






# 3/2-directional valve, electrically operated, Series NL1-SOV

- Compressed air connection G 1/4
- Pipe connection
- Electrical connection: Plug, ISO 6952, form B



Type	Poppet valve, Can be assembled into blocks
Parts	3/2-directional valve, electrically operated
Nominal flow 1 ► 2	2000 l/min
Nominal flow 2 ► 3	800 l/min
Working pressure min./max.	3 ... 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 ... 60 °C
Ambient temperature min./max.	-10 ... 60 °C
Pilot	Internal
Sealing principle	Soft sealing
Max. particle size	5 µm
Protection class acc. to DIN EN 61140 with plug	IP65
Duty cycle	100 %
Weight	See table below

## Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
0821300776		—	G 1/4	G 1/4	G 1/4
0821300777		—	G 1/4	G 1/4	G 1/4
0821300778		—	G 1/4	G 1/4	G 1/4
0821300779			G 1/4	G 1/4	G 1/4

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
0821300776	24 V	-	-
0821300777	-	230 V	230 V
0821300778	-	-	-
0821300779	-	-	-

Part No.	Power consumption	Holding power	Switch-on power	Manual override
	DC	AC 50 Hz	AC 50 Hz	
0821300776	4,8 W	-	-	-
0821300777	-	8,5 VA	11,8 VA	-
0821300778	-	-	-	-
0821300779	-	-	-	with detent

Part No.	Electrical connection	Connector standard	basic valve with electrical connector
	Pilot valve		
0821300776	Plug, ISO 6952, form B	ISO 6952	-

Part No.	Electrical connection	Connector standard	basic valve with electrical connector
	Pilot valve		
0821300777	Plug, ISO 6952, form B	ISO 6952	-
0821300778	Plug, ISO 6952, form B	-	pilot valve without coil
0821300779	Plug, ISO 6952, form B	-	pilot valve without coil

Part No.	Reverse polarity protection	Weight
0821300776	Protected against polarity reversal	0,45 kg
0821300777	Protected against polarity reversal	0,45 kg
0821300778	Protected against polarity reversal	0,42 kg
0821300779	Protected against polarity reversal	0,42 kg

Nominal flow Q<sub>n</sub> with secondary pressure p<sub>2</sub> = 6 bar at Δp = 1 bar

## Technical information

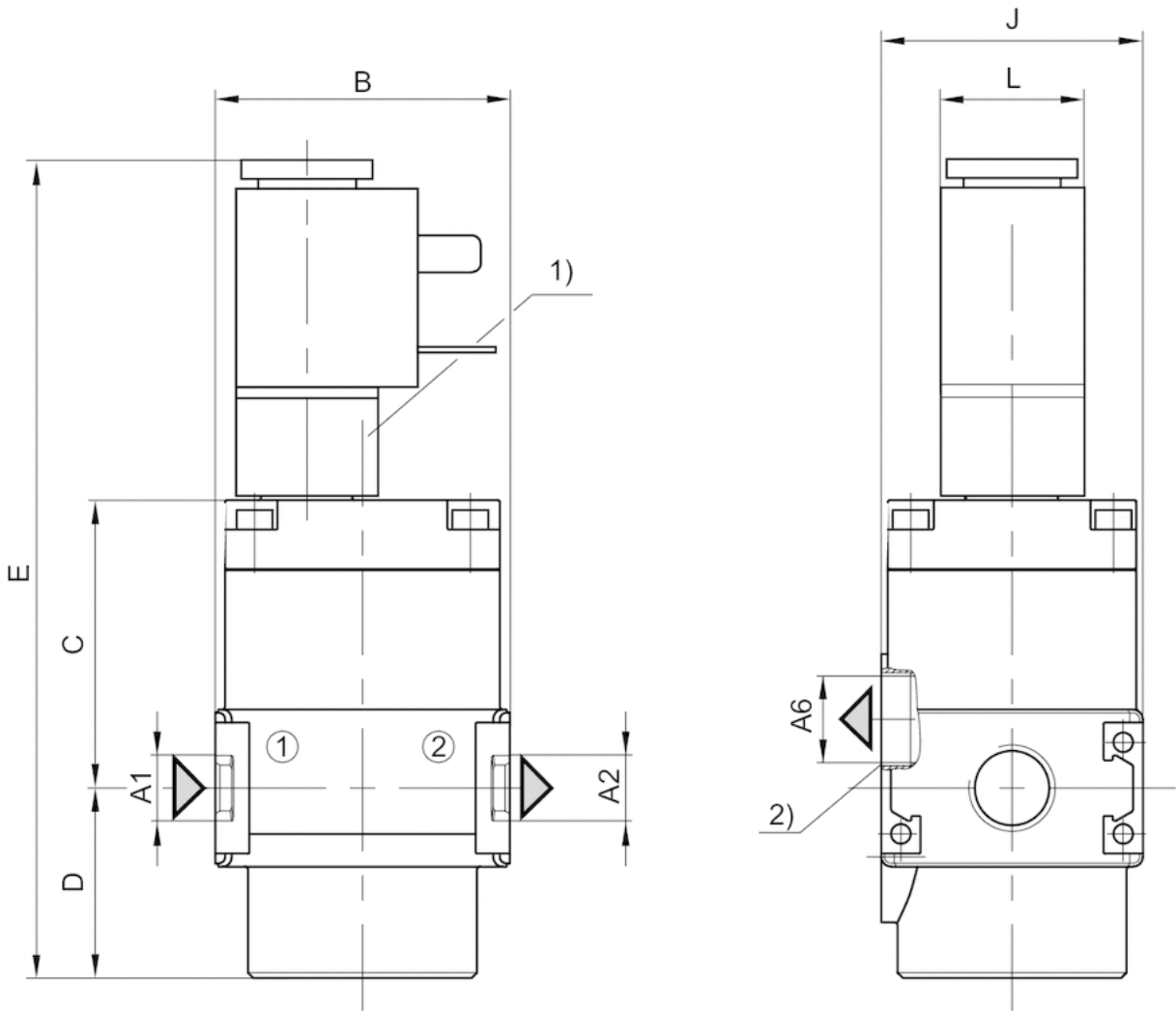
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

