

## MODEL SS-7 STAINLESS STEEL RIGID COUPLING

The Model SS-7 Stainless Steel Rigid Coupling is the ideal coupling for use with Sch. 5S, Sch. 10S or Sch. 40S stainless steel pipe where a rigid connection is desired. The Model SS-7 features a tongue and groove mechanism and a heavy duty bolt pad design resulting in a positive rigid connection. The SS-7 has no built-in teeth that could harm light wall pipe or fittings. The SS-7 couplings are comprised of two identical CF8 (304) or CF8M (316) housing segments, EPDM gasket and stainless steel track bolts and heavy duty nuts.



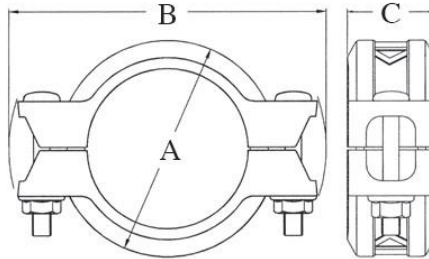
SS-7 couplings should always be installed so that the coupling bolt pads make metal to metal contact.



The tongue and groove style rigid coupling may allow for rotation of pipe when installed on deeper than specified grooves.



For Fire Protection pressure rating, listing, and approval information, refer to Data Sheet B-42 or 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-7 Stainless Steel Rigid Coupling**

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max End Load (CWP)	Axial Displacement †	Dimensions			Bolt Size	Weight
in	in	PSI	Lbs	in	A	B	C	in	Lbs
mm	mm	Bar	kN	mm	mm	mm	mm		Kgs
1¼	1.660	600	1298	0-0.06	2.68	4.13	1.75	¾ x 2½	1.5
32	42.2	42	5.77	0-1.6	68	105	45		0.7
1½	1.900	600	1700	0-0.06	2.91	4.25	1.81	¾ x 2½	1.8
40	48.3	42	7.56	0-1.6	74	108	46		0.8
2	2.375	600	2657	0-0.06	3.39	4.92	1.81	¾ x 2½	2.0
50	60.3	42	11.82	0-1.6	86	125	46		0.9
2½	2.875	600	3893	0-0.06	3.94	5.43	1.81	¾ x 2½	1.8
65	73.0	42	17.32	0-1.6	100	138	46		0.8
76.1 mm	3.000	600	4239	0-0.06	3.94	5.63	1.81	¾ x 2½	2.2
	76.1	42	18.86	0-1.6	100	143	46		1.0
3	3.500	600	5770	0-0.06	4.41	6.30	1.81	¾ x 2½	2.6
80	88.9	42	25.67	0-1.6	112	160	46		1.2
4	4.500	600	9538	0-0.13	5.63	8.15	2.00	½ x 3	4.6
100	114.3	42	42.43	0-3.2	143	207	51		2.1
139.7 mm	5.500	600	14248	0-0.13	6.77	9.09	2.00	½ x 3	6.2
	139.7	42	63.38	0-3.2	172	231	51		2.8
5	5.563	600	14576	0-0.13	6.73	9.29	2.00	½ x 3	5.9
125	141.3	42	64.84	0-3.2	171	236	51		2.7
165.1 mm	6.500	600	19900	0-0.13	7.68	10.04	2.09	½ x 3	6.8
	165.1	42	88.52	0-3.2	195	255	53		3.1
6	6.625	600	20672	0-0.13	7.91	10.08	2.00	½ x 3	6.8
150	168.3	42	91.96	0-3.2	201	256	51		3.1
8	8.625	600	35038	0-0.13	10.39	13.11	2.44	¾ x 3½	14.1
200	219.1	42	155.86	0-3.2	264	333	62		6.4
200 JIS	8.516	600	34158	0-0.13	10.12	13.62	2.44	¾ x 4¾	13.2
	216.3	42	151.95	0-3.2	257	346	62		6.0

\* The working pressure shown is based on roll-grooved Sch. 40S pipe. For other pipe schedules, 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-7 Rigid Coupling				
Nom. Size	Cut-Grooved	Roll-Grooved		
in / mm	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
1¼	600	750	500	200
32	42	52	35	14
1½	600	750	500	200
40	42	52	35	14
2	600	600	500	200
50	42	42	35	14
2½	600	600	500	200
65	42	42	35	14
3	600	600	500	200
80	42	42	35	14
4	600	600	300	200
100	42	42	20	14
5	600	600	300	200
125	42	42	20	14
6	600	600	300	200
150	42	42	20	14
8	600	600	300	200
200	42	42	20	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 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.**

- ☐ **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.

- ☐ (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.