



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



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.

## **Design**

Relaxation of the pipe creates a seal to prevent leakage.

A MEGALUG® or FIELD LOK® Gasket 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. <b>A</b> | Ductile Iron I.D. <b>B</b> | HDPE I.D. <b>C</b> | HDPE O.D. <b>D</b> | Exposed DI Length <b>E</b> | HDPE Length <b>F</b> | Total Length <b>G</b> |
|--------------------|---------------|----------------------------|----------------------------|--------------------|--------------------|----------------------------|----------------------|-----------------------|
| 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                    |

