



TECHNICAL DATA

**GROOVED COUPLING
MODEL V-Z05 AND V-Z07
STANDARD RIGID
COUPLING**

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

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1. DESCRIPTION

VGS® Model V-Z05 Standard Rigid Couplings are available in sizes 1-1/4" through 8". VGS® Model V-Z07 Standard Rigid Couplings are available in sizes 1-1/4" through 10" with Gap Seal gaskets available for sizes up to 8" under Model V-Z05F. Model V-Z07 is not available with Gap Seal gaskets. Fitting solutions are available in a number of styles and configurations to support a variety of applications. VGS® Standard Rigid 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 most recent VGS® Technical Data can be accessed at <http://www.vikinggroupinc.com>. Scan the code below to visit our Mobile website:

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

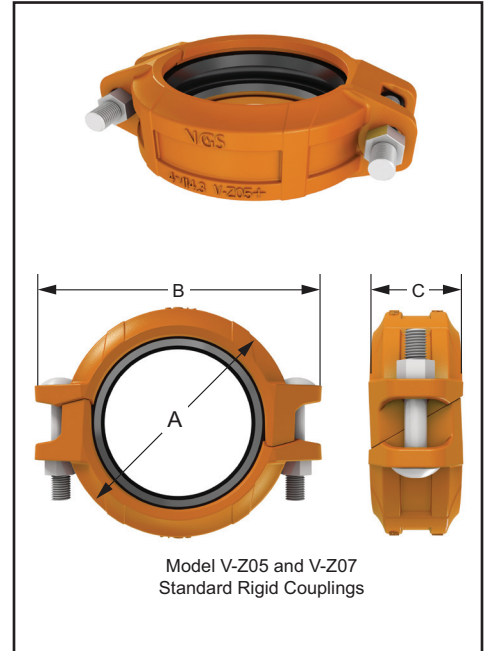



Table 1: V-Z05, V-Z05F, and V-Z07 Sizing Chart

Nominal Size in (mm)	Pipe O.D. in (mm)	Max. Working Pressure PSI (Bar)	Max. End Load Lbs/kN	Axial Displacement	Dimensions			Bolt Size		Weight Lbs/Kg
					A in (mm)	B in (mm)	C in (mm)	No.	in	
V-Z05 and V-Z05F										
1.25 (32)	1.66 (42.2)	300 (21)	649 (2.8)	0 ~ 0.05 (0 ~ 1.2)	2.58 (66)	4 (102)	1.85 (47)	2	3/8 x 2-1/8	1.5 (0.7)
1.5 (40)	1.9 (48.3)	300 (21)	850 (3.66)	0 ~ 0.05 (0 ~ 1.2)	2.83 (72)	4.33 (110)	1.85 (47)	2	3/8 x 2-1/8	1.7 (0.8)
2 (50)	2.375 (60.3)	300 (21)	1330 (5.71)	0 ~ 0.07 (0 ~ 1.7)	3.35 (85)	4.62 (118)	1.89 (48)	2	3/8 x 2-3/4	1.9 (0.9)
2.5 (65)	2.875 (73)	300 (21)	1950 (8.37)	0 ~ 0.07 (0 ~ 1.7)	3.82 (97)	5.24 (133)	1.89 (48)	2	3/8 x 2-3/4	2.1 (0.9)
3 (80)	3.5 (88.9)	300 (21)	2885 (12.41)	0 ~ 0.07 (0 ~ 1.7)	4.49 (114)	5.91 (150)	1.93 (49)	2	3/8 x 2-3/4	2.7 (1.2)
4 (100)	4.5 (114.3)	300 (21)	4771 (24.77)	0 ~ 0.16 (0 ~ 4.1)	5.75 (146)	7.48 (190)	2.17 (55)	2	1/2 x 3	4.3 (2)
5 (125)	5.563 (141.3)	300 (21)	7290 (32.45)	0 ~ 0.16 (0 ~ 4.1)	6.87 (175)	9.11 (232)	2.15 (55)	2	1/2 x 3	5.8 (2.6)
6 (150)	6.625 (168.3)	300 (21)	10340 (46.02)	0 ~ 0.16 (0 ~ 4.1)	7.87 (200)	10.24 (260)	2.17 (55)	2	5/8 x 5-5/16	7 (3.2)
8 (200)	8.625 (219.1)	300 (21)	17525 (78)	0 ~ 0.19 (0 ~ 4.8)	10.28 (261)	12.89 (328)	2.52 (65)	2	5/8 x 5-5/16	13.3 (6)
V-Z07*										
10 254	10.75 273	300 21	27190 123	0 ~ 0.13 0 ~ 3.2	12.99 330	15.59 396	2.5 64	2	7/8 x 6-1/2"	23.5 10.7

*Not available with gap seal

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4. INSTALLATION

Refer to the following VGS® Grooved Coupling Installation Guide (Form No. F_031114), Pipe End Preparation Guide (Form No. F_031214), and Rubber Gasket Installation Guide (Form No. F_031014) for detailed instructions regarding installation. Be sure that all pipes and fittings used with this coupling are standard sizes and not metric.

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-Z05
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" - Wheatland Tube, "GL" - Wheatland Tube. "MLT" - Schedule 10, Roll Groove - Allied Tube & Conduit, "Dyna-Flow" - Bullmoose Tube, "EDDY-Flow" - Bullmoose Tube, "EDDYlite" - Northwest Tube, "EZ-Flow" - Wheatland Tube, "Mega-Flow"
V-Z07
Schedule 40, Cut Goove - Schedule 40, Roll Groove - Schedule 30, Cut Goove - Schedule 30, Roll Groove - Schedule 10, Roll Groove