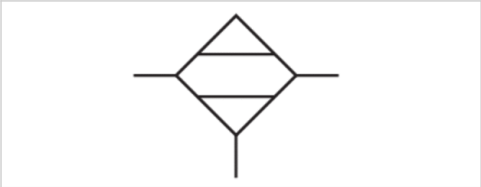
Diaphragm-type dryer, Series NL4-ADD

- G 1/2
- suitable for ATEX



Type	Diaphragm-type dryer
Parts	Diaphragm-type dryer
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	4 ... 12,5 bar
Ambient temperature min./max.	2 ... 60 °C
Medium temperature min./max.	2 ... 60 °C
Medium	Compressed air Neutral gases
Filter element	not exchangeable
Lowering pressure dew point	20 °C
Weight	See table below

Technical data

Part No.	Port	Flow Qn	Reservoir	Weight	
R412007606	G 1/2	500 l/min	Aluminum	4,43 kg	1)
R412007607	G 1/2	650 l/min	Aluminum	4,55 kg	2)
R412007608	G 1/2	950 l/min	Aluminum	4,65 kg	1)

1) Suitable for use in Ex zones 1, 2, 21, 22.

2) Suitable for use in Ex zones 1, 2, 21, 22., incl. distributor

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Notice: air may not contain condensate
purge air approx. 12% of nominal flow Qn
Suitable for use in Ex zones 1, 2, 21, 22.
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.

