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3-Way Flow Regulator, Pressure Compensated

SF32A-B3/H 7/8-14 UNF • Q_{max} 50 l/min (13 GPM) • p_{max} 350 bar (5100 PSI)

Technical Features

> By-pass flow regulator, set flow rate independent of load pressure and temperature changes

ARGO

- > Adjusted flow rate depends on the orifice area and adjusted differential pressure
- Hardened precision parts
- High flow capacity
- Quiet and modulated responsed to load changes
- Used in meter-in applications
- Wide range of flow rate options
- > Adjustable by allen key or hand screw, optionally sealable (lockwire holes)
- > In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

Functional Description

A fixed-orifice, pressure compensated hydraulic flow regulating valve in the form of a screw-in cartridge with variable spring setting. It can be used as a priority flow regulator or a 2-way flow regulator when the by-pass port (2) is blocked.

This valve maintains a constant priority flow from port 1 to port 3 based on the adjustment, regardless of pressure changes downstream on port 3. Excessive flow is directed to port 2.

Symbol



Technical Data

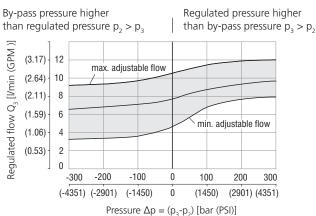
Valve size / Cartridge cavity			7/8-14 UNF-2A / B3			
Max. inlet flow (port 1)		l/min (GPM)	50 (13.2)			
Nominal flow rates			10	14	22	30
Adjustment range		l/min (GPM)	5 -10 (1.2 - 2.6)	6 - 14 (1.6 - 3.7)	11 - 22 (2.9 - 5.8)	17 - 30 (4.5 - 7.9)
Max. operating pressure		bar (PSI)	350 (5080)			
Fluid temperature range (NBR)		°C (°F)	-30 + 100 (-22 +212)			
Fluid temperature range (FPM)		°C (°F)	-20 +120 (-4 +248)			
Mass		kg (lbs)	0.24 (0.52)			
		Datasheet	Туре			
General Information		GI_0060	Products operating conditions			
Valve bodies	In-line mounted	SB_0018	SB-B3*			
	Sandwich mounted	SB-04(06)_0028	SB-*B3*			
Cavity details / Form tools		SMT_0019	SMT-B3*			
Spare parts		SP_8010				

Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

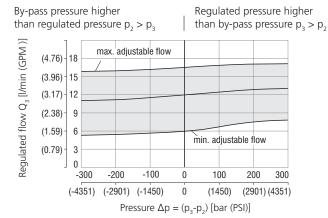
Regulated flow related to input pressure

Measured at constant inlet flow $Q_1 = 50$ l/min (13.21 GPM)

Flow rate 10



Flow rate 14



14



Regulated flow related to input pressure Measured at constant inlet flow $Q_1 = 50$ l/min (13.21 GPM)

Elow rate 22

