

MODEL RX-3000 3000 PSI RING JOINT COUPLING

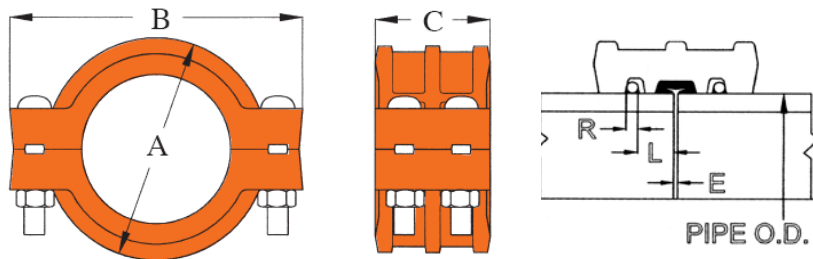
The Shurjoint Model RX-3000 coupling is a high pressure ring joint coupling for use with Sch. 80, 120 or heavier wall carbon steel pipelines.

The coupling is comprised of two ductile iron heavy-wall housings, rubber gasket (EPDM or Nitrile) and two or four heat-treated track bolts and nuts which provide a fully restrained joint with maximum working pressure up to 3,000 psi (210 Bar) depending on the pipe used.



RX-3000 couplings should always be installed so that the coupling bolt pads make metal to metal contact.

Two steel weld rings will be factory supplied with the coupling. Steel rings shall always be always fully welded on both sides.



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

Model RX-3000 3000 PSI Ring Joint Coupling

Nominal Size	Pipe OD	Max. Working Pressure (CWP)*	ASME/ANSI Pressure Class Rating [^] @100°F/@38°C	Max. End Load (CWP)	Dimensions			Bolt / Nut#	Pipe-end Preparation	Weight			
					A	B	C						
in	in	PSI	PSI	Lbs	in	in	in	No.	Size	R	L	E	Lbs
mm	mm	Bar	Nom. Class	kN	mm	mm	mm		in	mm	mm	mm	Kgs
8	8.625	3000	3000	175180	11.81	15.51	5.83	2	1 1/8" x 5 1/8"	0.472 - 0.500	1.22	1/8"	78.92
200	219.1	210	1500	791.36	300	394	148			12.0 - 12.7	31	3	35.87
10	10.748	3000	3000	272040	14.96	18.93	5.98	4	1 1/4" x 6 1/2"	0.625 - 0.629	1.22	1/8"	116.36
250	273.0	210	1500	1228.61	380	481	152			15.9 - 16.0	31	3	52.78
12	12.752	3000	3000	382950	18.50	22.48	6.81	4	1 1/2" x 6 1/4"	0.625 - 0.629	1.22	1/8"	212.27
300	323.9	210	1500	1729.46	470	572	173			15.9 - 16.0	31	3	96.24

*Working pressure is based on API 5L X65 line pipe.

[^]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.

#Bolts & nuts are UNC threaded.

MATERIAL SPECIFICATIONS

- **Housing:**

Ductile Iron to ASTM A536 Gr. 65-45-12 and or to ASTM A395, Gr. 65-45-15, min. tensile strength 65,000 psi (448 Mpa).

- **Surface Finish:**

Standard painted finishes in orange or RAL3000 red.
 Epoxy Coating. (Option)

- **Rubber Gasket:**

Grade "E" EPDM EP (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.



Grade "T" Nitrile gasket (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).

For additional details contact *Shurjoint*.

- **Bolts & Nuts:**

Heat treated carbon manganese steel track bolts to ASTM A449-83a (or A183 Gr. 2), minimum tensile strength 110,000 psi (758 MPa), Zinc electroplated, with heavy-duty hexagonal nuts to ASTM A563.

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 standard wall carbon steel pipe. For other pipe schedules or pipe materials, contact *Shurjoint* for additional information.
- **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.