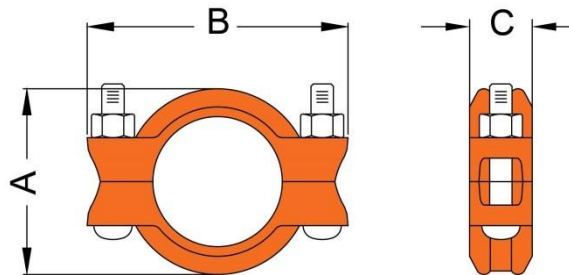


## MODEL XH-1000 EXTRA HEAVY RIGID COUPLING

The **Shurjoint** Model XH-1000 is an extra heavy rigid coupling designed for high pressure services up to 1000 psi (70 Bar), supplied with a standard C-shaped gasket and heavy duty bolts and nuts. The coupling is painted in orange color. The Model XH-1000 can be installed on standard roll-grooved or standard cut-grooved pipes. The bolt pads are allowed up to 2mm gap when properly installed. The Model XH-1000 can be also used with stainless steel pipe. Please refer to below table for recommended bolt torque.



Bolt Size		Proper Torque Range	
(mm)	(in)	(Nm)	(Lbs-ft)
M10	3/8"	40-50	30-40
M12	1/2"	120-150	90-110
M16	5/8"	140-180	100-130
M20	3/4"	200-270	150-200
M22	7/8"	240-300	180-220
M24	1"	270-340	200-250



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

### Model XH-1000 Extra Heavy Rigid Coupling

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Axial Displacement †	Dimensions			Bolt No.	Bolt Size	Weight
					A	B	C			
in	in	PSI	Lbs	in	in	in	in	No.	in	Lbs
mm	mm	Bar	kN	mm	mm	mm	mm			Kgs
2	2.375	1000	4420	0 ~ 0.14	3.50	5.71	1.92	2	5/8 x 2 3/4	3.4
50	60.3	69	19.98	0 ~ 3.6	90	145	49			1.6
2 1/2	2.875	1000	6480	0 ~ 0.14	4.02	6.61	1.92	2	5/8 x 2 3/4	3.8
65	73.0	69	29.28	0 ~ 3.6	102	168	49			1.7
3	3.500	1000	9610	0 ~ 0.14	4.86	7.40	1.92	2	5/8 x 2 3/4	4.8
80	88.9	69	43.43	0 ~ 3.6	123	188	49			2.2
4	4.500	1000	15890	0 ~ 0.25	6.09	8.74	2.10	2	3/4 x 4 3/4	8.4
100	114.3	69	71.79	0 ~ 6.4	155	222	53			3.8
6	6.625	1000	34450	0 ~ 0.25	8.58	11.61	2.25	2	7/8 x 5 1/2	17.6
150	168.3	69	155.65	0 ~ 6.4	218	295	57			8.0
8	8.625	800	46710	0 ~ 0.25	10.83	14.33	2.75	2	1 x 5 1/2	24.0
200	219.1	55	207.26	0 ~ 6.4	275	364	70			10.9
10	10.750	800	72570	0 ~ 0.25	13.15	16.70	2.95	2	1 x 5 1/2	31.2
250	273.0	55	321.78	0 ~ 6.4	334	424	75			14.2
12	12.750	800	102080	0 ~ 0.25	15.35	18.90	2.95	2	1 x 5 1/2	36.7
300	323.9	55	452.95	0 ~ 6.4	390	480	75			16.7

\* Working Pressure is based on roll grooved standard wall carbon steel pipe. Stated pressure ratings have been developed with a safety factor. Please see Shurjoint's 2017 online installation instructions for most recently updated instructions. Proper installation is important to proper performance.

† 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" – 3 1/2"; 25% for 4" and larger to compensate for jobsite conditions.



CAUTION



Sizes 2" through 4" require a bolt torque of 60 – 70 Lbs-Ft (80 – 95 Nm). Normally you can see some gaps between the bolt pads. Bolt pad gaps should be equal on both sides of the coupling.



Sizes 6" through 12" are designed to make a metal-to-metal contact when properly installed.

## Performance Data

The following tables show the maximum working pressures (CWP) of **Shurjoint** Model XH-1000 Extra Heavy Rigid Coupling used on both carbon steel and stainless steel pipes. **Shurjoint** ductile iron couplings can be used in conjunction with stainless steel pipe in non-corrosive environment as the flow media does not come in direct contact with the coupling housings but rather only the gasket.

Model XH-1000 on Carbon Steel Pipe					
Nom. Size in / mm	Cut-Grooved		Roll-Grooved		
	XS PSI / Bar	STD PSI / Bar	STD PSI / Bar	Sch. 10 PSI / Bar	Sch. 7 PSI / Bar
2 50	1000 69	1000 69	1000 69	750 52	NR
2½ 65	1000 69	1000 69	1000 69	600 42	NR
3 80	1000 69	1000 69	1000 69	600 42	NR
4 100	1000 69	1000 69	1000 69	600 42	NR
6 150	1000 69	1000 69	1000 69	450 31	NR
8 200	800 55	800 55	800 55	300 20	NR
10 250	800 55	800 55	800 55	300 20	NR
12 300	800 55	800 55	800 55	300 20	NR

Model XH-1000 on Stainless Steel Pipe					
Nom. Size in / mm	Cut-Grooved		Roll-Grooved		
	Sch. 80S PSI / Bar	Sch. 40S PSI / Bar	Sch. 40S PSI / Bar	Sch. 10S PSI / Bar	Sch. 5S PSI / Bar
2 50	1000 69	1000 69	750 52	700 48	NR
2½ 65	1000 69	1000 69	750 52	700 48	NR
3 80	1000 69	1000 69	750 52	500 35	NR
4 100	1000 69	1000 69	750 52	500 35	NR
6 150	1000 69	1000 69	750 52	350 24	NR
8 200	800 55	800 55	650 45	350 24	NR
10 250	800 55	800 55	600 42	300 20	NR
12 300	800 55	800 55	600 42	300 20	NR

## MATERIAL SPECIFICATIONS

### • Housing:

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

### • Surface Finish:

Orange paint

- Options: Green paint
- Hot dip galvanized

### • Rubber Gasket:

**Grade "T" Nitrile** C-shaped standard 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)**

- Option: Gr. "E-pw" EPDM (Color code: Double Green Stripes), Good for cold +86°F (+30°C) and hot +180°F (+82°C) potable water services. EPDM is UL classified per NSF/ANSI 61 & NSF/ANSI 372.

- Other options: Grade "E" - EPDM.  
Grade "O" - Fluoroelastomer.  
Grade "L" - Silicone.

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:

- **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.