Recommended pre-filtering µm 5 / 0,01 µm

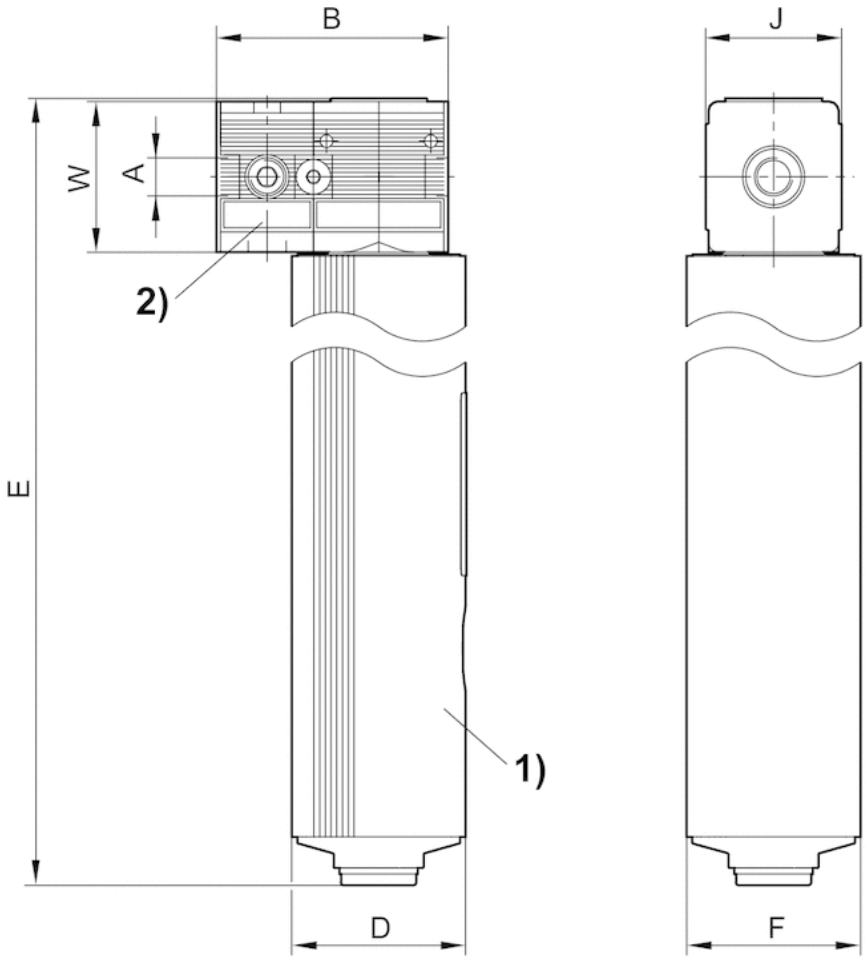
Technical information

Material	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene

Material	
Seal	Acrylonitrile butadiene rubber
Reservoir	Aluminum

Dimensions

Dimensions



1) Diaphragm-type dryer
2) Incl. second distributor

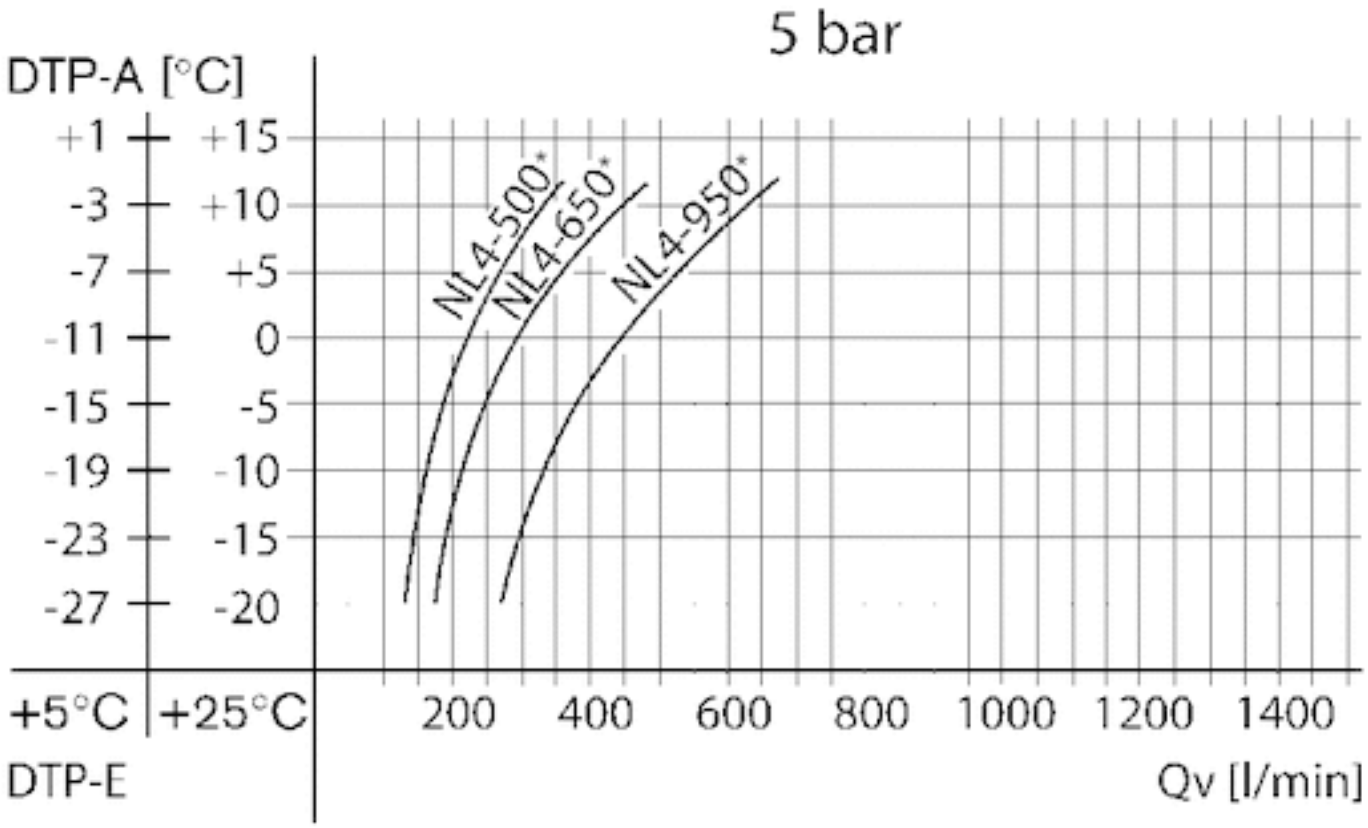
