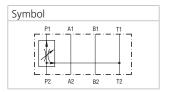
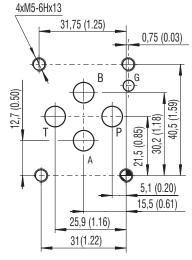
# VSS1-306

Size 06 (D03) • Q<sub>max</sub> 16 l/min (4 GPM) • p<sub>max</sub> 320 bar (4600 PSI)





#### ISO 4401-03-02-0-05



Ports P, A, B, T - max Ø7.5 mm (0.29 in)

#### **Technical Features**

- Subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03) for use in vertical stacking assemblies
- Set flow rate independent of load pressure and temperature changes
- > Meter-in flow control
- > Adjusted flow rate depends on the orifice area and adjusted differential pressure
- > Quiet and modulated response to load changes
- > Adjustable by metallic hand screw
- > 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

#### **Functional Description**

3-Way pressure compensated flow control valves are designed to provide adjustable, controlled flow rates independently of changes in system pressure. The priority flow supplies the consumer port and excessive flow returs to the tank port.

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

### **Technical Data**

| Valve size   |  |  | 06 (D03)            |          |
|--|--|--|---------------------|----------|
| Max. flow  |  | l/min (GPM)  | 16 (4)              |          |
| Max. operating pressure  |  | bar (PSI)  | 320 (4640)          |          |
| Nominal flow rates   |  | l/min (GPM)  | 16 (4.2)            | 20 (5.3) |
| Min. flow rates  |  | cm³ (inch³)/min  | 60+10 (3.7+0.6) *   |          |
| 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 $Q \le (1 \text{ l/min})$<br>for $Q > (1 \text{ l/min})$ | Class 20/17/14 according to ISO 4406<br>Class 21/18/15 according to ISO 4406 |                     |          |
| Max. flow rate variation at pressure change (for Q > 2.5 $Q_{min}$ and p = 6100% $p_{max}$ ) |  | %  | ± 10                |          |
| Weight   |  | kg (lbs)   | 0.8 (1.76)          |          |
| 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |  |  |                     |          |

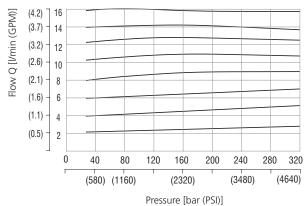
<sup>\*</sup> Pressure compensation is effective in the flow range Q  $\geq$  2 l/min (0.5 GPM)

|                     | Datasheet | Туре  |
|---------------------|-----------|---|
| General information | GI_0060   | Products and operating conditions           |
| Mounting interface  | SMT_0019  | ISO 4401-03-02-0-05<br>DIN 24340 (CETOP 03) |
| Spare parts         | SP_8010   |   |

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

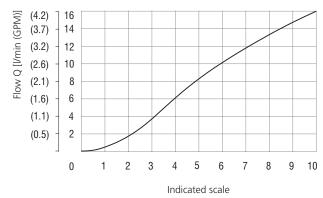
#### Regulated flow related to input pressure

#### Flow direction P2 - P1



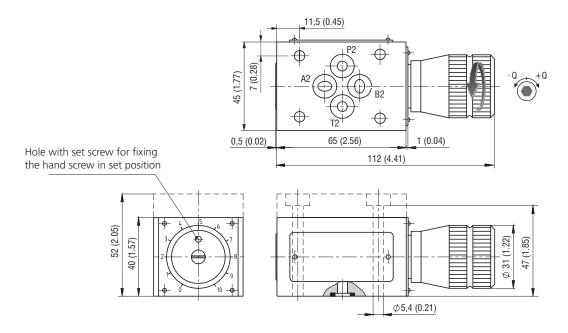
#### Flow rate related to indicated scale

### Flow direction P2 - P1



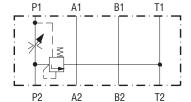
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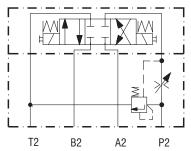
## **Functional symbols**

Functional symbol of the valve

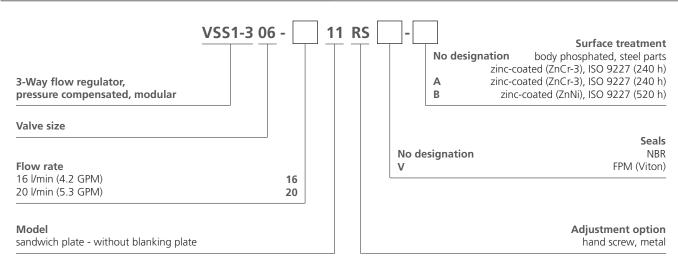


- ① valve side
- ② subplate or manifold side

Typical application of the valve in stacking assembly\*



# **Ordering Code**



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<sup>\*</sup> Directional valve must be ordered separately.