



## *PLASTIC FITTINGS*

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## **POLYETHYLENE PIPE**



### **POLYETHYLENE PIPE**

- all sizes from 3/4" IPS through 12" IPS
- all SDR's
- reels, coils, straight length

*For information on pressure ratings, see next page.*



## PLASTIC FITTINGS

### CSA 662 PRESSURE RATINGS

**3408 HYDROSTATIC DESIGN BASIS 1600 (11.03)**  
**2406 HYDROSTATIC DESIGN BASIS 1250 (8.62)**

SERVICE FLUID FACTOR	T<23C
DRY GAS GATHERING	0.5
WET GAS GATHERING	0.25
MULTIPHASE	0.25
LVP LIQUID HYDROCARBONS	0.25
OILFIELD WATER	0.5
DISTRIBUTION	0.4

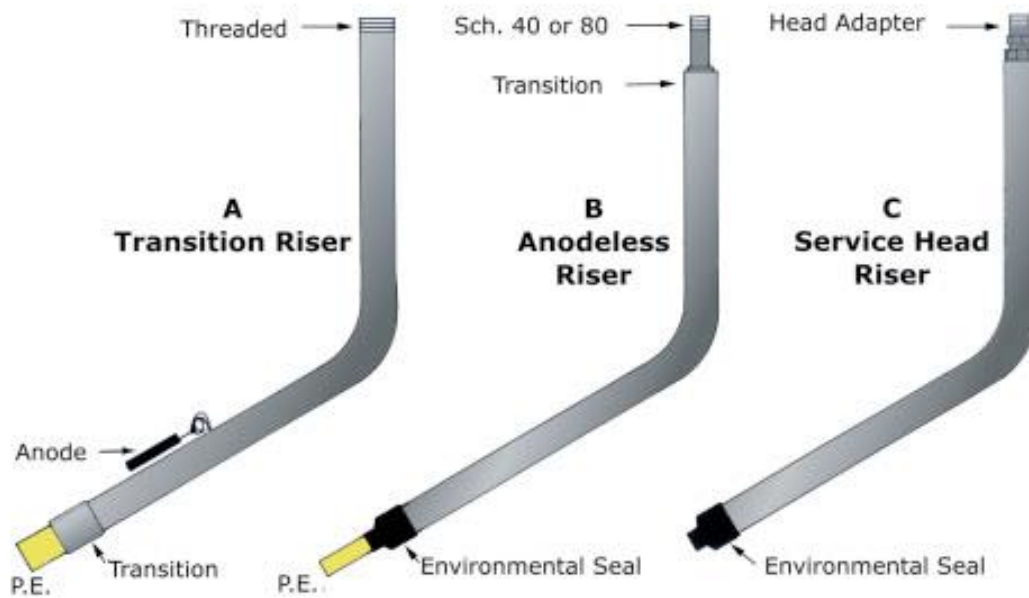
	DRY GAS GATHERING		WET GAS GATHERING		MULTIPHASE		LVP LIQUIDS HYDROCARBONS		OILFIELD WATER		DISTRIBUTION	
<b>PE3408</b>												
<b>SDR</b>	<b>KPA</b>	<b>PSI</b>	<b>KPA</b>	<b>PSI</b>	<b>KPA</b>	<b>PSI</b>	<b>KPA</b>	<b>PSI</b>	<b>KPA</b>	<b>PSI</b>	<b>KPA</b>	<b>PSI</b>
17.5	668	97	334	48	334	48	334	48	668	97	535	78
13.5	882	128	441	64	441	64	441	64	882	128	706	102
11.0	1103	160	552	80	552	80	552	80	1103	160	882	128
9	1379	200	689	100	689	100	689	100	1379	200	11103	160
7.3	1751	254	875	127	875	127	875	127	1751	254	1401	203
6.3	2081	302	1041	151	1041	151	1041	151	2081	302	1665	241
5	2758	400	1379	200	1379	200	1379	200	2758	400	2206	320
<b>PE2406</b>												
<b>SDR</b>	<b>KPA</b>	<b>PSI</b>	<b>KPA</b>	<b>PSI</b>	<b>KPA</b>	<b>PSI</b>	<b>KPA</b>	<b>PSI</b>	<b>KPA</b>	<b>PSI</b>	<b>KPA</b>	<b>PSI</b>
13.5	690	100	441	64	441	64	441	64	690	100	552	80
11.0	862	125	552	80	552	80	552	80	862	125	690	100
8.8	1105	160	707	103	707	103	707	103	1105	160	884	128

