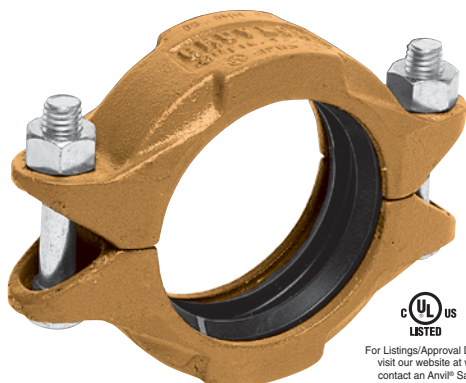


FIG. 7000

Lightweight Flexible Coupling



UL LISTED FM APPROVED
For Listings/Approval Details and Limitations, visit our website at www.anvili.com or contact an Anvil® Sales Representative.

The Fig. 7000 Lightweight Flexible Coupling is designed for applications where system flexibility is desired.

The Fig. 7000 Coupling is approximately 30% lighter in weight than the Fig. 7001 Coupling, and allows for working pressure ratings up to 600 psi (41.4 bar).

The Figure 7000 Lightweight Flexible Coupling is intended for use in several applications. See gasket Grade Index for gasket recommendations.

See technical data section for design factors.

MATERIAL SPECIFICATIONS

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 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 Anvil Representative for more information.

HOUSING:

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

COATINGS:

- ☐ Rust inhibiting paint – Color: ORANGE (standard)
 - ☐ Hot Dipped Zinc Galvanized (optional)
 - ☐ Other Colors Available (IE: RAL3000 and RAL9000)
- For other Coating requirements contact an Anvil Representative.

GASKETS: Materials

Properties as designated in accordance with ASTM D 2000

- ☐ **Grade “E” EPDM** (Green color code)
-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 other chemical services.
NOT FOR USE IN PETROLEUM APPLICATIONS.

- ☐ **Grade “EP” EPDM** (Green and Red color code)
-40°F to 250°F (Service Temperature Range)(-40°C to 121°C)
Recommended for water service, diluted acids, alkalies solutions, oil-free air and many other chemical services.
NOT FOR USE IN PETROLEUM APPLICATIONS.

For hot water applications the use of Gruvlok Extreme Temperature lubricant is recommended. NSF-61 Certified for cold and hot water applications up through 12”.

- ☐ **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

- ☐ **Grade “O” Fluoro-Elastomer** (Blue color code)
-20°F to 300°F (Service Temperature Range)(-29°C to 149°C)
Recommended for high temperature resistance to oxidizing acids, petroleum oils, hydraulic fluids, halogenated hydrocarbons and lubricants.

- ☐ **Grade “L” Silicone** (Red color code)
-40°F to 350°F (Service Temperature Range)(-40°C to 177°C)
Recommended for dry, hot air and some high temperature chemical services.

GASKET TYPE:

- ☐ Standard C Style
- ☐ Flush Gap (1" - 8")

LUBRICATION:

- ☐ Standard Gruvlok
- ☐ Gruvlok Xtreme™ (Do Not use with Grade “L”)

PROJECT INFORMATION		APPROVAL STAMP	
Project:		☐ Approved	
Address:		☐ Approved as noted	
Contractor:		☐ Not approved	
Engineer:		Remarks:	
Submittal Date:			
Notes 1:			
Notes 2:			

