SOBD5A-CPY3

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

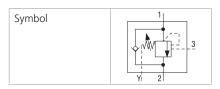


Technical Features

- > 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
- > 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 relief pressure range of setting, in standard up to 350 bar (5100 PSI)
- > Spring chamber is vented 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.



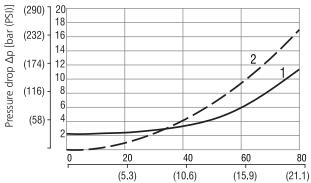
Technical Data

| Valve size / Cartridge cavity | | 1-1/16-12 UN-2A / CPY3 | |
|-------------------------------|-------------|-----------------------------------|------------|
| 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 | |
| Leakage | ml/min | 0.3 (5 drops per min) | |
| Weight | kg (lbs) | 0.40 (0.88) | |
| | | | |
| | Datasheet | Type | |
| General information | GI_0060 | Products and operating conditions | |

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



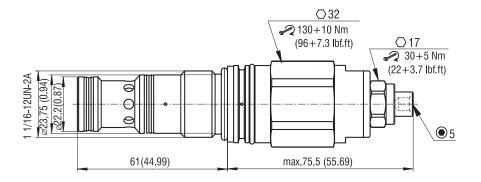
| | 1 | free flow $(2\rightarrow 1)$ |
|------|----|------------------------------|
| | 2 | pilot open (1→2) |
| 60 8 | 30 | |
| ı | 7 | |

Flow

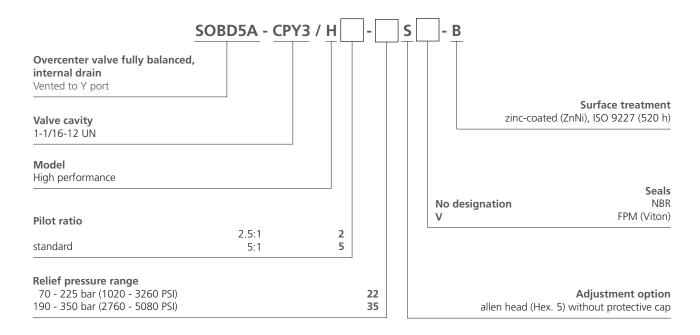
Flow Q [I/min (GPM)]

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Ordering Code



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