

Section 3

Stainless Steel Series

Shurjoint Stainless Steel Piping Series.....	84
Grooved Mechanical Couplings	
SS-5 Rigid Coupling	85
SS-7 Rigid Coupling	86
SS-7X Rigid Coupling	87
SS-8 Flexible Coupling	88
SS-8X Heavy Duty Flexible Coupling	89
SS-1200 High Pressure Flexible Coupling	90
SS-28 Hinged Lever Coupling.....	91
Cast Grooved Fittings	
SS-10 / SS-11 / SS-20 / SS-60 Elbows, Tee & Cap	92
SS-21 / SS-50 Reducing Tee & Concentric Reducer.....	93
SS-21F / SS-50F Reducing Tee & Concentric Reducer	94
Flange Adapters	
SS-41 / SS-80 Flange Adapters.....	95
Mechanical Tee, Y-Strainer & Valves	
SS-723 Mechanical Tee	96
SS-726 Y-Strainer	97
SJ-600L / SJ-600W Ball Valves.....	98
SJ-400 Butterfly Valves	99
SJ-630 Three Port Ball Valve	100
Pressure Performance Data.....	101

Stainless Steel Series

Shurjoint 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.

Pressure ratings of stainless steel couplings

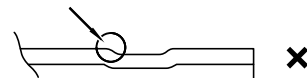
The design pressure rating of **Shurjoint** stainless steel grooved couplings follows Class 150 and is based on roll grooved Sch. 10S pipe. Pressure ratings will vary depending on the type of pipe used and grooves processed. See page 101 Performance Data Sheet for pressure ratings (CWP) when used with other pipe schedules and cut-grooved pipe.

Shurjoint ductile iron 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. See page 47 for performance data.

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



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 AvestaPolarit AB, 45D is a registered trademark of ESCO Corporation and SAF 2507 is a registered trademark of AB Sandvik Steel.

Model

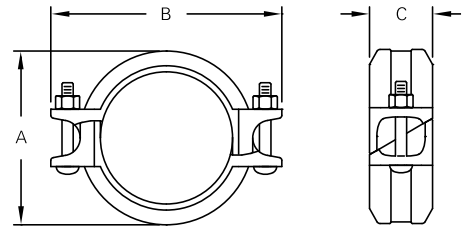
SS-5 Stainless Steel Rigid Coupling

- Angle-Pad Design -

The **Shurjoint** Model SS-5 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 SS-5 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 **Shurjoint** Model SS-5 is available with a standard "C" shaped or *GapSeal* gasket in a variety of grades to meet your specific service requirements.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)**	Max. End Load (CWP)	Axial Displacement †	Dimensions			Bolt		Weight
					A	B	C	No.	Size	
in	in	PSI	Lbs	in	in	in	in	2	3/8 x 2 1/8	Lbs
mm	mm	Bar	kN	mm	mm	mm	mm			Kgs
1 1/4	1,660	600	1298	0 ~ 0.05	2,60	4,00	1,81	2	3/8 x 2 1/8	1.4
32	42.2	42	5.77	0 ~ 1.2	66	102	46			0.6
1 1/2	1,900	600	1700	0 ~ 0.05	2,83	4,29	1,81	2	3/8 x 2 1/8	1.5
40	48.3	42	7.56	0 ~ 1.2	72	109	46			0.7
2	2,375	600	2657	0 ~ 0.07	3,35	4,61	1,85	2	3/8 x 2 3/4	1.7
50	60.3	42	11.82	0 ~ 1.7	85	117	47			0.8
2 1/2	2,875	600	3893	0 ~ 0.07	3,86	5,20	1,85	2	3/8 x 2 3/4	2.1
65	73.0	42	17.32	0 ~ 1.7	98	132	47			0.9
3	3,500	600	5770	0 ~ 0.07	4,45	5,83	1,88	2	3/8 x 2 3/4	2.6
80	88.9	42	25.67	0 ~ 1.7	113	148	48			1.2
4	4,500	600	9538	0 ~ 0.16	5,75	7,17	2,09	2	3/8 x 2 3/4	4.1
100	114.3	42	42.43	0 ~ 4.1	146	182	53			1.9
5	5,563	600	14576	0 ~ 0.16	6,89	9,02	2,09	2	1/2 x 3	5.7
125	141.3	42	64.84	0 ~ 4.1	175	229	53			2.6
6	6,625	600	20672	0 ~ 0.16	8,00	9,80	2,13	2	1/2 x 3	6.8
150	168.3	42	91.96	0 ~ 4.1	203	249	54			3.1
8	8,625	600	35038	0 ~ 0.19	10,40	12,99	2,52	2	5/8 x 4 3/4	13.4
200	219.1	42	155.86	0 ~ 4.8	264	330	64			6.1

**The working pressure shown is based on roll-grooved Sch. 40S pipe. For other pipe schedules and cut-grooved pipe, see page 101.

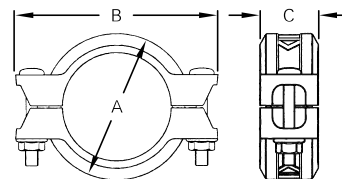
† Allowable Axial Displacement and Angular Movement (deflection) figures are for roll grooved standard steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for 3/4"/DN20 - 3 1/2"/DN90; 25% for 4"/DN100 and larger to compensate for jobsite conditions.

Model

SS-7 Stainless Steel Rigid Coupling

The Model SS-7 is a tongue and groove rigid coupling designed for a variety of moderate service pressure applications. The SS-7 is supplied standard in CF8 (304) and CF8M (316) with 304 and 316 bolts and nuts.

SS-7 couplings should always be installed so that the coupling bolt pads make metal to metal contact.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max End Load (CWP)	Axial Displacement †	Dimensions			Bolt Size	Weight
					A	B	C		
in	in	PSI	Lbs	in	in	in	in	in	Lbs
mm	mm	Bar	kN	mm	mm	mm	mm		Kgs
1½	1.660	600	1298	0-0.06	2.68	4.13	1.75	¾ x 2½	1.5
32	42.2	42	5.77	0-1.6	68	105	45	¾ x 2½	0.7
1½	1.900	600	1700	0-0.06	2.91	4.25	1.81	¾ x 2½	1.8
40	48.3	42	7.56	0-1.6	74	108	46	¾ x 2½	0.8
2	2.375	600	2657	0-0.06	3.39	4.92	1.81	¾ x 2½	2.0
50	60.3	42	11.82	0-1.6	86	125	46	¾ x 2½	0.9
2½	2.875	600	3893	0-0.06	3.94	5.43	1.81	¾ x 2½	1.8
65	73.0	42	17.32	0-1.6	100	138	46	¾ x 2½	0.8
76.1 mm	3.000	600	4239	0-0.06	3.94	5.63	1.81	¾ x 2½	2.2
	76.1	42	18.86	0-1.6	100	143	46		1.0
3	3.500	600	5770	0-0.06	4.41	6.30	1.81	¾ x 2½	2.6
80	88.9	42	25.67	0-1.6	112	160	46		1.2
4	4.500	600	9538	0-0.13	5.63	8.15	2.00	½ x 3	4.6
100	114.3	42	42.43	0-3.2	143	207	51		2.1
139.7 mm	5.500	600	14248	0-0.13	6.77	9.09	2.00	½ x 3	6.2
	139.7	42	63.38	0-3.2	172	231	51		2.8
5	5.563	600	14576	0-0.13	6.73	9.29	2.00	½ x 3	5.9
125	141.3	42	64.84	0-3.2	171	236	51		2.7
165.1 mm	6.500	600	19900	0-0.13	7.68	10.04	2.09	½ x 3	6.8
	165.1	42	88.52	0-3.2	195	255	53		3.1
6	6.625	600	20672	0-0.13	7.91	10.08	2.00	½ x 3	6.8
150	168.3	42	91.96	0-3.2	201	256	51		3.1
8	8.625	600	35038	0-0.13	10.39	13.11	2.44	¾ x 3½	14.1
200	219.1	42	155.86	0-3.2	264	333	62		6.4
200 JIS	8.516	600	34158	0-0.13	10.12	13.62	2.44	¾ x 3½	13.2
	216.3	42	151.95	0-3.2	257	346	62		6.0

* The working pressure shown is based on roll-grooved Sch. 40S pipe. For other pipe schedules, see page 101.

† Allowable Axial Displacement and Angular Movement (deflection) figures are for roll grooved standard steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for ¾"/DN20 - 3½"/DN90; 25% for 4"/DN100 and larger to compensate for jobsite conditions.

