

FLOW REGULATOR SAS (SIZE 1)



CHARACTERISTICS

Volume:

- 0.16 to 6.3 l/min fixed setting

Pipe connection:

- G ¼"

Range of viscosity:

- From 10 to 750 mm²/s

Operating pressure

- 100 bar (1450 psi)

IDEAL FOR

- Monitoring volume flow regulator

APPLICATIONS

- Small machines
- Single point lubrication with oil

FLOW REGULATOR SAS (SIZE 1)

The flow regulator SAS is a pressure independent and monitored volume flow regulator. It is available from 0.16 l/min to 6.3 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 bar (72 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.



General

Type	Pipe fitting
Lubrication line connection	G ¼"
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	0.16 to 6.3 l/min
Operating medium	Mineral and synthetic oils
Range of viscosity	From 10 to 750 mm ² /s

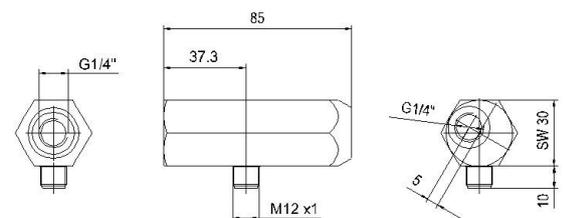
Sensor system

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

Order summary

Discharge rate [l/min]	Single device type	Order number
0,16	SAS 0160	P30020675*
0,25	SAS 0250	P30020677*
0,40	SAS 0400	P30020679*
0,50	SAS 0500	P30020680*
0,63	SAS 0630	P30020681*
1,00	SAS 1000	P30020683
1,25	SAS 1250	P30020684
1,60	SAS 1600	P30020685
2,00	SAS 2000	P30020686
2,50	SAS 2500	P30020687
3,15	SAS 3150	P30020688
4,00	SAS 4000	P30020689
5,00	SAS 5000	P30020690
6,30	SAS 6300	P30020691

* with stainless steel filter



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