

HPB-FCF FIXED FLOW CONTROL VALVE, PRESSURE COMPENSATED

DESCRIPTION

"High Pressure" 8 size, 3/4-16 thread, "Power" series, pressure compensated flow control valve.

OPERATION

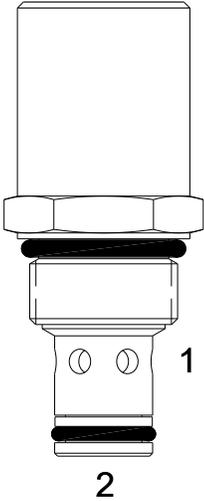
The HPB-FCF maintains a constant flow rate out of (1) regardless of load pressure changes in the circuit downstream of (1).

The valve begins to respond to load changes when the flow through the valve creates a pressure differential across the control orifice, in excess of the spring load. Consult graph for regulation performance.

Reverse flow (1) to (2) returns through the control orifice and is non-compensated.

FEATURES

- Hardened parts for long life.
- Industry common cavity.

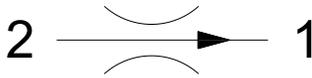


Best stability version for high differential circuits.

VALVE SPECIFICATIONS

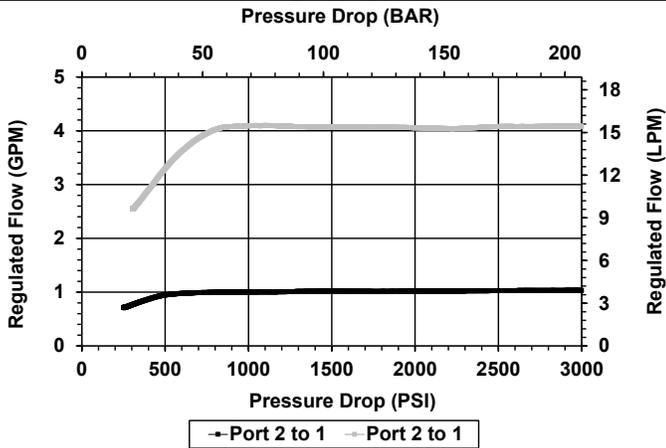
Nominal Flow	5 GPM (19 LPM)
Rated Operating Pressure	4200 PSI (290 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	0.26 lbs. (0.12 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	35 ft-lbs (47 Nm)
Cavity	POWER 2W
Cavity Form Tool (Finishing)	40500005
Seal Kit	21191100

HYDRAULIC SYMBOL



PERFORMANCE

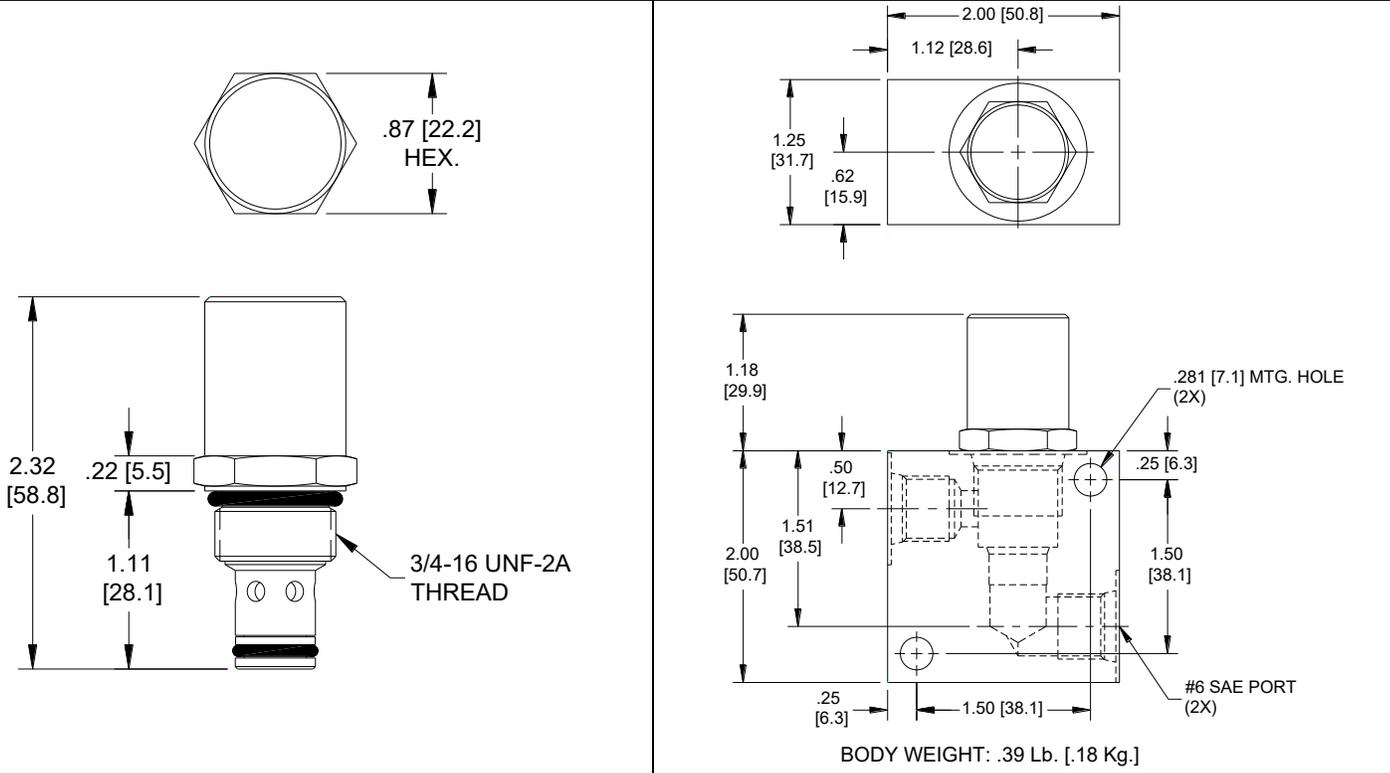
Actual Test Data (Cartridge Only)



11/2025

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

DIMENSIONS



ORDERING INFORMATION

HPB-FCF		-	-	-	-
OPTIONS					
Standard, Buna	00				Blank
Standard, Viton	V0				N
					S
					FLOW
				01.0	1 GPM
				02.0	2 GPM
				03.0	3 GPM
				04.0	4 GPM
				05.0	5 GPM
					+/-15%

BODIES
 Without Body
 1/4 NPTF Ports
 #6 SAE Ports

Note: Aluminum **NOT** durability rated for 4200 PSI. Consult factory for body options.

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