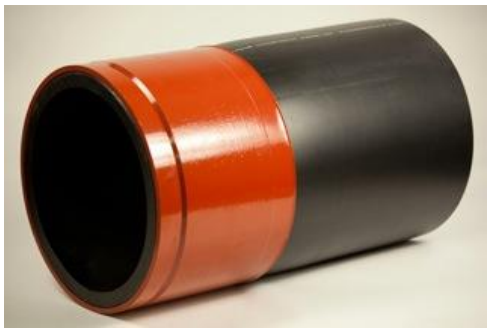
1101 McKinley Street
Anoka, MN 55303
Phone (763) 786-6682
Fax (763) 786-2167
www.polycam.com



Part Name: Victaulic® AGS™ Groove Transition Fitting
Part Number: 702-xxxx

Victaulic® AGS™ Groove Transitions

The Poly-Cam Victaulic® AGS™ Groove Transition is a multi-level mechanical transition fitting. The polyethylene or pipe-quality copolymer material are hydraulically compressed into the transition fitting.

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.

The steel sleeve has a machined AGS™ cut groove manufactured to Victaulic®'s AGS™ Vic-Ring System® groove specifications for steel and other IPS pipe.

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

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

Steel Fitting:

- Manufactured of Carbon Steel (A53 or A106 grade), Type 304, or Type 316 (ASTM A249 or ASTM A269) and or ERW pipe (ASTM SA-312)
- For carbon steel, the **epoxy coating** (IF 194T Red Iron Oxide) is fusion bonded to the metal. Meets NSF 61, FDA 175.300, AWWA C116-01,C213-01, UL 262 and FM 1120/1130

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 702 Transition with Victaulic® AGS™ Adapter Cut Groove

Nominal Size (In.)	Poly-Cam Cut Groove Material	CS/SS Coupling O.D. **A**	CS/SS Coupling Length **B**	HDPE Length **C**	HDPE O.D. **D**
14	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	14	9	24	14
16	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	16	16	28	16
18	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	18	16	28	18
20	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	20	16	28	20
22	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	22	14	28	22
24	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	24	18	36	24
26	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	26	18	36	26
28	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	28	18	36	28
30	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	30	18	36	30
32	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	32	18	36	32
34	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	34	18	36	34
36	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	36	18	36	36
42	Carbon steel, SS 316 , SS 304, SS 303, Epoxy coated	42	30	36	42