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Part Name: ID Controlled MJ Adaptor Transition Fitting
Part Number: 908-xxxx



MJ Adaptor Transitions

The Poly-Cam ID Controlled MJ Adaptor Transition is a double restraint multi-level mechanical transition fitting. This design allows a non-reduction, smooth bore transition between the HDPE and Ductile pipe. The polyethylene or pipe-quality copolymer material are hydraulically compressed into the transition fitting. The HDPE and MJ Adaptor is joined with a compression ring that restrains the HDPE onto the MJ Adaptor.

Design

Relaxation of the pipe creates a seal to prevent leakage.

A MEGALUG®, FIELD LOK®, or TUFGRIP® (Tyler Union) restraint is required to be used with this product. Standard glands will not completely restrain the expansion/contraction of the HDPE. This design allows installer to use standard length bolts instead of the more costly longer bolts. The double-restraint design also eliminates the need for wait-time in order to backfill.

- Sizes range from 3" to 24" in both iron and ductile 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
- Meets ANSI/ AWWA standard C-906

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.

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

Material

Ductile Fitting:

- Manufactured of American-made cast ductile iron.
- The compression rings are manufactured out 304 stainless steel tubing (ASTM A249 or ASTM A269) and or ERW pipe (ASTM SA-312).

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 908 ID Controlled MJ Adapter

Nominal Size (In.)	HDPE Size	Ductile Iron O.D. A	Ductile Iron I.D. B	HDPE I.D. C	HDPE O.D. D	Exposed DI Length E	HDPE Length F	Total Length G
6	8" DIPS DR9	6.9	6.04	6.917	9.05	9	24	33
6	8" IPS DR7	6.9	6.04	6.013	8.625	9	24	33
8	10" DIPS DR9	9.05	8.15	8.486	11.1	9	24	33
10	12" DIPS DR11	11.1	10.16	10.656	13.2	9	24	33
10	12" DIPS DR9	11.1	10.16	10.09	13.2	9	24	33
12	14" DIPS DR11	13.35	12	12.351	15.3	9	24	33
14	16" DIPS DR11	15.3	14.28	14.046	17.4	9	24	33
16	18" DIPS DR13	17.4	16.36	16.439	19.5	9	24	33
18	20" DIPS DR13	19.5	18.44	18.208	21.6	19	24	43
20	22" IPS DR13	21.6	20.52	18.544	22	19	36	55
24	30" DIPS DR11	25.8	24.68	25.833	32	19	36	55