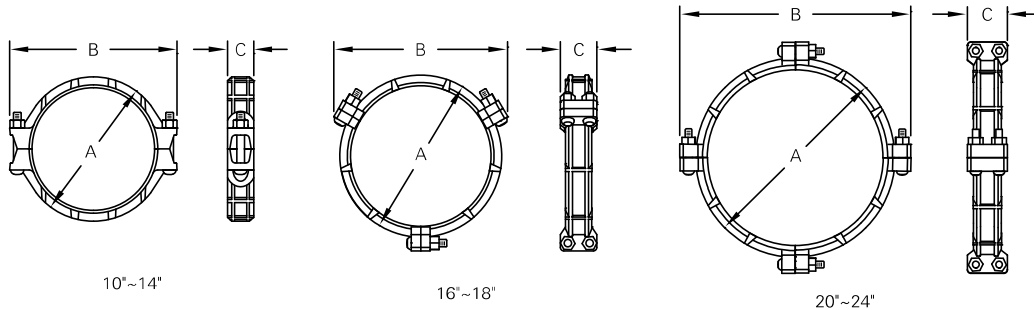


The tongue and groove style rigid coupling may allow for rotation when installed on deeper than specified grooves.

Model

SS-7X Stainless Steel Rigid Coupling

The Model SS-7X is a tongue and groove rigid coupling designed to provide a rigid joint for stainless steel pipe in sizes 10" through 24". The SS-7X 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.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Axial Displacement †	Dimensions			Bolt		Bolt Torque	Weight
					A	B	C	No.	Size		
in	in	PSI	Lbs	in	in	in	in			Lbs-Ft	Lbs
mm	mm	Bar	kN	mm	mm	mm	mm			Nm	Kgs
10	10.750	600	54430	0-0.13	12.52	15.98	2.56	2	¾ x 6½	105 - 175	23.1
250	273.0	42	239.87	0-3.2	318	406	65			145 - 235	10.5
12	12.750	600	76567	0-0.13	14.72	17.78	2.56	2	¾ x 6½	105 - 175	23.3
300	323.9	42	337.66	0-3.2	374	452	65			145 - 235	11.5
250 JIS	10.528	600	52205	0-0.13	12.44	16.73	2.52	2	¾ x 6½	105 - 175	18.7
	267.4	42	230.13	0-3.2	316	425	64			145 - 235	8.5
300 JIS	12.539	600	74054	0-0.13	14.57	18.31	2.52	2	¾ x 6½	105 - 175	21.6
	318.5	42	326.49	0-3.2	370	465	64			145 - 235	9.8
14	14.000	400	61544	0-0.13	15.63	19.69	2.95	2	¾ x 6½	105 - 175	33.0
350	355.6	28	277.94	0-3.2	397	500	75			145 - 235	15.0
16	16.000	400	80384	0-0.13	18.15	21.10	2.95	6	¾ x 3½	50 - 75	42.7
400	406.4	28	363.02	0-3.2	461	536	75			68 - 100	19.4
18	18.000	350	89019	0-0.13	20.24	23.11	2.95	6	¾ x 3½	50 - 75	55.0
450	457.2	24	393.82	0-3.2	514	587	75			68 - 100	25.0
20	20.000	350	109900	0-0.13	22.48	26.34	3.11	8	¾ x 4¾	65 - 150	72.8
500	508.0	24	486.19	0-3.2	571	669	79			85 - 200	33.1
22	22.000	300	113982	0-0.13	24.49	28.35	3.11	8	¾ x 4¾	65 - 150	72.6
550	558.8	20	490.24	0-3.2	622	720	79			85 - 200	33.0
24	24.000	300	135648	0-0.13	26.47	30.35	3.11	8	¾ x 4¾	65 - 150	76.3
600	609.6	20	583.43	0-3.2	673	771	79			85 - 200	34.7

* The working pressure shown is based on roll-grooved Sch. 40S pipe. For other pipe schedules, see page 101.

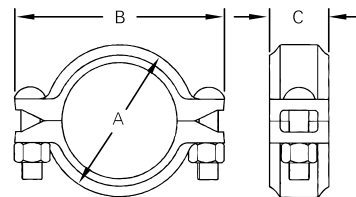
† Allowable Axial Displacement and Angular Movement (deflection) figures are for roll grooved standard steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for ¾/DN20 - 3½/DN90; 25% for 4"/DN100 and larger to compensate for jobsite conditions.

Model

SS-8 Stainless Steel Flexible Coupling

The Model SS-8 is a flexible coupling designed for a variety of general service and specialty applications. The SS-8 is supplied standard in CF8 (304) and CF8M

(316) with 304 or 316 bolts and nuts. SS-8 couplings should always be installed so that the coupling bolt pads make metal to metal contact.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Axial Displacement †	Dimensions			Deflection Degree †	Bolt Size	Weight
					A	B	C			
in	in	PSI	Lbs	in	in	in	in	(°)	in	Lbs
mm	mm	Bar	kN	mm	mm	mm	mm			Kgs
1	1.315	500	679	0 - 0.06	2.19	3.45	1.73	2° - 45'	5/16 x 1 1/2	1.1
25	33.4	35	3.02	0 - 1.6	55.7	87.5	44.0			0.5
1 1/4	1.660	500	1082	0 - 0.06	2.54	3.85	1.73	2° - 10'	5/16 x 1 1/2	1.1
32	42.2	35	4.81	0 - 1.6	64.6	97.8	44.0			0.5
1 1/2	1.900	500	1417	0 - 0.06	2.79	4.14	1.73	1° - 54'	5/16 x 1 1/2	1.1
40	48.3	35	6.30	0 - 1.6	70.8	105.1	44.0			0.5
2	2.375	500	2214	0 - 0.06	3.28	4.88	1.73	1° - 31'	3/8 x 2 1/8	1.5
50	60.3	35	9.85	0 - 1.6	83.0	124.0	44.0			0.7
2 1/2	2.875	500	3244	0 - 0.06	3.79	5.51	1.73	1° - 15'	3/8 x 2 1/8	1.8
65	73.0	35	14.43	0 - 1.6	96.2	139.9	44.0			0.8
76.1 mm	3.000	500	3533	0 - 0.06	3.91	5.71	1.73	1° - 12'	3/8 x 2 1/8	1.8
	76.1	35	15.71	0 - 1.6	99.0	145.0	44.0			0.8
3	3.500	500	4808	0 - 0.06	4.39	6.18	1.73	1° - 02'	3/8 x 2 1/8	2.2
80	88.9	35	21.39	0 - 1.6	111.0	157.0	44.0			1.0
4	4.500	425	5166	0 - 0.13	5.62	7.87	1.97	1° - 36'	1/2 x 3	3.7
100	114.3	29	22.98	0 - 3.2	143.0	200.0	50.0			1.7
139.7 mm	5.500	425	4749	0 - 0.13	6.73	9.09	1.97	1° - 18'	1/2 x 3	4.8
	139.7	29	21.13	0 - 3.2	171.0	231.0	50.0			2.2
5	5.563	425	4859	0 - 0.13	6.72	8.90	1.97	1° - 18'	1/2 x 3	4.8
125	141.3	29	21.61	0 - 3.2	170.8	226.1	50.0			2.2
165.1 mm	6.500	425	6633	0 - 0.13	7.67	9.96	2.09	1° - 07'	1/2 x 3	5.9
	165.1	29	29.51	0 - 3.2	194.0	253.0	53.0			2.7
6	6.625	425	6891	0 - 0.13	7.80	9.96	2.09	1° - 05'	1/2 x 3	6.4
150	168.3	29	30.65	0 - 3.2	198.0	253.1	53.0			2.9
8	8.625	300	11386	0 - 0.13	10.04	13.27	2.44	0° - 50'	3/4 x 4 3/4	14.1
200	219.1	20	50.65	0 - 3.2	255.0	337.0	62.0			6.4
200 JIS	8.516	300	11679	0 - 0.13	10.00	13.62	2.40	0° - 51'	5/8 x 3 1/2	11.3
	216.3	20	51.95	0 - 3.2	251.0	346.0	60.0			5.1

* The working pressure shown is based on roll-grooved Sch. 40S pipe. For other pipe schedules and cut-grooved pipe, see page 102.

† Allowable Axial Displacement and Angular Movement (deflection) figures are for roll grooved standard steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for 3/4"/DN20 - 3 1/2"/DN90; 25% for 4"/DN100 and larger to compensate for jobsite conditions.

