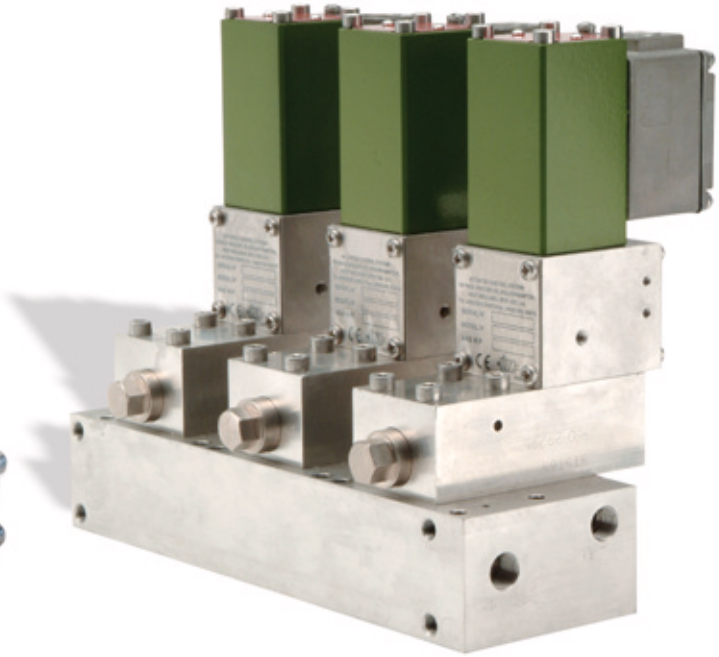
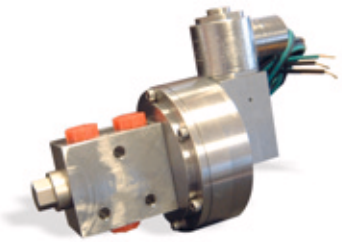




VALVE EXPERTS FOR WELLHEAD CONTROL

A COMPREHENSIVE RANGE OF 316 STAINLESS STEEL PRODUCTS AND CIRCUIT COMPONENTS

ATEX

PNEUMATIC/LOW-PRESSURE HYDRAULIC CONTROL PACKAGES

316 Stainless Steel Construction

In One of These Applications

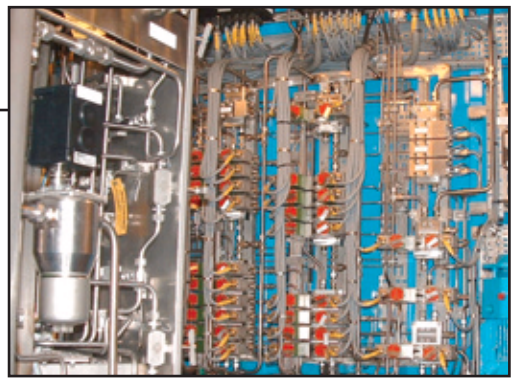


Photo courtesy of: Advantec Norway, Kristin WOCS

Are All of These Midland-ACS Product Solutions

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.

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.

AIR PILOT

1/4" NPT ports, 3/2 and 5/2 pilot opertated valves. Non-lube, meets NACE standards with all stainless steel internals.

VISUAL INDICATOR

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

SOLENOID OPERATED
UL/CSA/ATEX

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.

AIR PREPARATION
Filter/Regulator Combination

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.

FLOW CONTROL 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.

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.

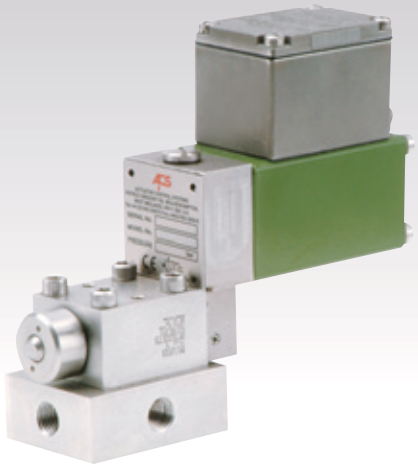
SHUTTLE VALVES & QUICK EXHAUST VALVES

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

NEEDLE VALVES

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

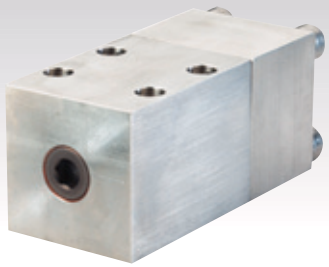
HYDRAULIC VALVES
Solenoid Valve



Features:

- EExme II T4/T6
- EExd/e IIb T4/T6
- EExia IIC T6
- Zone 1, Class 1
- Baseefa, UL/CSA, ATEX
- 2/2, 3/2, 4/2, & 4/3, functions available
- Leaktight seats
- Ingress protection IP66
- Ambient temperature range – 50° to + 60° C
- Power consumption <1watt (EExia),1.5, 3.5 & 8.0 watts
- 316 stainless steel construction for severe environments
- Operating pressures up to 690 bar (10,000 psi)
- Flowrates up to 200 l/min (50 gpm)
- Suitable for mineral oil, synthetic and water glycol fluids
- Suitable for subplate or multi-station manifold mounting

