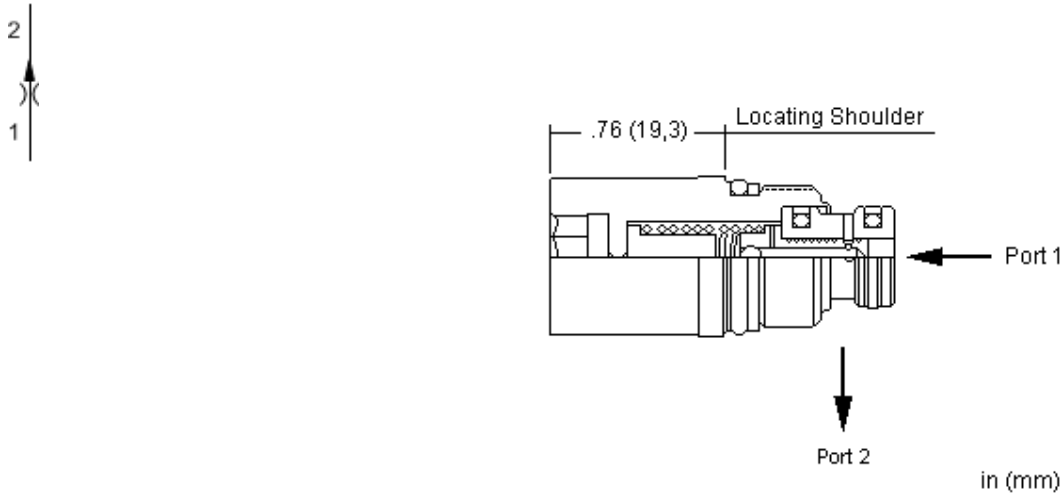




Fixed-orifice, pressure-compensated flow controls provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations. A variety of flow rates are available.

TECHNICAL DATA

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

Cavity	T-8A
Series	P
Capacity	2 L/min.
Maximum Operating Pressure	350 bar
Valve Internal Hex Size	8 mm
Valve Installation Torque	27 - 33 Nm
Seal kit - Cartridge	Buna: 990008007
Seal kit - Cartridge	Polyurethane: 990008002
Seal kit - Cartridge	Viton: 990008006
Model Weight	0.05 kg.

CONFIGURATION OPTIONS

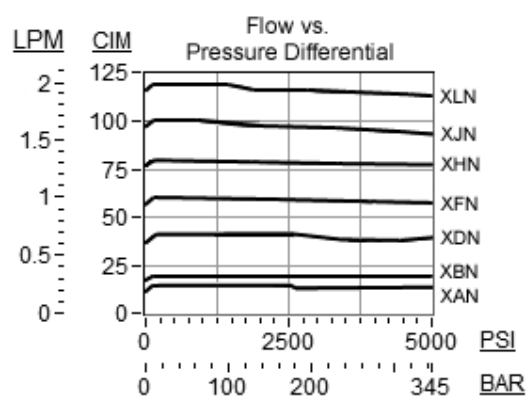
Model Code Example: FXAGXAN

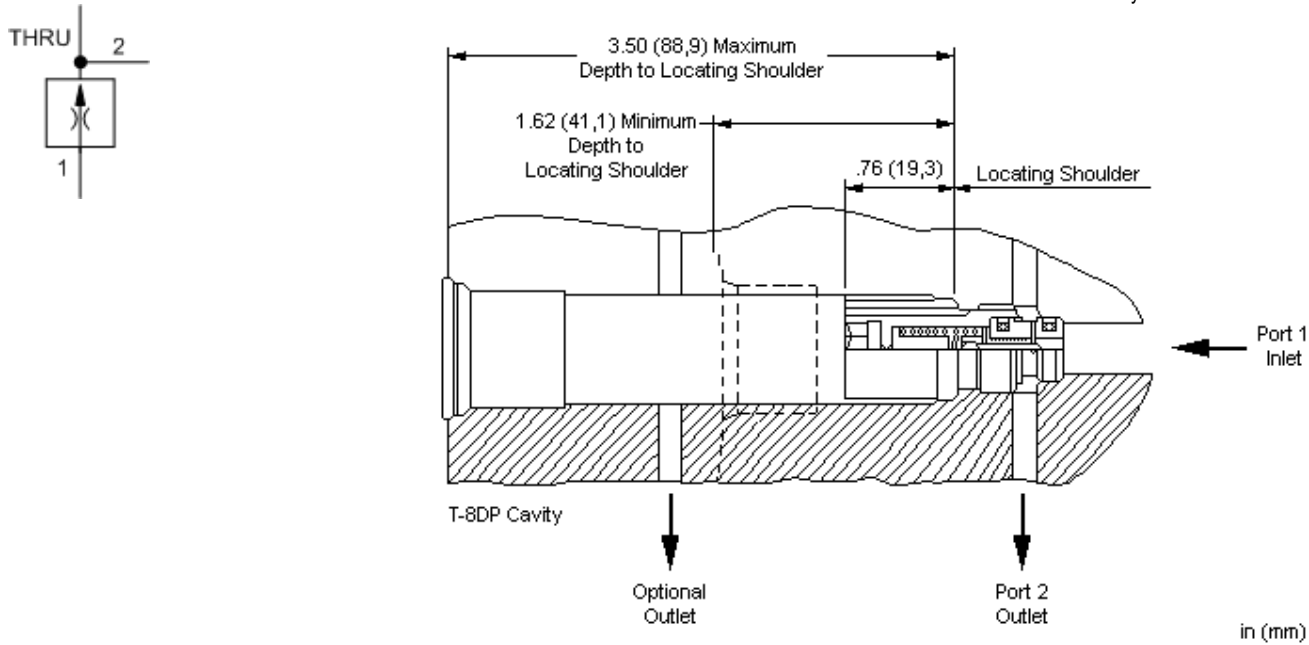
CONTROL	(X)	FLOW RATE	(A)	SEAL MATERIAL	(N)
X Not Adjustable		A 15 in ³ /min. (250 cc/min.) B 20 in ³ /min. (330 cc/min.) D 40 in ³ /min. (660 cc/min.) F 60 in ³ /min. (1 L/min.) H 80 in ³ /min. (1.3 L/min.) J 100 in ³ /min. (1.6 L/min.) L 120 in ³ /min. (2.0 L/min.)		N Buna-N V Viton	

TECHNICAL FEATURES

- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Flush mount valves provide a small footprint. They can easily be mounted flush with the surface of the manifold.
- Will accept 5000 psi (350 bar) at ports 1 and 2.
- Flow Tolerances A Flow Rate +/- 2.0 in³/min. (+/- 32 cc/min.) B Flow Rate +/- 2.5 in³/min. (+/- 40 cc/min.) D and F Flow Rates +/- 3.0 in³/min. (+/- 48 cc/min.) H and J Flow Rates +/- 4.0 in³/min. (+/- 64 cc/min.) L Flow Rate +/- 4.5 in³/min. (+/- 72 cc/min.)
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Fixed-orifice, pressure-compensated flow controls provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations. A variety of flow rates are available. The THRU port at the top of the valve can be used as the outlet with port 2 blocked. See cavity drawing for details.

TECHNICAL DATA

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

Cavity	T-8DP
Series	P
Capacity	2 L/min.
Maximum Operating Pressure	350 bar
Valve Internal Hex Size	8 mm
Valve Installation Torque	27 - 33 Nm
Model Weight	0.05 kg.

CONFIGURATION OPTIONS

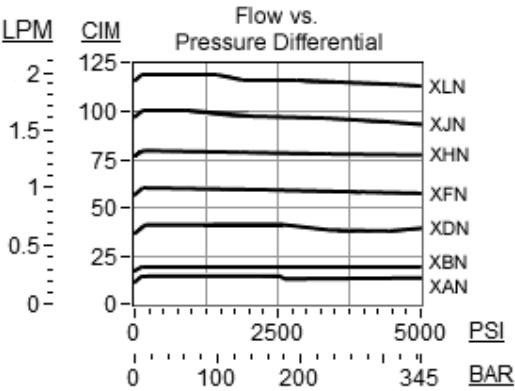
Model Code Example: FXAMXAN

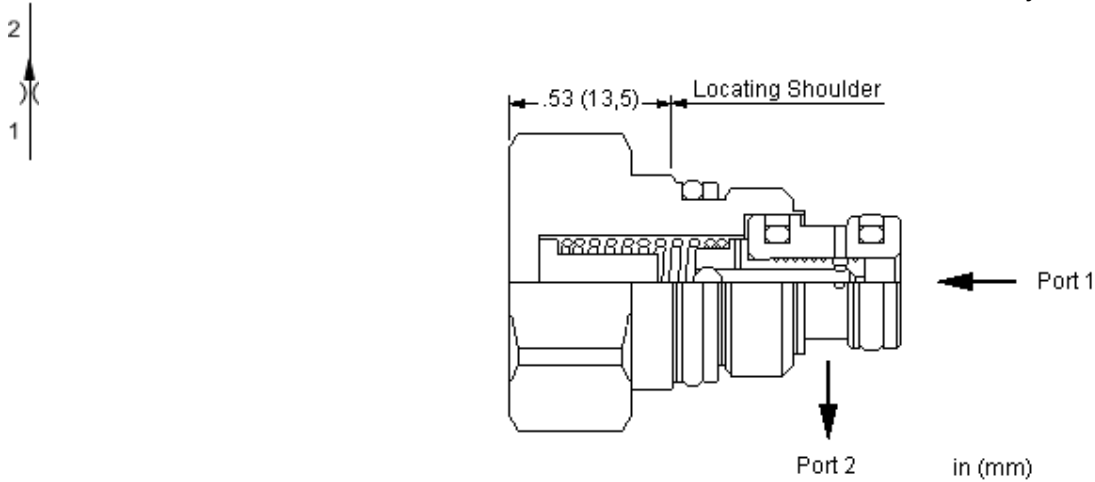
CONTROL	(X)	FLOW RATE	(A)	SEAL MATERIAL	(N)
X Not Adjustable		A 15 in ³ /min. (250 cc/min.)		N Buna-N	
		B 20 in ³ /min. (330 cc/min.)		V Viton	
		D 40 in ³ /min. (660 cc/min.)			
		F 60 in ³ /min. (1 L/min.)			
		H 80 in ³ /min. (1.3 L/min.)			
		J 100 in ³ /min. (1.6 L/min.)			
		L 120 in ³ /min. (2.0 L/min.)			

TECHNICAL FEATURES

- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- This valve is what we call an Insert style. It is meant to be buried in a manifold or actuator. The cavity drawing for the T-8DP cavity contains detailed information which should be studied closely when applying this valve.
- Will accept 5000 psi (350 bar) at ports 1 and 2.
- Flow Tolerances A Flow Rate +/- 2.0 in³/min. (+/- 32 cc/min.) B Flow Rate +/- 2.5 in³/min. (+/- 40 cc/min.) D and F Flow Rates +/- 3.0 in³/min. (+/- 48 cc/min.) H and J Flow Rates +/- 4.0 in³/min. (+/- 64 cc/min.) L Flow Rate +/- 4.5 in³/min. (+/- 72 cc/min.)
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Fixed-orifice, pressure-compensated flow controls provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations. A variety of flow rates are available.

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

Cavity	T-8A
Series	P
Capacity	2 L/min.
Maximum Operating Pressure	350 bar
Valve Hex Size	22,2 mm
Valve Installation Torque	27 - 33 Nm
Seal kit - Cartridge	Buna: 990008007
Seal kit - Cartridge	EPDM: 990008014
Seal kit - Cartridge	Polyurethane: 990008002
Seal kit - Cartridge	Viton: 990008006
Model Weight	0.06 kg.

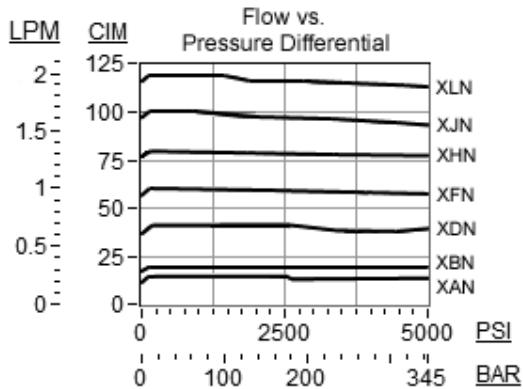
CONFIGURATION OPTIONS Model Code Example: FXAAXAN

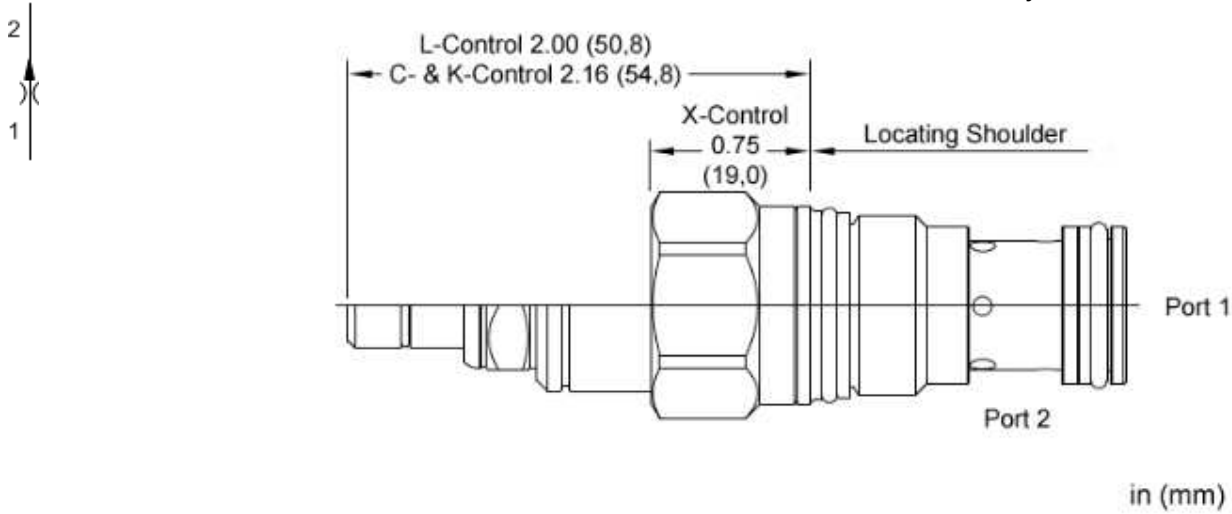
CONTROL	(X) FLOW RATE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A 15 in³/min. (250 cc/min.) B 20 in³/min. (330 cc/min.) D 40 in³/min. (660 cc/min.) F 60 in³/min. (1 L/min.) H 80 in³/min. (1.3 L/min.) J 100 in³/min. (1.6 L/min.) L 120 in³/min. (2.0 L/min.)	N Buna-N E EPDM V Viton	Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

TECHNICAL FEATURES

- Will accept 5000 psi (350 bar) at ports 1 and 2.
- 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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Flow Tolerances A Flow Rate ± 2.0 in³/min. (± 32 cc/min.) B Flow Rate ± 2.5 in³/min. (± 40 cc/min.) D and F Flow Rates ± 3.0 in³/min. (± 48 cc/min.) H and J Flow Rates ± 4.0 in³/min. (± 64 cc/min.) L Flow Rate ± 4.5 in³/min. (± 72 cc/min.)
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Fixed-orifice, pressure-compensated flow controls provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations.

