Reducer tee



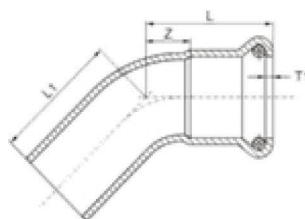
Size (OD) mm	L mm	Z mm	T1 mm
18x15	70±2	29	1.5
22x15	77±2	35	1.5
22x18	77±2	35	1.5
18x15	88±2	42	1.5
28x18	88±2	42	1.5
28x22	88±2	42	1.5
35x15	102±2	48	1.5
35x18	102±2	48	1.5
35x22	102±2	48	1.5
35x28	102	48	1.5
42x18	120±2	56	1.5
42x22	120±2	56	1.5
42x28	120±2	56	1.5
42x35	120±2	56	1.5
54x18	144±2	70	1.5
54x22	144±2	70	1.5
54x28	144±2	70	1.5
54x35	144±2	70	1.5
54x42	144±2	70	1.5
76.1x22	232±2	110	2.0
76.1x28	232±2	110	2.0
76.1x35	232±2	110	2.0
76.1x42	232±2	110	2.0
76.1x54	232±2	110	2.0
88.9x22	262±2	126	2.0
88.9x28	262±2	126	2.0
88.9x35	262±2	126	2.0
88.9x42	262±2	126	2.0
88.9x54	262±2	126	2.0
88.9x76.1	262±2	126	2.0
108x22	312±2	154	2.0
108x28	312±2	154	2.0
108x35	312±2	154	2.0
108x42	312±2	154	2.0
108x54	312±2	154	2.0
108x76.1	312±2	154	2.0
108x88.9	312±2	154	2.0

Tee with male threaded



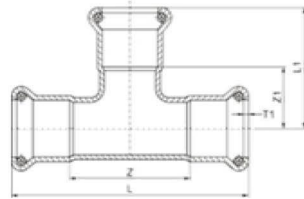
Size (OD) mm	L mm	Z mm	T1 mm
15xRp1/2	67±2	28	1.5
18xRp1/2	70±2	30	1.5
22xRp1/2	77±2	37	1.5
22xRp3/4	77±2	37	1.5
28xRp1/2	88±2	46	1.5
28xR3/4	88±2	46	1.5
28xRp1	88±2	46	1.5
35xRp1/2	102±2	54	1.5
35xRp3/4	102±2	54	1.5
35xRp11/4	102±2	54	1.5
42xRp1/2	120±2	60	1.5
42xRp3/4	122±2	60	1.5
42xRp11/4	122±2	62	1.5
42xRp11/2	122±2	62	1.5
54xRp1/2	146	62	1.5
54xRp3/4	144±3	62	1.5
54xRp11/2	144±4	74	1.5
54xRp2	144±5	74	1.5
76.1xRp3/4	232±5	110	2.0
76.1xRp2	232±5	110	2.0
88.9xRp3/4	262±5	126	2.0
88.9xRp2	262±5	126	2.0
108xRp3/4	312±5	154	2.0
108xRp2	312±5	154	2.0

45° elbow B



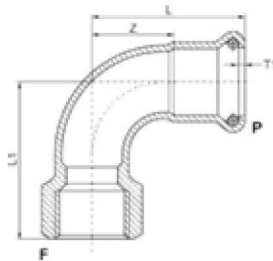
Size (OD) mm	L mm	Z mm	T1 mm
15	31±2	10.5	1.5
18	32±2	11.5	1.5
22	36±2	15	1.5
28	40.5±2	17.5	1.5
35	47±2	20	1.5
42	57±2	25	1.5
54	69±2	32	1.5
76.1	98±2	43	2.00
88.9	112±2	49	2.00
108	138±2	61	2.00

Equal tee



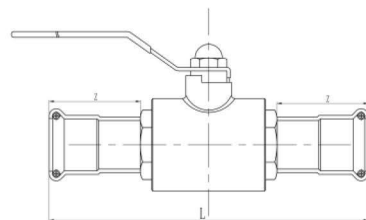
Size (OD) mm	L mm	Z mm	T1 mm
15	67±2	26	1.5
18	70±2	29	1.5
22	77±2	35	1.5
28	88±2	42	1.5
35	102±2	48	1.5
42	120±2	56	1.5
54	144±2	70	1.5
76.1	232±2	110	2.00
88.9	262±2	126	2.00
108	312±2	154	2.00
139.7	394±2	198	2.00
168.3	514±2	278	2.00