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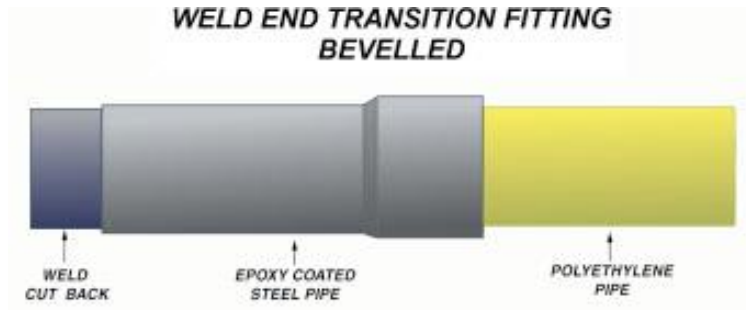
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### SERVICE RISERS



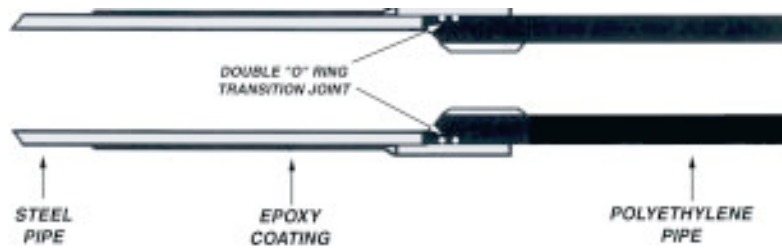
- choice of lengths - straight or pre-bent
- sizes up to 4"
- CSA approved
- custom manufacturing available

### TRANSITION FITTINGS



- for all P.E. to steel joints
- 100% pressure tested welds
- available ½" CTS – 12" IPS
- CSA approved
- Canadian made - Canadian owned

*For dimensions see Appendix A*



### TRANSITION FITTINGS

#### INSIDE DIAMETER CONTROLLED TRANSITION FITTING



- for all P.E. to Steel Joints
- available 1/2" CTS – 12" IPS, all SDR's
- manufactured to CSA 137.4
- Canadian made - Canadian owned

*For dimensions see Appendix B*

#### INSIDE DIAMETER CONTROLLED TRANSITION FITTING





### FABRICATED FITTINGS

- fittings have a large outside diameter and extremely thick wall yet maintain the requested inside diameter and pipe end configurations
- welds are notched and fused providing no stress on the back of the fitting
- standard and full pressure are available in 2" IPS – 14" IPS, SDR 5 – 21
- ID controlled are available in 2" IPS – 12" IPS, SDR 5 – 21
- Custom sizes, SDR's and angles are available upon request

#### **STANDARD:**

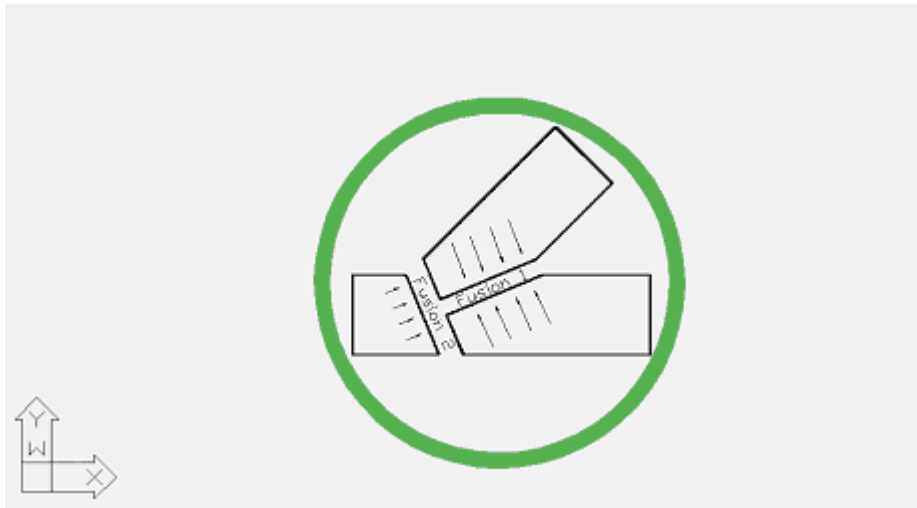
Made using actual dimension ratio polyethylene  
75% operating pressure