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
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
Model Weight	0.10 kg.

CONFIGURATION OPTIONS

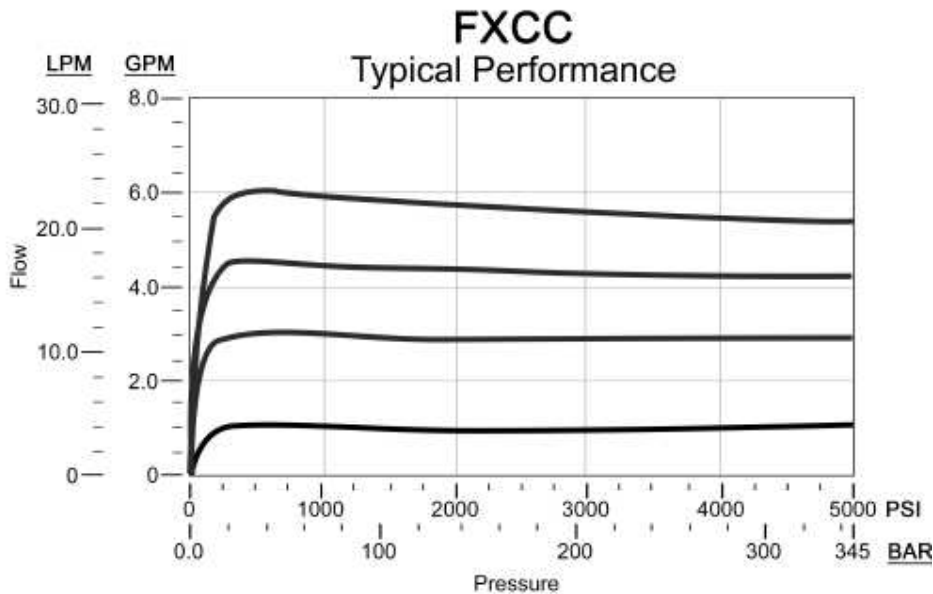
Model Code Example: FXCCXAN

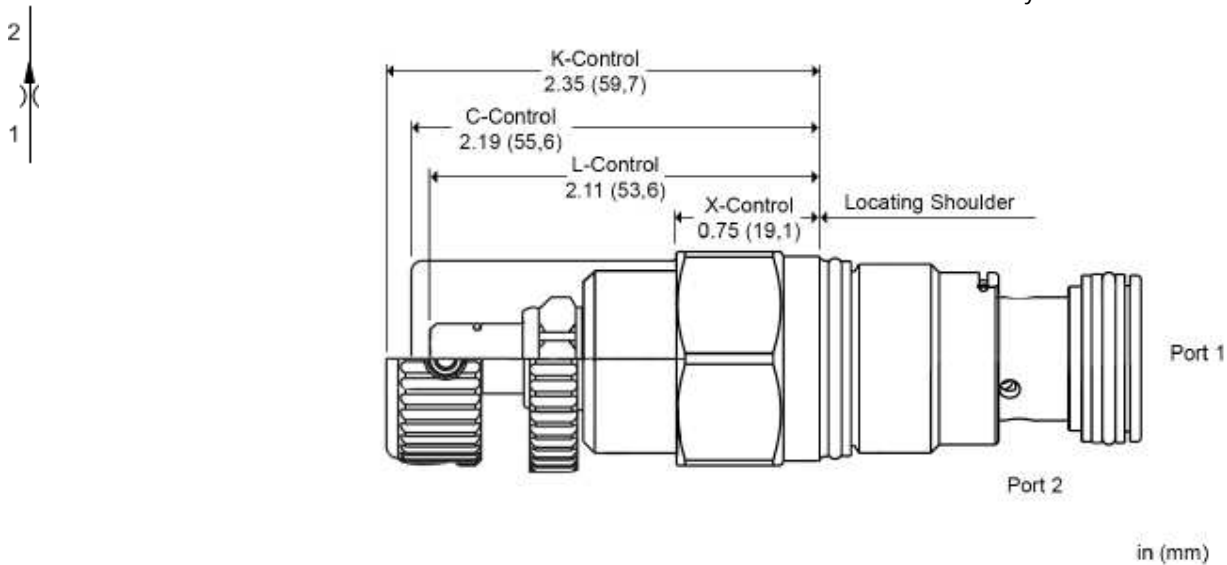
CONTROL	(X) ADJUSTMENT RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A .09 - .12 gpm (.34-.46 L/min.), .11 gpm (.4 L/min.) Standard Setting	N Buna-N	Standard Material/Coating
C Tamper Resistant - Factory Set		E EPDM	/AP Stainless Steel, Passivated
K Handknob		V Viton	/LH Mild Steel, Zinc-Nickel
L Standard Screw Adjustment	B .12 - .17 gpm (.47-.63 L/min.), .15 gpm (.55 L/min.) Standard Setting		
	C .17 - .23 gpm (.64-.86 L/min.), .20 gpm (.75 L/min.) Standard Setting		
	D .25 - .33 gpm (.94-1.27 L/min.), .29 gpm (1.10 L/min.) Standard Setting		
	F .35 - .47 gpm (1.32-1.78 L/min.), .41 gpm (1.55 L/min.) Standard Setting		
	G .45 - .61 gpm (1.70-2.30 L/min.), .53 gpm (2.0 L/min.) Standard Setting		
	H .56 - .76 gpm (2.13-2.88 L/min.), .66 gpm (2.5 L/min.) Standard Setting		
	J .7 - .94 gpm (2.64-3.57 L/min.), .82 gpm (3.10 L/min.) Standard Setting		
	K .85 - 1.15 gpm (3.23-4.37 L/min.), 1.0 gpm (3.80 L/min.) Standard Setting		
	L 1.09 - 1.47 gpm (4.12-5.58 L/min.), 1.28 gpm (4.85 L/min.) Standard Setting		
	M 1.35 - 1.82 gpm (5.10-6.90 L/min.), 1.59 gpm (6.0 L/min.) Standard Setting		
	N 1.68 - 2.28 gpm (6.38-8.63 L/min.), 1.98 gpm (7.50 L/min.) Standard Setting		
	P 2.08 - 2.81 gpm (7.86-10.64 L/min.), 2.44 gpm (9.25 L/min.) Standard Setting		
	R 2.58 - 3.49 gpm (9.78-13.23 L/min.), 3.04 gpm (11.5 L/min.) Standard Setting		
	S 3.19 - 4.31 gpm (12.07-16.33 L/min.), 3.75 gpm (14.2 L/min.) Standard Setting		
	T 3.93 - 5.32 gpm (14.88-20.13 L/min.), 4.62 gpm (17.5 L/min.) Standard Setting		
	V 4.94 - 6.68 gpm (18.70-25.30 L/min.), 5.81 gpm (22.0 L/min.) Standard Setting		

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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Customer must select a nominal flow setting range from the available options. Factory flow settings are within +/- 10% of the nominal flow setting for the "L" and "K" controls and within +/- 15% for the "X" control.
- The tunable control options, "L" control and "K" control, provide +/- 25% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase flow and counterclockwise to decrease it.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Fixed-orifice, pressure-compensated flow controls provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations.

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

Cavity	T-5A
Series	2
Capacity	45 L/min.
Maximum Operating Pressure	350 bar
Valve Hex Size	28,6 mm
Valve Installation Torque	61 - 68 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990203007
Seal kit - Cartridge	EPDM: 990203014
Seal kit - Cartridge	Viton: 990203006
Model Weight	0.17 kg.

CONFIGURATION OPTIONS

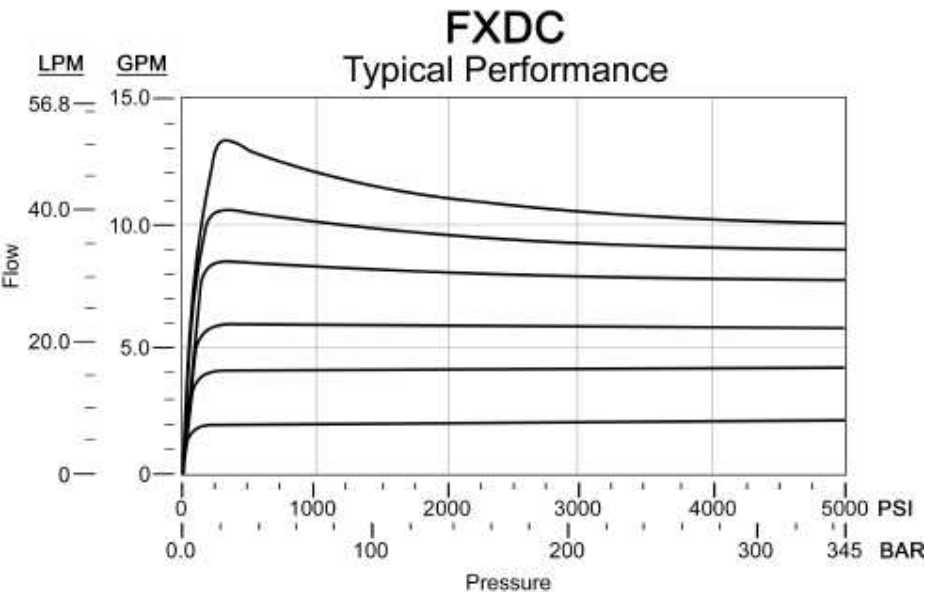
Model Code Example: FXDCArray

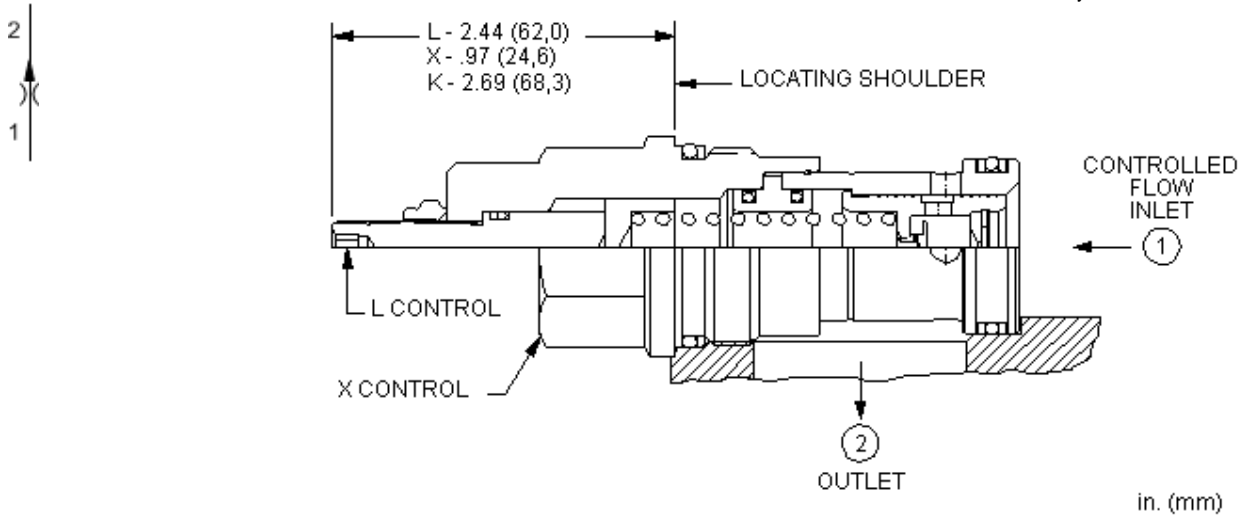
CONTROL	(X) FLOW RATE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A .106 gpm (.4 L/min.)	N Buna-N	Standard Material/Coating
C Tamper Resistant - Factory Set	B .264 gpm (1.0 L/min.)	V Viton	/AP Stainless Steel, Passivated
K Handknob	C .528 gpm (2.0 L/min.)		
L Standard Screw Adjustment	D .793 gpm (3.0 L/min.)		
	F .991 gpm (3.75 L/min.)		
	G 1.215 gpm (4.6 L/min.)		
	H 1.479 gpm (5.6 L/min.)		
	J 1.823 gpm (6.9 L/min.)		
	K 2.245 gpm (8.5 L/min.)		
	L 2.774 gpm (10.5 L/min.)		
	M 3.434 gpm (13.0 L/min.)		
	N 4.227 gpm (16.0 L/min.)		
	P 5.178 gpm (19.6 L/min.)		
	R 6.472 gpm (24.5 L/min.)		
	S 7.925 gpm (30.0 L/min.)		
	T 9.774 gpm (37.0 L/min.)		
	V 11.888 gpm (45.0 L/min.)		

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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Customer must select a nominal flow setting range from the available options. Factory flow settings are within +/- 10% of the nominal flow setting for the "L" and "K" controls and within +/- 15% for the "X" control.
- The tunable control options, "L" control and "K" control, provide +/- 25% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase flow and counterclockwise to decrease it.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Fixed-orifice, pressure-compensated flow controls provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations. The flow setting is specified by the user and is set at the factory.