90°elbow with female threaded end



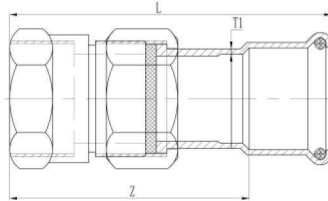
Size (OD) mm	L mm	Z mm	T1 mm
15xRp1/2	42.5±2	22	1.5
18xRp1/2	47±2	26.5	1.5
18xRp3/4	44	24	1.5
22xRp1/2	52.5±2	31.5	1.5
22xRp3/4	52.5±2	31.5	1.5
28xRp1	62±2	39	1.5
35xRp1 1/4	72±2	45	1.5
42xRp1 1/2	88±2	57	1.5
54xRp2	106±2	70	1.5

Ball valve with press end



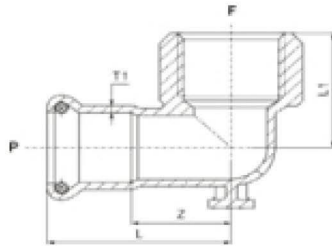
Size (OD) mm	L mm	D mm	T1 mm
15	43±2	95	1.5
18	49±2	95	1.5
22	56±2	105	1.5
28	65±2	115	1.5
35	79±2	140	1.5
42	85±2	150	1.5
54	108±2	165	1.5
76.1	152±2	185	2.0
88.9	171±2	200	2.0
108	186±2	220	2.0

Male straight connector with union nut 



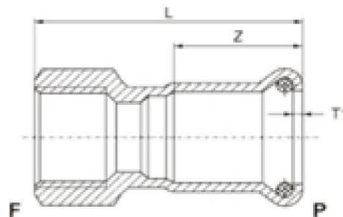
Size (OD) mm	L mm	Z mm	T1 mm
15x1/2	73±2	41	1.5
18x1/2	59±2	27	1.5
22x3/4	63±2	28	1.5
28x1	71±2	33	1.5
35x1 1/4	78±2	34	1.5
42x1 1/2	83±2	36	1.5
54x2	95±2	39	1.5

Female threaded end with wall plate 



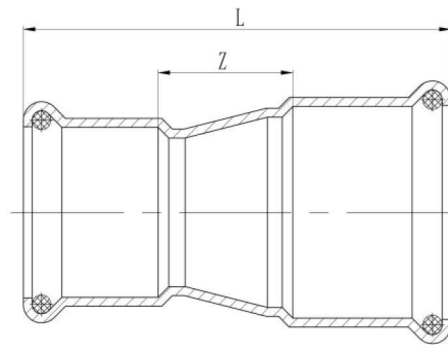
Size (OD) mm	L mm	Z mm	T1 mm
15xRp1/2	48±2	28	1.5
18xRp1/2	56±2	37	1.5
22xRp1/2	49±2	28	1.5
28xRp1	60±2	37	1.5
22xRp3/4	67±2	46	1.5

Adapter with female threaded end 



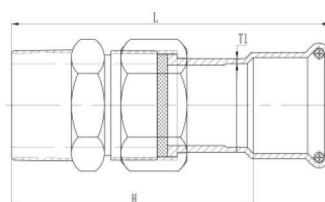
Size (OD) mm	L mm	Z mm	T1 mm
15xR 1/2	49±2	20.5	1.5
18xR 1/2	48±2	20.5	1.5
18xR 3/4	49±2	20.5	1.5
22xR 1/2	49±2	21	1.5
22xR 3/4	49±2	21	1.5
22xR1	54±2	21	1.5
28xR 3/4	51±2	23	1.5
28xR1	57±2	23	1.5
35xR1	61±2	27	1.5
35xR 1 1/4	64±2	27	1.5
42xR 1 1/2	70±2	32	1.5
54xR2	82±2	37	1.5
76.1xRp2 1/2	104±2	60	2.0
88.9xRp3	105±2	64	2.0
108xRp4	142±2	78	2.0
114.3xRp4	142±2	71.3	2.0

