

Filling unit, pneumatically operated, Series NL4-SSU

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



Version	Poppet valve, Can be assembled into blocks
Pilot	internal
Sealing principle	Soft sealing
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 16 bar
Control pressure min./max.	2,5 ... 16 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Max. particle size	5 µm
Weight	1,69 kg

Technical data

Part No.	Port	Exhaust	Flow		
			Qn 1►2	Qn 2►3	
0821300949	G 1/2	G 1/2	2500 l/min	1600 l/min	1)
0821300954	G 1/2	G 1/2	2500 l/min	1600 l/min	2)

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

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

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

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

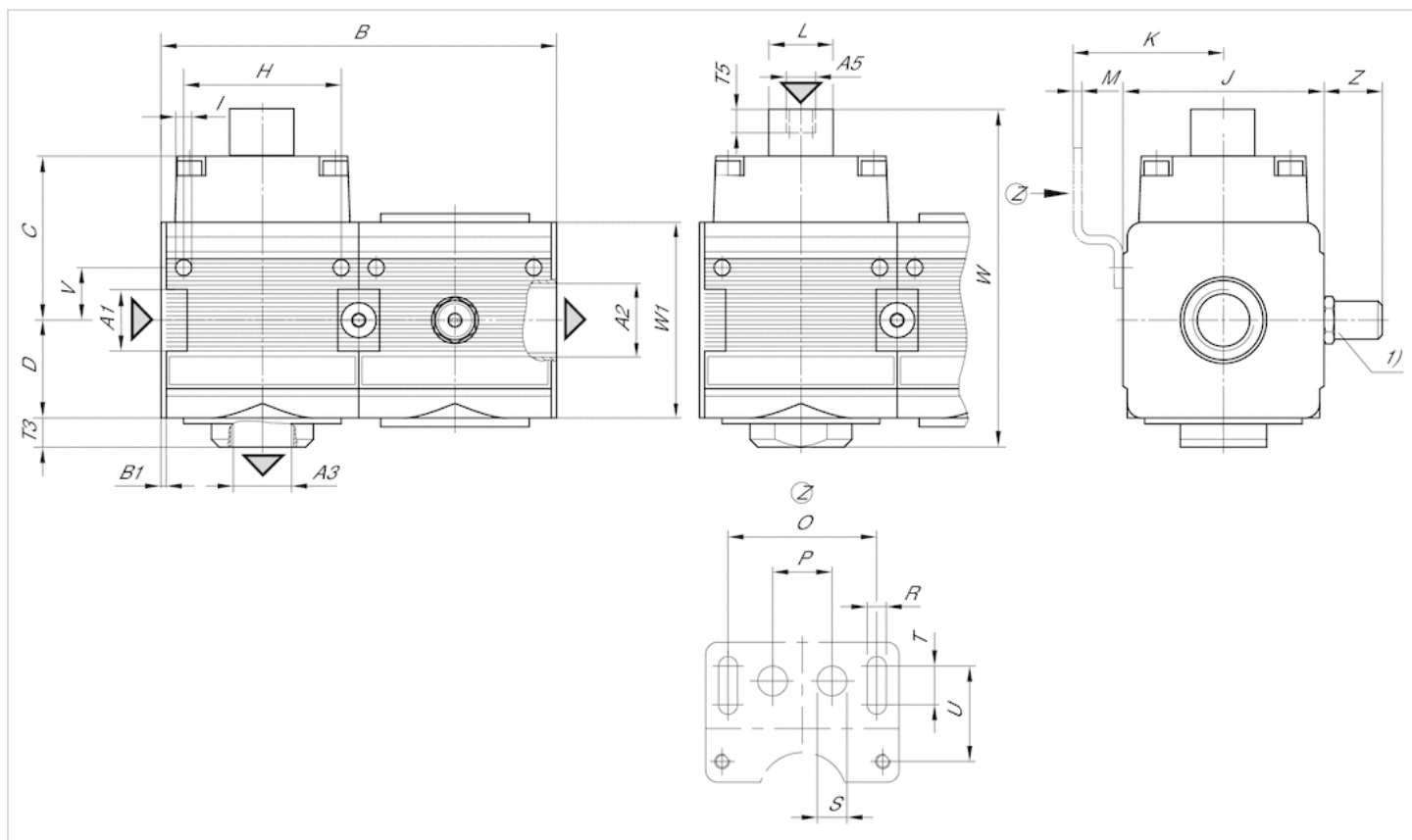
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

