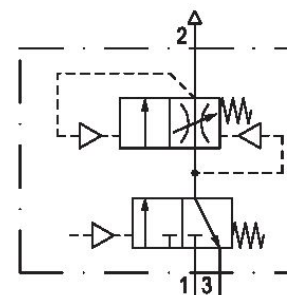


# Filling unit, pneumatically operated, Series NL6-SSU

0821300993

## General series information Series NL6

- 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  $Q_n$   
Compressed air connection  
Working pressure min.  
Working pressure max  
Connection type  
Sealing principle

Industrial  
Pneumatically  
3/2-directional valve  
Filling valve  
8750 l/min  
G 1  
0 bar  
16 bar  
Pipe connection  
Soft Seal

Type	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	8 µm
Compressed air connection, exhaust	G 1/2
Nominal flow Qn 1 to 2	8750 l/min
Nominal flow Qn 2 to 3	3900 l/min
Weight	3.08 kg

## Material

Housing material	Die-cast aluminum
Seal material	Acrylonitrile butadiene rubber
Material, front cover	Acrylonitrile butadiene styrene
Part No.	0821300993

## Technical information

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

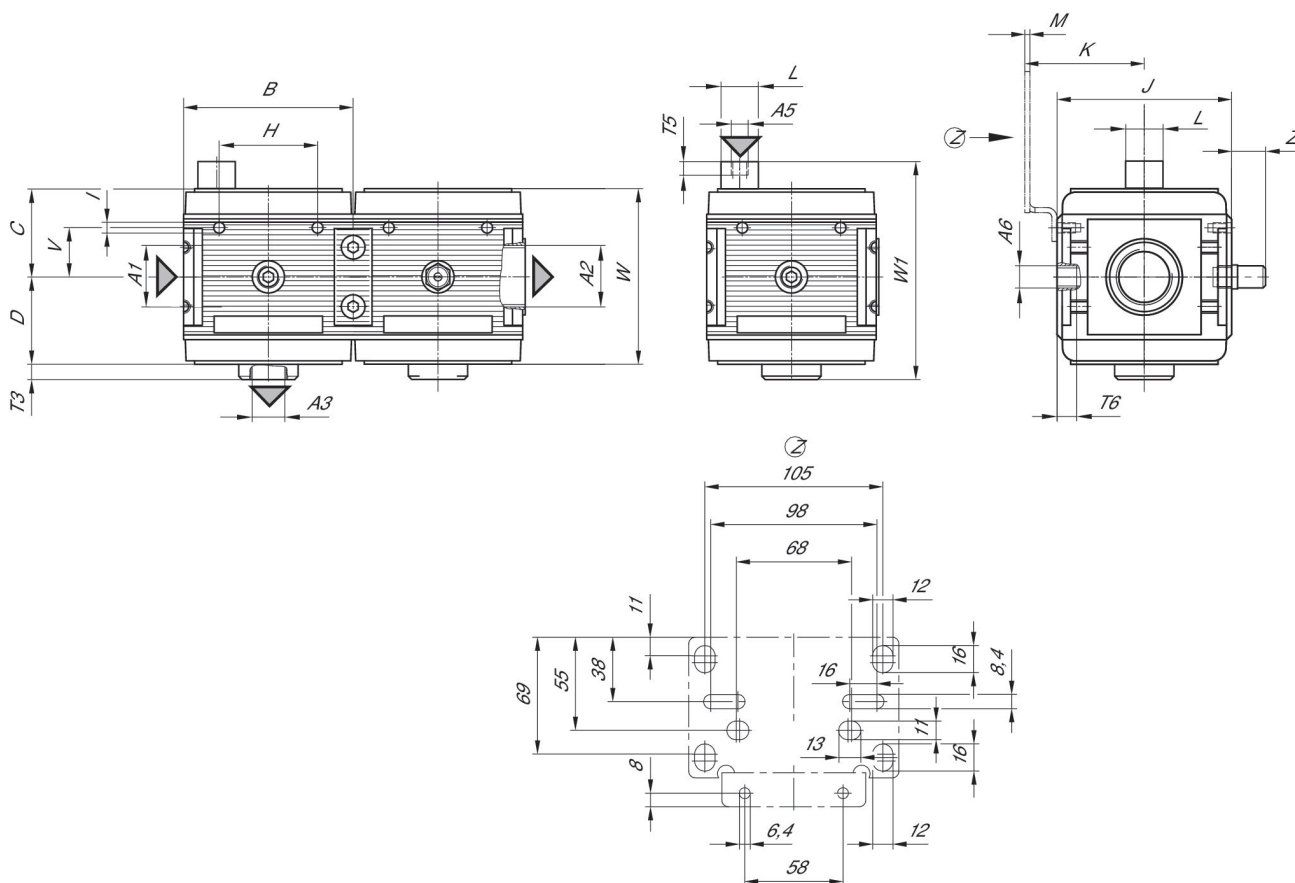
Nominal flow Qn with secondary pressure  $p_2 = 6$  bar at  $\Delta p = 1$  bar

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.

## Dimensions



A1 = input A2 = output  
 A3 = ventilation port  
 A5 = Control pressure connection

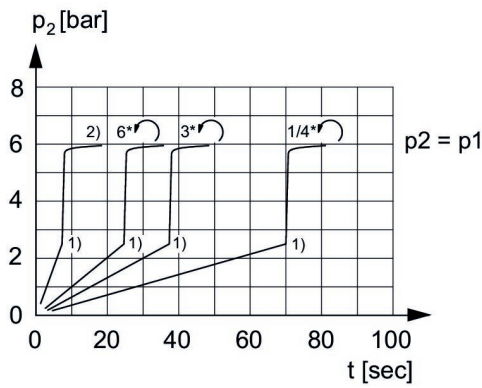
## Dimensions in mm

Part No.	A1	A2	A3	A5	A6	B	C	D	F
0821300992	G 3/4	G 3/4	G 1/2	G 1/8	G 1/4	100	52	51	9.5
0821300993	G 1	G 1	G 1/2	G 1/8	G 1/4	100	52	51	9.5

Part No.	H	I	J	K	L	M	T5	T6	V
0821300992	58	M6	103	70.5	22	3	18	7	29
0821300993	58	M6	103	70.5	22	3	18	7	29

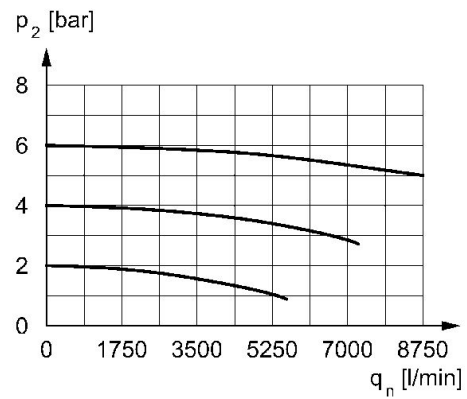
Part No.	W	W1	Z
0821300992	103.5	128.5	20
0821300993	103.5	128.5	20

### 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  $\approx 0.5 \times p1$  (50%)  
 2) Throttle fully opened  
 \* Adjustment screw rotations

### Flow rate characteristic, p2 = 0,05 - 7 bar



p2 = Secondary pressure  
 qn = Nominal flow