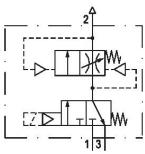
# Filling unit, electrically operated, Series NL1-SSU

0821300796

#### General series information Series NL1

■ The AVENTICS Series NL maintenance units are suitable for all areas: as individual components or as assembled maintenance units, for centralized or decentralized compressed air preparation, in compact or powerful versions, for use in high or low temperatures. This line offers a complete, customizable compressed air preparation technology. It includes an option to combine every component in the Series to achieve the desired function, making it possible to adjust the components precisely to the application requirements.





#### Technical data

Industry Industrial
Activation Electrically
Nominal flow Qn 2000 I/min
Compressed air connection G 1/4

Working pressure min.

Working pressure max

10 bar

DC operating voltage

24 V

Sealing principle Soft Seal
Pilot Internal

Connection type Pipe connection



Parts 3/2-directional valve

Filling valve

Can be assembled into blocks

Can be assembled into blocks

Type Poppet valve

Min. ambient temperature -10 °C Max. ambient temperature 60 °C

Medium Compressed air

Neutral gases

Max. particle size 5 µm G 1/4 Compressed air connection, exhaust Nominal flow Qn 1 to 2 2000 I/min Nominal flow Qn 2 to 3 800 I/min Power consumption DC 4.8 W 100 % Duty cycle Connector standard ISO 6952 Protection class with connection **IP65** 

Reverse polarity protection Protected against polarity reversal

Electrical connection type 2 Plug

Electrical connection 2, thread size ISO 6952, form B

Weight 0.88 kg

#### Material

Housing material Die cast zinc

Seal material Acrylonitrile butadiene styrene

Material threaded bushing Die cast zinc

Material front plate Acrylonitrile butadiene styrene

Part No. 0821300796

#### Technical information

The pressure dew point must be at least 15  $^{\circ}$ C under ambient and medium temperature and may not exceed 3  $^{\circ}$ C .

Nominal flow Qn with secondary pressure p2 = 6 bar at  $\Delta p$  = 1 bar

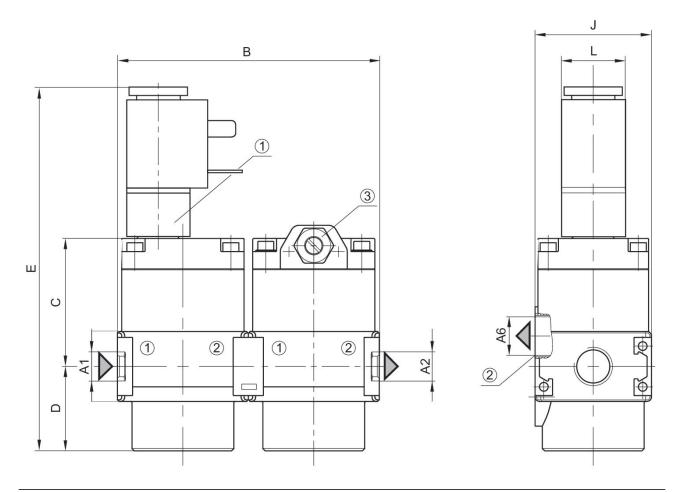
The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

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.



### **Dimensions**



A1 = input A2 = output A6 = output

### Dimensions in mm

Part No.	A1	A2	A6	В	С	D	Е	J	L
0821300796	G 1/4	G 1/4	G 1/4	90	44.5	29	124.5	40	22
0821300797	G 1/4	G 1/4	G 1/4	90	44.5	29	124.5	40	22
0821300798	G 1/4	G 1/4	G 1/4	90	44.5	29	124.5	40	22
0821300799	G 1/4	G 1/4	G 1/4	90	44.5	29	124.5	40	22

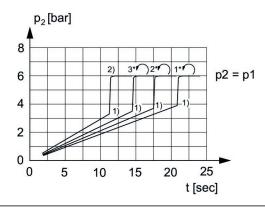
Part No.	L1	W
0821300796	22	89.5
0821300797	22	89.5
0821300798	22	89.5
0821300799	22	89.5



<sup>1)</sup> electrically operated

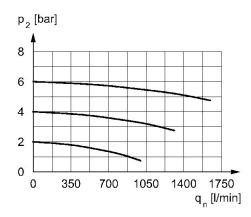
exhaust
 Adjustment screw for filling time

# 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 = 0,05 - 7 bar



p2 = secondary pressure qn = nominal flow