#### **FULL PRESSURE:**

Made using one full dimension ratio thicker polyethylene with the same outside dimensions and reduced internal dimensions  
Full pressure rating

#### **ID CONTROLLED:**

Made using one full iron pipe size with similar internal dimensions  
Full pressure rating

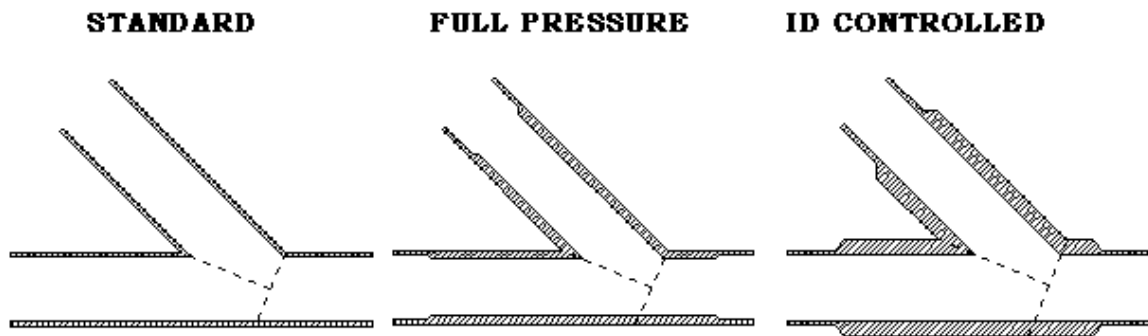


The pipe is first cut with a band saw, then the first two pieces to be fused are clamped into the jaws. They are then precisely faced with the facing unit of the machine. Only after all foreign matter, oxidation and saw marks are removed and perfect alignment is achieved is the heater introduced for fusion. This makes it

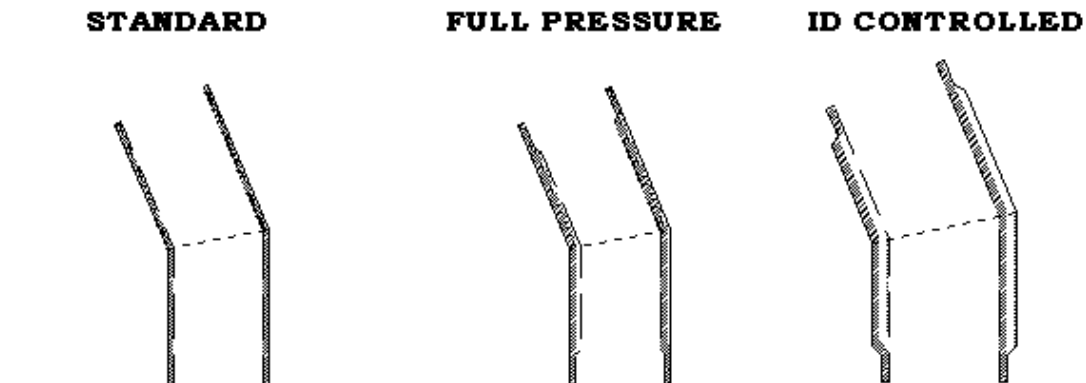
possible to produce consistent high quality fittings that can be rated to pipe manufacturer's fusion guidelines.

## FABRICATED FITTINGS

### 3 SEGMENT 45° LATERAL



- Also available in 45°



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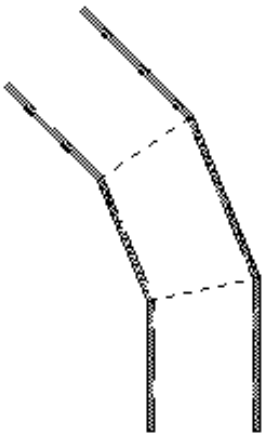
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## FABRICATED FITTINGS

