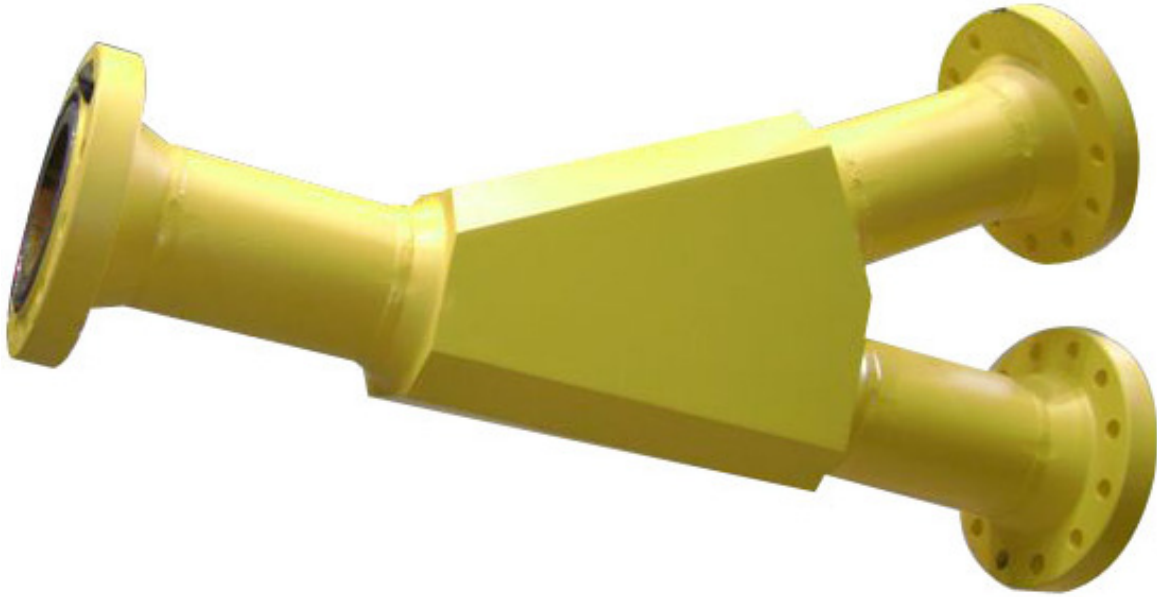


PIGGABLE WYE FITTING

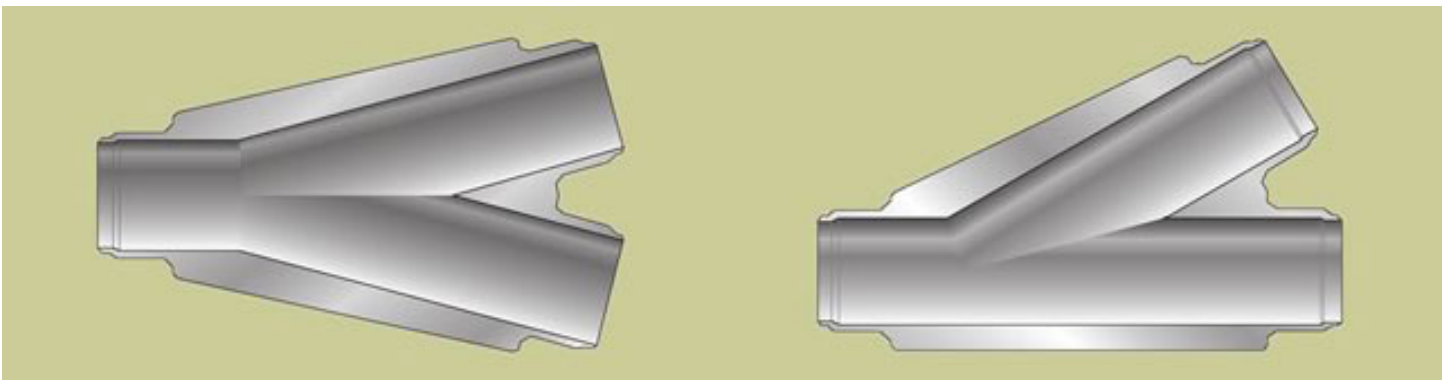


Oceaneering's Piggable Wye is a forged or cast fitting that joins pipelines and permits pigging from either inlet branch toward the single outlet. The fitting utilizes a 30° inclusive angle between the inlet bores, an industry accepted intersection for reliable passage of most common pipeline pigs.

The Piggable Wye is available in two

basic configurations, Symmetrical and Asymmetrical.

- The inlets and outlets of the basic Piggable Wye terminate with a hub prepared for butt-welding
- The ends can also be supplied with pipe pups for butt-welding or pipe pups with flanges



Symmetrical Piggable Wye Fitting (left) and Asymmetrical Piggable Wye Fitting (right)



PIGGABLE WYE FITTING SPECIFICATIONS



Design Parameters:

- Nominal Pipe Size (NPS): any API Specification 5L pipe, wall thickness and grade
- Service: Standard (i.e. crude oil, natural gas, hydrocarbons, water or chemical injection, etc.) and Sour (i.e. hydrogen sulfide, carbon dioxide, etc.)
- Design Pressure Rating: up to ASME Class 2500
- Hydrostatic Test Pressure (min): 1.5 times Design Pressure Rating rounded up to nearest 25 psig
- Hydrostatic Test Duration (min): 1 hr
- Design Temperature Range: -20°F (-29°C) to 250°F (121°C)
- Configuration: Symmetric or Asymmetric
- Inlet/Outlet Ends: Butt-Weld Hubs, Butt-Weld Pipe Pups or Flanged

Material Specifications:

- Body: ASTM A105 or ASTM A694 forging (size and pipeline grade dependent)
- External Coating: Carboline 890 Epoxy Paint System, Safety Yellow Color

Certifications:

- ISO 9001:2008 - World Certification Services Ltd. - Accredited by UKAS Quality Management
- EN 10204 Section 3.1.B (DIN 50049), Inspection Documents for the Delivery of Metallic Products

Applicable Design Codes, Standards & Specifications (latest editions):

- OIE/PRS Group Piggable Wye Drawings, Bill of Materials (Controlled Copies) and Vendor Supplied Material Test Reports
- OIE ISO 9001:2000 Quality Assurance - Quality Control Procedures & PRS Operating Procedures
- ASME Boiler Pressure Vessel Code, Section V Nondestructive Examination
- ASME Boiler Pressure Vessel Code, Section VIII, Division 1 and 2
- ASME Boiler and Pressure Vessel Code, Section IX Welding and Brazing Qualifications (applicable if configured with Pipe Pups or RTJ Flanges)
- ASME B16.5, Pipe Flanges and Flanged Fittings
- ASME B31.4, Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids
- ASME B31.8, Gas Transmission and Distribution Systems
- API SPEC 5L, Specification for Line Pipe
- MSS SP-44, Steel Pipeline Flanges
- NACE Standard MR0175, Sulfide Stress Cracking Resistant Metallic Materials for Oilfield Equipment

