0821302525

#### **AVENTICS Series NL4 Air Preparation Units**

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

Min. ambient temperature

Regulator type Pressure supply

Industry Industrial

**Function** Precision pressure regulator

**Parts** Precision pressure regulator with continuous

pressure supply

Pressure gauge without pressure gauge

Mounting orientation

Regulator type Diaphragm-type pressure regulator

Port G 1/2

5600 I/min

Nominal flow Qn Min. regulation range

0.2 bar 6 bar

Max. regulation range 0.5 bar Min. working pressure

16 bar

Max. working pressure

-10 °C

60 °C Max. ambient temperature

Mechanical

Activation Regulator function

with relieving air exhaust

Can be assembled into blocks

double

Lock type not lockable



2024-04-24

0821302525

with continuous pressure supply with continuous pressure supply

Max. internal air consumption  $q_v$  2.6 l/min Max. pressure gauge  $\varnothing$  in blocked state 40 mm

Medium Compressed air

Neutral gases

Recommended pre-filtering 5  $\mu m$  Weight 0.867 kg

Material

Housing material Die cast zinc

Material front plate Acrylonitrile butadiene styrene Seal material Acrylonitrile butadiene rubber

Part No. 0821302525

#### Technical information

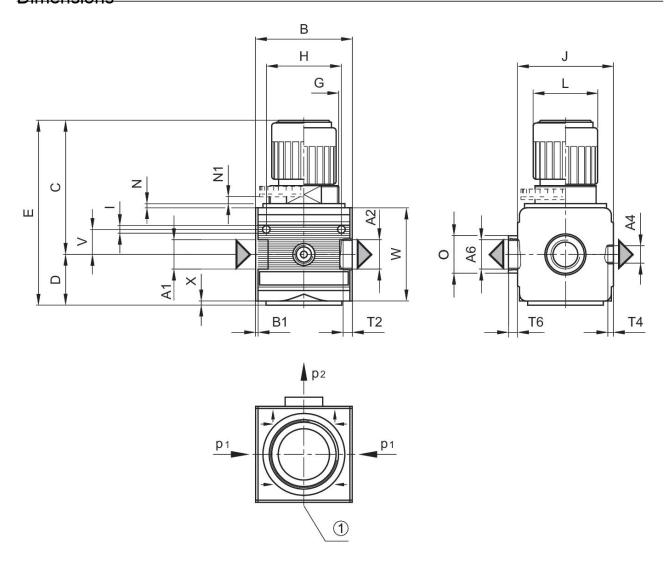
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

Order pressure gauge separately

0821302525 Dimensions



A1 = input A2 = output

A4 = output

A6 = output

1) Pressure gauge connection
p1 = Working pressure
p2 = Secondary pressure

#### Dimensions in mm

Part No.	A1	A2	A4	A6		B1	С	D	E
0821302524	G 1/2	G 1/2	G 1/4	G 1/2	69.6	1.8	97	35.5	132.5
0821302525	G 1/2	G 1/2	G 1/4	G 1/2	69.6	1.8	97	35.5	132.5
0821302526	G 1/2	G 1/2	G 1/4	G 1/2	69.6	1.8	97	35.5	132.5

Part No.	G	Н	ı	J	L	N	N1	0	T2
0821302524	M50x1,5	54	5.5	69	46	3	5.5	27	13
0821302525	M50x1,5	54	5.5	69	46	3	5.5	27	13

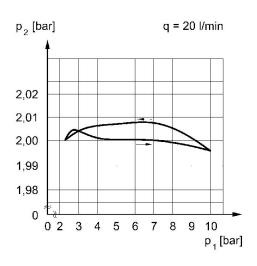
2024-04-24

0821302525

Part No.	G	Н	I	J	L	N	N1	0	T2
0821302526	M50x1,5	54	5.5	69	46	3	5.5	27	13

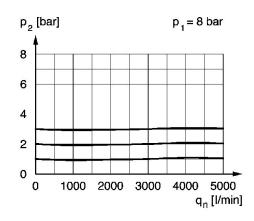
Part No.	T4	T6	V	W	Х
0821302524	7	6	18	67	2
0821302525	7	6	18	67	2
0821302526	7	6	18	67	2

#### Pressure characteristics curve



p1 = Working pressure

p2 = Secondary pressure q = flow rate Flow rate characteristic, p2 = 0,05 - 7 bar



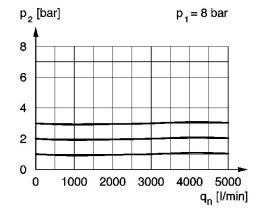
p2 = 0,1 - 3 bar

p1 = Working pressure

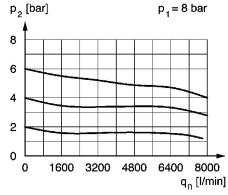
p2 = Secondary pressure

qn = Nominal flow

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



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



p2 = 0.2 - 6 bar

p1 = Working pressure

p2 = Secondary pressure

qn = Nominal flow

p2 = 0,5 - 10 bar

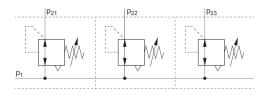
p1 = Working pressure

p2 = Secondary pressure

qn = Nominal flow

2024-04-24

0821302525 Application example



p1 = Working pressure