Model

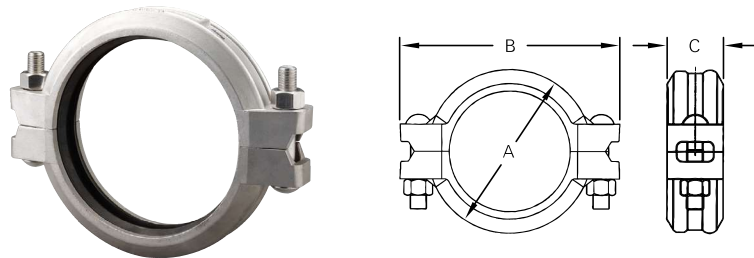
SS-8X Stainless Steel Heavy Duty Flexible Coupling

The Model SS-8X is designed for high pressure applications including reverse osmosis and desalination systems. The SS-8X is available in stainless steel 304, stainless steel 316, Duplex CD3MN (2205),

Super Duplex CE8MN, CE3MN (2507) and 6-Moly stainless steel CK3MCuN (254SMO*). The SS-8X features 316 bolts, washers and Silicon Bronze nuts to help prevent galling during repetitive use.

The SS-8X is also available in CF8M (316) with 316 bolts and nuts. Contact **Shurjoint** for details.

* 254SMO is a registered trademark of AvestaPolarit AB.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Axial Displacement †	Dimensions			Deflection Degree †	Bolt		Weight
					A	B	C		No	Size	
in	in	PSI	Lbs	in	in	in	in	(°)			Lbs
mm	mm	Bar	kN	mm	mm	mm	mm				Kgs
¾	1.050	750	1212	0 - 0.06	2.20	3.75	1.81	3° - 23'	2	¾ x 2½	1.5
20	26.7	52	5.39	0 - 1.6	56.0	95.0	46.0				0.7
1	1.315	750	1900	0 - 0.06	2.45	3.91	1.81	2° - 45'	2	¾ x 2½	1.8
25	33.4	52	8.45	0 - 1.6	63.0	99.0	46.0				0.8
1¼	1.660	750	3028	0 - 0.06	2.82	4.37	1.81	2° - 10'	2	¾ x 2½	2.0
32	42.2	52	13.47	0 - 1.6	72.0	111.0	46.0				0.9
1½	1.900	750	3967	0 - 0.06	3.06	4.82	1.81	1° - 54'	2	¾ x 2½	2.2
40	48.3	52	17.65	0 - 1.6	78.0	123.0	46.0				1.0
2	2.375	750	6199	0 - 0.06	3.46	5.28	1.85	1° - 31'	2	¾ x 2½	2.6
50	60.3	52	27.58	0 - 1.6	88.0	134.0	47.0				1.2
2½	2.875	750	9084	0 - 0.06	6.02	4.06	1.85	1° - 15'	2	¾ x 2½	2.9
65	73.0	52	40.41	0 - 1.6	153.0	103.0	47.0				1.3
3	3.500	750	13463	0 - 0.06	4.71	6.74	1.85	1° - 02'	2	½ x 3	4.0
80	88.9	52	59.89	0 - 1.6	120.0	171.0	47.0				1.8
4	4.500	750	22255	0 - 0.13	5.98	7.90	2.03	1° - 36'	2	½ x 3	5.3
100	114.3	52	99.00	0 - 3.2	152.0	201.0	52.0				2.4
5	5.563	750	24293	0 - 0.13	7.13	9.80	2.09	1° - 18'	2	¾ x 3½	7.7
125	141.3	52	108.07	0 - 3.2	181.0	249.0	53.0				3.5
6	6.625	500	34454	0 - 0.13	8.19	10.85	2.09	1° - 05'	2	¾ x 3½	8.8
150	168.3	35	153.27	0 - 3.2	208.0	276.0	53.0				4.0
8	8.625	425	58397	0 - 0.13	10.53	13.43	2.44	0° - 50'	2	¾ x 4¾	15.0
200	219.1	29	259.77	0 - 3.2	267.0	341.0	62.0				6.8
200 JIS	8.516	425	56930	0 - 0.13	10.39	13.31	2.44	0° - 51'	2	¾ x 4¾	14.3
	216.3	29	253.25	0 - 3.2	264.0	338.0	62.0				6.5

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.

* The working pressure shown is based on cut-grooved Sch. 40S or 80S pipe. For other pipe schedules and roll-grooved pipe, see page 102.

† Axial Displacement and deflection figures are for roll grooved standard weight stainless steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for ¾/DN20 - 3½/DN90; 25% for 4/DN100 and larger to compensate for jobsite conditions.

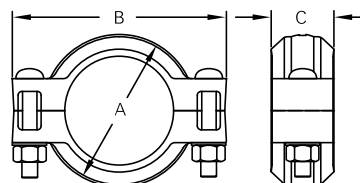
Model

SS-1200 Stainless Steel High Pressure Flexible Coupling

The Model SS-1200 is designed for high pressure applications including reverse osmosis, desalination and other specialty systems. The SS-1200 is available in strong and anti-corrosive alloys of Duplex CD3MN (2205), Super Duplex CE8MN, CE3MN

(2507) and 6-Moly stainless steel CK3MCuN (254SMO*). The SS-1200 features 316 bolts, washers and Silicon Bronze nuts to help prevent galling during repetitive use.

* 254SMO is a registered trademark of AvestaPolaris AB.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)**	Max. End Load (CWP)	Axial Displacement †	Dimensions			Deflection Degree †	Bolt		Weight
					A	B	C		No	Size	
in	in	PSI	Lbs	in	in	in	in	(°)		in	Lbs
mm	mm	Bar	kN	mm	mm	mm	mm				Kgs
1	1.315	1200	1630	0 - 0.06	2.36	3.90	1.81	2° - 45'	2	¾ x 2½	1.21
25	33.4	83	7.25	0 - 1.6	60	99	46				0.55
1¼	1.660	1200	2595	0 - 0.06	2.76	4.17	1.81	2° - 10'	2	¾ x 2½	1.39
32	42.2	83	11.55	0 - 1.6	70	106	46				0.63
1½	1.900	1200	3400	0 - 0.06	2.99	4.45	1.81	1° - 54'	2	¾ x 2½	1.54
40	48.3	83	15.13	0 - 1.6	76	113	46				0.70
2	2.375	1200	5315	0 - 0.06	3.50	5.31	1.85	1° - 31'	2	½ x 3	2.29
50	60.3	83	23.64	0 - 1.6	89	135	47				1.04
76.1 mm	3.000	1200	8470	0 - 0.06	4.01	6.04	1.91	1° - 15'	2	½ x 3	3.04
	76.1	83	38.19	0 - 1.6	102	153	49				1.38
3	3.500	1200	11540	0 - 0.06	4.69	6.61	1.85	1° - 02'	2	½ x 3	3.41
80	88.9	83	51.33	0 - 1.6	119	168	49				1.55
4	4.500	1200	19075	0 - 0.13	5.79	7.80	2.03	1° - 36'	2	½ x 3	4.69
100	114.3	83	84.86	0 - 3.2	147	198	52				2.13
6	6.625	1200	41346	0 - 0.13	7.95	10.71	2.05	1° - 05'	2	¾ x 3½	7.82
150	168.3	83	183.92	0 - 3.2	202	272	52				3.55
8	8.625	1200	68316	0 - 0.13	10.23	14.13	2.44	0° - 50'	2	¾ x 5½	15.55
200	219.1	83	30388	0 - 3.2	260	359	62				7.06

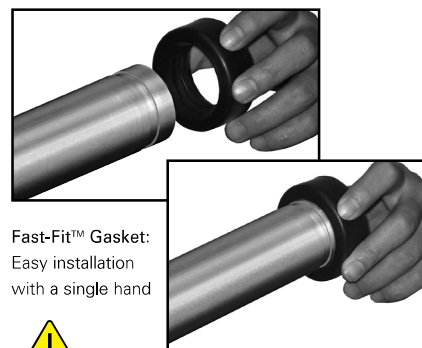
Working pressure ratings are based upon generally accepted pressure piping design standards and testing in accordance with ASME Section VIII Division 1 pressure vessel test methods.

** The working pressure shown is based on cut-grooved Sch. 40S or 80S pipe only. Burst test pressures are minimum 2 times the maximum working pressures.

† Allowable Axial Displacement and Angular Movement (deflection) figures are for roll grooved standard steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for ¾/DN20 - 3½/DN90; 25% for 4"/DN100 and larger to compensate for jobsite conditions.

