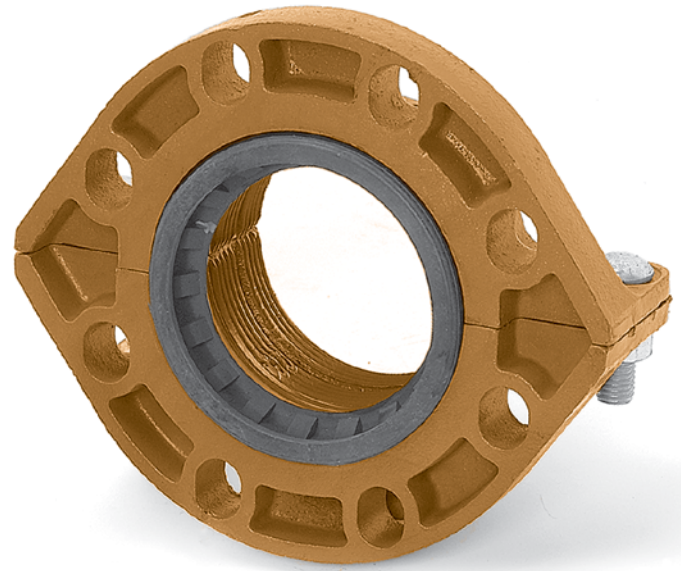


FIG. 7312
HDPE Flange Adapter

The Gruvlok® Figure 7312 forms a cost-effective, easy-to-assemble mechanical joint between HDPE (high density polyethylene) pipe and fittings and ANSI Class 125 or Class 150 piping components without the need for costly fusion equipment. The flanged couplings are designed for wall thickness' SDR 32.5 to 7.3 HDPE pipe and fittings conforming to ASTM D 2447, D 3000, D 3035, or F 174. Each coupling uses two bolts to drive the sharply machined housing teeth into the outside of the pipe. The teeth are arranged in two banks, each bank consisting of at least three rows of spiral teeth that effectively grip the pipe, providing a secure mechanical joint with pressure capabilities exceeding that of the HDPE pipe itself. The banks of teeth are positioned away from the gasket, enhancing the sealing ability of the gaskets throughout the entire operating temperature range.



MATERIAL SPECIFICATIONS

HOUSING:

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

COATING:

Rust inhibiting paint – Color: Orange
 Other Colors Available (IE: RAL3000 and RAL9000)
 For other Coating requirements contact an Anvil Representative.

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated, carbon steel oval-neck track bolts conforming to ASTM A 183. Zinc electroplated heavy hex nuts of carbon steel conforming to ASTM A 563 Grade A or Grade B, or J995 Grade 2.

GASKETS: Properties in accordance with ASTM D 2000

Grade E EPDM (Green color code)

Service Temperature Range: -30°F to 230°F (-34°C to 110°C).
 Recommended for water service, dilute acids, alkaline solutions, oil free air and many chemical services.
 NOT FOR USE IN PETROLEUM APPLICATIONS.

Grade T Nitrile (Orange color code)

Service Temperature Range: -20°F to 180°F (-29°C to 82°C).
 Recommended for petroleum applications, air with oil vapor, vegetable and mineral oils.
 NOT FOR USE WITH HOT WATER OR HOT AIR.

For specific chemical applications, reference the Gruvlok Gasket Recommendations section of the Gruvlok catalog.

WARNING:

1. Gruvlok products for HDPE pipe must be installed using Gruvlok Xtreme™ Temperature Lubricant.
2. The gasket temperature rating may exceed the manufacturer temperature rating for the HDPE pipe. Consult the HDPE pipe manufacturer for the temperature and pressure ratings.

Introduction
 Couplings
 Outlets
 Fittings
 Valves & Accessories
 High Pressure
 CTS Copper System
 Di-Electric Nipples
 Plain-End Fittings
 HDPE Couplings
 Sock-It® Fittings
 Stainless Steel Method
 Roll Groovers
 Installation & Assembly
 Special Coatings
 Design Services
 Technical Data
 Master Format 3 Part Specs.
 Pictorial Index

