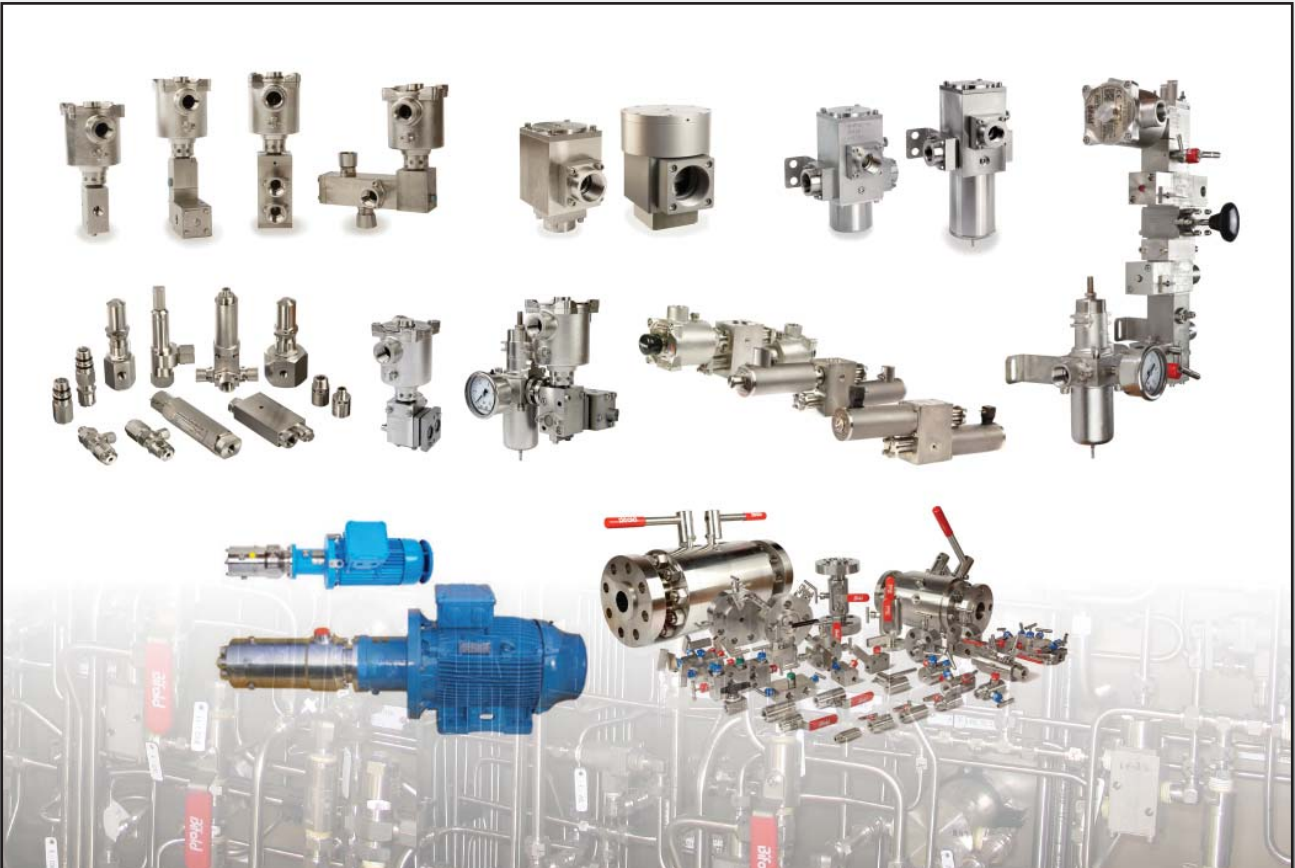




*Global Presence for  
Peace of Mind*

# Bifold® Group

## Pneumatic and Hydraulic Installation Reference List September 2012



-  SIL 3 Third Party Certified.
- Widest Range of Valve and Pump Solutions.
- Lowest Cost Business Model from Design to Customer.
- Worldwide Certification.  

- Permanent Support Onshore and Offshore.
- A Modern Business with a Vision for the Future.

