

2-Way Flow Regulator, Pressure Compensated, Modular

VSS3-062/M

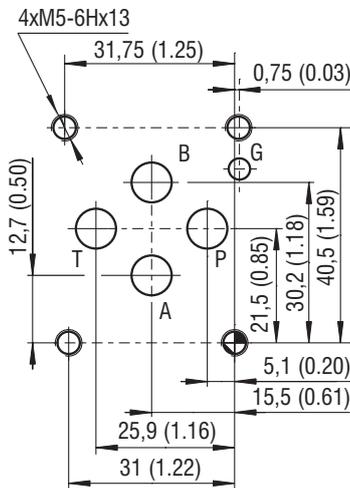
Size 06 (D03) • Q_{max} 40 l/min (11 GPM) • p_{max} 320 bar (4600 PSI)



Technical Features

- › 2-Way flow regulator, pressure compensated, with mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- › Set flow rate independent of load pressure and temperature changes
- › Adjusted flow rate depends on the orifice area and set differential pressure
- › Hardened precision parts
- › High flow capacity
- › Quiet and modulated response to load changes
- › Used in meter-in, meter-out, or bleed-off applications
- › Wide range of flow rate options
- › Adjustable by allen key or 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

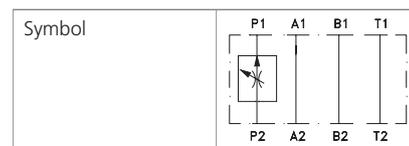
ISO 4401-03-02-0-05



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

Functional Description

This pressure compensated, hydraulic flow regulator in the form of a sandwich plate with fixed orifice and variable spring setting is designed to control flow rates independently of pressure and temperature, especially in systems where only small movements due to load changes are required. The flow rate stabilization is provided by a pressure compensator in the direction from P2 to P1. The valve will maintain the set flow regardless of pressure variations on the regulated or inlet port. The regulated flow increases with clockwise rotation of the adjustment screw, the counter-clockwise rotation decreases the flow rate. Desired settings can be locked down.



Technical Data

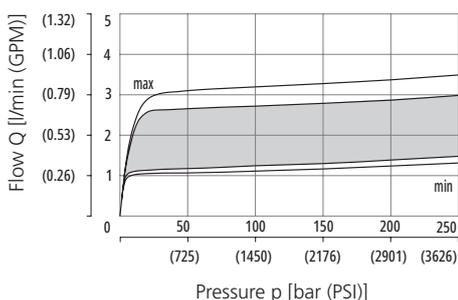
Valve size		06 (D03)						
Max. flow	l/min (GPM)	40 (11)						
Max. operating pressure	bar (PSI)	320 (4600)						
Nominal flow rates	l/min	1.6	2.5	4	6.3	10	16	20
	(GPM)	(0.4)	(0.7)	(1.1)	(1.7)	(2.6)	(4.2)	(5.3)
Fluid temperature range (NBR)	°C (°F)	-30 ... +100 (-22 ... +212)						
Fluid temperature range (FPM)	°C (°F)	-20 ... +120 (-4 ... +248)						
Weight - model MP06	kg (lbs)	1.12 (2.46)						
	Datasheet	Type						
General information	HA 0060	Products and operating conditions						
Mounting interface	HA 0019	Size 06						
Spare parts	HA 8010							

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

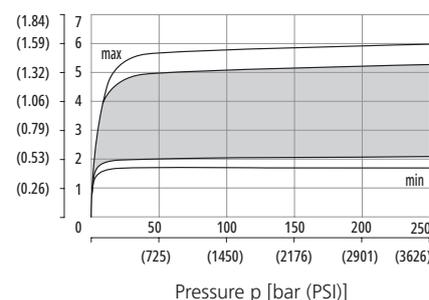
Regulated flow related to input pressure

Flow direction P2 - P1 (regulated flow)

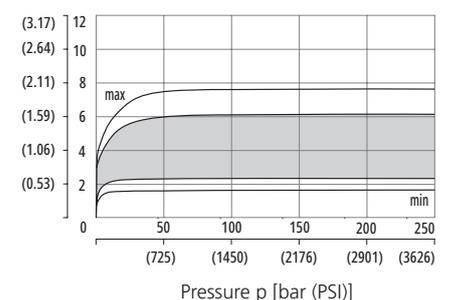
Flow rate 1.6



Flow rate 2.5



Flow rate 4

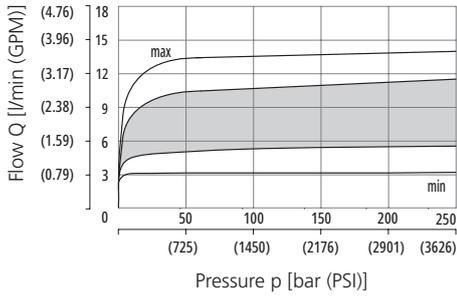


Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

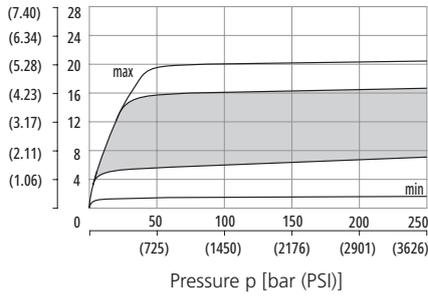
Regulated flow related to input pressure

