



Style 647-TT
Thread x Thread



Style 647-GT
OGS Groove x Thread



Style 647-GG
OGS Groove x CTS Groove

1.0 PRODUCT DESCRIPTION

Available Sizes:

- 647-TT: ½ – 4"
- 647-GT: 1 – 4"
- 647-GG: 2 – 6"

Maximum Working Pressure:

- 300 psi/2065 kPa/21 Bar

Temperature Rating:

- 647-TT – Based on temperature rating of pipe tape/dope used during installation
- 647-GT: – Based on temperature rating of pipe tape/dope or coupling/gasket assembly used during installation (whichever is lower)
- 647-GG: – Based on temperature rating of coupling/gasket assembly used during installation

Function:

- Designed to join carbon steel or stainless steel pipe to copper tubing with one fitting.
- Provides a set distance between the metals being joined while maintaining a minimal electric potential between the fitting and surrounding piping.

2.0 CERTIFICATIONS/LISTINGS



IAPMO Certified in accordance with NSF/ANSI/CAN 61 for +180°F/+82°C potable water service and NSF/ANSI/CAN 372

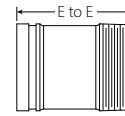
3.0 SPECIFICATIONS – MATERIAL

Fitting Body: Copper silicon casting conforming to UNS C87850

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

4.0 DIMENSIONS

Groove x Thread



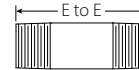
Style 647-GT
IPS Groove x Male NPT Thread

Pipe Size		Maximum Working Pressure	End to End	Units Per Box	Approximate Weight Each
Nominal	Actual Outside Diameter				
inches DN	inches mm	psi kPa	inches mm		lbs kg
1 DN25	1.315 33.7	300 2068	4.13 105	25	0.7 0.3
1 ¼ DN32	1.660 42.4	300 2068	4.13 105	10	1.0 0.5
1 ½ DN40	1.900 48.3	300 2068	4.13 105	10	1.1 0.5
2 DN50	2.375 60.3	300 2068	4.13 105	10	1.5 0.7
2 ½	2.875 73.0	300 2068	6.13 155	6	3.3 1.5
3 DN80	3.500 88.9	300 2068	6.13 155	6	4.3 2.0
4 DN100	4.500 114.3	300 2068	6.13 155	6	6.2 2.8

NOTE

- For 2 – 4"/DN50 – DN100 sizes, use a Style 644 Transition Coupling to go from CTS groove to Male NPT thread.

Thread x Thread

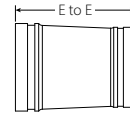


Style 647-TT
Male NPT Thread x Male NPT Thread

Pipe Size		Maximum Working Pressure	End to End	Units Per Box	Approximate Weight Each
Nominal	Actual Outside Diameter				
inches DN	inches mm	psi kPa	inches mm		lbs kg
½ DN15	0.840 21.3	300 2068	3.00 77	25	0.2 0.1
¾ DN20	1.050 26.7	300 2068	3.00 77	25	0.3 0.1
1 DN25	1.315 33.7	300 2068	4.00 102	25	0.6 0.3
1 ¼ DN32	1.660 42.4	300 2068	4.00 102	10	0.8 0.4
1 ½ DN40	1.900 48.3	300 2068	4.00 102	10	0.9 0.4
2 DN50	2.375 60.3	300 2068	4.00 102	10	1.2 0.5
2 ½	2.875 73.0	300 2068	6.00 153	6	2.9 1.3
3 DN80	3.500 88.9	300 2068	6.00 153	6	3.7 1.7
4 DN100	4.500 114.3	300 2068	6.00 153	6	5.3 2.4

4.0 DIMENSIONS (CONTINUED)

Groove x Groove



Style 647-GG
IPS Groove x CTS Groove







Nominal inches DN	Pipe Size		Maximum Working Pressure psi kPa	End to End inches mm	Units Per Box	Approximate Weight Each lbs kg
	Actual Outside Diameter					
	Steel (IPS) inches mm	Copper (CTS) inches mm				
2 DN50	2.375 60.3	2.125 54.0	300 2068	4.19 107	10	1.3 0.6
2½	2.875 73.0	2.625 66.7	300 2068	6.19 158	6	3.0 1.4
3 DN80	3.500 88.9	3.125 79.4	300 2068	6.19 158	6	3.9 1.8
4 DN100	4.500 114.3	4.125 104.8	300 2068	6.19 158	6	5.6 2.5
6 DN150	6.625 168.3	6.125 155.6	300 2068	6.19 158	6	9.8 4.4

NOTE

- To go from IPS groove to IPS groove, use a Style 644 Transition Coupling to transition the CTS groove to IPS groove.

5.0 NOTIFICATIONS

⚠ WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of 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, foot protection, and hearing protection.

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

6.0 REFERENCE MATERIALS

- [02.06: Victaulic Potable Water Approvals ANSI/NSF](#)
- [05.01: Victaulic Seal Selection Guide](#)
- [29.01: Victaulic Terms and Conditions/Warranty](#)
- [I-100: Victaulic Field Installation Handbook](#)
- [I-600: Victaulic Field Installation Handbook: Copper Connection Products](#)
- [I-644: Style 644 Installation-Ready™ Transition Coupling for Potable Water](#)
- [I-ENDCAP: Victaulic End Cap Installation Safety Instructions](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, warranty, installation instructions, or this disclaimer.

Installation

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at [victaulic.com](#).

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

Intellectual Property Rights

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Note

All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.