

# R.W. LYALL

## TRANSITION FITTINGS

Two Proven Designs  
to choose from.....

### I.D. & O.D. Seal Designs

Lyall Transition Fittings are one-piece, factory-assembled transitions that provide safe, economical, and easy to install connections between gas carrying steel pipe and polyethylene (PE) pipe.

Lyall is the only manufacturer that offers 2 distinct transition sealing methods allowing a larger choice of product configurations to meet your requirements.

### Features

- Meets or exceeds industry specifications
- Fusion bonded epoxy coating offers excellent mechanical and electrochemical properties.
- All welded joints are 100% pressure tested.

Threaded End

Epoxy or Primer  
Coatings

Victaulic Groove

### Proven Reliability

Both designs have been approved by most major natural gas, propane and industrial fluids companies, with over 4 million in use.

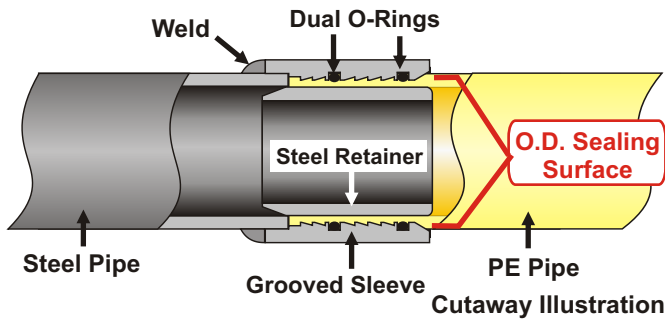
150 lb Flange

Beveled  
for Welding



# Lyall Steel to PE Pipe Transition Fittings

## O.D. Seal Transition Original Wayne Mfg Design

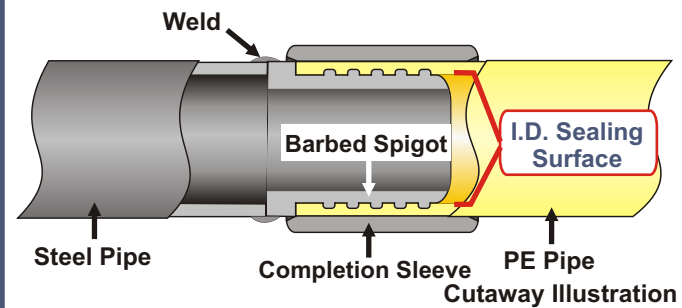


The O.D. seal design utilizes an internally grooved sleeve and two tamper-proof O-rings to seal to the PE pipe's outside wall. A steel retainer is pressed into place compressing the PE into the grooved sleeve. This permeant, leak-proof seal ensures a tensile strength that is far greater than the PE pipe itself. This model has been manufactured for over 30 yrs.

### Standard Sizes and Configurations for this model:

Threaded Steel End: 3/4 NPT to 6 NPT  
 Weld-Ready Steel End: 3/4 IPS to 12 IPS  
 Flange Steel End: 2 IPS to 8 IPS  
 External Epoxy Coating  
 External & Internal Epoxy Coating - Available on Victaulic Groove and Threaded styles

## I.D. Seal Transition Original Lyall Design



The I.D. seal design utilizes the smooth inside wall of the PE pipe to provide a leak-proof seal, without the need of O-rings. This is accomplished by compressing the PE between the completion sleeve and the steel barbed spigot. This design provides for a tensile strength that is much greater than the PE pipe itself. This model has been manufactured for over 35 yrs.

### Standard Sizes and Configurations for this model:

Threaded Steel End: 1/2 NPT to 4 NPT  
 Weld-Ready Steel End: 1/2 IPS to 8 IPS  
 Flange Steel End: 2 IPS to 8 IPS  
 Internal Epoxy Coating: Not Available  
 Victaulic Groove Steel End: Not Available

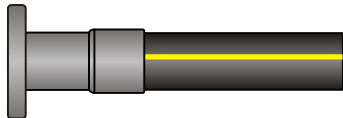
### STEEL END CONNECTIONS



Threaded End (per ANSI B1.20.1)



Weld-Ready End (Beveled)



Flange End (Flat or Raised Face)



Victaulic Groove (O.D. seal model)

### STEEL END OPTIONS

- SCH 40 (standard) or SCH 80
- Primer or other coatings
- Internal Fusion Bonded Epoxy Coating (Available on Victaulic Groove and Threaded O.D. seal models only)

### STANDARD SIZE CONFIGURATIONS

Weld-End Style - Standard Configurations		Threaded End Style - Standard Configurations	
1/2 IPS X 1/2 IPS	1-1/4 IPS X 1-1/4 IPS	1/2 NPT X 1/2 IPS	1-1/4 NPT X 1-1/4 IPS
3/4 IPS X 1/2 CTS	1-1/2 IPS X 1-1/2 IPS	3/4 NPT X 1/2 CTS	1-1/2 NPT X 1-1/2 IPS
3/4 IPS X 1/2 IPS	2 IPS X 2 IPS	3/4 NPT X 3/4 IPS	2 NPT X 2 IPS
3/4 IPS X 3/4 IPS	3 IPS X 3 IPS	1 NPT X 1 CTS	3 IPS X 3 IPS
1 IPS X 3/4 IPS	4 IPS X 4 IPS	1 NPT X 1 IPS	4 NPT X 4 IPS
1 IPS X 1 CTS	6 IPS X 6 IPS	1 NPT X 1 1/4 IPS	6 NPT X 6 IPS
1 IPS X 1 IPS	8 IPS X 8 IPS		
1 IPS X 1-1/4 IPS	10 IPS X 10 IPS		
1-1/4 IPS X 1 CTS	12 IPS X 12 IPS		

Flange Style: 150lb flange 2, 3, 4, 6, and 8 IPS  
 Victaulic Groove Style: 2, 3, 4, 6, and 8 IPS

### OTHER OPTIONS

- Protector Sleeves, Wire-clips, Anodes
- Steel to PVC Pipe (Available on Threaded O.D. seal models only)

The sizes shown on this data sheet are the most requested configurations; please contact your Lyall product representative for additional sizes.

### PRODUCT SPECIFICATIONS

- Meets or exceeds the requirements of ASTM D2513 category 1, ASME B 1.20, ASME B 31.8, US CFR 49 Part 192.
- Listed with IAPMO/UPC and CSA B137.4

## R.W. Lyall & Company, Inc.

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