

# Filling unit, electrically operated, Series NL4-SSU

- ATEX optional
- Compressed air connection G 1/2
- Pipe connection
- Electrical connection: Plug, ISO 6952, form B



Version	Poppet valve, Can be assembled into blocks
Parts	Filling valve, 3/2-directional valve, electrically operated
Nominal flow 1 ▶ 2	2500 l/min
Nominal flow 2 ▶ 3	1600 l/min
Working pressure min./max.	2,5 ... 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
0821300950		—	G 1/2	G 1/2	G 1/2
0821300951		—	G 1/2	G 1/2	G 1/2
0821300952		—	G 1/2	G 1/2	G 1/2
0821300953			G 1/2	G 1/2	G 1/2
0821300955		—	G 1/2	G 1/2	G 1/2
0821300956		—	G 1/2	G 1/2	G 1/2
0821300957		—	G 1/2	G 1/2	G 1/2

Part No.	Operationalvoltage	Operationalvoltage	Operationalvoltage	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
0821300950	24 V	-	-	4,8 W
0821300951	-	230 V	230 V	-
0821300952	-	-	-	-
0821300953	-	-	-	-
0821300955	24 V	-	-	4,8 W
0821300956	-	230 V	230 V	-
0821300957	-	-	-	-

Part No.	Holding power	Switch-on power	Manual override	Electrical connection
	AC 50 Hz	AC 50 Hz		Pilot valve
0821300950	-	-	-	Plug, ISO 6952, form B

Part No.	Holding power	Switch-on power	Manual override	Electrical connection
	AC 50 Hz	AC 50 Hz		Pilot valve
0821300951	8,5 VA	11,8 VA	-	Plug, ISO 6952, form B
0821300952	-	-	-	Plug, ISO 6952, form B
0821300953	-	-	with detent	Plug, ISO 6952, form B
0821300955	-	-	-	Plug, ISO 6952, form B
0821300956	8,5 VA	11,8 VA	-	Plug, ISO 6952, form B
0821300957	-	-	-	Plug, ISO 6952, form B

Part No.	Connector standard	basic valve with electrical connector	Reverse polarity protection
0821300950	ISO 6952	-	Protected against polarity reversal
0821300951	ISO 6952	-	Protected against polarity reversal
0821300952	-	pilot valve without coil	Protected against polarity reversal
0821300953	-	pilot valve without coil	Protected against polarity reversal
0821300955	ISO 6952	-	Protected against polarity reversal
0821300956	ISO 6952	-	Protected against polarity reversal
0821300957	-	pilot valve without coil	Protected against polarity reversal

Part No.	Weight	
0821300950	1,74 kg	1)
0821300951	1,74 kg	1)
0821300952	1,7 kg	1)
0821300953	1,84 kg	1)
0821300955	1,74 kg	2)
0821300956	1,74 kg	2)
0821300957	1,7 kg	2)

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

1) adjustable filling

2) 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.

ATEX optional: The ATEX ID depends on the selected ATEX coil.

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.

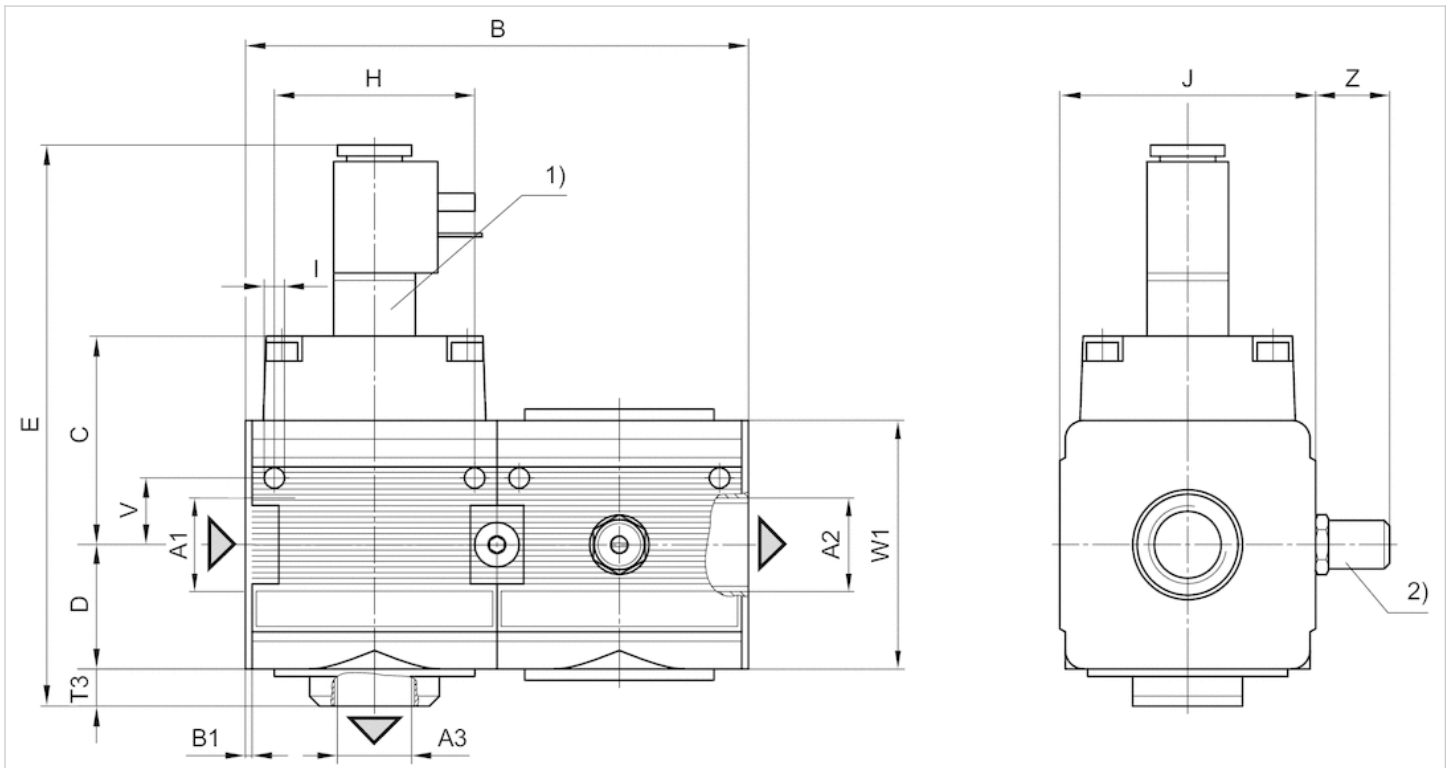
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

