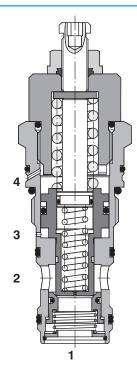
# SOBD5A-S4/I

1-5/16-12 UNF • Q<sub>max</sub> 180 l/min (48 GPM) • p<sub>max</sub> 350 bar (5100 PSI)

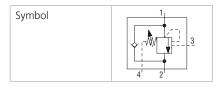


### **Technical Features**

- > The valve prevents runaway ahead of the pump in the event of a negative load
- > Load-holding with leak-free closing poppet when directional valve is in neutral position
- > Pressure relief function protecting the actuator against overload and pressure peaks
- > Integrated check valve acting as an anti-cavitation valve
- > When installed into an actuator the valve can be used as a hose burst valve
- > Back pressure neither affects the relief setting nor the required pilot pressure
- > In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

### **Functional Description**

Poppet type, screw-in motion control valve designed to control the runaway of a negative load. The built-in check valve allows reverse flow into the actuator, which is protected by the internal pressure relief function. Back pressure at port 2 does neither affect the pressure relief setting nor the required pilot pressure. The spring chamber is drained to port 4.



### **Technical Data**

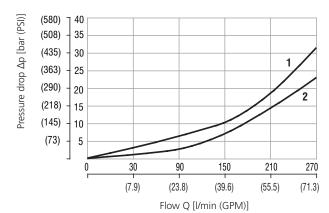
Valve size / Cartridge cavity		1-5/16-12 UNF-2A / S4
Max. flow	l/min (GPM)	180 (47.6)
Max. load induced pressure	bar (PSI)	270 (3920)
Max. relief pressure	bar (PSI)	350 (5080)
Fluid temperature range	°C (°F)	-20 +90 (-4 +194)
Pilot ratio		8:1
Internal Leckage	mil/min	0.3 nominal (5 drops per min)
Max. degree of fluid contamination	ISO 4406	Class 21/18/13
Mass	kg (Ibs)	0.56 (1.23)

		Datasheet	Туре
General information		GI_0060	Products and operating conditions
Valve bodies	In-line mounted	SB_0018	SB-S4*
Cavity details		SMT_0019	SMT-S4*
Spare parts		SP 8010	

# Characteristics measured at $v = 40 \text{ mm}^2/\text{s} (195 \text{ SUS})$

#### Pressure drop related to flow rate

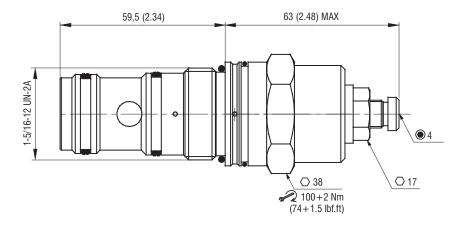
Pilot ratio 8:1



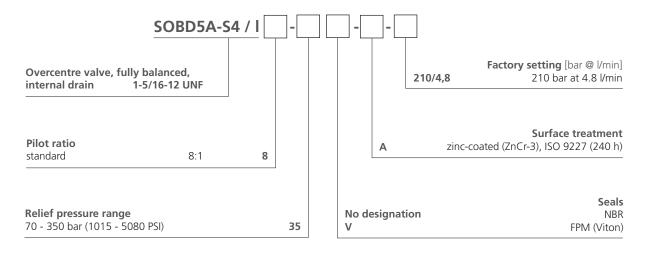
Flow	
1	free flow (2→1)
2	pilot open (1→2)

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## **Ordering Code**



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