Reucer coupling



Size (OD) mm	T1 mm
18x15	1.5
22x15	1.5
22x18	1.5
28x15	1.5
28x18	1.5
28x22	1.5
35x15	1.5
35x18	1.5
35x22	1.5
35x28	1.5
42x15	1.5
42x18	1.5
42x22	1.5
42x28	1.5
42x35	1.5
54x15	1.5
54x18	1.5
54x22	1.5
54x28	1.5
54x35	1.5
54x42	2.0
76.1x54	2.0
88.9x54	2.0
88.9x76.1	2.0
108x54	2.0
108x76.1	2.0
108x88.9	2.0

Male straight connector with union nut



Size (OD) mm	L mm	H mm	T1 mm
15 x 1/2	78±2	58	1.5
18 x 1/2	64±2	42	1.5
22 x 3/4	70±2	46	1.5
28 x 1	79±2	54	1.5
35 x 1 1/4	86±2	59	1.5
42 x 1 1/2	91±2	63	1.5
54 x 2	104±2	68	1.5

V Profile Press Fittings

Stainless steel



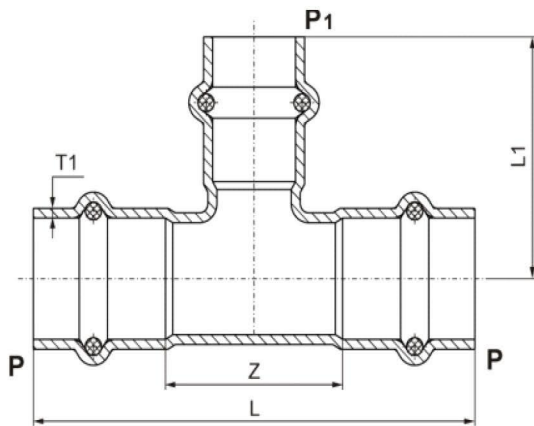
V-profile press fittings stainless steel

Hispeed V-profile press fittings size is available from 15mm to 108mm

V-profile press fittings material available in SS Stainless steel 304 and 316L

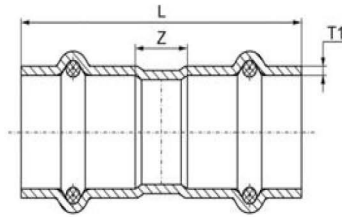
O-Ring in EPDM, FKM and NBR are available to all of Hispeed V press fittings

Reducer tee



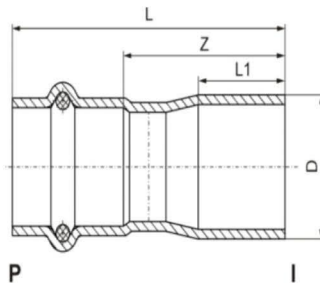
Size (OD) mm	L mm	Z mm	T1 mm
18x15	80±2	36	1.5
22x15	86±2	40	1.5
22x18	86±2	40	1.5
28x15	94±2	46	1.5
28x18	94±2	46	1.5
28x22	94±2	46	1.5
35x15	108±2	54	1.5
35x18	108±2	54	1.5
35x22	108±2	54	1.5
35x28	108±2	54	1.5
42x18	136±2	60	1.5
42x22	136±2	60	1.5
42x28	136±2	60	1.5
42x35	136±2	60	1.5
54x18	154±2	72	1.5
54x22	154±2	72	1.5
54x28	154±2	72	1.5
54x35	154±2	72	1.5
54x42	154±2	72	1.5
76.1×22	250	114.6	2.0
76.1×28	250	114.6	2.0
76.1×35	250	114.6	2.0
76.1×42	250	114.6	2.0
76.1×54	250	114.6	2.0
88.9×22	270	124.8	2.0
88.9×28	270	124.8	2.0
88.9×35	270	124.8	2.0
88.9×42	270	124.8	2.0
88.9×54	270	124.8	2.0
88.9×76.1	270	124.8	2.0
108×22	300	134.6	2.0
108×28	300	134.6	2.0
108×35	300	134.6	2.0
108×42	300	134.6	2.0
108×54	300	134.6	2.0
108×76.1	300	134.6	2.0
108×88.9	300	134.6	2.0

