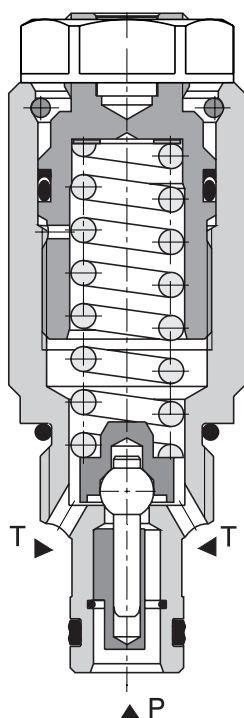


Pressure Relief Valve, Poppet Type, Direct Acting

SR1A-A2

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



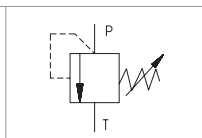
Technical Features

- › 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. Enhanced surface protection for mobile sector available for the steel parts (ISO 9227, 520 h salt spray)

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

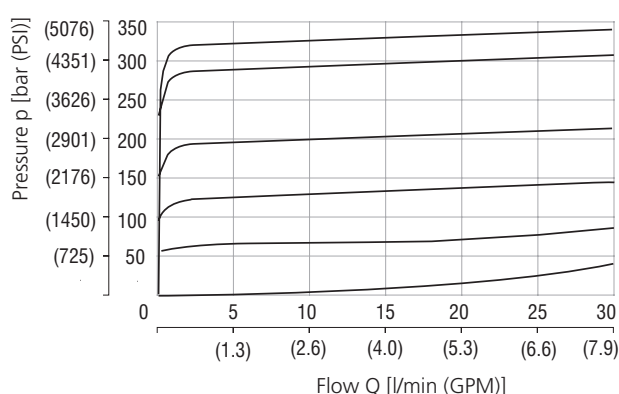


Technical Data

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 (5100)
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		HA 0060 Products and operating conditions
Valve bodies	In-line mounted	HA 0018 SB-A2*
	Sandwich mounted	HA 0028 SB-*A2*
Cavity details / Form tools		HA 0019 SMT-A2*
Spare parts		HA 8010

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

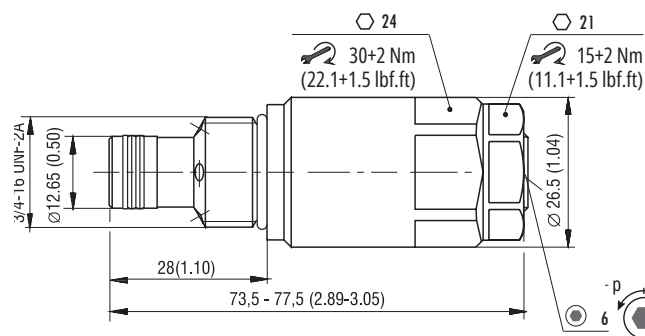
Relief pressure related to flow rate



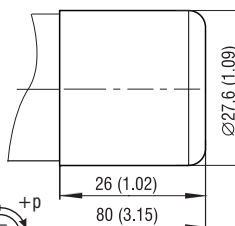
	Pressure range
6	35
5	25
4	16
3	10
2	6
1	Min. pressure setting

Dimensions in millimeters (inches)

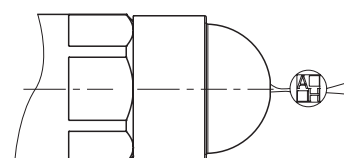
Model S



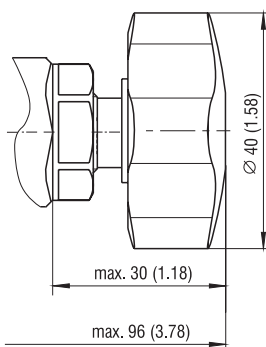
Model T



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)
up to 100 bar (1450 PSI)
up to 160 bar (2320 PSI)
up to 250 bar (3630 PSI)
up to 350 bar (5080 PSI)

6
10
16
25
35

Surface treatment

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

Seals

NBR
FPM (Viton)

No designation
V

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