Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product rangerepresenting leading technologies & brands:

**Flow:** Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

**Temperature:** Temperature Probes & Thermowells, Temperature transmitters, Temperature Regulators & Temperature Displays

**Level:** Level Transmitters & Switches

**Pressure:** Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

**Precision Pneumatics:** Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

**Valves:** Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

**Services:** Repair, Calibration, Panel Build, System Design & Commissioning
DN2 SERIES IECEx
HYDRAULIC SOLENOID PILOT VALVE

• Specifically designed for Severe Offshore Environments
  • Certified for Zone 1 Hazardous Areas
    • IECEx BAS.070029x
  • M.T.B.F., SFF, PFD and SIL Data (Available upon request)
    • Easy Installation, Repair and Replacement
  • Ambient Temperature Range -20°C to +80°C
    • Low Power Consumption (3.5 & 8 Watts)
  • 316 Stainless Steel Construction
  • Wide range of operators available
  • 690 bar Max Operating Pressure
    • Leak tight
    • 1 litre/min

General Description
The DN2 Cartridge Insert System replaces conventional ball-seated type internals, typically characterised by small individual components and require a certain level of expertise and a suitably clean environment in which to carry out their replacement. The new one-piece Poppet Cartridge Insert System simplifies replacement and considerably reduces repair costs.

The DN2 valve itself features an ‘O’ ring interface that enables it to be fitted with a 1/4” NPT ported subplate as standard, or manifold mounted for use in wellhead control applications. This interface also allows direct mounting of the DN2 valve to larger pilot-operated DN5 and DN10 valves, whereby increasing the flow capacity up to 40L/min. (Please consult factory for further information).

By removing just 4 bolts the valve can be dismounted without disturbing pipework and possibly contaminating the hydraulic system. Blanking or flushing plates can also be supplied.
Ambient Temperature Range
- Standard: -20°C to +60°C (-4°F to +176°F)
- Low temperature option: -50°C (-58°F)

Ingress Protection
- IP67

Filtration
- Recommended 10 micron absolute

Construction Materials
- Valve bodies and subplates: 316L Stainless Steel
- Wetted parts: various grades of stainless steel/ceramic
- Fasteners: A4, grade 80 stainless steel
- Springs: stainless steel

Protection Class
- Exd IIC T6 at 60°C

Power Consumption
- 3.5 & 8 watts

Operating Pressure Range
- 0 to 690 bar depending on operator type

Operating Medium
- Fluids - Suitable for use with Mineral Oils, Water Glycols and Synthetic fluids

Weight (approximate)
- 4.0 kgs
DN2 SERIES IECEX
SCHEMATICS

CERTIFICATION OPTIONS AVAILABLE

TORQUE CAP HEAD SCREWS TO 6N/M