# Filling valve, pneumatically operated, Series NL4-SSV

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


| | |
|---|---|
| Type | Poppet valve, Can be assembled into blocks |
| 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 | See table below |

## Technical data

| Part No. | | Port | Flow Qn | Weight | |
|---|---|---|---|---|---|
| 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.

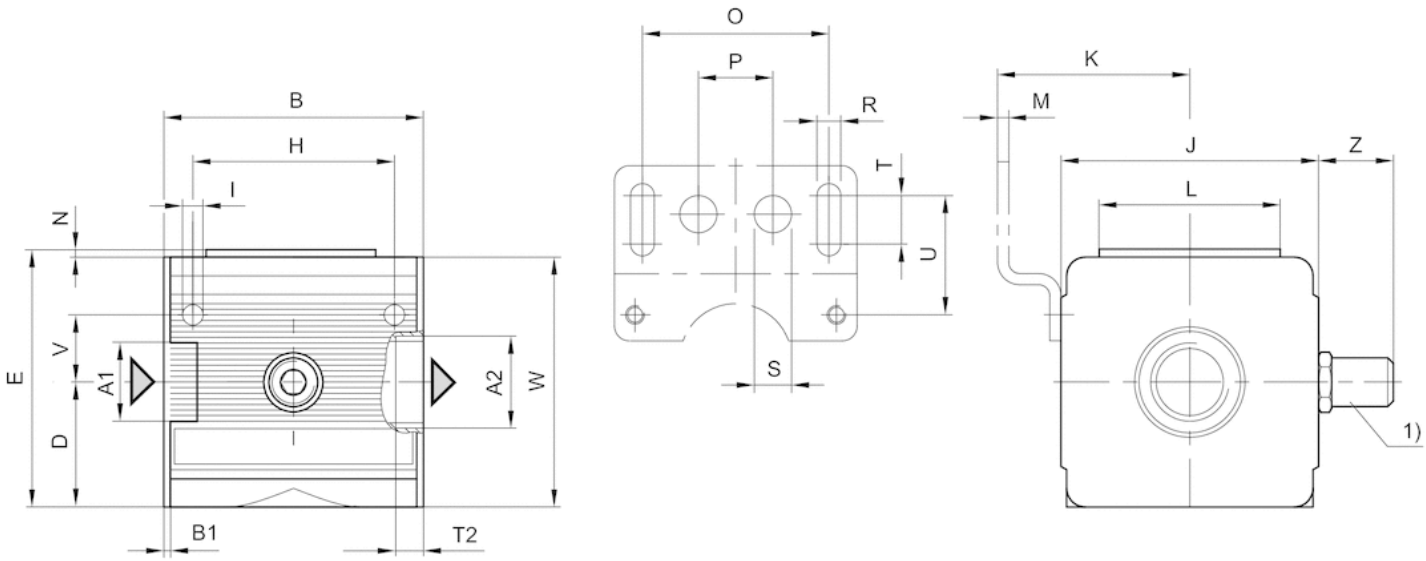
