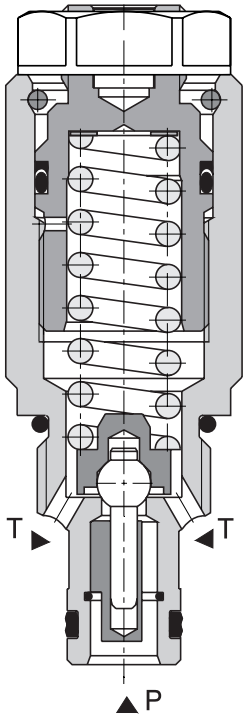
SR1A-A2

3/4-16 UNF • Q_{max} 30 l/min (8 GPM) • p_{max} 350 bar (5100 PSI)

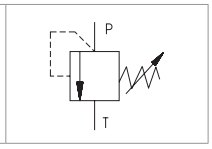


Technical Features

- Excellent stability throughout flow range with rapid response to dynamic pressure changes
- Low hysteresis, accurate pressure control and low pressure drop through CFD optimized flow paths
- Wide pressure range up to 350 bar
- Hardened precision parts
- Sharp-edged steel seats for dirt-tolerant performance
- Leak-free closing, suitable for fast cycling with long life
- Adjustable by allen key or hand screw
- In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

Functional Description

A poppet type, direct acting hydraulic relief valve in the form of a screw-in cartridge intended for use as a pressure limiting device for common hydraulic circuit protection. The spring acts on the poppet and presses it onto the valve seat. If the hydraulic pressure is below the pre-set value, the valve is closed. If the hydraulic force exceeds the pre-set value the valve opens and flow passes to the tank port until the system pressure falls below the spring pre-set value and the valve closes again.

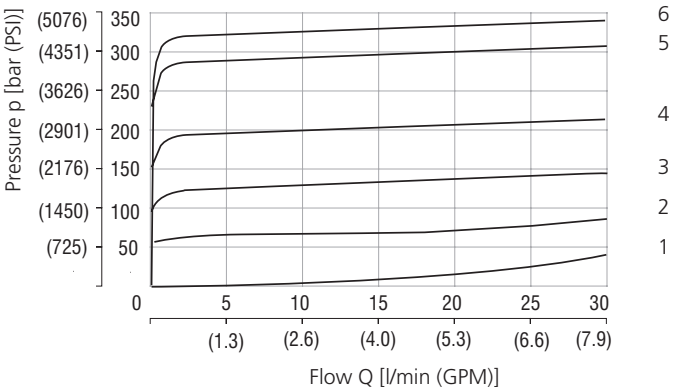
Symbol	

Technical Data

Valve size / Cartridge cavity			3/4-16 UNF-2A / A2 (C-8-2)
Max. flow		l/min (GPM)	30 (7.9)
Max. operating pressure		bar (PSI)	350 (5080)
Max. pressure (port T)		bar (PSI)	160 (2320)
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-A2*
	Sandwich mounted	SB-04(06)_0028	SB-*A2*
Cavity details / Form tools		SMT_0019	SMT-A2*
Spare parts		SP_8010	

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

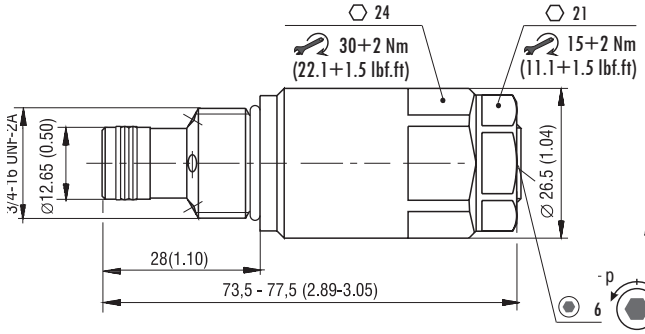
Relief pressure related to flow rate



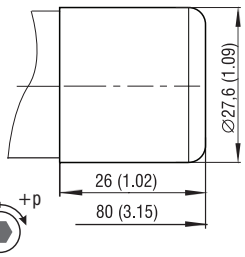
	Pressure range
6	35
5	25
4	16
3	10
2	6
1	Min. pressure setting

Dimensions in millimeters (inches)

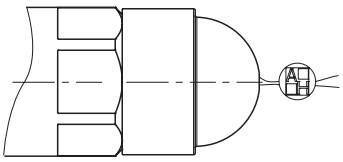
Model S



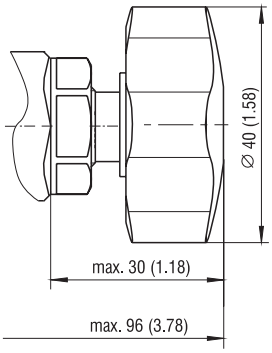
Model T



Model L



Typ RP



Ordering Code

SR1A-A2 / L ☐ ☐ ☐ - ☐

Pressure relief valve, poppet type, direct acting

Valve cavity
3/4-16 UNF (C-8-2)

Model
Lightline

Pressure range

up to 63 bar (914 PSI)	**6**
up to 100 bar (1450 PSI)	**10**
up to 160 bar (2320 PSI)	**16**
up to 250 bar (3630 PSI)	**25**
up to 350 bar (5080 PSI)	**35**

Adjustment option

S	allen key (hex. 6), without protective cap
T	allen key (hex. 6), with protective cap
L	allen key (hex. 6), with protective cap, sealable (lockwire holes)
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)