

MODEL 79 “WILDCAT” COUPLING

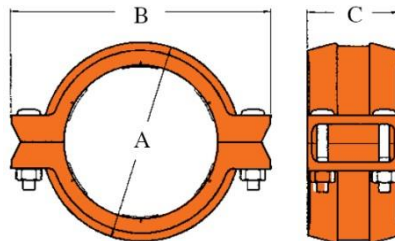
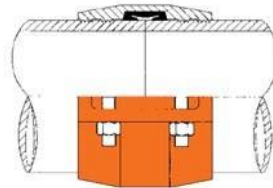
The **Shurjoint** Model 79 “Wildcat” coupling is designed to mechanically join plain-end or beveled end carbon steel pipe. The “Wildcat” couplings can be used for a variety of applications including mining, process piping, manifold piping and oilfield services. The “Wildcat” couplings feature case-hardened 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 pipe.

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.



10
YEAR
LIMITED
WARRANTY

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

Model 79 “Wildcat” Coupling

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load	Required Bolt Torque	Bolts		Dimensions			Weight
					No.	Size	A	B	C	
in	in	PSI	Lbs	Lbs-Ft		in	in	in	Lbs	
mm	mm	Bar	kN	Nm		mm	mm	mm	Kgs	
1	1.315	750	1020	150	2	½ x 2½	2.60	4.37	3.05	3.3
25	33.4	52	4.55	200	2	½ x 2½	66	111	78	1.5
1½	1.900	750	2130	150	2	½ x 2½	3.15	5.08	3.05	3.9
40	48.3	52	9.52	200	2	½ x 2½	80	129	78	1.8
2	2.375	750	3320	150	2	¾ x 3½	3.75	5.94	3.54	7.0
50	60.3	52	14.84	200	2	¾ x 3½	95	151	90	3.2
2½	2.875	600	3890	150	2	¾ x 3½	4.25	6.46	3.54	7.3
65	73.0	42	17.57	200	2	¾ x 3½	108	164	90	3.3
3	3.500	600	5770	200	2	¾ x 4¾	5.00	7.48	3.54	11.0
80	88.9	42	26.06	270	2	¾ x 4¾	127	190	90	5.0
4	4.500	450	7150	200	2	¾ x 4¾	6.14	8.78	4.00	14.3
100	114.3	31	32.82	270	2	¾ x 4¾	154	223	102	6.5

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Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load	Required Bolt Torque	Bolts		Dimensions			Weight
					No.	Size	A	B	C	
							in	in	in	
in	in	PSI	Lbs	Lbs-Ft		in	mm	mm	mm	Kgs
mm	mm	Bar	kN	Nm		in	mm	mm	mm	Kgs
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			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			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			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			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			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			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			475	559	134	43.5

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

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 (448MPa).

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, 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.

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

(Option) **Grade "T" Nitrile** (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).

Other options: 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 1 1/2 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.

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.