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
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	0.55 kg.

CONFIGURATION OPTIONS

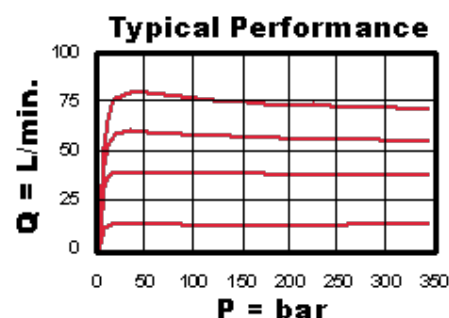
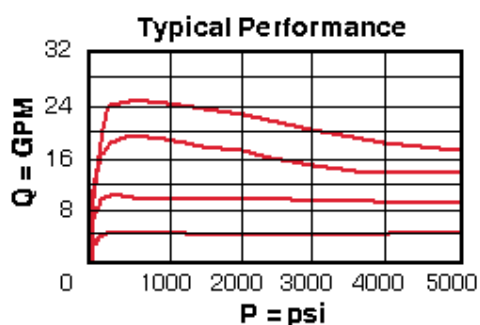
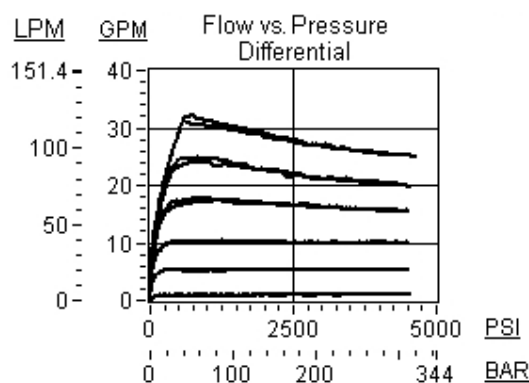
Model Code Example: FXEALAN

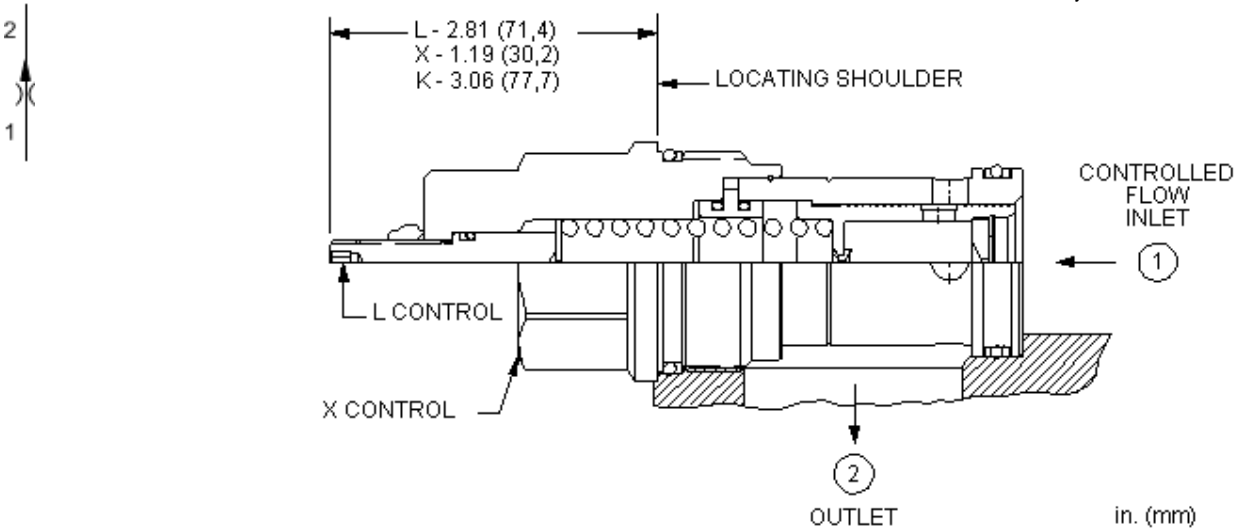
CONTROL	(L) SETTING RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
L Tuning Adjustment	A Replaceable Orifice .2 - 25 gpm (0,8 - 95 L/min.)	N Buna-N	Standard Material/Coating
C Tamper Resistant - Factory Set		E EPDM	/AP Stainless Steel, Passivated
K Handknob		V Viton	/LH Mild Steel, Zinc-Nickel
X Not Adjustable			

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- 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.
- 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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- The tuneable control option provides +/- 25% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of Construction page located under TECH RESOURCES.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Fixed-orifice, pressure-compensated flow controls provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations. The flow setting is specified by the user and is set at the factory.

TECHNICAL DATA

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

Cavity	T-18A
Series	4
Capacity	200 L/min.
Maximum Operating Pressure	350 bar
Valve Hex Size	41,3 mm
Valve Installation Torque	474 - 508 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990018007
Seal kit - Cartridge	EPDM: 990018014
Seal kit - Cartridge	Polyurethane: 990018002
Seal kit - Cartridge	Viton: 990018006
Model Weight	0.93 kg.

CONFIGURATION OPTIONS

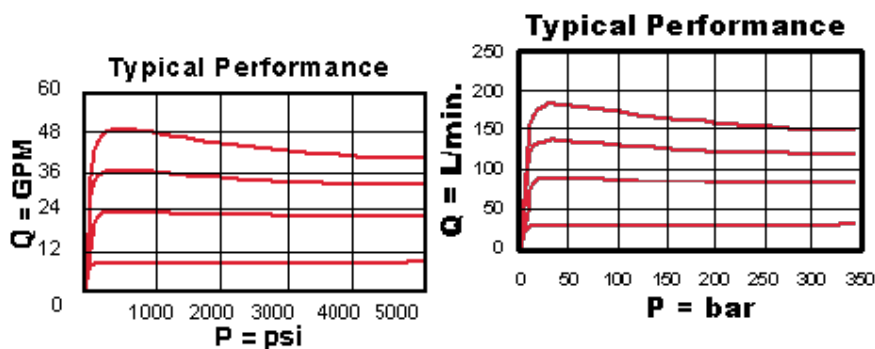
Model Code Example: FXFAXAN

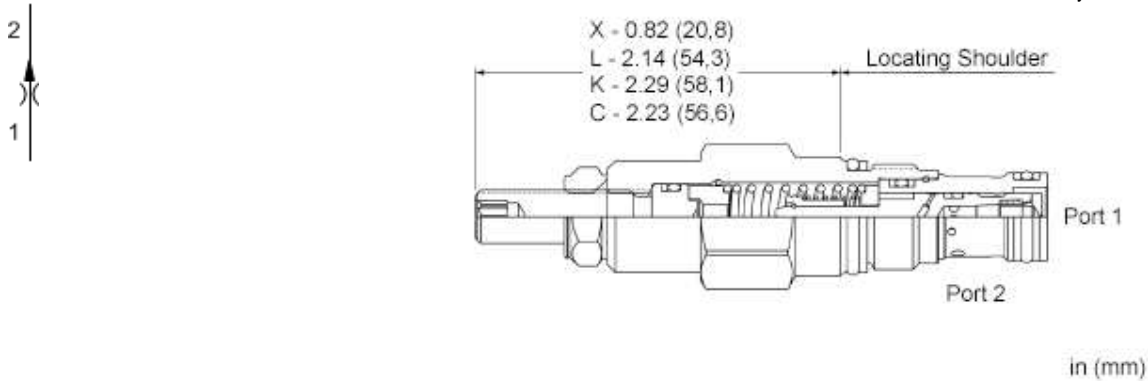
CONTROL	(X) SETTING RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A Replaceable Orifice .2 - 50 gpm (1 - 200 L/min.)	N Buna-N	Standard Material/Coating
L Tuning Adjustment		E EPDM	/AP Stainless Steel, Passivated
K Handknob		V Viton	/LH Mild Steel, Zinc-Nickel

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- The tuneable control option provides +/- 20% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase.
- 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.
- 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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Fixed-orifice, pressure-compensated flow controls provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations. The flow setting is specified by the user and is set at the factory.

TECHNICAL DATA

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

Cavity	T-162A
Series	0
Capacity	11 L/min.
Maximum Operating Pressure	350 bar
Valve Hex Size	19,1 mm
Valve Installation Torque	27 - 33 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Model Weight	0.10 kg.

CONFIGURATION OPTIONS

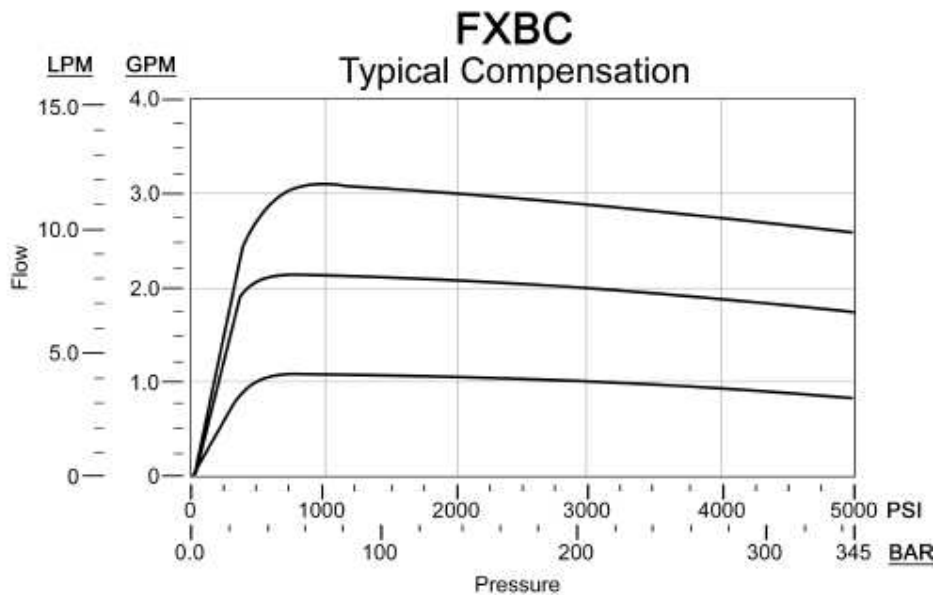
Model Code Example: FXBCLCN

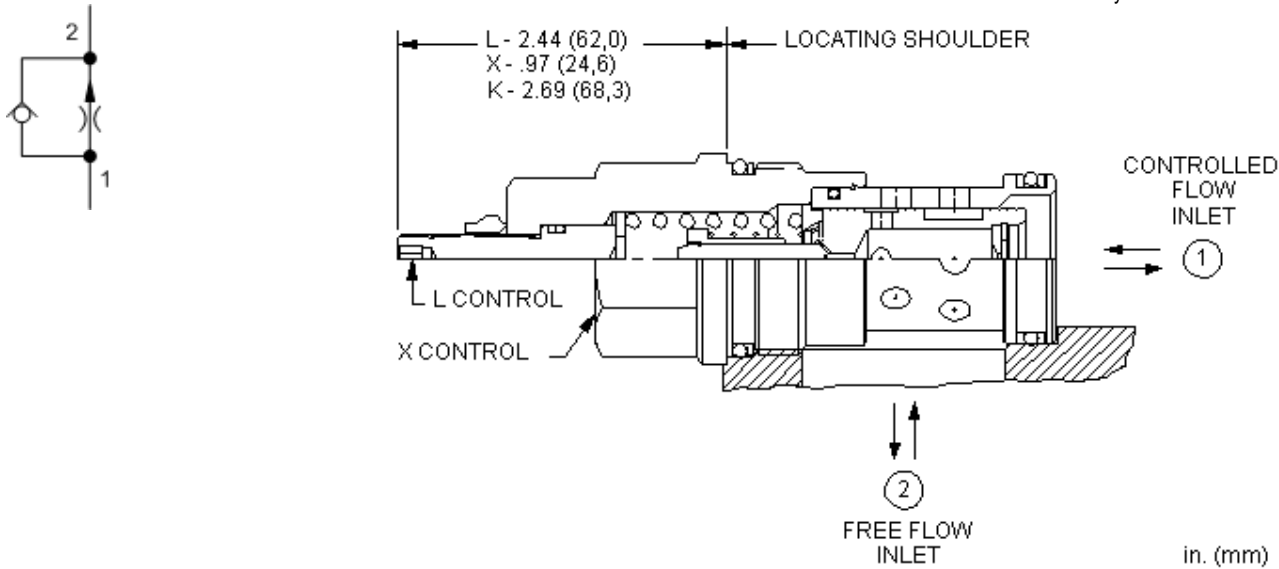
CONTROL	(L) FLOW RATE	(C) SEAL MATERIAL (N)
L Tuning Adjustment	C .106 gpm (.4 L/min.)	N Buna-N
C Tamper Resistant - Factory Set	D .132 gpm (.49 L/min.)	V Viton
K Handknob	F .198 gpm (.75 L/min.)	
X Not Adjustable	G .291 gpm (1.10 L/min.)	
	H .41 gpm (1.55 L/min.)	
	J .528 gpm (2.0 L/min.)	
	K .661 gpm (2.50 L/min.)	
	L .819 gpm (3.10 L/min.)	
	M 1.057 gpm (4.00 L/min.)	
	N 1.321 gpm (5.00 L/min.)	
	P 1.585 gpm (6.0 L/min.)	
	R 2.008 gpm (7.6 L/min.)	
	S 2.378 gpm (9.0 L/min.)	
	T 2.642 gpm (10.0 L/min.)	
	V 3.012 gpm (11.40 L/min.)	

TECHNICAL FEATURES

- Factory set flow valve ratings are within +/- 15% of the nominal range/setting.
- 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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- The tuneable control option provides +/- 20% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase and counterclockwise to decrease.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Fixed-orifice, 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. An integral high-capacity check valve provides unrestricted flow from port 2 to port 1. The flow setting is specified by the user and is set at the factory.

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
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	Polyurethane: 990016002
Seal kit - Cartridge	Viton: 990016006
Model Weight	0.43 kg.

