

Technical data sheet

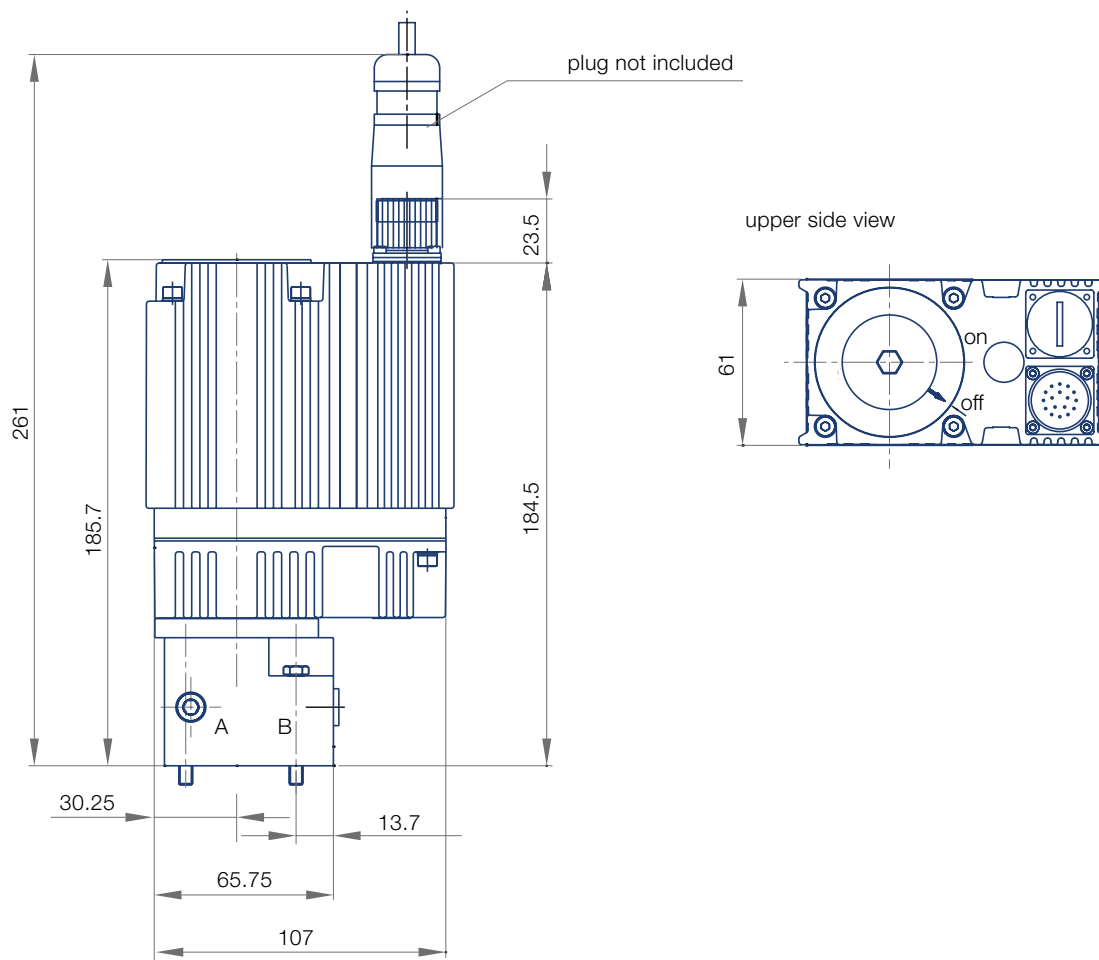
Flow control valve NG 6, stepper-motor controlled

Advantages

- + Reproducibility even with low flow rates up to 5 cm³/min
- + Nearly pressure and viscosity independently flow control
- + High setting accuracy
- + Resolution 0.075%
- + Control range 0 to 100%
- + Electric position feedback
- + Integrated electronics (digital or analog control)
- + Port connection according to ISO 4401
- + Optional with electric break

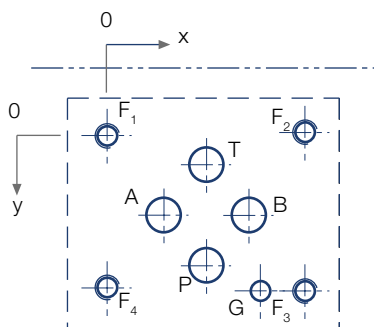


Dimensional drawing



all dimensions in mm

Port connection pattern NG 6 ISO 4401



F: M5, thread depth min. $1.5 \times \varnothing$

G: hole depth min. $1.5 \times \varnothing$

	P	A	T	B	F1	F2	F3	F4	G
\varnothing max [mm]	7.5	7.5	7.5	7.5	-	-	-	-	4
x [mm]	21.5	12.7	21.5	30.2	0	40.5	40.5	0	33
y [mm]	25.9	15.5	5.1	15.5	0	-0.75	31.75	31	31.75

For connection of the flow control valve, the ports A and B are used.
Various single and multiple mounting plates are available.