Equal Coupling



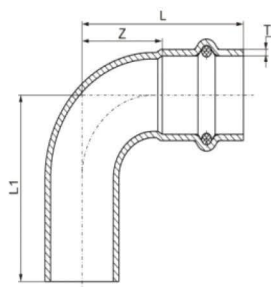
Size (OD) mm	L mm	Z mm	T1 mm
15	53±2	9	1.5
18	51±2	9	1.5
22	55±2	9	1.5
28	60±2	12	1.5
35	66±2	12	1.5
42	89±2	13	1.5
54	96±2	14	1.5
76.1	151±2	31.6	2.0
88.9	161±2	31.6	2.0
108	181±2	35.5	2.0

Reducer Coupling with plain



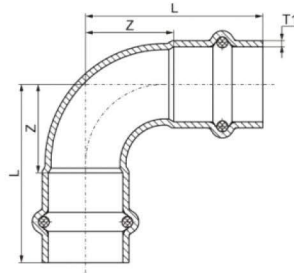
Size (OD) mm	L mm	Z mm	T1 mm
18x15	56±2	26	1.5
22x15	60±2	27.5	1.5
22x18	54±2	27.5	1.5
28x15	66±2	30	1.5
28x18	66±2	30	1.5
28x22	64±2	30	1.5
35x18	74±2	37	1.5
35x22	75±2	37	1.5
35x28	81±2	37	1.5
42x18	84±2	45	1.5
42x22	85±2	45	1.5
42x28	86±2	45	1.5
54x18	95±2	50	1.5
54x22	95±2	50	1.5
54x28	95±2	50	1.5
54x35	97±2	50	1.5
54x42	104±2	50	1.5

Elbow 90° with plain



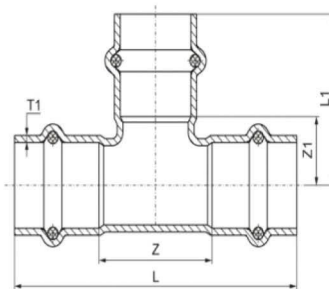
Size (OD) mm	L mm	Z mm	T1 mm
15	46±2	24	1.5
18	50±2	28	1.5
22	56±2	33	1.5
28	62±2	38	1.5
35	75±2	48	1.5
42	94±2	56	1.5
54	112±2	71	1.5

Elbow 90°



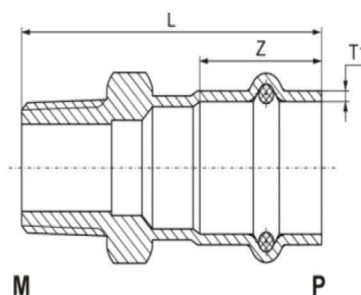
Size (OD) mm	L mm	Z mm	T1 mm
15	46±2	24	1.5
18	50±2	28	1.5
22	56±2	33	1.5
28	62±2	38	1.5
35	75±2	48	1.5
42	94±2	56	1.5
54	112±2	71	1.5
76.1	189	129.3	2.0
88.9	212	147.3	2.0
108	257	184.3	2.0

Tee



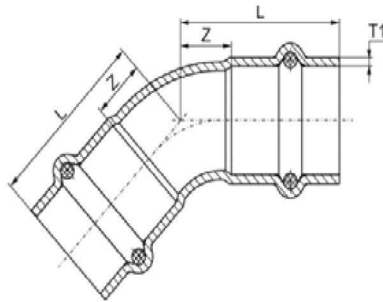
Size (OD) mm	L mm	Z mm	T1 mm
15	80±2	36	1.5
18	80±2	36	1.5
22	86±2	40	1.5
28	94±2	46	1.5
35	108±2	54	1.5
42	136±2	60	1.5
54	154±2	72	1.5
76.1	250	250	2.0
88.9	270	270	2.0
108	300	300	2.0