CONFIGURATION OPTIONS

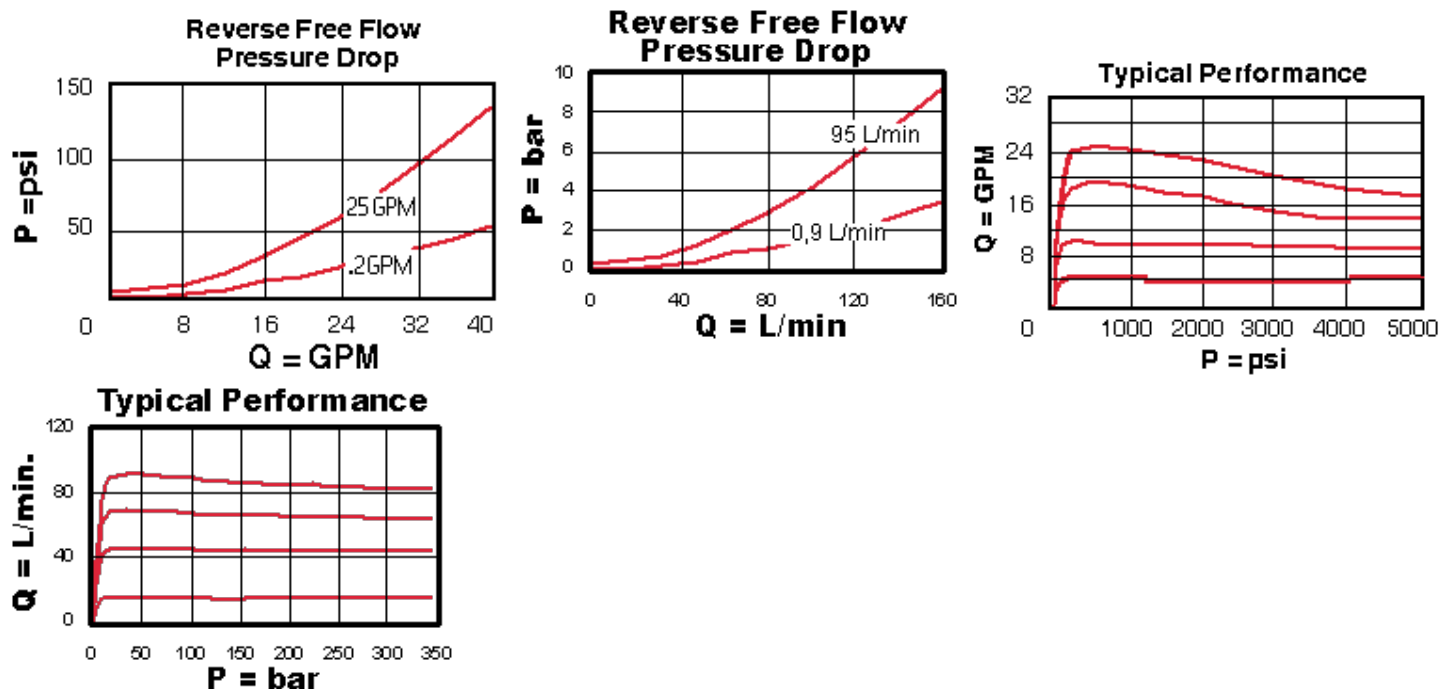
Model Code Example: FCEBXAN

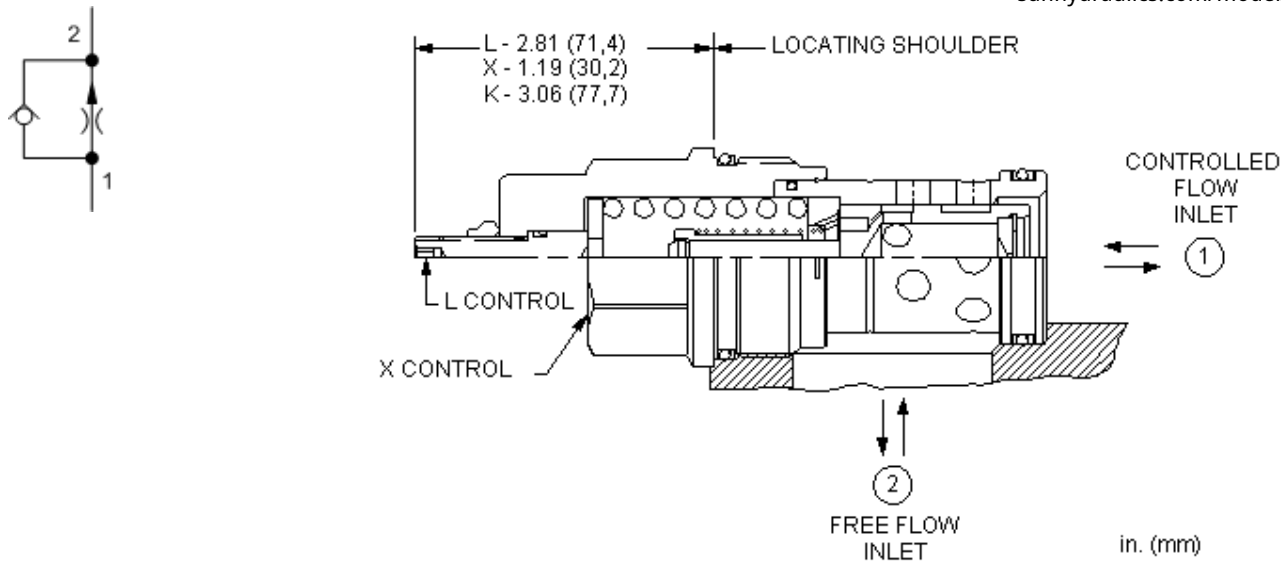
CONTROL	(X) SETTING RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A Replaceable Orifice .2 - 25 gpm (0,8 - 95 L/min.)	N Buna-N	Standard Material/Coating
L Tuning Adjustment		V Viton	/AP Stainless Steel, Passivated
C Tamper Resistant - Factory Set			/LH Mild Steel, Zinc-Nickel
K Handknob			

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- 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.
- The tuneable control option provides +/- 22% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of Construction page located under TECH RESOURCES.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Fixed-orifice, 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. An integral high-capacity check valve provides unrestricted flow from port 2 to port 1. The flow setting is specified by the user and is set at the factory.

TECHNICAL DATA

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

Cavity	T-18A
Series	4
Capacity	200 L/min.
Maximum Operating Pressure	350 bar
Valve Hex Size	41,3 mm
Valve Installation Torque	474 - 508 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990018007
Seal kit - Cartridge	Polyurethane: 990018002
Seal kit - Cartridge	Viton: 990018006
Model Weight	0.91 kg.

CONFIGURATION OPTIONS

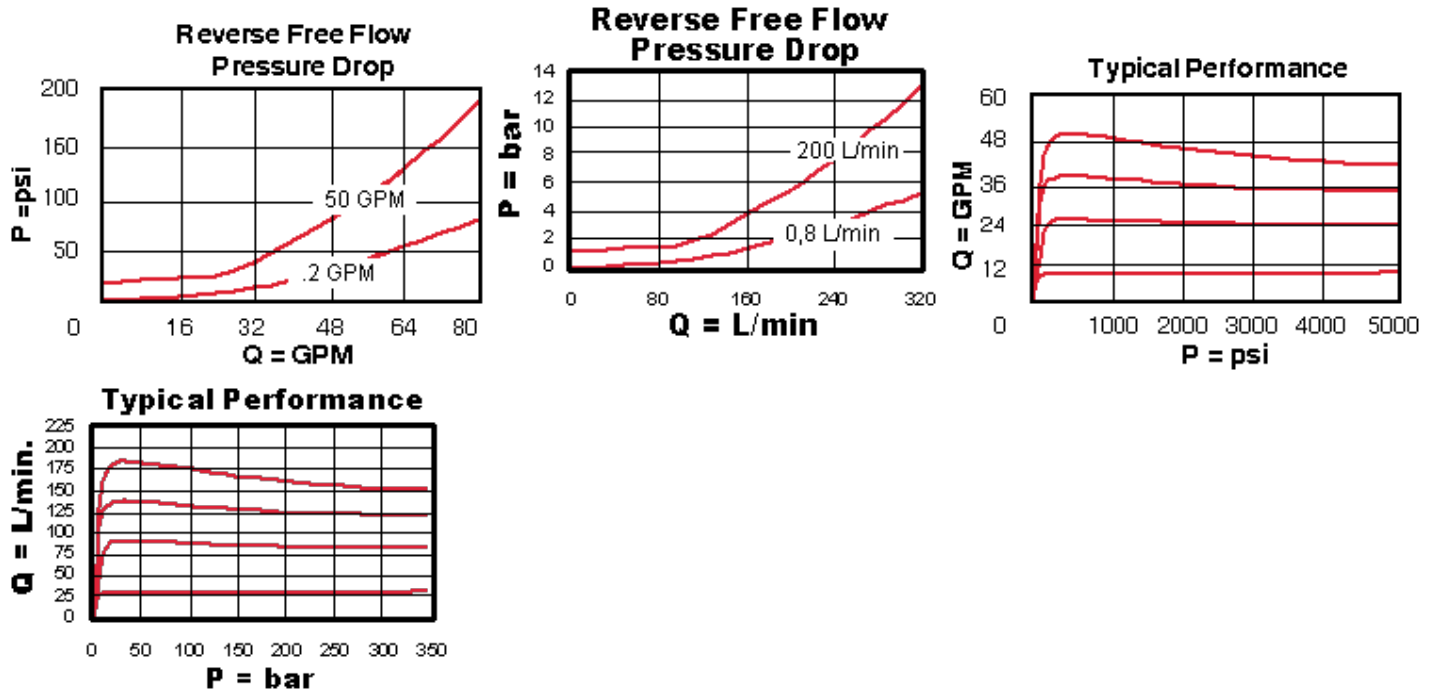
Model Code Example: FCFBArray

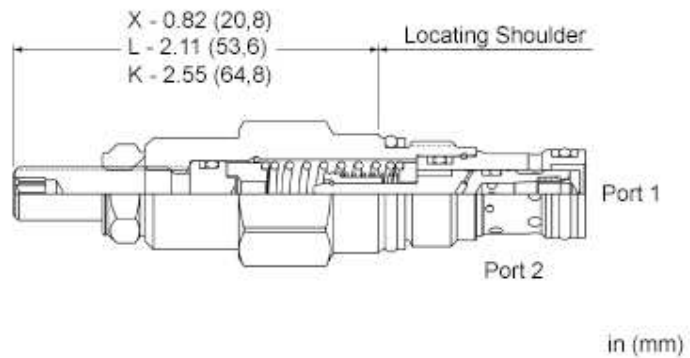
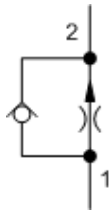
CONTROL	(X) SETTING RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A Replaceable Orifice .2 - 50 gpm (1 - 200 L/min.)	N Buna-N	Standard Material/Coating
L Tuning Adjustment		V Viton	/AP Stainless Steel, Passivated
K Handknob			

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- The tuneable control option provides +/- 20% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase.
- 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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Fixed-orifice, 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. An integral high-capacity check valve provides unrestricted flow from port 2 to port 1. The flow range is specified by the user and is set at the factory.

TECHNICAL DATA

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

Cavity	T-162A
Series	0
Capacity	11 L/min.
Maximum Operating Pressure	350 bar
Valve Hex Size	19,1 mm
Valve Installation Torque	27 - 33 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990162007
Seal kit - Cartridge	Polyurethane: 990162002
Seal kit - Cartridge	Viton: 990162006
Model Weight	0.10 kg.

CONFIGURATION OPTIONS

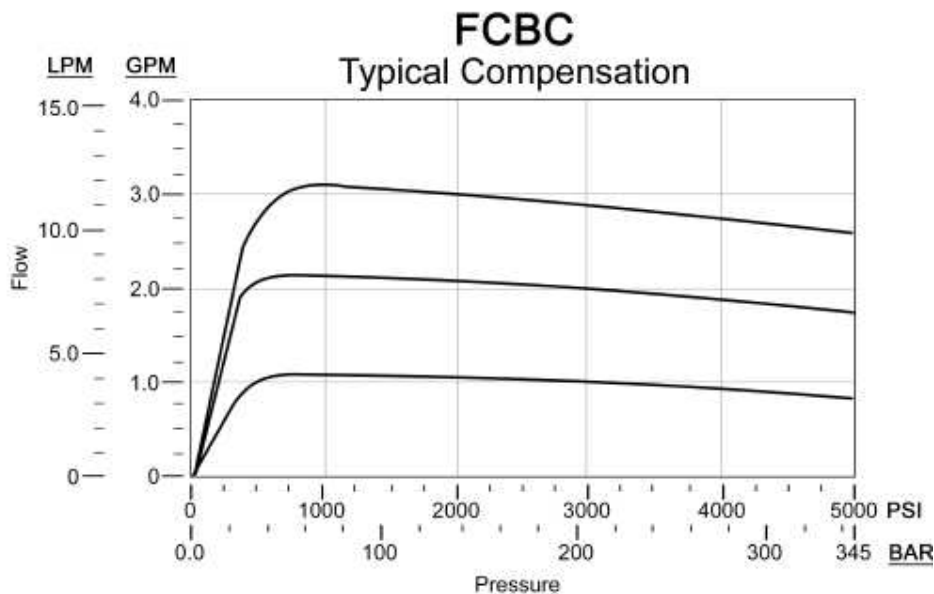
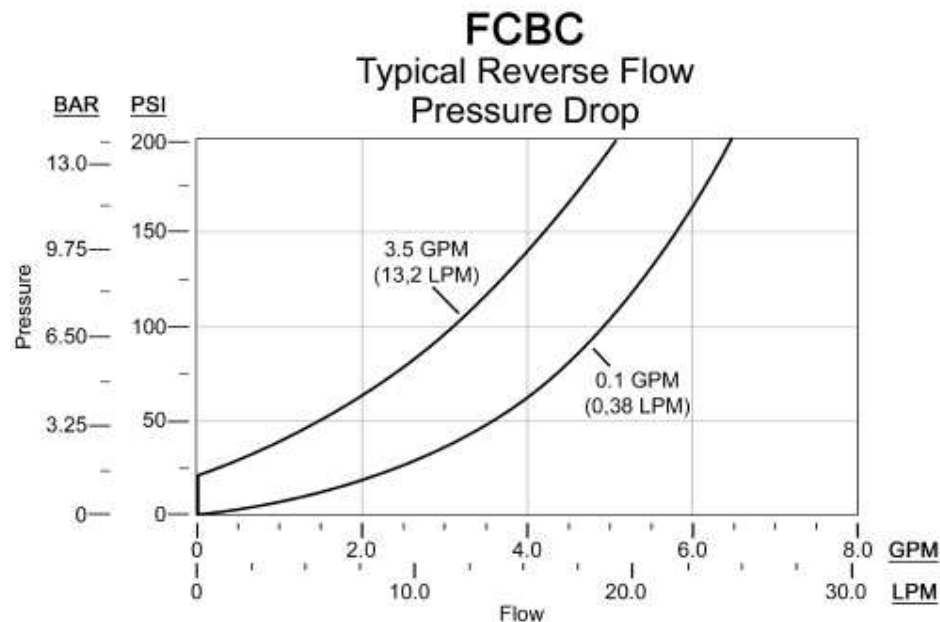
Model Code Example: FCBCLCN