The **Shurjoint Fast-fit™** gasket has been designed and engineered for easier and faster installations. The pipe-end friendly design eliminates struggling to stretch the gasket over the pipe ends and the Fast-fit™ gasket also features **Shurjoint's** Gap-Seal technology, which seals the gap between the pipe ends and eliminates stagnant water pockets within the gasket cavity. The Fast-fit™ gasket is UL classified in accordance with NSF/ANSI 61 and NSF/ANSI 372 for potable water (Cold Water +86°F / 30°C and Hot Water +180°F / +82°C).

Always use the factory supplied **Shurjoint Fast-fit™** gasket. Performance standards do not support the use of a standard gasket in the SS-1200 coupling.



Fast-Fit™ Gasket:
Easy installation
with a single hand



Always use the **Shurjoint Fast-fit™** gasket. Do not use a standard gasket with the SS-1200 coupling.

Model

SS-28 Stainless Steel Hinged Lever Coupling

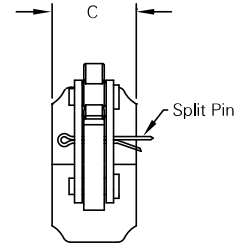
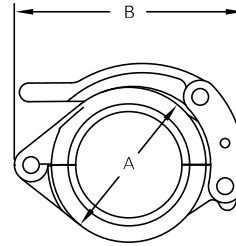
The Model SS-28 Hinged Grooved Coupling is designed for quick connect and disconnect services. The housing segments are hinged with a lever handle for easy assembly. Use of the split pin can prevent the accidental opening of the coupling. The

Model SS-28 can be used in a wide variety of applications with standard roll- or cut-grooved pipe. Housings 1½" - 4" (40 mm - 100 mm) feature a smooth outer surface, housings 5" - 12" (125 mm - 300 mm) feature a cross-ribbed design for added

strength.

Standard gasket: Grade "E" EPDM or Grade "T" Nitrile.

Available standard in CF8 (304) or CF8M (316).



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)**	Max End Load (CWP)	Axial Displacement †	Dimensions			Deflection Degree †	Weight
					A	B	C		
in	in	PSI	Lbs	in	in	in	in	(°)	Lbs
mm	mm	Bar	kN	mm	mm	mm	mm		Kgs
1½*	1.900	300	1700	0 - 0.06	2.95	4.65	1.85	3° - 48'	2.2
40	48.3	20	7.56	0 - 1.6	75	118	47		1.0
2	2.375	300	2657	0 - 0.06	3.39	4.76	1.89	3° - 31'	2.4
50	60.3	20	11.82	0 - 1.6	86	121	48		1.1
3	3.500	300	5770	0 - 0.06	4.69	6.42	1.89	2° - 24'	4.0
80	88.9	20	25.67	0 - 1.6	119	163	48		1.8
4	4.500	300	9538	0 - 0.13	6.50	8.07	2.05	3° - 12'	5.9
100	114.3	20	42.43	0 - 3.2	165	205	52		2.7
5	5.563	200	9717	0 - 0.13	7.44	9.96	2.05	2° - 36'	10.8
125	141.3	14	43.23	0 - 3.2	189	253	52		4.9
6	6.625	200	13782	0 - 0.13	8.50	11.06	2.05	2° - 10'	12.8
150	168.3	14	61.31	0 - 3.2	216	281	52		5.8

** The working pressure shown is based on roll-grooved Sch. 40S pipe. For other pipe schedules and cut-grooved pipe, see page 102.

† Allowable Axial Displacement and Angular Movement (deflection) figures are for roll grooved standard steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for ¾"/DN20 - 3½"/DN90; 25% for 4"/DN100 and larger to compensate for jobsite conditions.

* Non-standard/stock items may require longer lead time.



Expansion Pipe

Lever handles are factory assembled tight for safety. The use of an expansion pipe will aid the easy opening and closing. Expansion pipes are available upon request.



Cast Grooved Fittings

Model

SS-10 90° Elbow

SS-11 45° Elbow

SS-20 Tee

SS-60 Cap

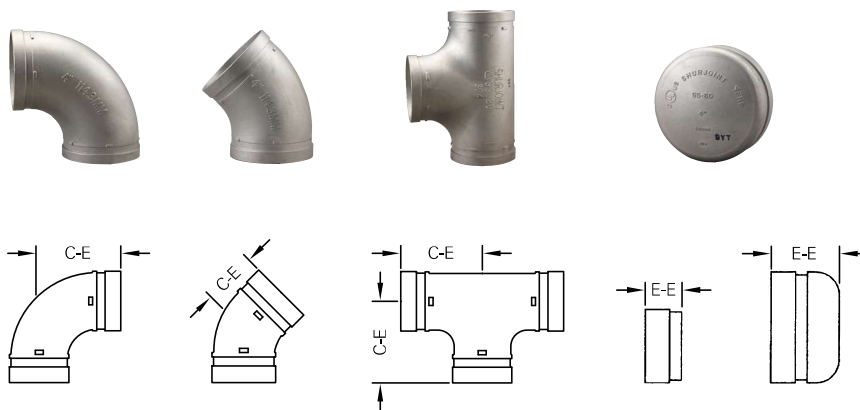
The Shurjoint Model SS-10, SS-11, SS-20 and SS-60 stainless steel grooved fittings are investment cast in sizes 1" - 12". These fittings are supplied in ASTM A351 or A743 austenitic grades CF8 (304) and CF8M (316). Materials are in compliance

with NSF/ANSI 372 for potable water service applications. 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 cast fittings feature full flow characteristics and are designed to the same C - E dimensions of standard ductile iron grooved fittings.

* 254SMO is a registered trademark of AvestaPolarit AB.



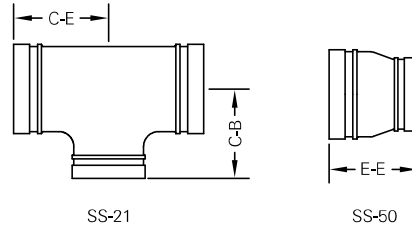
Nominal Size	Pipe O.D.	SS-10 90° Elbow		SS-11 45° Elbow		SS-20 Tee		SS-60 Cap	
		C - E	Weight	C - E	Weight	C - E	Weight	E - E	Weight
in	in	in	Lbs	in	Lbs	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs
1	1.315	2.25	0.7	1.75	0.4	2.25	0.9	0.94	0.2
25	33.4	57	0.3	45	0.2	57	0.4	24	0.1
1¼	1.660	2.75	0.9	1.75	0.7	2.75	1.5	0.94	0.2
32	42.2	70	0.4	45	0.3	70	0.7	24	0.1
1½	1.900	2.75	0.9	1.75	0.9	2.75	1.8	0.94	0.4
40	48.3	70	0.4	45	0.4	70	0.8	24	0.2
2	2.375	3.25	1.3	2.00	1.1	3.25	2.4	0.94	0.4
50	60.3	83	0.6	51	0.5	83	1.1	24	0.2
2½	2.875	3.75	3.1	2.10	2.2	3.75	5.5	1.75	0.9
65	73.0	95	1.4	54	1.0	95	2.5	45	0.4
76.1 mm	3.000	3.75	3.5	2.25	2.2	3.75	5.5	1.75	0.9
	76.1	95	1.6	57	1.0	95	2.5	45	0.4
3	3.500	4.25	2.9	2.50	2.2	4.25	4.6	2.00	1.5
80	88.9	108	1.3	64	1.0	108	2.1	51	0.7
4	4.500	5.00	4.8	3.00	3.5	5.00	7.5	2.00	2.0
100	114.3	127	2.2	76	1.6	127	3.4	51	0.9
139.7 mm	5.500	5.50	8.6	3.25	6.2	5.50	12.3	2.38	3.5
	139.7	140	3.9	83	2.8	140	5.6	60	1.6
5	5.563	5.50	8.6	3.25	6.4	5.50	12.8	2.38	3.3
125	141.3	140	3.9	83	2.9	140	5.8	60	1.5
165.1 mm	6.500	6.50	13.6	3.50	9.0	6.50	19.8	3.00	5.7
	165.1	165	6.2	89	4.1	165	9.0	76	2.6
6	6.625	6.50	14.3	3.50	9.2	6.50	21.3	3.00	5.3
150	168.3	165	6.5	89	4.2	165	9.7	76	2.4
8	8.625	7.75	23.5	4.25	15.6	7.75	41.4	3.50	11.4
200	219.1	197	10.7	108	7.1	197	18.8	90	5.2
10	10.750	—	—	6.25	37.0	—	—	5.00	22.4
250	273.0	—	—	159	16.8	—	—	127	10.2
12	12.750	—	—	—	—	—	—	6.00	32.3
300	323.9	—	—	—	—	—	—	154	14.7
200 JIS	8.516	7.75	24.6	4.25	15.6	7.75	30.4	3.50	9.2
	216.3	197	11.2	108	7.1	197	13.8	90	4.2
250 JIS	10.528	—	—	6.25	37.0	—	—	5.00	19.6
	267.4	—	—	159	16.8	—	—	127	8.9
300 JIS	12.539	—	—	—	—	—	—	6.00	29.7
	318.5	—	—	—	—	—	—	154	13.5

Model

SS-21 Reducing Tee SS-50 Concentric Reducer

The **Shurjoint** Model SS-21 and SS-50 stainless steel fittings are investment cast in sizes to 8" and sand cast or wrought in sizes 10" - 24".

