

Style SC85 Flexible Coupling for Shouldered Steel Pipe



WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
 - Confirm that any equipment, branch lines, or sections of piping that may have been isolated for/during testing or due to valve closures/positioning are identified, depressurized, and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
 - Wear safety glasses, hardhat, and foot protection.
- Failure to follow these instructions could result in death or serious personal injury and property damage.

NOTICE

- Gaskets for Style SC85 Couplings are pre-lubricated. Additional lubrication is not required for the initial installation of wet pipe systems that are installed at or continuously operating above 0°F/-18°C.
- Supplemental lubrication is required only if any of the following conditions exist. Apply a thin coat of a compatible lubricant to the gasket sealing lips, as noted in step 2b on this page. It is not necessary to remove the gasket from the housings to apply additional lubricant to the gasket sealing lips.
- If the installation or continuous operating temperature is below 0°F/-18°C
 - If the gasket has been exposed to fluids prior to installation
 - If the surface of the gasket has a dark black or shiny appearance
 - If the gasket is being installed into a dry pipe system
 - If the system will be subjected to air tests prior to being filled with water
 - If the gasket was involved in a previous installation
- Lubricated gaskets will not enhance sealing capabilities on adverse mating component conditions. Pipe condition and preparation shall conform to the requirements listed in these product installation instructions (refer to step 1 on this page).

INSTALLATION INSTRUCTIONS



1. CHECK SHOULDERS PIPE ENDS: The outside surface of the shouldered pipe end shall be generally free from indentations and projections to ensure a leak-tight seal. All oil, grease, loose paint, dirt, and cutting particles shall be removed.

2a. CHECK GASKET: 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.

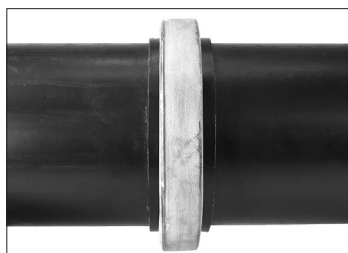


2b. IF ANY CONDITIONS LISTED IN THE FOLLOWING NOTICE ARE MET, APPLY A THIN COAT OF A COMPATIBLE LUBRICANT ONLY TO THE GASKET SEALING LIPS: For EPDM gaskets, use Victaulic Lubricant or an EPDM-compatible lubricant.

Silicone grease may be used (silicone spray is not a compatible lubricant). For silicone gaskets, use Victaulic Lubricant or a silicone-compatible lubricant. **DO NOT use silicone lubricant on silicone gaskets.**



3. POSITION GASKET: Position the gasket over the shouldered pipe end. Verify that the gasket does not overhang the shouldered pipe end to prevent pinching, cutting, or rolling the gasket.



4. JOIN SHOULDERS PIPE ENDS: Align and bring the two shouldered pipe ends together. Slide the gasket into position and center it between the shouldered pipe ends. Verify that no portion of the gasket extends over the shouldered pipe ends.

CAUTION

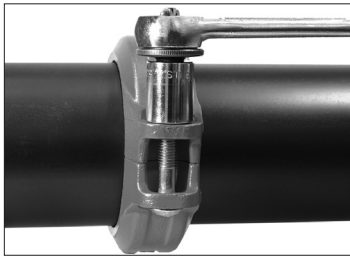
- Verify that the gasket does not become rolled or pinched while installing the housings.
- Failure to follow these instructions could cause damage to the gasket, resulting in joint leakage and property damage.



5. INSTALL HOUSINGS: Install the housings over the gasket. Verify that the housings' keys engage the shouldered pipe ends.



6. INSTALL BOLTS/NUTS: Install the bolts, and thread a nut finger-tight onto each bolt. **NOTE:** Verify that the oval neck of each bolt seats properly in the bolt hole.



7. TIGHTEN NUTS: Tighten the nuts evenly by alternating sides until metal-to-metal contact occurs at the bolt pads. Verify that the housings' keys engage the shouldered pipe ends completely during tightening.

WARNING

- Nuts shall be tightened evenly by alternating sides until metal-to-metal contact occurs at the bolt pads.
- Keep hands away from coupling openings during tightening.
- DO NOT overtighten coupling hardware.

