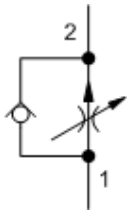
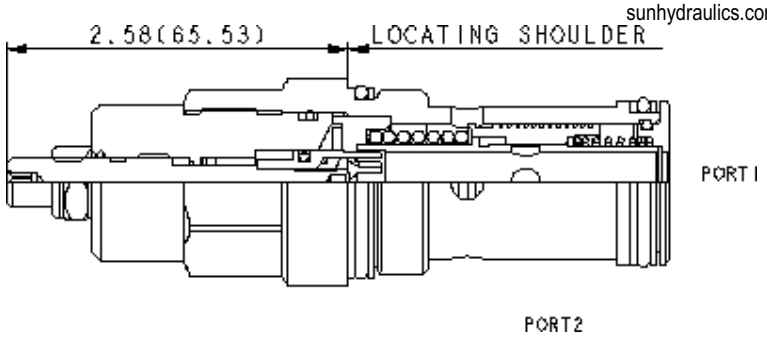
MODEL
FDEA

Fully adjustable pressure compensated flow control valve with reverse flow check

SERIES 3 / CAPACITY: 95 L/min. / CAVITY: T-16A

sunhydraulics.com/model/FDEA





CONFIGURATION

L	Control	Standard Screw Adjustment
A	Adjustment Range	.2 - 25 gpm (0,8 - 95 L/min.)
V	Seal Material	Viton
(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-16A
Series	3
Capacity	95 L/min.
Maximum Operating Pressure	350 bar
Adjustment - No. of CCW Turns from Fully Closed to Fully Open	5
Valve Hex Size	31,8 mm
Valve Installation Torque	203 - 217 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990016007
Seal kit - Cartridge	EPDM: 990016014
Seal kit - Cartridge	Polyurethane: 990016002
Seal kit - Cartridge	Viton: 990016006
Model Weight	0.59 kg.

CONFIGURATION OPTIONS

Model Code Example: FDEALAV

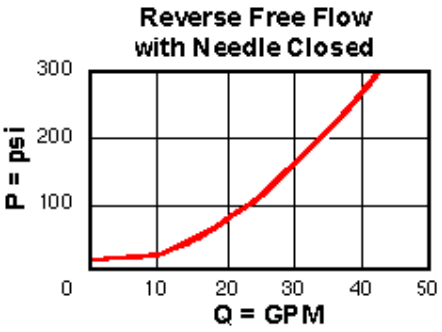
CONTROL (L)	ADJUSTMENT RANGE (A)	SEAL MATERIAL (V)	MATERIAL/COATING
L Standard Screw Adjustment	**A** .2 - 25 gpm (0,8 - 95 L/min.)	**V** Viton	Standard Material/Coating
H Calibrated Handknob with Detent Lock	**B** .2 - 16 gpm (0,8 - 60 L/min.)	**N** Buna-N	**/LH** Mild Steel, Zinc-Nickel
K Handknob		**E** EPDM	
Y Tri-Grip Handknob			

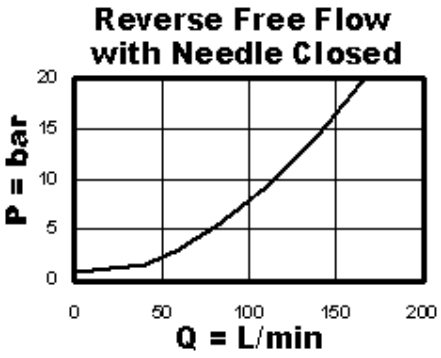
TECHNICAL FEATURES

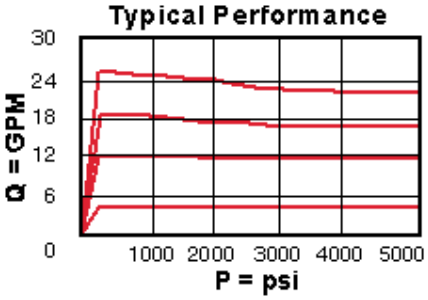
- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- A balanced adjustment mechanism allows for easy adjustment even at high pressures.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Minimum leakage is .2 gpm (0,8 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.

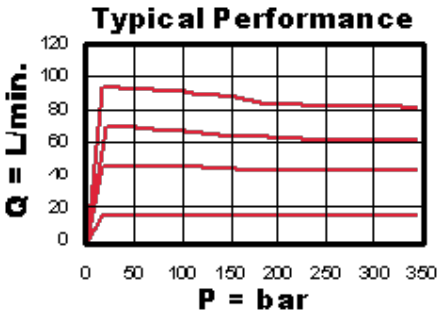
PERFORMANCE CURVES

© 2025 Sun Hydraulics









© 2025 Sun Hydraulics