

# FLOW REGULATOR SAS (SIZE 2)



## CHARACTERISTICS

**Volume:**  
7.1 to 31.5 l/min  
fixed setting

**Pipe connection:**  
G 3/4"

**Range of viscosity:**  
- From 10 to 750  
mm<sup>2</sup>/s

**Operating pressure:**  
- 100 bar (1450 psi)

## FLOW REGULATOR SAS (SIZE 2)

The flow regulator SAS is a pressure independent and monitored volume flow regulator. It is available from 7.1 l/min to 31.5 l/min and designed for pipe fitting.

### Mode of operation:

A measuring orifice fixed in the flow regulator determines the volume flow. A control piston ensures constant pressure difference at the measuring orifice, regardless of the pressure difference of inflow P and outflow A. The volume flow is mostly pressure and temperature independent. The function is ensured if the pressure difference from P to A is min. 5.2 bar (75,4 psi) and the available volume flow is more than 10% than the relevant actual volume flow at the operating viscosity of the oil. The integrated signal generator reports if the volume flow is lower than max. 20% of the actual volume flow. If the green LED on the valve glows, volume flow is ok. The red LED reports no or a very low volume flow. A protective diode for the cut-off discharge of inductive loads is integrated  
Detailed information under TA 308 20 602.



### General

|                                 |                                    |
|---------------------------------|------------------------------------|
| Type                            | Pipe fitting                       |
| Lubrication line connection     | G 3/4"                             |
| Ambient temperature             | From 32 to 176°F (from 0 to 80 °C) |
| Protection class as per EN60529 | IP 67                              |

### Hydraulic system

|                    |                                   |
|--------------------|-----------------------------------|
| Operating pressure | 100 bar (1450 psi)                |
| Displacement       | 7.1 to 31.5 l/min                 |
| Operating medium   | Mineral and synthetic oils        |
| Range of viscosity | From 10 to 750 mm <sup>2</sup> /s |

### Order summary

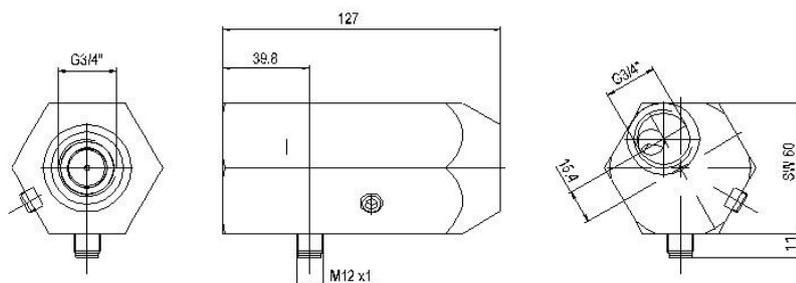
| Discharge rate [l/min] | Single device type | Order number |
|------------------------|--------------------|--------------|
| 7,10                   | SAS 07100          | P30020651    |
| 8,00                   | SAS 08000          | P30020652    |
| 10,00                  | SAS 10000          | P30020654    |
| 12,50                  | SAS 12500          | P30020656    |
| 14,00                  | SAS 14000          | P30020657    |
| 16,00                  | SAS 16000          | P30020658    |
| 18,00                  | SAS 18000          | P30020659    |
| 20,00                  | SAS 20000          | P30020660    |
| 25,00                  | SAS 25000          | P30020662    |
| 31,50                  | SAS 31500          | P30020664    |

## APPLICATIONS

- Small machines
- Single point lubrication with oil

### Sensor system

|                            |                 |
|----------------------------|-----------------|
| <b>Function monitoring</b> |                 |
| Nominal voltage            | 24 V DC         |
| Switching current          | ≤130 mA         |
| Connection                 | M12 x 1; 4-pole |



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