



## CHARACTERISTICS

### Nominal voltage:

- 24 V DC

### Lubrication line connection:

- On G $\frac{1}{2}$ , Off G $\frac{3}{8}$

### Ambient temperature:

- From 32 to 176 °F

### Operating pressure:

- 100 bar (1450 psi)

## FLOW REGULATOR SCS

The flow regulator SCS is a pressure independent and monitored volume flow regulator. It is available from 0.16 l/min to 6.3 l/min. The flow regulator is mounted on a flange plate, which makes space-saving installation easy.

### 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 the inlet P and the outlet A. The volume flow is pressure and temperature independent. The function is ensured if the pressure difference from P to A is min. 5 bar and the available volume flow is more than 10% than the relevant actual volume flow at the operating viscosity of the oil. The integrated sensor reports if the volume flow is lower than max. 20% of the nominal volume flow. If the green LED on the valve glows, volume flow is ok. The red LED reports no or a too small volume flow. A protective diode for the cut-off discharge of inductive loads is integrated.



## IDEAL FOR

- Controlling and monitoring a fixed volume flow

- Regulate the flow in progressive dividers

## APPLICATIONS

- Progressive systems

- Oil circulation systems  
hydrostatic bearings

### General

Type	Flange construction
Lubrication line connection	In (P) G $\frac{1}{2}$ , Out (A) G $\frac{3}{8}$
Ambient temperature	From 32 to 176°F (from 0 to 80 °C)
Protection class as per EN60529	IP 67

### Hydraulic system

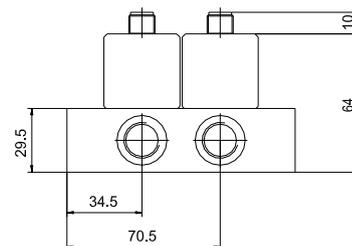
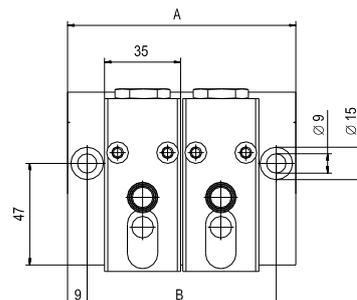
Operating pressure	100 bar (1450 psi)
Minimal req. diff. pressure	5 bar
Flow rate	From 0.16 to 6.3 l/min
Operating medium	Mineral and synthetic oils
Range of viscosity	From 10 to 750 mm <sup>2</sup> /s

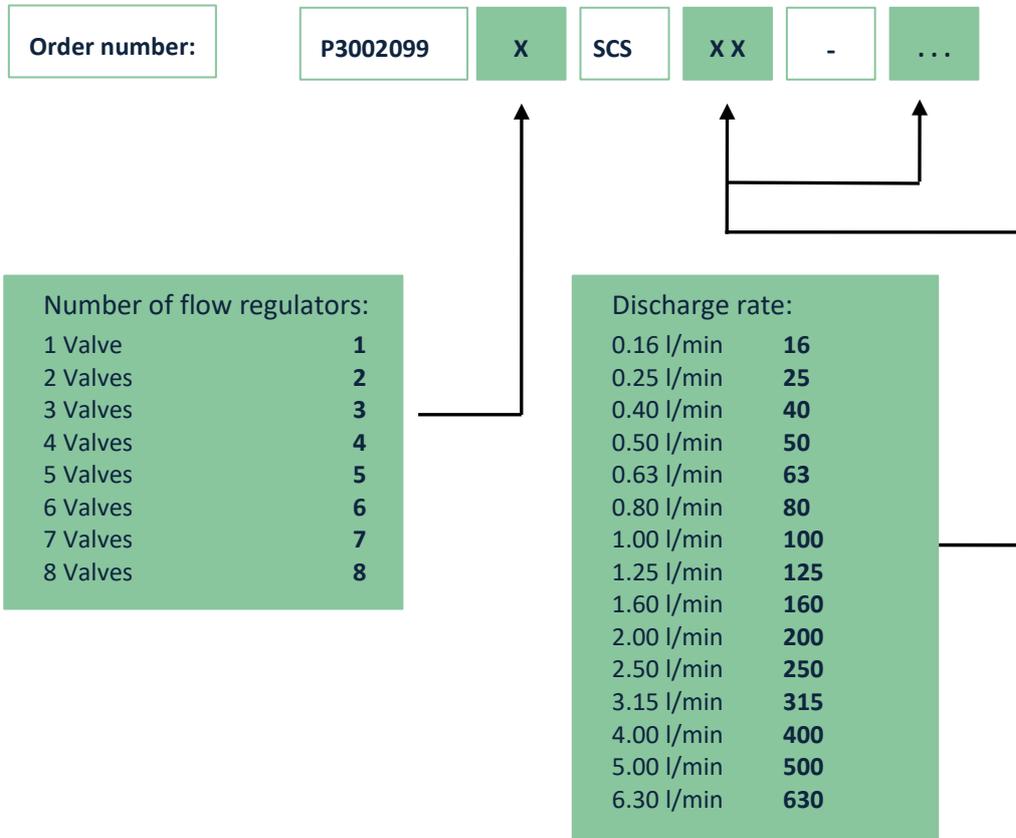
### Sensor system

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

### Dimensions flow regulator terminal

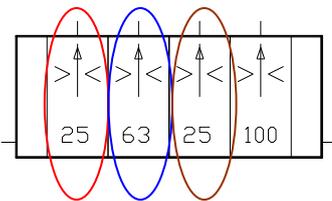
Number of flow regulators	A [mm]	B [mm]
1 times	69	51
2 times	105	87
3 times	141	123
4 times	177	159
5 times	213	195
6 times	249	231
7 times	285	267
8 times	321	303



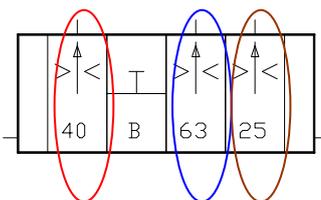


**Sample orders:**

- Flow regulator with 4 valves.  
Flow regulator valve terminal P30020994  
SCS 25-63-25-100



- With 3 valves and 1 blind plate.  
Flow regulator terminal 300 20 994 SCS40-B-63-25



All flow regulators and the associated connection plates are also available individually. For ordering information for single parts, please contact Bielomatik Schmiertechnik GmbH

**Order overview**

Version	Order number
1 Valve	P30020991
2Valves	P30020992
3 Valves	P30020993
4 Valves	P30020994
5 Valves	P30020995
6 Valves	P30020996
7 Valves	P30020997
8 Valves	P30020998