D931 / D933 / D934

Fixed Orifice Double Regulating Valve (FODRV)

Balance PN25

Features & Benefits

BALANCING VALVES

- D933 size 1/2" low flow FODRV combines the functions of regulation and flow measurement in a unit of high authority making it particularly suitable for low flow applications in the range of 0.03 to 0.07 l/s
- D934 size 1/2" ultra-low flow FODRV combines the functions of regulation and flow measurement in a unit of high authority making it particularly suitable for ultra-low flow applications in the range of 0.016 to 0.04 l/s.
- The Double regulating valve, with its integral fixed orifice design offers an accuracy of \pm 5% on all settings, for precise flow regulation and measurement
- The Double Regulating feature allows the valve to be used for isolation • and to be reopened to its pre-set position to maintain required flow rate
- Y-Pattern globe valves having characterised throttling disc tending towards equal percentage performance
- Integral square edged entrance orifice plate and P84 insertion test points fitted Double regulating feature allows valve opening to be set with an Allen key
- Operation of the valve is by means of the Microset handwheel

Materials

| PART | MATERIAL | SPECIFICATION |
|----------------|------------------|----------------------|
| Body | Bronze | BS EN 1982 CC491K |
| Bonnet | DZR Copper Alloy | BS EN 12165 CW602N |
| Stem | DZR Copper Alloy | BS EN 12164 CW602N |
| Disc | DZR Copper Alloy | BS EN 12164/5 CW602N |
| O-Ring Seal | EPDM Rubber | |
| Orifice Insert | DZR Copper Alloy | BS EN 12164 CW602N |
| P84 Test Valve | DZR Copper Alloy | BS EN 12164 CW602N |
| Handwheel | Plastic | |

Dimensions, Coefficients & Weights

| | | DIMENSIONS (mm) | | FULLY OPEN | | | |
|----------|------------|-----------------|-----|--------------|------------------|------|----------------|
| FIG. NO. | SIZE | А | В | FLOW (Kv) | HEAD LOSS (K) | KVS | WEIGHT (kg) |
| D931 | 1/2"/DN15 | 87 | 105 | 1.87 | 30.27 | 2.2 | 0.61 |
| | 3/4"/DN20 | 96 | 106 | 3.14 | 34.55 | 4.7 | 0.65 |
| | 1"/DN25 | 100 | 127 | 5.59 | 27.85 | 8.6 | 0.95 |
| | 11/4"/DN32 | 114 | 128 | 10.80 | 22.60 | 16.6 | 1.13 |
| | 11/2"/DN40 | 125 | 143 | 18.10 | 14.76 | 24.5 | 1.52 |
| | 2"/DN50 | 146 | 144 | 29.10 | 14.62 | 46.1 | 1.98 |
| D933 | 1/2"/DN15 | 87 | 105 | 1.06 | 94.20 | 1.1 | 0.61 |
| D934 | 1/2"/DN15 | 87 | 105 | 0.57 | 325.80 | 0.58 | 0.61 |

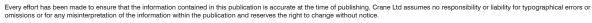
SPECIFICATION: Conforms to BS 7350*:1990

END CONNECTIONS: Sizes 1" to 2" taper threaded to BS EN 10226-2 (ISO 7-1) formerly BS 21.

Sizes 1/2" & 3/4" DN15 & DN20 BS 2779 (ISO 228) parallel. Adaptor kits for use with copper tube also available.

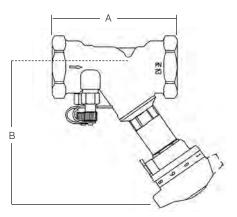
Also available threaded to ANSI B1.20.1AT.

Order code D931AT/D933AT/D934AT.





Dimensional Drawing



Pressure/Temperature Ratings

Threaded

| TEMPERATURE (°C) | -10 to 100 | 110 | 120 |
|------------------|------------|------|------|
| PRESSURE (BAR) | 25 | 23.4 | 21.8 |

Compression

| TEMPERATURE (°C) | -10 to 30 | 65 | 120 |
|------------------|-----------|----|-----|
| PRESSURE (BAR) | 16 | 10 | 5 |

Intermediate pressure ratings shall be determined by interpolation.

Maximum temperature 120°C.

Note: In line with BS EN 1254/2, the maximum pressure must not exceed 16 bar when using compression adaptors. WRAS approved -10 to 85°c

