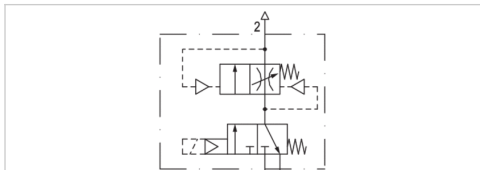


# Filling unit, electrically operated, Series NL2-SSU

- ATEX optional
- Compressed air connection G 1/4
- 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	900 l/min
Nominal flow 2 ▶ 3	450 l/min
Working pressure min./max.	3 ... 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

## Technical data

Part No.	Compressed air connection input	Compressed air connection output	Exhaust	Operationalvoltage
				DC
0821300941	G 1/4	G 1/4	G 1/4	24 V
0821300942	G 1/4	G 1/4	G 1/4	-
0821300943	G 1/4	G 1/4	G 1/4	-
0821300944	G 1/4	G 1/4	G 1/4	-
0821300946	G 1/4	G 1/4	G 1/4	24 V
0821300947	G 1/4	G 1/4	G 1/4	-
0821300948	G 1/4	G 1/4	G 1/4	-

Part No.	Operationalvoltage	Operationalvoltage	Power consumption	Holding power
	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz
0821300941	-	-	4,8 W	-
0821300942	230 V	230 V	-	-
0821300943	-	-	-	-
0821300944	-	-	-	-
0821300946	-	-	4,8 W	-
0821300947	230 V	230 V	-	8,5 VA
0821300948	-	-	-	-

Part No.	Switch-on power	Manual override	Electrical connection	Connector standard
	AC 50 Hz		Pilot valve	
0821300941	-	-	Plug, ISO 6952, form B	ISO 6952

Part No.	Switch-on power	Manual override	Electrical connection	Connector standard
	AC 50 Hz		Pilot valve	
0821300942	11,8 VA	-	Plug, ISO 6952, form B	ISO 6952
0821300943	-	-	-	-
0821300944	-	with detent	-	-
0821300946	-	-	Plug, ISO 6952, form B	ISO 6952
0821300947	11,8 VA	-	Plug, ISO 6952, form B	ISO 6952
0821300948	-	with detent	-	-

Part No.	basic valve with electrical connector	Reverse polarity protection	Weight	
0821300941	-	Protected against polarity reversal	0,63 kg	1)
0821300942	-	Protected against polarity reversal	0,63 kg	1)
0821300943	pilot valve without coil	Protected against polarity reversal	0,59 kg	1)
0821300944	pilot valve without coil	Protected against polarity reversal	0,81 kg	2)
0821300946	-	Protected against polarity reversal	0,63 kg	3)
0821300947	-	Protected against polarity reversal	0,63 kg	3)
0821300948	pilot valve without coil	Protected against polarity reversal	0,59 kg	3)

## Technical information

2) adjustable filling. With manual override.

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.

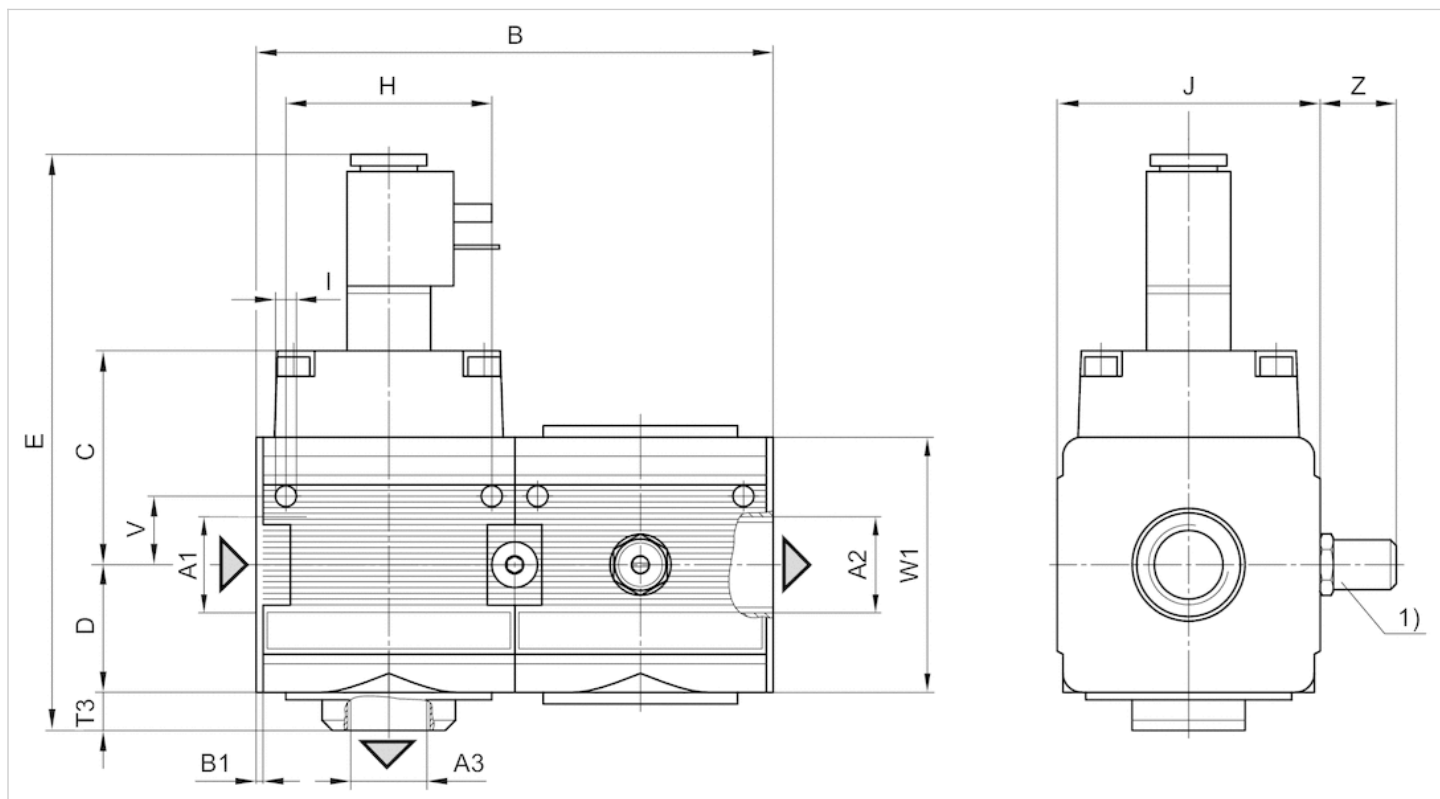
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

