

3/2-directional valve, electrically operated, Series NL6-SOV

- Compressed air connection G 3/4 G 1

- Pipe connection



Type

Parts

Nominal flow 1 ► 2

Nominal flow 2 ► 3

Working pressure min./max.

Medium

Medium temperature min./max.

Ambient temperature min./max.

Pilot

Sealing principle

Protection class acc. to DIN EN 61140 with plug

Duty cycle

Weight

Poppet valve, Can be assembled into blocks

3/2-directional valve, electrically operated

12500 l/min

3900 l/min

2,5 ... 10 bar

Compressed air Neutral gases

-10 ... 60 °C

-10 ... 60 °C

Internal









Soft sealing

IP65

100 %

See table below

Technical data

Part No.		Compressed air connection input	Compressed air connection output	Exhaust
0821300973		G 3/4	G 3/4	G 1/2
0821300972		G 3/4	G 3/4	G 1/2
0821300971		G 3/4	G 3/4	G 1/2
0821300990		G 3/4	G 3/4	G 1/2
0821300966		G 1	G 1	G 1/2
0821300965		G 1	G 1	G 1/2
0821300964		G 1	G 1	G 1/2
0821300991		G 1	G 1	G 1/2

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
0821300973	-	-	-
0821300972	24 V	-	-
0821300971	-	230 V	230 V
0821300990	-	-	-
0821300966	-	-	-
0821300965	24 V	-	-
0821300964	-	230 V	230 V
0821300991	-	-	-

Part No.	Power consumption	Holding power	Switch-on power	Manual override
	DC	AC 50 Hz	AC 50 Hz	
0821300973	-	-	-	without
0821300972	4,8 W	-	-	-

Part No.	Power consumption	Holding power	Switch-on power	Manual override
	DC	AC 50 Hz	AC 50 Hz	
0821300971	-	8,5 VA	11,8 VA	-
0821300990	-	-	-	with detent
0821300966	-	-	-	without
0821300965	4,8 W	-	-	-
0821300964	-	8,5 VA	11,8 VA	-
0821300991	-	-	-	with detent

Part No.	Electrical connection	basic valve with electrical connector
	Pilot valve	
0821300973	-	pilot valve without coil
0821300972	Plug, ISO 6952, form B	-
0821300971	Plug, ISO 6952, form B	-
0821300990	-	pilot valve without coil
0821300966	-	pilot valve without coil
0821300965	Plug, ISO 6952, form B	-
0821300964	Plug, ISO 6952, form B	-
0821300991	-	pilot valve without coil

Part No.	Reverse polarity protection	Weight
0821300973	-	1,42 kg
0821300972	Protected against polarity reversal	1,49 kg
0821300971	Protected against polarity reversal	1,49 kg
0821300990	-	1,42 kg
0821300966	-	1,42 kg
0821300965	Protected against polarity reversal	1,49 kg
0821300964	Protected against polarity reversal	1,49 kg
0821300991	-	1,42 kg

Nominal flow Q_n with secondary pressure p₂ = 6 bar at Δp = 1 bar

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

The connections on the front and back are not connected to the main air flow. No pressure gauge may be connected here.

