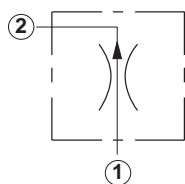
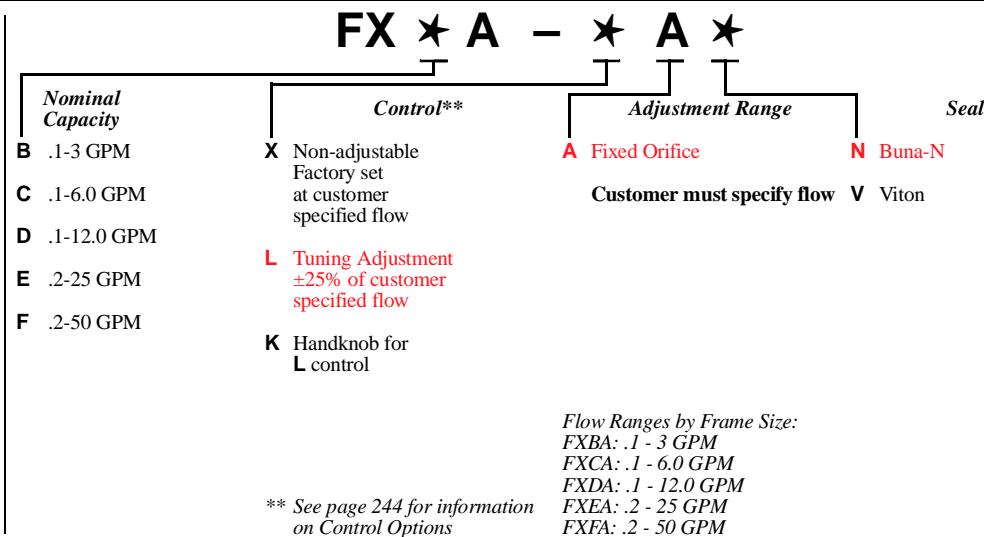
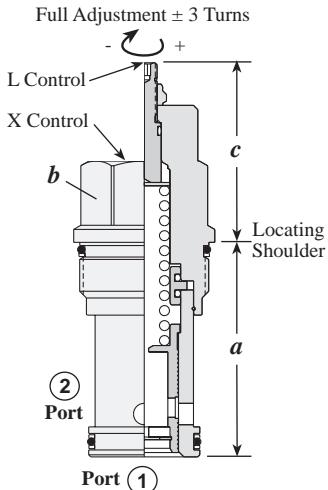
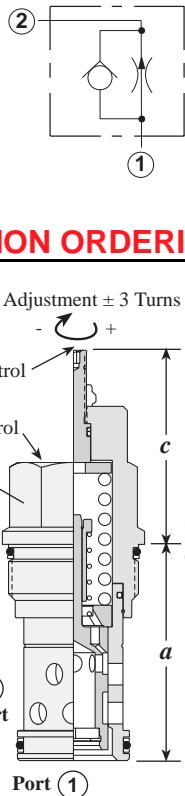
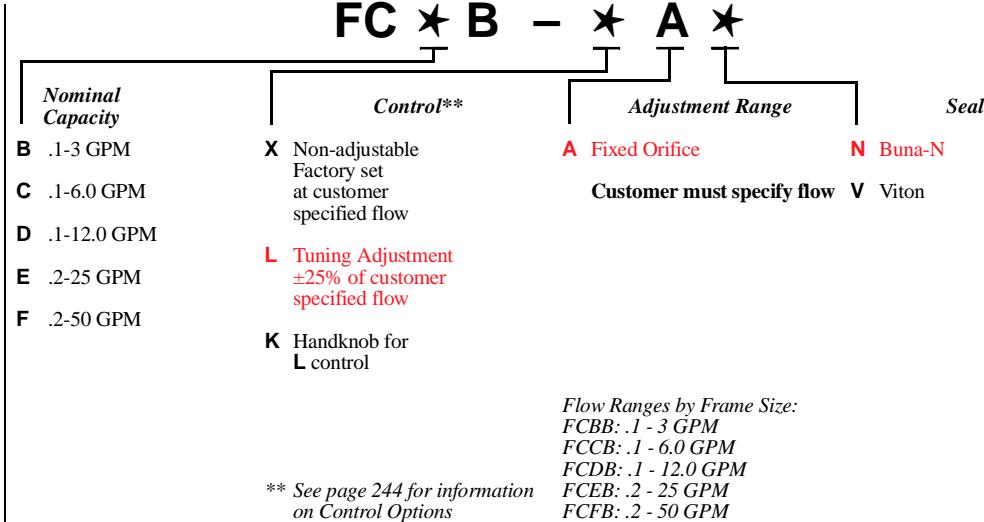
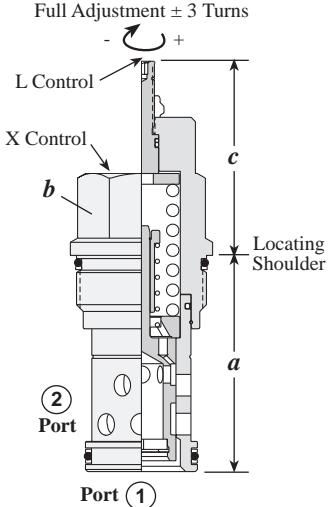