*Innovative and Reliable  
Valve and Pump Solutions*



[www.bifold.co.uk](http://www.bifold.co.uk)

### A Leading Group



## Introduction

The Bifold Group of companies have provided peace of mind to contractors, installers and end users for over a century. Our innovative range of products, specifically designed with the customer in mind, have gained worldwide approval and credibility for the onerous conditions as found in hazardous (classified) locations, hostile and subsea environments.

The customer requirements for sustained safety and reliability under extreme operating conditions are Bifold's primary objectives. Our state of the art production facilities based in the UK, allows our superior and innovative designs to be manufactured to rigorous quality standards. All this provides the customer with superior products for their application.

Bifold Fluidpower is a leading manufacturer of electro-hydraulic and pneumatic directional control valves and accessories for the upstream and downstream oil and gas industry. With the acquisition of Marshalsea Hydraulics, the Bifold Group can offer an additional wide range of pump sets and pressure intensifiers along with other hydraulic products.

## Worldwide Service and Support

Located in Manchester, UK, Bifold has subsidiary locations in Houston, USA, Singapore and Taunton, UK. The Bifold Group of Companies are supported worldwide with a global network of agents and distributors.

With over 95% of sales for export, Bifold provides product and technical support for over 5,000 valve product types worldwide. The group have invested in state of the art machining centres ensuring accuracy of close tolerances, such as all thread milled ports, and a rapid turnaround capability.

The customer can be confident that Bifold has the product portfolio and the technical and production capability to provide the correct solution for pneumatic and hydraulic system requirements.

## Product Development

Bifold recognise that the demands of the customer base never stand still and we are therefore committed to the ongoing development of our products and features to provide improved safety, versatility, reliability and ease of use.

## Leading Performance

Predominantly used on offshore and onshore oil and gas exploration, production and processing facilities, Bifold's products are chosen by the world's major oil, gas and petrochemical companies. Depth of knowledge enables the identification of the best solution for each application. Over 3,000 designs include valves for pressures from 10 to 20,000 psi, ambient temperatures from -60°C to +180°C and fluid contamination levels beyond ISO 4406 Class 21/18 (NAS 1638 Class 12). Solenoid valves with worldwide certification and Safety Integrity Level (SIL 3) for hazardous (classified) locations are available with power ratings from 0.9 to 20 watts, depending on the application.



**Pneumatic and  
Instrumentation Valves**

**Hydraulic Valves**

**Subsea Valves**

**Hydraulic Pumps,  
Intensifiers and Valves**

Bifold, Bifold Fluidpower, Bifold Subsea and Marshalsea Hydraulics Ltd are all members of the Bifold Group. Registered No. 1787729 in England. Registered Office: Greenside Way, Middleton, Manchester M24 1SW.

## Project History



### Global Presence for Peace of Mind

For quality, reliability and above all, safety, Bifold provide the obvious choice of products. From design through to manufacture and installation of Hydraulic and Pneumatic, Instrument, Process, Directional Control Valves and Pumps.

Our on site capabilities means that whatever you need and wherever you are, we are conveniently placed to provide you with total support and peace of mind.



MAJOR PROJECT SUCCESS		
Operator	Project Name	Location
Abu Dhabi Polymer	Barouge	Abu Dhabi
ADNOC / ADCO	BAB	Abu Dhabi
ADNOC / ADCO	Bu Hasa	Abu Dhabi
ADNOC / ADCO	North East BAB (NEB)	Abu Dhabi
ADNOC / ADCO	OGD - II of OGD III	Abu Dhabi
ADNOC / ADCO	Thamama	Abu Dhabi
ADNOC / ADMA OPCO	Das Island	Abu Dhabi
ADNOC / ADMA OPCO	Umm Shaif	Abu Dhabi
ADNOC / ADMA OPCO	Zakum	Abu Dhabi
ADNOC / GASCO	Shah	Abu Dhabi
Apache	Devil Creek / Reindeer - Caribou	Australia Offshore
Apache	Forties Platforms	North Sea
Apache	John Brooks	Australia Offshore
Arvandan Oil & Gas	Darquain (Arvandan)	Darquain South Iran
BHP	Angostura	Trinidad Offshore
BHP	Neptune	USA GOM
BHP	Pyrenese FPSO	Australia Offshore
Bluewater	Bleo Holm FPSO	North Sea
Bluewater	Hoewene Brim FPSO	North Sea
BP	ACG, Azeri Chirag Guneshi	Caspian Sea
BP	Amethyst	North Sea
BP	Andrew	North Sea
BP	Arbroath	North Sea
BP	Arkwright	North Sea
BP	Atlantis	USA GOM

