

Filling unit, electrically operated, Series NL6-SSU

- Compressed air connection G 3/4 G 1
- Pipe connection



Type Poppet valve, Can be assembled into

blocks

IP65

Parts Filling valve, 3/2-directional valve,

electrically operated

Nominal flow $1 \triangleright 2$ 8750 l/min Nominal flow $2 \triangleright 3$ 3900 l/min Working pressure min./max. 2,5 ... 10 bar

Medium Compressed air Neutral gases

Protection class acc. to DIN EN 61140

with plug

Duty cycle 100 %

Weight See table below

Technical data

Part No.		Compressed air connection input	Compressed air connection output	Exhaust		
0821300959		G 3/4	G 3/4	G 1/2		
0821300960		G 3/4	G 3/4	G 1/2		
0821300961		G 1	G 1	G 1/2		
0821300962		G 1	G 1	G 1/2		
0821300963	Control of the Contro	G 1	G 1	G 1/2		

Part No.	Operational voltage	Operational voltage	Operational voltage AC 60 Hz			
	DC	AC 50 Hz				
0821300959	24 V	-	-			
0821300960	-	-	-			
0821300961	24 V	-	-			
0821300962	-	230 V	230 V			
0821300963	-	-	-			

Part No.	Power consumption	Holding power	Switch-on power	Manual override	
	DC	AC 50 Hz	AC 50 Hz		
0821300959	4,8 W	-	-	-	
0821300960	-	-	-	without	
0821300961	4,8 W	-	-	-	
0821300962	-	8,5 VA	11,8 VA	-	
0821300963	-	-	-	without	



Part No.	Electrical connection Pilot valve	basic valve with electrical connector
0821300959	Plug, ISO 6952, form B	-
0821300960	-	pilot valve without coil
0821300961	Plug, ISO 6952, form B	-
0821300962	Plug, ISO 6952, form B	-
0821300963	-	pilot valve without coil

Part No.	Reverse polarity protection	Weight
0821300959	Protected against polarity reversal	3,13 kg
0821300960	-	3,06 kg
0821300961	Protected against polarity reversal	3,13 kg
0821300962	Protected against polarity reversal	3,13 kg
0821300963	-	3,06 kg

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

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.

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.

Recommended pre-filtering 8 µm

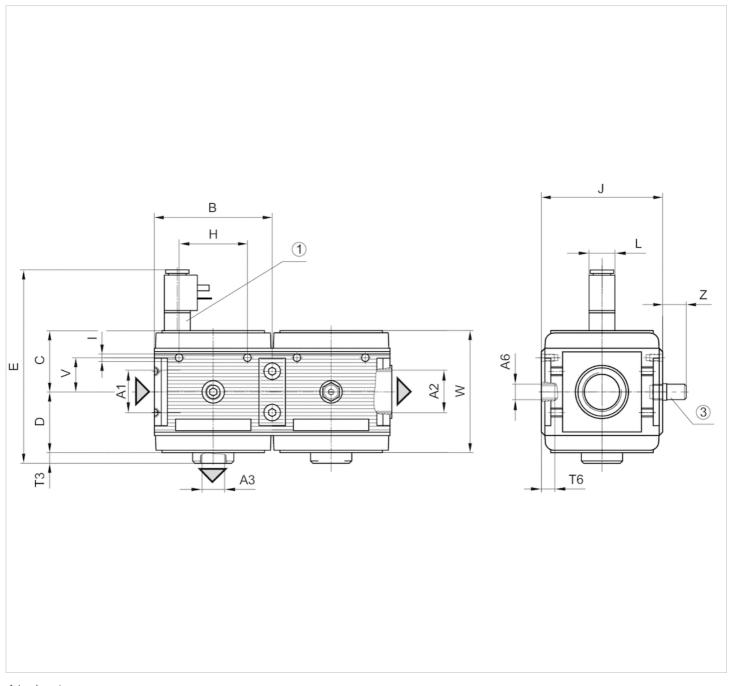
Technical information

Material						
Housing	Die-cast aluminum					
Front plate	Acrylonitrile butadiene styrene					
Seals	Acrylonitrile butadiene styrene					



