

## 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.

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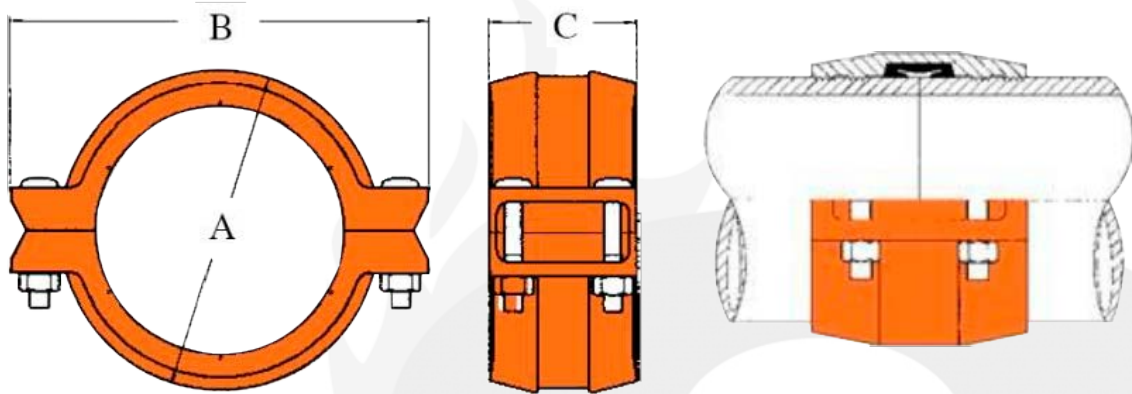
AQL PROTECCION

Carretera N-340 Km 1245, 3 Nave B-5 Polígono industrial El Pla 08750 Molins de Rei, Barcelona (España)  
Tel. (+34) 936800376 \* WhatsApp pedidos: 660781482 \* [www.aqlproteccion.com](http://www.aqlproteccion.com) \* [aql@aqlproteccion.com](mailto:aql@aqlproteccion.com)

ANBER

Avda. de las Flores, 13-15 P.E. El Molino 28970 Humanes de Madrid, Madrid (España)  
Tel. (+34) 916063711 \* WhatsApp pedidos: 649787619 \* [www.anber.es](http://www.anber.es) \* [anber@anber.es](mailto:anber@anber.es)

## DIMENSIONS



Nominal Size		Pipe O.D.	Max. Working Pressure (CWP)*		Max. End Load		Required Bolt Torque	BOLT		DIMENSIONS			Weight
in	mm	mm	PSI	Bar	Lbs	kN		No.	Size	A	B	C	
							Nm		in	mm	mm	mm	Kg
1"	25	33,7	750	52	1020	4,55	200	2	1/2 x 2 3/8	66	111	78	1,5
1 1/2"	40	48,3	750	52	2130	9,52	200	2	1/2 x 2 3/8	80	129	78	1,8
2"	50	60,3	750	52	3320	14,84	200	2	5/8 x 3 1/2	95	151	90	3,2
2 1/2"	65	73,0	600	42	3890	17,57	200	2	5/8 x 3 1/2	108	164	90	3,3
3"	80	88,9	600	42	5770	26,06	270	2	3/4 x 4 3/4	127	190	90	5,0
4"	100	114,3	450	31	7150	32,82	270	2	3/4 x 4 3/4	154	223	102	6,5
5"	125	141,3	300	20	7290	32,91	250	2	7/8 x 6 1/2	187	262	111	11,0
6"	150	168,3	300	20	10340	46,69	250	2	7/8 x 6 1/2	216	292	111	13,0
8"	200	219,1	250	17	14600	64,06	200	2	3/4 x 4 3/4	276	356	127	19,0
10"	250	273,0	250	17	22680	99,46	300	2	7/8 x 6 1/2	320	410	127	24,0
12"	300	323,9	250	17	31900	140,00	350	2	1 x 6 1/2	371	471	127	28,7
14"	350	355,6	200	14	30770	138,97	350	2	1 x 6 1/2	424	508	134	42,5
16"	400	406,4	150	10	30140	129,65	350	2	1 x 6 1/2	475	559	134	43,5

\*Working pressure is for plain-end standard wall steel pipe Schedule 40.

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# 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:** 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 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.

**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.

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