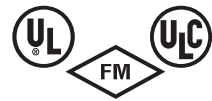


C-1 Flexible Coupling

ANVILStar™
Fire Products Division of Anvil® International



The Model C1 is designed for a broad range of piping applications. It is a flexible style which provides allowance for controlled pipe movement caused by thermal changes, settling or seismic action, as well as dampening noise and vibration.



APPROVED

For Listing/Approval Details
and Limitations visit our Web Site
www.anvilintl.com or contact an
Anvil®/AnvilStar™ Sales Representative.

MATERIAL SPECIFICATIONS

HOUSING:

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

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAE J995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

STAINLESS STEEL BOLTS & NUTS:

Stainless steel bolts and nuts are also available. Contact an AnvilStar Representative for more information.

COATINGS:

Rust inhibiting paint Color: ORANGE (standard)

Hot Dipped Zinc Galvanized (optional)

Other available options: Example: RAL3000 or RAL9000 Series

For other coating requirements contact an AnvilStar Representative.

LUBRICATION:

Standard Gruvlok

Gruvlok Xtreme™ Required for dry pipe systems and freezer applications.

GASKETS: Materials

Properties as designated in accordance with ASTM D-2000.

Grade "E" EPDM (Green color code) NSF-61 Certified

-40°F to 230°F (Service Temperature Range)(-40°C to 110°C)

Recommended for water service, diluted acids, alkalies solutions, oil-free air and many chemical services.

NOT FOR USE IN PETROLEUM APPLICATIONS.

Pre-Lubricated "C" Style Grade "E" Gasket (Violet color code)

-40°F to 150°F (Service Temperature Range)(-40°C to 65°C)

Recommended for wet and dry (oil free air) pipe fire protection sprinkler systems. For dry pipe systems and freezer applications, Gruvlok Xtreme™ Lubricant is required.

Grade "T" Nitrile (Orange color code)

-20°F to 180°F (Service Temperature Range)(-29°C to 82°C)

Recommended for petroleum applications, air with oil vapors and vegetable and mineral oils.

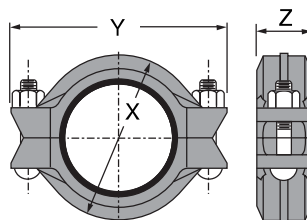
NOT FOR USE IN HOT WATER OR HOT AIR.

GASKET TYPE:

Standard C Style

Flush Gap (1 1/4" - 8")

C-1 Flexible Coupling



C-1 FLEXIBLE COUPLING

Nominal Size	O.D.	Max. Wk. Pressure	Max. End Load	Range of Pipe End Separation	Deflection From $\perp$		Coupling Dimensions			Coupling Bolts		Specified Torque §		Approx. Wt Ea.
					Per Coupling	Pipe	X	Y	Z	Qty.	Size	Min.	Max.	
In./DN(mm)	In./mm	PSI/bar	Lbs. (kN)	In./mm	Degrees	In./Ft. - mm/m	In./mm	In./mm	In./mm		In./mm	Ft.-Lbs./ N-m		Lbs./kg
1¼ 32	1.660 42.2	300 20.7	649 2.89	0-0.13 0-3.2	4°-19'	0.9 75	2⅞ 73	4½ 114	1⅞ 48	2	¾ x 2	30 40	45 60	1.4 0.6
1½ 40	1.900 48.3	300 20.7	851 3.78	0-0.13 0-3.2	3°-46'	0.79 66	3⅞ 80	4¾ 121	1⅞ 48	2	¾ x 2	30 40	45 60	1.5 0.7
2 50	2.375 60.3	300 20.7	1,329 5.91	0-0.13 0-3.2	3°-01'	0.63 53	3½ 89	5¼ 133	2 51	2	¾ x 2	80 110	100 150	2.0 0.9
2½ 65	2.875 73.0	300 20.7	1,948 8.66	0-0.13 0-3.2	2°-29'	0.52 43	4⅞ 105	5¾ 146	2 51	2	¾ x 2	80 110	100 150	2.3 1.0
3 O.D. 76.1	2.996 76.1	300 20.7	2,115 9.41	0-0.13 0-3.2	2°-23'	0.5 42	4¾ 108	5¾ 146	2 51	2	¾ x 2	80 110	100 150	2.3 1.0
3 80	3.500 88.9	300 20.7	2,886 12.84	0-0.13 0-3.2	2°-03'	0.43 36	4¾ 121	6¾ 171	2 51	2	1½ x 2¾	80 110	100 150	2.7 1.2
4 100	4.500 114.3	300 20.7	4,771 21.22	0-0.25 0-6.4	3°-11'	0.67 56	6 153	8 203	2⅞ 54	2	1½ x 2¾	100 135	130 175	4.4 2.0
5 125	5.563 141.3	300 20.7	7,292 32.44	0-0.25 0-6.4	2°-35'	0.54 45	7¼ 184	10 254	2⅞ 54	2	5/8 x 3¼	130 175	180 245	6.3 2.8
6½ O.D. 165.1	6.500 165.1	300 20.7	9,955 44.28	0-0.25 0-6.4	2°-12'	0.35 29	8⅞ 207	10¾ 273	2⅞ 54	2	5/8 x 3¼	130 175	180 245	7.0 3.2
6 150	6.625 168.3	300 20.7	10,341 46.00	0-0.25 0-6.4	2°-10'	0.45 38	8¼ 210	11 279	2⅞ 54	2	5/8 x 3¼	130 175	180 245	7.0 3.2
8 200	8.625 219.1	300 20.7	17,528 77.97	0-0.25 0-6.4	1°-40'	0.29 35	10⅞ 270	13¾ 349	2½ 64	2	¾ x 4¼	180 245	220 300	13.0 5.9
10 250	10.750 273.1	300 20.7	27,229 121.12	0-0.25 0-6.4	1°-20'	0.28 23	13½ 343	16¼ 413	2¾ 70	2	7/8 x 5½	180 245	220 300	21.5 9.6
12 300	12.750 323.9	300 20.7	38,303 170.38	0-0.25 0-6.4	1°-07'	0.23 19	15½ 394	18¾ 476	2¾ 70	2	7/8 x 5½	180 245	220 300	27.4 12.4

1. Working pressure and/or end load are total allowable, based on standard weight steel pipe, roll or cut grooved.

2. One time field test pressure may be increased to 1.5 times the figures listed above.

§ - For additional Bolt Torque information see Technical Data Section.

WARNING

For dry pipe systems and freezer applications lubrication of the gasket is required, Gruvlok® Xtreme™ Lubricant is Required.