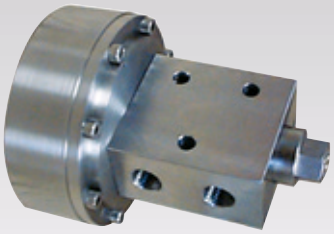
HIGH PRESSURE
Down Hole Control Valves



Features:

- ***Operating pressures up to 1,140 bar (16,500 psi)***
- 3 port, 2 positions, normally closed, spring autoreset
- Hydraulic pilot operated, with a range of 210 to 690 bar (10,000 psi)
- 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 with the following coils:
  - EExme II T4/T6
  - EExd/e IIb T4/T6
  - EExia IIC T6
  - Zone 1, Class 1
  - Baseefa, UL/CSA, ATEX

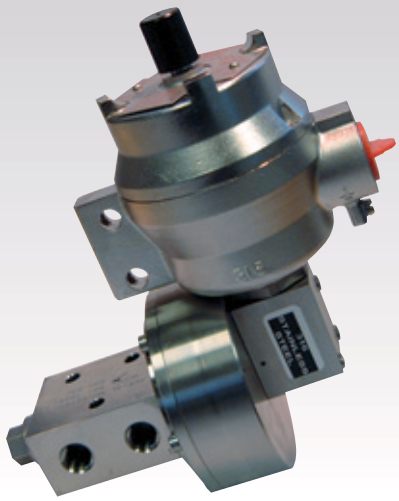
HYDRALIC INTERFACE
Dump Valve



Features:

- 3 port, 2 positions, normally closed, spring autoreset
- Leaktight seats
- Ingress protection IP66
- Block before bleed function
- Air/gas pilot signal range 2 to 12 bar (29 to 174 psi)
- Ambient temperature range –20° to +60° C (-23° to +284° F)
- 316 stainless steel construction for severe environments
- Operating pressures up to 690 bar (10,000 psi)
- Flowrates up to 15 l/min, at 10 bar DP, CV= 0.33
- Ports 1/4" NPTF
- Suitable for mineral oil, synthetic and water glycol fluids
- Suitable for in-line, subplate or multi-station manifold mounting

HYDRAULIC INTERFACE
Dump Valve Options



Features:

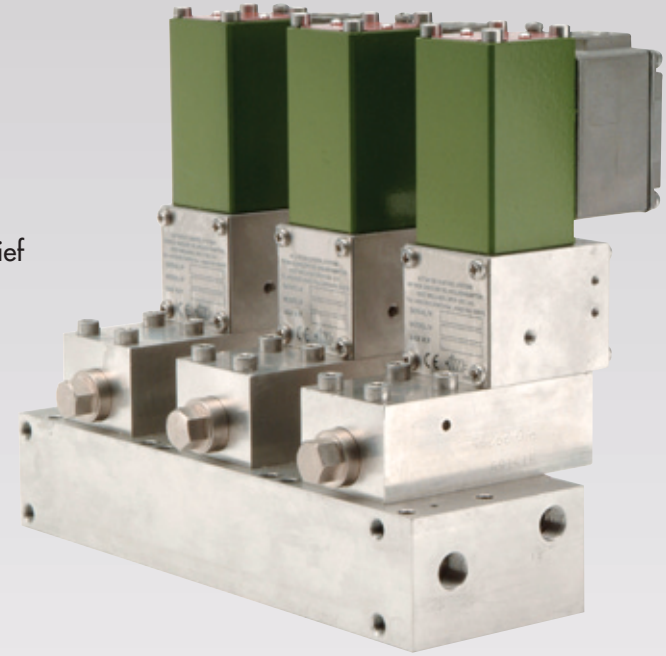
The standard interface/dump valve can be supplied with the following options and features.

- Mainstage suitable for Gas up to 100 bar (1,450 psi)
- Gas or hydraulic pilot signals,
  - Gas signal up to 100 bar (1,450 psi)
  - Hydraulic signal up to 690 bar (10,000 psi)
- Solenoid operated via integeral mounted pilot valve with the following coils:
  - EExme II T4/T6
  - EExd/e IIb T4/T6
  - EExia IIC T6
  - Zone 1, Class 1
  - Baseefa, UL/CSA, ATEX
- Manual lever operated, autoreset or detented
- Manual resets
- Proximity sensors EExia (intrinsically safe) for remote open/closed indication

MULTI-STATION MANIFOLD SYSTEMS

Manifolded solutions provide the following benefits :

- Reduction in systems costs
- Installation labour savings
- Compact envelope space savings
- Minimises pipework, fittings and potential leaks
- Easy to maintain, reduction in downtime
- Control circuits tailored to suit your specification
- Cartridge component technology for flow, check, relief and isolation valves
- System pressures up to 1,140 bar (16,500 psi)
- Flowrates up to 200 l/min (50 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
- Only requires a one second voltage pulse of power to open or close, no electrical power required to hold valve in the latched open position
- EExme II T4/T6
- EExd/e IIb T4/T6
- EExia IIC T6
- Baseefa, UL/CSA, ATEX
- 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 (10,300 psi)
- Flowrates up to 40 l/min (10 gpm)
- Suitable for mineral oil, synthetic and water glycol fluids
- Suitable for subplate or multi-station manifold mounting