

Filling unit, pneumatically operated, Series NL1-SSU

- Compressed air connection G 1/4
- Pipe connection
- suitable for ATEX



Version

Pilot

Poppet valve, Can be assembled into blocks

Sealing principle

internal

Certificates

Soft sealing

Working pressure min./max.

suitable for ATEX

Control pressure min./max.

0 ... 16 bar

Ambient temperature min./max.

2,5 ... 16 bar

Medium temperature min./max.

-10 ... 60 °C

Medium

-10 ... 60 °C

Max. particle size

Compressed air Neutral gases

Weight

5 µm

0,83 kg

Technical data

Part No.	Port	Exhaust	Flow	Flow
			Qn 1→2	Qn 2→3
0821300795	G 1/4	G 1/4	2000 l/min	800 l/min

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

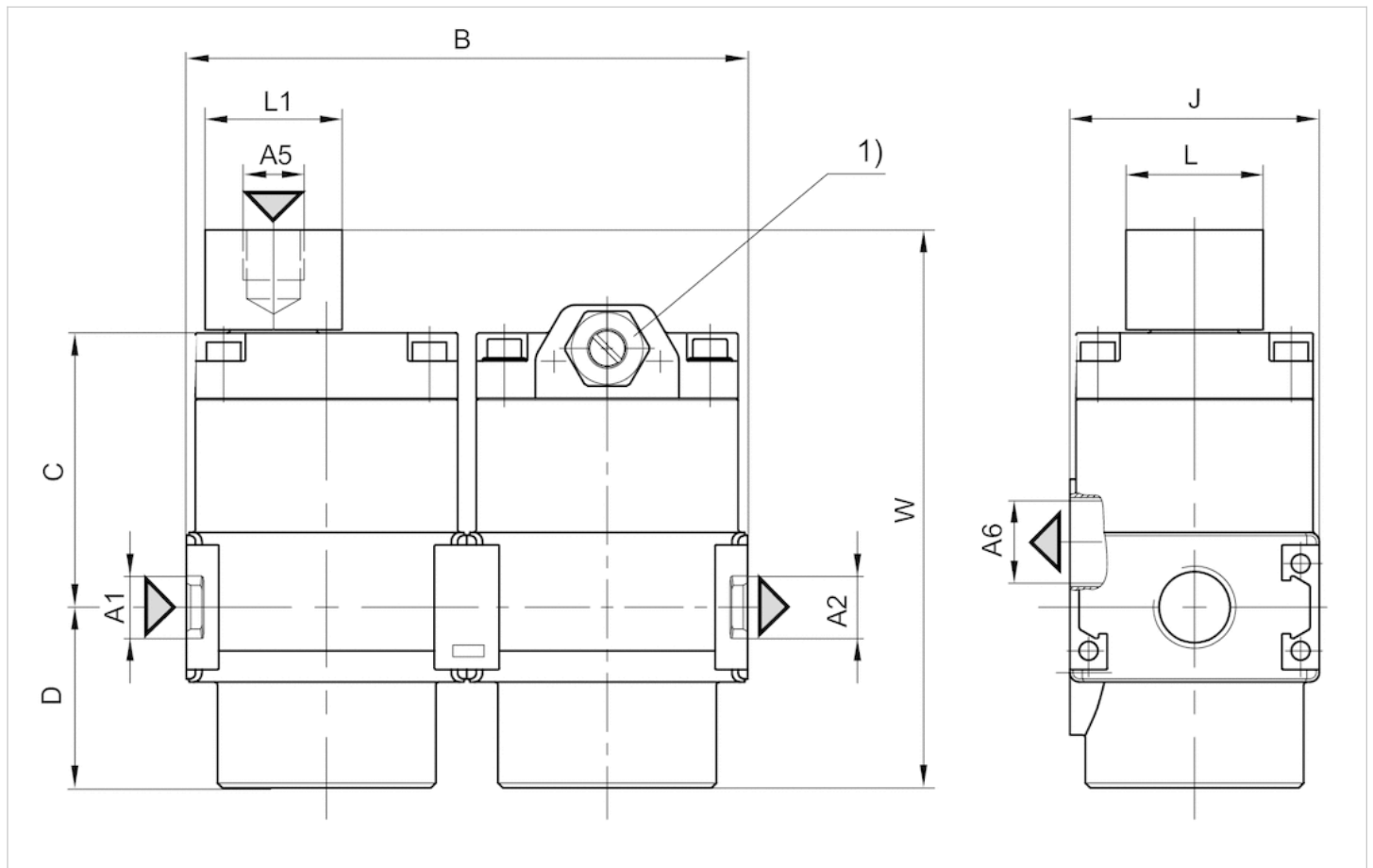
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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
A5 = control pressure connection
A6 = ventilation port
1) Adjustment screw for filling time