Materials are in compliance with NSF/ANSI 372 for potable water service applications.



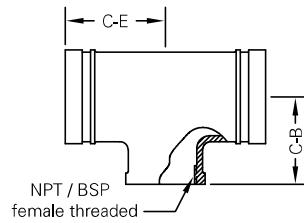
Nominal Size	Pipe O.D.	SS-21 Reducing Tee			SS-50 Concentric Reducer		Nominal Size	Pipe O.D.	SS-21 Reducing Tee			SS-50 Concentric Reducer	
		C-E	C-B	Weight	E - E	Weight			C-E	C-B	Weight	E - E	Weight
in	in	in	in	Lbs	in	Lbs	in	in	in	in	Lbs	in	Lbs
mm	mm	mm	mm	Kgs	mm	Kgs	mm	mm	mm	mm	Kgs	mm	Kgs
1½ x 1	1,660 x 1,315	2.76	2.76	1.2	2.50	0.5	139.7 mm x 100	5,500 x 4,500	5.50	5.50	11.2	3.50	3.5
32 x 25	42.2 x 33.4	70	70	0.6	64	0.2	125 x 100	139.7 x 114.3	140	140	5.1	89	1.6
1½ x 1	1,900 x 1,315	2.76	2.76	1.3	2.50	0.6	5 x 4	5,563 x 4,500	5.50	5.50	11.2	3.50	3.5
40 x 25	48.3 x 33.4	70	70	0.6	64	0.3	125 x 100	141.3 x 114.3	140	140	5.1	89	1.6
1½ x 1½	1,900 x 1,660	2.76	2.76	1.3	2.50	0.7	165.1 mm	6,500 x 3,500	5.91	5.91	15.6	4.00	5.1
40 x 32	48.3 x 42.2	70	70	0.6	64	0.3	x 80	165.1 x 88.9	150	150	7.1	102	2.3
2 x 1	2,375 x 1,315	2.76	2.76	1.5	2.50	0.8	165.1 mm	6,500 x 4,500	6.50	6.50	19.4	4.00	5.1
50 x 25	60.3 x 33.4	70	70	0.7	64	0.3	x 100	165.1 x 114.3	165	165	8.8	102	2.3
2 x 1½	2,375 x 1,660	2.76	2.76	1.8	2.50	0.7	165.1 mm	6,500 x 5,500	6.50	6.50	19.4	4.00	5.7
50 x 32	60.3 x 42.2	70	70	0.8	64	0.7	x 139.7 mm	165.1 x 139.7	165	165	8.8	102	2.6
2 x 1½	2,375 x 1,900	2.76	2.76	1.8	2.50	0.7	6 x 3	6,625 x 3,500	5.91	5.91	15.6	4.00	5.1
50 x 40	60.3 x 48.3	70	70	0.8	64	0.3	150 x 80	168.3 x 88.9	150	150	7.1	102	2.3
2½ x 1	2,875 x 1,315	3.74	3.74	2.0	2.50	0.9	6 x 4	6,625 x 4,500	6.50	6.50	19.4	4.00	5.1
65 x 25	73.0 x 33.4	95	95	0.9	64	0.4	150 x 100	168.3 x 114.3	165	165	8.8	102	2.3
2½ x 1½	2,875 x 1,660	3.74	3.74	2.0	2.50	1.1	6 x 5	6,625 x 5,563	6.50	6.50	19.4	4.00	5.7
65 x 32	73.0 x 42.2	95	95	0.9	64	0.5	150 x 125	168.3 x 141.3	165	165	8.8	102	2.6
2½ x 1½	2,875 x 1,900	3.74	3.74	2.0	2.50	1.2	8 x 4	8,625 x 4,500	7.76	7.76	35.4	5.00	9.5
65 x 40	73.0 x 48.3	95	95	0.9	64	0.5	200 x 100	219.1 x 114.3	197	197	16.1	127	4.3
2½ x 2	2,875 x 2,375	3.00	3.00	4.1	2.50	1.1	8 x 5	8,625 x 5,563	7.76	7.76	35.5	5.00	11.9
65 x 50	73.0 x 60.3	76	76	1.9	64	0.5	200 x 125	219.1 x 141.3	197	197	16.3	127	5.4
76.1 mm x 25	3,000 x 1,315	3.74	3.74	2.0	2.50	0.9	8 x 6	8,625 x 6,625	7.76	7.76	54.1	5.00	9.5
	76.1 x 33.4	95	95	0.9	64	0.4	200 x 150	219.1 x 168.3	197	197	24.6	127	4.3
76.1 mm x 32	3,000 x 1,660	3.74	3.74	2.0	2.50	1.1	10 x 6	10,750 x 6,625	9.02	9.02	59.2	6.00	18.3
	76.1 x 42.2	95	95	0.9	64	0.5	250 x 150	273.0 x 168.3	229	229	26.9	152	8.3
76.1 mm x 40	3,000 x 1,900	3.74	3.74	2.0	2.50	1.2	10 x 8	10,750 x 8,625	9.02	9.02	60.1	6.00	19.1
	76.1 x 48.3	95	95	0.9	64	0.5	250 x 200	273.0 x 219.1	229	229	27.3	152	8.7
76.1 mm x 50	3,000 x 2,375	3.00	3.00	3.3	2.50	1.1	12 x 8	12,750 x 8,625	10.00	10.00	56.1	7.00	49.5
	76.1 x 60.3	76	76	1.5	64	0.5	300 x 200	323.9 x 219.1	254	254	25.5	178	22.0
3 x 1½	3,500 x 1,660	4.25	4.25	3.5	2.50	1.1	12 x 10	12,750 x 10,750	10.00	10.00	57.2	7.00	23.1
80 x 32	88.9 x 42.2	108	108	1.6	64	0.5	300 x 250	323.9 x 273.0	254	254	26.0	178	11.3
3 x 1½	3,500 x 1,900	4.25	4.25	2.9	2.50	1.5		8,516 x 4,500	7.76	7.76	35.4	5.00	9.5
80 x 40	88.9 x 48.3	108	108	1.3	64	0.6	200 JIS x 100	216.3 x 114.3	197	197	16.1	127	4.3
3 x 2	3,500 x 2,375	4.25	4.25	4.6	2.50	1.3		8,516 x 5,500	7.76	7.76	28.6	5.00	11.9
80 x 50	88.9 x 60.3	108	108	2.1	64	0.6	200 JIS x 125	216.3 x 139.7	197	197	13.0	127	5.4
3 x 2½	3,500 x 2,875	3.74	3.27	6.0	3.50	2.2	200 JIS x	8,516 x 6,500	7.76	7.76	54.1	5.00	9.5
80 x 65	88.9 x 73.0	95	83	2.7	89	1.0	165.1 mm	216.3 x 165.1	197	197	24.6	127	4.3
80 x 76.1 mm	3,500 x 3,000	3.74	3.27	4.6	3.50	2.2	250 JIS	10,528 x 6,500	9.02	9.02	59.2	6.00	18.3
	88.9 x 76.1	95	83	2.1	89	1.0	x 165.1 mm	267.4 x 165.1	229	229	26.9	152	8.3
4 x 2	4,500 x 2,375	5.00	5.00	7.3	3.00	2.2	250 JIS	10,528 x 8,516	9.02	9.02	60.1	6.00	19.1
100 x 50	114.3 x 60.3	127	127	3.3	76	1.0	x 200 JIS	267.4 x 216.3	229	229	27.3	152	8.7
4 x 2½	4,500 x 2,875	4.49	3.86	8.8	4.00	3.1	300 JIS	12,539 x 8,516	10.00	10.00	56.1	7.00	49.5
100 x 65	114.3 x 73.0	114	98	4.0	102	1.4	x 200 JIS	318.5 x 216.3	254	254	25.5	178	22.0
100 x 76.1 mm	4,500 x 3,000	4.49	3.86	9.0	4.00	3.1	300 JIS	12,539 x 10,528	10.00	10.00	57.2	7.00	23.1
	114.3 x 76.1	114	98	4.1	102	1.4	x 250 JIS	318.5 x 267.4	254	254	26.0	178	11.3
4 x 3	4,500 x 3,500	4.49	3.86	7.0	3.00	2.0							
100 x 80	114.3 x 88.9	114	98	3.2	76	0.9							

Model

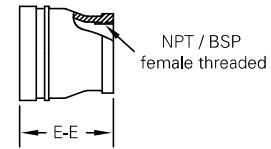
SS-21F Reducing Tee (GR X GR X FT) **SS-50F Concentric Reducer (GR X FT)**

The **Shurjoint** Model SS-21F and SS-50F stainless steel fittings are investment cast in sizes from 2½" to 4".

