

High Pressure Coupling with End Guard Gasket Fig. 7004EG



The Gruvlok Fig. 7004EG High Pressure Coupling uses the specially designed “End Guard” gasket for use with “EG” grooved pipe. The “EG” gasket has a center rib which extends between the pipes in order to provide pipe end protection, which makes it ideally suited for internally lined or coated pipe applications.

The Fig. 7004EG High Pressure Coupling permits working pressure ratings up to 2500 psi (172.4 bar).

Working Pressure and End Load values are based on “EG” cut grooved schedule 80 steel pipe. Fig. 7004EG provides a rigid joint and does not allow for expansion or contraction. Beveled end pipe should not be used with “EG” gaskets.

Material Specifications

Bolts

SAE J429, Grade 5, Zinc Electroplated
ISO 898-1, Class 8.8, Zinc Electroplated
followed by a Yellow Chromate Dip

Heavy Hex Nuts

ASTM A563, Grade A, Zinc Electroplated
ISO 898-2, Class 8.8, Zinc Electroplated
followed by a Yellow Chromate Dip

Material Specifications (continued)

Stainless Steel Bolts & Nuts

304SS bolts and nuts are available as a standard option.

(316SS are available for special order).

Housing

Ductile Iron conforming to ASTM A536, Grade 65-45-12.

Coatings

Rust inhibiting paint

Color: Black (standard)

Hot Dipped Zinc Galvanized (optional)

Other Colors Available
(IE: RAL3000 and RAL9000)

For other Coating requirements contact an ASC Engineered Solutions™ Representative.

Gasket Materials

Properties as designated in accordance with ASTM D2000

Grade “T” Nitrile (Orange color code) EG Gasket
-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

“EG” Style

Lubrication

Standard Gruvlok

Gruvlok Xtreme (Do Not use with Grade “L”)

Working Pressure, End Load, Pipe End Separation & Deflection from Center Line

Based on schedule 80 steel pipe with cut or roll grooves in accordance with Gruvlok specifications. See technical data section for design factors.



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

High Pressure Coupling with End Guard Gasket Fig. 7004EG

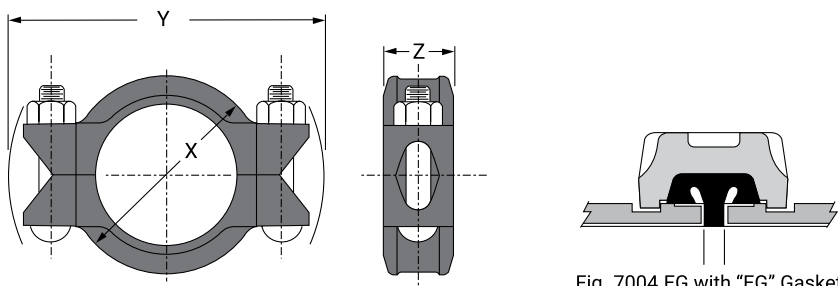


Fig. 7004 EG with "EG" Gasket

Nominal Size	O.D.	Max. Wk. Pressure	Max. End Load	Range of Pipe End Separation	Coupling Dimensions			Coupling Bolts		Approx. Wt. Ea.
					X	Y	Z	Qty.	Size	
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	In./mm	In./mm	In./mm		In./mm	Lbs./kg
2	2.375	2500	11,075	0-1/32	3 5/8	6 1/4	1 7/8	2	5/8 x 2 3/4	4.1
50	60.3	172.4	49.27	0-0.79	92	159	48		—	1.9
2 1/2	2.875	2500	16,230	0-1/32	4 1/4	6 7/8	1 7/8	2	5/8 x 3 1/2	5.1
65	73.0	172.4	72.19	0-0.79	108	175	48		M16 x 85	2.3
3	3.500	2500	24,053	0-1/32	4 7/8	7 1/2	1 7/8	2	5/8 x 3 1/2	5.5
80	88.9	172.4	106.99	0-0.79	124	191	48		M16 x 85	2.5
4	4.500	2500	39,761	0-3/32	6 1/4	9 1/2	2 1/4	2	3/4 x 4 1/2	9.0
100	114.3	172.4	176.86	0-2.38	159	241	57		M20 x 110	4.1
6	6.625	2000	68,943	0-3/32	8 3/4	12 1/8	2 1/4	2	7/8 x 5 1/2	15.5
150	168.3	137.9	306.67	0-2.38	222	308	57		M22 x 150	7.0
8	8.625	1500	87,639	0-3/32	11 1/8	14 7/8	2 5/8	2	1 x 5 1/2	25.6
200	219.1	103.4	389.84	0-2.38	283	378	67		—	11.6
10	10.750	1250	113,453	0-3/32	13 1/2	17	2 5/8	2	1 x 6 1/2	32.3
250	273.1	86.2	504.66	0-2.38	343	432	67		—	14.7
12	12.750	1250	159,595	0-3/32	15 7/8	19 1/4	2 5/8	2	1 x 6 1/2	43.9
300	323.9	86.2	709.92	0-2.38	403	489	67		—	19.9

Notes:

For additional details, see "Coupling Data Chart Notes" in the Introduction Section of the Gruvlok Catalog.

Not for use in copper systems.



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Fig. 7004EG High Pressure Coupling with End Guard Gasket

Figure 7004EG High Pressure Coupling requires specified pipe end groove dimensions and fittings, see Gruvlok® Catalog for groove dimensions.

1 Check & Lubricate Gasket

Check gasket to be sure it is compatible for the intended service. Apply a thin coat of Gruvlok Lubricant to the exterior surface and sealing lips of the gasket. Be careful that foreign particles do not adhere to lubricated surfaces.



2 Gasket & Pipe Installation

Slip the gasket half way on to the pipe end, stop when the center gasket leg comes in contact with the pipe end. Slide the second pipe end half way into the gasket, stopping then the pipe end comes in contact with the center gasket leg. Ensure pipes are aligned properly.



3 Housings

Place each housing halves on the pipe making sure the housing key fits into the groove. Be sure that the tongue and recess portions of the housing mate properly. Insert the bolts and run up the nuts, finger tight.



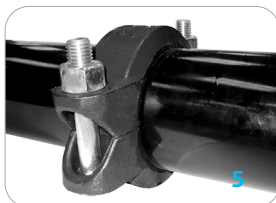
4 Tighten Nuts

Securely tighten nuts alternately and equally until the housings are in firm metal-to-metal contact.



5 Assembly is Complete

Visually inspect the pipe joint to assure the coupling keys are fully engaged in the pipe grooves. Ensure the housings are in firm even metal-to-metal contact on both sides.



CAUTION

Not using the correct groove dimensions may result in pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque

Size	Bolt Size	Torque
In.	In.	Ft.-Lbs
2	$\frac{5}{8}$	100-130
2½	$\frac{5}{8}$	100-130
3	$\frac{5}{8}$	100-130
4	$\frac{3}{4}$	130-180
5	$\frac{7}{8}$	180-220
6	$\frac{7}{8}$	180-220
8	1	200-250
10	1	200-250
12	1	200-250

CAUTION: When using an impact wrench, verify that the output of the impact wrench is within the required torque range. Tool output varies and may require trial runs with the use of a torque wrench for accurate assembly.