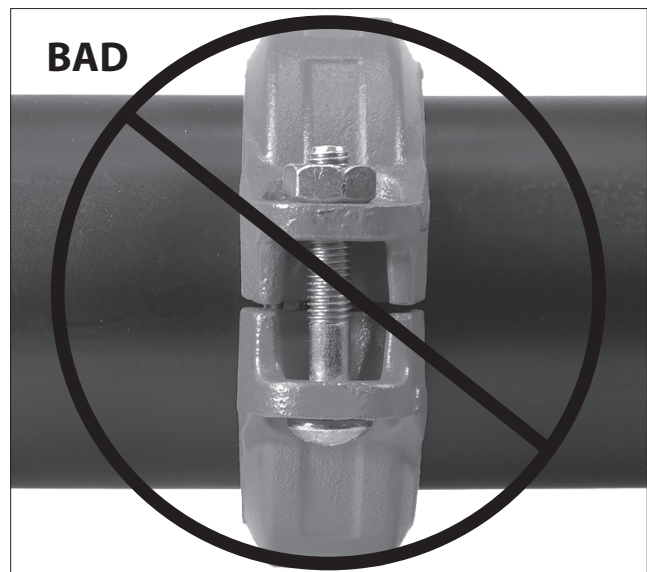
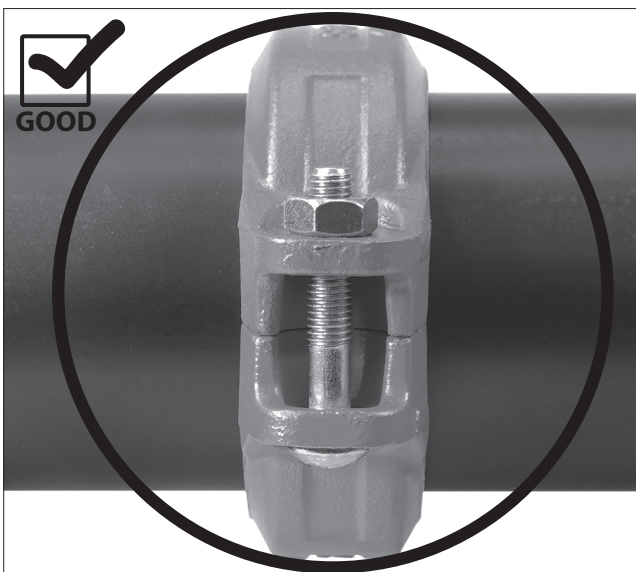
Failure to follow instructions for tightening coupling hardware could result in:

- Personal injury or death
- Bolt damage or fracture
- Damaged or broken bolt pads or coupling fractures
- Joint leakage and property damage
- A negative impact on system integrity

FOR 18-INCH/DN450 SIZE: A torque of 200 ft-lbs/270 N.m shall be applied to each nut after metal-to-metal bolt pad contact is achieved.

NOTICE

- It is important to tighten the nuts evenly by alternating sides to prevent gasket pinching.
- An impact tool or standard socket wrench with a deep-well socket can be used to bring the bolt pads into metal-to-metal contact.



8. INSPECT BOLT PADS: Visually inspect the bolt pads at each joint to ensure that metal-to-metal contact is achieved in accordance with step 7.

WARNING

- Visual inspection of each joint is critical.
- Improperly assembled joints shall be corrected before the system is placed in service.

Failure to follow these instructions could cause joint failure, resulting in death or serious personal injury and property damage.

STYLE SC85 HELPFUL INFORMATION

Size			Nut Size	Deep-Well Socket Size
Nominal inches DN	Actual Pipe Outside Diameter inches/mm	Actual Shoulder Outside Diameter inches/mm	inches/ metric	inches/ mm
2 DN50	2.375 60.3	2.638 67.0	$\frac{3}{8}$ M10	$\frac{1}{16}$ 17
3 DN80	3.500 88.9	3.818 97.0	$\frac{3}{8}$ M10	$\frac{1}{16}$ 17
4 DN100	4.500 114.3	4.818 122.4	$\frac{1}{2}$ M12	$\frac{7}{8}$ 22
	6.500 165.1	6.885 174.9	$\frac{5}{8}$ M16	1 $\frac{1}{16}$ 27
8 DN200	8.625 219.1	9.134 232.0	$\frac{3}{4}$ M20	1 $\frac{1}{4}$ 32
10 DN250	10.750 273.0	11.260 286.0	1 M24	1 $\frac{5}{8}$ 41
12 DN300	12.750 323.9	13.248 336.5	1 M24	1 $\frac{5}{8}$ 41
14 DN350	14.000 355.6	14.508 368.5	1 M24	1 $\frac{5}{8}$ 41
18 † DN450	18.000 457.0	18.504 470.0	1 M24	1 $\frac{5}{8}$ 41

NOTE: Imperial hardware has a chrome appearance. Metric hardware has a gold appearance.

† The 18-inch/DN450 assembly requires a torque of 200 ft-lbs/270 N.m. Refer to step 7 on the previous page.

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For complete contact information, visit victaulic.com

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