

Filling valve, pneumatically operated, Series NL4-SSV

- Compressed air connection G 1/2
- Pipe connection
- suitable for ATEX



Type

Sealing principle

Certificates

Working pressure min./max.

Control pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Max. particle size

Weight

Poppet valve, Can be assembled into blocks

Soft sealing

suitable for ATEX

0 ... 16 bar

2,5 ... 16 bar

-10 ... 60 °C



-10 ... 60 °C

Compressed air Neutral gases

5 µm

See table below

Technical data

Part No.		Port	Flow	Weight	
			Qn		
0821300936		G 1/2	4000 l/min	0,76 kg	1)
0821300935		G 1/2	4000 l/min	0,685 kg	2)

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

1) adjustable filling, Suitable for use in Ex zones 1, 2, 21, 22.

2) Filling with fixed diaphragm, Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

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

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.

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.

Suitable for use in Ex zones 1, 2, 21, 22.

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.

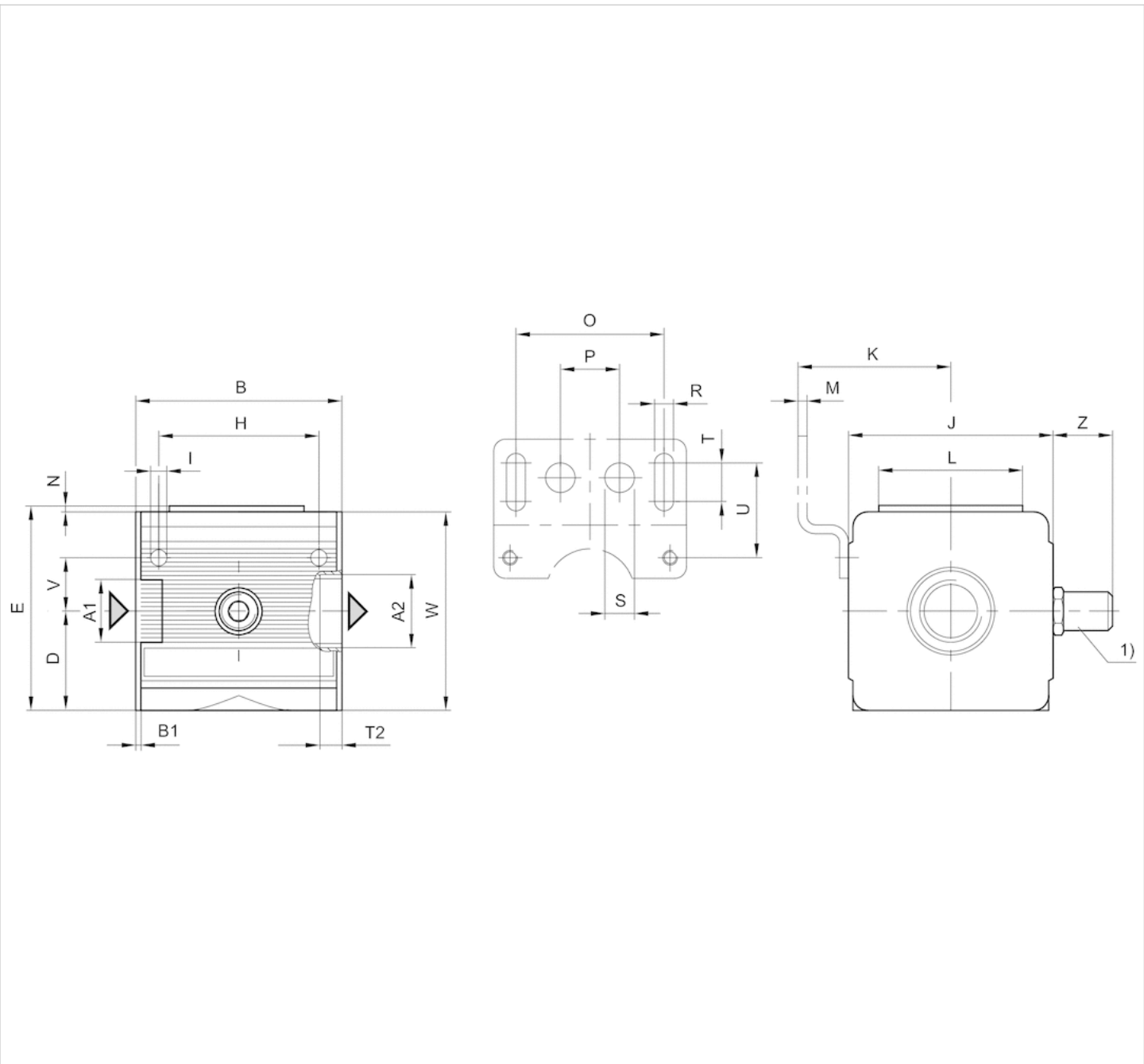
Technical information

Material	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Material		
Threaded bushing	Die cast zinc	

