

## HDPE Series

**Shurjoint** offers a series **HDPE** couplings and adapters for joining HDPE pipe. The use of HDPE (high density polyethylene) pipe continues to grow in popularity as it's benefits over traditional materials are realized in a variety of service applications. The features of HDPE pipe include a long service life, flexibility, light in weight, increased resistance to corrosion and chemicals, fatigue and superior flow characteristics. HDPE is now commonly used in service applications including municipal water and waste water, water distribution and transport, mining, slurry and many other general and industrial applications.



**Shurjoint** HDPE couplings provide a fast and easy way to mechanically join HDPE pipe. A series of sharply machined teeth securely grip the pipe as the bolts are tightened, resulting in a leak-free joint. The **Shurjoint** joining method eliminates the need for costly heat fusion equipment. The highly restrained joint allows long lengths of pipe to be pulled from one area to another. With the removal of a few bolts one can easily access the system for cleaning, maintenance, changes and or system expansion.

**Shurjoint** HDPE couplings are designed to join IPS HDPE pipe, DR32.5 to 7.3, conforming to ASTM D2513, D3350 and or ANSI/AWWA C901 and ISO HDPE pipe, SDR 9 to 26, conforming to ISO 4427-1/2.

As the ductile iron coupling is much stronger than HDPE pipe itself, pressure ratings of HDPE couplings are determined by the pressure rating of HDPE pipe used. Pressure ratings of HDPE pipe vary depending on DR or SDR (standard dimension ratio) and design stress of the material.

### Pressure Ratings (psi) - IPS Size

Pipe Dimension Ratio (DR)	PE4710 PE100	PE3608 PE3408
DR 7.3	317	265
DR 9	250	200
DR 11	200	160
DR 13.5	160	130
DR 17	125	100
DR 21	100	80
DR 26	80	65
DR 32.5	63	50

Design stress: PE4710 1000 psi, PE3608 & 3408 800 psi

$$\text{DR (Pipe Dimension Ratio)} \quad \text{DR} = \frac{D}{t}$$

Where:

D = pipe outside diameter, in  
t = pipe minimum wall thickness, in

### Pressure Ratings (Bar) - ISO Size

Pipe Dimension Ratio (SDR)	PE100	PE80
SDR 9	20	16
SDR 11	16	10
SDR 17	10	6.3
SDR 26	6.3	4

Design Stress: PE100 8.0 MPa, PE80 5.0 MPa

$$\text{SDR (Standard Dimension Ratio)} \quad \text{SDR} = \frac{D}{t}$$

Where:

D = pipe outside diameter, mm  
t = pipe minimum wall thickness, mm

## How to install



### Marking:

Use a marker and measuring tape to place marks on each pipe end per the installation instructions.



### Gasket Mounting

Place a gasket over the pipe ends and center the gasket in between the marks. The pipe ends must always be butted against each other.



### Housing Mounting

Lubricate the gasket and or housings and place the housings over gasket and insert bolts. Install nuts finger tight.



### Nut Tightening

Tighten the nuts alternatively until the housing bolt pads meet metal to metal.



Refer to the **Shurjoint** installation instruction manual for complete instructions. **Shurjoint** HDPE couplings are not intended for use on PVC, PP or other materials. Do not use standard soap based lubricant on HDPE pipe. Shurjoint recommends the use of a silicone based lubricant with the HDPE series.