Dimensions

Dimensions



A1 = input

A2 = output

A3 = ventilation port

- 1) electrically operated
- 2) Adjustment screw for filling time

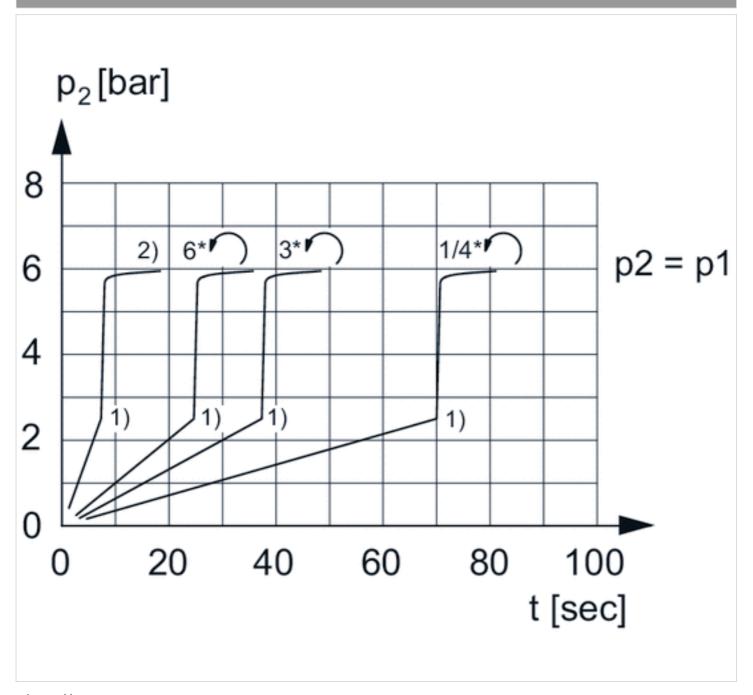
Dimensions in mm

A1	A2	A3	A6	В	С	D	Е	Н	1	J	L	Т3	T6	V	W	Z
G 3/4	G 3/4	G 1/2	G 1/4	100	52	51.5	164.5	58	M6	103	22	9.5	7	29	103.5	20
G 1	G 1	G 1/2	G 1/4	100	52	51.5	164.5	58	M6	103	22	9.5	7	29	103.5	20



Diagrams

Secondary pressure while filling



p1 = working pressure

p2 = secondary pressure

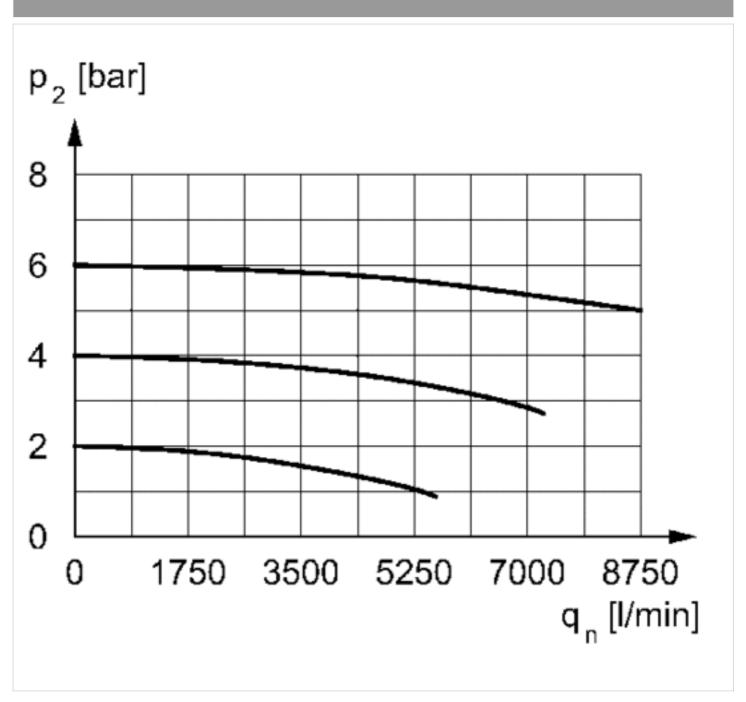
t = filling time, adjustable via adjustment screw (throttle)

- 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

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



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