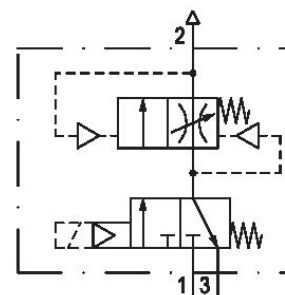


Filling unit, electrically operated, Series NL2-SSU

0821300941

General series information Series NL2

- 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 Q _n	900 l/min
Compressed air connection	G 1/4
Working pressure min.	3 bar
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
Compressed air connection, exhaust	G 1/4
Nominal flow Qn 1 to 2	900 l/min
Nominal flow Qn 2 to 3	450 l/min
Power consumption DC	4.8 W
Duty cycle	100 %
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	0.63 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.	0821300941

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

Nominal flow Qn with secondary pressure $p_2 = 6$ bar at $\Delta p = 0,1$ bar

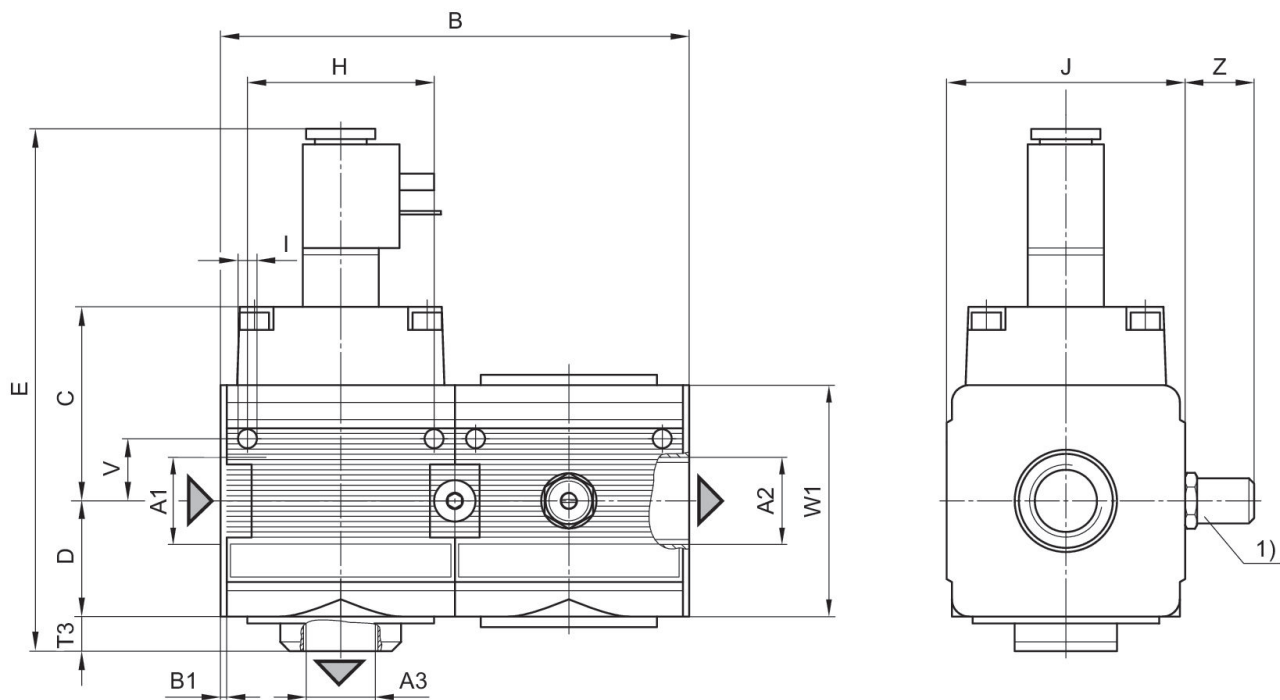
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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.

adjustable filling

Dimensions



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

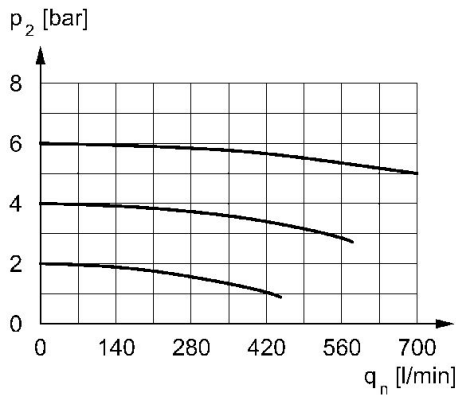
Dimensions in mm

Part No.	A1	A2	A3	B	B1	C	D	E	H
0821300941	G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36
0821300943	G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36
0821300944	G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36
0821300946	G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36

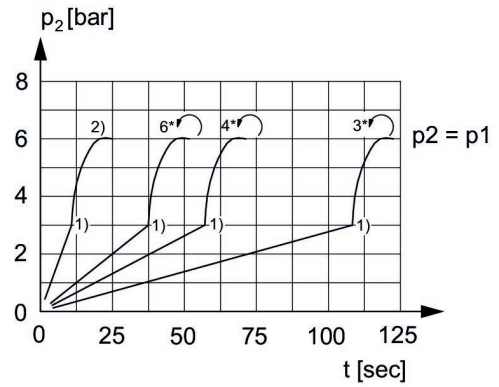
Part No.	I	J	K	M	O	R	T	T3	V
0821300941	4.4	47	43.5	3	38	5.4	8	10	12.3
0821300943	4.4	47	43.5	3	38	5.4	8	10	12.3
0821300944	4.4	47	43.5	3	38	5.4	8	10	12.3
0821300946	4.4	47	43.5	3	38	5.4	8	10	12.3

Part No.	Z	U	V	W1
0821300941	-	27.5	12.3	52
0821300943	-	27.5	12.3	52
0821300944	-	27.5	12.3	52
0821300946	20	27.5	12.3	52

Flow rate characteristic, $p_2 = 0,05 - 7$ bar Secondary pressure while filling
 bar



p_2 = Secondary pressure
 q_n = Nominal flow



p_1 = Working pressure
 p_2 = 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