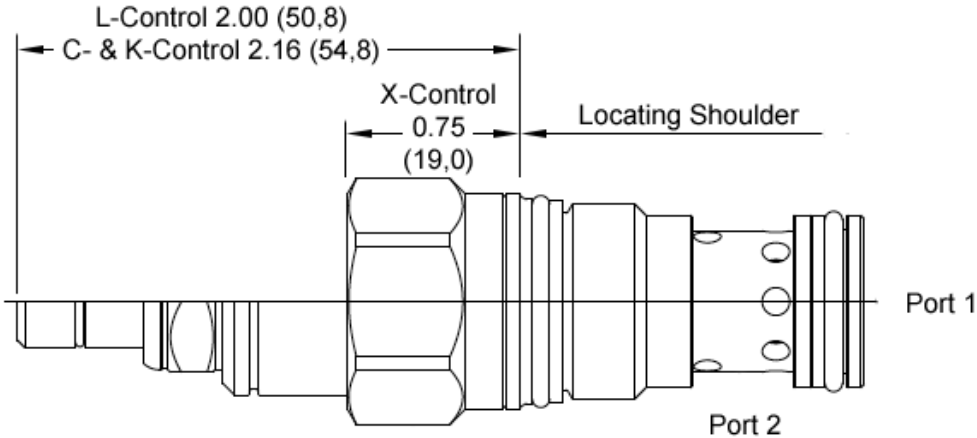
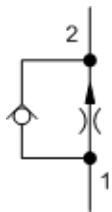
CONTROL	(L) FLOW RATE	(C) SEAL MATERIAL	(N) MATERIAL/COATING
L Tuning Adjustment	C .106 gpm (.4 L/min.)	N Buna-N	Standard Material/Coating
C Tamper Resistant - Factory Set	D .132 gpm (.49 L/min.)	V Viton	/AP Stainless Steel, Passivated
K Handknob	F .198 gpm (.75 L/min.)		
X Not Adjustable	G .291 gpm (1.10 L/min.)		
	H .41 gpm (1.55 L/min.)		
	J .528 gpm (2.0 L/min.)		
	K .661 gpm (2.50 L/min.)		
	L .819 gpm (3.10 L/min.)		
	M 1.057 gpm (4.00 L/min.)		
	N 1.321 gpm (5.00 L/min.)		
	P 1.585 gpm (6.0 L/min.)		
	R 2.008 gpm (7.6 L/min.)		
	S 2.378 gpm (9.0 L/min.)		
	T 2.642 gpm (10.0 L/min.)		
	V 3.012 gpm (11.40 L/min.)		

TECHNICAL FEATURES

- Factory set flow valve ratings are within +/- 15% of the nominal range/setting.
- 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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- The tuneable control option provides +/- 20% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase and counterclockwise to decrease.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





in (mm)

Fixed-orifice, 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. 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
Valve Hex Size	22,2 mm
Valve Installation Torque	41 - 47 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Seal kit - Cartridge	Buna: 990010007
Seal kit - Cartridge	Polyurethane: 990010002
Seal kit - Cartridge	Viton: 990010006
Model Weight	0.10 kg.

CONFIGURATION OPTIONS

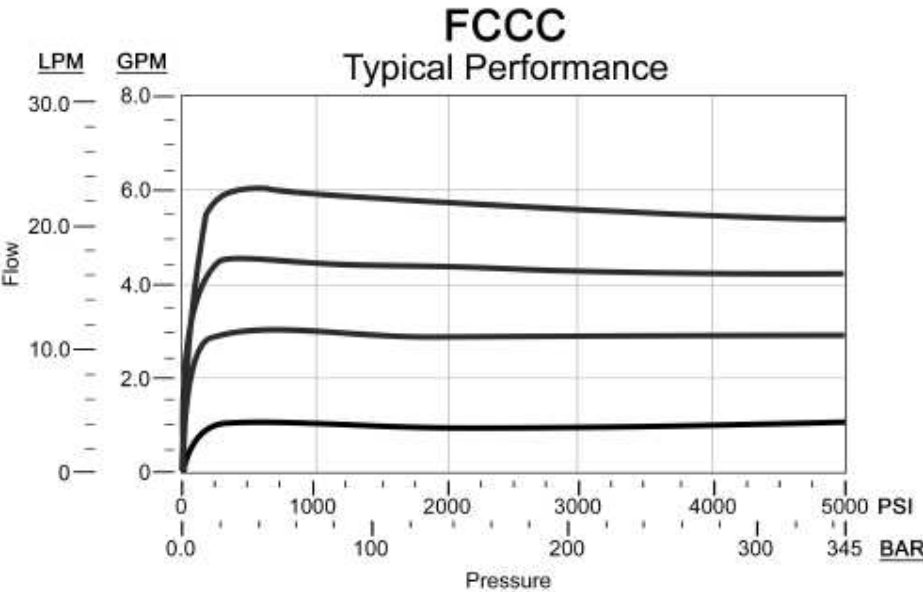
Model Code Example: FCCCXAN

CONTROL	(X)	FLOW RATE	(A)	SEAL MATERIAL	(N)
X Not Adjustable		A .106 gpm (.4 L/min.)		N Buna-N	
C Tamper Resistant - Factory Set		B .145 gpm (.55 L/min.)		V Viton	
K Handknob		C .198 gpm (.75 L/min.)			
L Standard Screw Adjustment		D .291 gpm (1.10 L/min.)			
		F .409 gpm (1.55 L/min.)			
		G .528 gpm (2.0 L/min.)			
		H .66 gpm (2.5 L/min.)			
		J .819 gpm (3.10 L/min.)			
		K 1 gpm (4 L/min.)			
		L 1.28 gpm (4.85 L/min.)			
		M 1.58 gpm (6.0 L/min.)			
		N 1.98 gpm (7.50 L/min.)			
		P 2.44 gpm (9.25 L/min.)			
		R 3.03 gpm (11.5 L/min.)			
		S 3.76 gpm (14.2 L/min.)			
		T 4.62 gpm (17.5 L/min.)			
		V 5.81 gpm (22.0 L/min.)			

TECHNICAL FEATURES

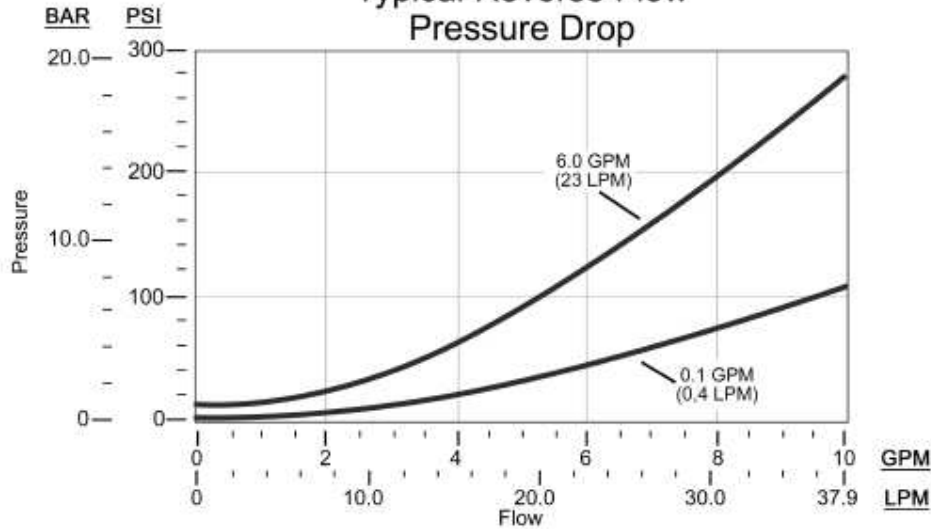
- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Customer must select a nominal flow setting range from the available options. Factory flow settings are within +/- 10% of the nominal flow setting for the "L" and "K" controls and within +/- 15% for the "X" control.
- The tunable control options, "L" control and "K" control, provide +/- 25% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase flow and counterclockwise to decrease it.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

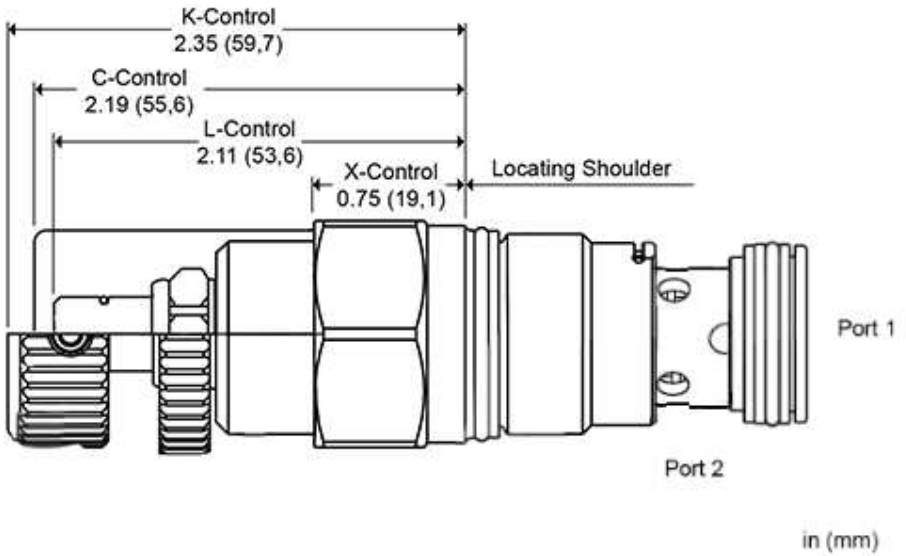
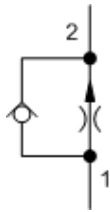
PERFORMANCE CURVES



FCCC

Typical Reverse Flow Pressure Drop





Fixed-orifice, 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. 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-5A
Series	2
Capacity	45 L/min.
Maximum Operating Pressure	350 bar
Valve Hex Size	28,6 mm
Valve Installation Torque	61 - 68 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990203007
Seal kit - Cartridge	Viton: 990203006

CONFIGURATION OPTIONS

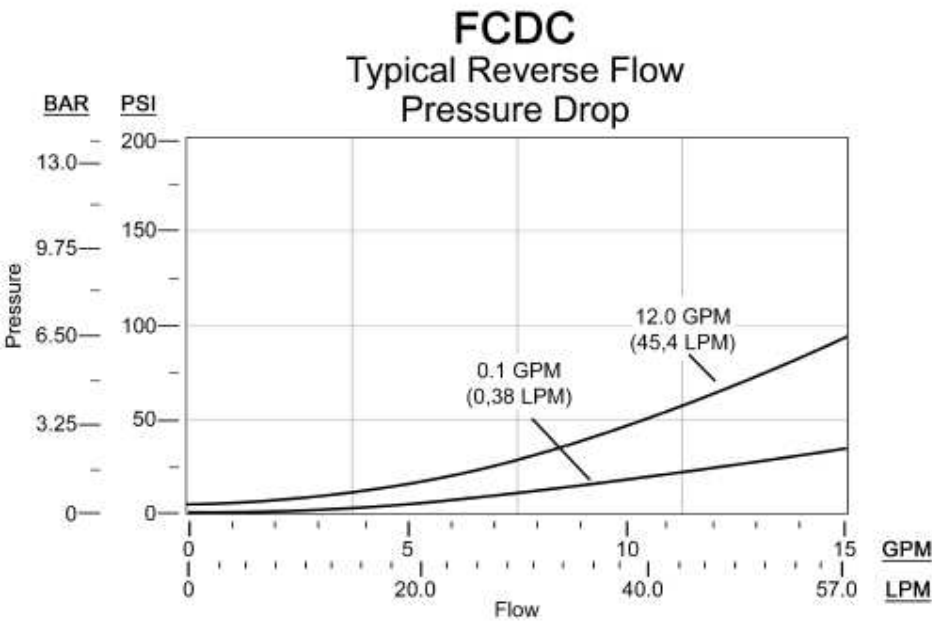
Model Code Example: FCDCXAN

CONTROL	(X)	FLOW RATE	(A)	SEAL MATERIAL	(N)
X	Not Adjustable	A	.106 gpm (.4 L/min.)	N	Buna-N
C	Tamper Resistant - Factory Set	B	.264 gpm (1.0 L/min.)	V	Viton
K	Handknob	C	.528 gpm (2.0 L/min.)		
L	Standard Screw Adjustment	D	.793 gpm (3.0 L/min.)		
		F	.991 gpm (3.75 L/min.)		
		G	1.215 gpm (4.6 L/min.)		
		H	1.479 gpm (5.6 L/min.)		
		J	1.823 gpm (6.9 L/min.)		
		K	2.245 gpm (8.5 L/min.)		
		L	2.774 gpm (10.5 L/min.)		
		M	3.434 gpm (13.0 L/min.)		
		N	4.227 gpm (16.0 L/min.)		
		P	5.178 gpm (19.6 L/min.)		
		R	6.472 gpm (24.5 L/min.)		
		S	7.925 gpm (30.0 L/min.)		
		T	9.774 gpm (37.0 L/min.)		
		V	11.888 gpm (45.0 L/min.)		

