

MODEL 79 “WILDCAT” COUPLING

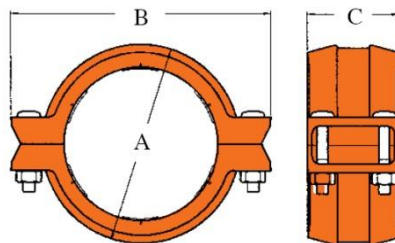
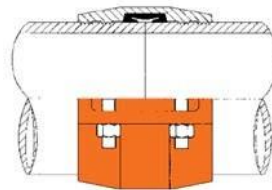
The **Shurjoint** Model 79 “Wildcat” coupling is designed to mechanically join plain-end or beveled end carbon steel pipe. The “Wildcat” couplings can be used for a variety of applications including mining, process piping, manifold piping and oilfield services. The “Wildcat” couplings feature case-hardened 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	110	2	½ x 2¾	2.60	4.37	3.05	3.3
25	33.4	52	4.55	150			66	111	78	1.5
1½	1.900	750	2130	110	2	½ x 2¾	3.15	5.08	3.05	3.9
40	48.3	52	9.52	150			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			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			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			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			154	223	102	6.5

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	
5	5.563	300	7290	250	2	⅞ x 6½	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	⅞ x 6½	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	¾ x 4¾	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	⅞ x 6½	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 6½	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 6½	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 6½	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 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.

(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.*