**Flow Control Valves****FIXED ORIFICE, PRESSURE COMPENSATED**

Capacity	Typical Cartridge Model Code	Cavity	Cartridge Dimensions			Installation Torque (lb. ft.)		
			a	b	c			
			X	L	K			
.1-3 GPM	<b>FXBA - LAN</b>	T - 162A	1.22	3/4"	.82	2.11	2.25	25/30
.1-6.0 GPM	<b>FXCA - LAN</b>	T - 13A	1.38	7/8"	.75	2.00	2.25	30/35
.1-12.0 GPM	<b>FXDA - LAN</b>	T - 5A	1.62	1 1/8"	.69	2.12	2.38	45/50
.2-25 GPM	<b>FXEA - LAN</b>	T - 16A	2.44	1 1/4"	.97	2.44	2.69	150/160
.2-50 GPM	<b>FXFA - LAN</b>	T - 18A	3.13	1 5/8"	1.19	2.81	3.06	350/375

**OPTION ORDERING INFORMATION****FIXED ORIFICE, PRESSURE COMPENSATED WITH FREE FLOW CHECK**

Capacity	Typical Cartridge Model Code	Cavity	Cartridge Dimensions			Installation Torque (lb. ft.)		
			a	b	c			
			X	L	K			
.1-3 GPM	<b>FCBB - LAN</b>	T - 162A	1.22	3/4"	.82	2.11	2.55	25/30
.1-6.0 GPM	<b>FCCB - LAN</b>	T - 13A	1.38	7/8"	.75	2.00	2.25	30/35
.1-12.0 GPM	<b>FCDB - LAN</b>	T - 5A	1.62	1 1/8"	.69	2.12	2.38	45/50
.2-25 GPM	<b>FCEB - LAN</b>	T - 16A	2.44	1 1/4"	.97	2.44	2.69	150/160
.2-50 GPM	<b>FCFB - LAN</b>	T - 18A	3.13	1 5/8"	1.19	2.81	3.06	350/375

**OPTION ORDERING INFORMATION**

## TECHNICAL TIPS / PERFORMANCE CURVES

### Flow Control Valves, Fixed Orifice, Pressure Compensated

#### Applications

These pressure-compensated cartridges provide precise flow regulation for meter-in and meter-out applications. They also offer accurate control in bleed-off circuits where the load pressure and inlet flow are relatively constant.

**NOTE:** Accurate pressure-compensated control requires a 195 psi minimum pressure differential be maintained across the valve

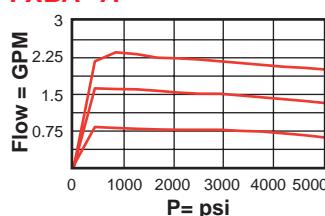
#### Design Concepts and Features

- Minimum flow change over widely varying load pressure changes (less than  $\pm 5\%$  over 4500 psi load change).
- Selectable fixed orifice size (flow capacity 0.1 to 50 GPM, dependent on frame size).
- Tunable control option to provide  $\pm 25\%$  variation of the nominal factory set flow.

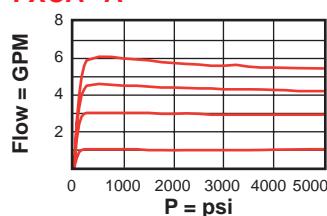
#### Performance Curves

##### Typical Performance

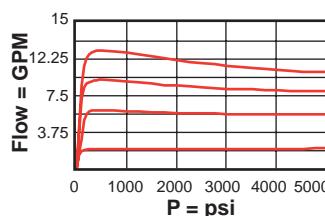
###### FXBA-\*A\*



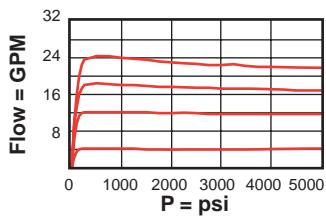
###### FXCA-\*A\*



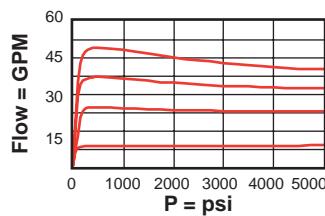
###### FXDA-\*A\*



###### FSEA-\*A\*



###### FXFA-\*A\*



### Flow Control Valves, Fixed Orifice, Pressure Compensated with Free Flow Check

#### Applications

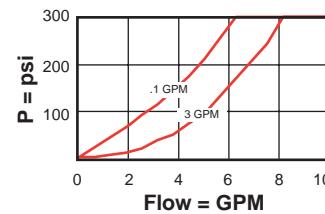
The performance parameters of the FC\*B pressure compensated flow control with free flow check are identical to the FX\*A, but with the addition of a high capacity free flow check.

**Note:** Accurate pressure-compensated control requires a 195 psi minimum pressure differential be maintained across the valve

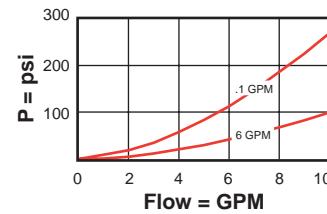
#### Performance Curves

##### Reverse Free Flow Pressure Drop

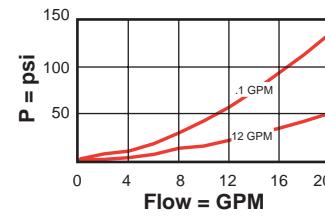
###### FCBB-\*A\*



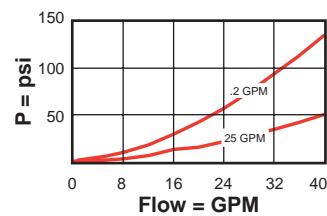
###### FCCB-\*A\*



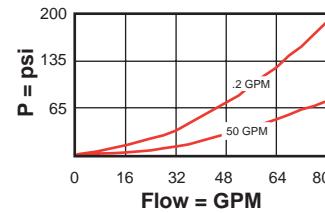
###### FCDB-\*A\*



###### FCEB-\*A\*



###### FCFB-\*A\*



### 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  $\beta_{10} \geq 75$  to achieve ISO 18/15 or better in most systems.
- Factory Pressure Setting for cartridge is established at a 4 GPM flow rate.