

## MODEL SS-1200 STAINLESS STEEL HIGH PRESSURE FLEXIBLE COUPLING

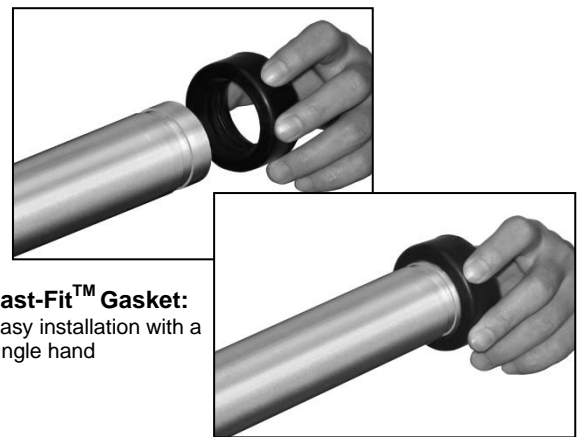
The Model SS-1200 is designed for high pressure applications including reverse osmosis, desalination and other specialty systems. The SS-1200 is available in strong and anti-corrosive alloys of Duplex CD3MN (2205), Super Duplex CE8MN, CE3MN (2507) and 6-Moly stainless steel CK3MCuN (254SMO)\*. The SS-1200 features 316 bolts, washers and silicon bronze nuts to help prevent galling during repetitive use.

\* 254SMO is a registered trademark of Avesta Polaris AB.



SS-1200 couplings should always be installed so that the coupling bolt pads make metal to metal contact.

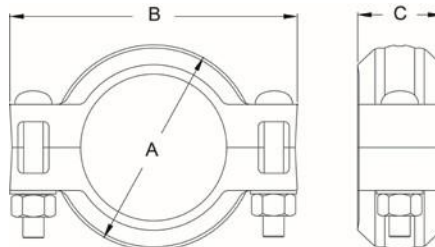
The **Shurjoint** Fast-Fit™ gasket has been designed and engineered for easier and faster installations. The pipe-end friendly design eliminates struggling to stretch the gasket over the pipe ends and the Fast-Fit™ gasket also features **Shurjoint's** GapSeal technology, which seals the gap between the 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).



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



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.



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

### Model SS-1200 Stainless Steel High Pressure Flexible Coupling

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load	Axial Displacement †	Dimension			Deflection Degree†	Bolt No.	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	1200	1630	0 - 0.06	2.36	3.90	1.81	2° - 45'	2	3/8 x 2 1/8	1.21
	33.4	83	7.25	0 - 1.6	60	99	46				0.55
1 1/4	1.660	1200	2595	0 - 0.06	2.76	4.17	1.81	2° - 10'	2	3/8 x 2 1/8	1.39
	42.2	83	11.55	0 - 1.6	70	106	46				0.63
1 1/2	1.900	1200	3400	0 - 0.06	2.99	4.45	1.81	1° - 54'	2	3/8 x 2 1/8	1.54
	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	1/2 x 3	2.29
	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	1/2 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	1/2 x 3	3.41
	88.9	83	51.33	0 - 1.6	119	168	49				1.55

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Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load	Axial Displacement †	Dimension			Deflection Degree†	Bolt No.	Size	Weight
					A	B	C				
in mm	in mm	PSI Bar	Lbs kN	in mm	in mm	in mm	in mm	(°)		in	Lbs Kgs
4 100	4.500 114.3	1200 83	19075 84.86	0 - 0.13 0 - 3.2	5.79 147	7.80 198	2.03 52	1° - 36'	2	5/8 x 3 1/2	4.69 2.13
6 150	6.625 168.3	1200 83	41346 183.92	0 - 0.13 0 - 3.2	7.95 202	10.71 272	2.05 52	1° - 05'	2	5/8 x 3 1/2	7.82 3.55
8 200	8.625 219.1	1200 83	68316 303.88	0 - 0.13 0 - 3.2	10.23 260	14.13 359	2.44 62	0° - 50'	2	7/8 x 5 1/2	15.55 7.06

\* The working pressure shown is based on cut-grooved Sch. 40S or 80S pipe only.

† 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.

## 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-1200 High Pressure Flexible Coupling		
Nom. Size	Cut-Grooved	
	Sch. 80S	Sch. 40S
3/4 20	1200 83	1200 83
1 25	1200 83	1200 83
1 1/4 32	1200 83	1200 83
1 1/2 40	1200 83	1200 83
2 50	1200 83	1200 83
2 1/2 65	1200 83	1200 83
3 80	1200 83	1200 83
4 100	1200 83	1200 83
6 150	1200 83	1200 83
8 200	1200 83	1200 83

Proof test pressure: 1.5 times the listed working pressure.

Burst pressure: 2 times the listed working pressure.

## MATERIAL SPECIFICATIONS

### • Housings:

Super duplex 2507 (CE3MN) to ASTM A890 Grade 5A  
Duplex 2205 (CD3MN) to ASTM Grade 4A  
Austenitic 254SMO (CK3MCuN) to A743

### • 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, 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.**

□ **Grade "E" EPDM** (Color code: Green stripe) Good for cold & hot water up to +200°F (+93°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.**  
Maximum Temperature Range: -30°F (-34°C) to +200°F (+93°C)\*.

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

### • Bolts:

Type 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

### • Washers:

Type 316 stainless steel

#### 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 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.