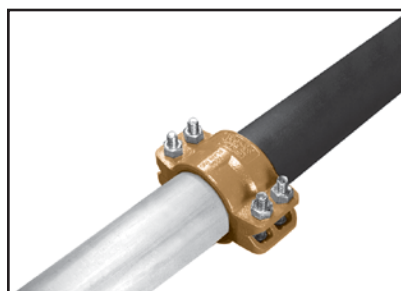


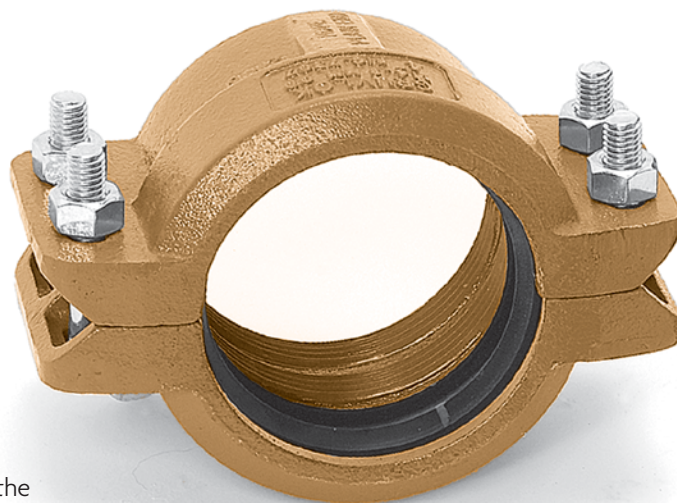
## FIG. 7307

### HDPE Transition Coupling

The Gruklok Figure 7307 HDPE transition coupling allows for transition from HDPE pipe or fittings to grooved-end pipe prepared per Gruklok standard cut or roll groove specifications for steel pipe or Gruklok fittings. The Figure 7307 incorporates two banks of machined teeth on one side of the housing, and a key section on the other, that engages specifically grooved steel pipe or fittings. The banks of teeth are positioned away from the gasket enhancing the sealing ability of the gasket. The temperature and pressure capabilities of the Figure 7307 exceed the highest temperature and pressure ratings of the HDPE pipe.



The Figure 7307 features a low profile contoured housing with a ramp along the outside diameter on the half of the HDPE coupling. This easy to assemble mechanical joint is used to join HDPE pipe (conforming to ASTM D 2447, D 3000, D 3035, or F 714) to roll grooved or cut grooved standard weight and, roll grooved lightweight pipe, as well as with grooved-end fittings and valves. The coupling can be used with HDPE pipe having SDR values of 7.3 to 32.5.



## 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 Gruklok Gasket Recommendations section of the Gruklok catalog.

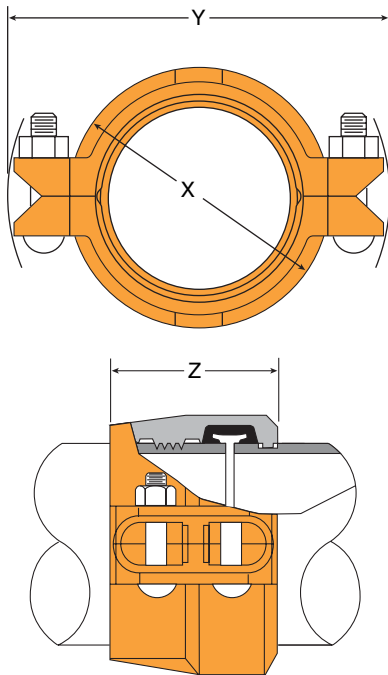
### WARNING:

1. Gruklok products for HDPE pipe must be installed using Gruklok 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. 7307

