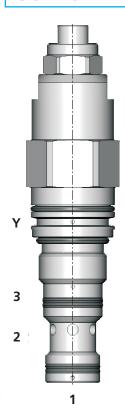
SOBD5A-BPY3

7/8-14 UNF • Q_{max} 40 l/min (11 GPM) • p_{max} 420 bar (6100 PSI)

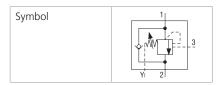


Technical Features

- > The valve prevents runaway ahead of the pump in the event of a negative load
- > Load-holding with leak-free closing poppet when the directional control valve is in neutral position
- > Pressure relief function protecting the actuator against overloading and pressure peaks
- > Integrated check valve acting as an anti-cavitation valve
- > When installed close to actuator the valve can be used as a hose burst valve
- > Back pressure has got negligible effect on relief setting nor the required pilot pressure
- > Setting can be performed during machine operation = leak free closing of adjustable element
- > Wide range of relief pressure setting up to 420 bar (6100 PSI)
- > Spring chamber is connected to external drainage port Y
- > In the standard version, the valve is zinc-coated for 520 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 has got negligible effect to the pressure relief setting and the required pilot pressure.



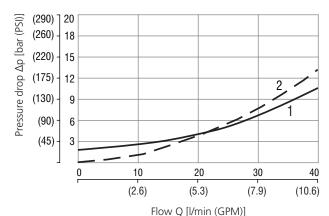
Technical Data

Valve size / Cartridge cavity			7/8-14 UNF-2A / BPY3		
Max. flow		l/min (GPM)	40 (10.6)		
Relief pressure range			21	32	42
Max. load induced pressure		bar (PSI)	175 (2540)	265 (3840)	350 (5080)
Max. relief pressure		bar (PSI)	210 (3050)	320 (4640)	420 (6090)
Fluid temperature range (NBR)		°C (°F)	-30 +100 (-22 +212)		
Fluid temperature range (FPM)		°C (°F)	-20 +120 (-4 +248)		
Pilot ratio			2.5:1		5:1
Leakage		ml/min	0.3 (5 drops per min)		
Weight		kg (Ibs)	0.29 (0.64)		
		Datasheet	Туре		
General information		GI_0060	Products and operating conditions		
Valve bodies	In-line mounted	SB_0018	SB-BPY3*		
	Sandwich mounted	SB-04(06)_0028	SB-06-BPY3*		
Cavity details		SMT_0019	SMT-BPY3*		
Spare parts		SP_8010			

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

Pressure drop related to flow rate

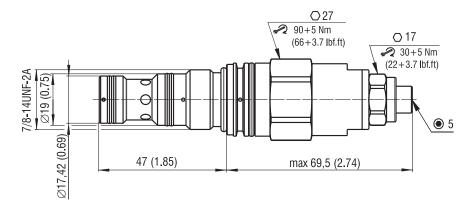
Pilot ratio 2.5:1 and 5:1



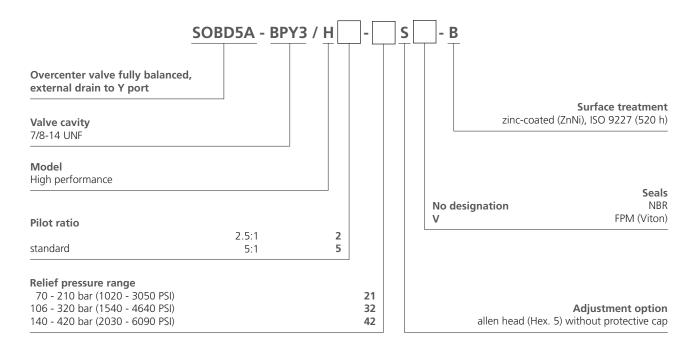
Flow	
1	free flow (2→1)
2	pilot open (1→2)

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Ordering Code



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