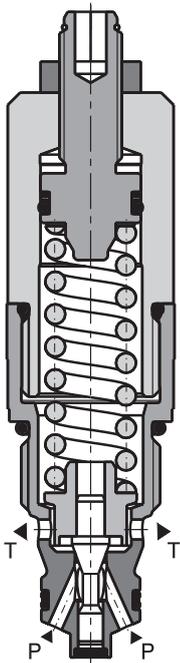


Pressure Relief Valve, Poppet Type, Direct Acting

SR1A-B2

7/8-14 UNF • Q_{max} 60 l/min (16 GPM) • p_{max} 420 bar (6100 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 420 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 1000 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.



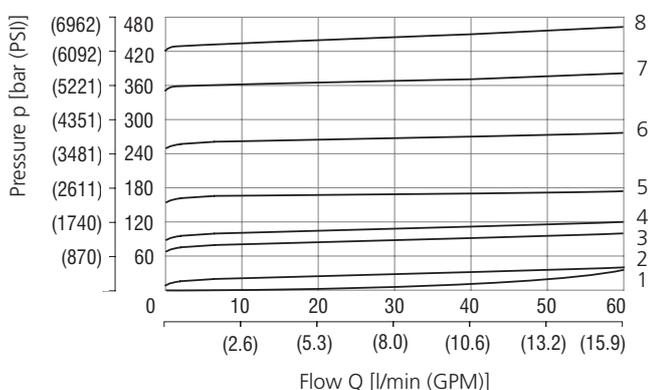
Technical Data

Valve size / Cartridge cavity		7/8-14 UNF-2A / B2 (C-10-2)
Max. flow	l/min (GPM)	60 (15.9)
Max. operating pressure	bar (PSI)	420 (6100)
Max. pressure (port T)	bar (PSI)	250 (3630)
Fluid temperature range (NBR)	°C (°F)	-30 ... +100 (-22 ... 212)
Fluid temperature range (FPM)	°C (°F)	-20 ... +120 (-4 ... 248)
Weight	kg (lbs)	0.25 (0.55)

		Datasheet	Type
General information		HA 0060	Products operating conditions
Valve bodies	In-line mounted	HA 0018	SB-B2*
	Sandwich mounted	HA 0028	SB-*B2*
Cavity details / Form tools		HA 0019	SMT-B2*
Spare parts		HA 8010	

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

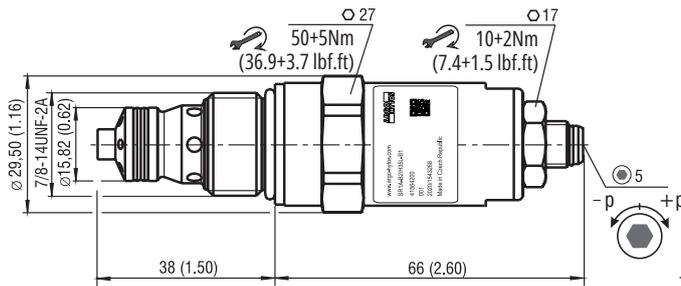
Relief pressure related to flow rate



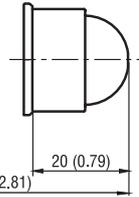
	Pressure range
8	42
7	35
6	25
5	16
4	10
3	6
2	2
1	Min. pressure setting

Dimensions in millimeters (inches)

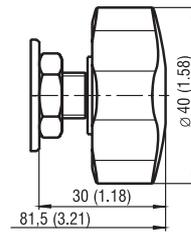
Model S



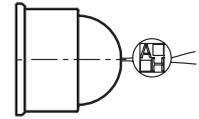
Model T



Model RP



Model L



Ordering Code

SR1A - B2 / H - **B1**

Pressure relief valve, poppet type, direct acting

Valve cavity
7/8-14 UNF (C-10-2)

Model
High performance

Pressure range

adjustable pressure 25 bar (360 PSI)	2
adjustable pressure 63 bar (910 PSI)	6
adjustable pressure 100 bar (1450 PSI)	10
adjustable pressure 160 bar (2320 PSI)	16
adjustable pressure 250 bar (3630 PSI)	25
adjustable pressure 350 bar (5080 PSI)	35
adjustable pressure 420 bar (6090 PSI)	42

Surface treatment
zinc-coated (ZnNi), ISO 9227 (1000 h)

No designation
V

Seals
NBR
FPM (Viton)

S
T
RP
L

Adjustment option
allen key (hex. 5), without protective cap
allen key (hex. 5), with protective cap
hand screw, plastic
allen key (hex. 5), with protective cap, sealable (lockwire holes)