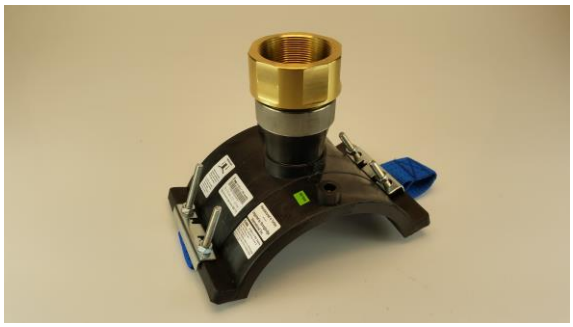
1101 McKinley Street
Anoka, MN 55303
Phone (763) 786-6682
Fax (763) 786-2167
www.polycam.com



Part Name: Electrofusion Tapping Saddle with NPT Thread
Part Number: 576-xxxx

Electrofusion Branch Saddle with NPT Thread

The transition fitting consists of a two-piece construction. The electrofusion branch saddle and the fitting are joined together by hydraulically pressing the fitting into the HDPE electrofusion branch saddle and reinforcing it with a steel compression ring. The steel fitting portion of the transition fitting is machined with a multi-level barb system that provides a leak-free radial compressed joint. The low-profile, heavy-duty design allows the corporation stop a secure connection to the outside wall of the HDPE pipe.

Design

Relaxation of the pipe creates a seal to prevent leakage. Under pressure, the internal pressure within the pipe increases the sealing surface area on the barb. Under zero internal pressure, the compression and tensional strain created by the compression of the multi-level barbs are greater than the stress created by relaxation and/or thermal expansion and contraction. As the internal pressure increases, the connection between the pipe material and transition fitting increases.

- Outlet size ranges from 0.5″ to 2″ NPT Threads.

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. The transition joint meets or exceeds the requirements of:

- ASTM 1598 and ASTM 1599
- All Fittings meet ARRA requirements.

Installation

Electrofusion Branch Saddle: Use the electrofusion manufacturer's guidelines to install the fitting on the main pipe. Saddle comes with straps for proper installation.

Threaded Fitting: When installing the transition fitting:

- Always use pipe joint sealant or Teflon tape.
- Always use strap wrenches**.**
- **Do not use a pipe wrench.**
- **Always use 2 wrenches when connecting.**
- **Over tightening may cause ovality or damage.**
- **Always pressure test for leaks before backfilling.**
- Backfill and compact carefully around transition and service line to prevent ground shifts which could damage the valve and/or transition fitting.

Material

Threaded Fitting:

- Type 304, or Type 316 (ASTM A249 or ASTM A269), or C954 grade Aluminum Bronze (lead-free 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 576 Electrofusion Branch Saddle with NPT Thread

Nominal Main Size (In.)	Poly-Cam Thread Material	Female NPT Thread Outlet **A**	Outlet to Main Length **B**	IPS Radius **R**	DIPS Radius **R2**
2	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	2.375	NA
3	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	3.5	NA
4	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	4.5	4.8
6	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	6.625	6.9
8	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	8.625	9.05
10	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	10.75	11.1
12	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	12.75	13.2
14	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	14	15.3
16	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	16	17.4
18	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	18	19.5
20	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	20	21.6
22	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	22	NA
24	C954 Bronze, Stainless 316, Stainless 304	0.5-2"	4.75	24	25.8