

Restrictor Valve with Reverse Flow Check, Modular

VSO2-10/M



Size 10 (D05) • Q_{max} 100 l/min (30 GPM) • p_{max} 320 bar (4600 PSI)

Technical Features

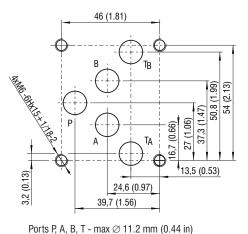
- Restrictor valve with reverse flow check, mounting interface acc. to ISO 4401, DIN 24340 (CETOP 05)
- Meter-in or meter-out flow control
- > Leak-free closing in one or two service ports
- > Linear adjustment and positive seat overlap
- Desired settings may be locked down
- > Optionally adjustable by allen key, with protective cap
- In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227 and the valve body is phosphated

Functional Description

Dual hydraulic flow restrictor valves with an optional by-pass check valve are used to control flow rates in two separate lines (A, B) of a hydraulic circuit. The modular design provides six functional versions. The valve restricts the fluid flow in one direction while providing free reverse flow in the opposite direction. The throttle is adjusted by a set screw, which can be operated by a key, a hand screw, or a hand screw with key lock.

The sandwich design supports stacking with other components of the same size. The separate O-ring plate provides sealing of the valve on a connecting surface. Depending on the valve installation it functions as a meter-in or meter-out flow control device. Changing the valve from meter-in to meter-out mode can be done by turning the valve by 180° around its horizontal. The orientation of the throttle check valve(s) in the valve body corresponds with the symbol on the nameplate.

ISO 4401-05-04-0-05

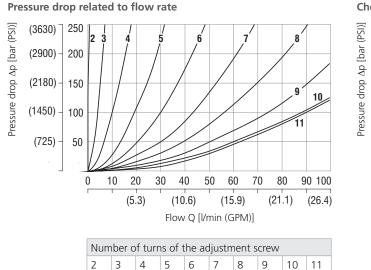


Technical Data

Valve size		10 (D05)
Max. flow	l/min (GPM)	100 (30)
Max. operating pressure	bar (PSI)	320 (4640)
Fluid temperature range (NBR)	°C (°F)	-30 +100 (-22 +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)
Mass	kg (lbs)	2.15 (4.74)

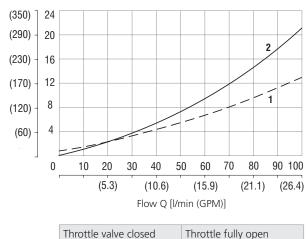
	Datasheet	Туре
General information	GI_0060	Products and operating conditions
Mounting interface / tolerances	SMT_0019	ISO 4401-05-04-0-05 DIN 24340 (CETOP 05)
Spare parts	SP_8010	

Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)



Check valve pressure drop related to flow rate

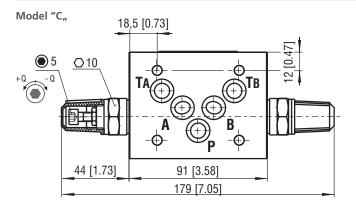
1



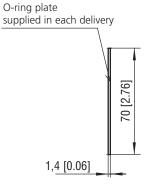
2



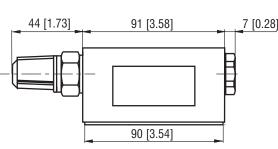
Dimensions in millimeters (inches)



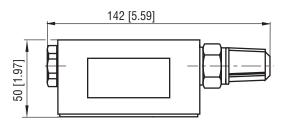
16,6 [0.7] 45;2 [1:92] 48,6 [1.91]



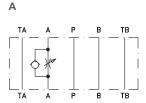
Model "A"

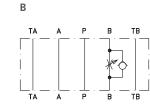


Model "B"



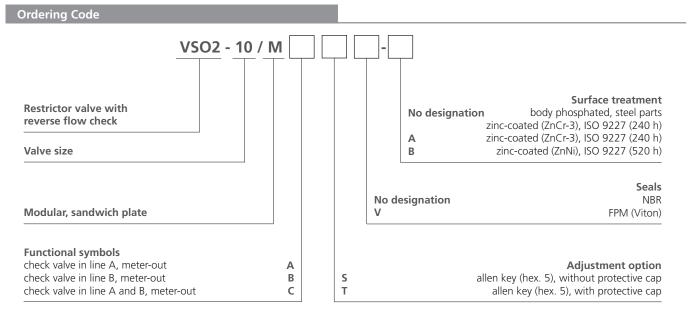
Functional Symbols





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Notice: The orientation of the symbol on the name plate corresponds with the valve function. With the separate O-ring plate the valve body may be mounted 180° rotated, which changes the valve function from meter-out to meter-in.



The valves are assembled in Meter-out version.

To get Meter-in version for variant MC with valves in both channels, just turn it.

Remember: the channels A and B are changed in Meter-in version.

It is important when Meter-in is required for variant MA or MB.