Size 06 (D03) • Q<sub>max</sub> 22 l/min (6 GPM) • p<sub>max</sub> 320 bar (4600 PSI)

# **Technical Features**



- > Set flow rate independent of load pressure and temperature changes
- Meter-in, meter-out or bleed-off flow control
- Integrated reverse flow check valve
- › 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
- Adjustable by metallic hand screw
- > 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 are designed to provide adjustable controlled flow rates independently of changes in inlet and/or outlet pressure. 2-Way valves are used in meter-in, meter-out or bleed-off applications or in parallel arrangement.

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 VSS1-206-A

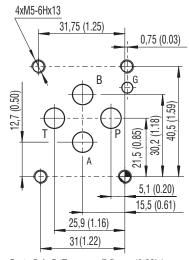
Provides regulated flow from the pump inlet to the consumer. Version  $A^*$  is delivered without reverse free flow check valve. The version is available as a vertical stack close-off valve or as a sandwich plate.

## Flow control valve VSS1-206-B

This valve functions on the same principle as the previous one, however, reverse free flow from port A2 to port A1 is provided by the built-in check valve.

### Flow control valve VSS1-206-C

This valve functions as the valve described above, the only difference being the changed flow direction. The flow is controlled in the direction of A2 to A1 and free flow in the direction A1 to A2.



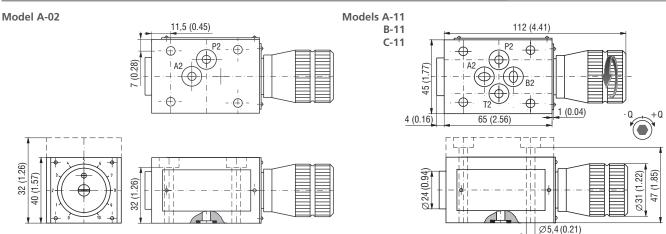
ISO 4401-03-02-0-05

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

## **Technical Data**

Valve size	06 (D03)	
Max. flow	I/min (GPM)	22 (5.8)
Max. operating pressure	bar (PSI)	320 (4640)
Nominal flow rates	I/min (GPM)	6.3 (1.7) 12 (3.2) 22 (5.8)
Min. flow rates	cm³ (inch³) /min	60 (3.7)
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 $Q \le (1 \text{ l/min})$	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 = 6100% $p_{max}$ )	%	± 5
Mass	kg (lbs)	0.8 (1.76)
	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	
Mass General information Mounting interface / tolerances	Datasheet GI_0060 SMT_0019	Type Products and operating condition ISO 4401-03-02-0-05

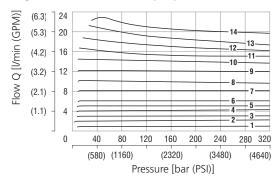
# **Dimensions** in millimeters (inches)



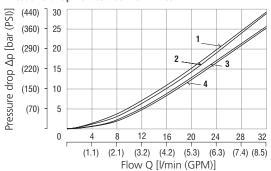
Page 1 www.argo-hytos.com



## Regulated flow related to input pressure



## Pressure drop related to flow rate



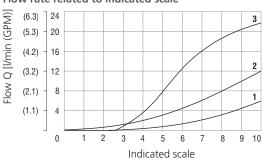
A-02

#### Flow rate No. 6.3 2 6.3 12 22 3 6.3 4 6.3 12 22 5 6.3 22 6 6.3 12 7 12 22 8 12 22 12 22 9 10 22 11 22 12 22

13

14

### Flow rate related to indicated scale



No.	Model	
1	VSS1-206-6.3x-xx	
2	VSS1-206-12x-xx	Flow control $P \rightarrow A$
3	VSS1-206-22x-xx	

No.	Flow rate	
1		Flow orifice closed
2	6.3	
3	12	Flow orifice open
4	22	

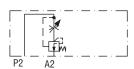
22

22

# **Functional Symbols**

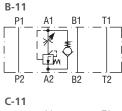
Model

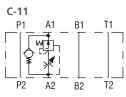
A - without check valve

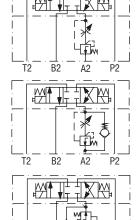


P2 A2 В2 T2

A-11







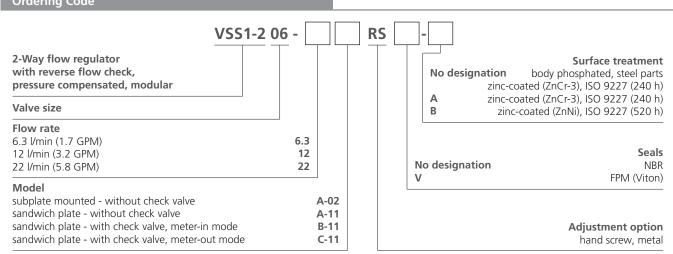
Typical application of the valve in a stacking assembly\*

C - with check valve, meter-out mode

B - with check valve, meter-in mode

\* Directional valve must be ordered separately.

## **Ordering Code**



Page 2 www.argo-hytos.com