Dimensions in mm

A	1)	B	D	E	F	J
G 1/2	13	106	80	518	80	69
G 1/2	13	106	80	569	80	69
G 1/2	13	106	80	638	80	69

1) Min. usable thread depth

Diagrams

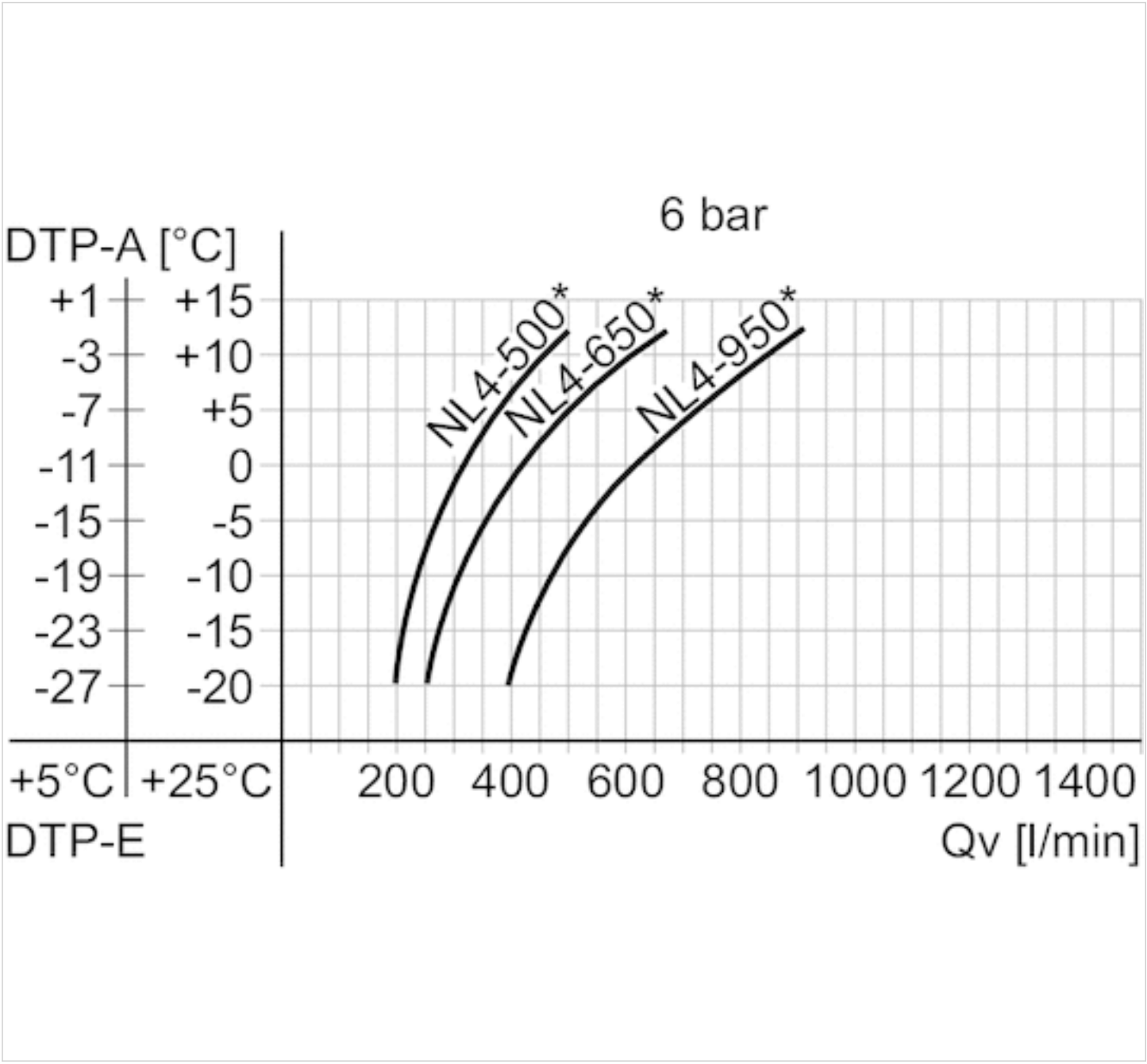
performance charts



DTP-E: pressure dew point input
DTP-A: pressure dew point output
Qv: input flow rate (nominal flow rate Qn + purge air)