MAJOR PROJECT SUCCESS		
Operator	Project Name	Location
BP	Avonmouth Terminal	UK
BP	Bacton Renewal	UK
BP	Beatrice	North Sea
BP	Boqueron	Venezuela
BP	Bruce	North Sea
BP	BTC Pipeline	Caspian
BP	Buchan	North Sea
BP	Cats	North Sea
BP	Clair	North Sea
BP	Cleaton	North Sea
BP	Clyde	North Sea
BP	Cupiaga	Columbia
BP	Cusciana	Columbia
BP	Delmeny Terminal	UK
BP	ETAP	North Sea
BP	Everest	North Sea
BP	Foinaven	North Atlantic
BP	Forties	North Sea
BP	Forth	North Sea
BP	Grangemouth Refinery	UK
BP	Greater Plutonio (Block 18)	Angola Offshore
BP	Gyda	North Sea
BP	Hamble Refinery	UK
BP	Inde	North Sea
BP	Lan Tay	Thailand
BP	Leman	North Sea
BP	Lomond	North Sea
BP	Magnus	North Sea
BP	Miller	North Sea
BP	Montrose	North Sea
BP	Nam Con Son	Vietnam Offshore
BP	Newsham	North Sea
BP	N.W. Hutton	North Sea
BP	Pickerill	North Sea
BP	Plutonio	Angola Offshore
BP	Rhum	North Sea

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**Quality Assurance**  
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## Project History



MAJOR PROJECT SUCCESS		
Operator	Project Name	Location
BP	Rijn	Holland Offshore
BP	Rumuila	Iraq
BP	Shah Deniz	Azerbaijan Caspian Sea
BP	Shearwater	North Sea
BP	Shiehallion	North Sea
BP	Skarv	North Sea
BP	Sullom Voe Terminal	UK
BP	SWOPS	North Sea
BP	Tangguh	Indonesia
BP	Thistle	North Sea
BP	Thunderhorse	Gulf of Mexico
BP	Trent / Tyne	North Sea
BP	Valhall	North Sea
BP	Villiages	North Sea
BP	West Sole	North Sea
BP	Wytch Farm	UK
British Gas	Amada	North Sea
British Gas	Blake	North Sea
British Gas	Hasdrubel	Tunisia
British Gas	Karachaganak	Kazakhstan
British Gas	North Morcambe	Irish Sea
British Gas	Rough	North Sea
British Gas	South Morecambe	Irish Sea
BW / Prosafe (Devon Energy)	FPSO Polvo	Brasil Offshore
BW / Prosafe (Petrobras)	FPSO Cidade de Sao Mateus	Brasil Offshore
Chevron	Agbami FPSO	Nigeria Offshore
Chevron	Alba	North Sea
Chevron	Banff	North Sea
Chevron	Blind Faith	USA GOM
Chevron	Bohai Bay	China Offshore
Chevron	Captain	North Sea
Chevron	Erskine	North Sea
Chevron	Frade FPSO	Brasil Offshore
Chevron	Galley	North Atlantic
Chevron	Heather	North Sea
Chevron	Helder	Holland Offshore

