



Filling unit, electrically operated, Series NL1-SSU

- Compressed air connection G 1/4
- Pipe connection



Type Poppet valve, Can be assembled into

blocks

IP65

Parts Filling valve, 3/2-directional valve,

electrically operated

Nominal flow $1 \triangleright 2$ 2000 l/min Nominal flow $2 \triangleright 3$ 800 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
0821300796		_	G 1/4	G 1/4	G 1/4
0821300797		_	G 1/4	G 1/4	G 1/4
0821300798	- 11875. 1281 (A)	_	G 1/4	G 1/4	G 1/4
0821300799	To Clark		G 1/4	G 1/4	G 1/4

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
0821300796	24 V	-	-
0821300797	-	230 V	230 V
0821300798	-	-	-
0821300799	-	-	-

Part No.	Power consumption	Holding power	Switch-on power	Manual override
	DC	AC 50 Hz	AC 50 Hz	
0821300796	4,8 W	-	-	-
0821300797	-	8,5 VA	11,8 VA	-
0821300798	-	-	-	with detent
0821300799	-	-	-	-

Part No.	Electrical connection	Connector standard	basic valve with electrical connector
	Pilot valve		
0821300796	Plug, ISO 6952, form B	ISO 6952	-
0821300797	Plug, ISO 6952, form B	ISO 6952	-



Part No.	Electrical connection Pilot valve	Connector standard	basic valve with electrical connector
0821300798	-	-	pilot valve without coil
0821300799	-	-	pilot valve without coil

Part No.	Reverse polarity protection	Weight
0821300796	Protected against polarity reversal	0,88 kg
0821300797	Protected against polarity reversal	0,88 kg
0821300798	-	0,85 kg
0821300799	-	0,85 kg

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

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.

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

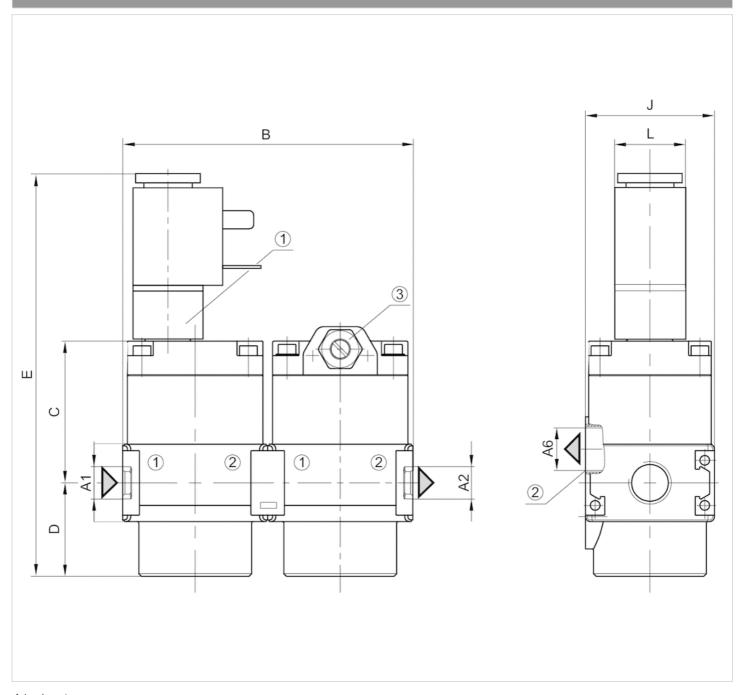
Material				
Housing	Die cast zinc			
Front plate	Acrylonitrile butadiene styrene			
Seals	Acrylonitrile butadiene styrene			
Threaded bushing	Die cast zinc			





Dimensions

Dimensions



A1 = input

A2 = output

A6 = output

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

Dimensions in mm

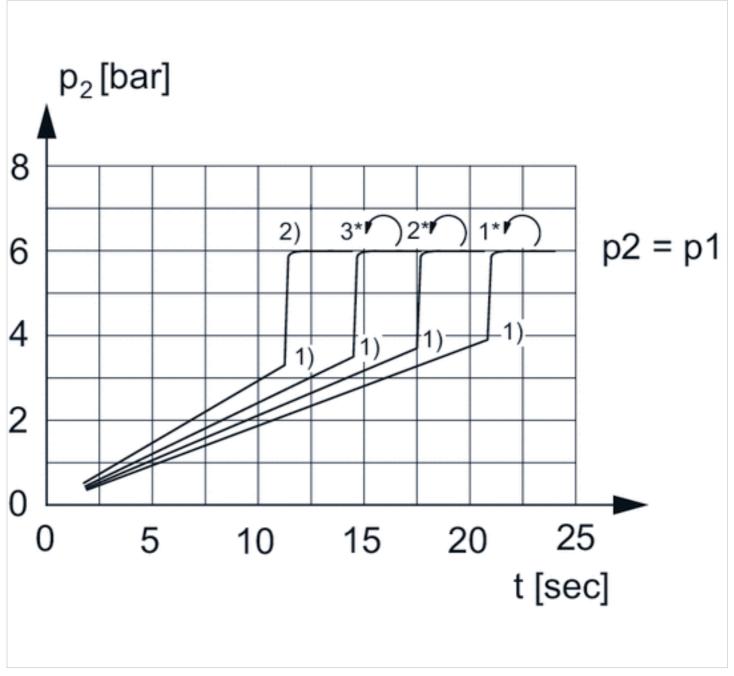
A1	A2	A6	В	С	D	Е	J	L	L1	W
G 1/4	G 1/4	G 1/4	90	44.5	29	124.5	40	22	22	89.5





Diagrams

Secondary pressure while filling



p1 = working pressure

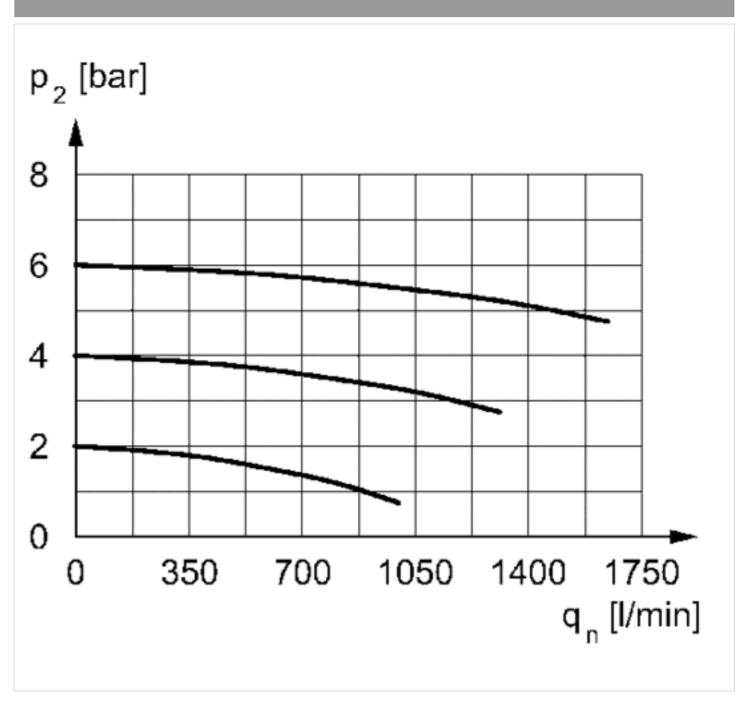
p2 = secondary pressure

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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