



TECHNICAL DATA

**GROOVED COUPLING
MODEL V-7705 STANDARD
FLEXIBLE COUPLING**

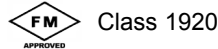
The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

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1. DESCRIPTION

VGS® Model V-7705 Standard Flexible Couplings are available in sizes 1" through 12". Fitting solutions are available in a number of styles and configurations to support a variety of applications. VGS® Standard Flexible Couplings are manufactured at ISO9001 certified facilities and are designed to conform to ASTM and other standards where applicable. These products are manufactured and designed to conform to ASTM F1476.

2. LISTINGS AND APPROVALS



3. TECHNICAL DATA

Specifications:

Maximum working pressure: 300 psi (21 bar)

Ductile iron conforming to ASTM A536

Grade 65-45-12

Coating rust inhibiting paint - Orange RAL 2001

Hot dipped Zinc galvanized versions are available (conforming to ASTM A153); when ordering, add a "G" suffix to the Model number.

Rubber compound EPDM Grade E conforming to ASTM D2000, AWWA C606, NSF 61 and IAPMO.

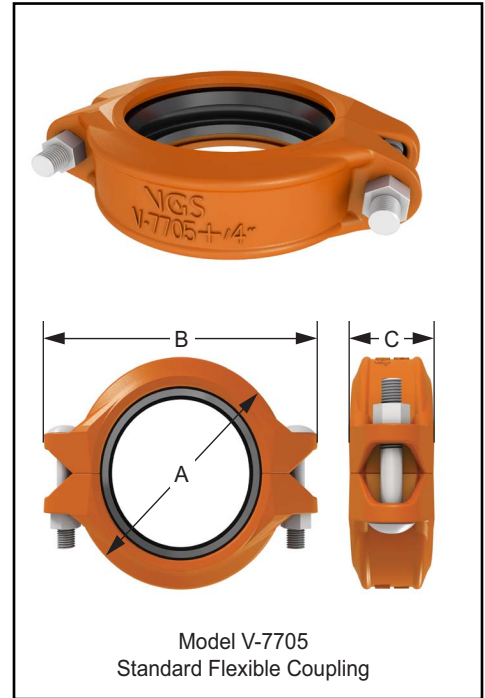
Nuts: Zinc plated, Carbon Steel conforming to ASTM A563 Grade B

Track Bolts: 10B21 Boron Steel

The latest VGS® Technical Data can be accessed at <http://www.vikinggroupinc.com>. Scan to visit our Mobile website:



