


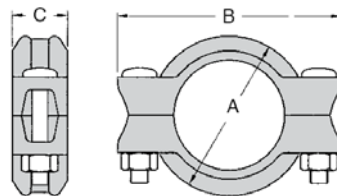
## MODEL XH-70EP EXTRA HEAVY RIGID COUPLING With End Protection (EP) Gasket

The **Shurjoint** Model XH-70EP coupling is an extra heavy rigid coupling for use with plastic coated pipe, cement-lined pipe or Sch. 40S or 80S stainless steel pipe. The coupling is capable of holding high pressure up to 2,500 psi (175 Bar) depending on pipe size when used in conjunction with machined EP cut-grooves and the applicable pipe. The coupling housings are painted black and supplied with an EP (End-Protection) gasket, which will permit a continuous connection of lined-surface of the pipe and also protect the pipe ends from corrosion. The standard EP gaskets are made of oil-resistant Nitrile compound.



- XH-70EP couplings are not allowed to install on standard or commercial roll- or cut- grooved pipes. Pipe ends shall always be prepared with the **EP Cut-Grooves** which is shown in page 2.
- Always use the XH-70EP coupling with an **EP (End-Protection) gasket**. Do not use a C-shaped standard gasket with a XH-70EP coupling.

 Always fasten the bolts to the required torque.



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

### Model XH-70EP Extra Heavy Rigid Coupling with EP Gasket

Nominal Size	Pipe OD	Max. Working Pressure (CWP)*	ASME/ANSI Pressure Class Rating <sup>^</sup> @100°F/38°C	Max. End Load (CWP)	Dimensions			Bolt		Bolt Torque	Weight
					A	B	C	No.	Size		
in	in	PSI	PSI	Lbs	in	in	in		in	Lbs - Ft	Lbs
mm	mm	Bar	Nom. Class	kN	mm	mm	mm			N-m	Kgs
2	2.375	2500	2500	11070	3.54	5.90	1.92	2	5/8 x 2 3/4	60 - 90	3.3
50	60.3	175	CWP	50.0	90	150	49			80 - 120	1.5
2 1/2	2.875	2500	2500	16220	4.06	6.61	1.92	2	5/8 x 2 3/4	60 - 90	4.0
65	73.0	175	CWP	73.2	103	168	49			80 - 120	1.8
3	3.500	2500	2500	24040	4.80	7.40	2.00	2	5/8 x 2 3/4	60 - 90	4.8
80	88.9	175	CWP	108.6	122	188	51			80 - 120	2.2
4	4.500	2500	2500	39740	6.18	8.74	2.17	2	3/4 x 4 3/4	74 - 170	8.8
100	114.3	175	CWP	179.5	157	222	55			100 - 235	4.0
6	6.625	2000	2000	68910	8.58	11.61	2.25	2	7/8 x 5 1/2	125 - 200	17.6
150	168.3	140	CWP	311.3	218	295	57			170 - 275	8.0
8	8.625	2000	2000	116790	10.83	14.33	2.75	2	1 x 5 1/2	200 - 300	24.0
200	219.1	140	CWP	527.6	275	364	70			275 - 400	10.9
10	10.750	1250	1250	113400	13.15	16.70	2.95	2	1 x 5 1/2	200 - 300	31.2
250	273.0	88	CWP	514.8	334	424	75			275 - 400	14.2
12	12.750	1250	1250	159510	15.35	18.90	2.95	2	1 x 5 1/2	200 - 300	36.7
300	323.9	88	CWP	724.7	390	480	75			275 - 400	16.7

\* Working pressure is based on EP cut grooved XS, Sch. 80 pipe.

<sup>^</sup> 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.

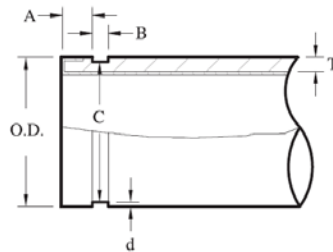
### MATERIAL SPECIFICATIONS

- **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:**  
Black enamel.
- **Rubber Gasket:**  
Grade "T" Nitrile "EP" 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)**

- **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

### "EP" End Protection Cut Grooving Dimensions for XH-70EP Couplings



Nom. Size	Pipe O. D.			Gasket Seat A Cut Groove		Gasket Width B Cut Groove		Groove dia. C.		Grv. Depth d
	Basic	Tolerance		Basic	Tol. ±	Basic	Tol. +0.25/+0.010	Basic	Tol. +0 / +0.	(ref.)
in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
2 50	2.375 60.3	+0.024 +0.61	-0.024 -0.61	0.562 14.27	±0.010 ±0.25	0.255 6.48	-0.005 -0.13	2.250 57.15	-0.015 -0.38	0.063 1.60
2½ 65	2.875 73.0	+0.029 +0.74	-0.029 -0.74	0.562 14.27	±0.010 ±0.25	0.255 6.48	-0.005 -0.13	2.720 69.09	-0.018 -0.46	0.078 1.98
3 80	3.500 88.9	+0.035 +0.89	-0.031 -0.79	0.562 14.27	±0.010 ±0.25	0.255 6.48	-0.005 -0.13	3.344 84.94	-0.018 -0.46	0.078 1.98
4 100	4.500 114.3	+0.045 +1.14	-0.031 -0.79	0.605 15.37	±0.015 ±0.38	0.305 7.75	-0.005 -0.13	4.334 110.08	-0.020 -0.51	0.083 2.11
6 150	6.625 168.3	+0.063 +1.60	-0.031 -0.79	0.605 15.37	±0.015 ±0.38	0.305 7.75	-0.005 -0.13	6.455 163.96	-0.022 -0.56	0.085 2.16
8 200	8.625 219.1	+0.063 +1.60	-0.031 -0.79	0.714 18.14	±0.015 ±0.38	0.400 10.16	-0.010 -0.25	8.441 214.40	-0.025 -0.64	0.092 2.34
10 250	10.750 273.0	+0.063 +1.60	-0.031 -0.79	0.714 18.14	±0.015 ±0.38	0.400 10.16	-0.010 -0.25	10.562 268.28	-0.027 -0.69	0.094 2.39
12 300	12.750 323.9	+0.063 +1.60	-0.031 -0.79	0.714 18.14	±0.015 ±0.38	0.400 10.16	-0.010 -0.25	12.531 318.29	-0.030 -0.76	0.109 2.77

1. EP cut-grooves are for plastic coated or cement lined pipe to be connected with Shurjoint XH-70EP couplings only. Any coating applied to the gasket seat (A) and gasket width (B) should not exceed 0.25mm (0.010") thick. Do not roll groove pipe, which can damage the coating or lining and or create flared pipe ends.
2. Always use plain-end square cut pipe. Do not use beveled end pipe.
3. Always use an EP gasket with a XH-70EP coupling. Do not use a standard gasket.
4. The gasket seating area shall be free from deep scores, marks, or ridges that could prevent a positive seal.

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.