



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

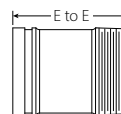
3.0 SPECIFICATIONS – MATERIAL

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



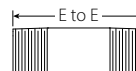
Style 647-GT
IPS Groove x Male NPT Thread

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

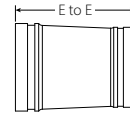


Style 647-TT
Male NPT Thread x Male NPT Thread

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

4.0 DIMENSIONS (CONTINUED)

Groove x Groove



Style 647-GG
IPS Groove x CTS Groove

Pipe Size			Maximum Working Pressure	End to End	Units Per Box	Approximate Weight Each
Nominal	Actual Outside Diameter					
	Steel (IPS)	Copper (CTS)				
inches DN	inches mm	inches mm	psi kPa	inches mm		lbs kg
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

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