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Operator	Project Name	Location
Chevron	Helm	Holland Offshore
Chevron	Highlander	North Sea
Chevron	Hoorn	Holland Offshore
Chevron	Jack & St. Malo	USA GOM
Chevron	Mariner	North Sea
Chevron	Ninian	North Sea
Chevron	Tahiti	USA GOM
Chevron	Tartan	North Sea
Chevron	Tengiz	Kazakhstan
China Gas	Chongqing	China
CNOOC	Qinhuangdao QHD 32-6	China Offshore
CNOOC	Xihu Trough	China Offshore
CNR	Olowi	Gabon Offshore
Coogee Resources	Montara FPSO	Australia Offshore
Conoco Phillips	Bayu Undan FPSO	Australia Offshore
Conoco Phillips	Belanak FPSO	Indonesia Offshore
Conoco Phillips	Bohai Bay, Peng Lai PLI 9-3 FPSO	China Offshore
Conoco Phillips	Britannia	North Sea
Conoco Phillips	Caister Murdoch	North Sea
Conoco Phillips	Delia	North Sea
Conoco Phillips	Ekofisk	North Sea
Conoco Phillips	Humberside Refinery	UK
Conoco Phillips	Hutton	North Sea
Conoco Phillips	Jade	North Sea
Conoco Phillips	Judy / Joanne	North Sea
Conoco Phillips	Kerisi / Hiu	Indonesia Offshore
Conoco Phillips	MacCulloch	North Sea
Conoco Phillips	Maureen	North Sea
Conoco Phillips	Murchison	North Sea
Conoco Phillips	Pickerill Gas Terminal	UK
Conoco Phillips	Viking	North Sea
Devon Energy (Prosafte)	Polvo FPSO	Brasil Offshore
Dolphin Energy	Dolphin	Qatar
DONG	Cecille & Nini	North Sea
DONG	Nini	North Sea
Encana	Buzzard	North Sea

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## Project History



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Operator	Project Name	Location
Encana	Deep Panuke	Canada Offshore
Encana	Ross FPSO	North Sea (UK)
ENI	ABO FPSO	Nigeria Offshore
ENI	Aquila FPSO	Adriatic Sea
ENI	Black Tip	Australia Offshore
ENI	El - Bouri	Mediterranean
ENI	Goliat	Barents Sea
ENI	Kashagan	Caspian Sea
ENI	West Libya Gas (WAFA)	Libya
ExxonMobil	Balder	North Sea
ExxonMobil	Jotun	North Sea
ExxonMobil	Lawit	Malaysia
ExxonMobil	Ringhorne	North Sea
ExxonMobil	Bacton Terminal	UK
ExxonMobil	Beryl	North Sea
ExxonMobil	Coryton Terminal	UK
ExxonMobil	Erha FPSO	Nigeria Offshore
ExxonMobil	Kizomba FPSO	Angola Offshore
ExxonMobil	Sable	Canada Offshore
ExxonMobil	Sage Terminal	UK
ExxonMobil	Sakhalin I	Sakhalin, Russia
ExxonMobil	Statfjord	North Sea
ExxonMobil (SBM)	FPSO Xikomba	Angola Offshore
Gazprom	Sakhalin II	Sakhalin, Russia
Gazprom (Sevmorneftegaz)	Prirazlomnoye	Russia
HESS	South Arne	Denmark Offshore
HESS	Triton	North Sea
Hibernia	Hibernia	Canada Offshore
Hoan Long JOC	Te Giac Trang	Vietnam
Husky	White Rose FPSO	Canada Offshore
ICOFC	Cheshme Khosh Phase II	Iran
ICOFC	Maleh - Koh	Iran
ICOFC	Naft Shahr	Iran
ICOFC	Tehran Shine	Iran
IOEC	Nar	Iran
Iranian Offshore Oil Co.	Reshadat Field I.O.O.C.	Iran

## Project History



MAJOR PROJECT SUCCESS		
Operator	Project Name	Location
Karachaganak Int.Org	Karachaganak	Kazakhstan
Maersk	Gryphon	North Sea
Maersk	Al Shaheen	Qatar
Maersk	Brae	Denmark Offshore
Maersk	Dagmar	Denmark Offshore
Maersk	Dan	Denmark Offshore
Maersk	Halfdan	Denmark Offshore
Maersk	Harald	Denmark Offshore
Maersk	Gorm	Denmark Offshore
Maersk	Kraka	Denmark Offshore
Maersk	Roar	Denmark Offshore
Maersk	Skjold	Denmark Offshore
Maersk	Svend	Denmark Offshore
Maersk	Tyra	Denmark Offshore
Maersk	Valdemar	Denmark Offshore
Maersk	FPSO TI ASIA (Al Shaheen Field)	Qatar
Marathon	Alba	Equatorial Guinea
Marathon	Brae	North Sea
Modec (Petrobras)	FPSO Cidade de Angra dos Reis MV22	Brasil Offshore
Modec (Petrobras)	FPSO Cidade de Mangaratiba MV24	Brasil Offshore
Modec (Petrobras)	FPSO Cidade de Niteroi	Brasil Offshore
Modec (Petrobras)	FPSO Cidade de Rio de Janeiro	Brasil Offshore
Modec (Petrobras)	FPSO Cidade de Sao Paulo MV23	Brasil Offshore
Modec (Shell)	Fluminense FPSO, Bijuipira Salema	Brasil Offshore
Moss Gas	Mossel Bay	South Africa
Murphy	FPSO Kikeh	Malaysia Offshore
NAM	K11-FA-1	Holland Offshore
NAM	K14-FA-1C	Holland Offshore
NAM	K15-B	Holland Offshore
NAM	K15-FA-1	Holland Offshore
NAM	K18-FA-2	Holland Offshore
NEXAN	Golden Eagle	North Sea
NIOC	Aghar / Dalan	Iran
NIOC	AOD	Iran
NIOC	Azadagan	Iran
NIOC	Darqan	Iran

