# Style 89 Rigid Coupling Style 889 Rigid Coupling for Potable Water Applications

THIS COUPLING ASSEMBLY HAS A TORQUE REQUIREMENT. REFER TO THE BACK OF THIS TAG OR THE MARKINGS ON THE HOUSINGS FOR THE SPECIFIC TORQUE REQUIREMENT.

**WARNING** 

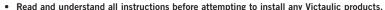


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- Always verify that the piping system has been completely depressurized and drained immediately
  prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- . Wear safety glasses, hardhat, and foot protection.
- Style 89/889 Couplings shall be installed only on stainless steel mating components that are prepared to Victaulic Original Groove System (OGS) Specifications.
- Refer to Victaulic publication 17.01 for stainless steel pipe preparation methods, which can be downloaded at victaulic.com.
- Victaulic RX grooving rolls shall be used for stainless steel pipe that is designated in Table 1 in Victaulic publication 17.01. Victaulic RX grooving rolls are silver in color and are identified by the "RX" marking on the face.

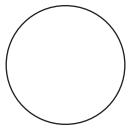
Failure to follow these instructions could result in death or serious personal injury and property damage.



1. CHECK MATING COMPONENT ENDS: The outside surface of the mating components, between the groove and the mating component ends, shall be generally free from indentations, projections, weld seam anomalies, and roll marks to ensure a leak-tight seal. All oil, grease, loose paint, dirt, and cutting particles shall be removed. The mating components' outside diameter ("OD"), groove dimensions, and maximum allowable flare diameter shall be within the tolerances published in current Victaulic Original Groove System (OGS) specifications, publication 25.01, which can be downloaded at victaulic.com.



2. CHECK GASKET AND LUBRICATE: Check the gasket to verify that it is suitable for the intended service. The color code identifies the material grade. Refer to Victaulic publication 05.01 for the color code chart, which can be downloaded at victaulic.com. Apply a thin coat of a compatible lubricant, such as Victaulic Lubricant or silicone grease to the gasket sealing lips and exterior. NOTE: Silicone spray is not a compatible lubricant.



# **ACAUTION**

 A thin coat of a compatible lubricant shall be applied to the gasket sealing lips and exterior to prevent pinching, rolling, or tearing during installation.

Failure to use a compatible lubricant may cause gasket damage, resulting in joint leakage and property damage.





3. INSTALL GASKET: Install the gasket over the mating component end. Verify that the gasket does not overhang the mating component end.



4. JOIN MATING COMPONENTS: Align and bring the two mating component ends together. Slide the gasket into position and center it between the groove of each mating component. Verify that no portion of the gasket extends into the groove of either mating component.

## **ACAUTION**

Verify that the gasket does not become rolled or pinched while installing the housings.

Failure to follow this instruction may cause gasket damage, resulting in joint leakage and property damage.



5. INSTALL HOUSINGS: Instal the housings over the gasket with the tongue and recess features mated properly (tongue in recess). Verify that the housings' keys engage the grooves completely on both mating components

### Required Torque Values and Helpful Information

Nominal inches/DN	Actual Outside Diameter inches/mm	Required Torque ft-lbs/ N•m	Nut Size inches/ Metric	Socket Size inches/ mm
2 – 3 DN50 – DN80	2.375 - 3.500 60.3 - 88.9	60 – 90 80 – 120	5⁄8 M16	1 ½ 27
DN65*	3.000 76.1	60 – 90 80 – 120	5/8 M16	1 ½ 27
4 DN100	4.500 114.3	85 – 125 115 – 170	<sup>3</sup> / <sub>4</sub> M20	1 ¼ 32
DN125*	5.500 139.7	85 – 125 115 – 170	<sup>3</sup> / <sub>4</sub> M20	1 ¼ 32
5*	5.563 141.3	85 – 125 115 – 170	<sup>3</sup> / <sub>4</sub> M20	1 ¼ 32
*	6.500 165.1	175 – 250 237 – 339	<sup>7</sup> / <sub>8</sub> M22	1 ½ 36
6 DN150	6.625 168.3	175 – 250 237 – 339	<sup>7</sup> / <sub>8</sub> M22	1 ½ 36
*	8.515 216.3	200 – 300 271 – 407	1 M24	1 5/8 41
8 DN200	8.625 219.1	200 – 300 271 – 407	1 M24	1 5/8 41
*	10.528 – 12.539 267.4 – 318.5	250 – 350 339 – 475	1 M24	1 5/8 41
10 – 12	10.750 – 12.750 273.0 – 323.9	250 – 350 339 – 475	1 M24	1 5/8 41



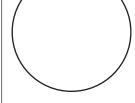
6. INSTALL BOLTS/NUTS: Install the holts. and thread a nut finger-tight onto each bolt. **NOTE:** Verify that the oval neck of each bolt seats properly in the bolt hole. If couplings are special-ordered with stainless steel bolts and nuts, an anti-seize compound shall be applied to the bolt threads.

# **WARNING**

- . Inspection of each joint is required.
- Improperly assembled ioints shall be corrected before the system is tested or placed into service.
- Any components that exhibit physical damage due to improper assembly shall be replaced before the system is tested or placed into service.
- . Failure to follow these instructions could cause joint failure, resulting in death or serious personal injury and property damage.



OF BOLT SEATED PROPERLY





### \* Style 89 only



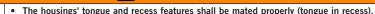
7. TIGHTEN NUTS: Tighten the nuts evenly by alternating sides until even gaps are achieved at the bolts pads **AND** the required torque value is achieved at each set of hardware Verify that the oval neck of each bolt seats properly in the bolt holes. Refer to the table to the right for the torque requirement. **NOTE:** It is important to tighten the nuts evenly by alternating sides to prevent gasket pinching.

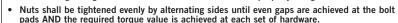




8. Inspect the bolt pads at each joint to verify that even gaps are achieved at the bolt pads AND the required torque value is achieved at each set of hardware.

# **AWARNING**





Failure to follow instructions for tightening coupling hardware could result in:

- · Personal injury or death
- Joint leakage and property damage
- A negative impact on system integrity

For complete contact information, visit victaulic.com

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