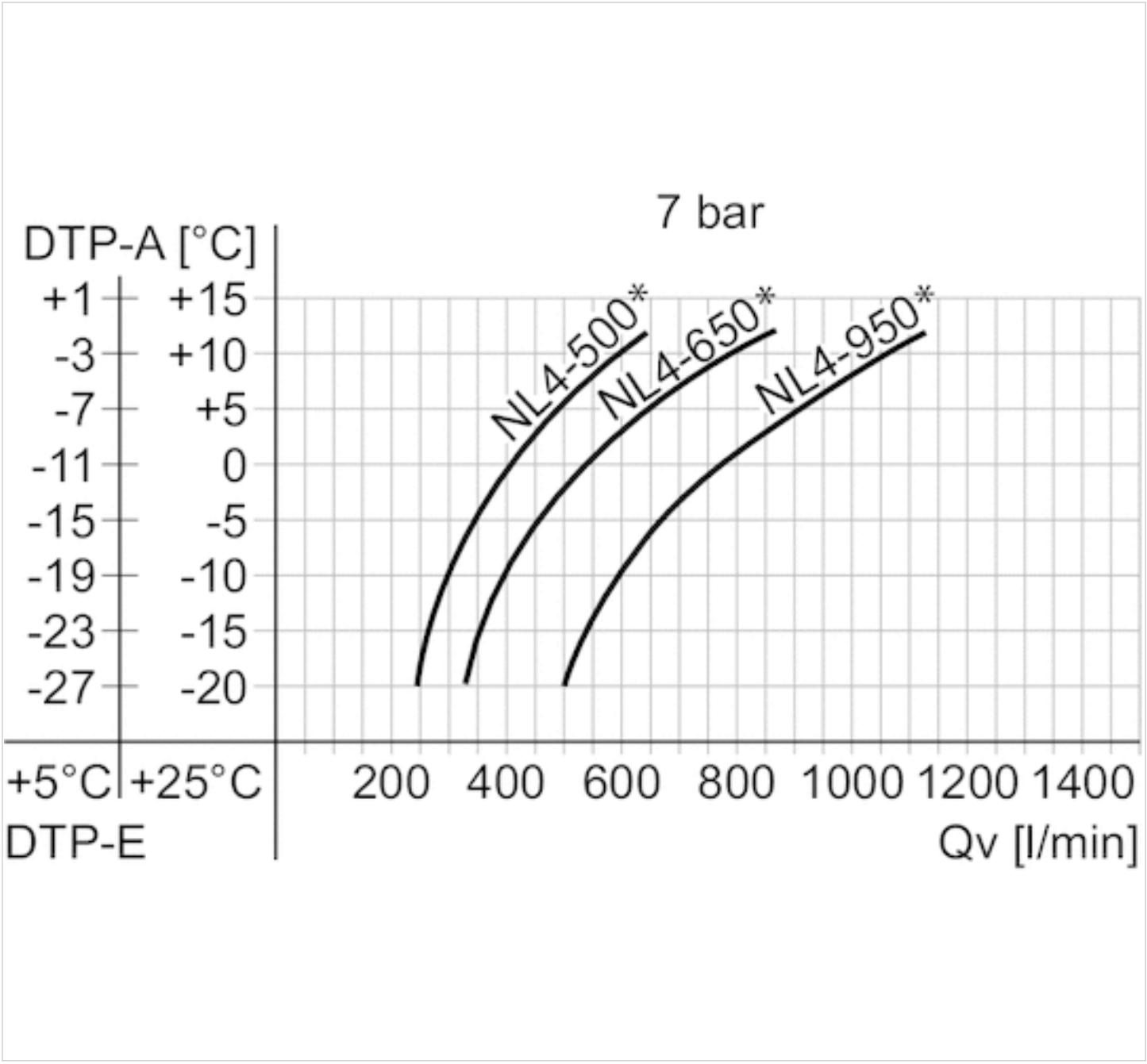
For different conditions, please contact the nearest AVENTICS sales office.
* Nominal flow Qn