TECHNICAL FEATURES

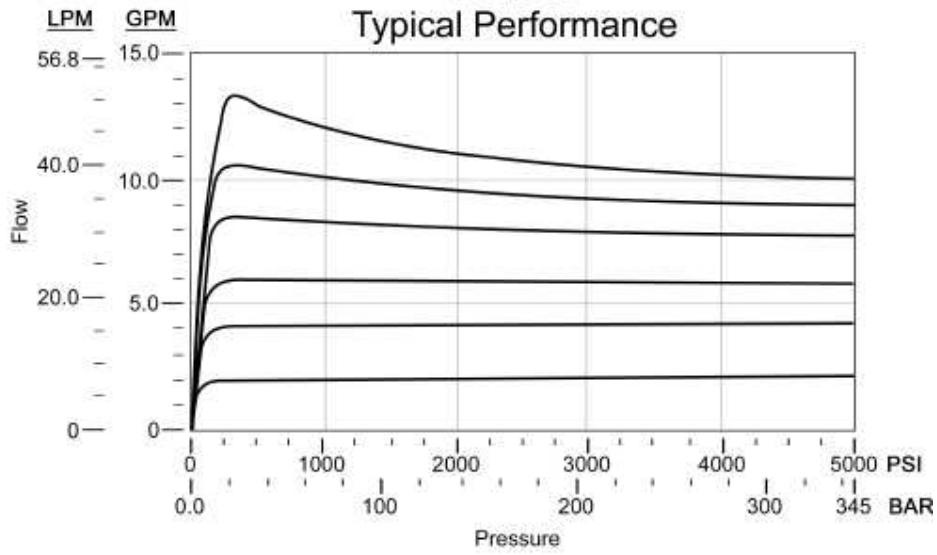
- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Customer must select a nominal flow setting range from the available options. Factory flow settings are within +/- 10% of the nominal flow setting for the “L” and “K” controls and within +/- 15% for the “X” control.
- The tunable control options, “L” control and “K” control, provide +/- 25% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase flow and counterclockwise to decrease it.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

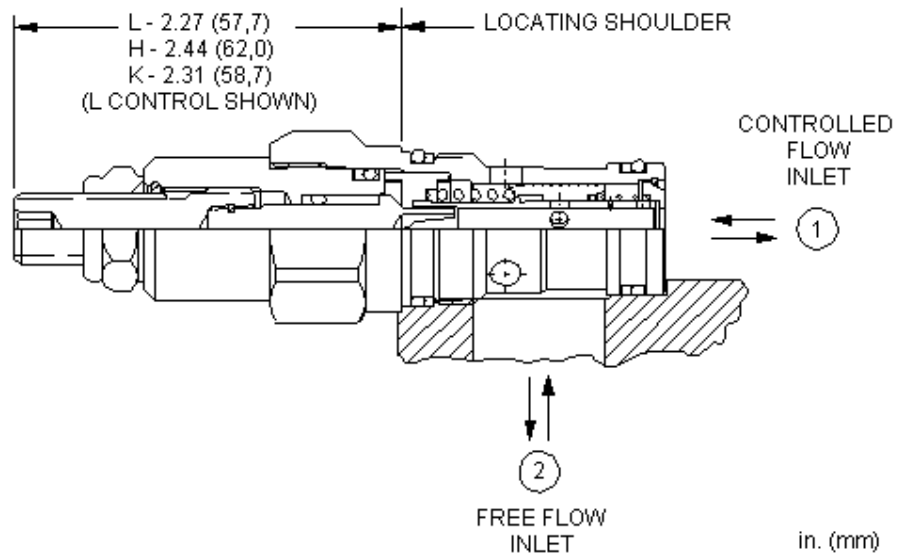
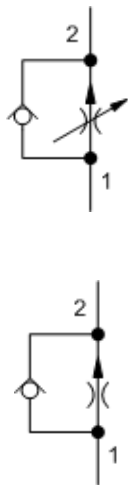
PERFORMANCE CURVES



FCDC

Typical Performance





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

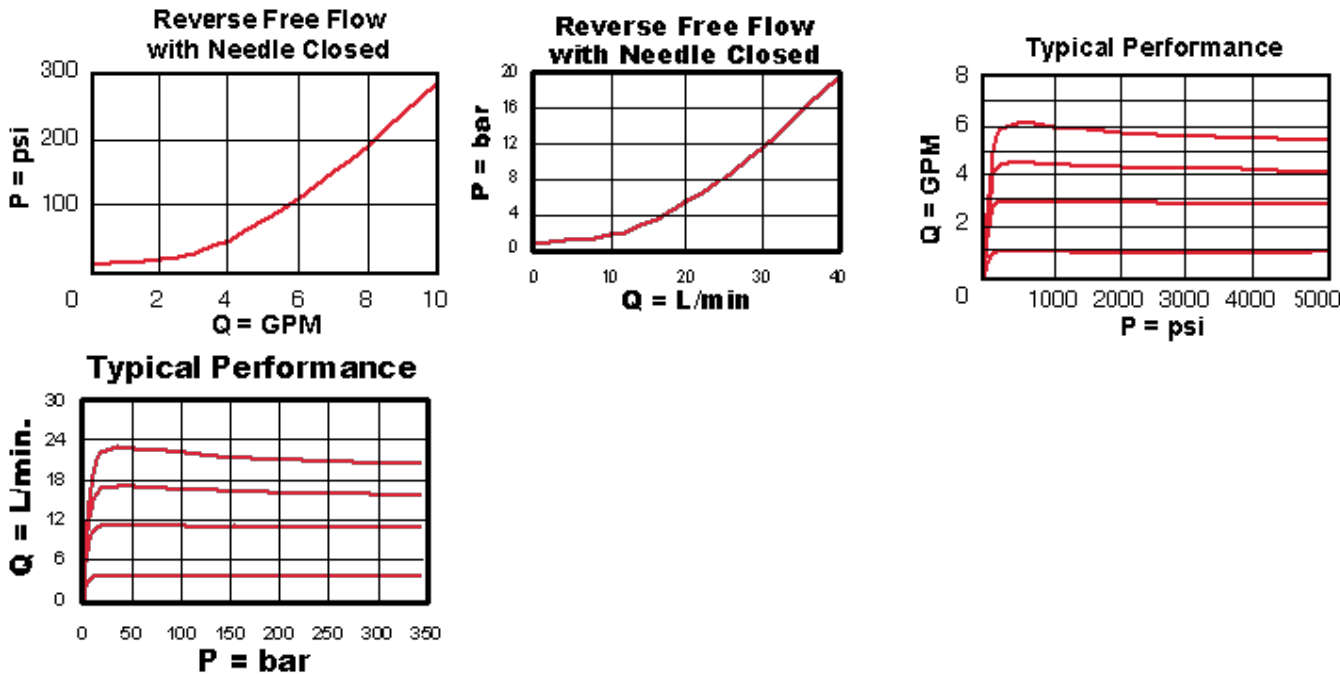
Model Code Example: FDBAArray

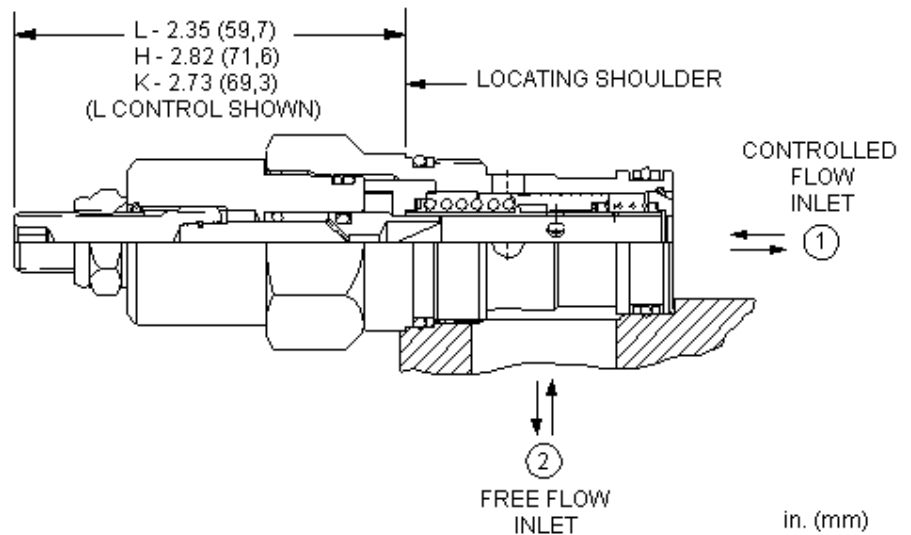
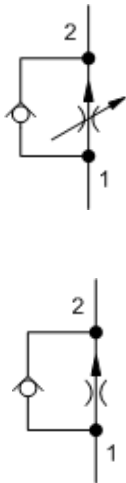
CONTROL	(L) ADJUSTMENT RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
L Standard Screw Adjustment	A .1 - 6 gpm (0,4 - 23 L/min.)	N Buna-N	Standard Material/Coating
H Calibrated Handknob with Detent Lock	B .1 - 2 gpm (0,4 - 8 L/min.)	E EPDM	/AP Stainless Steel, Passivated
K Handknob		L Buna (low temp)	/LH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

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





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-5A
Series	2
Capacity	45 L/min.
Maximum Operating Pressure	350 bar
Adjustment - No. of CCW Turns from Fully Closed to Fully Open	5
Valve Hex Size	28,6 mm
Valve Installation Torque	61 - 68 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990203007
Seal kit - Cartridge	EPDM: 990203014
Seal kit - Cartridge	Viton: 990203006
Model Weight	0.28 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

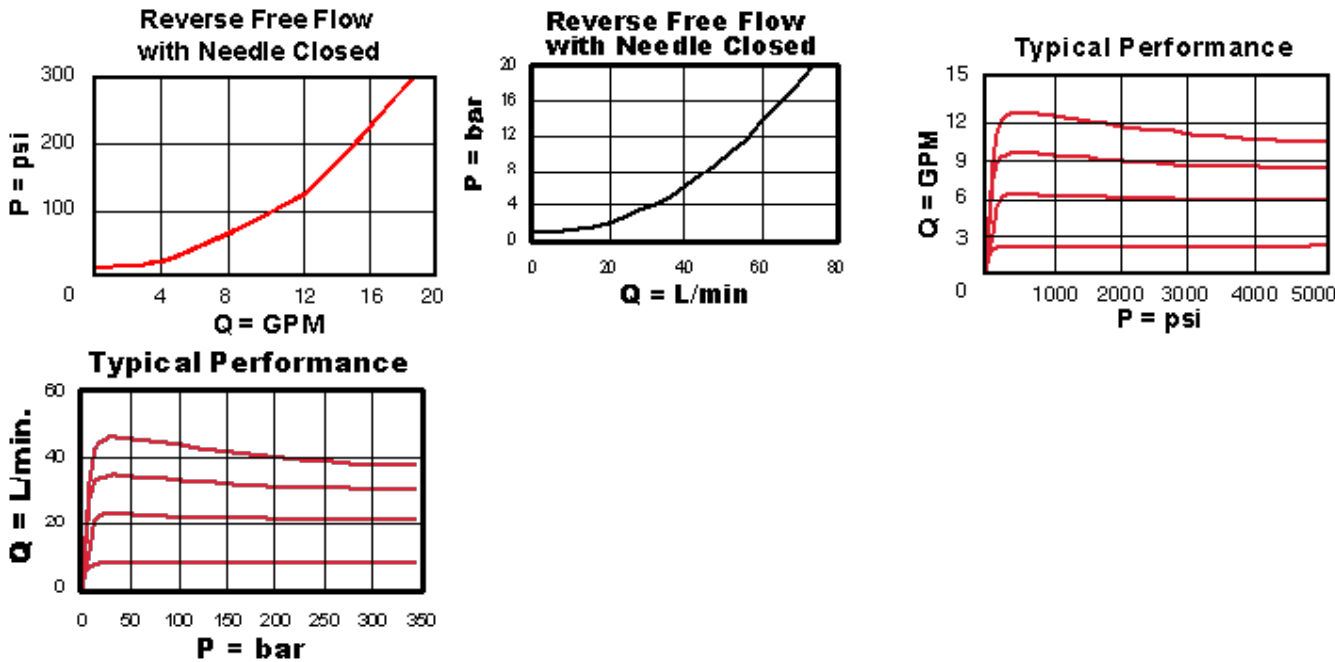
Model Code Example: FDCBArray

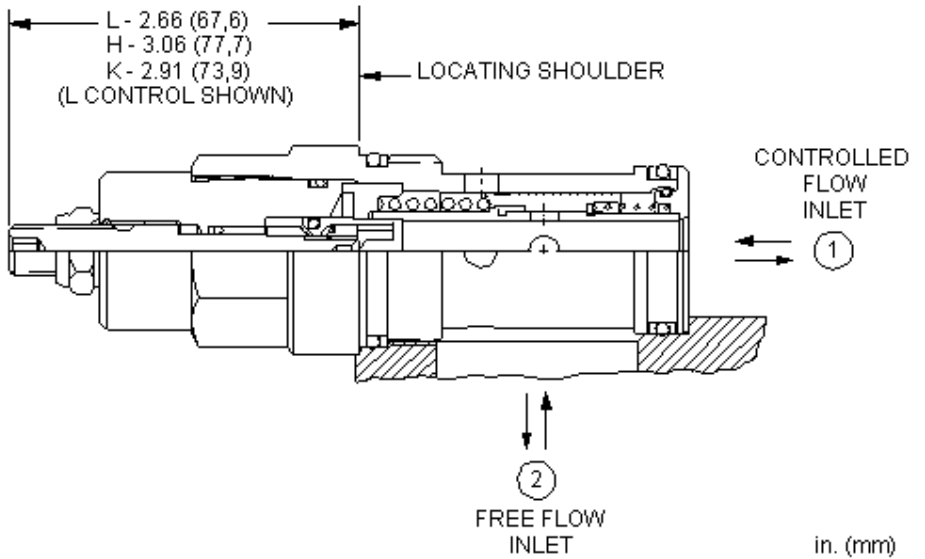
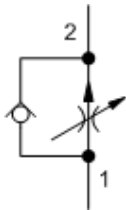
CONTROL	(L) ADJUSTMENT RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
L Standard Screw Adjustment	A .2 - 12 gpm (0,8 - 45 L/min.)	N Buna-N	Standard Material/Coating
H Calibrated Handknob with Detent Lock	B .2 - 3 gpm (0,8 - 11 L/min.)	E EPDM	/LH Mild Steel, Zinc-Nickel
K Handknob		V Viton	
Y Tri-Grip Handknob			