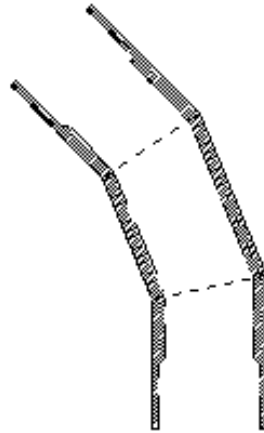
### **3 SEGMENT 45° ELBOW**

- Also available in 90°

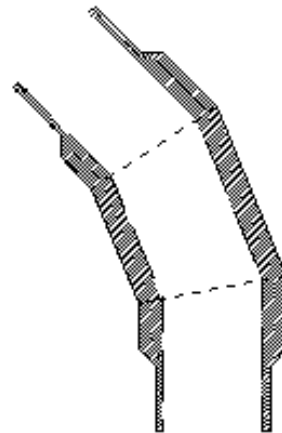
**STANDARD**



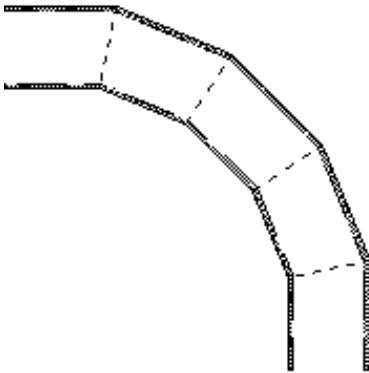
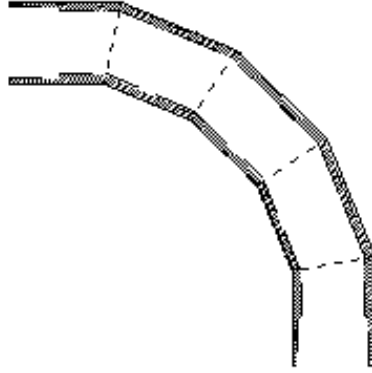
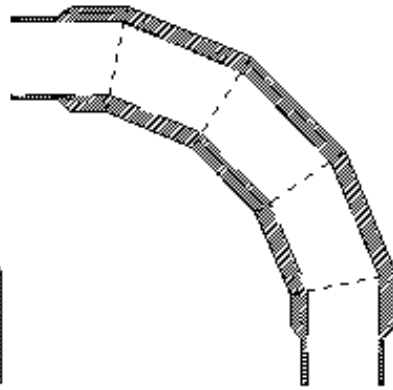
**FULL PRESSURE**



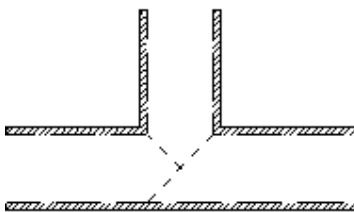
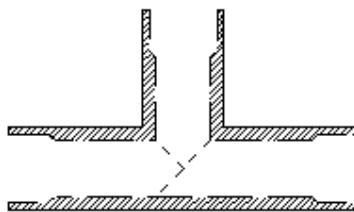
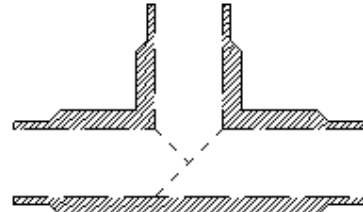
**ID CONTROLLED**



### **5 SEGMENT 90° ELBOW**

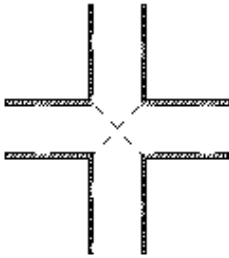
**STANDARD****FULL PRESSURE****ID CONTROLLED**

### 3 SEGMENT 90° TEE

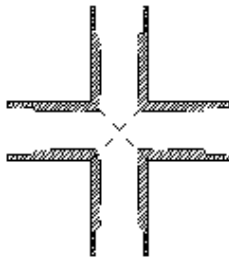
**STANDARD****FULL PRESSURE****ID CONTROLLED**

**4 SEGMENT CROSS**

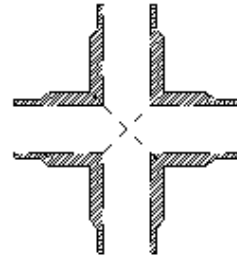
**STANDARD**



**FULL PRESSURE**

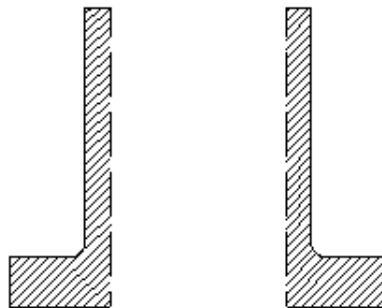
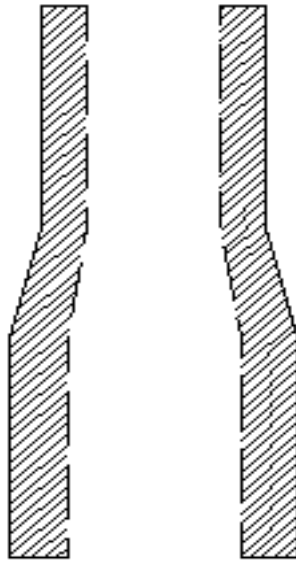


**ID CONTROLLED**

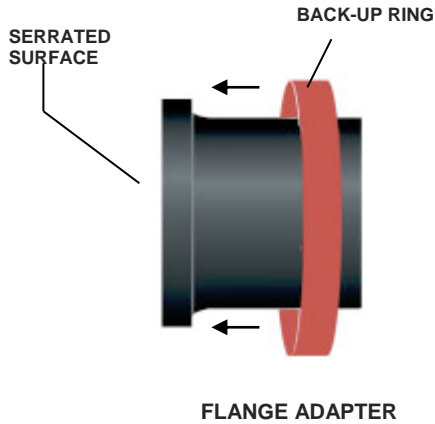


**FABRICATED FITTINGS**

**FABRICATED REDUCER**



**FL**



- flange joint can be butt fused to pipe
- serrated sealing surface for better gasket retention
- steel back-up ring provides uniform pressure over the entire sealing surface to prevent leaking
- Back-up ring is fitted to the adapter before fusion, so external fusion bead removal is not required
- Available in 2" – 24", all SDR's

## SUPPORT CLAMP



- 4-bolt PVC pipe support clamp for external support to squeezed pipe
- available in 1/2" CTS – 6" IPS

## SOCKET FITTINGS

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**SOCKET TEE**



**SOCKET ELL 90°**



**SOCKET CAP**



**SOCKET COUPLING**



**SOCKET REDUCER  
COUPLING**

- available in sizes ½" CTS – 4" IPS
- injection molded from polyethylene resin
- medium or high density polyethylene



### BUTT FITTINGS



**BUTT CAP**



**BUTT TEE**



**BUTT REDUCER**



**BUTT ELL 90°**



**BUTT ELL 45°**

- injection molded from medium or high density polyethylene resin
- ½" CTS – 12" IPS
- full range of SDR's
- flange adapters and backup rings also available

## BRANCH SADDLES

SADDLE SIZE	X	OUTLET SIZE
2", 3", 4", or 6" IPS		2" IPS
4", or 6" IPS		3" IPS
6" IPS		4" IPS



## TAPPING TEES & SERVICE SADDLES

- saddle sizes 1 1/4" IPS through 8" IPS
- outlet sizes 1/2" CTS through 1 1/4" IPS
- available with socket fusion or butt fusion outlets
- tapping tee has buttress threads to lock the cap in place
- high volume tapping tees available in saddle sizes 2"-8" IPS with 2" outlet
- cutter wrenches available



## U-BEND SOCKET & SPIGOT- 180°

- one socket 90° elbow and one spigot 90° elbow required to produce one 180° U-Bend
- injection molded in black HDPE 3408
- available in sizes 3/4" - 1 1/4" IPS



### COMPRESSION or STAB FITTINGS



**COMPRESSION  
FITTINGS**



**STAB REPAIR  
COUPLING**

- coupling, reducing coupling, 90° elbow, 3-way tee, and end cap
- forming tool is used to prepare pipe end for insertion into fitting
- sizes ½" CTS through 2" IPS

### ELIMINATOR TEE



- for creating a branch from a plastic main without fusing
- for main sizes 1" -6" and outlet sizes 3/8" – 2"
- coupon retaining punch sizes ½" - 1 ½"
- drive wrench available

### VALVES

#### PLUG VALVE

- stem, plug and adaptor are combined into a single part of molded high-strength plastic
- one piece polyethylene body
- can be joined to pipe using butt fusion, socket fusion or mechanical connection
- available in ½" CTS - 1 ¼" IPS



#### BALL VALVES

- constructed to withstand field abuse
- dual stem seals
- molded polyethylene body
- can be joined to pipe using butt fusion, socket fusion, or mechanical connection
- available in ½" CTS - 12" IPS



### VALVE BOXES, CURB BOXES



VALVE BOX



CURB BOX

- cast iron rings and covers
- sizes from 1/2" to 8" in variety of heights

### DEBRIS CAPS

- debris caps protect valves from dirt, debris, and damage
- reduces response and repair time during emergency line breaks or leaks
- optional locking device is available to prevent unauthorized operation of valve





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