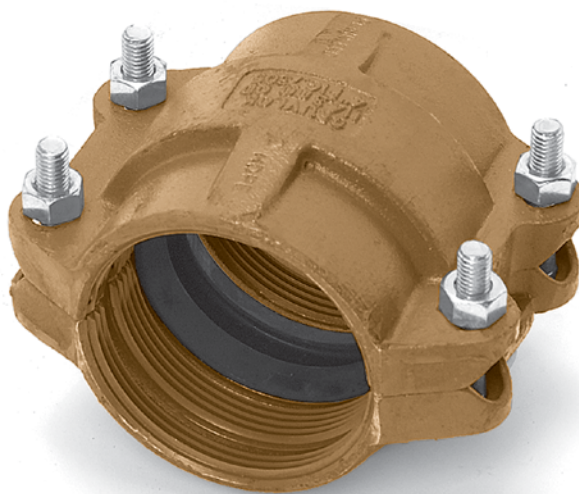


FIG. 7305

HDPE Coupling

The Gruvlok Figure 7305 couplings are designed for mechanically joining HDPE (high density polyethylene) pipe and fittings. Each coupling uses four 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 which 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 gasket throughout its operating temperature range.

The Figure 7305 features a low profile contoured housing with a ramp along the outside diameter allowing the coupling to glide over most obstacles, while long lengths of the pipeline are being relocated. This cost effective easy to assemble mechanical joint is used to join SDR 32.5 to 7.3 wall thickness HDPE pipe conforming to ASTM D 2447, D 3000, D 3035, or F 714 and eliminates the need for costly fusion equipment.



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 carbon steel heavy hex nuts 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.

| PROJECT INFORMATION | | APPROVAL STAMP | |
|---------------------|--|--|--|
| Project: | | <input type="checkbox"/> Approved | |
| Address: | | <input type="checkbox"/> Approved as noted | |
| Contractor: | | <input type="checkbox"/> Not approved | |
| Engineer: | | Remarks: | |
| Submittal Date: | | | |
| Notes 1: | | | |
| Notes 2: | | | |

FIG. 7305

HDPE Coupling

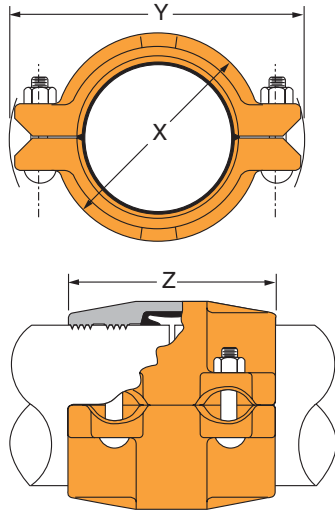


FIGURE 7305 HDPE COUPLING

| Nominal Size | O.D. | Coupling Dimensions | | | Coupling Bolts | | Approx. Wt. Ea. |
|--------------|-----------------|---------------------------------------|---------------------------------------|--------------------------------------|----------------|--|-----------------|
| | | X | Y | Z | Qty. | Size | |
| In./DN(mm) | In./mm | In./mm | In./mm | In./mm | | In. | Lbs./Kg |
| 2 50 | 2.375 60.3 | 3 ³ / ₈ 86 | 5 ¹ / ₂ 140 | 4 ⁵ / ₈ 117 | 4 | 1/2 x 2 ³ / ₈ - | 4.5 2.0 |
| 3 80 | 3.500 88.9 | 4 ⁵ / ₈ 117 | 6 ³ / ₄ 171 | 4 ⁵ / ₈ 117 | 4 | 1/2 x 3 - | 8.5 3.9 |
| 4 100 | 4.500 114.3 | 5 ¹ / ₄ 133 | 8 203 | 5 ³ / ₄ 146 | 4 | 1/2 x 3 - | 12 5.4 |
| 6 150 | 6.625 168.3 | 7 ¹ / ₂ 191 | 11 279 | 5 ⁷ / ₈ 149 | 4 | 5/8 x 3 ¹ / ₂ - | 18 8.2 |
| 8 200 | 8.625 219.1 | 10 254 | 13 ¹ / ₄ 337 | 6 152 | 4 | 5/8 x 3 ¹ / ₂ - | 30 13.6 |
| 10 250 | 10.750 273.1 | 12 305 | 15 ³ / ₄ 400 | 6 ¹ / ₂ 165 | 4 | 3/4 x 4 ³ / ₄ - | 43 19.5 |
| 12 300 | 12.750 323.9 | 14 ³ / ₈ 365 | 17 ⁷ / ₈ 454 | 7 ¹ / ₄ 184 | 4 | 3/4 x 4 ³ / ₄ - | 58 26.3 |

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 |
| 2 50 | 2.375 60.3 | 0.006 0.15 | 0.035 0.89 | 0.325 8.3 | 0.264 6.7 | 0.216 5.5 | 0.153 3.9 | 0.140 3.6 | 0.113 2.9 | - |
| 3 80 | 3.500 88.9 | 0.016 0.41 | 0.040 1.02 | 0.479 12.2 | 0.389 9.9 | 0.318 8.1 | 0.226 5.7 | 0.206 5.2 | 0.167 4.2 | 0.108 2.7 |
| 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 |
| 10 250 | 10.750 273.1 | 0.048 1.22 | 0.075 1.91 | 1.473 37.4 | 1.194 30.3 | 0.977 24.8 | 0.694 17.6 | 0.632 16.1 | 0.512 13.0 | 0.331 8.4 |
| 12 300 | 12.750 323.9 | 0.057 1.45 | 0.075 1.91 | 1.747 44.4 | 1.417 36.0 | 1.159 29.4 | 0.823 20.9 | 0.750 19.1 | 0.607 15.4 | 0.392 10.0 |

1. Per ASTM F 714

2. Per ASTM D 2447 and D 3035

See Installation & Assembly directions on page 170.