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## Project History



MAJOR PROJECT SUCCESS		
Operator	Project Name	Location
NIOC	Kangan	Iran
NIOC	Salman	Iran
NIOC	Sarkan	Iran
NIOC	South Pars All Phases	Iran
NIOC	West Paydar	Iran
NIOC	Yadavaran	Iran
ONGC	Bombay High	India Offshore
ONGC	Heera	India Offshore
ONGC	Mazagon	India
PEMEX	Cantarell	Mexico Offshore
PDVSA	Hamaca	Venezuela
Petro-Canada	Terra Nova FPSO	Canada Offshore
Petrobras	P-43 FPSO	Brasil Offshore
Petrobras	P-45 FPSO	Brasil Offshore
Petrobras	P-50 FPSO	Brasil Offshore
Petrobras	P-51 Platform	Brasil Offshore
Petrobras	P-52 Platform	Brasil Offshore
Petrobras	P-53 FPSO	Brasil Offshore
Petrobras	P-54 FPSO	Brasil Offshore
Petrobras	P-55 Platform	Brasil Offshore
Petrobras	P-57 FPSO	Brasil Offshore
Petrobras	P-58 FPSO	Brasil Offshore
Petrobras	P-62 FPSO	Brasil Offshore
Petrobras	P-63 FPSO	Brasil Offshore
Petrobras	FPSO Vitoria, Gulfinho Module 2	Brasil Offshore
Petrobras	Manati, Camamu	Brasil Offshore
Petrobras	Merluza	Brasil Offshore
Petrobras	Mexilhao, PMXL-I	Brasil Offshore
Petrobras	Peroa-Cangoa, Camamu-Almada	Brasil Offshore
Petrobras	PRA-I	Brasil Offshore
Petrobras (MODEC)	FPSO Cidade de Angra dos Reis MV22	Brasil Offshore
Petrobras (MODEC)	FPSO Cidade de Ilhabela	Brasil Offshore
Petrobras (MODEC)	FPSO Cidade de Mangaratiba MV24	Brasil Offshore
Petrobras (MODEC)	FPSO Cidade de Niteroi	Brasil Offshore
Petrobras (MODEC)	FPSO Cidade de Pirati	Brasil Offshore
Petrobras (MODEC)	FPSO Cidade de Rio de Janeiro	Brasil Offshore

