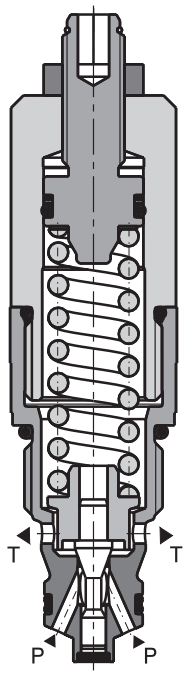
SR1A-B2

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

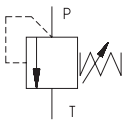


Technical Features

- 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 520 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	

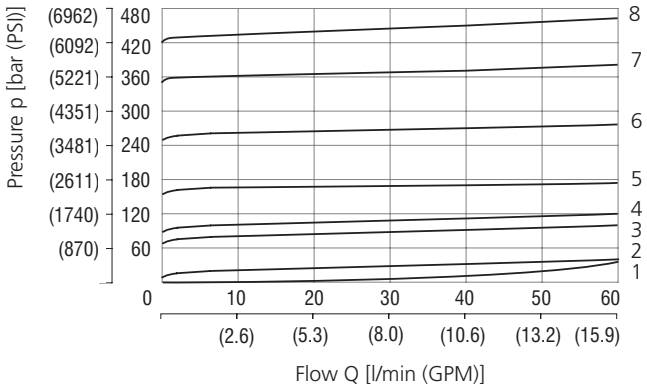
Technical Data

Valve size / Cartridge cavity		7/8-14 UNF-2A / B2 (C-10-2)
Max. flow	l/min (GPM)	60 (15.9)
Max. operating pressure	bar (PSI)	420 (6090)
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		GI_0060	Products operating conditions
Valve bodies	In-line mounted	SB_0018	SB-B2*
	Sandwich mounted	SB-04(06)_0028	SB-*B2*
Cavity details / Form tools		SMT_0019	SMT-B2*
Spare parts		SP_8010	

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

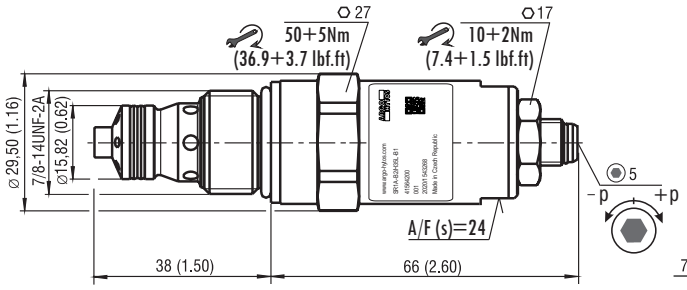
Relief pressure related to flow rate



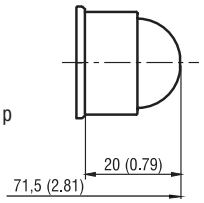
	Pressure range
8	42
7	35
6	25
5	16
4	10
3	6
2	2
1	Min. pressure setting

Dimensions in millimeters (inches)

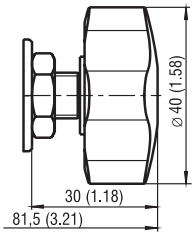
Model S



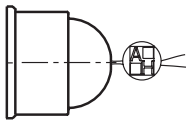
Model T



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**

Adjustment option

S	allen key (hex. 5), without protective cap
T	allen key (hex. 5), with protective cap
RP	hand screw, plastic
L	allen key (hex. 5), with protective cap, sealable (lockwire holes)

Seals

No designation	NBR
V	FPM (Viton)

Surface treatment
zinc-coated (ZnNi), ISO 9227 (520 h)