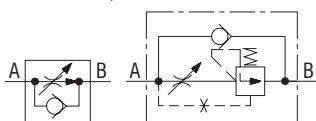


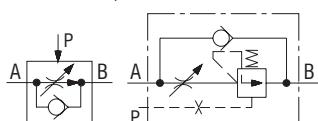
**2-Way Flow Regulator with Reverse Flow Check, Pressure Compensated, Subplate Mounted**
**VSS2-206**

Size 06 (D03) •  $Q_{\max}$  32 l/min (9 GPM) •  $p_{\max}$  320 bar (4600 PSI)

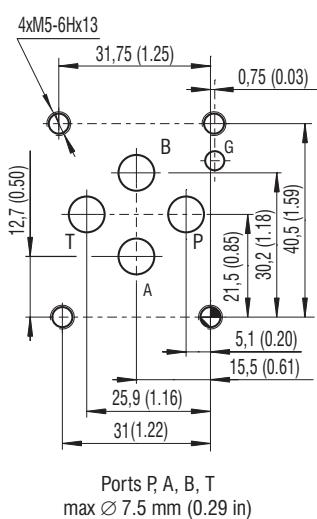

with internal pilot



with external pilot



ISO 4401-03-02-0-05


**Technical Features**

- › Subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- › Set flow rate independent of load pressure and temperature changes
- › Meter-in, meter-out or bleed-off flow control
- › Externally or internally piloted pressure compensator
- › Adjusted flow rate depends on the orifice area and adjusted differential pressure
- › Wide range of flow rate options
- › Quiet and modulated response to load changes
- › Adjustment option with non-lockable or lockable cylindrical
- › Fine low-torque adjustment
- › In the standard version, the steel parts are zinc-coated for 240 h protection acc. to ISO 9227 and the valve body is phosphated

**Functional Description**

Pressure compensated flow control valves **VSS2-206** are designed to provide adjustable, controlled flow rate independently of changes in pressure and temperature.

The flow control valve consists of a housing, a throttling spool, an internal spring, the pressure compensator and a hand screw for adjustment.

Flow control valve **VSS2-206-xxQ/JxO** - internally piloted pressure compensator:

The valve senses load pressure inside the valve. Flow throttling in direction A to B can be adjusted by the hand screw. To ensure flow rate stability in port B, a pressure compensator is located behind the throttling area.

Flow control valve **VSS2-206-xxQ/JxA** - externally piloted pressure compensator:

The mounting surface area of the valve is connected to an external load sensing port P. This arrangement enables external piloting of the pressure compensator. The function is described by the circuit diagram shown.

**Technical Data**

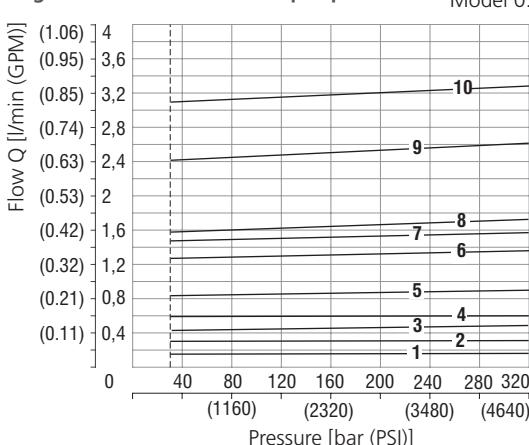
Valve size		06 (D03)					
Max. flow	l/min (GPM)	32 (8.5)					
Max. operating pressure	bar (PSI)	320 (4640)					
Nominal flow rates	l/min (GPM)	0.6 (0.2)	1.6 (0.4)	3.2 (0.8)	6.3 (1.7)	16 (4.2)	32 (8.5)
Min. flow rates	cm <sup>3</sup> /min (inch <sup>3</sup> /min)	10 (0.6)	15 (0.9)	20 (1.2)	25 (1.5)	60 (3.7)	250 (15.3)
Fluid temperature range (NBR)	°C (°F)	-30 .... +100 (-22 ... +212)					
Fluid temperature range (FPM)	°C (°F)	-20 .... +120 (-4 ... +248)					
Maximum degree of fluid contamination	for $Q \leq (1 \text{ l/min})$ for $Q > (1 \text{ l/min})$	Class 20/17/14 according to ISO 4406 Class 21/18/15 according to ISO 4406					
Max. flow rate variation at pressure change (for $Q > 2.5 Q_{\min}$ and $p = 6 \dots 100\% p_{\max}$ )	%	$\pm 5$					
Mass	kg (lbs)	1.1 (2.43)					

		Datasheet	Type
General information	GI_0060	Products and operating conditions	
Mounting interface / tolerances	SMT_0019	ISO 4401-03-02-0-05 DIN 2430 (CETOP 03)	
Spare parts	SP_8010		

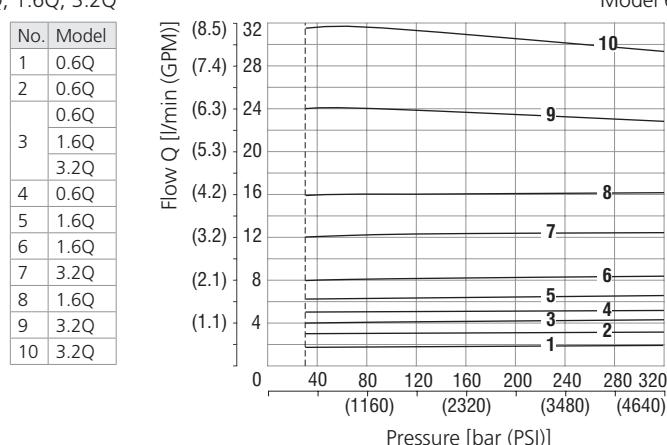
**Characteristics** measured at  $v = 32 \text{ mm}^2/\text{s}$  (156 SUS)

