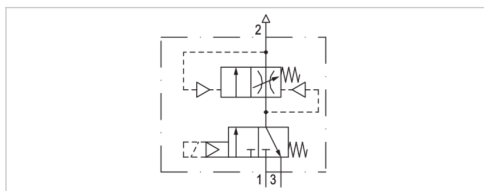


Filling unit, electrically operated, Series NL2-SSU

- Compressed air connection G 1/4

- Pipe connection



Type	Poppet valve, Can be assembled into blocks
Parts	Filling valve, 3/2-directional valve, electrically operated
Nominal flow 1 ▶ 2	900 l/min
Nominal flow 2 ▶ 3	450 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	Operational voltage
				DC
0821300941	G 1/4	G 1/4	G 1/4	24 V
0821300943	G 1/4	G 1/4	G 1/4	-
0821300944	G 1/4	G 1/4	G 1/4	-
0821300946	G 1/4	G 1/4	G 1/4	24 V

Part No.	Power consumption	Manual override	Electrical connection	Connector standard
	DC		Pilot valve	
0821300941	4,8 W	-	Plug, ISO 6952, form B	ISO 6952
0821300943	-	-	-	-
0821300944	-	with detent	-	-
0821300946	4,8 W	-	Plug, ISO 6952, form B	ISO 6952

Part No.	basic valve with electrical connector	Reverse polarity protection	Weight	
0821300941	-	Protected against polarity reversal	0,63 kg	1)
0821300943	pilot valve without coil	Protected against polarity reversal	0,59 kg	1)
0821300944	pilot valve without coil	Protected against polarity reversal	0,81 kg	2)
0821300946	-	Protected against polarity reversal	0,63 kg	3)

Nominal flow Q_n with secondary pressure p₂ = 6 bar at Δp = 0.1 bar, MO = Manual override

1) adjustable filling

2) adjustable filling, With manual override

3) Filling with fixed diaphragm

Technical information

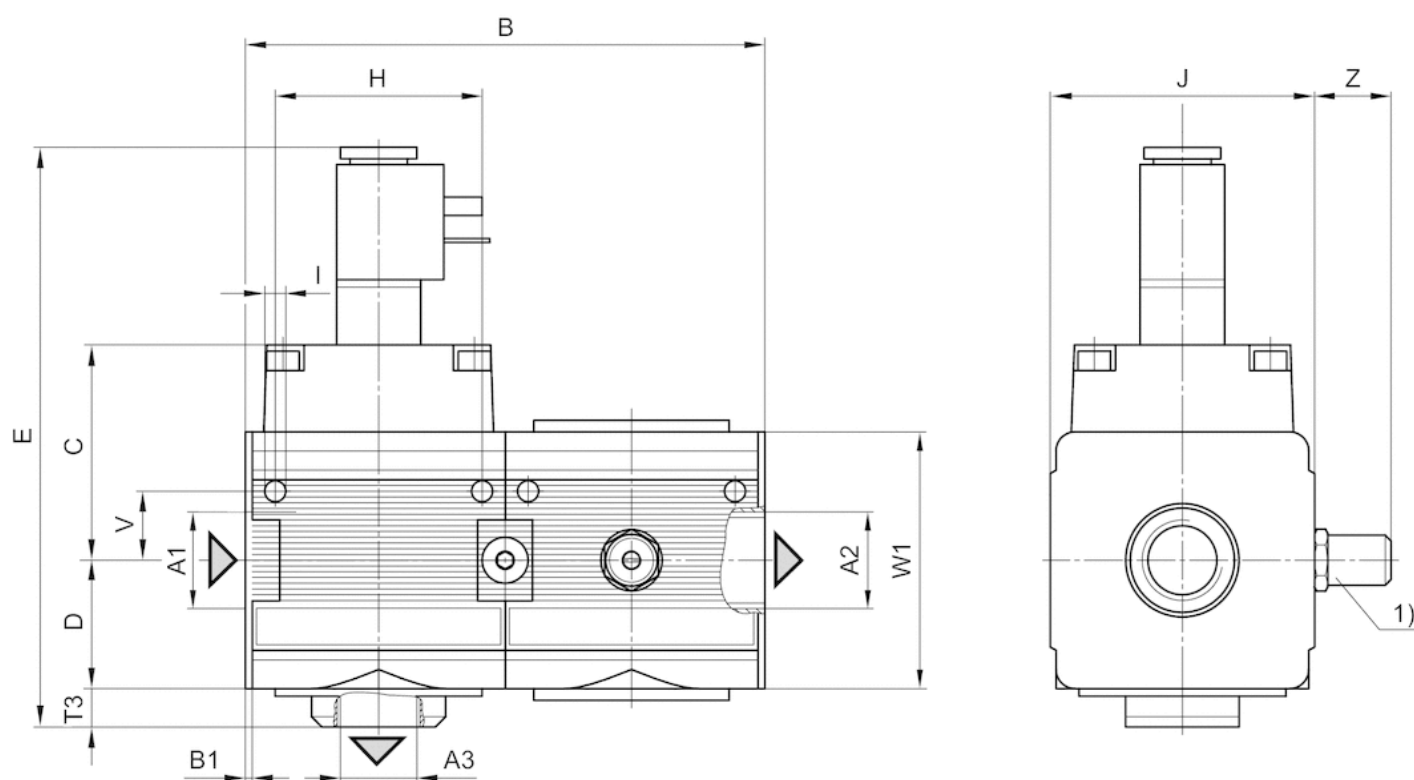
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.
Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.
The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Technical information