## Technical information

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

| Material | |
|---|---|
| Threaded bushing | Die cast zinc |

## Dimensions

### Dimensions



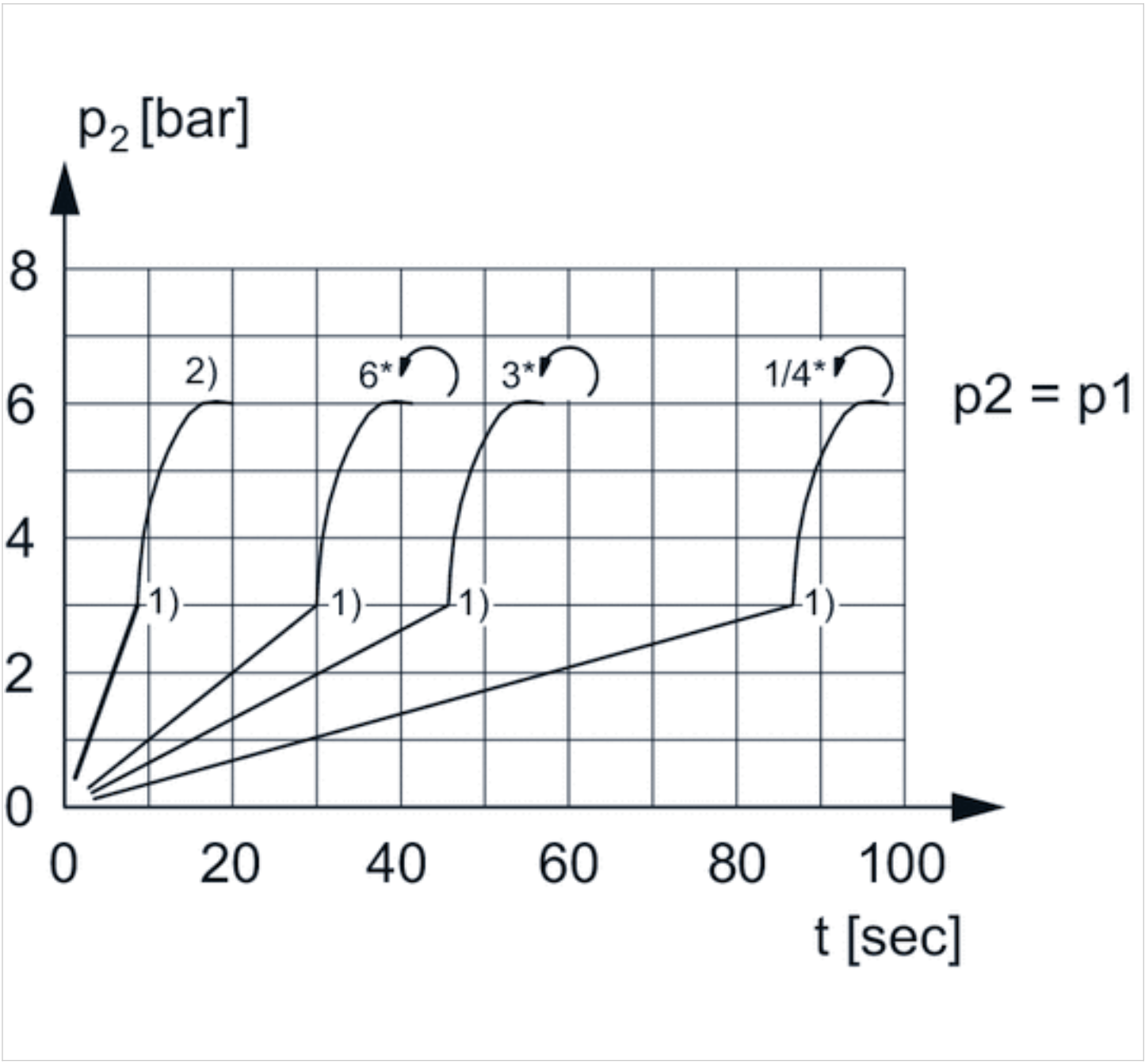

A1 = input
A2 = output
1) Adjustment screw for filling time

## 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 | – |

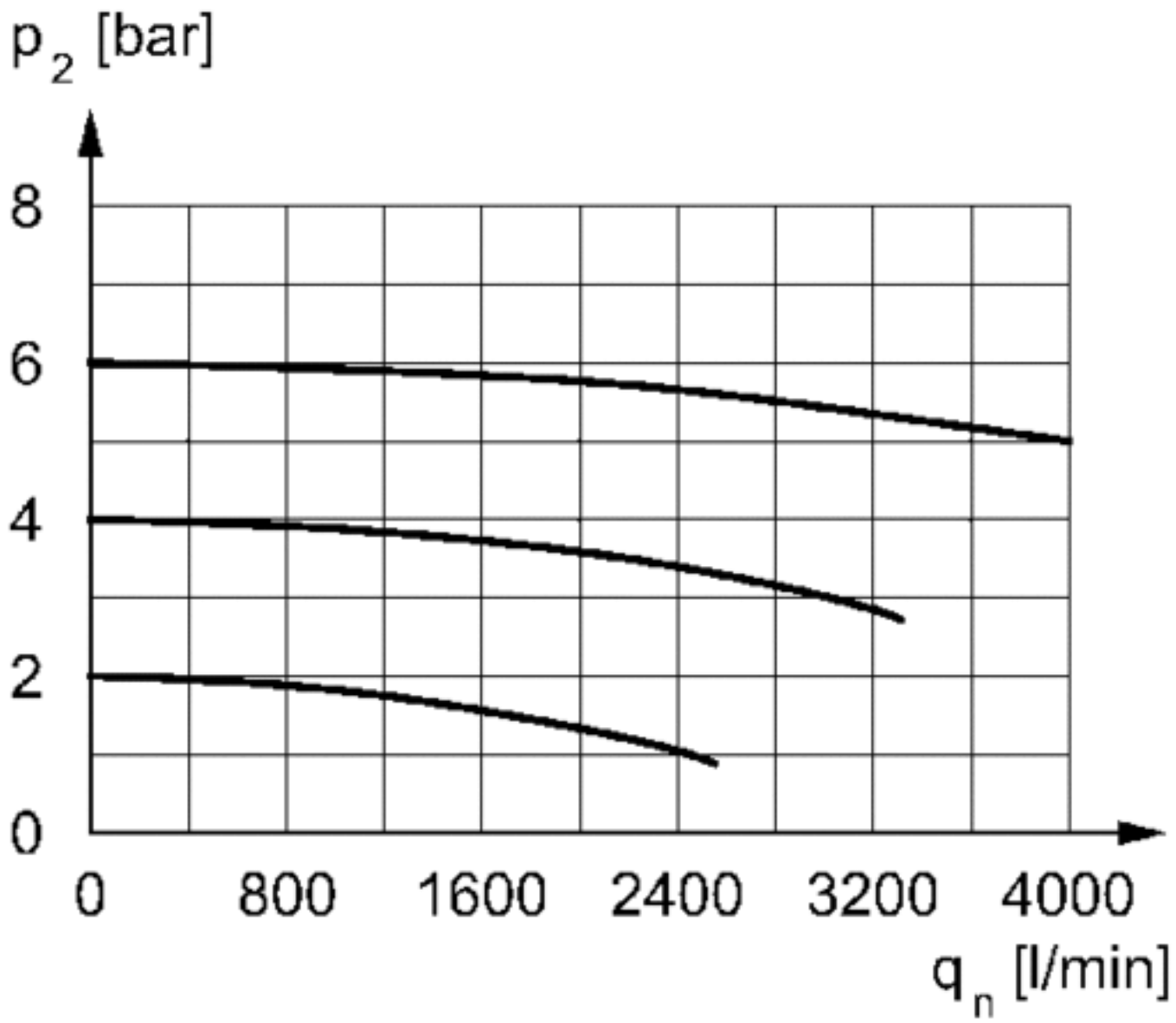
# Diagrams

## Secondary pressure while filling




p1 = working pressure
