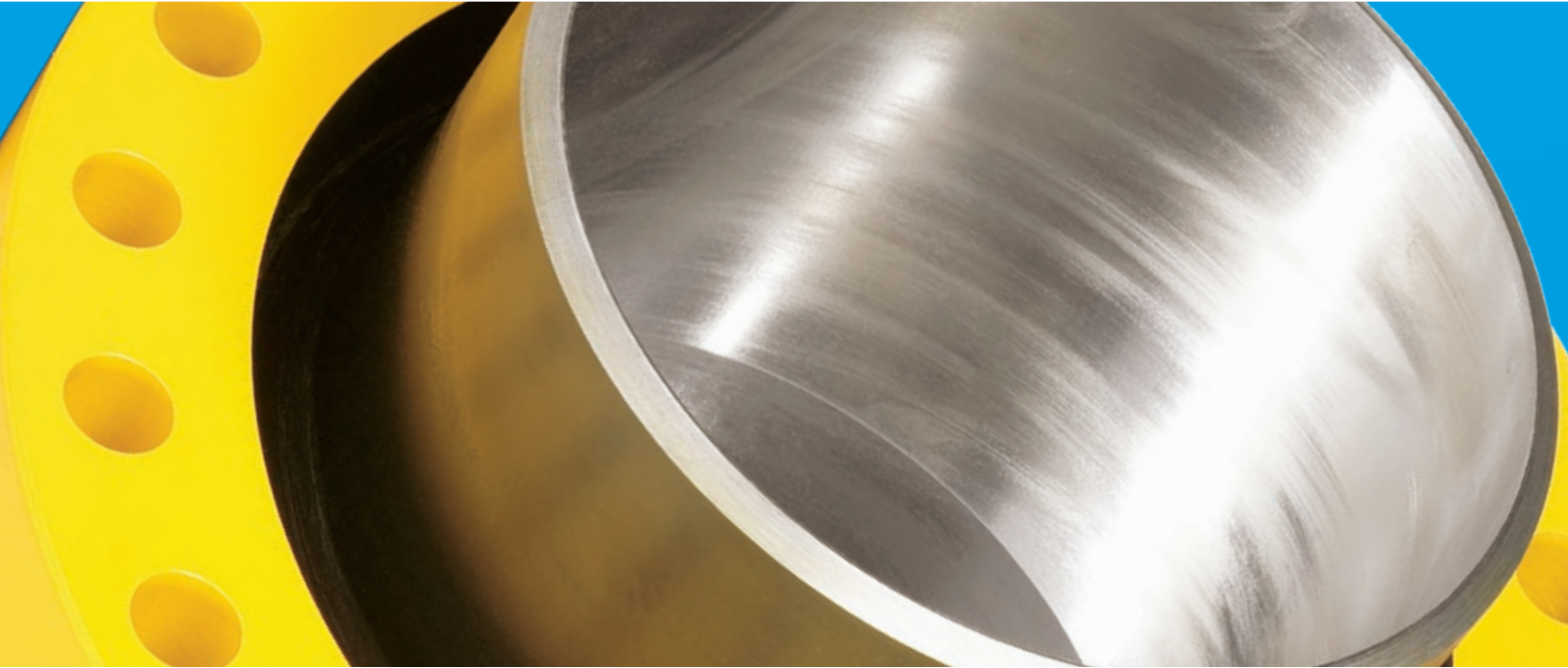




SUBSEA PIPELINE SYSTEMS

FlangeMate Misalignment Connector



FLANGEMATE MISALIGNMENT CONNECTOR

The Oil States FlangeMate Misalignment Connector (FMF) is a highly engineered product that facilitates connection of flanged tie-ins for underwater pipelines. This connector is designed to reduce time and cost to complete connections without sacrificing long-term operational integrity.

Oil States has installed FlangeMate Misalignment Connectors in sizes from 4" to 56". Stock inventory sizes available from 4" to 30" for expedited delivery.





SUBSEA PIPELINE SYSTEMS

FlangeMate Misalignment Connector

Key Benefits

- Angular adjustment of $\pm 10^\circ$ (20° total misalignment)
- Bolt hole rotation enables fast alignment and bolt insertion
- Repeatable, integral metal-to-metal seal
- Integrated annulus test port and seal test feature
- Enhanced wiper seal system isolates the metal seal area from contaminants
- Accommodates high-capacity flange spreader loading
- ASME compliant

Applications

- Pipeline repair operations - shallow, diver assist

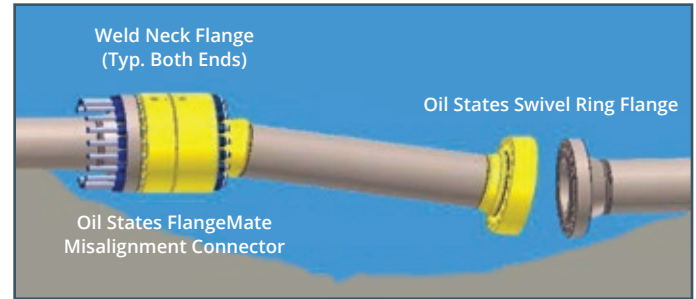
Services

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

Oil States Subsea Pipeline Systems

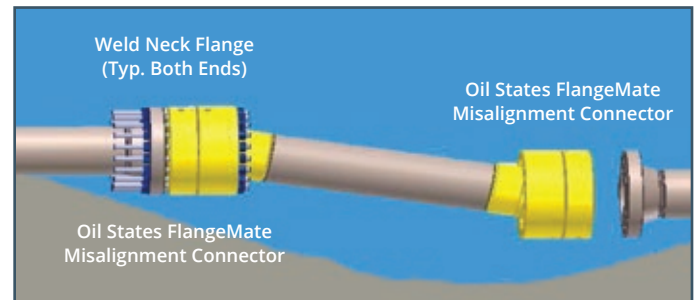
Oil States' Houston-based Subsea Pipeline Systems division designs, manufactures and markets proprietary deepwater and shallow water pipeline connectors for subsea pipeline construction, repair and expansion projects.

Typical Spool Piece Tie-ins



*FlangeMate x Swivel Ring Spool
Provides bolt hole alignment and limited angular alignment*

Recommended Spool Piece Tie-ins



*FlangeMate x FlangeMate Spool
Provides bolt hole alignment and maximum angular alignment*



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