VSS2-206

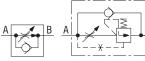
Size 06 (D03) • Q_{max} 32 l/min (9 GPM) • p_{max} 320 bar (4600 PSI)



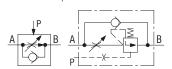
Technical Features

- > 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 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

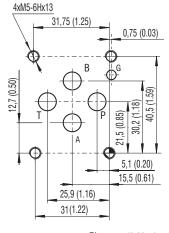
with internal pilot



with external pilot



ISO 4401-03-02-0-05



Ports P, A, B, T max. \varnothing 7.5 mm (0.29 in)

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.

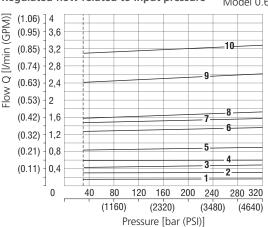
Technical Data

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	cm³/min (inch³/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 for $Q \le (1 \text{ l/min})$ fluid contamination for $Q > (1 \text{ l/min})$		Class 20/17/14 according to ISO 4406 Class 21/18/15 according to ISO 4406		406 406				
Max. flow rate variation at pressure change (for Q > 2.5 Q_{min} and p = 6100% p_{max})	%	± 5						
Weight	kg (lbs)	1.1 (2.43)						

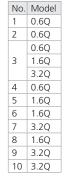
	Datasheet	Type
General information	GI_0060	Products and operating conditions
Mounting interface	SMT_0019	ISO 4401-03-02-0-05 DIN 2430 (CETOP 03)
Spare parts	SP_8010	

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

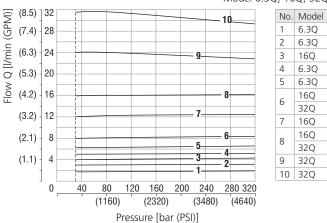
Regulated flow related to input pressure



Model 0.6Q, 1.6Q, 3.2Q



Model 6.3Q, 16Q, 32Q

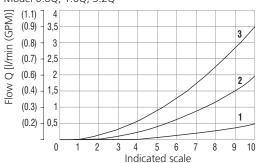


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Flow rate related to indicated scale

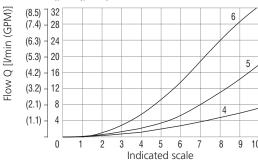
Model 0.6Q, 1.6Q, 3.2Q



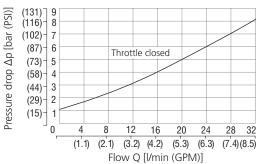
Flow direction $A \rightarrow B$

Flow control $A \rightarrow B$				
No.	Model			
1	VSS2-206-0.6Q-xx			
2	VSS2-206-1.6Q-xx			
3	VSS2-206-3.2Q-xx			
4	VSS2-206-6.3Q-xx			
5	VSS2-206-16Q-xx			
6	VSS2-206-32Q-xx			

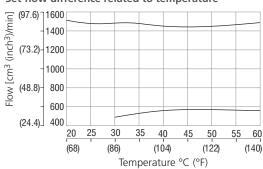
Model 6.3Q, 16Q, 32Q



Pressure drop related to flow rate Free flow check valve $B \rightarrow A$

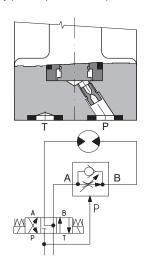


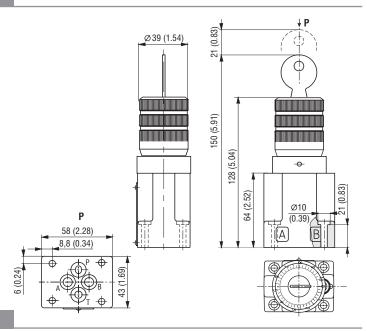
Set flow difference related to temperature



Dimensions in millimeters (inches)

Flow control valve VSS2-206-x/JxAx-x with externally piloted pressure compensator





Ordering Code

