

Bi-Directional Piggable Wye Fitting



The Bi-Directional Piggable Wye Fitting is a forged or cast fitting that joins pipelines and permits bi-directional pigging of subsea and onshore pipelines. For subsea applications, the fitting may be installed in shallow and deep waters. The fitting utilizes the same 30° inclusive angle between the inlet bores as a standard piggable wye fitting. A 30° angle is an industry accepted intersection for reliable passage of most common pipeline pigs.

The wye fitting provides an easy and reliable solution to pigging of pipeline systems through one designated pipeline into either of the lateral lines connected to the inlets of the fitting. The inlets of the fitting can be designed in various configurations. The standard weld end configuration for new construction is commonly used. Optional fabrication services to weld customer provided pipe pups to the weld ends of the fitting are available on request. The fitting is available in two basic designs, Symmetrical and Asymmetrical.

The wye fitting can be custom designed for any type of actuator per customer request. On actuation, the internal diverter sleeve in the main line rotates the sleeve to isolate the lateral line, allowing bi-directional pigging from the main line to the open lateral line. The design allows for a normal pipeline operation when the sleeves are in open position. For manually operated wyes, a gear box with a hand wheel is used to rotate the diverter sleeve 180° into closed position. For subsea applications beyond diver depths, the actuator is designed to be hydraulically operated by a Remotely Operated Vehicle (ROV).

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