performance charts



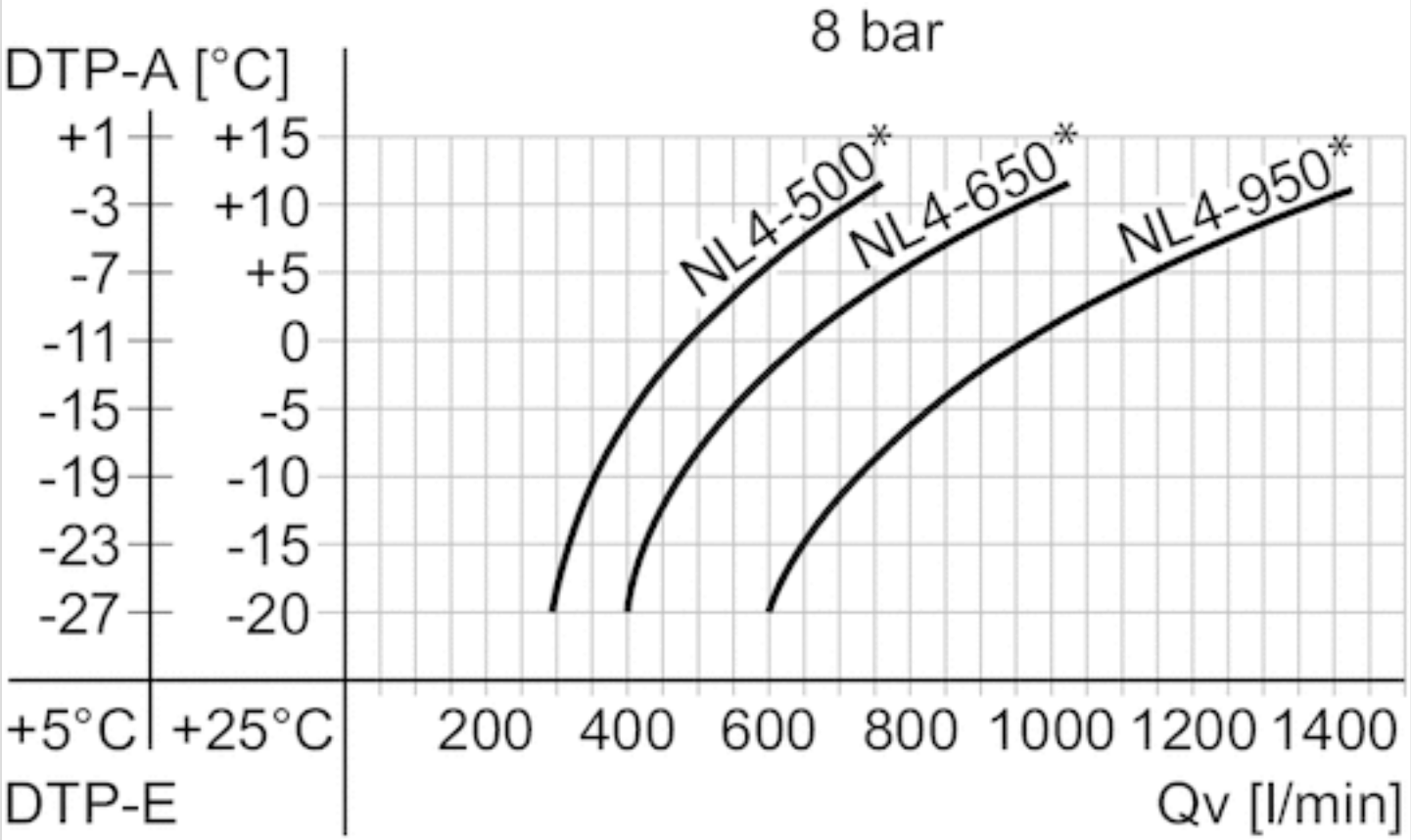
DTP-E: pressure dew point input
DTP-A: pressure dew point output
Qv: input flow rate (nominal flow rate Qn + purge air)
For different conditions, please contact the nearest AVENTICS sales office.
* Nominal flow Qn