Adapter with male threaded end



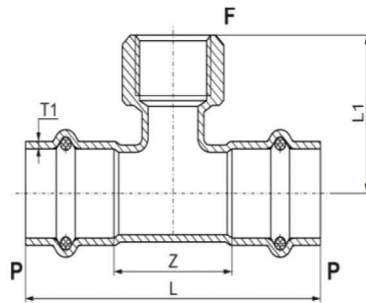
Size (OD) mm	L mm	Z mm	T1 mm
15xRp1/2	52+2	22	1.5
18xRp1/2	50.5±2	21	1.5
18xRp3/4	53±2	21	
22xRp1/2	52+2	23	1.5
22xRp3/4	55±2	23	1.5
22xRp1	60±2	23	1.5
28xRp3/4	58±2	24	1.5
28xRp1	62±2	24	1.5
35xRp1	65±2	27	1.5
35xRp1 1/4	69±2	27	1.5
42xRp1 1/2	82±2	38	1.5
54xRp2	93±2	41	1.5

Elbow 45°



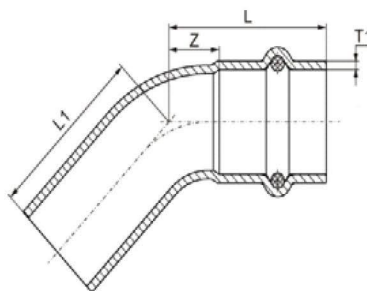
Size (OD) mm	L mm	Z mm	T1 mm
15	34±2	12	1.5
18	36±2	14	1.5
22	39±2	16	1.5
28	42±2	18	1.5
35	50±2	23	1.5
42	64±2	26	1.5
54	74±2	33	1.5
76.1	128	68.3	2.0
88.9	139	74.3	2.0
108	178	105.3	2.0

Tee with female threaded end



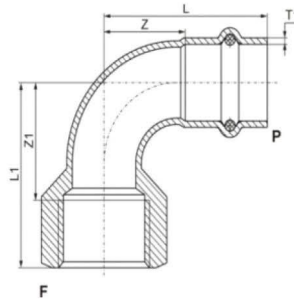
Size (OD) mm	L mm	Z mm	T1 mm
15xRp1/2	80±2	36	1.5
18xRp1/2	80±2	36	1.5
22xRp1/2	86±2	40	1.5
28xRp1/2	94±2	46	1.5
35xRp1/2	108±2	54	1.5
42xRp1/2	136±2	60	1.5
54xRp1/2	154±2	72	1.5
42xRp1 1/2	136±2	60	1.5
35xRp1 1/4	108±2	54	1.5
28xRp1	94±2	46	1.5
54xRp2	154±2	72	1.5
18xRp3/4	80±2	36	1.5
22xRp3/4	86±2	40	1.5
28xRp3/4	94±2	46	1.5
35xRp3/4	108±2	54	1.5
42xRp3/4	136±2	60	1.5
54xRp3/4	154±2	72	1.5

Elbow 45° with plain



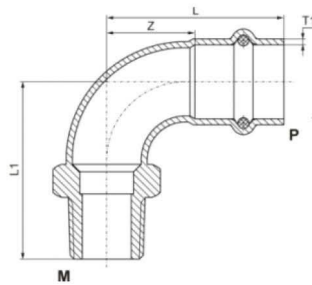
Size (OD) mm	L mm	Z mm	T1 mm
15	34±2	12	1.5
18	36±2	14	1.5
22	39±2	16	1.5
28	42±2	18	1.5
35	50±2	23	1.5
42	64±2	26	1.5
54	74±2	33	1.5

Elbow with female threaded end



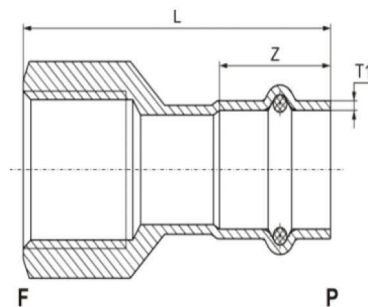
Size (OD) m m	L m m	Z m m	T1 m m
15 x R p 1/2	46±2	24	1.5
18 x R p 1/2	50±2	28	1.5
22 x R p 1/2	56±2	33	1.5
22 x R p 3/4	56±2	33	1.5
28 x R p 1	62±2	38	1.5
35 x R p 1 1/4	75±2	48	1.5
42 x R p 1 1/2	93±2	57	1.5
54 x R p 2	110±2	70	1.5

