Poly-Cam, Inc.
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Submittal Sheet

Part Name: Epoxy Coated Cut Groove/ HDPE Transition Fitting
Part Number: 701-xxxx/CS/XX

Fitting Description

General – The transition fitting consists of a two piece construction, manufactured of carbon steel pipe and high density polyethylene (HDPE) pipe. The two materials are joined together by hydraulically pressing the HDPE pipe into the steel sleeve. The carbon steel sleeve portion of the transition fitting is machined with our multi-level patented barb system that provides a leak free radial compressed joint. The high density polyethylene portion of the transition fitting is cut to a specific length and is pressed into the carbon steel sleeve. The HDPE pipe extends through the entire length of the steel sleeve terminating at end of the carbon steel sleeve.

Dimensions

See Poly-Cam, Inc. product dimension sheet provided separately.

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. Transition joint meets or exceeds the requirements of ASTM D2513 Category 3.

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.

Warranty

Warranty period is one year after date of substantial completion of installation.

Materials Specifications

Grooved Carbon Steel Sleeve – Carbon Steel pipe conforming to ASTM A53 Grade B ERW schedule 40 steel pipe.

High Density Polyethylene – HDPE pipe conforming to ASTM D-3350 with minimum cell classification values of 345464C, and shall conform to ASTM F714. Density shall be no less than 0.955 gms/ccm as referenced in ASTM D1505, with melt index no greater than 0.15 gms/10 minutes when tested in accordance with ASTM D 1238. Tensile Strength at yield –tensile shall be 3,200 to less than 3,500 psi as referenced in ASTM D638, and ESCR-Environmetal Stress Crack Resistance shall be in excess of 5,000 hours with zero failures when tested in accordance with ASTM D 1693-Condition C.

Grooved Steel Sleeve Coating – The carbon steel sleeve shall be coated with a fusion bonded epoxy. This coating is manufactured by H. B. Fuller and the product name is IF1947T Red Iron Oxide. The epoxy shall be installed by a electrostatic spray application. (See technical data sheet)

Installation

HDPE pipe end

Install transition fitting so as to comply with the pipe manufacturer's recommended procedures. All field welds shall be accomplished in accordance with Plastic Pipe Insitute's welding procedure for butt fusion.

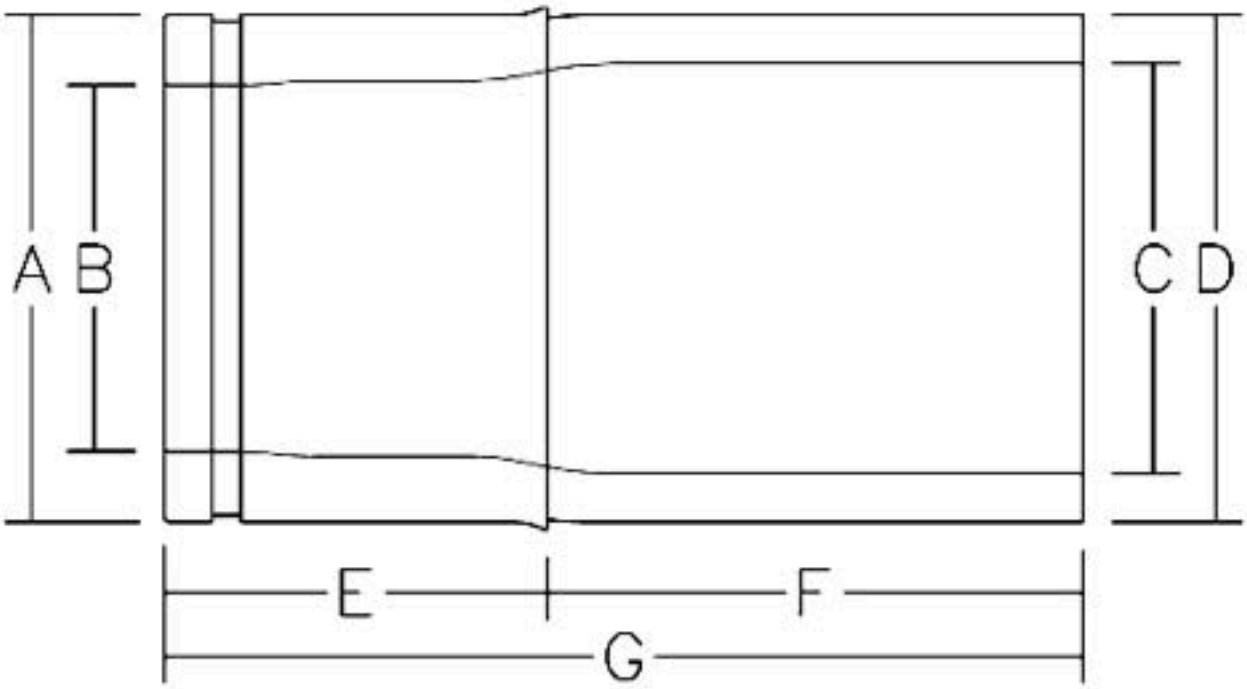
Grooved pipe end

Install grooved coupling so as to comply with the manufacturer's instructions.

Series 701
Transition with Cut Groove

SDR 7 | SDR 9 | **SDR 11** | SDR 17

NOMINAL SIZE INCHES	Coupling O.D. "A"	Pressed SDR11 PE Pipe I.D. "B"	Exposed SDR11 PE Pipe I.D. "C"	Exposed PE Pipe O.D. "D"	Coupling Length "E"	Exposed PE Pipe Length "F"	Total Length "G"
1	1.315	~0.84	1.051	1.315	2	6	8
1.25	1.66	~1.06	1.34	1.66	2.6	5.4	8
1.5	1.9	~1.28	1.533	1.9	2.6	5.4	8
2	2.375	~1.64	1.917	2.375	3	5	8
3	3.5	~2.42	2.826	3.5	4	4	8
4	4.5	~3.23	3.633	4.5	4	4	12
5	5.563	~4.0	4.49	5.563	5	7	12
6	6.625	~4.8	5.349	6.625	5	8	13
8	8.625	~6.3	6.963	8.625	7	8	15
10	10.75	~7.9	8.679	10.75	8	8	16
12	12.75	~9.5	10.293	12.75	9	9	18
14	14	~10.4	11.301	14	9	11	20
16	16	~11.9	12.915	16	10	12	22
18	18	~13.5	14.532	18	14	22	36
20	20	~15.1	16.146	20	16	20	36
24	24	~18.4	19.374	24	18	18	36



Fully pressure rated • Standard SDR sizes 7,9,11,17
Manufactured to D1599, D1598, D3350