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GRINNELL Mechanical Products Figure 672 Rigid Coupling – Patented For Joining Copper Tubing (CTS)

General Description

The GRINNELL Figure 672 Rigid Coupling provides a rigid joint to meet the special requirements of copper tubing installation. This is done by firmly gripping along the circumference of the copper tube groove. Figure 672 Rigid Couplings are a proven dependable method of joining copper tube and are an economical alternative to soldering (sweating) joints.

The Figure 672 Rigid Coupling is capable of pressures up to 300 psi (20,7 bars). The Figure 672 Coupling is UL Listed for grounding and bonding, and is suitable for bonding systems with a maximum service entrance capacity of 200 amps.

Note: *Rigid Couplings are recommended for low temperature and vacuum applications.*

NOTICE

The Figure 672 Rigid Coupling described herein must be installed and maintained in compliance with this document, in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of this device.

The owner is responsible for maintaining their system and devices in proper operating condition. Contact the installing contractor or product manufacturer with any questions.

Technical Data

Sizes

2 Inch thru 8 Inch (DN50 thru DN200)

Approvals

UL and ULC Listed
IAPMO UPC Certified
Certified to all requirements of NSF/ANSI 61

Housing

Ductile Iron conforming to ASTM A536, Grade 65-45-12

Protective Coatings

Copper Acrylic Enamel

Bolt/Nuts

Track Head Bolts:
Zinc Plated conforming to ASTM A183
Minimum Tensile = 110,000 psi
(758,422 kPa)
(Metric conforming to ASTM F568M)

Stainless Steel Bolts and Nuts are available upon request.

Gasket

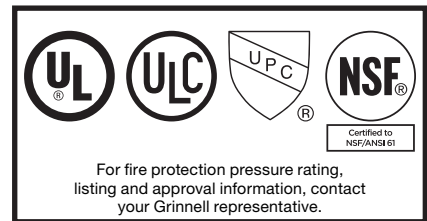
(specify when ordering)

Tri-Seal Grade "EN" EPDM
NSF 61 Approved compound
Copper Color Code
+86°F (+30°C) to +180°F (+82°C)
(for cold and hot potable water in the stated temperature range; not recommended for petroleum service)

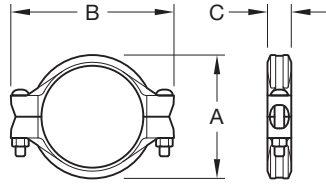
Ordering Information

When placing an order, indicate the full product name. Please specify the quantity and size Figure 672 Rigid Coupling with Grade "EN" EPDM Tri-Seal gasket.

Grinnell Mechanical Products, valves, accessories and other products are available throughout the U.S., Canada, and internationally, through a network of distribution centers. You may write directly or call 215-362-0700 for the distributor nearest you.



For warranty terms and conditions, visit www.grinnell.com



Copper Tube Size		Dimensions			Bolt Size* Dia. x Lg.	Net Weight Lbs. kg
Nominal ANSI Inches DN	O.D. Inches mm	A Inches mm	B Inches mm	C Inches mm		
2 DN50	2.125 54,0	3.09 78,6	4.65 118,1	1.72 43,7	3/8 x 2-1/4 M10 x 57	2.1 0,9
2-1/2 DN65	2.625 66,7	3.59 91,3	5.38 136,7	1.72 43,7	3/8 x 2-1/4 M10 x 76	2.3 1,1
3 DN80	3.125 79,4	4.12 104,7	6.25 158,8	1.72 43,7	1/2 x 3 M12 x 57	2.9 1,3
4 DN100	4.125 104,8	5.33 135,3	7.75 196,9	1.86 47,2	1/2 x 3 M12 x 57	3.9 1,8
5 DN125	5.125 130,7	6.48 164,6	9.25 235,0	1.86 47,2	5/8 x 3-1/4 M16 x 83	6.0 2,7
6 DN150	6.125 155,6	7.25 184,1	10.25 260,4	1.86 47,2	5/8 x 3-1/4 M16 x 83	6.7 3,0
8 DN200	8.125 206,4	9.64 244,8	12.75 323,9	1.86 47,2	3/4 x 4-3/4 M20 x 121	10.5 4,8

* Gold color-coded metric bolts sizes available upon request.

FIGURE 1
FIGURE 672 RIGID GROOVED COUPLING
FOR JOINING COPPER TUBING (CTS)

Nominal ANSI Inches DN	Type "K" ASTM B88			Type "L" ASTM B88			Type "M" ASTM B88			DWV ASTM B306		
	Wall Thick. Inches mm	Max. Work. Press. psi bar	Max. End Load Lbs. kN	Wall Thick. Inches mm	Max. Work. Press. psi bar	Max. End Load Lbs. kN	Wall Thick. Inches mm	Max. Work. Press. psi bar	Max. End Load Lbs. kN	Wall Thick. Inches mm	Max. Work. Press. psi bar	Max. End Load Lbs. kN
2 DN50	0.083 2,1	300 20,7	1,065 4,74	0.070 1,8	300 20,7	1,065 4,74	0.058 1,5	250 17,2	890 3,96	0.042 1,1	100 6,9	354 1,57
2-1/2 DN65	0.095 2,4	300 20,7	1,625 7,23	0.080 2,0	300 20,7	1,625 7,23	0.065 1,7	250 17,2	1,350 6,01	-	-	-
3 DN80	0.109 2,8	300 20,7	2,300 10,23	0.090 2,3	300 20,7	2,300 10,23	0.072 1,8	250 17,2	1,415 6,30	0.045 1,1	100 6,9	765 3,40
4 DN100	0.134 3,4	300 20,7	4,005 17,82	0.110 2,8	300 20,7	4,005 17,82	0.095 2,4	250 17,2	3,340 14,86	0.058 1,5	100 6,9	1,335 5,94
5 DN125	0.160 4,1	300 20,7	6,190 27,55	0.125 3,2	300 20,7	6,190 27,55	0.109 2,8	200 13,8	4,125 18,36	0.072 1,8	100 6,9	2,060 9,17
6 DN150	0.192 4,9	300 20,7	8,840 39,34	0.140 3,6	300 20,7	8,840 39,34	0.122 3,1	200 13,8	5,890 26,21	0.083 2,1	100 6,9	2,945 13,10
8 DN200	0.271 6,9	300 20,7	15,550 69,2	0.200 5,1	300 20,7	15,550 69,2	0.170 4,3	200 13,8	10,370 46,10	0.109 2,8	100 6,9	5,180 23,0

TABLE A
FIGURE 672 RIGID GROOVED COUPLING
PRESSURE RATINGS