

Wellhead Controls



A comprehensive range of
316 Stainless Steel products
and circuit components



ITT
Engineered for life

PNEUMATIC CIRCUIT COMPONENTS

Manual Push/Pull 3/2

1/4" NPT, 3/2 and 5/2, manually operated, suitable for panel mounting. Spring return, detent or latching models available.

Meets NACE standards, with all stainless steel internals and Viton seals as standard.



Visual Indicator

1/4" NPT, 3/2 pad operated spring return, pilot latch and fitted with a visual indicator.



Air Pilot

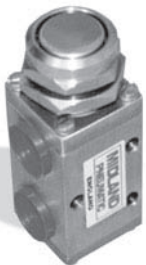
1/4" NPT ports, 3/2 and 5/2 pilot operated valves.

Non-lube, meets NACE standards with all stainless steel internals.



Shrouded 3/2 Pilot Valve

1/4" NPT, 3/2 and 5/2, guarded button, manually operated. Panel mounting, NACE and Viton seals as standard.



Needle Valves

1/4", 3/8" and 1/2" NPT units complete with free flow check valve which controls the flow in one direction and full flow in the other direction.



Shuttle & Quick Exhaust Valves

1/4", 3/8" and 1/2" NPT ports for use with gases and low-pressure liquids and NACE approved.



Solenoid Operated

1/4" NPT ports, 3/2 and 5/2 solenoid valves, UL, CSA and ATEX approved. Pilot operated or direct acting models available with lightweight Viton seals as standard.



Relief Valves

1/4" and 1/2" NPT units with a pressure range of 7-12 bar (100 - 175 psi) with stainless steel construction and Viton seals as standard.



Flow Control Valves

1/4", 3/8" and 1/2", 3mm and 6mm orifice models. NACE approved for use with gases and low-pressure liquids.



Check Valves

1/4", 3/8" and 1/2" NPT ports, with 12 and 15 bar working pressure models. Controls air and gases. Available in NACE standard.



Air Preparation

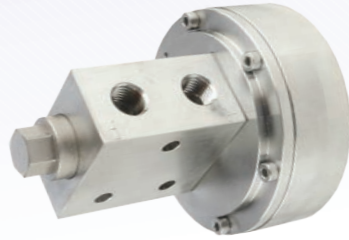
1/4" and 1/2" NPT ports with manual or automatic drain. Also available as regulators or filters. 40 micron elements (5 micron optional). NACE standard with Viton seals and internal spring.



Certification Options Available



HYDRAULIC CIRCUIT COMPONENTS



DN5 Hydraulic Interface Valve

- Specifically designed for Severe Offshore Environments
- ATEX 94/9/EC
- M.T.B.F., Lambda and SIL Data (Available upon request)
- Easy Installation, Repair and Replacement
- 316 Stainless Steel construction
- 3 Ports, 2 Positions, Normally Closed
- 690 bar Max Operating Pressure
- Ambient Temperature Range -50°C to +60°C
- Block Before Bleed Function
- Leak tight
- 15 litres/min



High Pressure Down Hole Control Valves

- Certified for Zone 1, Division 1 Hazardous Areas
- ATEX 94/9/EC
- Operating pressures up to 1,140 bar (16,500 psi)
- 3 port, 2 positions, normally closed, spring autoreset.
- Hydraulic pilot operated, range 210 to 690 bar
- Ambient temperature range -20° to +60° C
- 316 stainless steel construction for severe environments
- Flowrates up to 2 l/min (0.5 gpm)
- Suitable for mineral oil, synthetic and water glycol fluids
- Suitable for subplate or multi-station manifold mounting
- Can be solenoid pilot valve operated



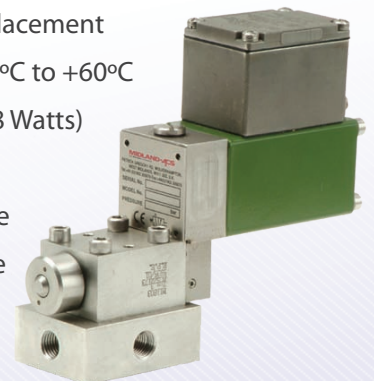
Hydraulic Interface Valve Options

- Suitable for pressures up to 690 bar
- Gas or hydraulic pilot logic signals,
- Solenoid operated via integral mounted pilot valve with the following coils
- Certified for Zone 1, Class 1 Hazardous Areas
- ATEX 94/9/EC
- Manual lever operated, auto reset or detented
- Manual resets
- Proximity sensors EExia (intrinsically safe) for remote open/ closed indication