Elbow with male threaded end



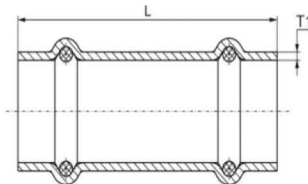
Size (OD) m m	L m m	Z m m	T1 m m
15 x R p 1/2	46±2	24	1.5
18 x R p 1/2	50±2	28	1.5
22 x R p 1/2	56±2	33	1.5
22 x R p 3/4	56±2	33	1.5
28 x R p 1	62±2	38	1.5
35 x R p 1 1/4	75±2	48	1.5
42 x R p 1 1/2	93	57	1.5
54 x R p 2	110	70	1.5

Adapter with female threaded end



Size (OD) m m	L m m	Z m m	T1 m m
15 x R p 1/2	49±2	22	1.5
18 x R p 1/2	48±2	21	1.5
18 x R p 3/4	48.5±2	21	1.5
22 x R p 1/2	49±2	23	1.5
22 x R p 3/4	50±2	23	1.5
22 x R p 1	56±2	23	1.5
28 x R p 3/4	50±2	24	1.5
28 x R p 1	58±2	24	1.5
35 x R p 1	62±2	27	1.5
35 x R p 1 1/4	64±2	27	1.5
42 x R p 1 1/2	77.5±2	38	1.5
54 x R p 2	104±2	41	1.5

Elbow 90°



Size (OD) mm	L mm	Z mm	T1 mm
15	80±2	1.5	1.5
18	80±2	1.5	1.5
22	86±2	1.5	1.5
28	94±2	1.5	1.5
35	108±2	1.5	1.5
42	136±2	1.5	1.5
54	138±2	135	1.5

Ball valve with press end



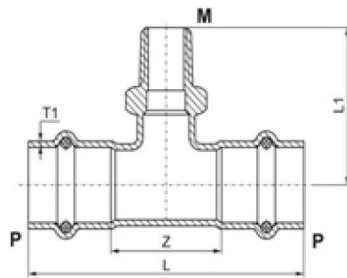
Size (OD) mm	L mm	D mm	T1 mm
15	43±2	95	1.5
18	49±2	95	1.5
22	56±2	105	1.5
28	65±2	115	1.5
35	79±2	140	1.5
42	85±2	150	1.5
54	108±2	165	1.5
76.1	152±2	185	2.0
88.9	171±2	200	2.0
108	186±2	220	2.0

Flange adaptor



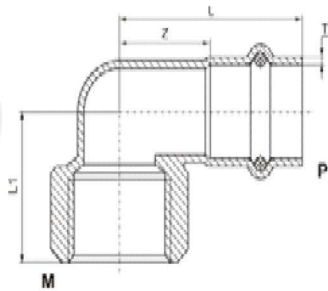
Size (OD) mm	L mm	T1 mm
15	43±2	1.5
18	49±2	1.5
22	56±2	1.5
28	65±2	1.5
35	79±2	1.5
42	85±2	1.5
54	108±2	1.5
76.1	152±2	2
88.9	171±2	2
108	186±2	2

Tee with male threaded end



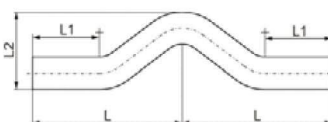
Size (OD) mm	L mm	Z mm	T1 mm
15xRp1/2	80±2	36	1.5
18xRp1/2	80±2	36	1.5
22xRp1/2	86±2	40	1.5
28xRp1/2	94±2	46	1.5
35xRp1/2	108±2	54	1.5
42xRp1/2	136±2	60	1.5
54xRp1/2	154±2	72	1.5
42xRp1 1/2	136±2	60	1.5
35xRp1 1/4	108±2	54	1.5
28xRp1	94±2	46	1.5
54xRp2	154±2	72	1.5
18xRp3/4	80±2	36	1.5
22xRp3/4	86±2	40	1.5
28xRp3/4	94±2	46	1.5
35xRp3/4	108±2	54	1.5
42xRp3/4	136±2	60	1.5
54xRp3/4	154±2	72	1.5

