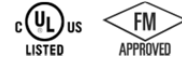


## MODEL SS-8 STAINLESS STEEL FLEXIBLE COUPLING

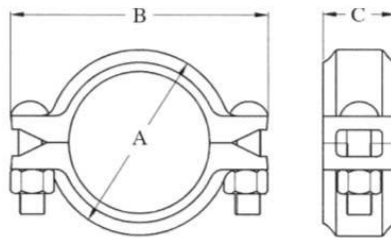
The Model SS-8 is a flexible coupling designed for a variety of general service and specialty applications. The SS-8 is supplied standard in CF8 (304) and CF8M (316) with 304 or 316 bolts and nuts.



SS-8 couplings should always be installed so that the coupling bolt pads make metal to metal contact.



For Fire Protection pressure rating, listing, and approval information, refer to Data Sheet B-42 or visit **SHURJOINT** website, [www.shurjoint.com](http://www.shurjoint.com) for details or contact your **SHURJOINT** Representative.



Full warranty terms can be found on [www.shurjoint.com](http://www.shurjoint.com)

### Model SS-8 Stainless Steel Flexible Coupling

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 1½	1.1
25	33.4	35	3.02	0 - 1.6	55.7	87.5	44.0			0.5
1¼	1.660	500	1082	0 - 0.06	2.54	3.85	1.73	2° - 10'	5/16 x 1½	1.1
32	42.2	35	4.81	0 - 1.6	64.6	97.8	44.0			0.5
1½	1.900	500	1417	0 - 0.06	2.79	4.14	1.73	1° - 54'	5/16 x 1½	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'	¾ x 2½	1.5
50	60.3	35	9.85	0 - 1.6	83.0	124.0	44.0			0.7
2½	2.875	500	3244	0 - 0.06	3.79	5.51	1.73	1° - 15'	¾ x 2½	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'	¾ x 2½	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'	¾ x 2½	2.2
80	88.9	35	21.39	0 - 1.6	111.0	157.0	44.0			1.0
4	4.500	325	5166	0 - 0.13	5.62	7.87	1.97	1° - 36'	½ x 3	3.7
100	114.3	22	22.98	0 - 3.2	143.0	200.0	50.0			1.7
139.7 mm	5.500	200	4749	0 - 0.13	6.73	9.09	1.97	1° - 18'	½ x 3	4.8
	139.7	14	21.13	0 - 3.2	171.0	231.0	50.0			2.2
5	5.563	200	4859	0 - 0.13	6.72	8.90	1.97	1° - 18'	½ x 3	4.8
125	141.3	14	21.61	0 - 3.2	170.8	226.1	50.0			2.2
165.1 mm	6.500	200	6633	0 - 0.13	7.67	9.96	2.09	1° - 07'	½ x 3	5.9
	165.1	14	29.51	0 - 3.2	194.0	253.0	53.0			2.7
6	6.625	200	6891	0 - 0.13	7.80	9.96	2.09	1° - 05'	½ x 3	6.4
150	168.3	14	30.65	0 - 3.2	198.0	253.1	53.0			2.9
8	8.625	200	11386	0 - 0.13	10.04	13.27	2.44	0° - 50'	¾ x 3½	14.1
200	219.1	14	50.65	0 - 3.2	255.0	337.0	62.0			6.4
200 JIS	8.516	200	11679	0 - 0.13	10.00	13.62	2.40	0° - 51'	¾ x 3½	11.3
	216.3	14	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 the below table on page 2.

† 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.

## Performance Data

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.

Unit: psi/bar

Model SS-8 Flexible Coupling				
Nom. Size in / mm	Cut-Grooved	Roll-Grooved		
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
1 25	500 35	500 35	350 24	225 16
1¼ 32	500 35	500 35	350 24	225 16
1½ 40	500 35	500 35	350 24	225 16
2 50	500 35	500 35	350 24	225 16
2½ 65	500 35	500 35	350 24	225 16
3 80	500 35	500 35	350 24	225 16
4 100	325 22	325 22	300 20	200 14
5 125	200 14	200 14	200 14	125 9
6 150	200 14	200 14	200 14	125 9
8 200	200 14	200 14	200 14	125 9

Proof test pressure: 1.5 times the listed working pressure.

Burst pressure: 3 times the listed working pressure.

## MATERIAL SPECIFICATIONS

### • Housing:

Type 304 Stainless steel to ASTM A351 CF8 or A743 Gr. CF8

- Type 316 to ASTM A743 CF8M
- Type 316L to ASTM A743 CF3M
- Type 316Ti to ASTM A240
- Duplex 2205 to ASTM A890 4A
- Super Duplex to ASTM A890 5A
- Duplex 254SMO to ASTM A351 CK3McuN.

### • Rubber Gasket:

**Grade E-pw EPDM** (Color code: Double Green stripe) approved under NSF/ANSI 61 and NSF/ANSI 372 for potable water service to +180°F (+82°C). Also good for services for water with acid, water with chlorine, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals.

**Not recommended for petroleum oils, minerals oils, solvents and aromatic hydrocarbons.**

Maximum Temperature Range: -30°F (-34°C) to +230°F (+110°C)\*.

\*EPDM seat for water services are not recommended for steam services unless valves or components are accessible for frequent replacement.

- (Option) **Grade "E" EPDM** (Color code: Green stripe) Good for cold & hot water up to +230°F (+110°C). Also good for services for water with acid, water with chlorine, deionized water, seawater and waste water,

dilute acids, oil-free air and many chemicals. **Not recommended for petroleum oils, minerals oils, solvents and aromatic hydrocarbons.**

Maximum Temperature Range: -30°F (-34°C) to +230°F (+110°C)\*.

\*EPDM seat for water services are not recommended for steam services unless valves or components are accessible for frequent replacement

- (Option) **Grade "T" Nitrile** (Color code: Orange stripe) Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Also good for water services under +150°F (+66°C). Temperature range: -20°F to +180°F (-29°C to +82°C). **Do not use for HOT WATER above +150°F (+66°C) or HOT DRY AIR above +140°F (+60°C)**
- Other options: Grade "O" Fluoroelastomer.  
Grade "L" Silicone.  
For additional details contact **Shurjoint**.

### Bolts & Nuts:

Type 304 Stainless steel track bolts to A193 B-8 with heavy duty nuts to ASTM A194 B8, Molybdenum disulfide (MoS<sub>2</sub>) coated.

- Type 316 Stainless steel track bolts to A193 B-8M with heavy duty nuts to ASTM B8M, Molybdenum disulfide (MoS<sub>2</sub>) coated.

## General Notes:

- **Maximum Working Pressure (CWP)** listed is the maximum cold water pressure for general piping services tested to ASTM F1476 and or AWWA C606 methods. Figures listed are based on roll- or cut-grooved standard wall stainless steel pipe. For other pipe schedules or pipe materials, contact **Shurjoint** for additional information.
- **Max. End Load** is calculated based on the maximum working pressure (CWP).
- **Listed and or Approved Pressures** are pressure ratings for fire protection systems, tested and approved by various approval bodies. Please always refer to the latest approval data posted on the **Shurjoint** website.
- **Field Joint Test:** For one time only the system may be tested hydrostatically at 1½ times the maximum working pressure listed (AWWA C606 5.2.3).
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- **The 10 Year Limited Warranty** applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- **Shurjoint** reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.

*Shurjoint product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact **Shurjoint Technical Service**. **Shurjoint** reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligations to make such changes and modifications on **Shurjoint** products previously subsequently sold.*