

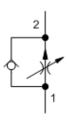
MODEL

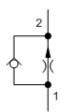
Fully adjustable pressure compensated flow control valve with reverse flow check

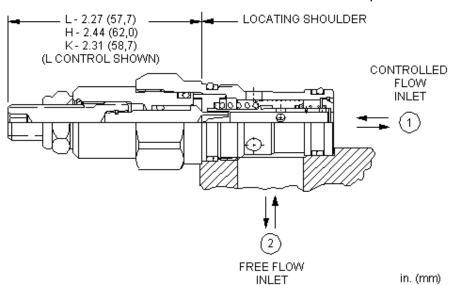
SERIES 1 / CAPACITY: 23 L/min. / CAVITY: T-13A



sunhydraulics.com/model/FDBA







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: FDBALAN

CONTROL (L) ADJUSTMENT RANGE (A) SEAL MATERIAL (N) MATERIAL/COATING

L Standard Screw Adjustment

A .1 - 6 gpm (0,4 - 23 L/min.) H Calibrated Handknob with Detent Lock **B** .1 - 2 gpm (0,4 - 8 L/min.)

K Handknob

Y Tri-Grip Handknob

N Buna-N **E** EPDM V Viton

Standard Material/Coating /AP Stainless Steel, Passivated

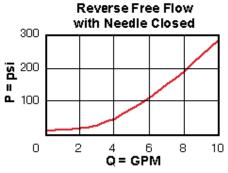
/LH Mild Steel, Zinc-Nickel

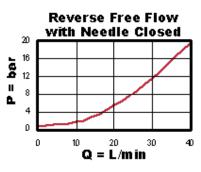
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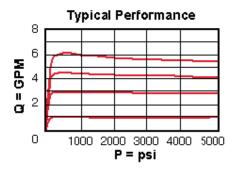
TECHNICAL FEATURES

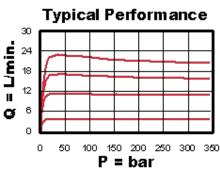
- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge
 extension dimensions from the mounting surface may vary.
- A balanced adjustment mechanism allows for easy adjustment even at high pressures.
- 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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