

Filling unit, electrically operated, Series NL4-SSU

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



Poppet valve, Can be assembled into Type

blocks

Parts Filling valve, 3/2-directional valve,

electrically operated

Nominal flow 1 ▶ 2 2500 I/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 5 µm Max. particle size Protection class acc. to DIN EN 61140 IP65

with plug

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
0821300952		_	G 1/2	G 1/2	G 1/2
0821300953	(aude)		G 1/2	G 1/2	G 1/2
0821300955		_	G 1/2	G 1/2	G 1/2
0821300957	To Table	_	G 1/2	G 1/2	G 1/2

Part No.	Operational voltage	Power consumption	Manual override		
	DC	DC			
0821300950	24 V	4,8 W	-		
0821300952	-	-	-		
0821300953	-	-	with detent		
0821300955	24 V	4,8 W	-		
0821300957	-	-	-		

Part No.	Electrical connection Pilot valve	Connector standard	basic valve with electrical connector
0821300950	Plug, ISO 6952, form B	ISO 6952	-
0821300952	Plug, ISO 6952, form B	-	pilot valve without coil
0821300953	Plug, ISO 6952, form B	-	pilot valve without coil
0821300955	Plug, ISO 6952, form B	ISO 6952	-
0821300957	Plug, ISO 6952, form B	-	pilot valve without coil





Part No.	Reverse polarity protection	Weight	
0821300950	Protected against polarity reversal	1,74 kg	1)
0821300952	Protected against polarity reversal	1,7 kg	1)
0821300953	Protected against polarity reversal	1,84 kg	1)
0821300955	Protected against polarity reversal	1,74 kg	2)
0821300957	Protected against polarity reversal	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 .

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.

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.

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.

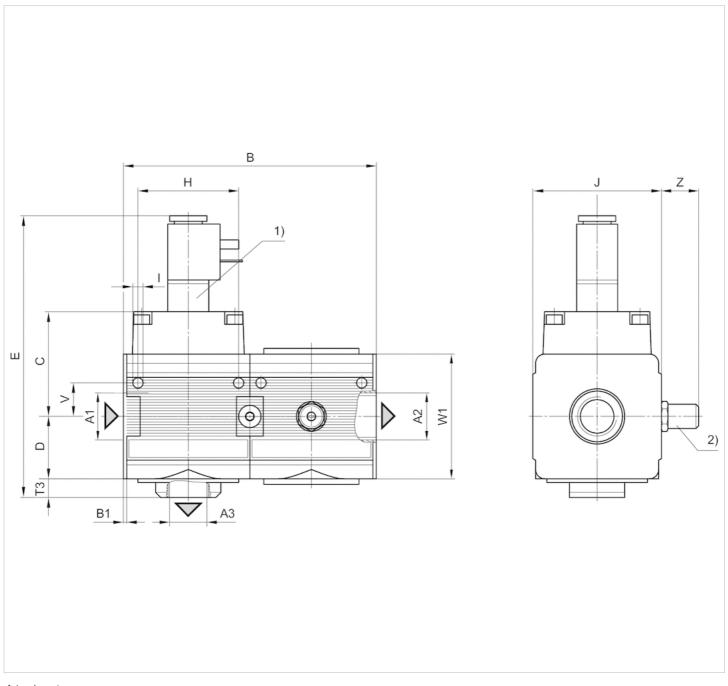
Technical information

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

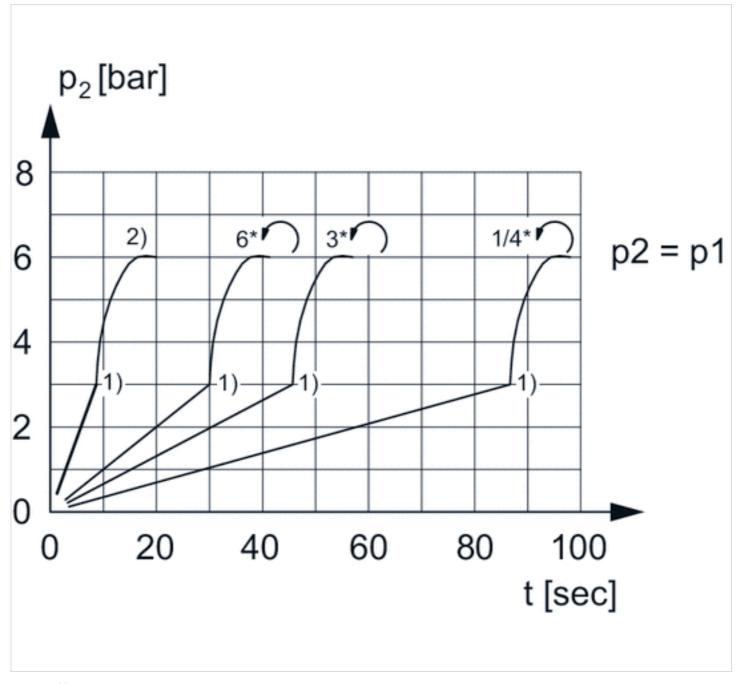
Dimensions in mm

A1	A2	A3	В	B1	С	D	Е	Н	1	J	Т3	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



p1 = working pressure

p2 = secondary pressure

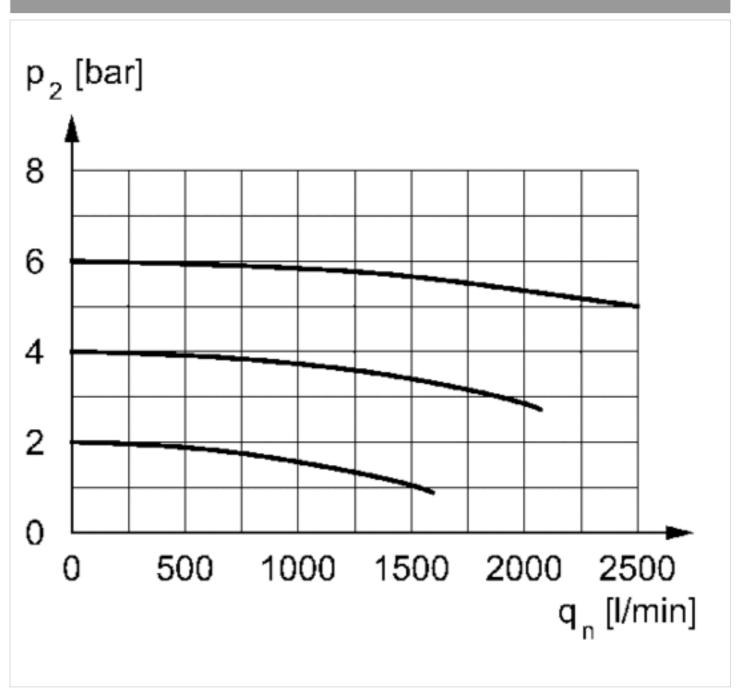
t = filling time, adjustable via adjustment screw (throttle)

- 1) Switching point: adjustable filling time, fixed change-over pressure $\approx 0.5 \text{ x p1}$ (50%)
- 2) Throttle fully opened
- * Adjustment screw rotations





Flow rate characteristic



p2 = secondary pressure qn = nominal flow

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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