



Grinnell[®]
MECHANICAL PRODUCTS

Figure 780 Grooved Snap Coupling

Ideal for:

- OEM
- Industrial
- Mining

Available in sizes 1-1/2 to 8 inches (DN40 to DN200)

The Figure 780 Grooved Snap Coupling is designed for quickly connecting and disconnecting cut or rolled grooved piping systems. The coupling features a unique, hinged lever mechanism for joining grooved segments easily and securely without the need for nuts and bolts. To secure the lever handle, a split pin locks the coupling housing segments in place.

Additional Features:

- Unique two-step closing feature allows for safe and quick installation
- Sizes 5 to 8 inches (DN125 to DN200) feature a cross-ribbed housing design for extra strength
- Rated for pressures up to 300 psi (20,7 bar)
- Backed by the industry's best 10-Year Limited Warranty

Refer to **Technical Data Sheets G145 and G944** for information on technical data, ordering procedures, installation and assembly instructions, and our limited warranty.



Figure 780 Grooved Snap Coupling

TECHNICAL DATA

Sizes

1-1/2 to 8 inches (DN40 to DN200)

Maximum Pressure

300 psi (20,7 bar)

Housing

Ductile iron conforming to ASTM A 536, Grade 65-45-12

Finishes

- Black electro-deposition coated (standard)
- Hot dipped galvanized (optional)

Toggle Links

Plated carbon steel conforming to ANSI C1010 or C1020

Hinge Pin

Case-hardened carbon steel conforming to ANSI C1212

Rivet

Carbon steel conforming to ANSI C1010

Split Pin

Carbon steel wire rod conforming to ASTM A 421

Gasket Materials

- Grade "E" EPDM, Green color code
-30°F to +230°F (-34°C to +110°C)
- Grade "T" Nitrile, Orange color code
-20°F to +180°F (-29°C to +82°C)

Refer to Technical Data Sheet G610 for more gasket information.



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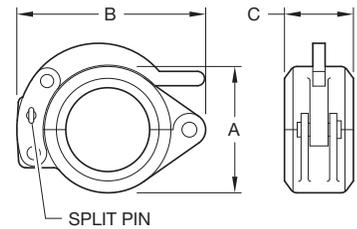


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by Tyco Fire Suppression & Building Products