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





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

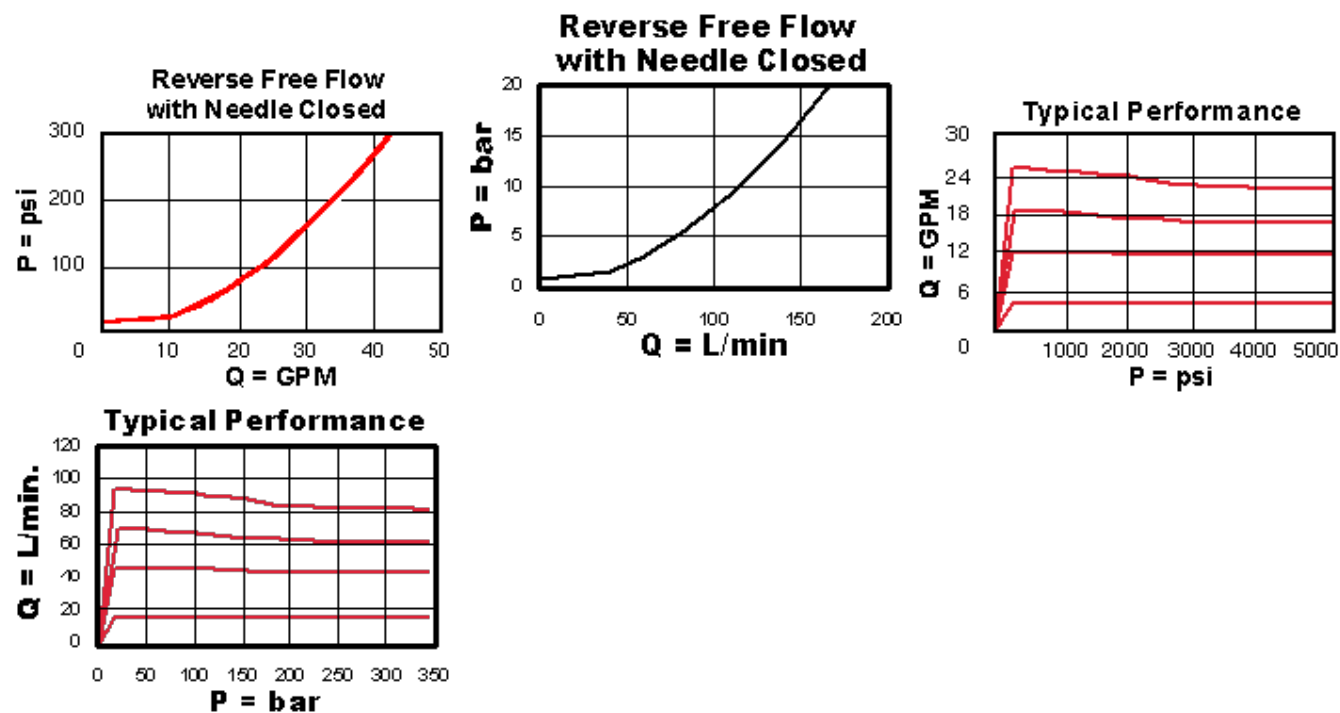
Model Code Example: FDEALAN

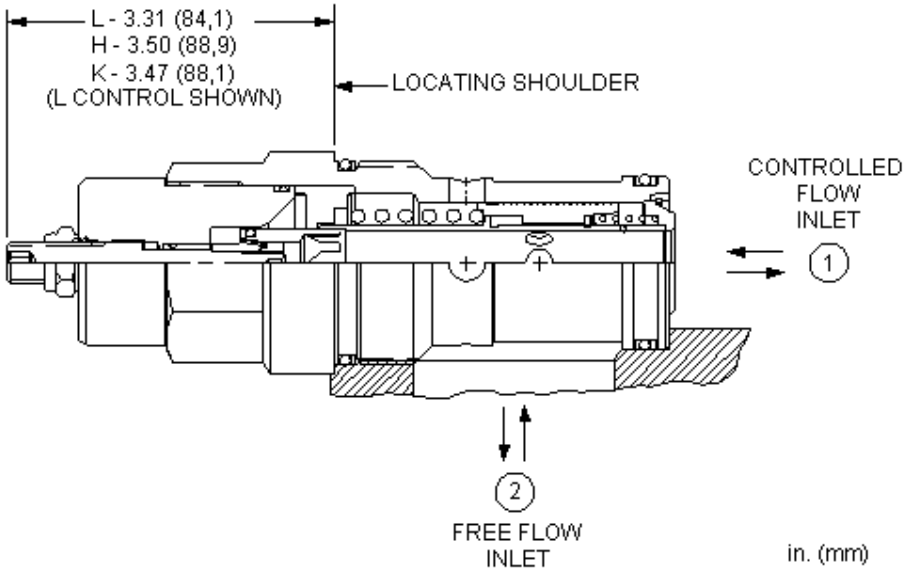
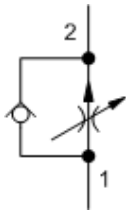
CONTROL	(L) ADJUSTMENT RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
L Standard Screw Adjustment	A .2 - 25 gpm (0,8 - 95 L/min.)	N Buna-N	Standard Material/Coating
H Calibrated Handknob with Detent Lock	B .2 - 16 gpm (0,8 - 60 L/min.)	E EPDM	/LH Mild Steel, Zinc-Nickel
K Handknob		V Viton	
Y Tri-Grip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





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-18A
Series	4
Capacity	200 L/min.
Maximum Operating Pressure	350 bar
Adjustment - No. of CCW Turns from Fully Closed to Fully Open	5
Valve Hex Size	41,3 mm
Valve Installation Torque	474 - 508 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990018007
Seal kit - Cartridge	EPDM: 990018014
Seal kit - Cartridge	Polyurethane: 990018002
Seal kit - Cartridge	Viton: 990018006
Model Weight	1.25 kg.

CONFIGURATION OPTIONS

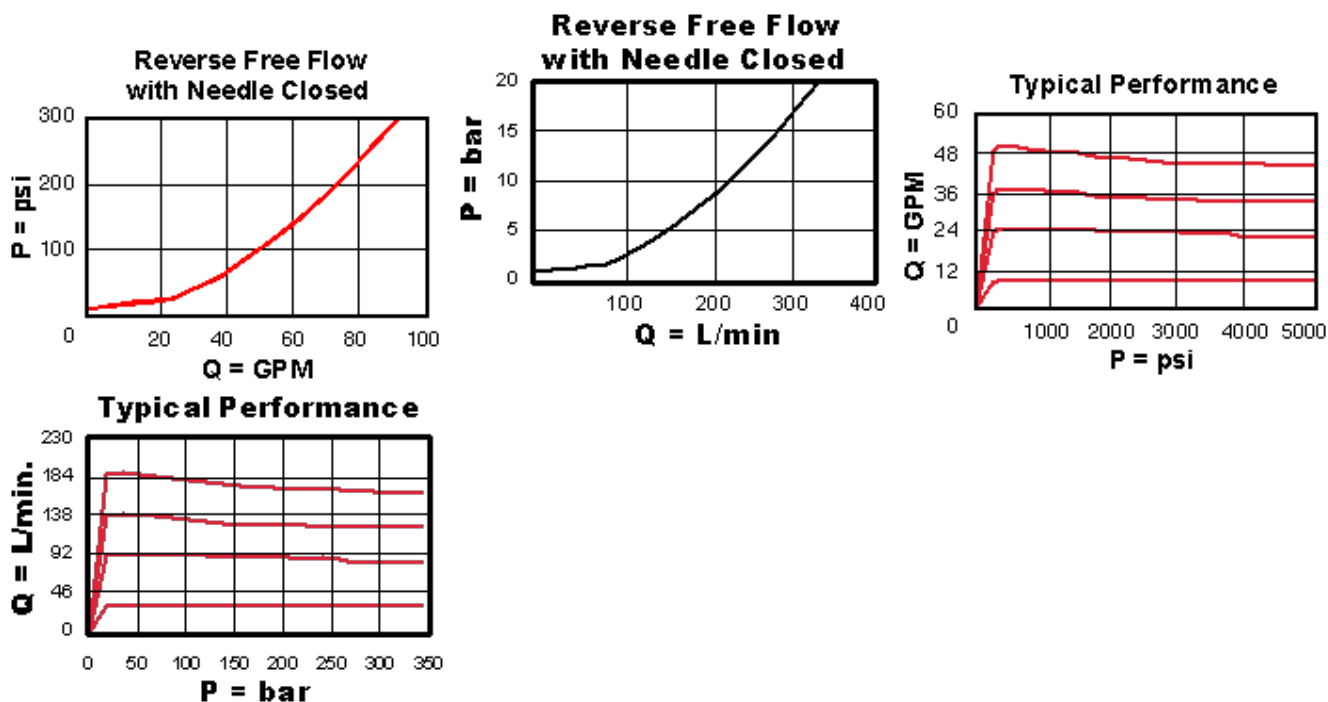
Model Code Example: FDFALAN

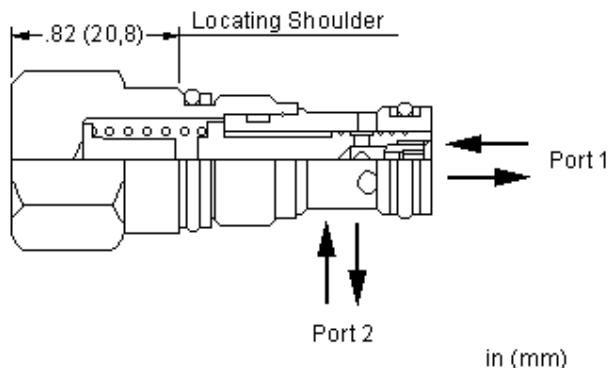
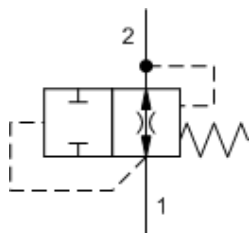
CONTROL	(L) ADJUSTMENT RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
L Standard Screw Adjustment	A .2 - 50 gpm (1 - 200 L/min.)	N Buna-N	Standard Material/Coating
H Calibrated Handknob with Detent Lock		E EPDM	/AP Stainless Steel, Passivated
K Handknob		V Viton	/LH Mild Steel, Zinc-Nickel
Y Tri-Grip Handknob			

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 .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





Flow fuse cartridges are used to maintain the position of a hydraulic actuator in the event of a hose or line break. The valve allows flow to and from the actuator but closes instantly if flow from the actuator exceeds the setting of the valve. NOTE: Because the valve responds so rapidly, it is sensitive to any transient flow above the valve setting.

TECHNICAL DATA

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

Cavity	T-162A
Series	0
Capacity	8,5 L/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	15 cc/min.@70 bar
Valve Hex Size	19,1 mm
Valve Installation Torque	27 - 33 Nm
Seal kit - Cartridge	Buna: 990162007
Seal kit - Cartridge	EPDM: 990162014
Seal kit - Cartridge	Polyurethane: 990162002
Seal kit - Cartridge	Viton: 990162006
Model Weight	0.07 kg.

CONFIGURATION OPTIONS

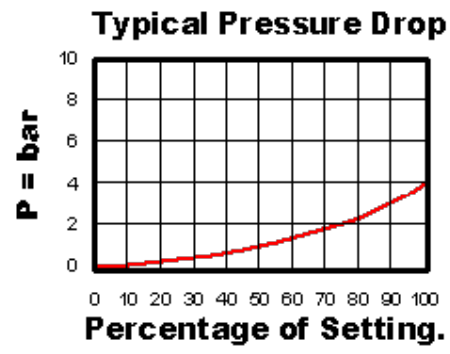
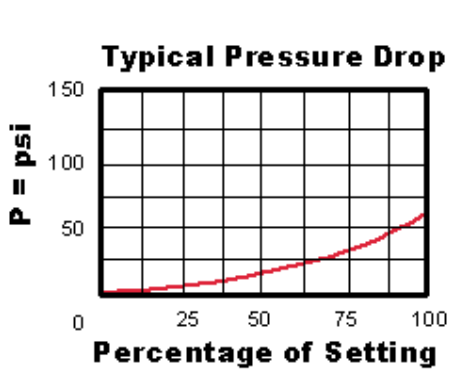
Model Code Example: FQBAXAN

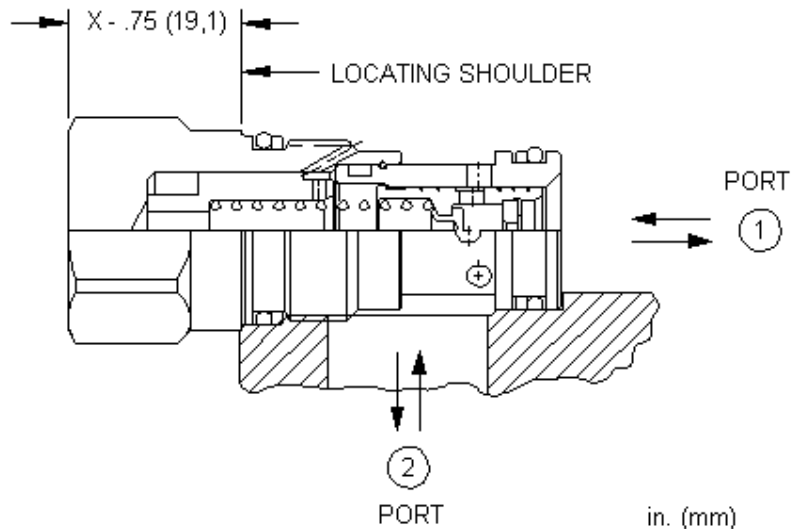
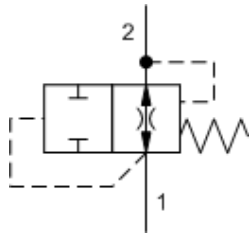
CONTROL	(X)	SETTING RANGE	(A)	SEAL MATERIAL	(N)	MATERIAL/COATING
X Not Adjustable		A Replaceable Orifice .5 - 2.25 gpm (2 - 8,5 L/min.)		N Buna-N E EPDM V Viton		Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 15% of the requested setting.
- 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.
- Valve closes when flow from port 1 to port 2 exceeds the setting of the valve. Valve resets when pressures at port 1 and port 2 are equal.
- Flow setting should be at least 25% above maximum normal system flow. Customer must specify flow when ordering valve.
- These are spool type valves, therefore there is leakage. Some actuator drift may occur.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Flow fuse cartridges are used to maintain the position of a hydraulic actuator in the event of a hose or line break. The valve allows flow to and from the actuator but closes instantly if flow from the actuator exceeds the setting of the valve. NOTE: Because the valve responds so rapidly, it is sensitive to any transient flow above the valve setting.

