

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 304 or 316 stainless steel track bolts and nuts to ASTM A193 B-8M, Molybdenum disulfide (MoS₂) coated.

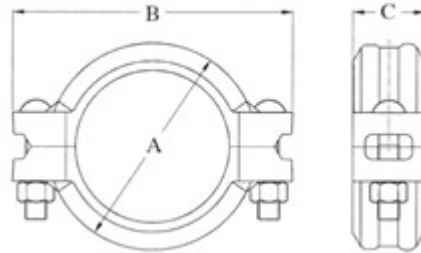


SS-8X couplings should always be installed so that the coupling bolt pads make metal to metal contact.

For pressure rating, listing, and approval information, refer to data sheet or visit SHURJOINT website www.shurjoint.com for details or contact your SHURJOINT representatives.

material specification

- **Housing:**
 - Super duplex 2507 (CE3MN) to ASTM A890 Grade 5A
 - Duplex 2205 (CD3MN) to ASTM Grade 4A
 - Asthenic 254SMO (CK3MCuN) to A743
 - Type 304 Stainless steel to ASTM A351 CF8 or A743 Gr. CF8
 - Type 316 to ASTM A743 CF8M
 - Type 316L to ASTM A743 CF3M
- **Rubber Gasket:**
 - Grade E-pw EPDM (Color code: Double Green stripe) certified 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 or chloramines, 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.
 - Other options: Grade "E" - EPDM
Grade "T" - Nitrile
Grade "O" - Fluoroelastomer.
Grade "L" - Silicone.
- For additional details contact Shurjoint.
- **Bolts & Nuts:**
 - Type 304 or 316 stainless steel to ASTM A193 B-8M, Molybdenum disulfide (MoS₂) coated.



Model SS-8X Stainless Steel Heavy Duty Flexible Coupling

Normal 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	lbf	in	in	in	in	(°)		in	lbs
mm	mm	bar	kN	mm	mm	mm	mm				kg
¾	1.050	750	1212	0 - 0.06	2.20	3.75	1.81	3° - 23'	2	¾ x 2 1/8	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 2 1/8	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 2 1/8	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 2 1/8	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 2 1/8	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	4.06	6.02	1.85	1° - 15'	2	¾ x 2 1/8	2.9
65	73.0	52	40.41	0 - 1.6	103.0	153.0	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	5/8 x 3 1/2	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	5/8 x 3 1/2	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 4 ¾	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 4 ¾	14.3
	216.3	29	253.25	0 - 3.2	264.0	338.0	62.0				6.5

* The working pressure shown is based on cut-grooved Sch. 40S or 80S pipe. Pressure ratings for use on cut grooved stainless steel pipe and on thin wall stainless steel pipe can be found on Shurjoint publication [B-37](#).

† 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.

** Deflection or angular movement given is the maximum value that a coupling allows. When using the given maximum angles for a curved layout, proper bracing should be used to counter pressure thrust that will occur when the system is pressurized. Flexible couplings can be used for angular movement and or thermal expansion, though please note individual coupling(s) cannot be used to their maximums for both types of movement within a system at the same time.

General note

- 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 carbon 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.

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