Materials are in compliance with NSF/ANSI 372 for potable water service applications.



SS-21F



SS-50F

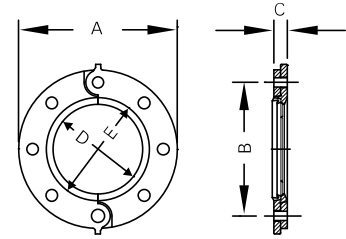
Nominal Size mm	Pipe O.D. mm	SS-21F Reducing Tee		Weight Kgs	SS-50F Concentric Reducer	
		C-E mm	C-B mm		E-E mm	Weight Kgs
65 x 40F	73.0/76.1 x 48.3	76	76	0.83	—	—
65 x 50F	73.0/76.1 x 60.3	—	—	—	89	0.95
80 x 50F	88.9 x 60.3	95	83	2.10	89	0.92
100 x 50F	114.3 x 60.3	114	98	3.20	102	1.76

* FT: NPT female threaded or BSP female threaded.

Model

SS-41 Flange Adapter - ANSI 125/150

The Model SS-41 stainless steel flange adapter allows for a direct connection with ANSI Class 125/150 flanges. The SS-41 is investment cast in Gr. CF8 (304) or CF8M (316). Integral closure tabs located on the flange O.D. help facilitate alignment and assembly.



2"~12"(hinged)

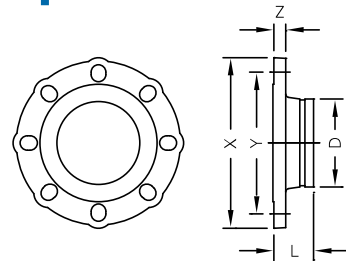
Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Dimensions			Sealing Surface		Bolt		Weight
				A	B	C	D	E	No.	Size	
in	in	PSI	Lbs	in	in	in	in	in			Lbs
mm	mm	Bar	kN	mm	mm	mm	mm	mm			Kgs
2	2.375	300	1330	6.00	4.75	0.75	2.28	3.07	4	5/8 x 3	4.6
50	60.3	20	5.71	152	121	19	58	78	4	5/8 x 3	2.1
2 1/2	2.875	300	1950	7.00	5.50	0.87	2.72	3.54	4	5/8 x 3	6.0
65	73.0	20	8.37	178	140	22	69	90	4	5/8 x 3	2.7
3	3.500	300	2880	7.52	6.00	0.94	3.35	4.17	4	5/8 x 3	6.8
80	88.9	20	12.41	191	152	24	85	106	4	5/8 x 3	3.1
4	4.500	300	4770	9.00	7.50	0.94	4.33	5.20	8	5/8 x 3	9.9
100	114.3	20	20.51	229	191	24	110	132	8	5/8 x 3	4.5
6	6.625	300	10340	11.00	9.50	1.00	6.46	7.32	8	3/4 x 3 1/2	12.9
150	168.3	20	44.47	279	241	25	164	186	8	3/4 x 3 1/2	5.8
8	8.625	300	17520	13.50	11.75	1.14	8.46	9.29	8	3/4 x 3 1/2	20.2
200	219.1	20	75.37	343	298	29	215	236	8	3/4 x 3 1/2	9.2

* The working pressure shown is based on roll-grooved Sch. 40S pipe.

Model

SS-80 Stainless Steel Universal Flange Adapter

The Model SS-80 Universal Flange Adapter provides for a rigid transition between a grooved piping system and a flanged piping system or component. The SS-80 can mate to ANSI 125/150, PN 10/16, BS-10E or JIS 10K, and is available standard in CF8 (304) or CF8M (316).



Nominal Size	Pipe O.D.	L	X	Y: Flange Drilling				Z	Bolt				Weight
				ANSI 125 / 150	PN 10	PN16	JIS 10K		ANSI 125 / 150	PN 10	PN16	JIS 10K	
in	in	in	in	in	in	in	in	in	Size	Size	Size	Size	Lbs
mm	mm	mm	mm	mm	mm	mm	mm	mm	No.	No.	No.	No.	Kgs
2	2.375	2.50	6.50	4.75	4.92	4.92	4.72	0.63	5/8	M16	M16	M16	4.4
50	60.3	64	165	121	125	125	120	16	4	4	4	4	2.0
2 1/2*	2.875	3.00	7.28	5.50	5.70	5.70	5.50	0.63	5/8	—	—	—	6.4
65	73.0	76	185	140	145	145	140	16	4	—	—	—	2.9
76.1 mm	3.000	3.00	7.28	5.50	5.70	5.70	5.50	0.63	—	M16	M16	M16	6.6
	76.1	76	185	140	145	145	140	16	—	4	4	4	3.0
3	3.500	2.95	7.78	6.00	6.30	6.30	5.90	0.63	5/8	M16	M16	M16	7.5
80	88.9	75	200	152	160	160	150	16	8	8	8	8	3.4
4	4.500	2.95	8.86	7.50	7.09	7.09	6.89	0.63	5/8	M16	M16	M16	8.6
100	114.3	75	225	191	180	180	175	16	8	8	8	8	3.9
5	5.563	2.95	10.00	8.50	8.27	8.27	8.27	0.87	3/4	—	—	—	14.7
125	141.3	75	254	216	210	210	210	22	8	—	—	—	6.7
6	6.625	2.95	10.71	9.50	9.45	9.45	9.45	0.63	3/4	—	—	—	15.2
150	168.3	75	272	241	240	240	240	16	8	—	—	—	6.9
8	8.625	4.00	13.50	11.75	11.61	11.61	—	0.87	3/4	M20	M20	—	31.9
200	219.1	102	343	298	295	295	—	22	8	8	16	—	14.5
200 JIS	8.516	4.00	13.50	11.75	11.61	11.61	11.42	0.87	—	—	—	M20	30.8
	216.3	102	343	298	295	295	290	22	—	—	—	12	14.0
10	10.750	3.94	16.00	14.25	13.77	14.00	14.00	1.18	7/8	M20	M24	M22	49.6
250	273.0	100	406	362	350	355	355	30	12	12	12	12	22.5
12	12.750	4.45	19.00	17.00	15.75	16.14	—	1.26	7/8	M20	M24	—	65.9
300	323.9	113	483	432	400	410	—	32	12	12	12	—	29.9

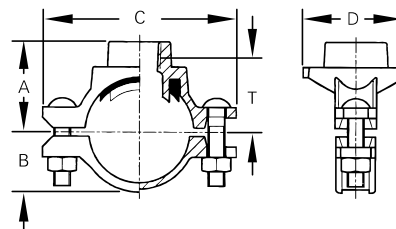
Contact Shurjoint for other sizes.

Model

SS-723 Stainless Steel Mechanical Tee

The Shurjoint Model SS-723 stainless steel mechanical tee is the ideal fitting for branch or direct outlet connections to sprinkler heads, drop nipples and or gauges on stainless steel pipe. No need for welding,

simply cut or drill a hole at the desired location, position the housing so that the locating collar fits within the hole and secure with the bolts and nuts.