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
Maximum Valve Leakage at 110 SUS (24 cSt)	30 cc/min. @70 bar
Valve Hex Size	22,2 mm
Valve Installation Torque	41 - 47 Nm
Seal kit - Cartridge	Buna: 990010007
Seal kit - Cartridge	Polyurethane: 990010002
Seal kit - Cartridge	Viton: 990010006
Model Weight	0.10 kg.

CONFIGURATION OPTIONS

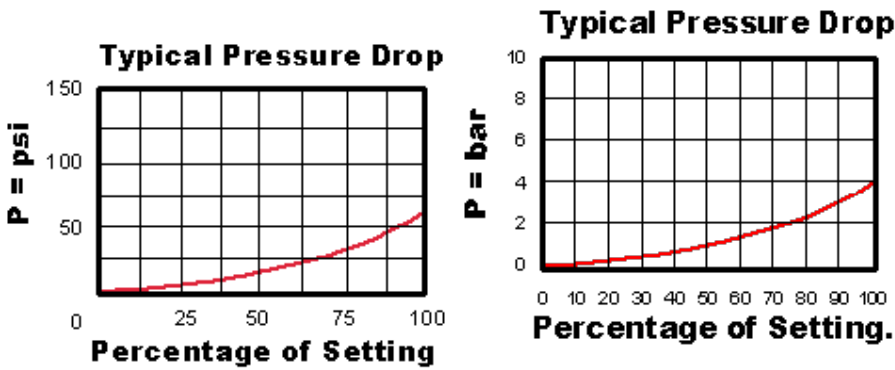
Model Code Example: FQCAXAN

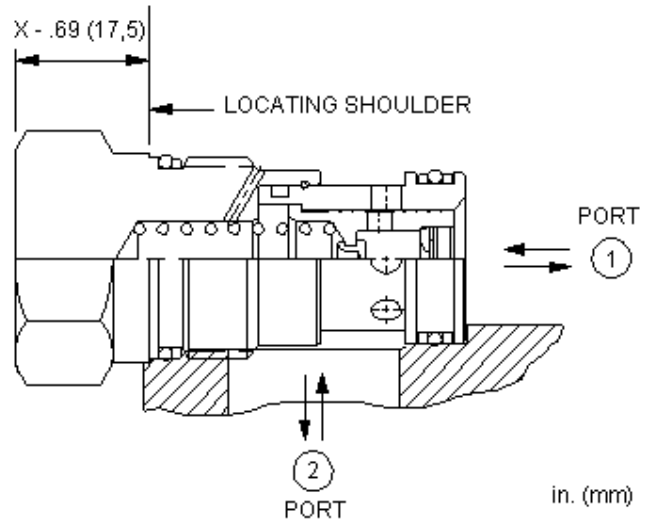
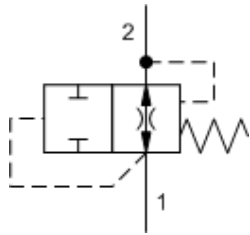
CONTROL	(X) SETTING RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A Replaceable Orifice .5 - 6 gpm (2 - 23 L/min.)	N Buna-N V Viton	Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- Valve closes when flow from port 1 to port 2 exceeds the setting of the valve. Valve resets when pressures at port 1 and port 2 are equal.
- Flow setting should be at least 25% above maximum normal system flow. Customer must specify flow when ordering valve.
- These are spool type valves, therefore there is leakage. Some actuator drift may occur.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Flow fuse cartridges are used to maintain the position of a hydraulic actuator in the event of a hose or line break. The valve allows flow to and from the actuator but closes instantly if flow from the actuator exceeds the setting of the valve. NOTE: Because the valve responds so rapidly, it is sensitive to any transient flow above the valve setting.

TECHNICAL DATA

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

Cavity	T-5A
Series	2
Capacity	60 L/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	50 cc/min. @70 bar
Valve Hex Size	28,6 mm
Valve Installation Torque	61 - 68 Nm
Seal kit - Cartridge	Buna: 990203007
Seal kit - Cartridge	Viton: 990203006
Model Weight	0.19 kg.

CONFIGURATION OPTIONS

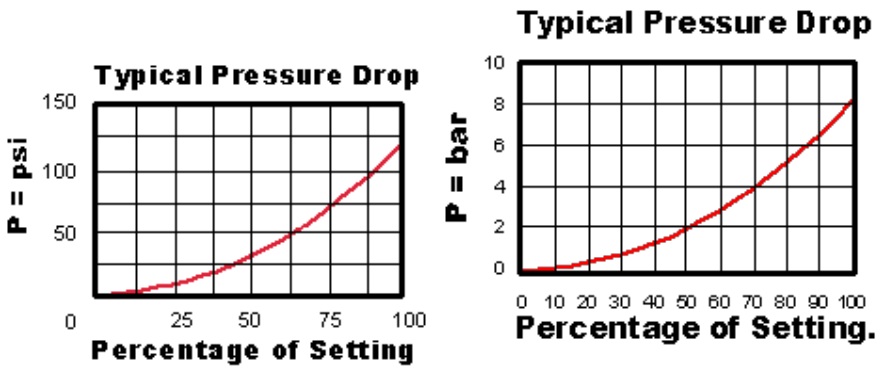
Model Code Example: FQEAXAN

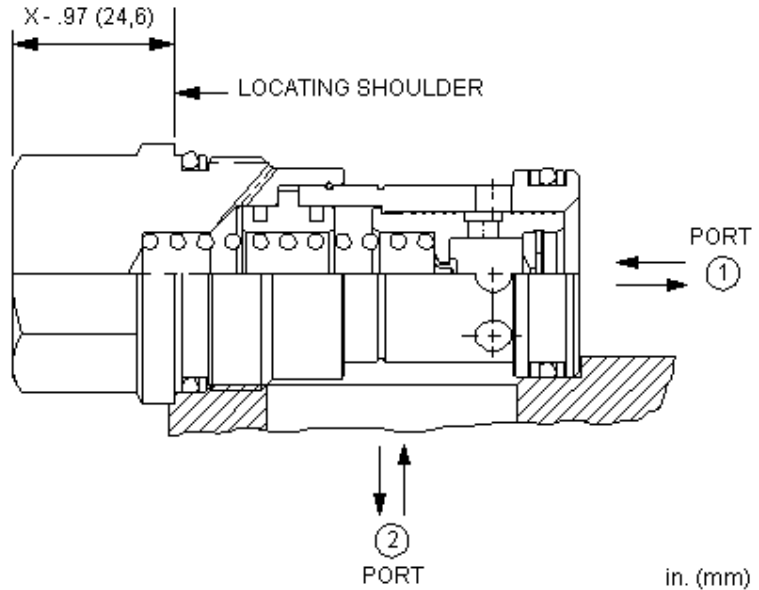
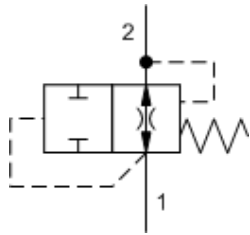
CONTROL	(X) SETTING RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A Replaceable Orifice 1 - 15 gpm (4 - 60 L/min.)	N Buna-N V Viton	Standard Material/Coating /AP Stainless Steel, Passivated

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- Valve closes when flow from port 1 to port 2 exceeds the setting of the valve. Valve resets when pressures at port 1 and port 2 are equal.
- Flow setting should be at least 25% above maximum normal system flow. Customer must specify flow when ordering valve.
- These are spool type valves, therefore there is leakage. Some actuator drift may occur.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP or /LH (see CONFIGURATION section). For further details, please see the Materials of Construction page under TECHNICAL RESOURCES.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Flow fuse cartridges are used to maintain the position of a hydraulic actuator in the event of a hose or line break. The valve allows flow to and from the actuator but closes instantly if flow from the actuator exceeds the setting of the valve. NOTE: Because the valve responds so rapidly, it is sensitive to any transient flow above the valve setting.

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
Maximum Valve Leakage at 110 SUS (24 cSt)	65 cc/min. @70 bar
Valve Hex Size	31,8 mm
Valve Installation Torque	203 - 217 Nm
Seal kit - Cartridge	Buna: 990016007
Seal kit - Cartridge	Polyurethane: 990016002
Seal kit - Cartridge	Viton: 990016006
Model Weight	0.46 kg.

CONFIGURATION OPTIONS

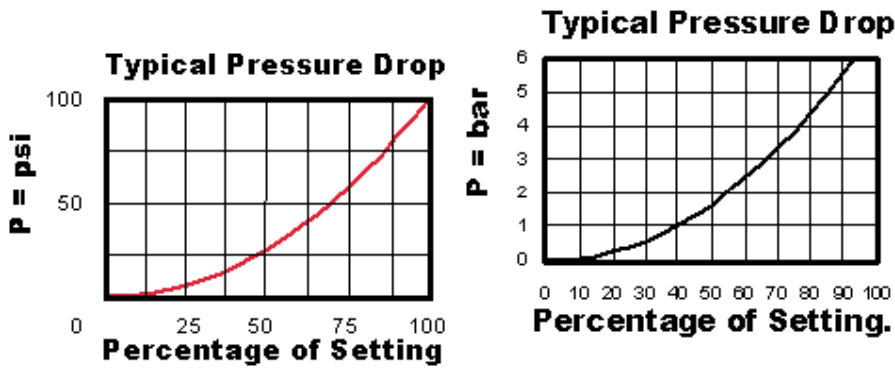
Model Code Example: **FQGAXAN**

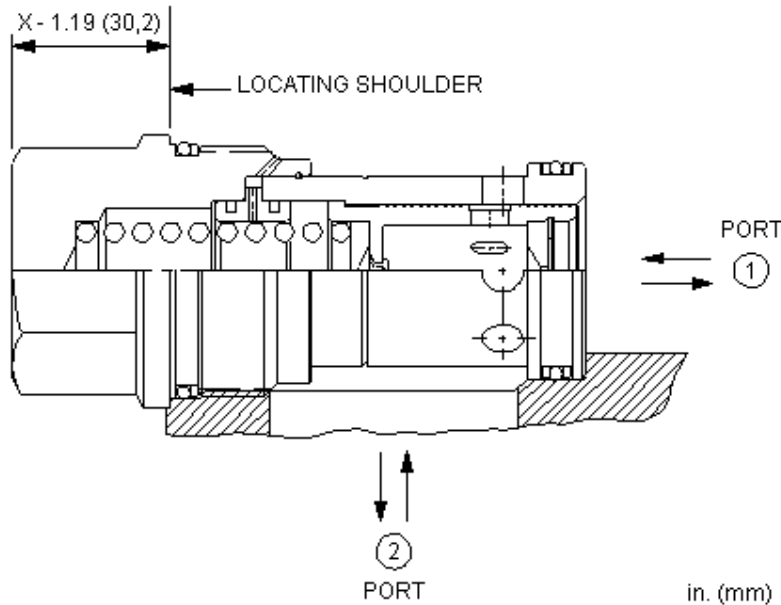
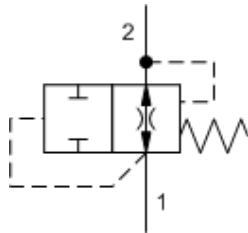
CONTROL	(X) SETTING RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A Replaceable Orifice 1 - 25 gpm (4 - 95 L/min.)	N Buna-N V Viton	Standard Material/Coating /AP Stainless Steel, Passivated

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- Valve closes when flow from port 1 to port 2 exceeds the setting of the valve. Valve resets when pressures at port 1 and port 2 are equal.
- Flow setting should be at least 25% above maximum normal system flow. Customer must specify flow when ordering valve.
- These are spool type valves, therefore there is leakage. Some actuator drift may occur.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES





Flow fuse cartridges are used to maintain the position of a hydraulic actuator in the event of a hose or line break. The valve allows flow to and from the actuator but closes instantly if flow from the actuator exceeds the setting of the valve. NOTE: Because the valve responds so rapidly, it is sensitive to any transient flow above the valve setting.

TECHNICAL DATA

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

Cavity	T-18A
Series	4
Capacity	200 L/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	80 cc/min.@70 bar
Valve Hex Size	41,3 mm
Valve Installation Torque	474 - 508 Nm
Seal kit - Cartridge	Buna: 990018007
Seal kit - Cartridge	Polyurethane: 990018002
Seal kit - Cartridge	Viton: 990018006
Model Weight	0.92 kg.

CONFIGURATION OPTIONS

Model Code Example: FQIAXAN

CONTROL	(X) SETTING RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
X Not Adjustable	A Replaceable Orifice 1 - 50 gpm (4 - 200 L/min.)	N Buna-N V Viton	Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- Valve closes when flow from port 1 to port 2 exceeds the setting of the valve. Valve resets when pressures at port 1 and port 2 are equal.
- Flow setting should be at least 25% above maximum normal system flow. Customer must specify flow when ordering valve.
- These are spool type valves, therefore there is leakage. Some actuator drift may occur.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES

