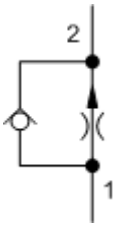
Fixed-orifice pressure compensated flow control valve with reverse flow check

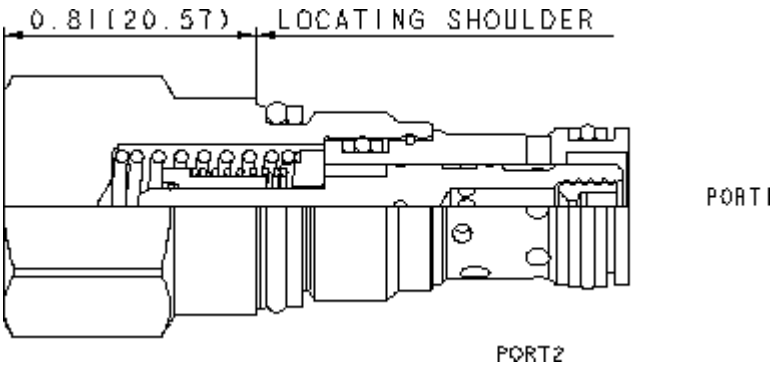
CAPACITY: 3 gpm / CAVITY: T-162A

sunhydraulics.com/model/FCBB



CONFIGURATION

X	Control	Not Adjustable
A	Setting Range	Replaceable Orifice .1 - 3 gpm (0,4 - 11 L/min.)
N	Seal Material	Buna-N
	Material/Coating	



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-162A
Series	0
Capacity	3 gpm
Maximum Operating Pressure	5000 psi
Valve Hex Size	3/4 in.
Valve Installation Torque	20 - 25 lbf ft
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Model Weight	0.16 lb.
Seal kit - Cartridge	Buna: 990-162-007
Seal kit - Cartridge	Polyurethane: 990-162-002
Seal kit - Cartridge	Viton: 990-162-006

OPTION SELECTION EXAMPLE: FCBBXAN

CONTROL	(X)
X	Not Adjustable
C	Tamper Resistant - Factory Set
K	Handknob
L	Tuning Adjustment

SETTING RANGE	(A)
A	Replaceable Orifice .1 - 3 gpm (0,4 - 11 L/min.)

SEAL MATERIAL	(N)
N	Buna-N
V	Viton

MATERIAL/COATING	(/LH)
/LH	Mild Steel, Zinc-Nickel
/AP	Stainless Steel, Passivated
	Standard Material/Coating

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 15% 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