<http://vikinggroup.mobi/p/46374>



Model V-7705 Standard Flexible Coupling

Table 1: V-7705

Nominal Size in (mm)	Pipe O.D. in (mm)	Max. Working Pressure PSI (Bar)	Max. End Load Lbs/kN	Axial Displacement in (mm)	Dimensions			Bolt Size		Weight Lbs (Kgs)
					A in (mm)	B in (mm)	C in (mm)	No.	in (mm)	
1 (25)	1.315 (33)	300 (21)	406 (1.75)	0.0625 (1.6)	2.2 (56)	3.94 (100)	1.77 (45)	2	3/8 x 1-3/4 (M10 x 45)	1.3 (0.6)
1.25 (32)	1.66 (42)	300 (21)	649 (2.79)	0.0625 (1.6)	2.58 (66)	4.09 (104)	1.85 (47)	2	3/8 x 2-1/8 (M10 x 55)	1.4 (0.6)
1.5 (40)	1.9 (48)	300 (21)	850 (3.66)	0.125 (3.2)	2.82 (72)	4.25 (108)	1.815 (47)	2	3/8 x 2-1/8 (M10 x 55)	1.6 (0.7)
2 (50)	2.375 (60)	300 (21)	1330 (5.71)	0.125 (3.2)	3.39 (86)	5.12 (130)	1.89 (48)	2	3/8 x 2-1/8 (M10 x 55)	1.9 (0.9)
2.5 (65)	2.875 (73)	300 (21)	1950 (8.37)	0.0625 (1.6)	3.82 (97)	5.63 (143)	1.89 (48)	2	3/8 x 2-1/8 (M10 x 55)	2.0 (1.9)
3 (80)	3.5 (89)	300 (21)	2885 (12.41)	0.125 (3.2)	4.49 (114)	6.42 (163)	1.93 (49)	2	1/2 x 3 (M12 x 75)	3.1 (1.4)
4 (100)	4.5 (114)	300 (21)	4771 (24.77)	0.125 (3.2)	5.83 (148)	7.80 (198)	2.05 (52)	2	1/2 x 3 (M12 x 75)	4.6 (2)
5 (125)	5.563 (141)	300 (21)	7290 (32.45)	0.125 (3.2)	6.79 (173)	9.25 (235)	2.09 (53)	2	5/8 x 3-1/2 (M16 x 90)	6.3 (2.9)
6 (150)	6.625 (168)	300 (21)	10340 (46.02)	0.125 (3.2)	7.91 (201)	10.55 (268)	2.13 (54)	2	5/8 x 3-1/2 (M16 x 90)	7.3 (3.3)
8 (200)	8.625 (219)	300 (21)	17525 (78)	0.25 (6.4)	10.35 (263)	13.27 (337)	2.44 (62)	2	5/8 x 3-1/2 (M16 x 90)	12.1 (5.5)
10 (250)	10.75 (243)	300 (21)	27228 (121.19)	0.125 (3.2)	12.76 (324)	15.51 (394)	2.62 (67)	2	3/4 x 4-3/4 (M20 x 120)	19.7 (8.9)
12 (300)	12.75 (330)	300 (21)	38302 (170.47)	0.189 (4.8)	14.65 (372)	17.72 (450)	2.62 (67)	2	7/8 x 6-1/2 (M22 x 65)	25.1 (10.9)

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4. INSTALLATION

Be sure that all pipes and fittings used with this coupling are standard sizes and not metric. Refer to the following VGS® Technical Data Sheets for detailed installation instructions:

- Grooved Coupling Installation Guide (Form No. F_031114)
- Pipe End Preparation Guide (Form No. F_031214)
- Rubber Gasket Installation Guide (Form No. F_031014)

Table 2: V-Z05 (Rigid) and V-7705 (Flexible) VGS Coupling Gaskets

Compound	Grade	Color Code	Recommended Services	Maximum Temp. Range
EPDM	E	Green Stripe* Purple Stripe** Green and Purple Stripe***	Good for cold & hot water up to +230°F(+110°C). Also good for services for water with acid, water with chlorine, deionized water, seawater and waste water, dilute acids, oil-free air, and many chemicals. Not Recommended for petroleum oils, mineral oils, solvents, and aromatic hydrocarbons.	-30°F(-34°C) to +230°F(+110°C)
*Lubricated **Composition Change, Lubricated ***Additional Color Coding, Lubricated Note: Additional Lubricant is not required.				



Note: All other gasketed products (i.e. reducing coupling, mech tee, etc.) have never been pre-lubricated. These products have always been, and are today, marked with a single green stripe.

Refer to the latest edition of the VGS® Technical Data Sheets.
 For additional information contact Viking Technical Services.

Table 3: Approved Pipe and End Types

V-7705
Schedule 40, Cut Goove - Schedule 40, Roll Groove - Schedule 30, Cut Goove - Schedule 30, Roll Groove - Allied Tube & Conduit, "XL" - Allied Tube & Conduit, "BLT" - Allied Tube & Conduit, "Dyna-Thread" - Wheatland Tube, "Mega-Thread" - Schedule 10, Roll Groove - Allied Tube & Conduit, "Dyna-Flow" - Bullmoose Tube, "EDDY-Flow" - Bullmoose Tube, "EDDYlite" - Wheatland Tube, "Mega-Flow"