The figure shows the side of the mounting plate to which the valve is fastened.

Technical data

General

Type	gap throttle valve
Control	stepper motor
Angle of rotation, 1 rotation	300°
Valve mounting	4x M5x50 DIN912
Connections of port	mounting plate
Mounting position	any position
Ambient temperature	+5°C to +50°C
Mass valve	3 kg

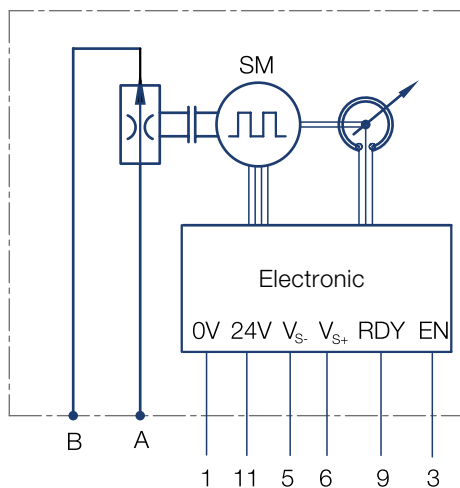
Hydraulic

Operation pressure A, B	max. 150 bar
Hydraulic oil temperature	-10 to +70 °C
Viscosity range	10 to 300 mm ² /s
Rate of flow	max. 20 l/min

Electric

Power supply, DC	24 V, 10%
Current consumption without break	max. 0,6 A
Current consumption with break	max 1,1 A
Setpoint	0 bis 10 V
Setpoint setting digital (option)	up/down, CAN Bus, Profibus
Control speed	approx. 200 ms at 100% adjustment
Connector	Circon M23

Symbol

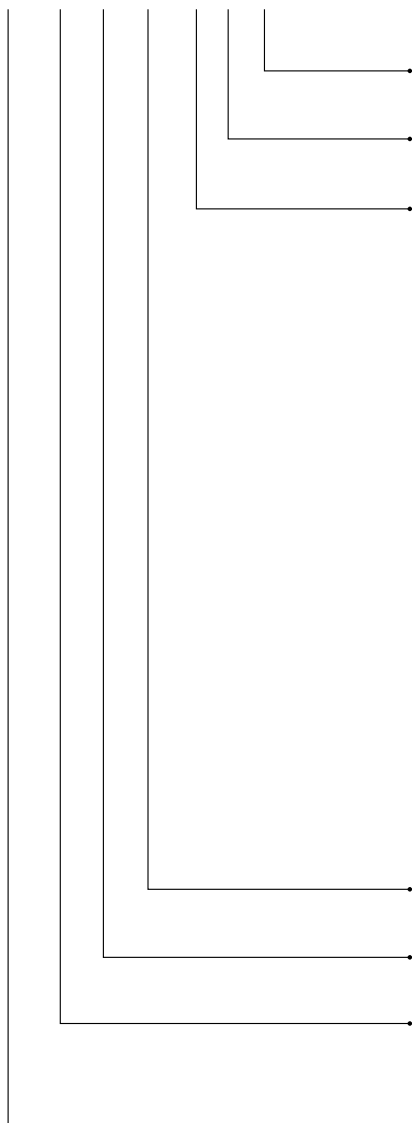


Circular plug-in connector 17-pole

1	0 V	power supply
11	24V DC	power supply 24V/ 1A
5	V _{s-}	reference nominal value
6	V _{s+}	nominal value 0 to 10V
9	RDY	status: ready
3	EN	release

Type code

MES 20 - 6 - 1.5 P 200



Design code

Design

Volume flow

max. volume flow [cm ³ /min]	code
100	0.1
200	0.2
400	0.4
500	0.5
1000	1.0
1500	1.5
3000	3.0
6000	6.0
8000	8.0
9000	9.0
20000	20.0

Nominal size

Symbol

Flow control valve
stepper motor controlled

Material number

Voith Group
St. Poeltener Str. 43
89522 Heidenheim
Germany

www.voith.com/hydraulics

Contact:
Tel. +49 7152 992 3
sales-rut@voith.com



VOITH

Inspiring Technology
for Generations