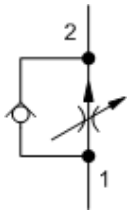
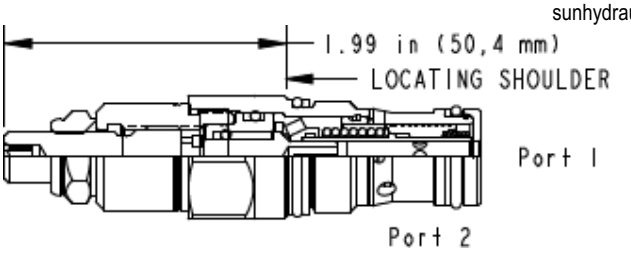
MODEL
FDBA

Fully adjustable pressure compensated flow control valve with reverse flow check

SERIES 1 / CAPACITY: 23 L/min. / CAVITY: T-13A

sunhydraulics.com/model/FDBA





CONFIGURATION

L	Control	Standard Screw Adjustment
B	Adjustment Range	.1 - 2 gpm (0,4 - 8 L/min.)
N	Seal Material	Buna-N
(none)	Material/Coating	

Fully adjustable, pressure-compensated flow controls with reverse-flow check provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations. They are infinitely adjustable from nearly closed up to the maximum flow. An integral high-capacity check valve provides unrestricted flow from port 2 to port 1.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-13A
Series	1
Capacity	23 L/min.
Maximum Operating Pressure	350 bar
Adjustment - No. of CCW Turns from Fully Closed to Fully Open	5
Valve Hex Size	22,2 mm
Valve Installation Torque	41 - 47 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990010007
Seal kit - Cartridge	EPDM: 990010014
Seal kit - Cartridge	Polyurethane: 990010002
Seal kit - Cartridge	Viton: 990010006
Model Weight	0.14 kg.

NOTES

For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

CONFIGURATION OPTIONS

Model Code Example: FDBALBN

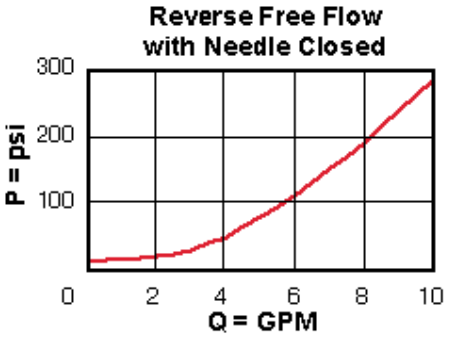
CONTROL (L)	ADJUSTMENT RANGE (B)	SEAL MATERIAL (N)	MATERIAL/COATING
L Standard Screw Adjustment	**B** .1 - 2 gpm (0,4 - 8 L/min.)	**N** Buna-N	Standard Material/Coating
H Calibrated Handknob with Detent Lock	**A** .1 - 6 gpm (0,4 - 23 L/min.)	**E** EPDM	**/AP** Stainless Steel, Passivated
K Handknob		**V** Viton	**/LH** Mild Steel, Zinc-Nickel
Y Tri-Grip Handknob			

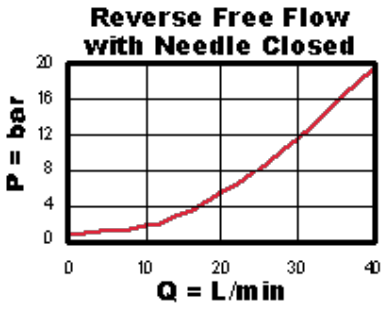
TECHNICAL FEATURES

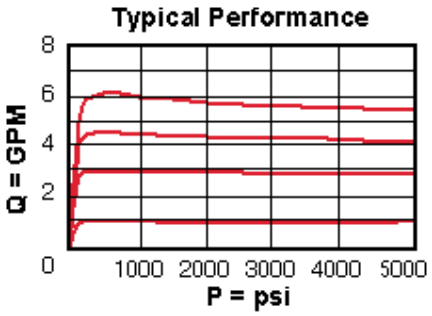
- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- A balanced adjustment mechanism allows for easy adjustment even at high pressures.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Minimum leakage is .1 gpm (0,4 L/min) when the adjustment mechanism is turned to the shut-off position.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.

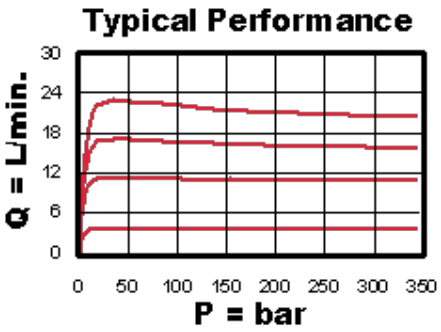
PERFORMANCE CURVES

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