Material	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene styrene
Threaded bushing	Die cast zinc

Dimensions

Dimensions



A1 = input

A2 = output

A3 = output

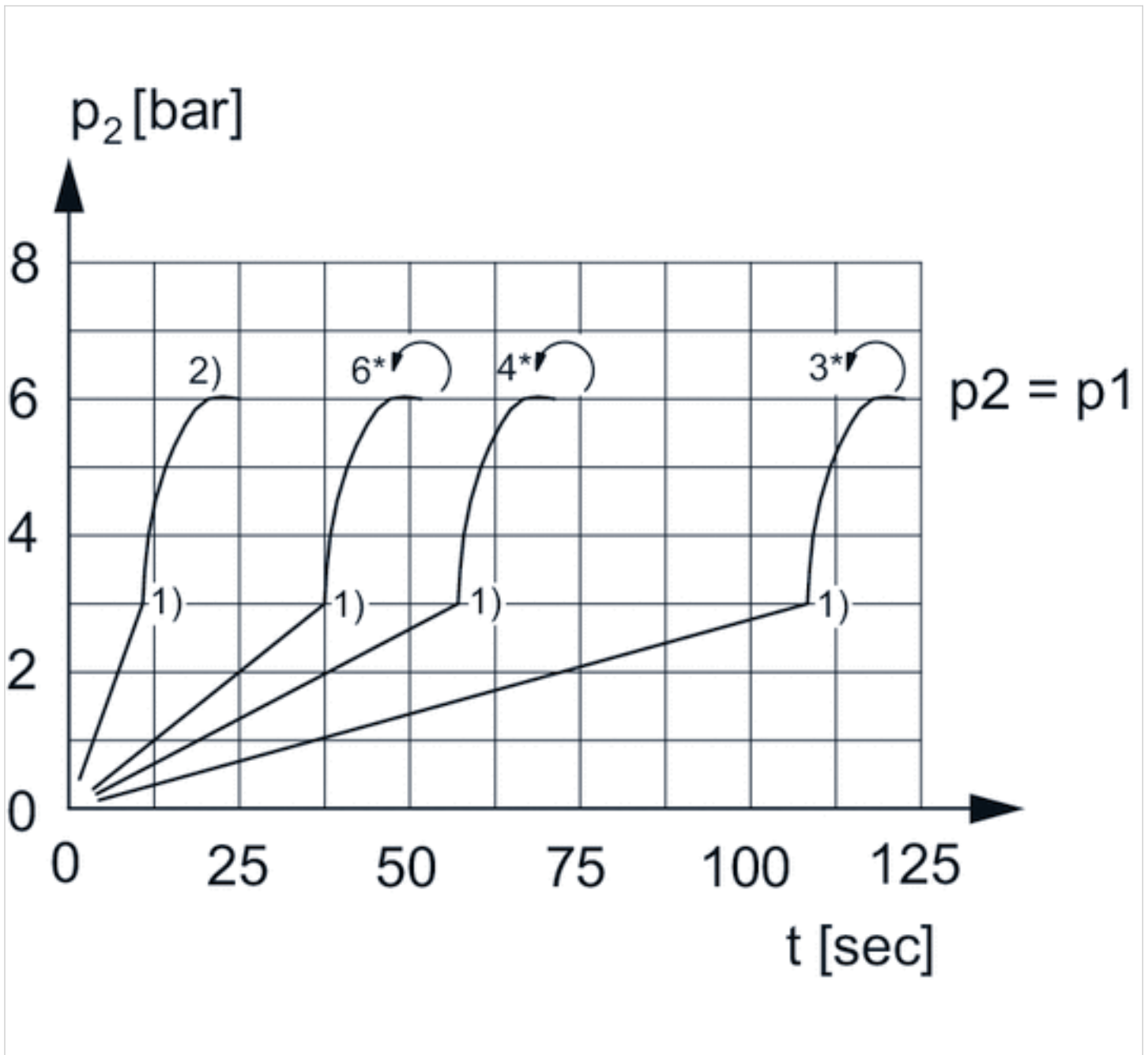
1) Adjustment screw for filling time

Dimensions in mm

A1	A2	A3	B	B1	C	D	E	H	I	J	K	M	O	R	T	T3	V	Z	U	V	W1
G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36	4.4	47	43.5	3	38	5.4	8	10	12.3	–	27.5	12.3	52
G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36	4.4	47	43.5	3	38	5.4	8	10	12.3	20	27.5	12.3	52

