

79 "WILDCAT" COUPLING



The Shurjoint Model 79 "Wildcat" coupling is designed to mechanically join plain-end or beveled end carbon steel pipe. The "Wildcat" couplings can be used for a variety of applications including mining, process piping, manifold piping and oilfield services. The "Wildcat" couplings feature case-hardened jaws* within the housings and large diameter heat treated track bolts that when tightened securely grip the pipe surface. As with grooved couplings, a C-shaped rubber gasket effectively seals the pipe ends. (* For sizes larger than 14" (350 mm), jaws are made of 17-4PH stainless steel.)

The Model 79 coupling is recommended for use on carbon steel pipe with a hardness less than HB150, not recommended for stainless steel, plastic, HDPE, cast iron, or other brittle pipes.

Gaskets are available either in Grade E EPDM for water services of -29°F to +230°F (-34°C to +110°C) or Grade T Nitrile for oil services -20°F to +180°F (-29°C to +82°C).



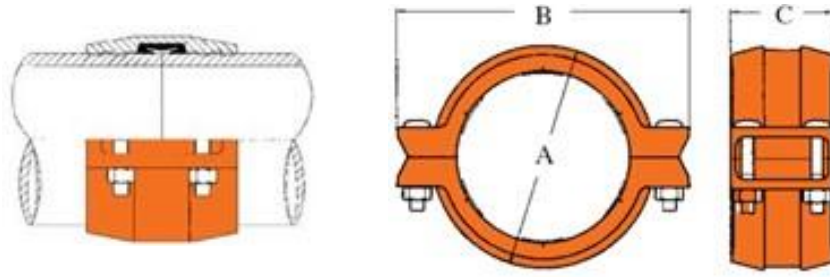
Bolts and nuts must always be tightened to the required torque.

material specification

- **Housing:**
Ductile Iron to ASTM A536, Gr. 65-45-12, min. tensile strength 65,000 psi (448 MPa).



- **Surface Finish:**
Standard painted finishes in orange or RAL3000 red.
 - Hot dip zinc galvanized (Option)
 - Epoxy Coatings in RAL3000 red or other colors (option).
 - **Jaws:**
Hardened Carbon Steel for 2" ~ 12" sizes and 17-4PH stainless steel for 14" ~ 20".
 - **Rubber Gasket:**
Grade "E" EPDM (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 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 "E-pw" - EPDM.
Grade "T" - Nitrile
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.



Model 79 "Wildcat" Coupling

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Required Bolt Torque	Bolts		Dimensions			Weight
					No.	Size	A	B	C	
in	in	psi	lbf	lbs-ft		in	in	in	in	lbs
mm	mm	bar	kN	Nm		mm	mm	mm	mm	kg
1	1.315	750	1020	110	2	1/2 x 2 3/8	2.60	4.37	3.05	3.3
25	33.4	52	4.55	150	2	1/2 x 2 3/8	66	111	78	1.5
1 1/2	1.900	750	2130	110	2	1/2 x 2 3/8	3.15	5.08	3.05	3.9
40	48.3	52	9.52	150	2	1/2 x 2 3/8	80	129	78	1.8
2	2.375	750	3320	150	2	5/8 x 3 1/2	3.75	5.94	3.54	7.0
50	60.3	52	14.84	200	2	5/8 x 3 1/2	95	151	90	3.2
2 1/2	2.875	600	3890	150	2	5/8 x 3 1/2	4.25	6.46	3.54	7.3
65	73.0	42	17.57	200	2	5/8 x 3 1/2	108	164	90	3.3
3	3.500	600	5770	200	2	3/4 x 4 3/4	5.00	7.48	3.54	11.0
80	88.9	42	26.06	270	2	3/4 x 4 3/4	127	190	90	5.0
4	4.500	450	7150	200	2	3/4 x 4 3/4	6.14	8.78	4.00	14.3
100	114.3	31	32.82	270	2	3/4 x 4 3/4	154	223	102	6.5
5	5.563	300	7290	250	2	7/8 x 6 1/2	7.36	10.31	4.38	24.2
125	141.3	20	32.91	340	2	7/8 x 6 1/2	187	262	111	11.0
6	6.625	300	10340	250	2	7/8 x 6 1/2	8.50	11.50	4.38	28.6
150	168.3	20	46.69	340	2	7/8 x 6 1/2	216	292	111	13.0
8	8.625	250	14600	200	4	3/4 x 4 3/4	10.88	14.02	5.00	41.8
200	219.1	17	64.06	270	4	3/4 x 4 3/4	276	356	127	19.0
10	10.750	250	22680	300	4	7/8 x 6 1/2	12.60	16.14	5.00	52.8
250	273.0	17	99.46	400	4	7/8 x 6 1/2	320	410	127	24.0
12	12.750	250	31900	350	4	1 x 6 1/2	14.60	18.54	5.00	63.1
300	323.9	17	140.00	470	4	1 x 6 1/2	371	471	127	28.7
14	14.000	200	30770	350	4	1 x 6 1/2	16.70	20.00	5.28	93.5
350	355.6	14	138.97	470	4	1 x 6 1/2	424	508	134	42.5
16	16.000	150	30140	350	4	1 x 6 1/2	18.70	22.00	5.28	95.7
400	406.4	10	129.65	470	4	1 x 6 1/2	475	559	134	43.5

*Working pressure is for plain-end standard wall steel pipe with hardness less than HB150.

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.