

## MODEL 79 “WILDCAT” COUPLING

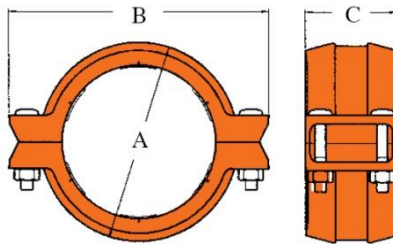
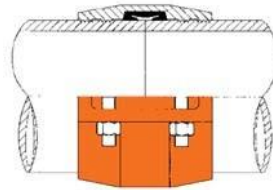
The **Shurjoint** Model 79 “Wildcat” coupling is designed to mechanically join plain-end or beveled end carbon steel pipe. The “Wildcat” couplings can be used for a variety of applications including mining, process piping, manifold piping and oilfield services. The “Wildcat” couplings feature case-hardened 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](http://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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|--------------|-----------|------------------------------|---------------|----------------------|-------|-------------|------------|-------|------|--------|
|              |           |                              |               |                      | No.   | Size        | A          | B     | C    |        |
|              |           |                              |               |                      |       |             | in         | in    | in   |        |
| in           | in        | PSI                          | Lbs           | Lbs-Ft               |       | in          | in         | in    |      |        |
| mm           | mm        | Bar                          | kN            | Nm                   |       |             | 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 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.*