

## SS-8X

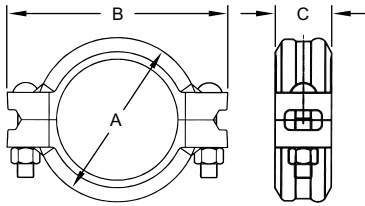
stainless steel heavy duty flexible coupling



ensure coupling bolt pads make metal-to-metal contact.



job name:	
job location:	
engineer:	
contractor:	
tag:	
po#:	
rep:	
wholesale dist.:	



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 bolts, washers and silicon bronze nuts to help prevent galling during repetitive use.

### dimensions

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 mm	in mm	PSI Bar	lb kN	in mm	in mm	in mm	in mm	( ° )	No	in	lb kg
3/4 20	1.050 26.7	750 52	649 2.89	0 - 0.06 0 - 1.6	2.20 56.0	3.75 95.0	1.81 46.0	3° - 23'	2	3/8 x 2-1/8	1.5 0.7
1 25	1.315 33.4	750 52	1019 4.53	0 - 0.06 0 - 1.6	2.45 63.0	3.91 99.0	1.81 46.0	2° - 45'	2	3/8 x 2-1/8	1.8 0.8
1-1/4 32	1.660 42.2	750 52	1623 7.22	0 - 0.06 0 - 1.6	2.82 72.0	4.37 111.0	1.81 46.0	2° - 10'	2	3/8 x 2-1/8	2.0 0.9
1-1/2 40	1.900 48.3	750 52	2126 9.46	0 - 0.06 0 - 1.6	3.06 78.0	4.82 123.0	1.81 46.0	1° - 54'	2	3/8 x 2-1/8	2.2 1.0
2 50	2.375 60.3	750 52	3323 14.78	0 - 0.06 0 - 1.6	3.46 88.0	5.28 134.0	1.85 47.0	1° - 31'	2	3/8 x 2-1/8	2.6 1.2
2-1/2 65	2.875 73.0	750 52	4869 21.66	0 - 0.06 0 - 1.6	6.02 153.0	4.06 103.0	1.85 47.0	1° - 15'	2	3/8 x 2-1/8	2.9 1.3
3 80	3.500 88.9	750 52	7216 32.10	0 - 0.06 0 - 1.6	4.71 120.0	6.74 171.0	1.85 47.0	1° - 02'	2	1/2 x 3	4.0 1.8
4 100	4.500 114.3	750 52	11928 53.06	0 - 0.13 0 - 3.2	5.98 152.0	7.90 201.0	2.03 52.0	1° - 36'	2	1/2 x 3	5.3 2.4
5 125	5.563 141.3	450 31	10938 48.65	0 - 0.13 0 - 3.2	7.13 181.0	9.80 249.0	2.09 53.0	1° - 18'	2	5/8 x 3-1/2	7.7 3.5
6 150	6.625 168.3	450 31	15512 69.00	0 - 0.13 0 - 3.2	8.19 208.0	10.85 276.0	2.09 53.0	1° - 05'	2	5/8 x 3-1/2	8.8 4.0
8 200	8.625 219.1	300 20	17528 77.97	0 - 0.13 0 - 3.2	10.53 267.0	13.43 341.0	2.44 62.0	0° - 50'	2	3/4 x 4-3/4	15.0 6.8

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

† 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.



## material specifications

### housing:

- super duplex 2507 (CE3MN) to ASTM A890 Grade 5A
- duplex 2205 (CD3MN) to ASTM Grade 4A
- austenitic 254SMO (CK3MCuN) to A743
- type 304 Stainless steel to ASTM A351 CF8 or A743 Gr. CF8
- type 316 to ASTM A743 CF8M

### rubber gasket:

#### grade “E-pw” EPDM (color code: double green stripes)

- good for cold & hot water up to +230°F (+110°C). also good for services for water with acid, water with chlorine, chloramine, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals.
  - good for cold +86°F (+30°C) and hot +180°F (+82°C) potable water services. EPDM is UL classified per NSF/ANSI 61 & NSF/ANSI 372.
  - **not recommended for petroleum oils, minerals oils, solvents and aromatic hydrocarbons.**
  - maximum temperature range: -30°F (-34°C) to +230°F (+110°C).
- \*EPDM gaskets for water services are not recommended for steam services.

#### (option) grade “T” nitrile (color code: orange stripe)

- recommended for petroleum products, air with oil vapors, vegetable and mineral oils.
- hot dip zinc galvanized (optional). 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:

- type 304 or 316 stainless steel track bolts to ASTM A193 B-8M, molybdenum disulfide (MoS<sub>2</sub>) coated.

### nuts:

- silicon bronze heavy duty nuts to ASTM B98 C65100

## 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.

NOM. SIZE	CUT-GROOVED		ROLL-GROOVED	
	SCH. 40S	SCH. 40S	SCH. 10S	SCH. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
3/4	750	750	500	200
20	52	52	35	14
1	750	750	500	200
25	52	52	35	14
1-1/4	750	750	500	200
32	52	52	35	14
1-1/2	750	750	500	200
40	52	52	35	14
2	750	750	500	200
50	52	52	35	14
2-1/2	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	300	400	200
125	52	20	28	14
6	300	300	300	200
150	20	20	20	14
8	300	300	300	200
200	20	20	20	14

proof test pressure: 1.5 times the listed working pressure.  
burst pressure: 3 times the listed working pressure.

## 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 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).
- field joint test: for one time only the system may be tested hydrostatically at 1.5 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.