

# FINE CONTROLS (UK) LTD



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 range representing 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

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**bürkert**



**SIEMENS**



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SOLENOID VALVES

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## DN2 SERIES CARTRIDGE HYDRAULIC SOLENOID PILOT VALVE



- Specifically designed for Severe Offshore Environments
- Certified for Zone 1, Class 1 Hazardous Areas
- ATEX 94/9/EC
- M.T.B.F., SFF, PFD and SIL Data (Available upon request)
- Easy Installation, Repair and Replacement
- 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

### CERTIFICATION OPTIONS AVAILABLE



### 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 one-piece Poppet Cartridge Insert System simplifies replacement and considerably reduces repair costs with no special tools required.

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 dismantled without disturbing pipework and possibly contaminating the hydraulic system. Blanking or flushing plates can also be supplied.

## **DN2 SERIES CARTRIDGE HYDRAULIC SOLENOID PILOT VALVE**

### Ambient Temperature Range

- Standard: -20°C to +60°C (-4°F to +140°F)
- Low temperature option: -50°C (-58°F)

### Ingress Protection

- IP66/NEMA 4X

### 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

- EExia IIC T6
- EExd IIC T6
- EExme II T6
- EExme II T4
- Exd IIC T5

### Power Consumption

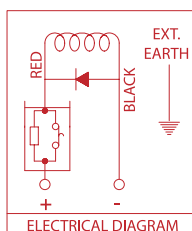
- 3.5 & 8 watts

### Operating Pressure Range

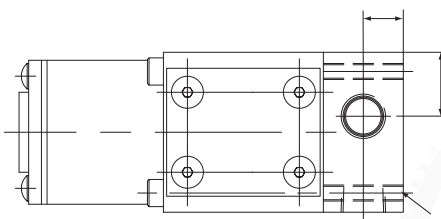
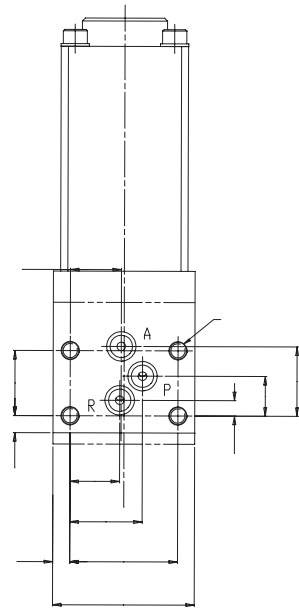
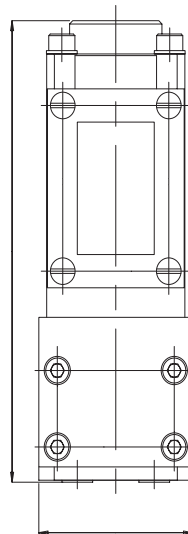
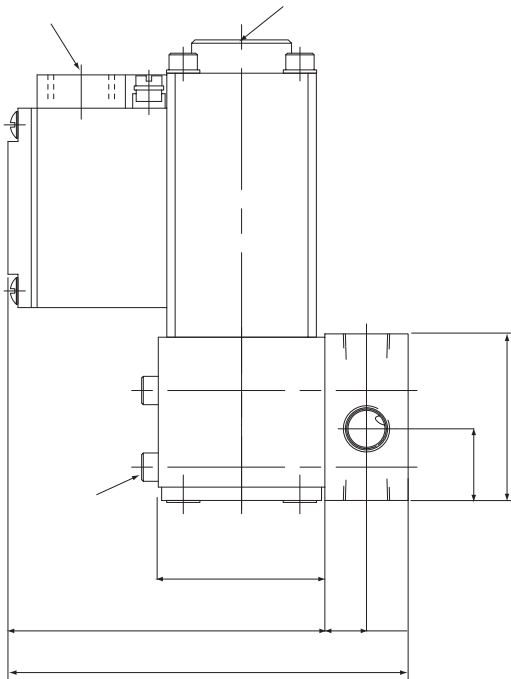
- 0 to 690 bar depending on operator type

### Operating Medium

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



## DN2 SERIES CARTRIDGE SCHEMATICS



3/2 'O' Ring Interface  
Weight 2.6kg

PORT	DIA	'O' RING
P	5.0	9.25 x 1.78
A AND R	5.0	8.0 x 1.5

CERTIFICATION OPTIONS AVAILABLE

