

# SR1A-A2

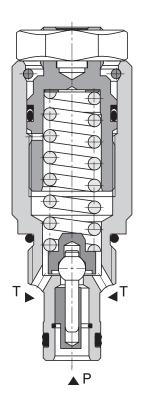
# Pressure Relief Valve, Poppet-Type, Direct-Acting



- 3/4-16 UNF
- Q<sub>max</sub> 30 I/min (8 GPM)
- p<sub>max</sub> 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.



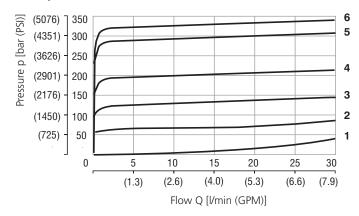
#### **Technical Data**

Valve size / Cartridge cavity		3/4-16 UNF-2A / A2
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)
Mass	kg (lbs)	0.13 (0.29)

		Datasheet	Туре
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 $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

#### Relief pressure related to flow rate



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



#### Model S Model T Model L 21 ● s=24 30+2 Nm (22.1+1.5 ft-lbf) 15+2 Nm (11.1+1.5 ft-lbf) 3/4-16 UNF-2A ø12.65 (0.50) ø 26.5 (1.04) ø 26.5 (1.04) 24,4(0.96) 28(1.10) 6 73.5 - 77.5 (2.89-3.05) 90,4(3.56)

## **Ordering Code**

