



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



## **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)			

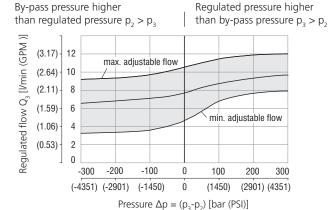
		Datasheet	Туре	
General Information		GI_0060	Products operating conditions	
Valve bodies	In-line mounted	SB_0018	SB-B3*	
	Sandwich mounted	SB-04(06)_0028	SB-*B3*	
Cavity details / Form tools SMT_0		SMT_0019	SMT-B3*	
Spare parts SP_8		SP_8010		

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

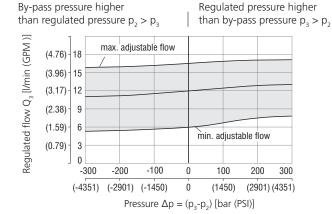
# Regulated flow related to input pressure

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

Flow rate 10



Flow rate 14



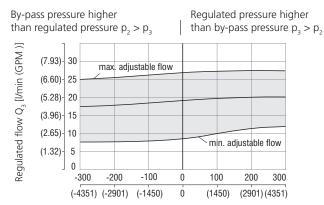
Page 1 www.argo-hytos.com



### Regulated flow related to input pressure

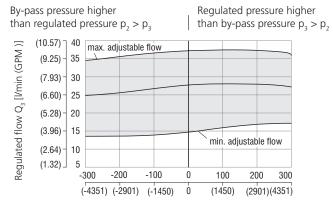
Measured at constant inlet flow  $Q_1 = 50 \text{ l/min} (13.21 \text{ GPM})$ 

### Flow rate 22



Pressure  $\Delta p = (p_3 - p_2)$  [bar (PSI)]

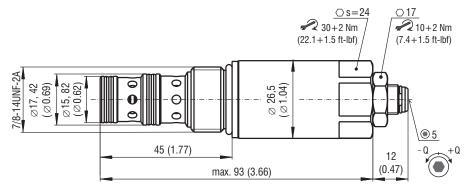
### Flow rate 30

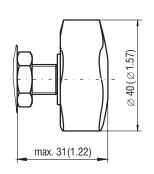


Pressure  $\Delta p = (p_3 - p_2)$  [bar (PSI)]

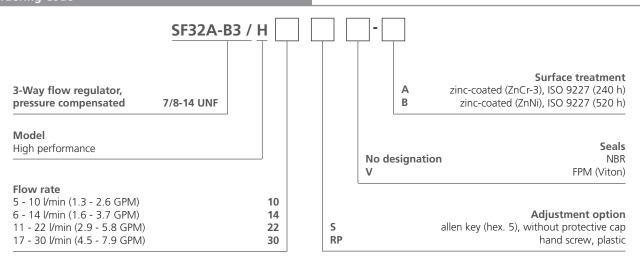
# **Dimensions** in millimeters (inches)







## **Ordering Code**



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