Nominal Size Run x Branch	Max. Working Pressure (CWP)*	Hole Dia. † +0.063, -0 / +1.6, -0	Dimensions					Bolt Size	Weight
			A	B	C	D	T‡		
in	PSI	in	in	in	in	in	in	in	Lbs
mm	Bar	mm	mm	mm	mm	mm	mm		Kgs
1 1/4 x 1/2	300	1.18	1.60	1.02	3.44	1.93	1.06	5/16 x 1 1/2	0.7
32 x 15	20	30	41	26	87	49	27	5/16 x 1 1/2	0.3
1 1/4 x 3/4	300	1.18	1.70	1.02	3.44	1.93	1.14	5/16 x 1 1/2	0.7
32 x 20	20	30	44	26	87	49	29	5/16 x 1 1/2	0.3
1 1/4 x 1	300	1.18	2.00	1.02	3.44	1.93	1.34	5/16 x 1 1/2	0.9
32 x 25	20	30	51	26	87	49	34	5/16 x 1 1/2	0.4
1 1/2 x 1/2	300	1.18	1.70	1.13	3.54	1.93	1.18	5/16 x 1 1/2	0.7
40 x 15	20	30	44	29	90	49	30	5/16 x 1 1/2	0.3
1 1/2 x 3/4	300	1.18	1.81	1.13	3.54	1.93	1.22	5/16 x 1 1/2	0.7
40 x 20	20	30	46	29	90	49	31	5/16 x 1 1/2	0.3
1 1/2 x 1	300	1.18	2.09	1.13	3.54	1.93	1.42	5/16 x 1 1/2	0.9
40 x 25	20	30	53	29	90	49	36	5/16 x 1 1/2	0.4
2 x 1/2	300	1.18	2.00	1.42	4.28	2.00	1.46	3/8 x 2 1/8	1.1
50 x 15	20	30	51	36	109	51	37	3/8 x 2 1/8	0.5
2 x 3/4	300	1.18	2.09	1.42	4.28	2.00	1.50	3/8 x 2 1/8	1.1
50 x 20	20	30	53	36	109	51	38	3/8 x 2 1/8	0.5
2 x 1	300	1.18	2.37	1.42	4.28	2.00	1.69	3/8 x 2 1/8	1.1
50 x 25	20	30	60	36	109	51	43	3/8 x 2 1/8	0.6
3 x 1 1/2	300	1.18	3.50	2.13	6.22	3.43	2.76	1/2 x 3	4.2
80 x 40	20	30	89	54	158	87	70	1/2 x 3	1.9

* Working pressure is based on standard wall stainless steel pipe.

† Hole diameters listed are suggested hole diameters.

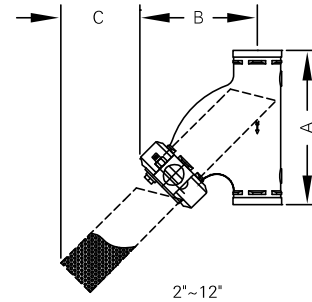
‡ T: Take-out (Center of run to end of pipe to be engaged)

Model

SS-726 Stainless Steel Y-Strainer

The Model SS-726 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. Cleaning and maintenance of the screen can be accomplished easily by removing the coupling. The Model SS-726 Stainless Steel Y-Strainer is suitable for vertical or horizontal installations.



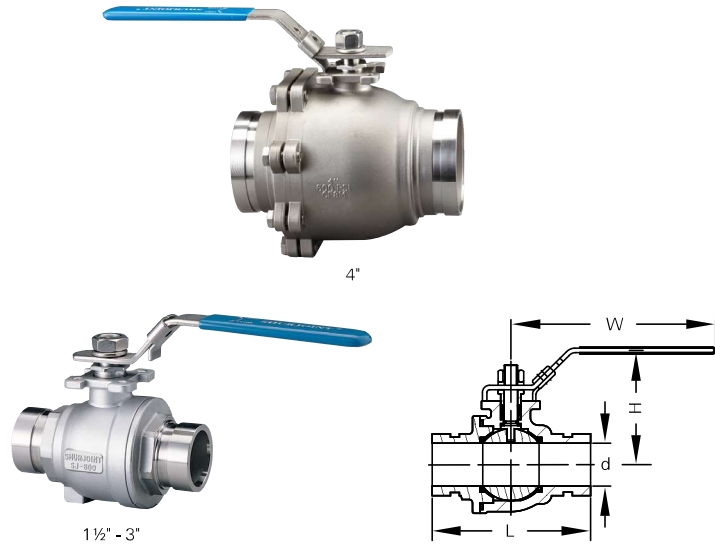
Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions			Drain Plug Size	Weight
			A	B	C		
in	in	PSI	in	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	mm	Kgs
2½	2.875	300	10.75	7.83	4.80	½	16.7
65	73.0	20	273	199	122	15	7.6
3	3.500	300	11.75	8.70	5.08	½	18.9
80	88.9	20	299	221	129	15	8.6
4	4.500	300	14.25	10.59	6.61	1	21.1
100	114.3	20	362	269	168	25	9.6
6	6.625	300	18.50	14.05	8.62	1	85.8
150	168.3	20	470	357	219	25	39.0

* Working pressure is based on connection with roll- or cut-grooved standard wall stainless steel pipe.

Model

SJ-600L Ball Valve

The Model SJ-600L is a two-piece, full-port stainless steel ball valve rated at 600 psi (42 Bar) and is available in CF8M (316). The SJ-600L 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.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Operating Torque†	Dimensions				Weight^
				L	H	W	d	
in	in	PSI	Lbs-in	in	in	in	in	Lbs
mm	mm	Bar	Nm	mm	mm	mm	mm	Kgs
1½	1.900	600	265	5.50	3.70	7.60	1.50	6.6
40	48.3	42	30	140	94	193	38	3.0
2	2.375	600	354	6.15	4.13	7.60	1.97	8.8
50	60.3	42	40	156	105	193	50	4.0
2½	2.875	600	442	7.09	4.33	9.84	2.56	15.4
65	73.0	42	50	180	110	250	65	7.0
3	3.500	600	619	8.42	6.00	9.84	3.07	20.7
80	88.9	42	70	214	152	250	78	9.4
4	4.500	600	973	9.45	6.57	11.42	3.94	55.0
100	114.3	42	110	240	167	290	100	25.0

* Working pressure is for connection with cut- or roll-grooved schedule Sch. 40S pipe.

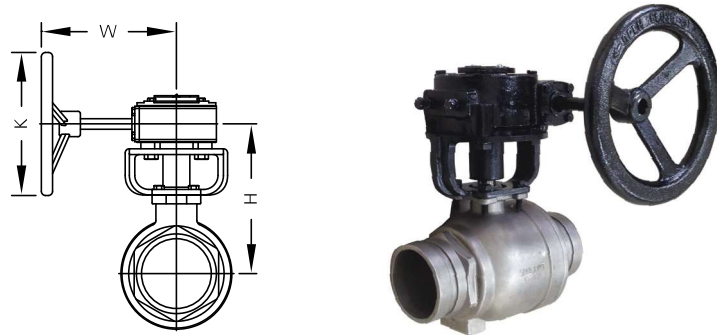
† For the first opening or closing of the valve when the valve is not continuously operated, an additional torque of 2.0 – 2.5 times the listed operating torque is normally required.

^ The weight includes the lever handle.

Model

SJ-600W Ball Valve

The Model SJ-600W is supplied with a worm gear operator. The standard gear operator is supplied with a bracket and extension sleeve. Sizes available are 2" (50 mm) through 4" (100 mm).



Nominal Size	Pipe O.D.	Dimensions			Weight
		K	H	W	
in	in	in	in	in	Lbs
mm	mm	mm	mm	mm	Kgs
2	2.375	5.98	5.38	8.00	17.82
50	60.3	152	137	203	8.10
2½	2.875	5.98	5.68	8.00	24.42
65	73.0	152	145	203	11.10
3	3.500	5.98	7.16	8.00	29.70
80	88.9	152	182	203	13.50
4	4.500	5.98	8.00	8.00	63.80
100	114.3	152	203	203	29.0

* The weight includes the worm gear operator.

Model

SJ-400 Butterfly Valve

The Shurjoint Model SJ-400 Butterfly Valve is a grooved end stainless steel butterfly valve, supplied with a 10 position lever handle (SJ-400L) or worm gear operator (SJ-400W). The end-to-end dimensions conform to MSS SP-67. The body is available in CF8M (316) to

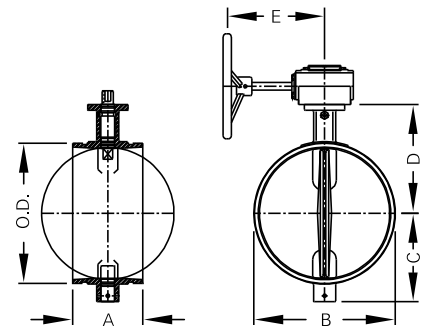
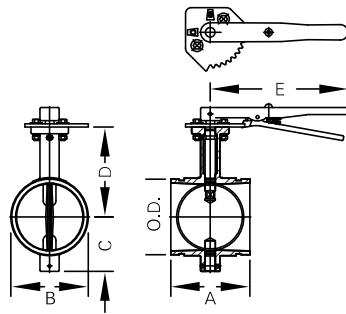
ASTM A743 with integral neck and ISO 5211 mounting pad. It features a dual seal disc encapsulated with Gr. E-pw EPDM for cold and hot water services. The end-to-end dimensions conform to MSS SP-67.



