# VSO1-04/M

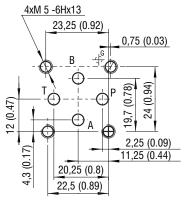
Size 04 (D02) • Q<sub>max</sub> 25 l/min (7 GPM) • p<sub>max</sub> 320 bar (4600 PSI)



# **Technical Features**

- Restrictor valve with reverse flow check, mounting interface acc. to ISO 4401, DIN 24340 (CETOP 02)
- > 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 sandwich plate of valve is phosphated for basic surface corrosion protection and as preparation for painting. Steel parts are zinc-coated for corrosion protection 240 h in NSS acc. to ISO 9227.
- > Enhanced surface protection for mobile applications is available. The sandwich plate and steel parts are zinc-coated with corrosion protection 520 h in NSS

### ISO 4401-02-01-0-05



Ports P, A, B, T - max.  $\varnothing$  4.5 mm (0.18 in)

### **Functional Description**

Dual hydraulic flow restrictor valves with optional by-pass check valves 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 unobstructed reverse flow in the opposite direction. The throttling is adjusted by a set screw, which can be operated by a key. The sandwich design supports stacking with other components of the same size. Depending on the valve installation it functions as a meter-in or meter-out flow control device. The orientation of the check valve(s) in the valve body corresponds with the symbol on the nameplate.

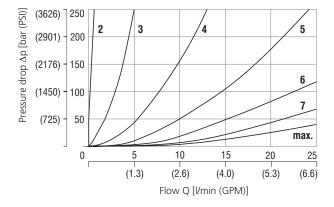
## **Technical Data**

Valve size		04 (D02)		
Max. flow	l/min (GPM)	25 (6.6)		
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)		
Weight	kg (lbs)	0.8 (1.76)		

	Datasheet	Туре
General information	GI_0060	Products and operating conditions
Mounting interface / tolerances	SMT_0019	Size 04
Spare parts	SP_8010	

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

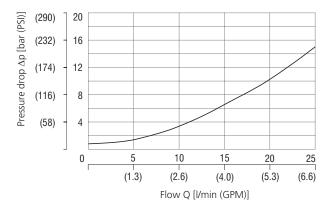
### Pressure drop related to flow rate



Number of turns of the adjustment screw									
2	3	4	5	6	7	max.			

# Check valve pressure drop related to flow rate

Throttle valve closed



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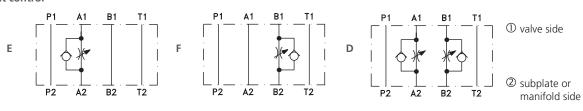


### Model VSO1-04/MCT VSO1-04/MDT 29 (1.14) $\oplus$ (1.38)**⊕** G2 4 6,25 (1,1 5 35 82 (3.23) 44 (1.73) 44 (1.73) Model Model VSO1-04/MAT VSO1-04/MBT VSO1-04/MET VSO1-04/MFT 44 (1.73) 89 (3.5) 133 (5.24) 7 (0.28)

# Functional Symbols

# Meter-in control A P1 A1 B1 T1 B P1 A1 B1 T1 C P1 A1 B1 T1 P2 A2 B2 T2 P2 A2 B2 T2 P2 A2 B2 T2

# Meter-out control



**Notice:** The orientation of the symbol on the name plate corresponds with the valve function.

### **Ordering Code** VSO1 - 04 / M **Surface treatment** Restrictor valve with No designation body phosphated, steel parts reverse flow check zinc-coated (ZnCr-3), ISO 9227 (240 h) zinc-coated (ZnCr-3), ISO 9227 (240 h) Valve size zinc-coated (ZnNi), ISO 9227 (520 h) Modular, sandwich plate Seals NBR **Functional symbols** No designation FPM (Viton) check valve in line A, meter-in\* check valve in line B, meter-in\* В check valve in line A and B, meter-in\* C E check valve in line A, meter-out\* check valve in line B, meter-out\* F Adjustment option check valve in line A and B, meter-out\* D Т allen key (hex. 5), with protective cap

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<sup>\*</sup>see table of functional symbols