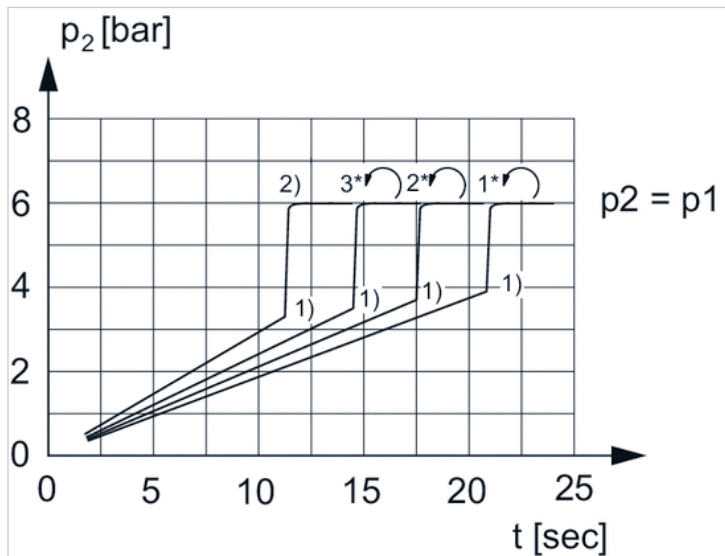
Dimensions in mm

A1	A2	A5	A6	B	C	D	J	L	L1	W
G 1/4	G 1/4	G 1/8	G 1/4	90	44.5	29	40	22	22	89.5



Diagrams

Secondary pressure while filling



p_1 = working pressure

p_2 = secondary pressure

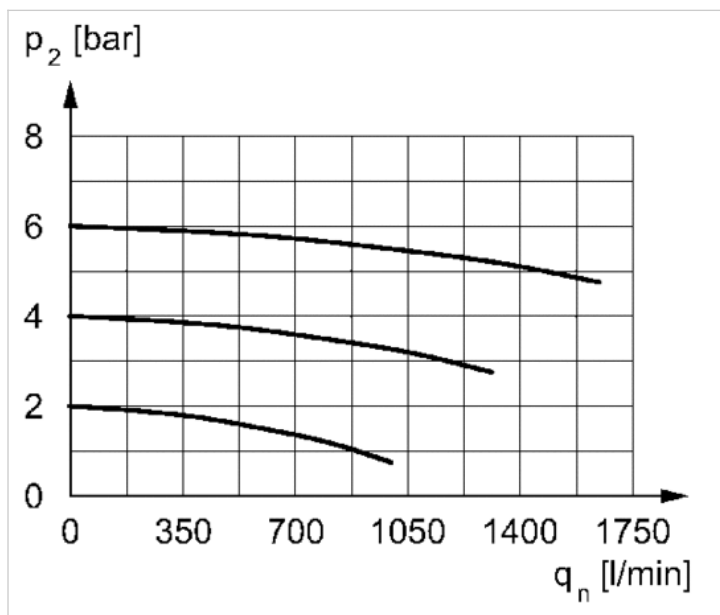
t = filling time, adjustable via adjustment screw (throttle)

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