FIG. 7312

HDPE Flange Adapter

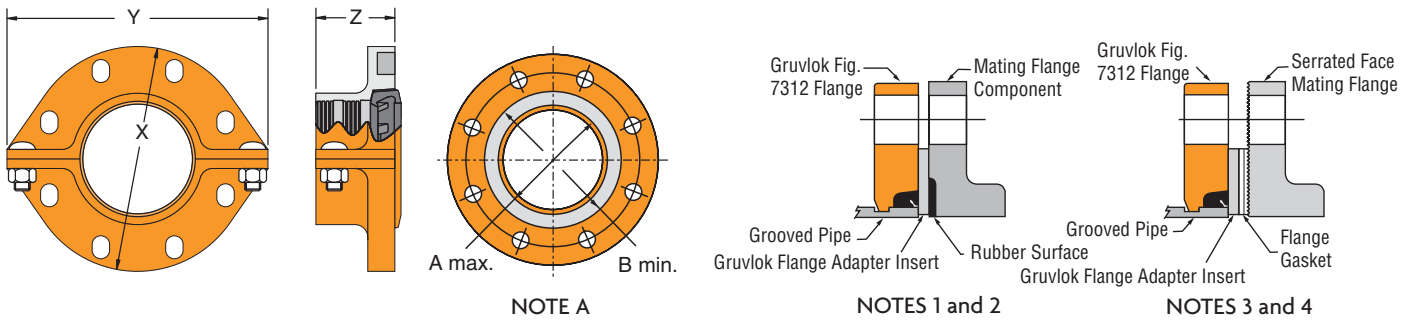


FIGURE 7312 HDPE FLANGE ADAPTER

Nominal Size	O.D.	Flange Dimensions			Sealing Surface		Latch Bolt		Mating Flange Bolts		Approx. Wt. Ea.
		X	Y	Z	A Max.	B Min.	Qty.	Size	Qty.	Size	
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	Lbs./Kg
4 100	4.500 114.3	9 229	10 ³ / ₈ 264	3 ¹ / ₈ 79	4 ¹ / ₂ 114	5 ³ / ₄ 146	2	5/8 x 1 ⁵ / ₈	8	5/8 x 3	15 6.8
6 150	6.625 168.3	11 ¹ / ₄ 286	12 ³ / ₈ 314	3 ³ / ₈ 98	6 ³ / ₈ 168	7 ³ / ₄ 197	2	5/8 x 2 ³ / ₈	8	3/4 x 3 ¹ / ₂	22 10.0
8 200	8.625 219.1	13 ¹ / ₂ 343	14 ⁷ / ₈ 378	3 ¹ / ₂ 89	8 ³ / ₈ 219	10 ¹ / ₄ 260	2	3/4 x 2 ³ / ₄	8	3/4 x 3 ¹ / ₂	26 12.7

- A. The sealing surfaces A Max. to B Min. of the mating flange must be free from gouges, undulations and deformities of any type to ensure proper sealing of gasket.
- B. Gruklok Flanges are to be assembled on butterfly valves so as not to interfere with actuator or handle operation.
- C. Do not use Gruklok Flanges within 90 degrees of one another on standard fittings because the outside dimensions may cause interference.
- D. Gruklok Flanges should not be used as anchor points for tierods across non-restrained joints.
- E. Fig. 7312 Gruklok Flange sealing gaskets require a hard flat surface for adequate sealing. The use of a Gruklok Flange Adapter Insert is required for applications against rubber faced valves or other equipment. The Gruklok Flange Adapter Insert is installed between the Gruklok Flange sealing gasket and the mating flange or surface to provide a good sealing surface area.
- F. Gruklok Flanges are not recommended for use against formed rubber flanges.

HDPE PIPE DIMENSIONAL SPECIFICATIONS

Nominal Size	O.D. Actual	Tolerance +/-	Out of Roundness Tolerance +/-	Pipe Wall Thickness						
				SDR 7.3	SDR 9	SDR 11	SDR 15.5	SDR 17	SDR 21	SDR 32.5
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm
4 100	4.500 114.3	0.020 0.51	0.040 1.02	0.616 15.6	0.500 12.7	0.409 10.4	0.290 7.4	0.265 6.7	0.214 5.4	0.138 3.5
6 150	6.625 168.3	0.030 0.76	0.050 1.27	0.908 23.1	0.736 18.7	0.602 15.3	0.427 10.8	0.327 8.3	0.265 6.7	0.204 5.2
8 200	8.625 219.1	0.039 0.99	0.075 1.91	1.182 30.0	0.958 24.3	0.784 19.9	0.556 14.1	0.507 12.9	0.340 8.6	0.265 6.7

1. Per ASTM F 714
2. Per ASTM D 2447 and D 3035
See Installation & Assembly directions on page 188.

APPLICATIONS WHICH REQUIRE A GRUVLOK® FLANGE ADAPTER INSERT:

- When mating to a wafer valve (lug valve), if the valve is rubber faced in the area designated by the sealing surface dimensions (A Max. to B Min.), place the Gruklok Flange Adapter Insert between the valve and the Gruklok Flange.
- When mating to a rubber-faced metal flange, the Gruklok Flange Adapter Insert is placed between the Gruklok Flange and the rubber-faced flange.
- When mating to a serrated flange surface, a standard fullfaced flange gasket is installed against the serrated flange face, and the Gruklok Flange Adapter Insert is placed between the Gruklok Flange and the standard flange gasket.
- When mating to valves or other component equipment where the flange face has an insert, use procedure described in note 3.