

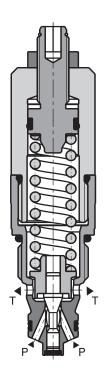
SR1A-B2

Pressure Relief Valve, Poppet-Type, Direct-Acting



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

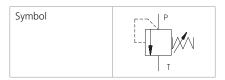




- > Excellent stability throughout flow range with rapid response to dynamic pressure changes
- > Low hysteresis, accurate pressure control and low pressure drop through CFD optimized flow paths
- > Wide pressure range up to 420 bar
- Hardened precision parts
- > Sharp-edged steel seats for dirt-tolerant 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 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.



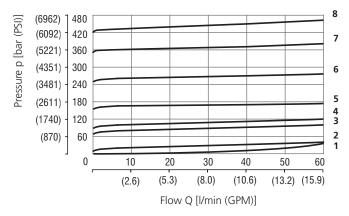
Technical Data

Valve size / Cartridge cavity		7/8-14 UNF-2A / B2
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)
Mass	kg (lbs)	0.25 (0.55)

		Datasheet	Туре
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 $v = 32 \text{ mm}^2/\text{s}$ (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	

Ordering Code

