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Part Name: Poly-Cam PE Socket U-Bend

Part Number: 734-xxxx

Design

The Poly-Cam HDPE Socket U-Bend is manufactured from HDPE. Its designed with a socket end fusion for ease of field installation. The design also allows a less restricted flow as fluid travels through the fitting.

- Sizes range from 1" Iron Pipe Size with a 4" -4.5" center to the center line 180 degree bend.

System Performance

The transition fitting is designed to handle 200 PSI with a 2:1 safety factor at 73.40 degrees Fahrenheit with a minimum 50-year design life.

Quality Assurance

The transition fitting shall be manufactured by Poly-Cam, Inc. Poly-Cam, Inc. shall provide quality assurance with regards to proper installation, compatibility, performance, and acceptance. The transition joint meets or exceeds the requirements of:

- ASTM 1598 and ASTM 1599
- Meets ASTM D2683
- All fittings meet ARRA requirements.

Installation

HDPE pipe end: Install transition fitting to comply with the pipe manufacturer's recommended procedures. All field welds shall be completed per Plastic Pipe Institute's welding procedure for butt fusion.

Material

High-Density Polyethylene: HDPE pipe

- Meets ASTM D-3350 with minimum cell classification values of 345464C (PE 3408), PE445574C (PE 4710)
- Meets ASTM F714.
- Density shall be no less than 0.955 g/cm as referenced in ASTM D1505
- Melt index no greater than 0.15 g/10 minutes when tested per ASTM D 1238
- Tensile Strength at Yield -tensile shall be 3,200 psi to less than 3,500 psi as referenced in ASTM D638
- ESCR-Environmental Stress Crack Resistance shall be over 5,000 hours with zero failures when tested per ASTM D 1693-Condition C
- All pipe meets ASTM 3035.
- All certifications will be submitted upon request.

Warranty

The warranty period is one year after the date of substantial completion of installation.

Series 734 Poly-Cam PE Socket U-Bend

Nominal Size (In.)	Poly-Cam U-Bend Material	Socket Inside Diameter A	Coupling Length B	Coupling Center Line C
1	Polyethylene PE 3408/4710	1.31	7.7	4.0-4.5

