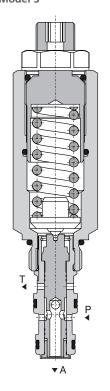


SP2A-A3/H

3/4-16 UNF • Q 20 l/min (5 GPM) • p 350 bar (5100 PSI)

Model S



Technical Features

- > Excellent stability throughout flow range with rapid response to dynamic pressure changes
- > Low hysteresis, accurate pressure control and low pressure drop
- Three-way valve with relief function for protection of actuator against pressure overloading
- > Wide range of input pressure up to 350 bar
- > Precise produced and hardened function parts
- Reduced pressure adjustable by allen key or hand screw
- In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227. Enhanced surface protection for mobile sector available for the steel parts (ISO 9227, 520 h salt spray)

Functional Description

Screw-in pressure reducing valve, direct acting, is designed for maintaining the constant pressure in the circuit of actuator, it means for adjusting the force on piston rod or torque on output shaft of hydraulic motor. The spool is a control part of the valve. The output pressure acts on the frontal surface of spool and is permanently compared with the reducing pressure adjusted by screw on the opposite side of the valve. The output pressure is regulated by throttling of input flow from the pump on the control edge of spool. The hydraulic damping of spool moving improves the stability of valve function.

If the actuator is overloaded, the spool closes the input of pressure fluid from the pump (P) and unloads the actuator circuit by connecting to the tank $(A \rightarrow T)$. The actuator is thus protected against pressure overloading.



Technical Data

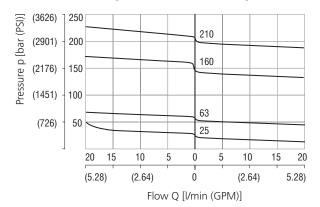
Valve size / Cartridge cavity		3/4-16 UNF-2A / A3 (C-8-3)			
Max. flow	l/min (GPM)	20 (5.3)			
Pressure range		2	6	16	21
Max. operating pressure (port P)	bar (PSI)	350 (5080)			
Reduced pressure range (at Q = 5 l/min)	bar	10-25	20-63	50-160	70-210
	(PSI)	(150-360)	(290-910)	(730-2320)	(1020-3050)
Max. back pressure (port T)	bar (PSI)	200 (3630)			
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 212)			
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 248)			
Weight	kg (lbs)	0.13 (0.29)			

		Datasheet	Туре
General information		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-A3*
	Sandwich mounted	SB-04(06)_0028	SB-*-A3*
Cavity details / Form tools		SMT_0019	SMT-A3*
Spare parts		SP_8010	

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

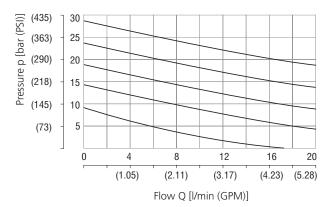
Reducing - relieving pressure related to flow rate

Relieving function $A \rightarrow T$ / Reducing function $P \rightarrow A$



Minimum reducing pressure related to flow rate

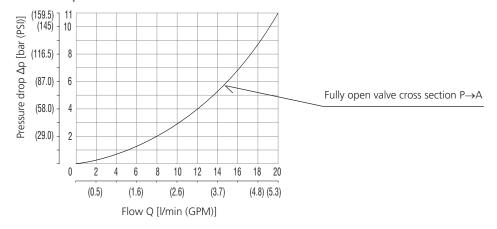
Pressure range 6



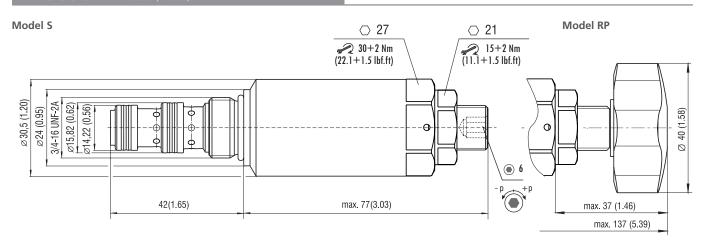
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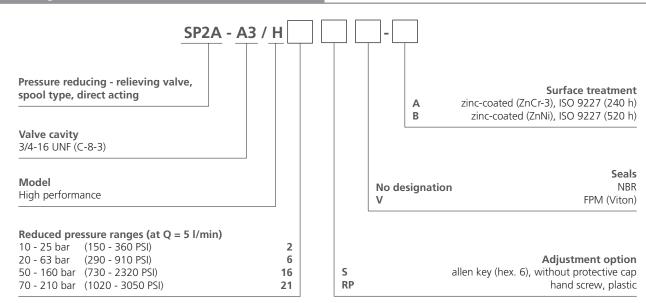
Pressure drop related to flow rate



Dimensions in millimeters (inches)



Ordering Code



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