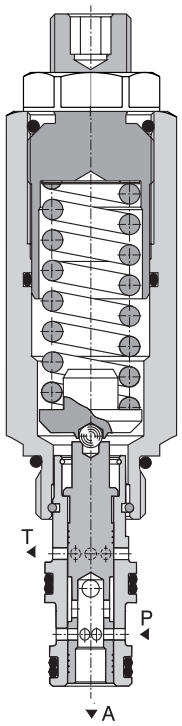
SP2A-A3/L

3/4-16 UNF • Q_{max} 20 l/min (5 GPM) • p_{max} 350 bar (5100 PSI)

Model S



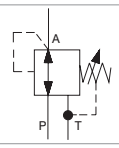
Technical Features

- 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

The valve provides an adjustable regulated pressure level below supply pressure. This direct acting model is suitable for applications with lower flow rates and lower regulated pressures. In case of shock or surge pressures in the downstream line the valve acts as a relief valve, directing excessive pressure and flow to the tank.

Symbol



Technical Data

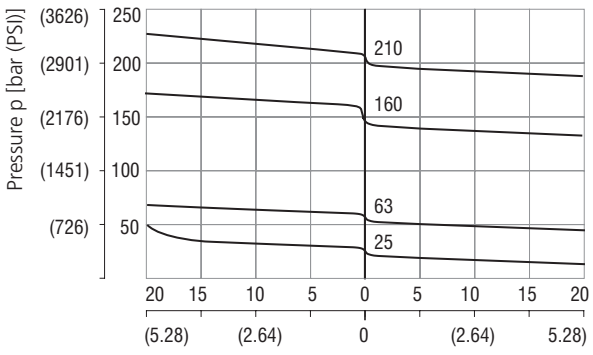
Valve size / Cartridge cavity		3/4-16 UNF-2A / A3 (C-8-3)			
Max. flow	l/min (GPM)	20 (5.3)			
Pressure range		2	6	16	21
Max. operating pressure (port P)	bar (PSI)	50 (730)	150 (2180)	250 (3630)	350 (5080)
Reduced pressure range (at Q = 5 l/min)	bar	10-25	20-63	50-160	100-210
	(PSI)	(150-360)	(290-910)	(730-2320)	(1450-3050)
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	Type
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 ν = 32 mm²/s (156 SUS)

Reducing - relieving pressure related to flow rate

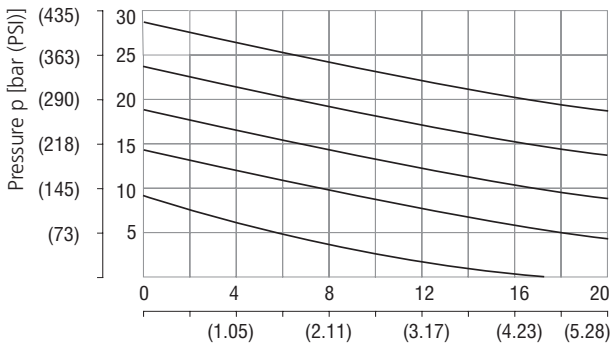
Relieving function A→T / Reducing function P→A



Flow Q [l/min (GPM)]

Minimum reducing pressure related to flow rate

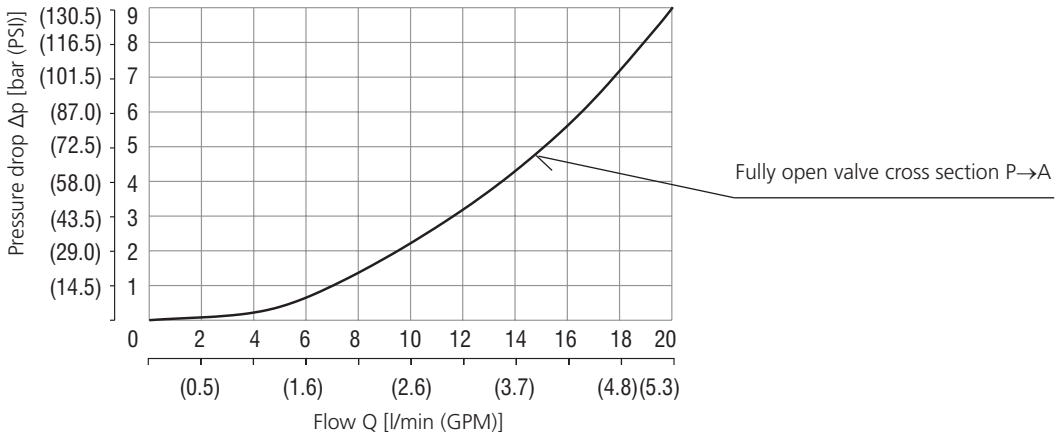
Pressure range 6



Flow Q [l/min (GPM)]

Characteristics measured at ν = 32 mm²/s (156 SUS)

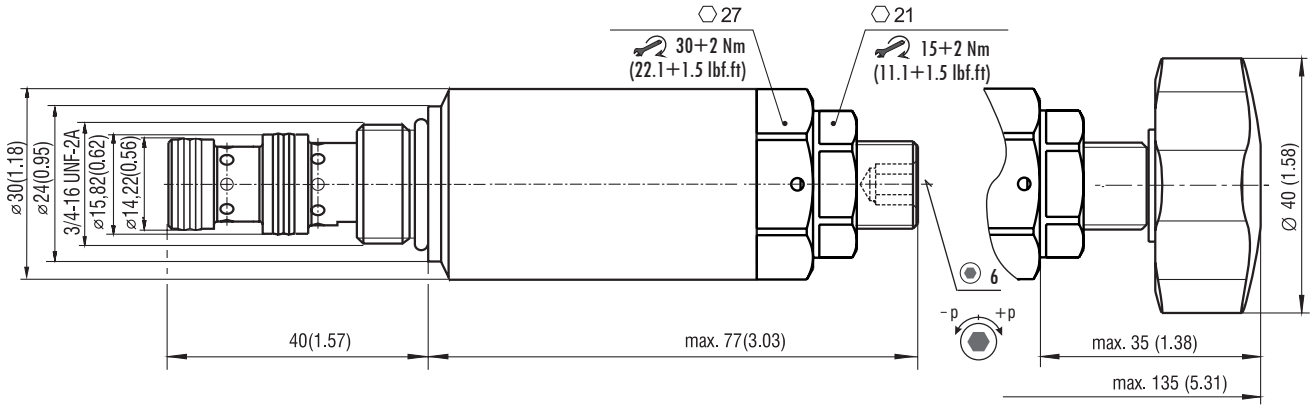
Pressure drop related to flow rate



Dimensions in millimeters (inches)

Model S

Model RP



Ordering Code

SP2A - A3 / L ☐ ☐ ☐ - ☐

Pressure reducing - relieving valve, spool type, direct acting

Valve cavity
3/4-16 UNF (C-8-3)

Model
Lightline

Reduced pressure ranges (at Q = 5 l/min)

10 - 25 bar	(150 - 360 PSI)	**2**
20 - 63 bar	(290 - 910 PSI)	**6**
50 - 160 bar	(730 - 2320 PSI)	**16**
100 - 210 bar	(1450 - 3050 PSI)	**21**

Adjustment option

S	allen key (hex. 6), without protective cap
RP	hand screw, plastic

Seals

No designation	NBR
V	FPM (Viton)

Surface treatment

A	zinc-coated (ZnCr-3), ISO 9227 (240 h)
B	zinc-coated (ZnNi), ISO 9227 (520 h)