SO5A-CP3

1-1/16-12 UN • Q_{max} 80 l/min (21 GPM) • p_{max} 350 bar (5100 PSI)

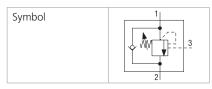


Technical Features

- > The valve prevents runaway ahead of the pump in the event of a negative load
- > Load-holding with leak-free closing poppet when 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
- > Setting can be performed during machine operation = leak free closing of adjustable element
- > Wide range of relief pressure setting up to 350 bar (5100 PSI)
- > 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.



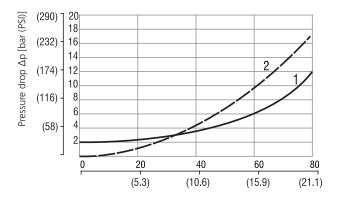
Technical Data

Valve size / Cartrid	dge cavity		1-1/16-12 UN-2A / CP3 (VC12-S3)	
Max. flow		l/min (GPM)	80 (21.1)	
Relief pressure range			22	35
Max. load induced pressure		bar (PSI)	180 (2610)	280 (4060)
Max. relief pressure		bar (PSI)	225 (3260)	350 (5080)
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 8:1
Leakage		ml/min	0.3 (5 drops per minut)	
Weight		kg (lbs)	0.40 (0.88)	
		Datasheet	Type	
General information		GI_0060	Products and operating conditions	
Valve bodies	In-line mounted	SB_0018	SB-CP3*	
	Sandwich mounted	SB-04(06)_0028	SB-CP3*	
Cavity details		SMT_0019	SMT-CP3*	
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 2.5:1 and 5:1

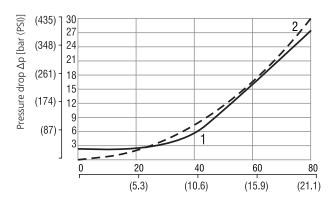


Flow Q [l/min (GPM)]

Flow		
1	free flow $(2\rightarrow 1)$	
2	pilot open (1→2)	

Pressure drop related to flow rate

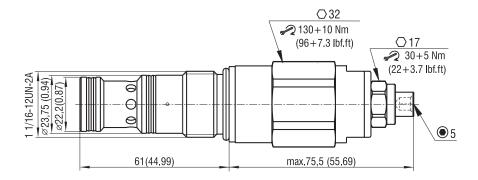
Pilot ratio 8:1



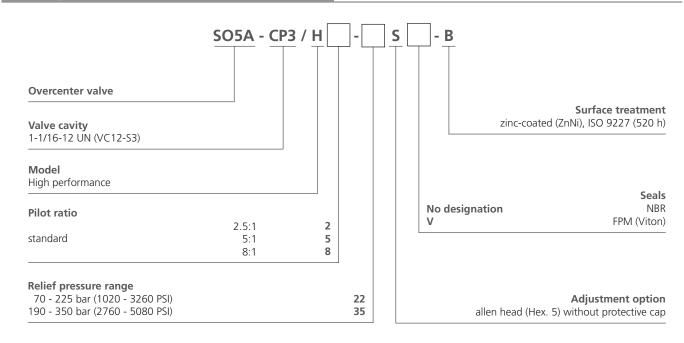
Flow Q [l/min (GPM)]

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





Ordering Code



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