performance charts



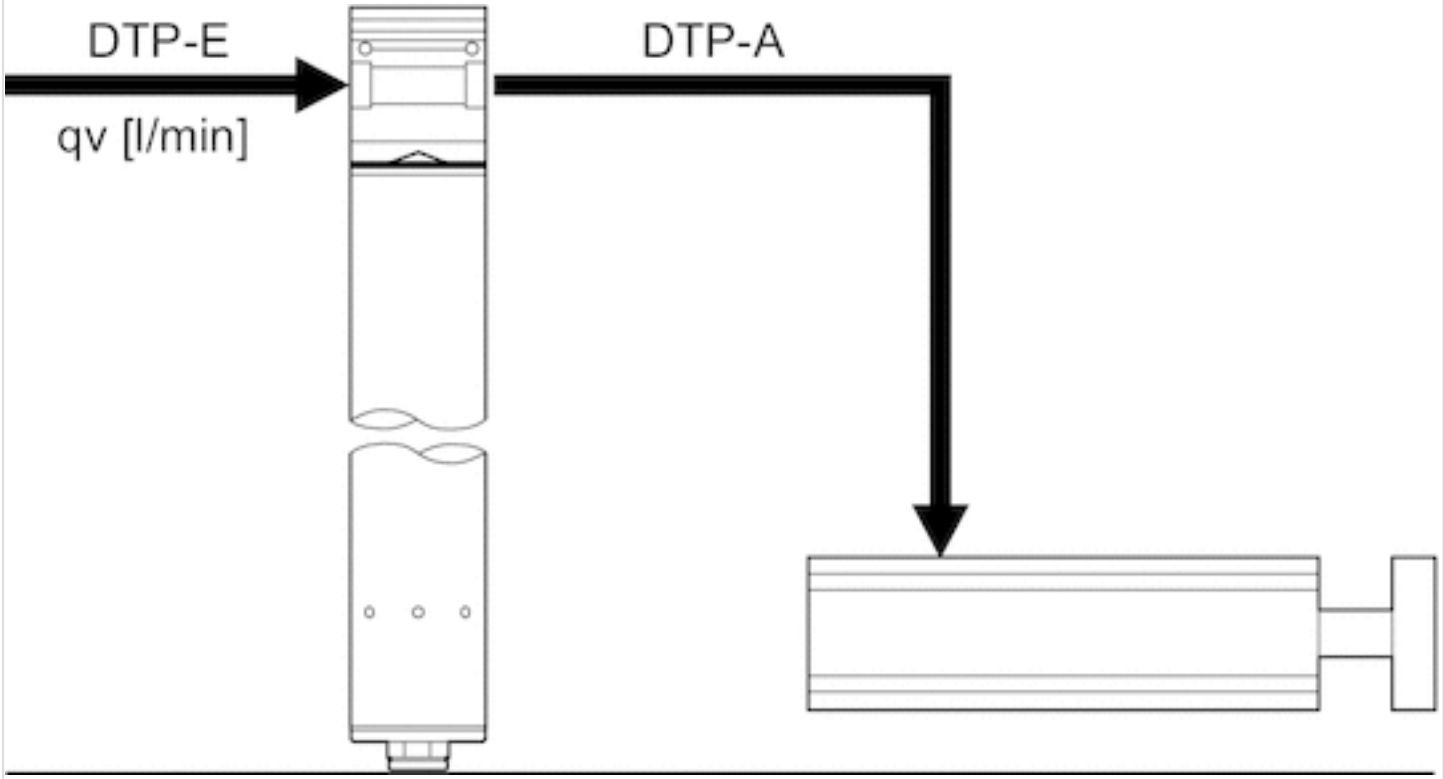
DTP-E: pressure dew point input
DTP-A: pressure dew point output
Qv: input flow rate (nominal flow rate Qn + purge air)
For different conditions, please contact the nearest AVENTICS sales office.
* Nominal flow Qn

