# 2VS3-06

Size 06 (D03) • Q<sub>max</sub> 80 l/min (21 GPM) • p<sub>max</sub> 320 bar (4600 PSI)



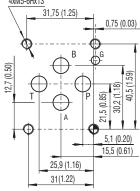
## **Technical Features**

- Restrictor valve with reverse flow check, mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- > 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, or by hand screw
- 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

#### **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.

#### 4xM5-6Hx13



ISO 4401-03-02-0-05

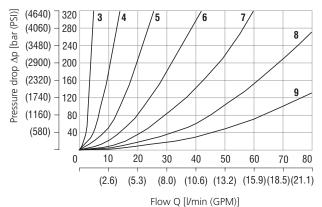
Ports P, A, B, T - max Ø 7.5 mm (0.29 in)

### **Technical Data**

Valve size	06 (D03)		
Max. flow	l/min (GPM)	80 (21.1)	
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)	1.2 (2.65)	
	Datasheet	Туре	
General information	GI_0060	Products and operating conditions	
Mounting interface	SMT_0019	Size 06	
Spare parts	SP_8010		

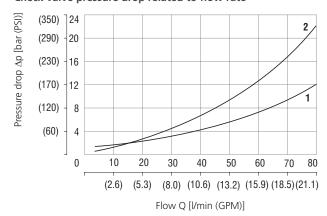
## **Characteristics** measured at $v = 32 \text{ mm}^2\text{/s}$ (156 SUS)

## Pressure drop related to flow rate



Number of turns of the adjustment screw						
3	4	5	6	7	8	9

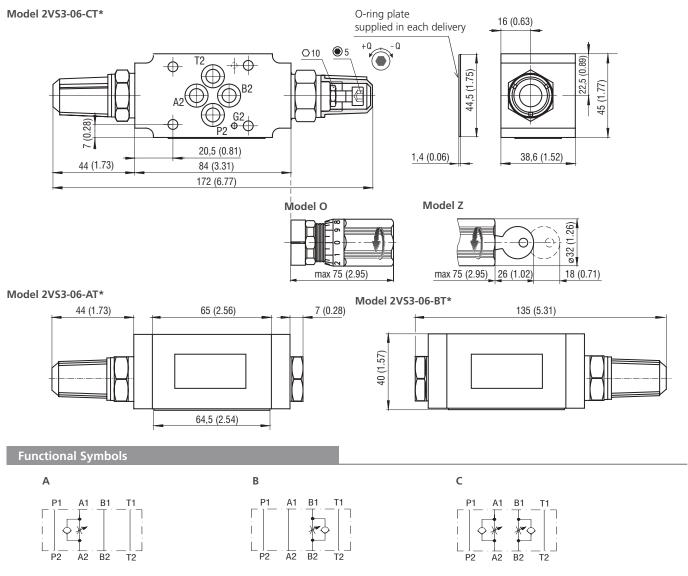
## Check valve pressure drop related to flow rate



Throttle valve closed	Throttle fully open	
1	2	

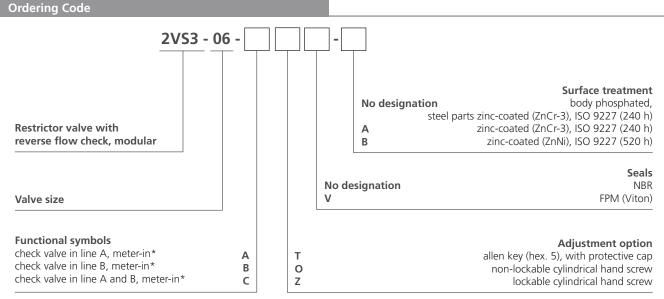
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**Notice:** The orientation of the symbol on the name plate corresponds with the valve function.

With the separate O-ring plate the valve body may be mounted 180° rotated, which changes the valve function from meter-in to meter-out.



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

Changing the valve's function from meter-in to meter-out is accomplished by mounting the valve rotated 180° around its horizontal axis.

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