p2 = secondary pressure
t = filling time, adjustable via adjustment screw (throttle)
1) Switching point: adjustable filling time, fixed change-over pressure ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

## Flow rate characteristic




p2 = secondary pressure
qn = nominal flow

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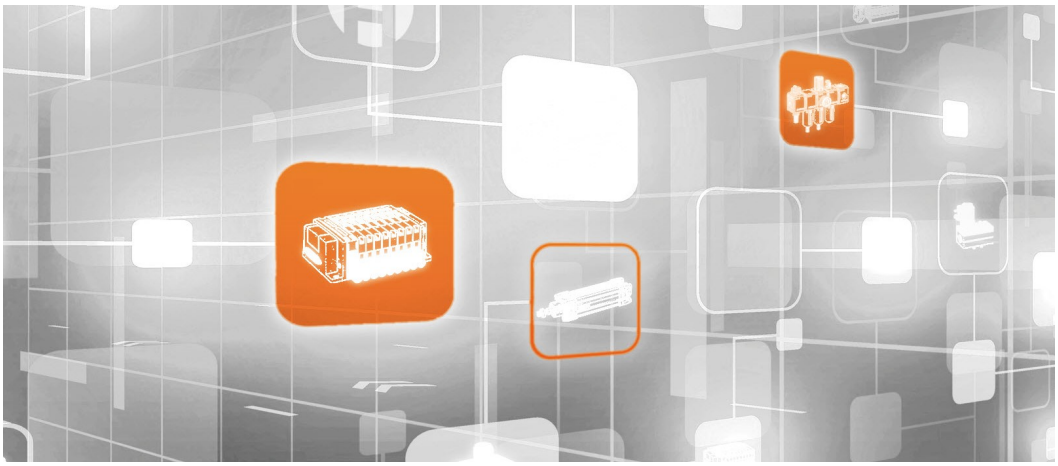

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