SJ-400L
2" - 12"



SJ-400W
2" - 12"



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)**	Dimensions					Operating Torque	Weight†
			A	B	C	D	E		
in	in	PSI	in	in	in	in	in	Lbs-in	Lbs
mm	mm	Bar	mm	mm	mm	mm	mm	Nm	Kgs
2	2.375	300	3.19	2.520	2.480	4.17	7.56	78	5.0
50	60.3	20	81	64	63	106	192	8.80	2.3
2½	2.875	300	3.81	3.150	2.677	4.28	7.56	84	7.0
65	73.0	20	97	80	68	111	192	9.50	3.2
76.1 mm	3.000	300	3.81	3.150	2.677	4.28	7.56	84	7.0
	76.1	20	97	80	68	111	192	9.50	3.2
3	3.500	300	3.81	3.622	2.992	4.97	7.56	95	6.6
80	88.9	20	97	92	76	126	192	10.7	3.5
4	4.500	300	4.56	4.646	3.504	5.33	9.92	200	11.0
100	114.3	20	116	118	89	135	252	22.6	5.0
139.7 mm	5.500	300	5.81	5.708	4.015	6.61	9.92	265	15.9
	139.7	20	148	145	102	168	252	29.9	7.2
5	5.563	300	5.81	5.708	4.015	6.61	9.92	265	16.1
125	141.3	20	148	145	102	168	252	29.9	7.3
165.1 mm	3.000	300	5.81	6.772	4.488	7.25	9.92	310	20.2
	165.1	20	148	172	114	184	252	34.9	9.2
6	6.625	300	5.81	6.772	4.488	7.25	9.92	310	20.2
150	168.3	20	148	172	114	184	252	34.9	9.2
200 JIS*	8.516	300	5.24	8.740	5.512	8.20	13.46	400	26.8
	216.3	20	133	222	140	208	342	45.1	12.2
8	8.625	300	5.24	8.740	5.512	8.20	13.46	400	26.8
200	219.1	20	133	222	140	208	342	45.1	12.2
10	10.75	150	6.3	11.181	7.32	9.25	14.02	1500	62.3
250	273	10	160	284	186	235	356	170	28.3
12	12.75	150	6.56	13.150	6.39	10.24	14.02	2000	88.1
300	323.9	10	166	334	213	260	356	226	40

† The weight includes the lever handle.

* Non-standard/stock items may require longer lead time.

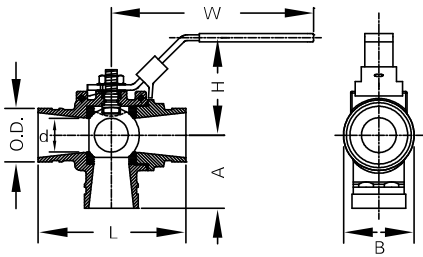
** Working pressure is based on connection with roll- or cut-grooved standard wall stainless steel pipe.

Model

SJ-630 Three Port Ball Valve

The **Shurjoint** Model SJ-630 is a grooved-end three-port ball valve designed to divert media from bottom inlet to either of the two outlets ports. The valve port is a regular port size and the stem features a

blowout proof design to MSS SP-72 and API Standard 608. The valve body and trim materials are in compliance with NACE MR-01-75 requirements.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions						Weight
			L	H	W	d	A	B	
in	in	PSI	in	in	in	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	mm	mm	mm	Kgs
2	2.375	600	6.55	4.32	8.96	1.50	3.25	3.13	7.89
50	60.3	42	167	110	228	38	83	79	3.58

* Working pressure is based on connection with roll- or cut-grooved Sch. 40S stainless steel pipe.

Pressure Performance Data

Stainless Steel Couplings on Stainless Steel Pipe

The following tables show maximum cold working pressures (CWP) of **Shurjoint** stainless steel couplings used on stainless steel pipes. In general it is more difficult to achieve defined groove corners on stainless steel pipe than on carbon steel pipe. Always select the correct roll set for the pipe being grooved and process grooves as defined as possible. Contact your roll-groove tool manufacturer for recommendations.

Model SS-7X Rigid Coupling

Nom. Size	Cut-Grooved	Roll-Grooved		
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
10	600	600	300	200
250	42	42	20	14
12	600	600	300	200
300	42	42	20	14
14	400	400	300	200
350	28	28	20	14
16	400	400	300	200
400	28	28	20	14
18	350	350	300	200
450	24	24	20	14
20	350	350	300	200
500	24	24	20	14
22	300	300	300	200
550	20	20	20	14
24	300	300	300	200
600	20	20	20	14

Model SS-7 Rigid Coupling

Nom. Size	Cut-Grooved	Roll-Grooved		
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
1¼	750	750	500	200
32	52	52	35	14
1½	750	750	500	200
40	52	52	35	14
2	600	600	500	200
50	42	42	35	14
2½	600	600	500	200
65	42	42	35	14
3	600	600	500	200
80	42	42	35	14
4	600	600	400	200
100	42	42	28	14
5	600	600	350	200
125	42	42	24	14
6	600	600	300	200
150	42	42	20	14
8	600	600	300	200
200	42	42	20	14

Model SS-5 Rigid Coupling

Nom. Size	Cut-Grooved	Roll-Grooved		
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
1¼	600	600	300	200
32	42	42	20	14
1½	600	600	300	200
40	42	42	20	14
2	600	600	300	200
50	42	42	20	14
2½	600	600	300	200
65	42	42	20	14
3	600	600	300	200
80	42	42	20	14
4	600	600	300	200
100	42	42	20	14
5	600	600	300	200
125	42	42	20	14
6	600	600	300	200
150	42	42	20	14
8	600	600	300	200
200	42	42	20	14

Model SS-8 Flexible Coupling

Nom. Size	Cut-Grooved	Roll-Grooved		
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
1	500	500	450	225
25	35	35	31	16
1¼	500	500	450	225
32	35	35	31	16
1½	500	500	450	225
40	35	35	31	16
2	500	500	450	225
50	35	35	31	16
2½	500	500	450	225
65	35	35	31	16
3	500	500	450	225
80	35	35	31	16
4	425	425	400	200
100	29	29	28	14
5	425	425	400	125
125	29	29	28	9
6	425	425	350	125
150	29	29	24	9
8	300	300	200	125
200	20	20	14	9

Model SS-1200 High Pressure Flexible Coupling

Nom. Size in / mm	Cut-Grooved	
	Sch. 80S	Sch. 40S
in	psi	psi
mm	Bar	Bar
¾	1200	1200
20	83	83
1	1200	1200
25	83	83
1¼	1200	1200
32	83	83
1½	1200	1200
40	83	83
2	1200	1200
50	83	83
2½	1200	1200
65	83	83
3	1200	1200
80	83	83
4	1200	1200
100	83	83
6	1200	1200
150	83	83
8	1200	1200
200	83	83

Burst pressure: 2 times the listed working pressure.

Model SS-8X Heavy Duty Flexible Coupling

Nom. Size	Cut-Grooved	Roll-Grooved		
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
¾	750	750	500	200
20	52	52	35	14
1	750	750	500	200
25	52	52	35	14
1¼	750	750	500	200
32	52	52	35	14
1½	750	750	500	200
40	52	52	35	14
2	750	750	500	200
50	52	52	35	14
2½	750	750	500	200
65	52	52	35	14
3	750	750	500	200
80	52	52	35	14
4	750	750	400	200
100	52	52	28	14
5	750	750	400	200
125	52	52	28	14
6	500	500	400	200
150	35	35	28	14
8	425	425	300	200
200	29	29	20	14

Model SS-28 Hinged Lever Coupling

Nom. Size	Cut-Grooved	Roll-Grooved		
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
1½	300	300	300	200
40	20	20	20	14
2	300	300	300	200
50	20	20	20	14
2½	300	300	300	200
65	20	20	20	14
3	300	300	300	200
80	20	20	20	14
4	300	300	300	200
100	20	20	20	14
5	200	200	200	125
125	14	14	14	9
6	200	200	200	125
150	14	14	14	9