Dimensions

Dimensions



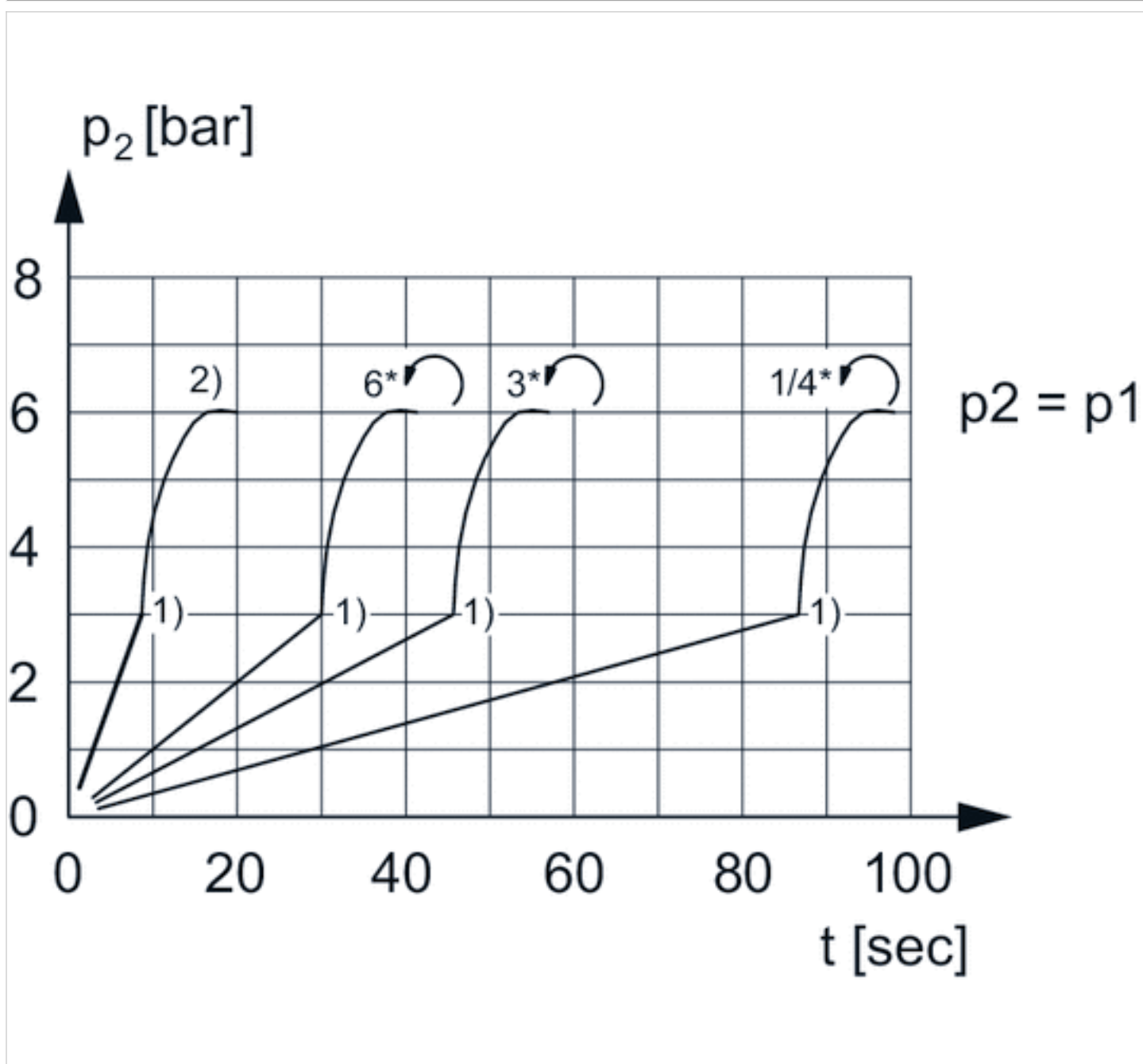
A1 = input
A2 = output
1) Adjustment screw for filling time