## Technical information

Material	
Housing	Die cast zinc
Seals	Acrylonitrile butadiene styrene

Dimensions

Dimensions



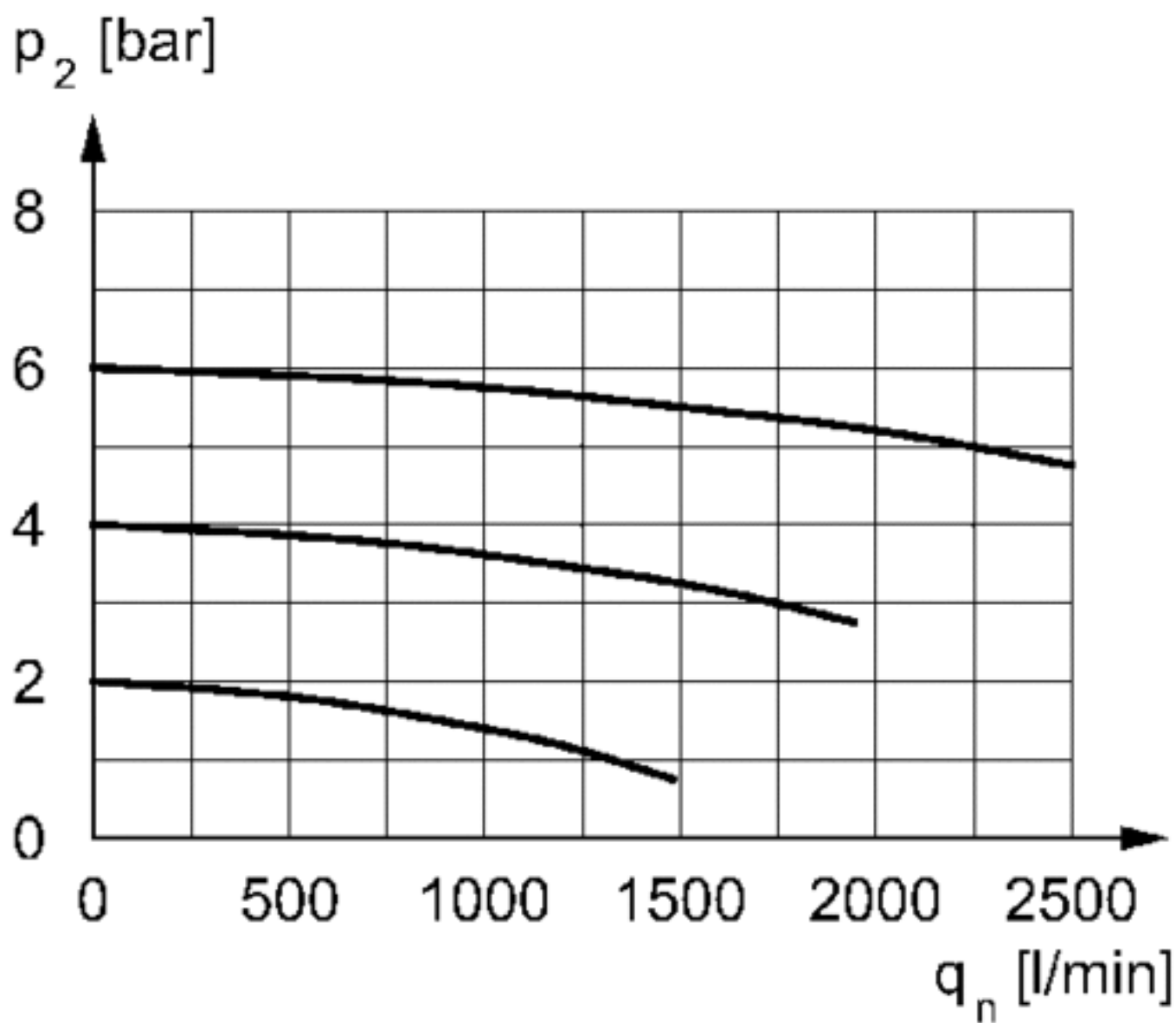
A1 = input  
A2 = output  
A6 = output  
1) electrically operated  
2) Port 3 (Exhaust)

Dimensions in mm

A1	A2	A6	B	C	D	E	J	L
G 1/4	G 1/4	G 1/4	45	44.5	29	124.5	40	22

## Diagrams

## Flow rate characteristic



$p_2$  = secondary pressure  
 $q_n$  = nominal flow

# Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: [Emerson.com/Aventics](https://www.emerson.com/Aventics)

Your local contact: [Emerson.com/contactus](https://www.emerson.com/contactus)



Emerson.com



Facebook.com/EmersonAutomationSolutions



LinkedIn.com/company/Emerson-Automation-Solutions



Twitter.com/EMR\_Automation

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and aging.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners. © 2020 Emerson Electric Co. All rights reserved.  
2020-12



## CONSIDER IT SOLVED™