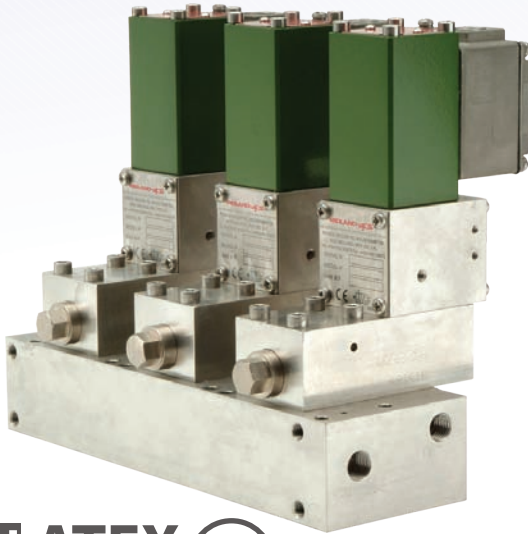


DN Series of Hydraulic Valves

- Specifically designed for Severe Offshore Environments
- Certified for Zone 1, Division 1 Hazardous Areas
- ATEX 94/9/EC
- M.T.B.F., Lambda and SIL Data (Available upon request)
- Easy Installation, Repair and Replacement
- Ambient Temperature Range -50°C to +60°C
- Low Power Consumption (3.5 & 8 Watts)
- 316 Stainless Steel Construction
- Wide range of operators available
- 1140 bar Max Operating Pressure
- Leak tight
- Upto 200 litres/min (45gpm)
- 2/2, 3/2, 4/2, & 4/3, functions available



MULTI-STATION MANIFOLD SYSTEMS



Wellhead Control - Multi-Station Manifold Systems

- Minimises pipework, fitting and potential leaks
- ATEX solenoid and pilot operated
- 316 Stainless Steel construction
- 1140 bar working pressure
- Reduced system costs
- Easy to maintain
- Compact envelope space savings
- Control circuits tailored to suit your specification
- Cartridge component technology for flow, check, relief and isolation valves.
- Flowrates up to 200 l/min (45 gpm)
- Additional stations can be added for chemical injection and future slots



Hydraulic Solenoid Valves for Work Over Control Systems

- Low Powered, Dual Solenoid, Bi-stable, Pulse operated, Hydraulically latched.
- Specifically designed to conserve electrical power.
- Ideal for Solar or Battery backup powered control systems
- Requires a one second voltage pulse to open or close. No electrical power required to hold valve in the latched open position.
- Zone 1, Class 1
- 3/2, normally closed, spring autoreset on loss of hydraulic supply.
- Block before bleed function
- Leaktight seats
- Ingress protection IP66
- Ambient temperature range – 20° to + 60° C
- Low Power consumption <1 watt (EExia), 1.5, 3.5 & 8.0 watts
- 316 stainless steel construction for severe environments
- Operating pressures up to 710 bar
- Flowrates up to 40 l/min
- Suitable for sub-plate or multi-station manifold mounting



QUALITY ASSURANCE

The quality assurance team has been challenged to maintain and develop the key processes that help the organisation surpass customer expectations, achieve its business goals and maintain compliance with ISO 9001:2000. Alongside management's intent is to apply, develop and promote key principles throughout the organisation, as well as continually improve the effectiveness of the Quality Management System, it also supports industry standards including ATEX and PED. Investments in skills and technology, such as a Faro Gauge has ensured progress in terms of customer focus. Key performance indicators and related information is analysed to determine what action is necessary to achieve planned results. Dedicated quality resource is available to provide real time customer support and all issues are managed to ensure a timely and accurate response.



ENGINEERING & MANUFACTURING CAPABILITIES

From our UK base we are well equipped to provide a comprehensive range of engineering and manufacturing. With 15% of our staff being highly skilled engineers, they utilise up to date technology and methods, to design and engineer bespoke solutions for a wide range of applications which are then manufactured with quality and longevity in mind.

Engineering

- 3D solid modelling using Solidworks
- 2D draughting
- Auto CAD
- Fast CAD

Manufacturing

- CNC milling & turning
- 2 tonnes craneage/lifting capacity
- Product assembly
- Digital lead testing
- Solenoid Performance testing
- Faro Arm - multi position inspection

Product testing

- Cryogenic to elevated temperatures
- Pressure - 0 to 210 bar (gas)
0 to 1000 bar (15,000 psi) (fluid)
- Data logged cycle testing
- SIL (Safety Integrity Level) Analysis
- Certification – ATEX (non-electrical)
PED (certification)



United Kingdom Headquarters

Midland-ACS

Patrick Gregory Road,
Wolverhampton, WV11 3DZ
United Kingdom

Tel: +44 (0)1902 305678

Fax: +44 (0)1902 305676

Email: midland-acs@itt.com

North American Headquarters

Midland-ACS North America

P.O. Box 422, Ontario

L3M 4H8, Canada

Tel: (905) 309-1834

Fax: (905) 309-1835

Email: rjthake@aol.com

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