### HDPE Transition Coupling



**FIGURE 7307 HDPE TRANSITION COUPLING**

| Nominal Size | O.D. Actual | Coupling Dimensions            |                                |                               | Coupling Bolts |                                     | Approx. Wt. Ea. |
|--------------|-------------|--------------------------------|--------------------------------|-------------------------------|----------------|-------------------------------------|-----------------|
|              |             | X                              | Y                              | Z                             | Qty.           | Size                                |                 |
| In./DN(mm)   | In./mm      | In./mm                         | In./mm                         | In./mm                        |                | In./mm                              | Lbs./Kg         |
| 2            | 2.375       | 3 <sup>3</sup> / <sub>8</sub>  | 6                              | 3 <sup>1</sup> / <sub>8</sub> | 4              | 1/2 x 2 <sup>3</sup> / <sub>8</sub> | 4.5             |
| 50           | 60.3        | 86                             | 152                            | 79                            |                | -                                   | 2.0             |
| 3            | 3.500       | 4 <sup>1</sup> / <sub>2</sub>  | 7 <sup>1</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>8</sub> | 4              | 1/2 x 3                             | 6               |
| 80           | 88.9        | 114                            | 181                            | 79                            |                | -                                   | 2.7             |
| 4            | 4.500       | 5 <sup>3</sup> / <sub>4</sub>  | 8 <sup>1</sup> / <sub>2</sub>  | 3 <sup>3</sup> / <sub>4</sub> | 4              | 1/2 x 3                             | 8.5             |
| 100          | 114.3       | 146                            | 216                            | 95                            |                | -                                   | 3.9             |
| 6            | 6.625       | 8                              | 11 <sup>1</sup> / <sub>4</sub> | 3 <sup>3</sup> / <sub>4</sub> | 4              | 5/8 x 3 <sup>1</sup> / <sub>2</sub> | 12.5            |
| 150          | 168.3       | 203                            | 286                            | 95                            |                | -                                   | 5.7             |
| 8            | 8.625       | 10 <sup>1</sup> / <sub>2</sub> | 13 <sup>3</sup> / <sub>8</sub> | 4 <sup>1</sup> / <sub>4</sub> | 4              | 5/8 x 3 <sup>1</sup> / <sub>2</sub> | 20.5            |
| 200          | 219.1       | 267                            | 346                            | 108                           |                | -                                   | 9.3             |
| 10           | 10.750      | 12 <sup>5</sup> / <sub>8</sub> | 17                             | 5                             | 4              | 7/8 x 5 <sup>1</sup> / <sub>2</sub> | 34.5            |
| 250          | 273.1       | 321                            | 432                            | 127                           |                | -                                   | 15.6            |
| 12           | 12.750      | 14 <sup>3</sup> / <sub>4</sub> | 19 <sup>1</sup> / <sub>2</sub> | 5                             | 4              | 7/8 x 5 <sup>1</sup> / <sub>2</sub> | 42.5            |
| 300          | 323.9       | 375                            | 495                            | 127                           |                | -                                   | 19.3            |

**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            | 2.375       | 0.006         | 0.035                          | 0.325               | 0.264  | 0.216  | 0.153    | 0.140  | 0.113  | -        |
| 50           | 60.3        | 0.15          | 0.89                           | 8.3                 | 6.7    | 5.5    | 3.9      | 3.6    | 2.9    |          |
| 3            | 3.500       | 0.016         | 0.040                          | 0.479               | 0.389  | 0.318  | 0.226    | 0.206  | 0.167  | 0.108    |
| 80           | 88.9        | 0.41          | 1.02                           | 12.2                | 9.9    | 8.1    | 5.7      | 5.2    | 4.2    | 2.7      |
| 4            | 4.500       | 0.020         | 0.040                          | 0.616               | 0.500  | 0.409  | 0.290    | 0.265  | 0.214  | 0.138    |
| 100          | 114.3       | 0.51          | 1.02                           | 15.6                | 12.7   | 10.4   | 7.4      | 6.7    | 5.4    | 3.5      |
| 6            | 6.625       | 0.030         | 0.050                          | 0.908               | 0.736  | 0.602  | 0.427    | 0.327  | 0.265  | 0.204    |
| 150          | 168.3       | 0.76          | 1.27                           | 23.1                | 18.7   | 15.3   | 10.8     | 8.3    | 6.7    | 5.2      |
| 8            | 8.625       | 0.039         | 0.075                          | 1.182               | 0.958  | 0.784  | 0.556    | 0.507  | 0.340  | 0.265    |
| 200          | 219.1       | 0.99          | 1.91                           | 30.0                | 24.3   | 19.9   | 14.1     | 12.9   | 8.6    | 6.7      |
| 10           | 10.750      | 0.048         | 0.075                          | 1.473               | 1.194  | 0.977  | 0.694    | 0.632  | 0.512  | 0.331    |
| 250          | 273.1       | 1.22          | 1.91                           | 37.4                | 30.3   | 24.8   | 17.6     | 16.1   | 13.0   | 8.4      |
| 12           | 12.750      | 0.057         | 0.075                          | 1.747               | 1.417  | 1.159  | 0.823    | 0.750  | 0.607  | 0.392    |
| 300          | 323.9       | 1.45          | 1.91                           | 44.4                | 36.0   | 29.4   | 20.9     | 19.1   | 15.4   | 10.0     |

1. Per ASTM F 714
2. Per ASTM D 2447 and D 3035
3. For steel pipe requirements refer to Gruvlok Groove Specifications for steel pipe. See Installation & Assembly directions on page 171.