Short female elbow



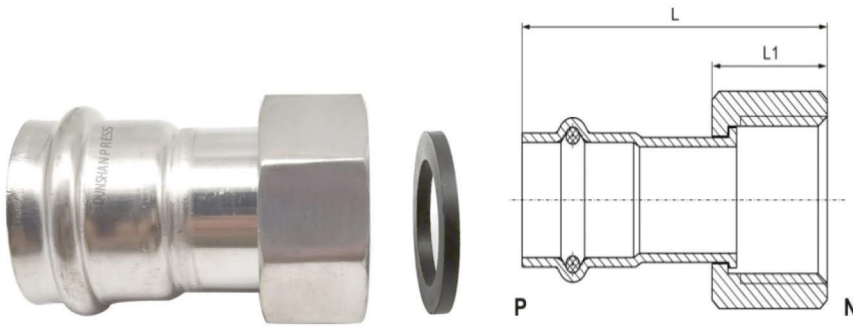
Size (OD) mm	L mm	Z mm	T1 mm
15xRp1/2	46	23	1.5
18xRp1/2	48	25	1.5
22xRp1/2	49	25	1.5
22xRp3/4	57.5	34.5	1.5

Brige



Size (OD) mm	L mm	T1 mm	Weight g
15	160±2	1.5	181
18	166±2	1.5	242
22	180±2	1.5	378
35	214±2	1.5	450

Union



Size (OD) mm	L mm	T1 mm
15xRp1/2	54±2	1.5
15xRp3/4	56±2	1.5
18xRp1/2	53.5±2	1.5
18xRp3/4	55.5±2	1.5
22xRp1/2	56±2	1.5
22xRp3/4	57±2	1.5
22xRp1	62±2	1.5
28xRp1	64±2	1.5
35xRp1	64±2	1.5
35xRp1 1/4	71±2	1.5
42xRp1 1/2	82±2	1.5
54xRp2	82±2	1.5

Union with male nut



Size (OD) mm	L mm	T1 mm
15x1/2	75±2	1.5
18x1/2	61±2	1.5
22x3/4	64±2	1.5
28x1	72±2	1.5
35x1 1/4	78±2	1.5
42x1 1/2	83±2	1.5
54x2	95±2	1.5

Union with male nut



Size (OD) mm	L mm	T1 mm
15x1/2	78±2	1.5
18x1/2	64±2	1.5
22x3/4	70±2	1.5
28x1	79±2	1.5
35x1 1/4	86±2	1.5
42x1 1/2	91±2	1.5
54x2	104±2	1.5

Customer Made



Cross press / female



Coupling one side press
other sided clamp



Reducer Tee with press
one side male threaded
other side female threaded



Pipe with male threaded
other side female threaded

Electro-hydraulic tool



SPECIFICATIONS

- Capacity – 2" to 4" for stainless steel, OD54mm - to 108mm for PEX
- Head Rotation – 270° barrel/jaw swivel
- Charger – 120V
- Hydraulic Ram Output – 5,400 lbs. (24kN)
- Operating Temperature Range – +15 ° F to +122° F (-10 C to 50 C)
- Approximate Cycle Time – 4-5 seconds



SPECIFICATIONS

- Capacity – 1/2" to 2" for copper and stainless steel, 3/8" - to 2" for PEX
- Head Rotation – 270° barrel/jaw swivel
- Battery – 18V Advanced Lithium 2
- Battery Charger – 120V
- Hydraulic Ram Output – 5,400 lbs. (24kN)
- Weight – 6.2 lbs/2.8 kg (with Advanced Lithium 2 battery)
- Operating Temperature Range – +15 ° F to +122° F (-10 C to 50 C)
- Approximate Cycle Time – 4-5 seconds



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