

RH-1000 1000 PSI RING JOINT COUPLING



For pressure rating, listing, and approval information, refer to data sheet or visit SHURJOINT website www.shurjoint.com for details or contact your SHURJOINT representatives.

The Shurjoint Model RH-1000 coupling is a high-pressure ring joint coupling for use with Sch. 40, Sch. 80 and heavier wall carbon steel pipelines.

The coupling is comprised of two ductile iron heavy-wall housings, rubber gasket (EPDM or Nitrile) and two heat-treated track bolts and nuts and provides a fully restrained joint with maximum working pressure up to 1,000 psi (70 Bar) depending on the pipe used.



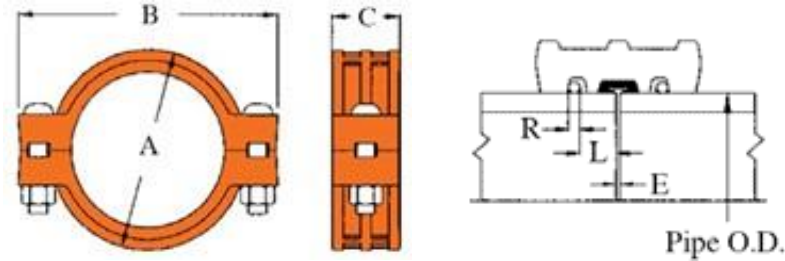
RH-1000 couplings should always be installed so that the coupling bolt pads make metal to metal contact.

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

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material specification

- **Housing:**
Ductile Iron to ASTM A536 Gr. 65-45-12, 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 (Color code: Green stripe) Good for cold & hot water up to +230oF (+110oC). 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 +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.
Other options: Grade "T" - Nitrile "EP" gasket
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.



Model RH-1000 1000 PSI Ring Joint Coupling

Normal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Dimensions			Bolts / Nuts†	Deflection	Pipe-end Preparation			Weight	
				A	B	C			No.	Size	Deg.		R
in	in	psi	lbf	in	in	in			in	in	in	lbs	
mm	mm	bar	kN	mm	mm	mm		in	mm	mm	mm	kgs	
8	8.625	1000	58390	11.10	14.65	3.86	2	1" x 5½	0° - 18'	0.472-0.500	1	0.13	39.8
200	219.1	69	263.79	282	372	98				12.0-12.7	25	3.2	18.1
10	10.750	1000	90710	13.32	16.93	4.25	2	1" x 6½	0° - 38'	0.472-0.500	1	0.13	57.2
250	273.0	69	409.54	340	430	108				12.0-12.7	25	3.2	26.0
12	12.750	1000	127610	16.33	20.07	4.17	2	1" x 6½	0° - 32'	0.472-0.500	1	0.13	72.6
300	323.9	69	576.49	415	510	106				12.0-12.7	25	3.2	33.0

*Working pressure is based on standard wall carbon steel pipe.

†Bolts & nuts are UNC threaded.

General note

- 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).
- 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.