Figure 780

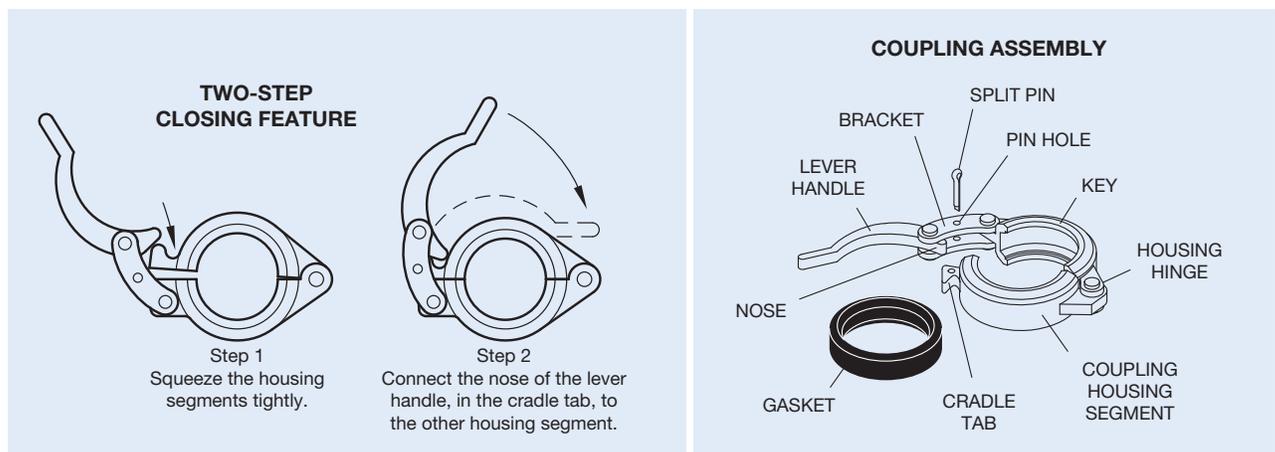
Grooved Snap Coupling



NOMINAL DIMENSIONS

Nominal Pipe Size		Max. Working Pressure psi (bar)	Max. End Load Lbs. (kN)	Max. End Gap Inches (mm)	Nominal Dimensions			Deflection		Approx. Weight Lbs. (kg)
ANSI Inches DN	O.D. Inches (mm)				A Inches (mm)	B Inches (mm)	C Inches (mm)	Degrees per coupling	Inches/ Foot (mm/m)	
1-1/2 DN40	1.900 (48,3)	300 (20,7)	851 (3,8)	0.06 (1.6)	2.95 (75,0)	4.65 (118,0)	1.85 (47,0)	3°48'	0.80 (66,4)	2.2 (1,0)
2 DN50	2.375 (60,3)	300 (20,7)	1,329 (5,9)	0.06 (1.6)	3.39 (86,0)	4.76 (121,0)	1.89 (48,0)	3°31'	0.74 (61,5)	2.4 (1,1)
2-1/2 DN65	2.875 (73,0)	300 (20,7)	1,947 (8,7)	0.06 (1.6)	3.62 (92,0)	5.91 (150,0)	1.89 (48,0)	2°30'	0.52 (43,7)	3.1 (1,4)
- DN65	3.000 (76,1)	300 (20,7)	2,121 (9,4)	0.06 (1.6)	3.62 (92,0)	5.91 (150,0)	1.89 (48,0)	2°24'	0.50 (41,9)	3.1 (1,4)
3 DN80	3.500 (88,9)	300 (20,7)	2,886 (12,8)	0.06 (1.6)	4.69 (119,0)	6.42 (163,0)	1.89 (48,0)	2°24'	0.50 (41,9)	4.0 (1,8)
4 DN100	4.500 (114,3)	300 (20,7)	4,771 (21,2)	0.13 (3.2)	6.50 (165,0)	8.07 (205,0)	2.05 (52,0)	3°12'	0.67 (55,9)	5.9 (2,7)
- DN125	5.500 (139,7)	300 (20,7)	7,127 (31,7)	0.13 (3.2)	7.44 (189,0)	9.96 (253,0)	2.05 (52,0)	2°37'	0.55 (45,7)	10.8 (4,9)
5 DN125	5.565 (141,3)	300 (20,7)	7,289 (32,4)	0.13 (3.2)	7.44 (189,0)	9.96 (253,0)	2.05 (52,0)	2°36'	0.54 (45,4)	10.8 (4,9)
- DN150	6.500 (165,1)	300 (20,7)	9,955 (44,3)	0.13 (3.2)	8.39 (213,0)	10.94 (278,0)	2.05 (52,0)	2°14'	0.47 (39,0)	12.8 (5,8)
6 DN150	6.625 (168,3)	300 (20,7)	10,341 (46,0)	0.13 (3.2)	8.50 (216,0)	11.06 (281,0)	2.05 (52,0)	2°10'	0.45 (37,8)	12.8 (5,8)
8 DN200	8.625 (219,1)	300 (20,7)	17,528 (78,0)	0.13 (3.2)	10.95 (278,0)	14.02 (356,0)	2.44 (62,0)	1°40'	0.35 (29,1)	20.5 (9,3)

Pressure ratings listed are cold water pressure or maximum working pressure within the service temperature range of the gasket used in the coupling. Maximum working pressures and end loads listed are a total of internal and external pressures and loads based on Schedule 40 steel pipe grooved in accordance with Standard Cut Groove or Roll Groove Specifications.



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