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Part Name: Female thread HDPE Transition Fitting
Series 712 Carbon Steel, Aluminum Bronze, T304, T316, Stainless Steel

Threaded Transitions

The POLY-CAM Threaded Transition Adaptors is a multi-level mechanical transition fitting, protected under patent number 5,211,429, which is hydraulically compressed unto the polyethylene or pipe quality copolymer material.

Design

The relaxation creates a seal to prevent leakage. Under pressure, the internal pressure within the pipe increase the sealing surface area on the barb. Under zero internal pressure, the compression strain and tensional strain created by the compression of the multi-level barbs is greater then the stress created by relaxation and/or thermo expansion and contraction. As the internal pressure increases the joining of the polyethylene or copolymer and the coupling increases.

Sizes range from .5" to 8" NPT. All National Pipe Threads are made to ANSI/ASME B1.20-1983 R 1992.

System Performance

The transition fitting is designed to handle the pressure rating of the HDPE pipe 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. Transition joint meets or exceeds the requirements of ASTM D2513 Category 3. Upon request Poly-cam can install a stainless steel insert to meet ASTM 2513 Category 1. All Fittings meet ARRA requirements.

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 Institute's welding procedure for butt fusion.

Steel Fitting: The entrance of the coupling is tapered at the beginning. The Polyethylene or copolymer material is cold pressed into the coupling. This allows the material to relax into the patented multi-level barb system.

Material

The POLY-CAM Threaded Transition is manufactured of Carbon Steel (A53 or A106 grade), C954 grade Aluminum Bronze (Lead Free material this complies with California AB1953, SB1334 and SB1935), Type 304 or Type 316 (ASTM A249 or ASTM A269) and or ERW pipe (ASTM SA-312) and incorporated with the transition manufactured of HDPE (cell class 345454c) or pipe quality Copolymer material. (pe3408, pe3608 and pe4710). All pipe meets ASTM 3035 and ASTM 714. All certification will be submitted upon request.

The **epoxy coating** (IF 194T Red Iron Oxide) is fusion bonded to the metal. It has approvals NSF 61, FDA 175.300, AWWA C116-01, C213-01, UL 262 and FM 1120/1130

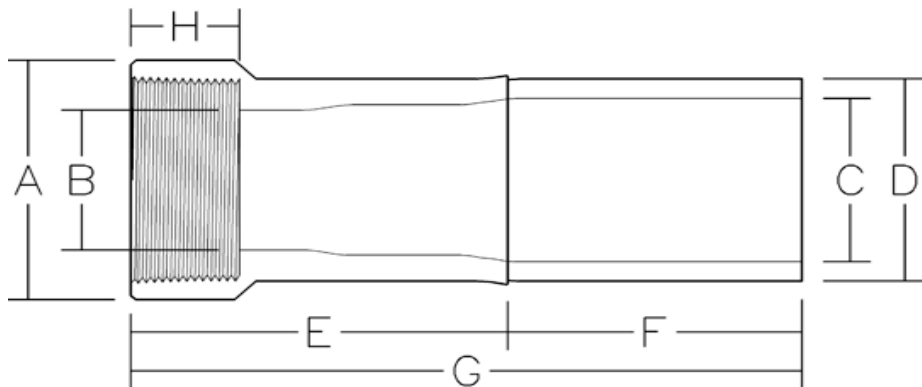
Warranty

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

Series 712
Transition with
Female NPT



Nominal Size	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"	Overall Length "G"	Thread Length "H"
1	0.99	~0.625	0.667	0.84	2.4	1.6	4	0.5
1.25	1.24	~0.79	0.839	1.05	2.2	1.8	4	0.7
1	1.485	~0.97	1.051	1.315	2.6	2	4.6	0.91
1.25	1.9	~1.24	1.34	1.66	3.4	2.6	6	0.89
1.5	2.25	~1.42	1.533	1.9	3.4	3	6.4	0.85
2	2.75	~1.76	1.917	2.375	3.4	4	7.4	1
2.5	3.384	~1.99	2.321	2.875	4.036	4.964	9	1.464
3	4.144	~2.42	2.826	3.5	4.384	5.616	10	1.616
4	5.16	~3.23	3.633	4.5	4.624	5.876	10.5	1.876
5	6.26	~4.0	4.49	5.563	6.25	6.75	13	1.75
6	7.39	~4.8	5.349	6.625	7.125	6.875	14	1.875
8	9.65	~6.3	6.963	8.625	7.57	9.43	17	2.5



Fully pressure rated • Standard SDR sizes 7,9,11,17 • Metric sizing available
 Manufactured to D3035, D1599, D1598, ASTM D3350
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