

MotoBalance DS981 / DS983 / DS984 Fixed Orifice Double Regulating Valve (FODRV) PN25



Features & Benefits

- Designed for installation in circuits where combined functions of actuated regulation and flow measurement are required
- Easy to adjust/set flow using graduated dial and setting key
- Tamperproof - once flow is set with key, it cannot be adjusted without key
- The DN15 valve is also available in low flow (DS983) and ultra-low flow (DS984). Dials are colour coded for easy identification:
 - DS981 - Standard Flow - White - 0.061 to 0.132 l/sec
 - DS983 - Low Flow - Yellow - 0.03 to 0.07 l/sec
 - DS984 - Ultra-Low Flow - Green - 0.016 to 0.04 l/sec
- P84 test points fitted enable accuracy of flow measurement of +/- 5% across all drive settings
- Profiled disc gives equal percentage flow control
- Y-Pattern globe valve
- Integral square edged entrance orifice plates
- Double regulating feature allows the valve to be used for isolation and to be reopened to its pre-set position to maintain required flow rates

Materials

NO.	PART	MATERIAL
1	Body	Bronze BS EN 1982 CC491K
2	Bonnet	DZR Brass BS EN 12164 CW602N
3	Stem	Stainless Steel BS EN 10088-3
4	Flow Setting Key	Nylon Grade PA6
5	P84 Pressure Tapping Point	DZR Brass BS EN 12164 CW602N
6	Orifice Insert	DZR Brass BS EN 12164 CW602N
7	Plug	DZR Brass BS EN 12164 CW602N
8	Disc	EPDM WRAS approved
9	Backing Washer	Stainless Steel BS EN 10088-3
10	O-Ring Retainer	DZR Brass BS EN 12164 CW602N
11	Crane Actuator (Optional Accessory)	N/A

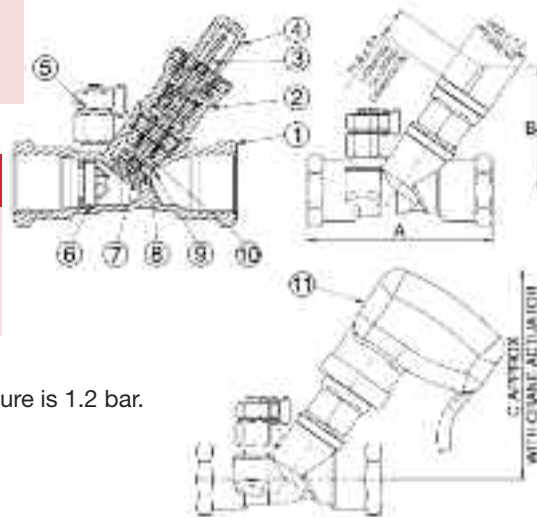


DS981



DS981 with Actuator

Dimensional Drawings



Dimensions & Weights

FIG. NO.	NOM SIZE	DIMENSIONS (mm)			FLOW (Kv)	HEAD LOSS (K)	KVs	WEIGHT (kg)
		A	B	C				
DS981	DN15	87	66	115	1.245	30.27	2.2	0.45
DS983	DN15	87	66	115	0.667	90.42	1.1	0.45
DS984	DN15	87	66	115	0.580	325.80	0.58	0.45
DS981	DN20	96	66	115	2.300	34.55	4.7	0.51

Pressure/Temperature Ratings

The maximum static pressure is 16 bar, the maximum differential pressure is 1.2 bar.

Threaded

TEMPERATURE (°C)	-10 to 100	110	120
PRESSURE (BAR)	25	14.8	13.5

Compression

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

Intermediate pressure ratings shall be determined by interpolation.

OPERATOR: MotoBalance should be fitted with an actuator. Modulating (ACT60M) and three-point Actuators (ACT50) are available from Crane Fluid Systems

END CONNECTIONS:

- Sizes DN15 & DN20 - parallel threaded to BS EN ISO 228-1 (formerly BS 2779)
- Threaded ANSI is also available. Please add suffix AT to denote American Thread
- When using compression adaptors, the maximum pressure must not exceed 16 bar (in line with BS EN 1254/2)

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