Dimensions in mm

A1	A2	B	B1	D	E	H	I	J	K	L	M	N	O	P	R	S	T	T2	U	V	W	Z
G 1/2	G 1/2	69.6	1.8	36.5	73	54	5.4	69	54.5	48	3	3	50	20	6.4	10	13	13	33	18	67	20
G 1/2	G 1/2	69.6	1.8	36.5	73	54	5.4	69	54.5	48	3	3	50	20	6.4	10	13	13	33	18	67	–

Diagrams

Secondary pressure while filling



p_1 = working pressure

p_2 = secondary pressure

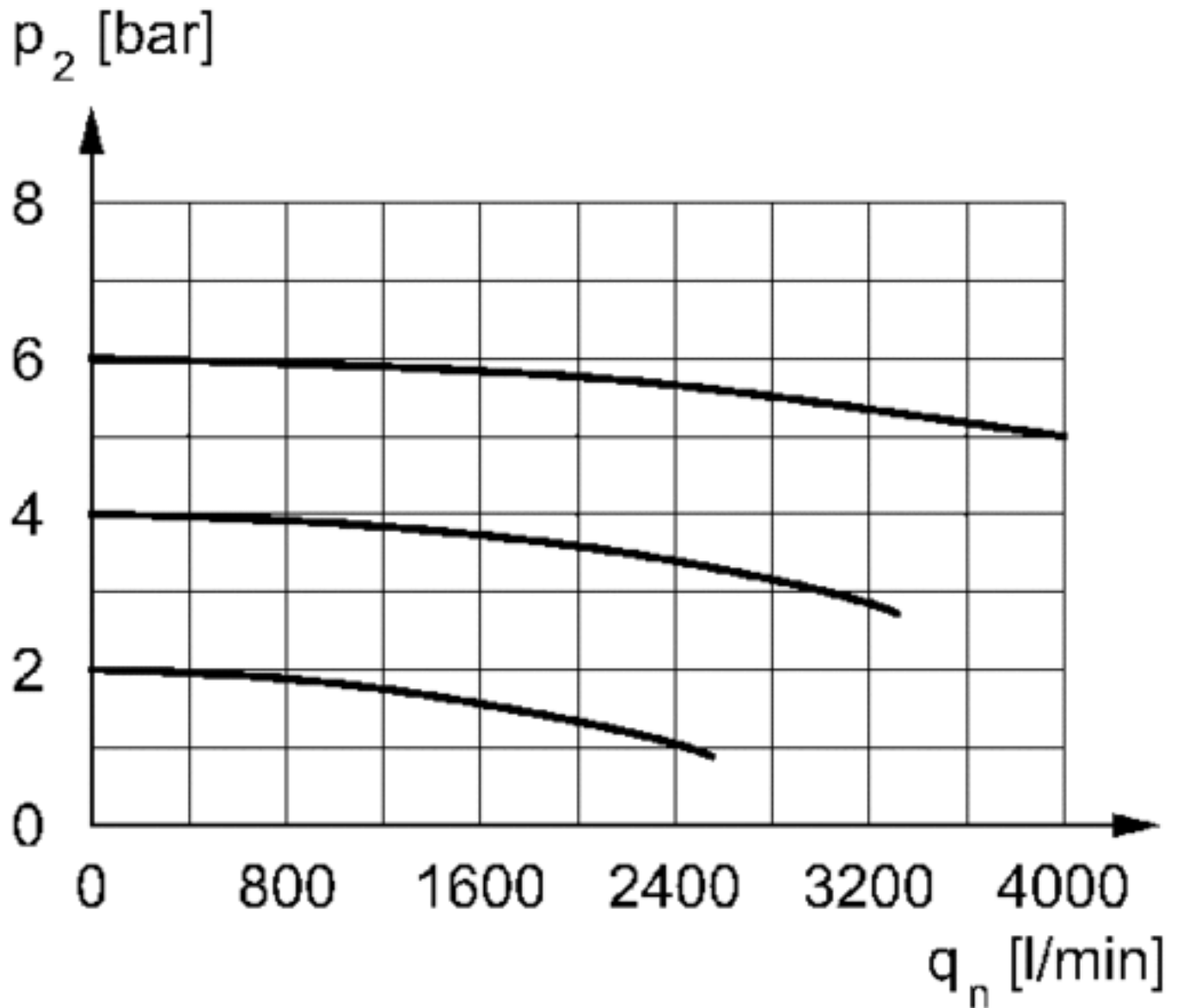
t = filling time, adjustable via adjustment screw (throttle)

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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