Flow direction P2 - P1 (regulated flow)

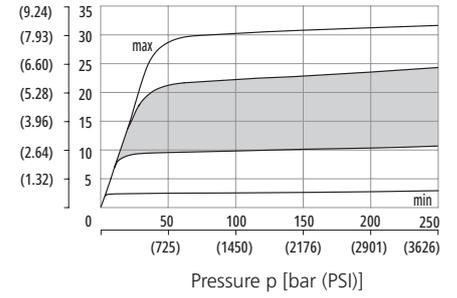
Flow rate 6.3



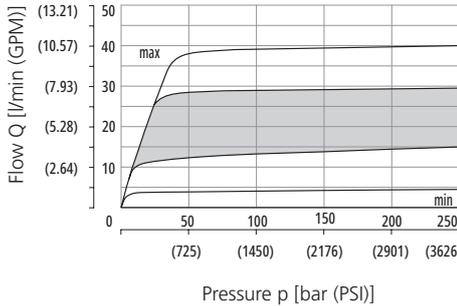
Flow rate 10



Flow rate 16

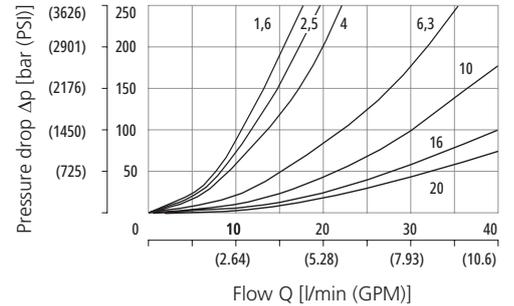


Flow rate 20



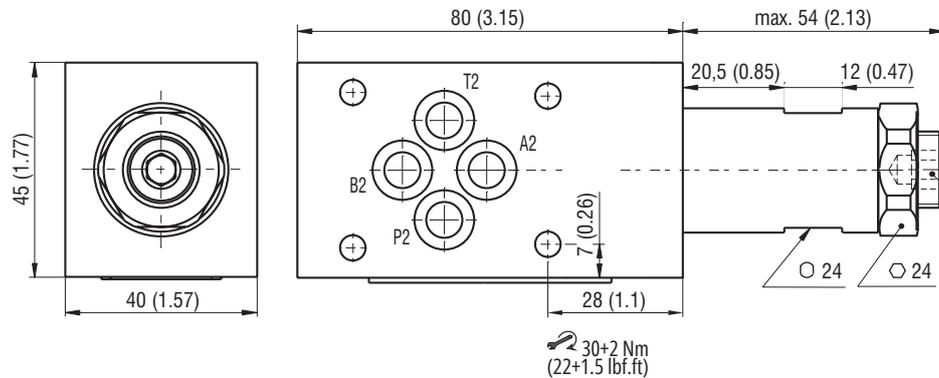
Pressure drop related to flow rate

Flow direction P1 - P2
(throttling without compensation)

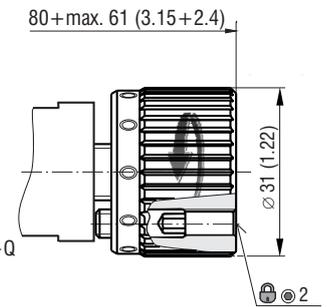


Dimensions in millimeters (inches)

Model S



Model RS



Ordering Code

VSS3-062 / MP06 - [] - [] - [] - []

2-Way flow regulator, pressure compensated M22x1.5

Model
modular, valve function from P2 to P1

Flow rate		
1.4 - 2.7 l/min	(0.4 - 0.7 GPM)	1.6
3 - 6 l/min	(0.8 - 1.6 GPM)	2.5
4 - 10 l/min	(1.1 - 2.6 GPM)	4
5 - 16 l/min	(1.3 - 4.2 GPM)	6.3
8 - 25 l/min	(2.1 - 6.6 GPM)	10
9 - 28 l/min	(2.4 - 7.4 GPM)	16
12 - 40 l/min	(3.2 - 10.6 GPM)	20

*Measured at 63 bar (914 PSI)

Surface treatment
No designation body phosphated, steel parts
A zinc-coated (ZnCr-3), ISO 9227 (240 h)
B zinc-coated (ZnNi), ISO 9227 (520 h)

Seals
No designation V NBR
FPM (Viton)

Adjustment option
S allen key (hex. 6), without protective cap
RS hand screw, metal-short