MAJOR PROJECT SUCCESS		
Operator	Project Name	Location
Petrobras (MODEC)	FPSO Cidade de Sao Paulo MV23	Brasil Offshore
Petrobras (Prosafe)	FPSO Cidade de Sao Mateus	Brasil Offshore
Petrobras (SBM)	FPSO Brasil	Brasil Offshore
Petrobras (SBM)	FPSO Capixaba	Brasil Offshore
Petrobras (SBM)	FPSO Espadarte	Brasil Offshore
Petrobras (SBM)	FPSO Marlim Sul	Brasil Offshore
Petrobras (Seven Marine)	FPSO Piranema	Brasil Offshore
Petrobras (Teekay Petrojarl)	FPSO Tiro Sidon	Brasil Offshore
Petronas	Angsi	Malaysia
Petronas	Cendar	Malaysia Offshore
Petronas	Malong	Malaysia Offshore
Petronas	Sumandak	Malaysia
Petronas	Tiga	Malaysia Offshore
Petronas	Kumang & Tangga Barat Cluster	Indonesia
Petro-Vietnam	Hai Thach Moc Tinh	Vietnam
Premier Oil	AGX Gas Export	Indonesia
PTTEP	Arthit	Thailand Offshore
PTTEP	Bongkot	Thailand Offshore
QGPC	Arab	Qatar
QGPC	Diyab	Qatar
QGPC	Dukham	Qatar
QGPC	Khatiyah	Qatar
Ras Laffan LNG Co.	Ras Laffan LNG	Qatar
ROC Oil	Cliff Head	Australia Offshore
Saga	Snorre	North Sea
Sakhalin Energy	Sakhalin	Sakhalin, Russia
Saudi Aramco	Khuff	Saudi Arabia
Saudi Aramco	Safaniya GOSP	Arabian Gulf
SBM (Chevron)	FPSO Frade	Brasil Offshore
SBM (ExxonMobil)	FPSO Xikomba	Angola Offshore
SBM (Murphy)	FPSO Kikeh	Malaysia Offshore
SBM (Petrobras)	FPSO Espadarte	Brasil Offshore
SBM (Petrobras)	FPSO Brasil	Brasil Offshore
SBM (Petrobras)	FPSO Capixaba	Brasil Offshore
SBM (Petrobras)	FPSO Marlim Sul	Brasil Offshore
SBM (Shell)	FPSO Espirito Santo	Brasil Offshore

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Operator	Project Name	Location
Seven Marine	FPSO Piranema	Brasil Offshore
Shell	Auk	North Sea
Shell	Bacton Terminal	UK
Shell	Belema	Nigeria Offshore
Shell	Bonga FPSO	Nigeria Offshore
Shell	Brent	North Sea
Shell	Brigatine	North Sea
Shell	Cleaver	North Sea
Shell	Cormorant	North Sea
Shell	Curlew	North Sea
Shell	Draugan	North Sea
Shell	Dunlin	North Sea
Shell	EA FPSO	Nigeria Offshore
Shell	Eider	North Sea
Shell	Fulmar	North Sea
Shell	Gabon	Nigeria Offshore
Shell	Gannet	North Sea
Shell	Goldeneye	North Sea
Shell	Haven	UK
Shell	Kingfisher	North Sea
Shell	Kittiwake	North Sea
Shell	Leman	North Sea
Shell	Nelson	North Sea
Shell	Pearl GTL	Qatar
Shell	Pelican	North Sea
Shell	Penguins	North Sea
Shell	Sakhalin II	Sakhalin, Russia
Shell	Shearwater	North Sea
Shell	Sole Pit	North Sea
Shell	Tern	North Sea
Shell Brunei	CWWJ2	Brunei
Shell Brunei	CWWJ3	Brunei
Shell (MODEC)	Fluminense FPSO, Bijupira Salema	Brasil Offshore
Shell PDO	Birba	Oman
Shell PDO	Harweel Cluster	Oman
Shell PDO	Quarm Alam MPS	Oman

MAJOR PROJECT SUCCESS		
Operator	Project Name	Location
Shell PDO	Saih Nihayda	Oman
Shell PDO	Yibal	Oman
Shell Sarawak	BYG-A	Malaysia
Shell Sarawak	D35-DPA	Malaysia
Shell Sarawak	D35-DPB	Malaysia
Shell Sarawak	M1	Malaysia
Shell (SBM)	Espirito Santo FPSO	Brasil Offshore
Shell Todd	Pohokura	New Zealand Offshore
Shiraz Petrochemical	Shiraz Petrochemical	Iran
Sonatrach	Arzew	Algeria
Sonatrach	Gassi Touil	Algeria
Sonatrach	In Salah	Algeria
Sonatrach	Rhourde Ouled Dejmaa (ROD)	Algeria
Statoil	Asgard	North Sea
Statoil	Fram	North Sea
Statoil	Garn West	North Sea
Statoil	Gjoa	North Sea
Statoil	Kristin	North Sea
Statoil	Langusund Chemical	Norway
Statoil	Methanol Plant	Norway
Statoil	Morvin	Norway
Statoil	Njord	Norway
Statoil	Norne	Norway
Statoil	Ormen Lange	Norway
Statoil	Oseberg	North Sea
Statoil	Snoehvit	Norway
Statoil	Statfjord	North Sea
Statoil	Troll Olje	North Sea
Statoil	Vega	Norway
Statoil	Veslefrikk	North Sea
Statoil	Vigdis	North Sea
Statoil	Visund	North Sea
Statoil	Volve	Norway
Sun Oil	Balmoral	North Sea
Talisman	Bleo Holm FPSO	North Sea
Talisman	Bunga Orchid	Malaysia Offshore