FIG. 7000

Lightweight Flexible Coupling

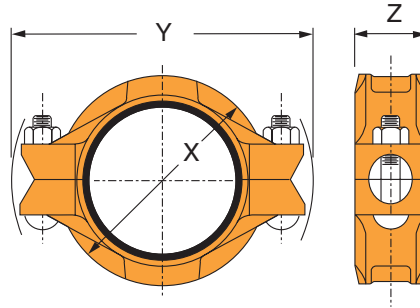


FIGURE 7000 COUPLING

Nominal Size	O.D.	Max. Working Pressure	Max. End Load	Range of Pipe End Separation	Deflection from C		Coupling Dimensions			Coupling Bolts		Specified Torque §		Approx. Wt. Ea.
					Per Coupling	of Pipe	X	Y	Z	Qty.	Size	Min.	Max.	
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	Degrees(°)-Minutes(')	In./ft-mm/m	In./mm	In./mm	In./mm		In./mm	FL-Lbs./N-m		Lbs./Kg
1	1.315	600	815	0-1/32	1° 22'	0.29	2 3/8	4 1/4	1 3/4	2	3/8 x 2 1/4	30	45	1.3
25	33.4	41.4	3.62	0-0.79		23.8	60	108	44		M10 x 57	40	60	0.6
1 1/4	1.660	600	1,299	0-1/32	1° 5'	0.23	2 3/4	4 3/8	1 3/4	2	3/8 x 2 1/4	30	45	1.4
32	42.2	41.4	5.78	0-0.79		18.8	70	111	44		M10 x 57	40	60	0.6
1 1/2	1.900	600	1,701	0-1/32	0° 57'	0.20	3	4 5/8	1 3/4	2	3/8 x 2 1/4	30	45	1.5
40	48.3	41.4	7.57	0-0.79		16.5	76	117	44		M10 x 57	40	60	0.7
2	2.375	600	2,658	0-1/32	0° 45'	0.16	3 1/2	5 1/2	1 3/4	2	3/8 x 2 1/4	30	45	1.7
50	60.3	41.4	11.82	0-0.79		13.1	89	140	44		M10 x 57	40	60	0.8
2 1/2	2.875	600	3,895	0-1/32	0° 37'	0.13	4	5 3/4	1 3/4	2	3/8 x 2 1/4	30	45	1.9
65	73.0	41.4	17.33	0-0.79		10.9	102	146	44		M10 x 57	40	60	0.9
3 O.D.	2.996	600	4,230	0-1/32	0° 36'	0.13	4	6 1/8	1 3/4	2	3/8 x 2 1/4	30	45	2.3
76.1	76.1	41.4	18.82	0-0.79		10.4	102	156	44		M10 x 57	40	60	1.0
3	3.500	600	5,773	0-1/32	0° 31'	0.11	4 5/8	6 3/4	1 3/4	2	1/2 x 2 3/4	80	100	2.9
80	88.9	41.4	25.68	0-0.79		8.9	117	171	44		M12 x 70	110	150	1.3
3 1/2	4.000	600	7,540	0-1/32	0° 27'	0.09	5 1/8	7 5/8	1 3/4	2	1/2 x 3	80	100	3.1
90	101.6	41.4	33.54	0-0.79		7.8	130	194	44		M12 x 76	110	150	1.4
4 1/4 O.D.	4.250	600	8,512	0-3/32	1° 16'	0.26	5 1/2	7 3/4	2	2	1/2 x 3	80	100	4.0
108.0	108.0	41.4	37.86	0-2.38		22.0	140	197	51		M12 x 76	110	150	1.8
4	4.500	600	9,543	0-3/32	1° 12'	0.25	5 7/8	8 1/8	2	2	1/2 x 3	80	100	4.6
100	114.3	41.4	42.45	0-2.38		20.8	149	206	51		M12 x 76	110	150	2.1
5 1/4 O.D.	5.236	500	10,766	0-3/32	1° 2'	0.21	6 1/2	9 1/8	2	2	5/8 x 3 1/2	100	130	5.7
133.0	133.0	34.5	47.89	0-2.38		17.9	165	232	51		M16 x 85	135	175	2.6
5 1/2 O.D.	5.500	500	11,879	0-3/32	0° 59'	0.20	6 3/4	9 3/8	2	2	5/8 x 3 1/2	100	130	6
139.7	139.7	34.5	52.84	0-2.38		17.0	171	238	51		M16 x 85	135	175	2.7
5	5.563	500	12,153	0-3/32	0° 58'	0.20	7	9 5/8	2	2	5/8 x 3 1/2	100	130	6.1
125	141.3	34.5	54.06	0-2.38		16.8	178	244	51		M16 x 85	135	175	2.8
6 1/4 O.D.	6.259	500	15,384	0-3/32	0° 51'	0.18	7 1/2	10 3/8	2	2	5/8 x 3 1/2	100	130	6.7
159.0	159.0	34.5	68.43	0-2.38		14.9	191	264	51		M16 x 85	135	175	3.0
6 1/2 O.D.	6.500	500	16,592	0-3/32	0° 50'	0.17	7 3/4	10 3/4	2	2	5/8 x 3 1/2	100	130	7.0
165.1	165.1	34.5	73.80	0-2.38		13.1	197	273	51		M16 x 85	135	175	3.2
6	6.625	500	17,236	0-3/32	0° 49'	0.17	8	11	2	2	5/8 x 3 1/2	100	130	8.1
150	168.3	34.5	76.67	0-2.38		14.1	203	279	51		M16 x 85	135	175	3.7
8	8.625	500	29,213	0-3/32	0° 37'	0.13	10 1/2	12 13/16	2 1/2	2	3/4 x 4 1/2	130	180	14.2
200	219.1	34.5	129.95	0-2.38		10.9	264	337	60		M20 x 110	175	245	6.4

NOTES:

Range of Pipe End Separation and Angular Deflection values are for roll grooved pipe and may be doubled for cut groove pipe. See page 190 for details. Refer to page 196 for Misalignment & Deflection Calculations and page 197 for Curve Layout Calculations.

For additional details see "Coupling Data Chart Notes" on page 17.
 § - For additional Bolt Torque Information, see page 190.
 See Installation & Assembly directions on page 159.
 Not for use in copper systems.