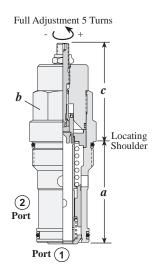
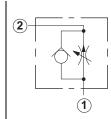
Flow Control Valves

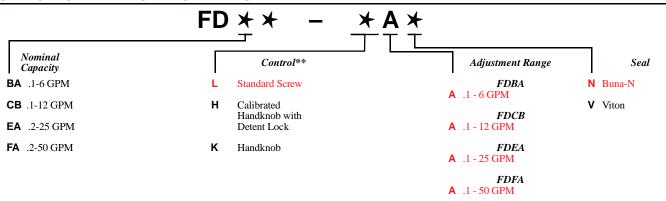
FULLY ADJUSTABLE PRESSURE COMPENSATED WITH FREE FLOW CHECK





			Cartridge Dimensions					_
a .	Typical	a .			c			Installation
Capacity	Cartridge Model Code	Cavity	а	ь	L	Н	K	Torque (lb. ft.)
.1-6 GPM	FDBA – LAN	T - 13A	1.38	7/8"	2.27	2.44	2.31	30/35
.1-12 GPM	FDCB - LAN	T - 5A	1.62	1 1/8"	2.35	2.82	2.73	45/50
.2-25 GPM	FDEA – LAN	T - 16A	2.44	1 1/4"	2.66	3.06	2.91	150/160
.2-50 GPM	FDFA – LAN	T - 18A	3.13	1 5/8"	3.31	3.50	3.47	350/375

OPTION ORDERING INFORMATION



^{**} See page 244 for information on Control Options

TECHNICAL TIPS / PERFORMANCE CURVES

Flow Control Valves, Fully Adjustable, Pressure Compensated with Free Flow Check

Applications

The fully adjustable pressure compensated flow control (FD** series) is similar in function to the (FC*B) fixed orifice model with check. However, the FD** series offers full adjustment over the entire flow range of the cartridge.

Design Concepts and Features

- Sharp edge orifice design to minimize flow variation with viscosity change.
- Five turns of adjustment with low operating effort at high pressure.
- Optional needle ranges to provide different flow capacity. See page 110.
- Leakage at shutoff:

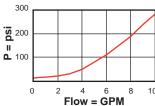
0.08 GPM FDBA and FDCB FDEA and FDFA 0.1 GPM

- Optional adjustment control options are as follows:
 - Standard screw adjustment
 - Handknob with locking ring
 - Calibrated handknob with detent lock

Performance Curves

Reverse Free Flow with Needle Closed

FDBA-LAN 300

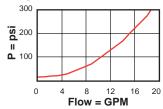


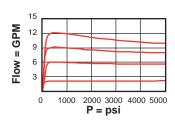
Flow = GPM 2000 3000 4000 5000 0 1000

P = psi

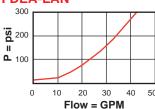
Typical Performance

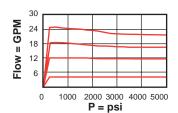
FDCB-LAN



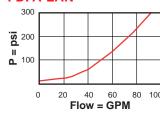


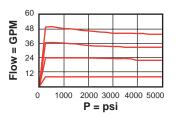
FDEA-LAN





FDFA-LAN





General Application Requirements

- Operating Temperature Range: Buna-N seals -50° F to 200° F, Viton seals 0° F to 250° F.
- Viscosity Range: 60-3000 SUS.
- Fluid Contamination Level: ISO 4406 18/15 or better; Recommend $\beta_{10} \ge 75$ to achieve ISO 18/15 or better in most systems.

127

Factory Pressure Setting for cartridge is established at a 4 GPM flow rate.