**Regulated flow related to input pressure**

Model 0.6Q, 1.6Q, 3.2Q



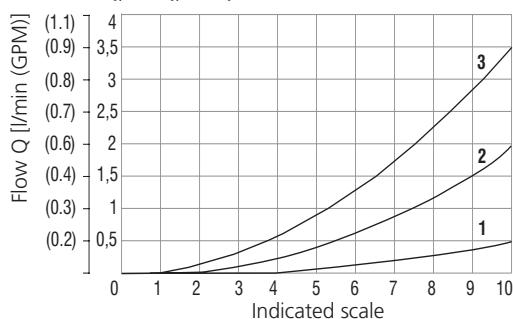
Model 6.3Q, 16Q, 32Q



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

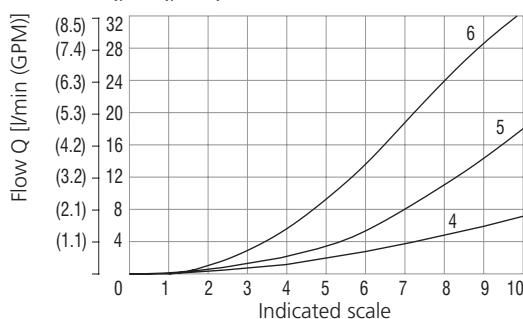
#### Flow rate related to indicated scale

Model 0.6Q, 1.6Q, 3.2Q



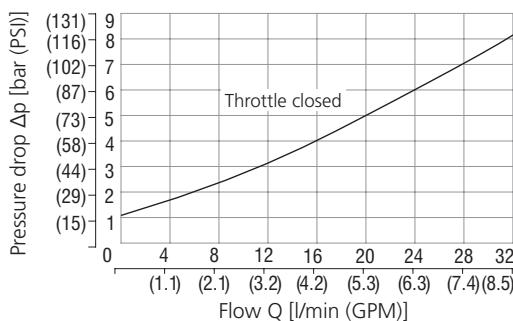
Flow direction A → B

Model 6.3Q, 16Q, 32Q



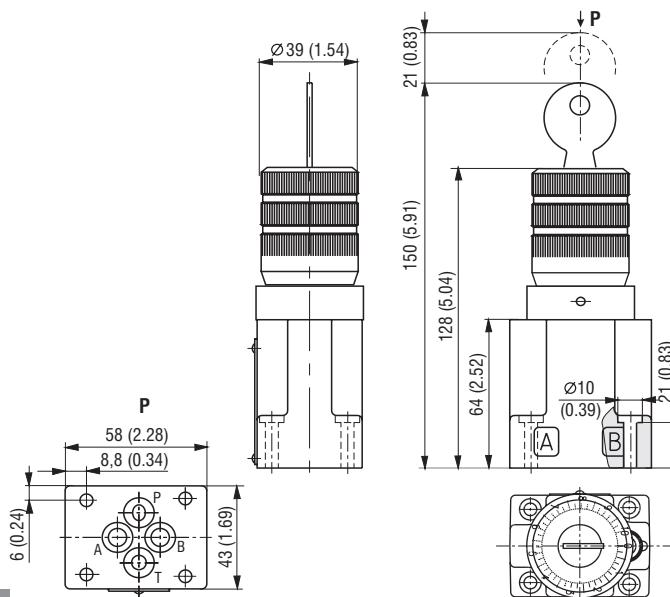
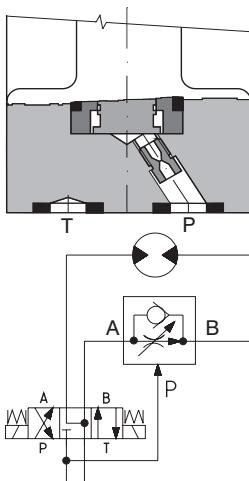
#### Pressure drop related to flow rate

Free flow check valve B → A



#### Dimensions

Dimensions in millimeters (inches)  
Flow control valve VSS2-206-x/JxAx-x  
with externally piloted pressure compensator



#### Ordering Code

VSS2-2 06 -  /    -

2-Way flow regulator  
with reverse flow check,  
pressure compensated, subplate mounted

Valve size

0.6 l/min (0.2 GPM)	0.6Q
1.6 l/min (0.4 GPM)	1.6Q
3.2 l/min (0.9 GPM)	3.2Q
6.3 l/min (1.7 GPM)	6.3Q
16 l/min (4.2 GPM)	16Q
32 l/min (8.6 GPM)	32Q

Model

subplate mounted - without check valve  
subplate mounted - with check valve

O  
J

No designation

Surface treatment  
body phosphated, steel parts  
zinc-coated (ZnCr-3), ISO 9227 (240 h)  
zinc-coated (ZnCr-3), ISO 9227 (240 h)  
zinc-coated (ZnNi), ISO 9227 (520 h)

No designation  
V

Seals  
NBR  
FPM (Viton)

A  
O

Pressure compensator pilot design  
external pilot  
internal pilot

O  
Z

Adjustment option  
non-lockable cylindrical hand screw  
lockable cylindrical hand screw