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

# Dimensions

## Dimensions



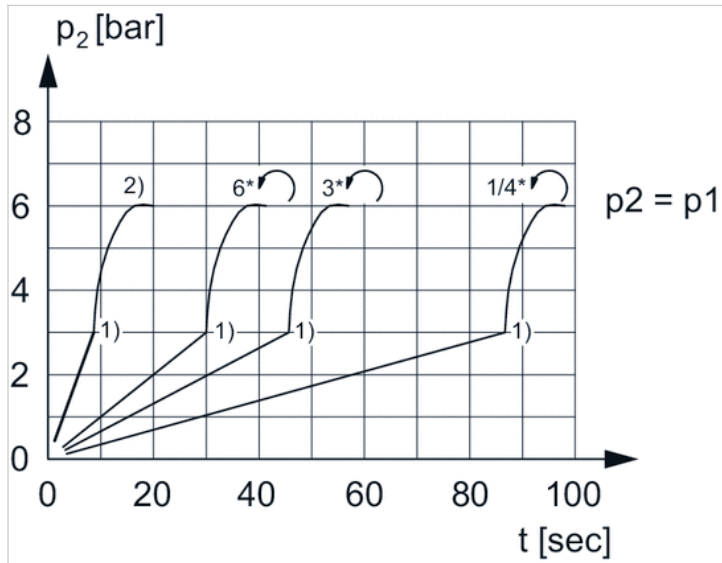
- A1 = input A2 = output
- A3 = ventilation port
- 1) electrically operated
- 2) Adjustment screw for filling time

## Dimensions in mm

A1	A2	A3	B	B1	C	D	E	H	I	J	T3	W1	Z
G 1/2	G 1/2	G 1/2	135.6	1.8	56.5	33.5	151	54	5.5	69	10	52	20
G 1/2	G 1/2	G 1/2	135.6	1.8	56.5	33.5	151	54	5.5	69	10	52	-

## Diagrams

### Secondary pressure while filling



$p_1$  = working pressure

$p_2$  = secondary pressure

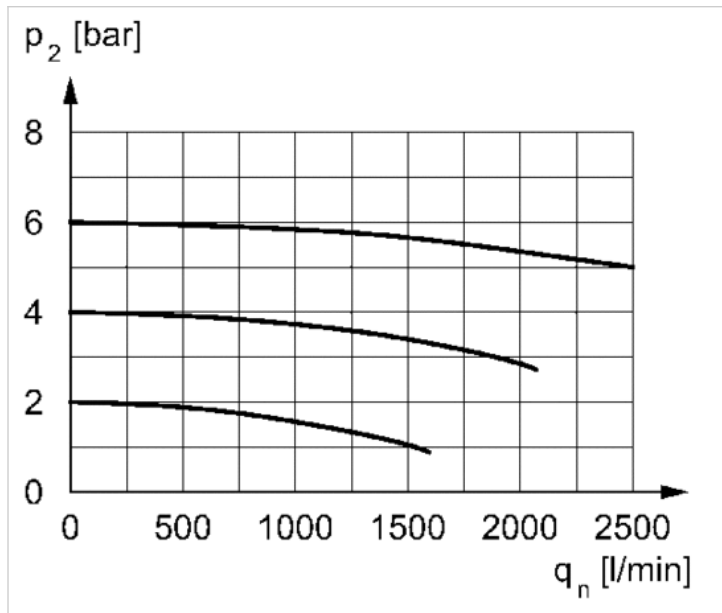
$t$  = filling time, adjustable via adjustment screw (throttle)

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