## Technical information

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

## Dimensions

### Dimensions



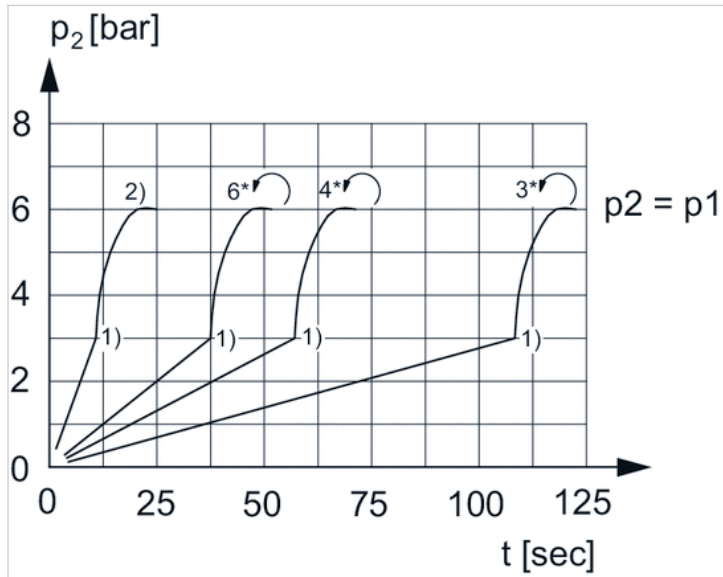
A1 = input A2 = output A3 = output  
1) Adjustment screw for filling time

### Dimensions in mm

A1	A2	A3	B	B1	C	D	E	H	I	J	K	M	O	R	T	T3	V	Z	U	V	W1
G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36	4.4	47	43.5	3	38	5.4	8	10	12.3	-	27.5	12.3	52
G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36	4.4	47	43.5	3	38	5.4	8	10	12.3	-	27.5	12.3	52
G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36	4.4	47	43.5	3	38	5.4	8	10	12.3	20	27.5	12.3	52

## Diagrams

### Secondary pressure while filling



p1 = working pressure

p2 = secondary pressure

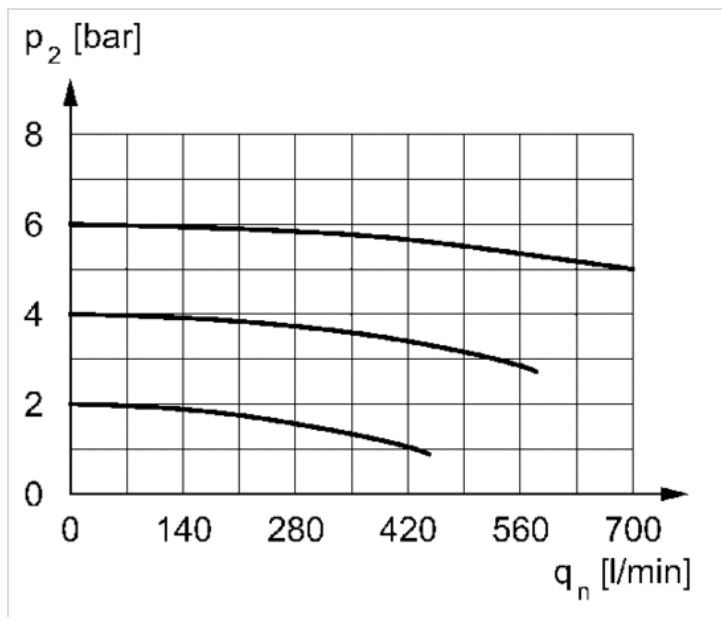
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure  $\approx 0.5 \times p_1$  (50%)

2) Throttle fully opened

\* Adjustment screw rotations

### Flow rate characteristic



p2 = secondary pressure  
qn = nominal flow