

Fig.1932
Pressure Independent Control Valve

FEATURES & BENEFITS

- Maintains equal percentage control characteristic at all flow rate settings
- Pressure independent control of flow
- Simple flow rate setting
- Adjustable over wide range of flow rates
- Activation DP 20-35kPa (DN40) and 25-35kPa (DN50) dependent on setting
- Integral test points for Dp verification



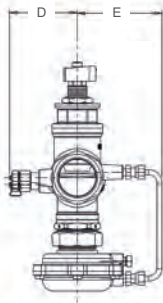
MATERIAL SPECIFICATION

| Component | Material | Specification |
|--------------------------|------------------|----------------------|
| Body | Bronze | BS EN 1982 (CC491K) |
| Regulating Bonnet | Bronze | BS EN 1982 (CC491K) |
| DP Bonnet | Bronze | BS EN 1982 (CC491K) |
| DP Chamber | Bronze | BS EN 1982 (CC491K) |
| P84 Pressure Test Points | DZR Brass | BS EN 12164 (CW602N) |
| Stem Spacer(Removable) | Acetal Copolymer | - |
| Diaphragm DP Chamber | Rubber EPDM | - |
| All O-Ring Seals | Rubber EPDM | - |

ACTUATOR

| Function | Voltage | Control Input | Stem Force | IP Rating |
|---|---------|---|------------|-----------|
| Equal Percentage Modulating (Settable to Linear response if required) | 24VAC | 0 to 10V 0 to 5V 5 to 10V 0 to 20mA 4 to 20mA | 500N | IP54 |

DIMENSIONAL DRAWINGS



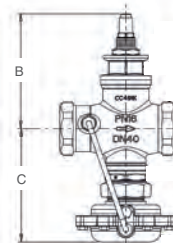
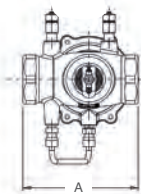
DIMENSIONS & WEIGHTS

| Fig. No Size (DN) | | 1932 DN40 | 1932 DN50 |
|-------------------|-------|-------------|-------------|
| A | mm | 137.1 | 161.4 |
| B | mm | 136.7 | 141.8 |
| C | mm | 134.9 | 143.5 |
| D | mm | 80.5 | 86.5 |
| E | mm | 100.5 | 100.5 |
| Valve weight | kg | 4.5 | 5.3 |
| Actuator weight | kg | 0.9 | 0.9 |
| Flow Range | (l/s) | 0.30 - 2.40 | 0.55 - 3.20 |

FLOW ACCURACY

| | 200kPa | 400kPa |
|-----------------|----------|----------|
| DN15-DN50 | +/-0.15% | +/-0.20% |
| DN15-DN50 + FMD | +/-0.10% | +/-0.15% |

Note: Total valve height including actuator is 400mm



PRESSURE/TEMPERATURE RATING

PN16
-10°C to 100°C
16 Bar (Max Operating Differential Pressure 4.0 bar)

OPERATING PRESSURE RANGE ACROSS VALVE (kPa):
35 - 400 (DN40 & DN50)

SPECIFICATION

The PICV shall have a constant control characteristic at all flow settings and control flow rates at differential pressures up to 400 kPa. Flow rates will be externally adjustable, and set point recordable. Integral test points will be fitted to verify setting pressure allowing pumps to be set at optimum speed to maximise energy savings. Shall be manufactured from Bronze, with Stainless Steel springs, and an EPDM diaphragm. Shall be rated to PN16 and operate at temperatures to 100°C. As Hattersley Fig.1932.

MEDIUM: Group 2 Liquids
END CONNECTIONS: BSP Female Taper to BS EN 10226
SPARES: Locking cap (for commissioning)

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131016