Diagrams

Secondary pressure while filling



p_1 = working pressure

p_2 = secondary pressure

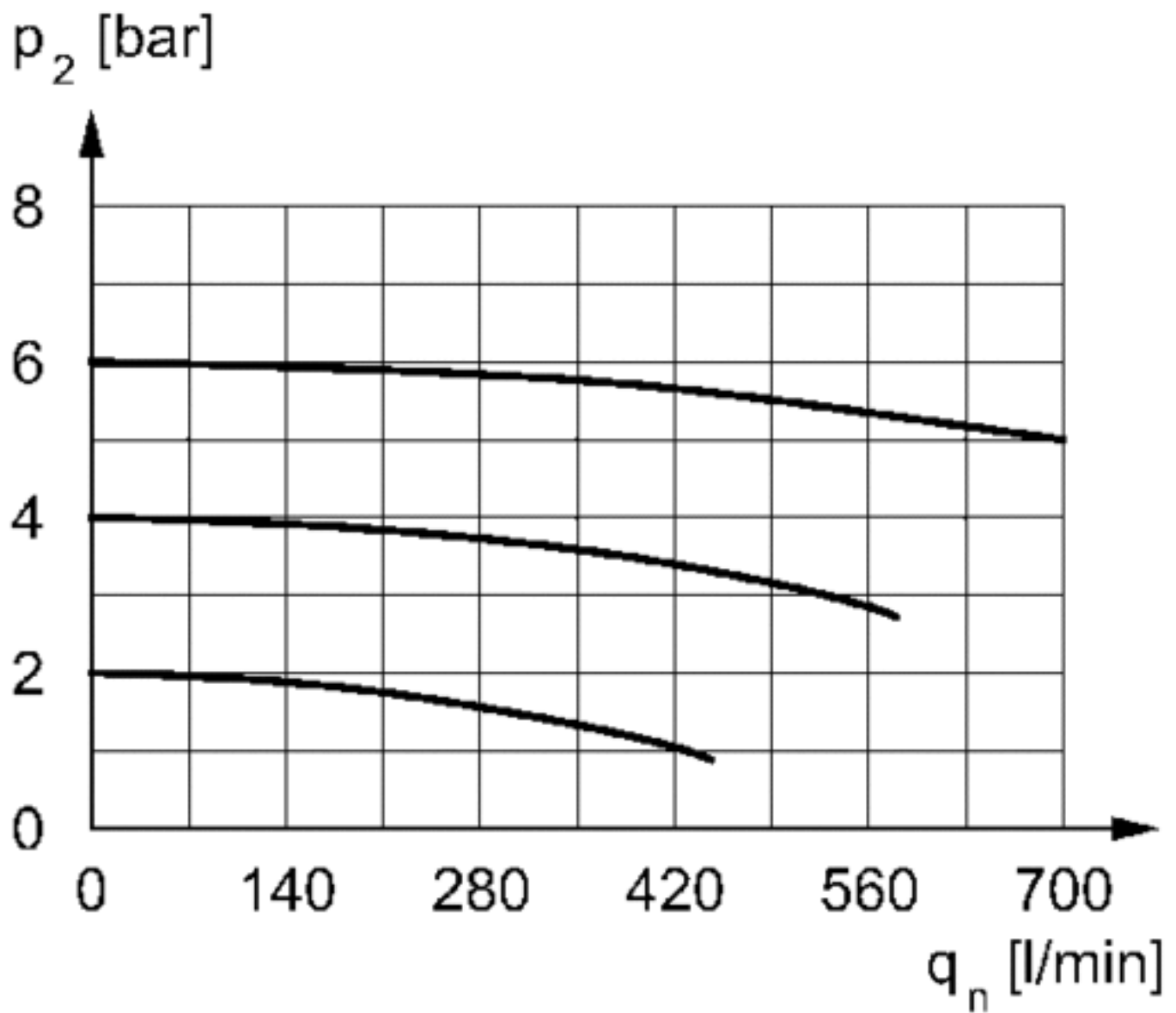
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure $\approx 0.5 \times p_1$ (50%)

2) Throttle fully opened

* Adjustment screw rotations

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



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