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Total	AKPO FPSO	Nigeria Offshore
Total	Al Kalij	Qatar
Total	Amenam / Kpono FPSO	Nigeria Offshore
Total	Balal	Iran
Total	Broom	North Sea
Total	Bongkot	Thailand Offshore
Total	Claymore	North Sea
Total	Dalia FPSO	Angola Offshore
Total	Dunbar	North Sea
Total	Elgin Franklin	North Sea
Total	Flotta Terminal	UK
Total	Frigg	North Sea
Total	Girassol FPSO	Angola Offshore
Total	Kharyaga	Russia
Total	Lille Frigg	North Sea
Total	Moho Bilondo FPSO	Congo Offshore
Total	North Alwyn	North Sea
Total	Ofon	Nigeria Offshore
Total	Pazflor FPSO	Angola Offshore
Total	Peciko	Indonesia Offshore
Total	Piper B	North Sea
Total	Rospo Mare	Mediterranean
Total	St Furgus Terminal	UK
Total	Saltire	North Sea
Total	Scapa	North Sea
Total	Sincor	Venezuela
Total	Sisi Nubi	Indonesia Offshore
Total	South Pars	Iran
Total	Tunu	Indonesia Offshore
Total	Usan FPSO	Nigeria Offshore
Total	Nuggets	North Sea
Woodside	Enfield / Laverda FPSO	Australia Offshore
Woodside	Otway	Australia Offshore
Woodside	Pluto LNG	Australia
Varyeganneftegas	Bakhilov	Russia
Vietsovetro	White Tiger	Vietnam Offshore

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**Quality Assurance**

All Bifold products are manufactured to a most stringent QA programme to ensure that every product will give optimum performance and reliability. We are third party certified to EN ISO 9001:2008. Functional test certificates, letter of conformity and copies of original mill certificates, providing total traceability are available on request, to BS EN 10204.3.1.8 where available. We reserve the right to make changes to the specifications and design etc., without prior notice.

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**Accuracy of Information**

We take care to ensure that product information in this catalogue is reasonably accurate and up-to-date. However, our products are continually developed and updated so to ensure accurate and up-to-date information please refer to the product catalogue issue list on our web site or contact a member of our sales team.

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**UK Office**  
Bifold Fluidpower Ltd  
Greenside Way,  
Middleton, Manchester,  
M24 1SW. UK.  
Tel: +44 (0) 161 345 4777  
Fax: +44 (0) 161 345 4780  
Email: [marketing@bifold.co.uk](mailto:marketing@bifold.co.uk)  
Web: [www.bifold.co.uk](http://www.bifold.co.uk)

Marshalsea Hydraulics Limited  
Marshalsea House, Venture Way  
Priorswood Industrial Estate  
Taunton, Somerset, TA2 8DE. UK.  
Tel: +44 (0) 1823 331081  
Fax: +44 (0) 1823 323382  
Email: [info@marshalsea.co.uk](mailto:info@marshalsea.co.uk)  
Web: [www.bifold.co.uk](http://www.bifold.co.uk)

**USA Office**  
Bifold Fluidpower Ltd  
11490 Westheimer,  
Suite 850,  
Houston, TX, 77077.  
Tel: +1 (713) 783 4253  
Fax: +1 (713) 783 0067  
Email: [marketing@bifold.co.uk](mailto:marketing@bifold.co.uk)  
Web: [www.bifold.co.uk](http://www.bifold.co.uk)

**Singapore Office**  
Bifold Fluidpower Ltd  
Toa Payoh Industrial Park,  
Lorong 8 #07-1475,  
Singapore, 3109075.  
Tel: +65 6735 1323  
Fax: +65 6735 1367  
Email: [marketing@bifold.co.uk](mailto:marketing@bifold.co.uk)  
Web: [www.bifold.co.uk](http://www.bifold.co.uk)

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