performance charts

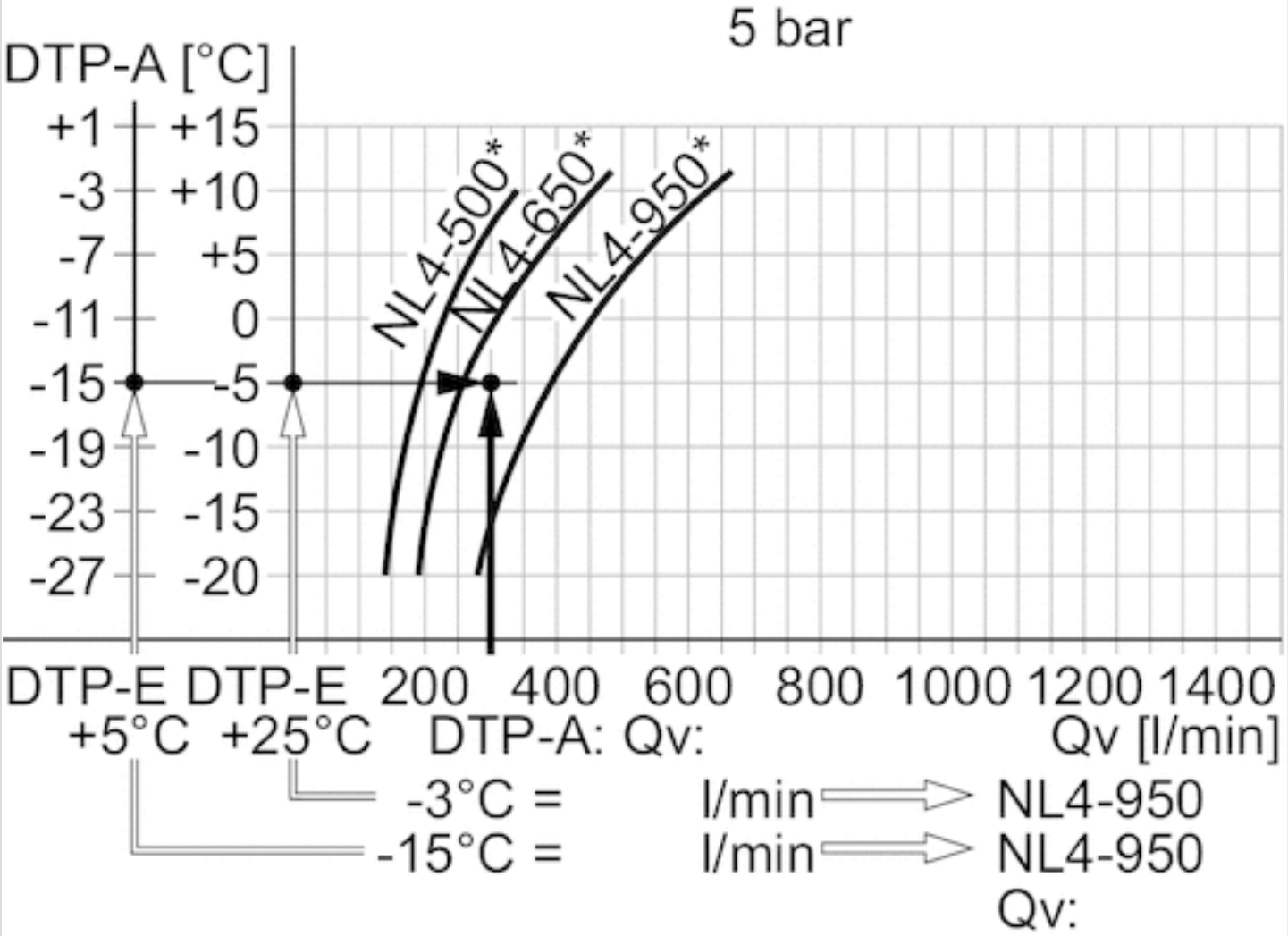


DTP-E: pressure dew point input
DTP-A: pressure dew point output
Qv: input flow rate (nominal flow rate Qn + purge air)
For different conditions, please contact the nearest AVENTICS sales office.
* Nominal flow Qn

Example
wanted:
suitable membrane dryer

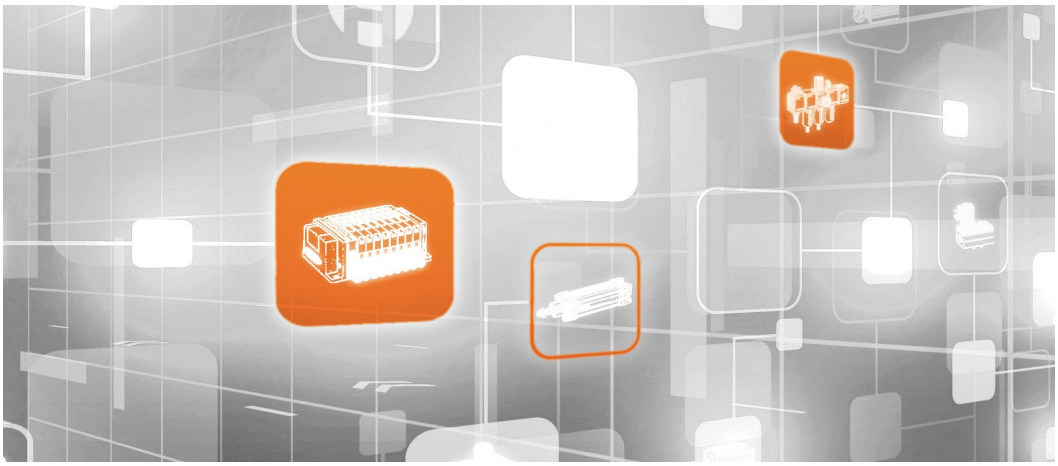


Example
given values: Qn = 350 l/min, DTP-E = +5 (+25) °C,
searched values: DTP-A = -15 (-3) °C a suitable membrane dryer



Result: membrane dryer series NL4-950
(with a Qn of 950 l/min), part no. R412007608
* Nominal flow Qn

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: Emerson.com/Aventics

Your local contact: Emerson.com/contactus

Emerson.com

Facebook.com/EmersonAutomationSolutions

LinkedIn.com/company/Emerson-Automation-Solutions

Twitter.com/EMR_Automation

2020-12

EMERSON.

CONSIDER IT SOLVED™