

MODEL SS-5 RIGID COUPLING

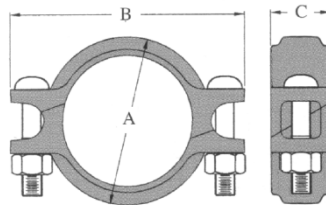
- Angle-Pad Design -

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 "swingover" 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.



SS-5 couplings should always be installed so that the coupling bolt pads make metal to metal contact.

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.



Full warranty terms can be found on www.shurjoint.com

Model SS-5 Stainless Steel Rigid Coupling												
Nominal Size	Pipe OD	Max. Working Pressure (CWP)*	ASME/ANSI Pressure Class Rating* @100°F/@38°C	Max End Load (CWP)	Axial displacement †	Dimension			Bolt Size	Weight		
						A	B	C				
in mm	in mm	PSI Bar	PSI Nom. Class	Lbs kN	in mm	in mm	in mm	in mm	No.	in	Lbs Kgs	
1¼ 32	1.660 42.2	600 40	300 20	1298 5.77	0 ~ 0.05 0 ~ 1.2	2.60 66	4.00 102	1.81 46	2	¾ x 2½	1.4 0.6	
1½ 40	1.900 48.3	600 40	300 20	1700 7.56	0 ~ 0.05 0 ~ 1.2	2.83 72	4.29 109	1.81 46	2	¾ x 2½	1.5 0.7	
2 50	2.375 60.3	600 40	300 20	2657 11.82	0 ~ 0.07 0 ~ 1.7	3.35 85	4.61 117	1.85 47	2	¾ x 2¾	1.7 0.8	
2½ 65	2.875 73.0	600 40	300 20	3893 17.32	0 ~ 0.07 0 ~ 1.7	3.86 98	5.20 132	1.85 47	2	¾ x 2¾	2.1 0.9	
76.1 mm	3.000 76.1	600 40	300 20	4239 18.86	0 ~ 0.07 0 ~ 1.7	3.94 100	5.35 136	1.85 47	2	¾ x 2¾	2.2 1.0	
3 80	3.500 88.9	600 40	300 20	5770 25.67	0 ~ 0.07 0 ~ 1.7	4.45 113	5.83 148	1.88 48	2	¾ x 2¾	2.6 1.2	
4 100	4.500 114.3	600 40	300 20	9538 42.43	0 ~ 0.16 0 ~ 4.1	5.75 146	7.17 182	2.09 53	2	¾ x 2¾	4.1 1.9	
139.7 mm	5.500 139.7	600 40	300 20	14248 63.38	0 ~ 0.16 0 ~ 4.1	6.81 173	8.94 227	2.09 53	2	½ x 3	5.7 2.6	
5 125	5.563 141.3	600 40	300 20	14576 64.84	0 ~ 0.16 0 ~ 4.1	6.89 175	9.02 229	2.09 53	2	½ x 3	5.7 2.6	
165.1 mm	6.500 165.1	600 40	300 20	19900 88.52	0 ~ 0.16 0 ~ 4.1	7.87 200	9.69 246	2.13 54	2	½ x 3	6.8 3.1	
6 150	6.625 168.3	600 40	300 20	20672 91.96	0 ~ 0.16 0 ~ 4.1	8.00 203	9.80 249	2.13 54	2	½ x 3	6.8 3.1	
8 200	8.625 219.1	600 40	300 20	35038 155.86	0 ~ 0.19 0 ~ 4.8	10.40 264	12.99 330	2.52 64	2	¾ x 5 5/16	13.4 6.1	
200 JIS	8.516 216.3	600 40	300 20	34158 151.95	0 ~ 0.19 0 ~ 4.8	10.24 260	13.39 340	2.50 64	2	¾ x 4¾	16.2 7.4	

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

† The ASME/ANSI pressure class rating is not the design or maximum pressure rating, rather is provided for those that are accustomed to specifying or using ASME/ANSI pressure class rated components such as flange, valves, etc.

‡ 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.

Model SS-5 Rigid Coupling			
Nom. Size in / mm	Roll-Grooved		
	Sch. 40S PSI / Bar	Sch. 10S PSI / Bar	Sch. 5S PSI / Bar
1¼ 32	600 40	300 20	200 14
1½ 40	600 40	300 20	200 14
2 50	600 40	300 20	200 14
2½ 65	600 40	300 20	200 14
3 80	600 40	300 20	200 14
4 100	600 40	300 20	200 14
5 125	600 40	300 20	200 14
6 150	600 40	300 20	200 14
8 200	600 40	300 20	200 14

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 2507 to ASTM A890 5A.
- Duplex 254SMO to ASTM A351 CK3McuN.

• Rubber Gaskets:

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 gaskets for water services are not recommended for steam services unless couplings or components are accessible for frequent gasket 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 (MoS₂) coated.

- Type 316 Stainless steel track bolts to A193 B-8M with heavy duty nuts to ASTM B8M, Molybdenum disulfide (MoS₂) coated.

General Notes:

- **ASME/ANSI Pressure-Temperature Rating** is provided as an aid in selecting a proper coupling to incorporate with other piping components (valves, flanges, and etc.) that are used in the same system and carry the ASME/ANSI rating. Select a Class 150 coupling to incorporate with Class 150 valves and flanges.
- **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.

Job Name:	System No.	Location:	
Contractor:	Approved:	Date:	
Engineer:	Approved:	Date:	

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.