



Dual Grip & Seal Connector Repair System

For deepwater, diverless pipeline repairs

Oil States Dual Grip & Seal Connector Repair System is a sophisticated pipeline repair system designed specifically for diverless depths. A complete system consists of the following key components:

- (2) Dual Grip & Seal Connectors
- (2) Diverless Misalignment Flange Connectors
- (1) Repair Spool Piece
- (2) Alignment Structure Bases



An Innovative Alignment Base

The system's unique alignment base is the interface structure by which the Dual Grip & Seal links the jumper to the pipeline.

The base is built with a slotted end to allow installation directly over the prepared end of the parent pipeline. Two sets of clamps capture the pipeline securely and in the correct position.

Horizontal Jumper Deployment

The jumper is deployed into two saddles on each alignment base. The saddles act as a cushion and guide for correct positioning of the jumper.

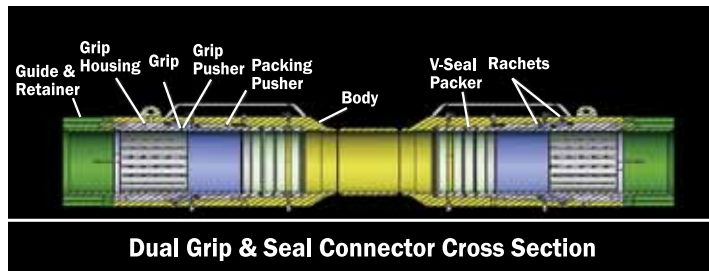
Mounted wedges keep the jumper stable while the misalignment flanges are disengaged to allow rotation for proper positioning. The wedges then drive the jumper securely into the bottom of the saddle. The repair system is then actuated from the jumper onto the parent pipe, and the connector is set and tested.

Adapts To A Range Of Pipeline Sizes

The Dual Grip & Seal Repair System can accommodate pipeline sizes from 12-inches to 24-inches.

Dual Grip and Seal Connector Repair System

- **Permanent repair system**
- **Ease of installation**
- **Reduced mobilization time**
- **Accommodates varying pipe sizes and pressures**
- **Accommodates up to 25-inch misalignment**



Ordering Information

Please provide the following information on any purchase order or request for quotation:

- Pipeline size or sizes
- Pipe wall thickness or bore
- Pipe grade
- Design rating
- Pipeline product
- Water depth
- Soil conditions



OIL STATES HOUSTON

MANUFACTURING, ENGINEERING & SALES:
6120 E. Orem Drive
Houston, Texas 77048USA
Tel +1 713 445 2210
Fax +1 713 445 2380
houstonales@oilstates.com

Houston Ship Channel
16730 Jacintoport Blvd.
Houston, Texas 77015USA
Tel +1 281 247 7400
Fax +1 281 247 7401

SALES OFFICES:
North America
Oil States Industries, Inc.
1155 Dairy Ashford, Ste. 700
Houston, Texas 77079
USA
Tel +1 713 510 2200
Fax +1 713 510 2307

South America
Oil States Industries do Brasil Ltda.
Centro Empresarial Barra Shopping
Av. das Américas 4200, Bl. 8,
Cob. 303CEP 22640-102
Barra da Tijuca, RJ Brazil
Tel +55 21 3385 4473

Europe & Eurasia
Oil States Industries, Inc.
Blackness Road
Altens Industrial Estate
Aberdeen, AB12 3LH
Scotland, UK
Tel +44 (0)1224 896190
Fax +44 (0)1224 896199

Oil States Industries, Inc.
36, Bd des Oceans
13275 Marseille, Cedex 9
France
Tel +33 491 40 89 35
Fax +33 491 40 14 82

Oil States Industries, Inc.
Suite 5, 1 F. Amirov Street
Baku, AZ1000
Azerbaijan
Tel +994 12 4 981 125
Fax +994 12 5 379 125

SE Asia
Oil States Industries, Inc.
102 Bis/M Le Lai Street
Ho Chi Minh City, District 1
SR Vietnam
Tel +84 8 3925 3545
Fax +84 8 3925 0123

Middle East
Oil States Industries, Inc.
Fairmont, Ste. 712
Sheikh Zayed Road
Dubai, United Arab Emirates
Tel +971 50 5500954

Africa
Oil States Industries (Nigeria) Ltd.
No. 50c Glover Road
Ikoyi, Lagos
Nigeria
Tel +234 1 2718363
Fax +234 1 2718364