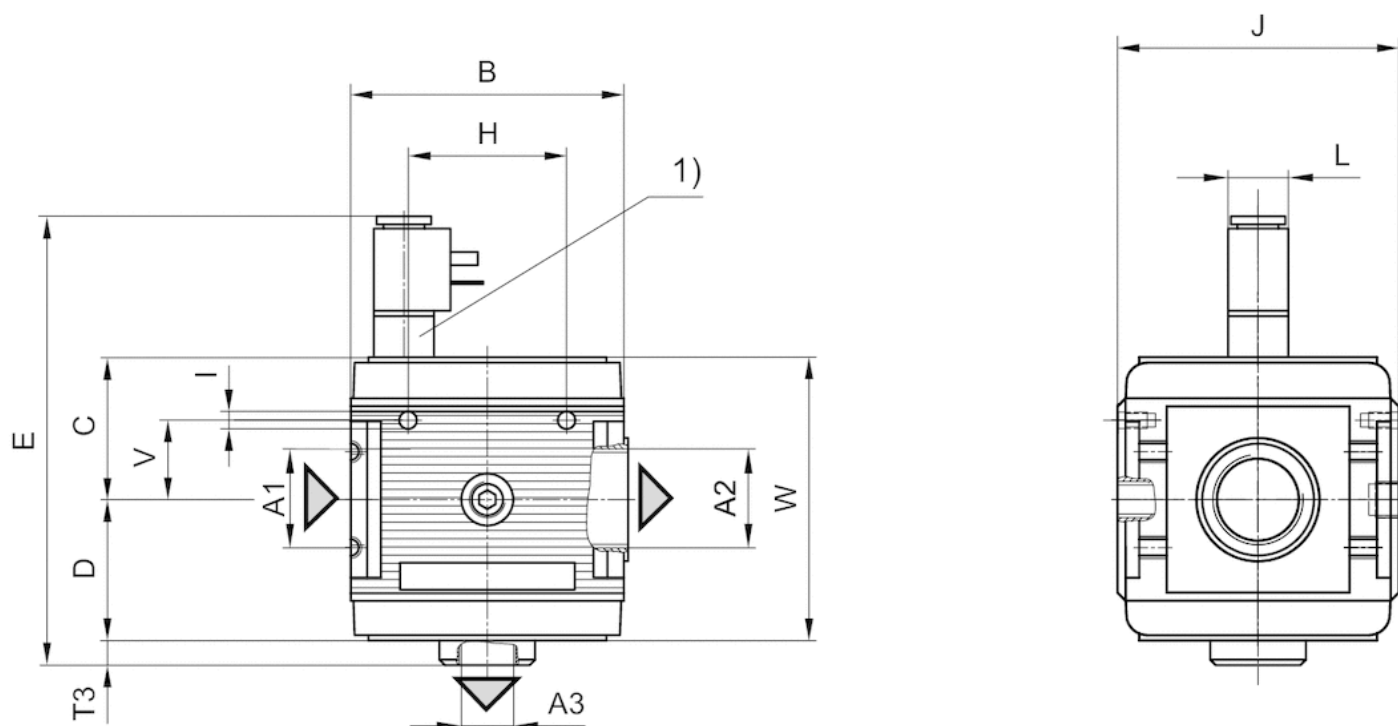
Recommended pre-filtering 8 μm

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene styrene

Dimensions

Dimensions



A1 = input

A2 = output

A3 = ventilation port

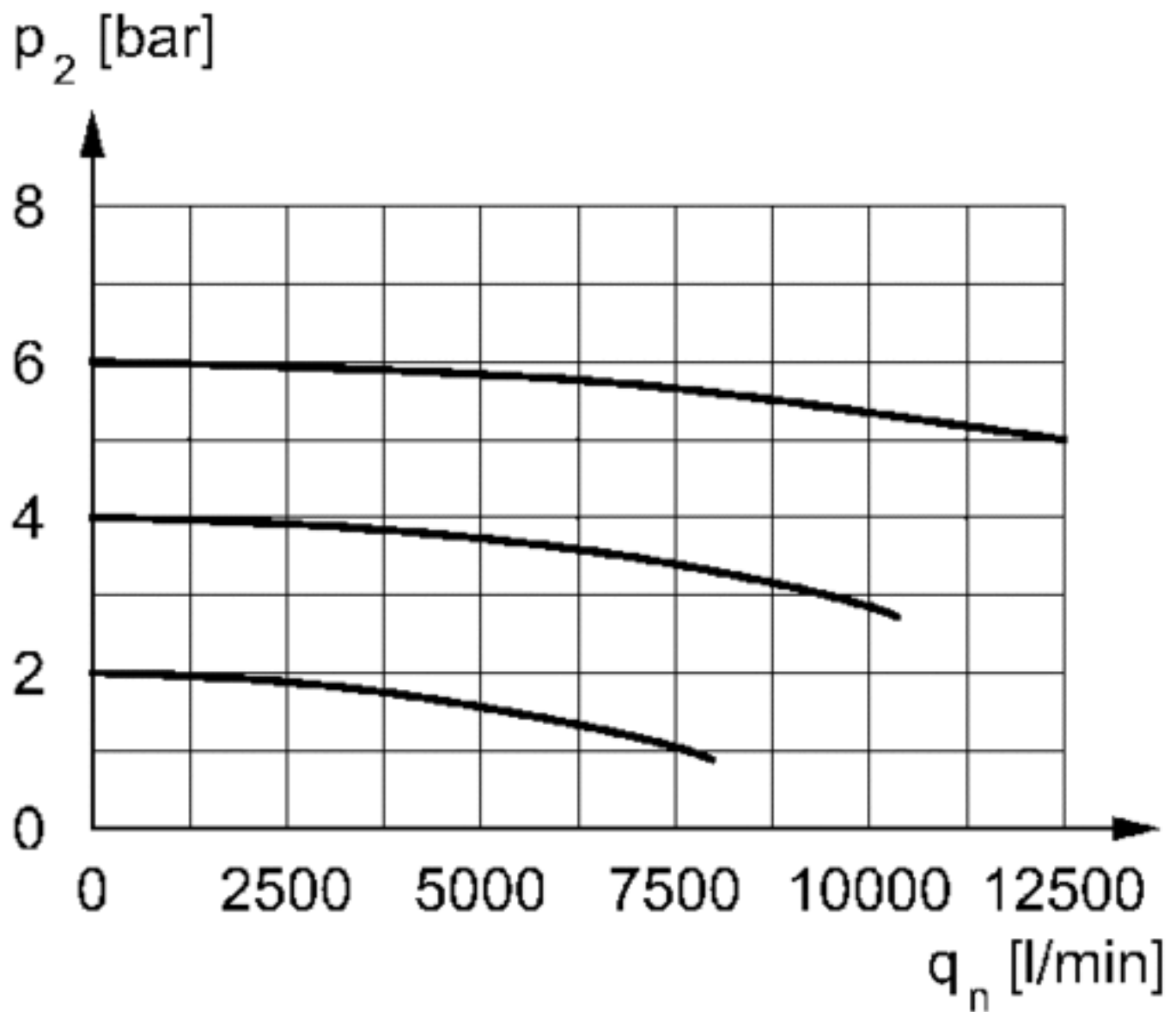
1) electrically operated

Dimensions in mm

A1	A2	A3	B	C	D	E	H	I	J	L	T3	T5	V	W
G 3/4	G 3/4	G 1/2	100	52	51.5	164.5	58	M6	103	22	9.5	7	29	103.5
G 1	G 1	G 1/2	100	52	51.5	164.5	58	M6	103	22	9.5	7	29	103.5

Diagrams

Flow rate characteristic



p_2 = secondary pressure
 q_n = nominal flow

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