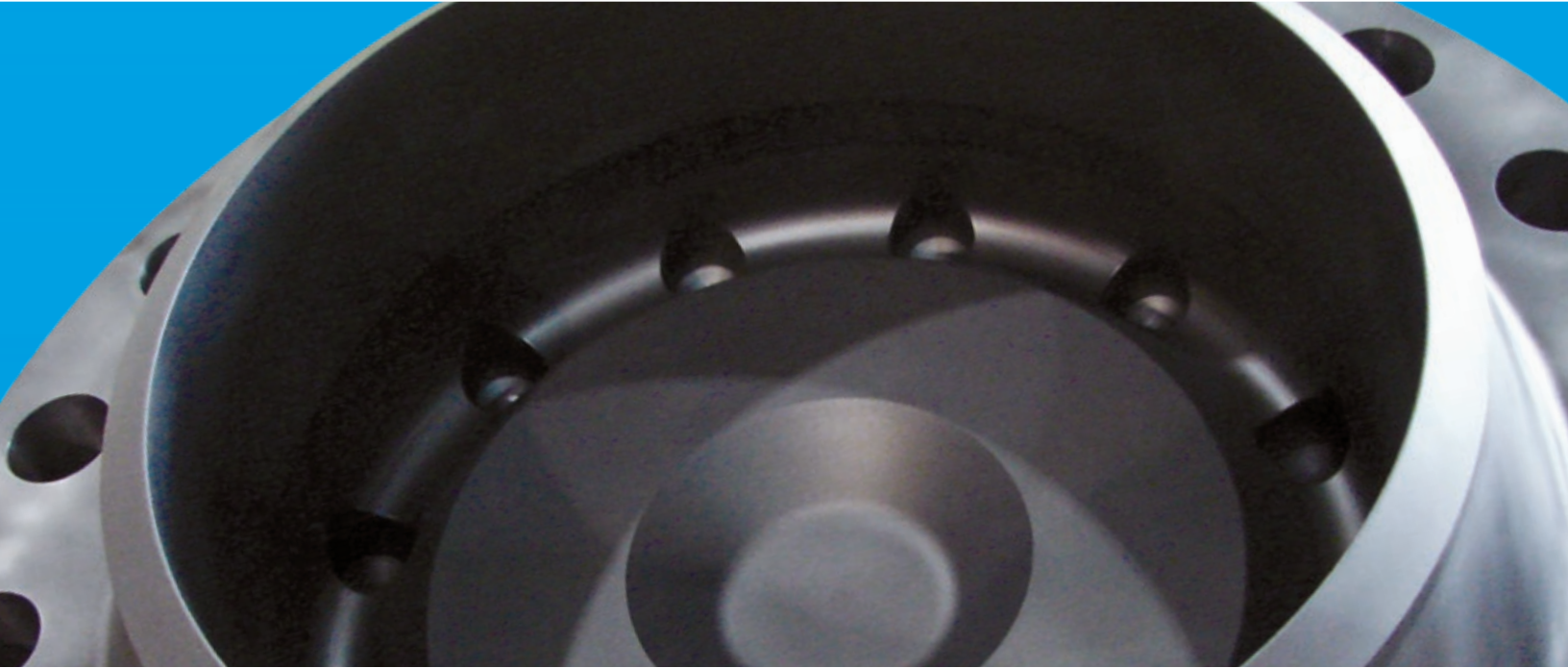




SUBSEA PIPELINE SYSTEMS

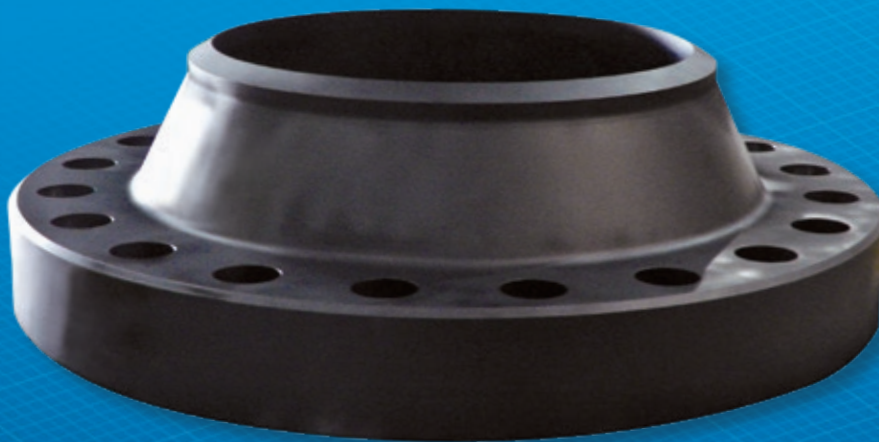
TapAble Flange



TAPABLE FLANGE

The Oil States TapAble Flange is a cost-effective, pressure-containing alternative to traditional subsea valve tie-in assemblies. When utilized as a future tie-in point on a subsea pipeline, the TapAble Flange eliminates the up-front cost of the valve as well as the additional fabrication and installation cost of the typical valve assembly.

To make the lateral line tie-in, the operator installs a subsea valve on the flange and taps out the flange blank using a hot tap machine. The forged-body TapAble Flange is machined from a single A694 forging, unlike conventional tie-in flanges manufactured from castings. Cast flanges can require costly, specialized welding procedures and may not meet customer project-specific C.E. requirements.





Key Benefits

The TapAble Flange is a cost-effective solution to provide a ready hot tap tie-in location on an existing line. The flat pressure-containment area of the TapAble Flange contains intermittent machined grooves on the OD and the ID of the flange membrane. These evenly spaced grooves create a continuous channel for the dispersal of steel chips from the tapping operation. A pre-machined center punch also creates a positive alignment guide for the pilot drill during the tapping process.

- Provides pressure containment without the use of a sub-sea valve
- Lower cost than a valve, from manufacturing to installation
- Unique tapping machine – user friendly
- Forged body construction eliminates welding issues with cast flanges
- Less costly than mechanical hot tap clamps

Applications

- Pipeline repair operations - shallow, diver assist
- Pipeline new construction for tie-in point - shallow water, diver assist

Services

- Engineering design
- Testing - FAT, SIT qualification
- Coatings
- Installation technical assistance

Oil States Subsea Pipeline Systems

Oil States' Houston-based Subsea Pipeline Systems division designs, manufactures and markets proprietary deepwater and shallow water pipeline connectors for subsea pipeline construction, repair and expansion projects.



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