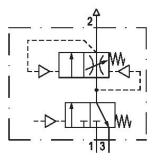
Filling unit, pneumatically operated, Series NL4-SSU

0821300949

General series information Series NL4

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 Activation Parts

Nominal flow Qn Compressed air connection Working pressure min. Working pressure max Connection type Sealing principle Industrial Pneumatically 3/2-directional valve Filling valve 2500 l/min G 1/2 0 bar 16 bar Pipe connection Soft Seal



Туре	Poppet valve				
Pilot	Internal				
Can be assembled into blocks	Can be assembled into blocks				
Control pressure min.	2.5 bar				
Control pressure max.	16 bar				
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 1/2				
Nominal flow Qn 1 to 2	2500 l/min				
Nominal flow Qn 2 to 3	1600 l/min				
Weight	1.69 kg				

Material

Housing material	Die cast zinc			
Seal material	rial Acrylonitrile butadiene rubber			
Material, front cover	Acrylonitrile butadiene styrene			
Material threaded bushing	Die cast zinc			
Part No.	0821300949			

Technical information

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

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

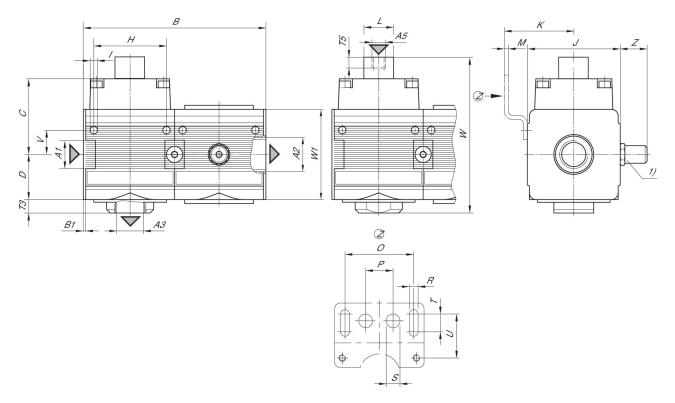
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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. adjustable filling



Dimensions



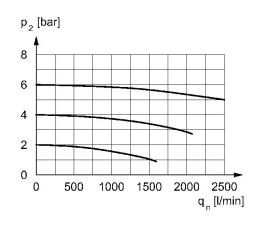
A1 = input A2 = output A3 = ventilation port A3 = ventilation port A5 = Control pressure connection 1) Adjustment screw for filling time

Dimensions in mm

Part No.	A1	A2	A3	A5	В	B1	С	D	н
0821300954	G 1/2	G 1/2	G 1/2	G 1/8	135.6	1.8	56.5	33.5	54
0821300949	G 1/2	G 1/2	G 1/2	G 1/8	135.6	1.8	56.5	33.5	54
Part No.			К		М	0		R	S
0821300954	5.5	69	54.5	22	3	50	20	6.4	20
0821300949	5.5	69	54.5	22	3	50	20	6.4	20
Part No.		Т3	T5	U		W	W1	Z	
0821300954	10	10	13	27.5	12.3	96	52	-	
0821300949	10	10	13	27.5	12.3	96	52	20	

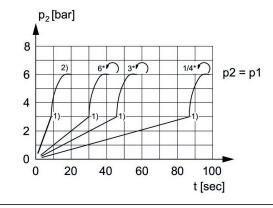


Flow rate characteristic, p2 = 0.05 - 7bar



p2 = Secondary pressure qn = Nominal flow

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

