

Fixed Orifice Double Regulating Valve (FODRV) D931/D933/D934 PN25

WRAS
APPROVED
PRODUCT

CRANE®

FLUID SYSTEMS

Threaded BSEN10226 formerly BS21 (ISO 7) for Single Unit Systems Conforms to BS7350*



Specification

Y-pattern globe valves having characterised throttling disk 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 hand wheel.

WRAS Approved.

End Connection

Sizes 1 to 2 BS EN 10266 (ISO 7) parallel

Sizes 1/2 & 3/4 DN15 & DN20 BS 2779 (ISO 228) parallel.

Adaptor kits for use with copper tube also available.

Also available threaded ANSI B1.20.1

Order code D931AT/D933AT/D934AT.

Application

This single unit-commissioning valve D931 is designed for installation in circuits where combined functions of regulation and flow measurement are required. Accuracy of flow measurement is $\pm 5\%$ across all hand wheel settings.

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.

Pressure/Temperature Ratings

Threaded

Temperature °C	-10 to 100	110	120
Pressure (Bar)	25	23.4	21.8

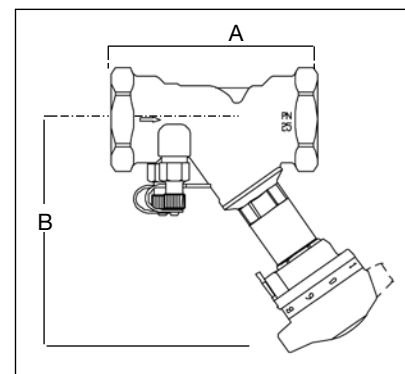
Note: In line with BS EN 1254/2 the maximum pressure must not exceed 16 bar when using compression adaptors.

Compression

Temperature °C	2 - 30	65	120
Pressure (Bar)	16	10	5

Intermediate pressure ratings shall be determined by interpolation.

Maximum temperature 120°C



Dimensions, Coefficients and Weights

Fig. No.	Nom. Size	Dimensions (mm)	Fully Open		KV's	Weight Kg
			Flow Kv	Head loss K		
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
	1 1/4 DN32	114 128	10.80	22.60	16.6	1.13
	1 1/2 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	325.8	0.58	0.61

*Except pressure rating exceeds BS

Materials

Part	Material	Specification	Part	Material	Specification
Body	Bronze	BSEN1982 CC491K	'O' Ring Seal	EPDM Rubber	
Bonnet	DZR copper alloy	BSEN12165 CW602N	Orifice Insert	DZR copper alloy	BSEN12164 CW602N
Stem	DZR copper alloy	BSEN12164 CW602N	P84 test valve	DZR copper alloy	BSEN12164 CW602N
Disc	DZR copper alloy	BSEN12164/5 CW602N	Hand Wheel	Plastic	