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

Dimensions

Dimensions



- A1 = input A2 = output
- A3 = ventilation port
- A5 = control pressure connection
- 1) Adjustment screw for filling time

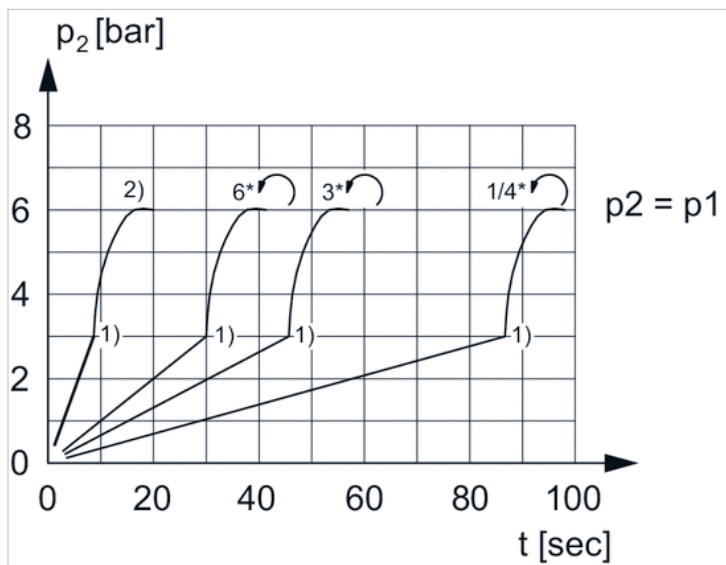
Dimensions in mm

A1	A2	A3	A5	B	B1	C	D	H	I	J	K	L	M	O	P	R	S	T	T3	T5	U	V
G 1/2	G 1/2	G 1/2	G 1/8	135.6	1.8	56.5	33.5	54	5.5	69	54.5	22	3	50	20	6.4	20	10	10	13	27.5	12.3
G 1/2	G 1/2	G 1/2	G 1/8	135.6	1.8	56.5	33.5	54	5.5	69	54.5	22	3	50	20	6.4	20	10	10	13	27.5	12.3

W	W1	Z
96	52	20
96	52	-

Diagrams

Secondary pressure while filling



p1 = working pressure

p2 = secondary pressure

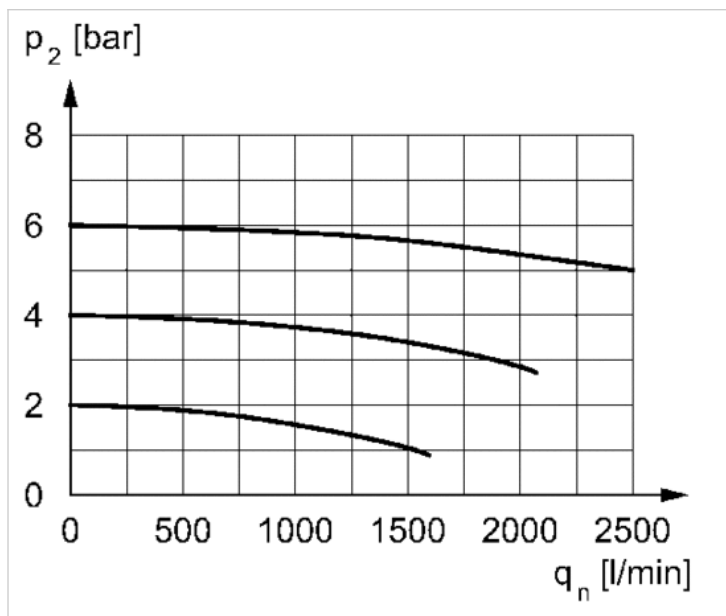
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure $\approx 0.5 \times p1$ (50%)

2) Throttle fully opened

* Adjustment screw rotations

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow