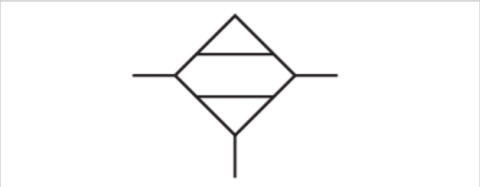


Diaphragm-type dryer, Series AS3-ADD

- 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 ... 50 °C
Medium temperature min./max.	2 ... 50 °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	Reservoir	Weight	Fig.	
		Qn				
R412007078	G 1/2	400 l/min	Aluminum	2,03 kg	Fig. 1	1)
R412007079	G 1/2	500 l/min	Aluminum	3,26 kg	Fig. 2	2)
R412007080	G 1/2	660 l/min	Aluminum	3,56 kg	Fig. 2	2)
R412007081	G 1/2	950 l/min	Aluminum	3,9 kg	Fig. 2	2)

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

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.

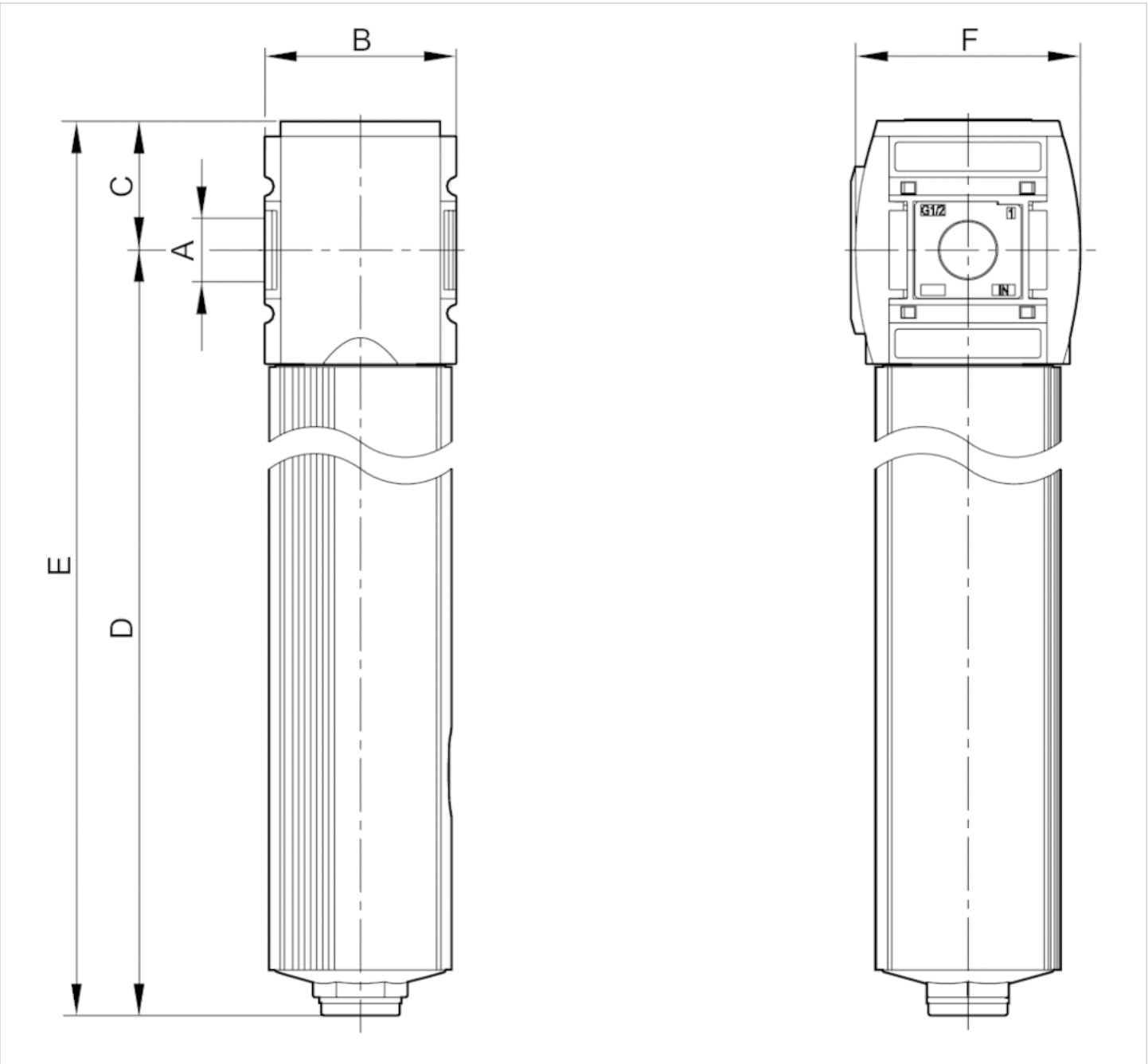
Recommended pre-filtering µm 5 / 0,01 µm

Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seal	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Aluminum

Dimensions

Dimensions, Fig. 1

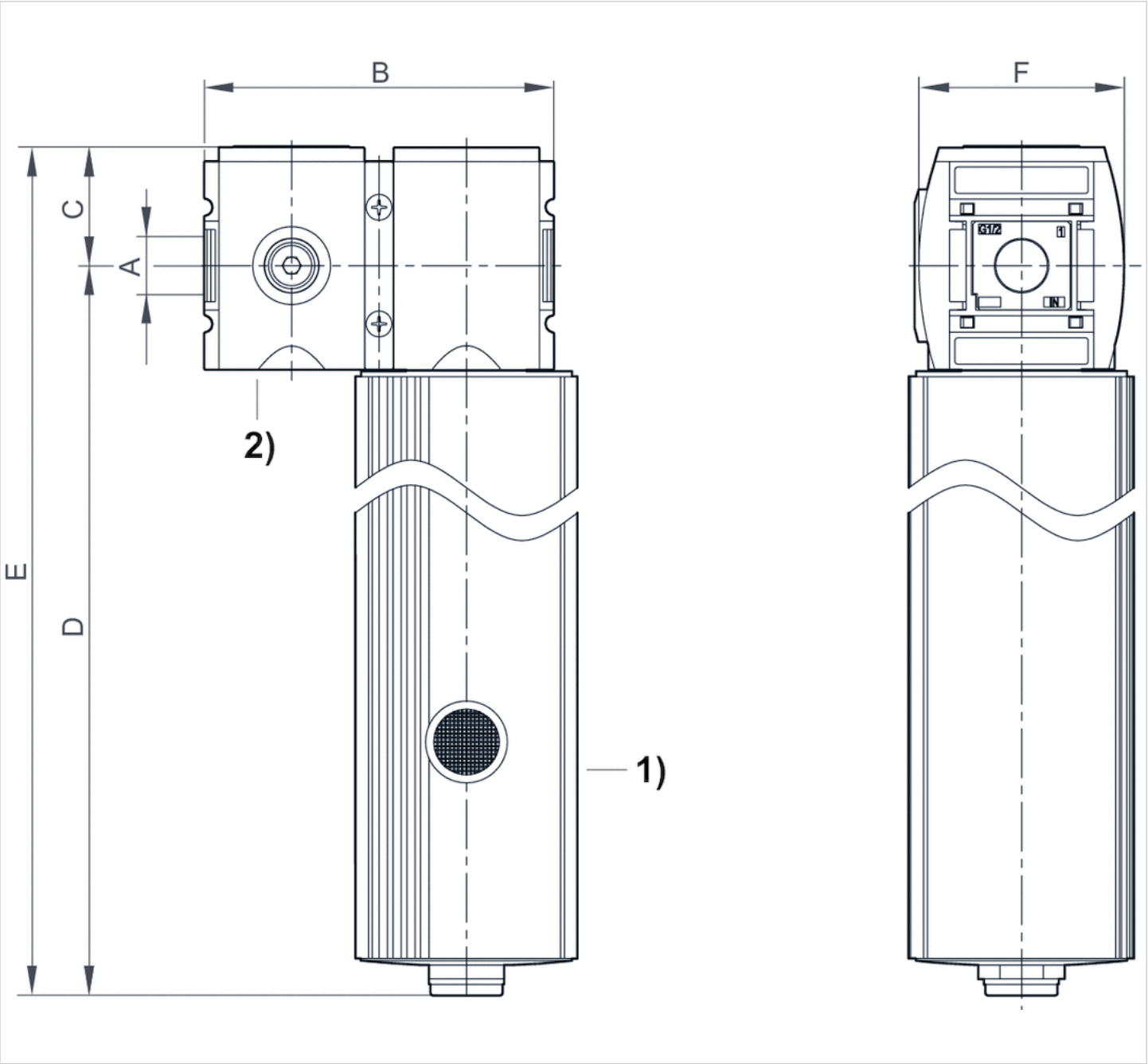


Dimensions in mm

A	B	C	D	E	F
G 1/2	63	43	478	521	74

Dimensions

Dimensions, Fig. 2



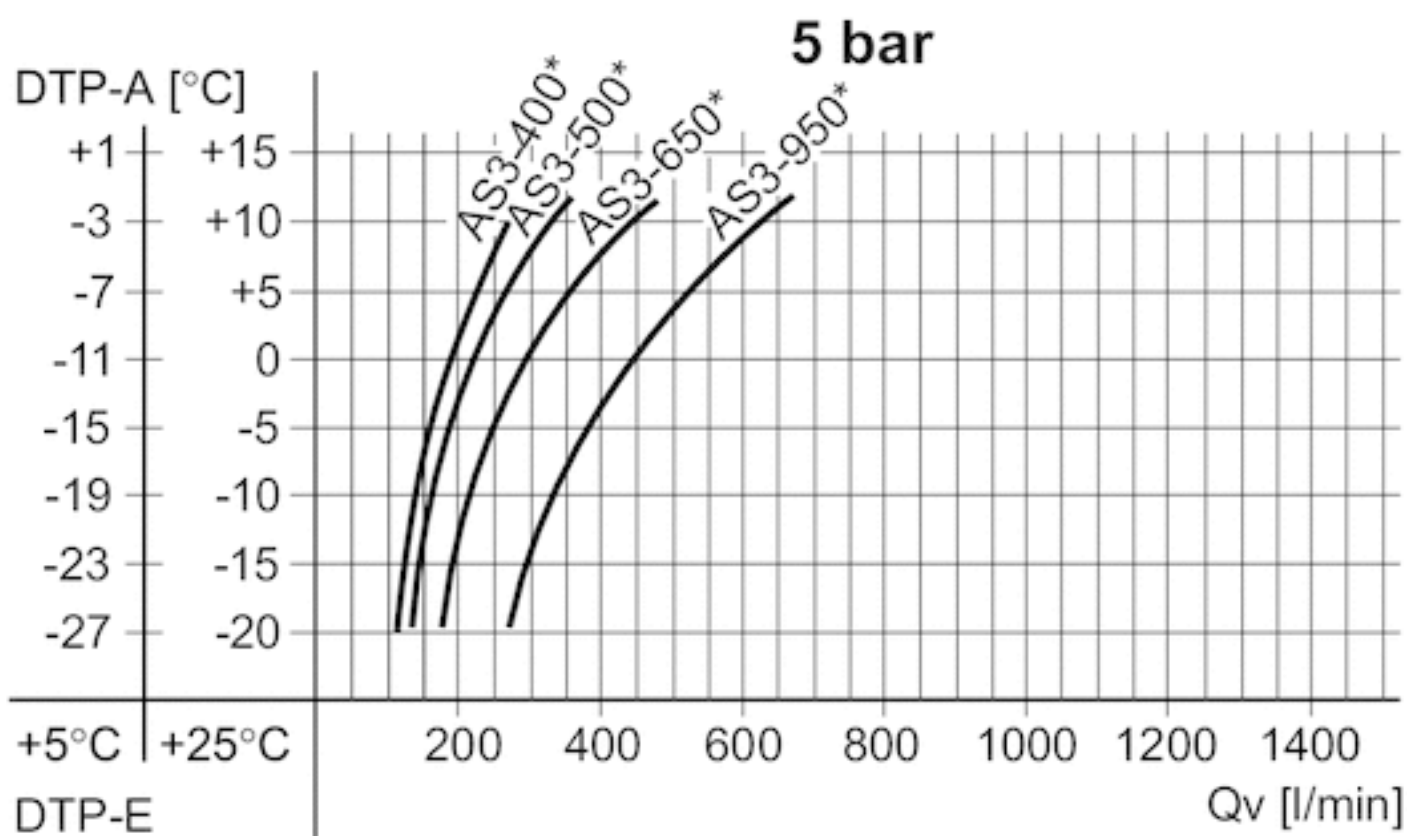
- 1) Diaphragm-type dryer
- 2) Incl. second distributor

Dimensions in mm

A	B	C	D	E	F
G 1/2	126	43	464	507	74
G 1/2	126	43	515	558	74
G 1/2	126	43	584	627	74

Diagrams

performance charts



DTP-E: pressure dew point input

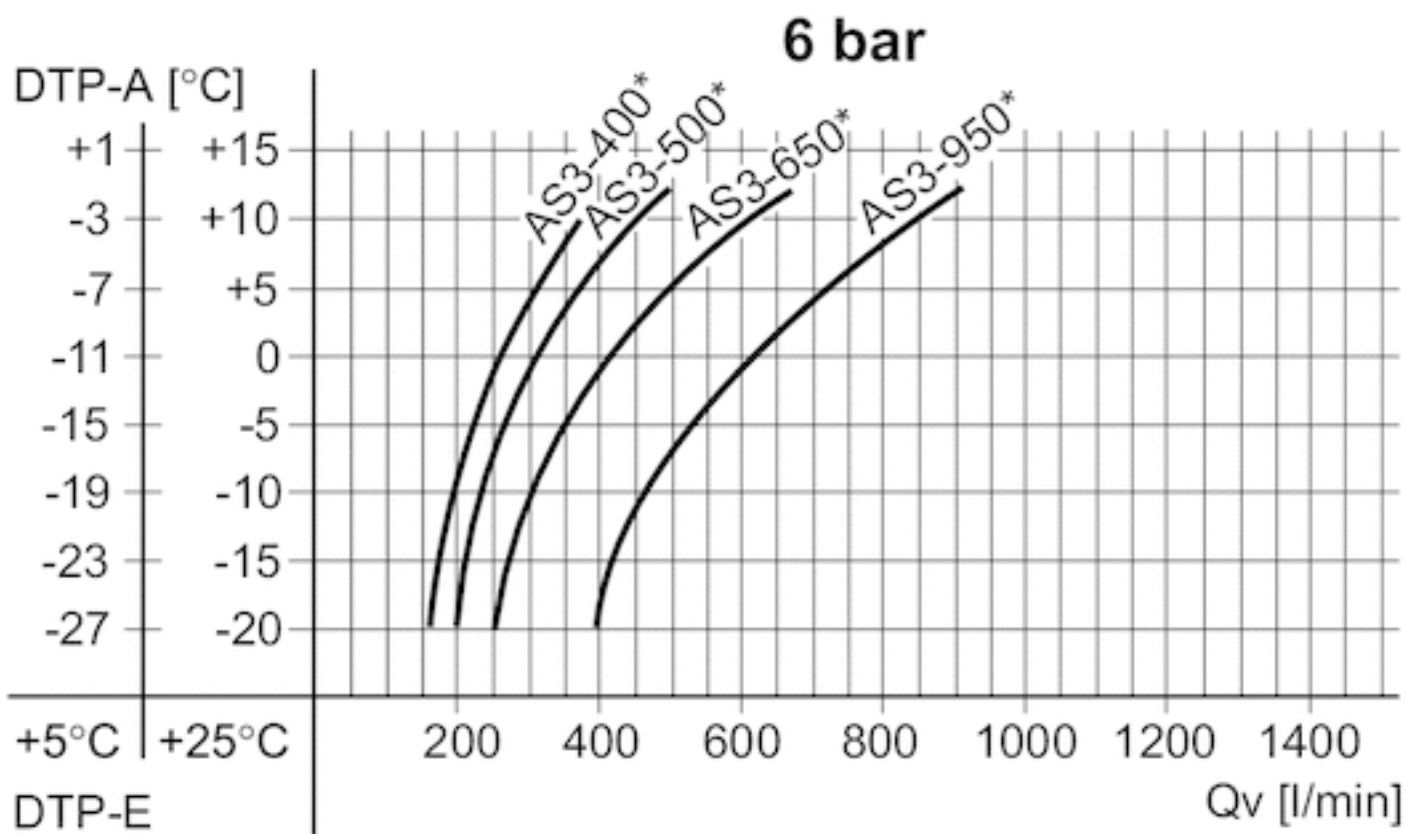
DTP-A: pressure dew point output

 Q_v : input flow rate (nominal flow rate Q_n + purge air)

For different conditions, please contact the nearest AVENTICS sales office.

* Nominal flow Q_n

performance charts



DTP-E: pressure dew point input

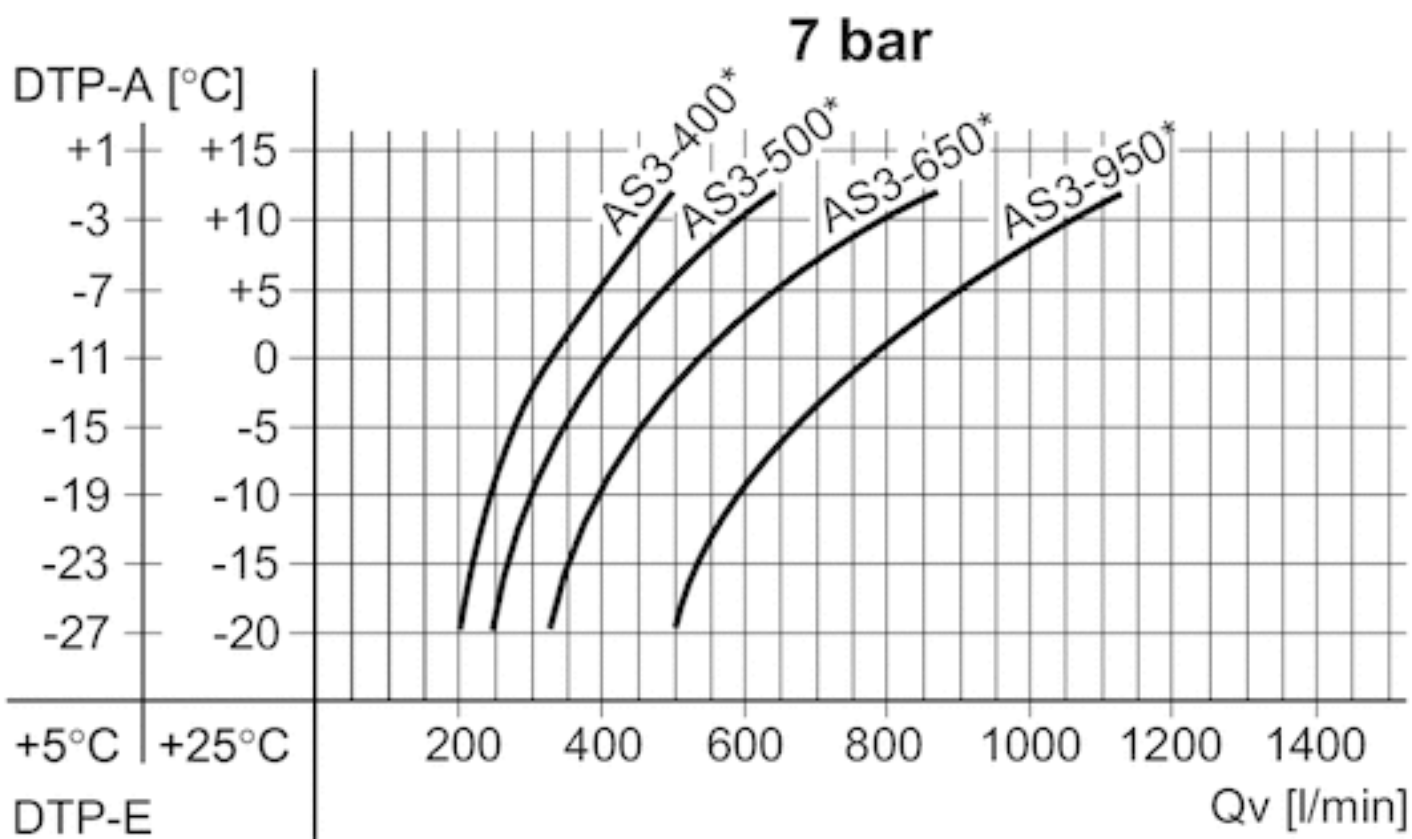
DTP-A: pressure dew point output

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

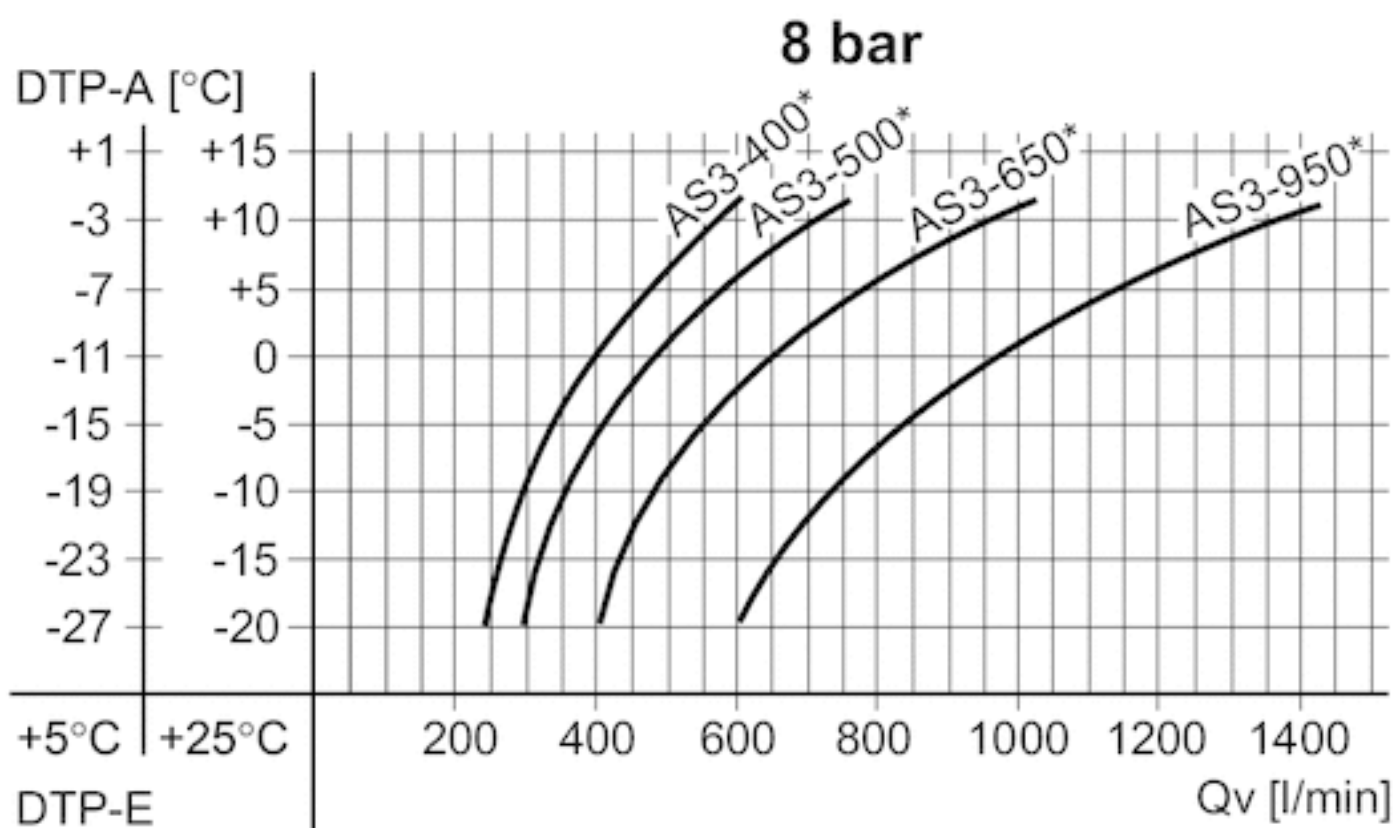
DTP-A: pressure dew point output

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

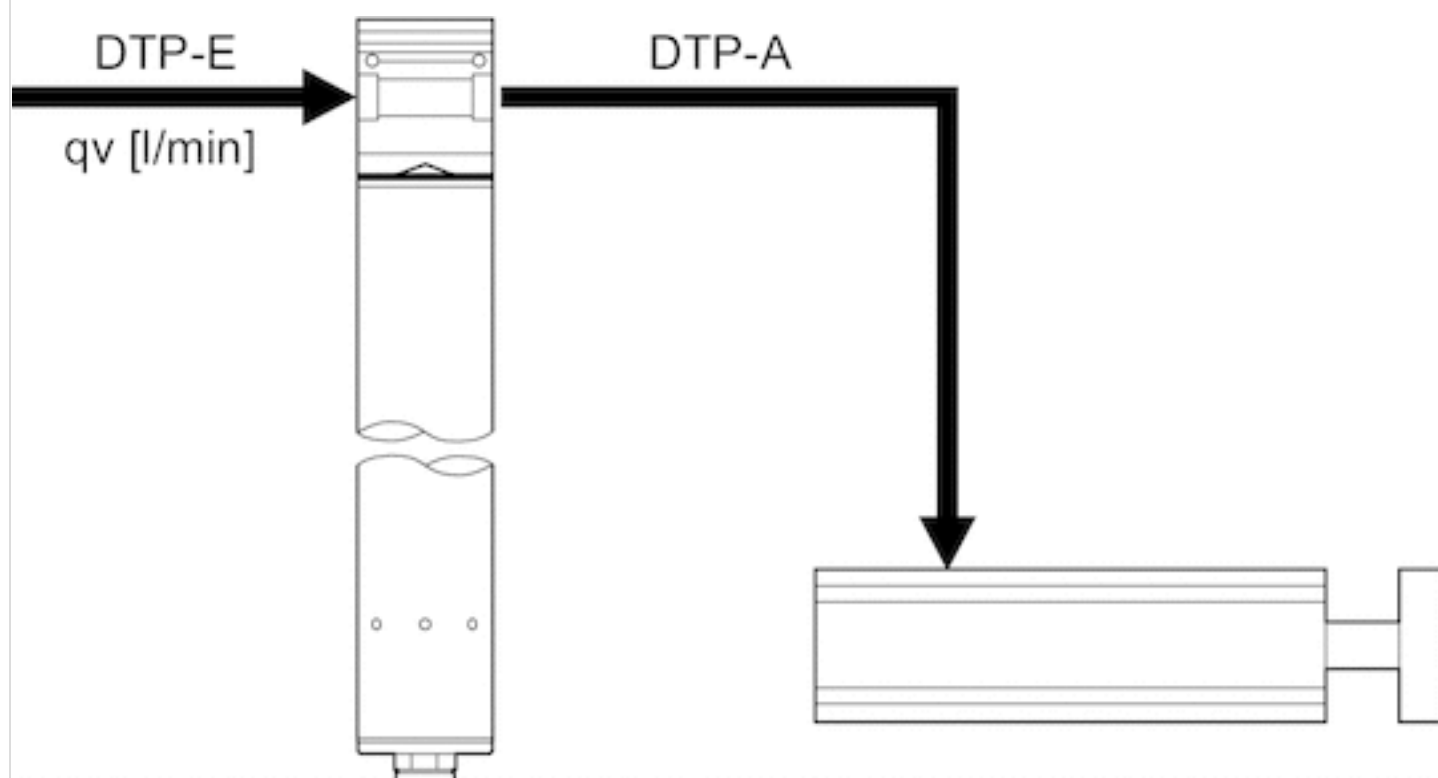
DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Q_n + purge air)

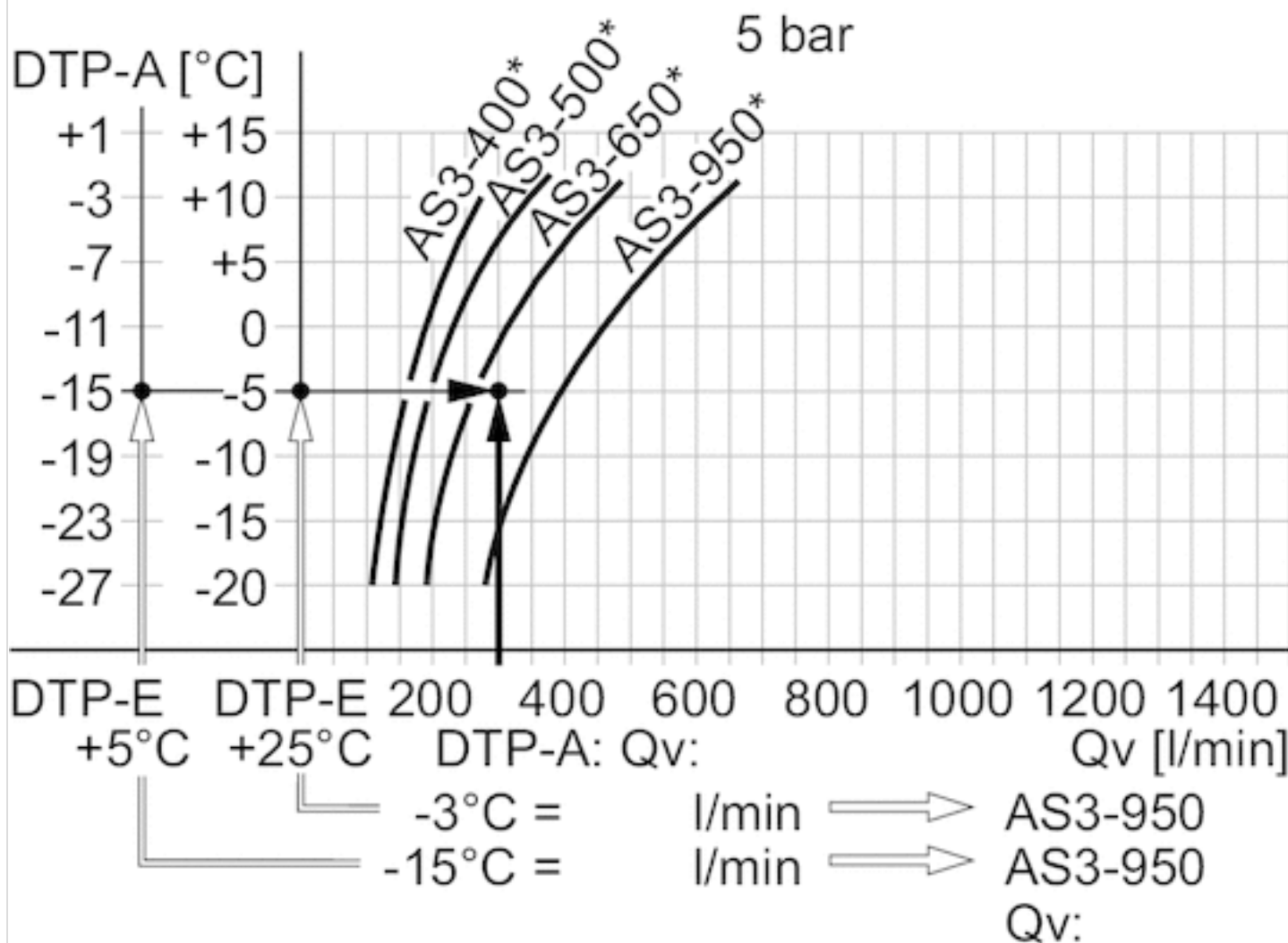
For different conditions, please contact the nearest AVENTICS sales office.

* Nominal flow Q_n

Example
wanted:
suitable membrane dryer



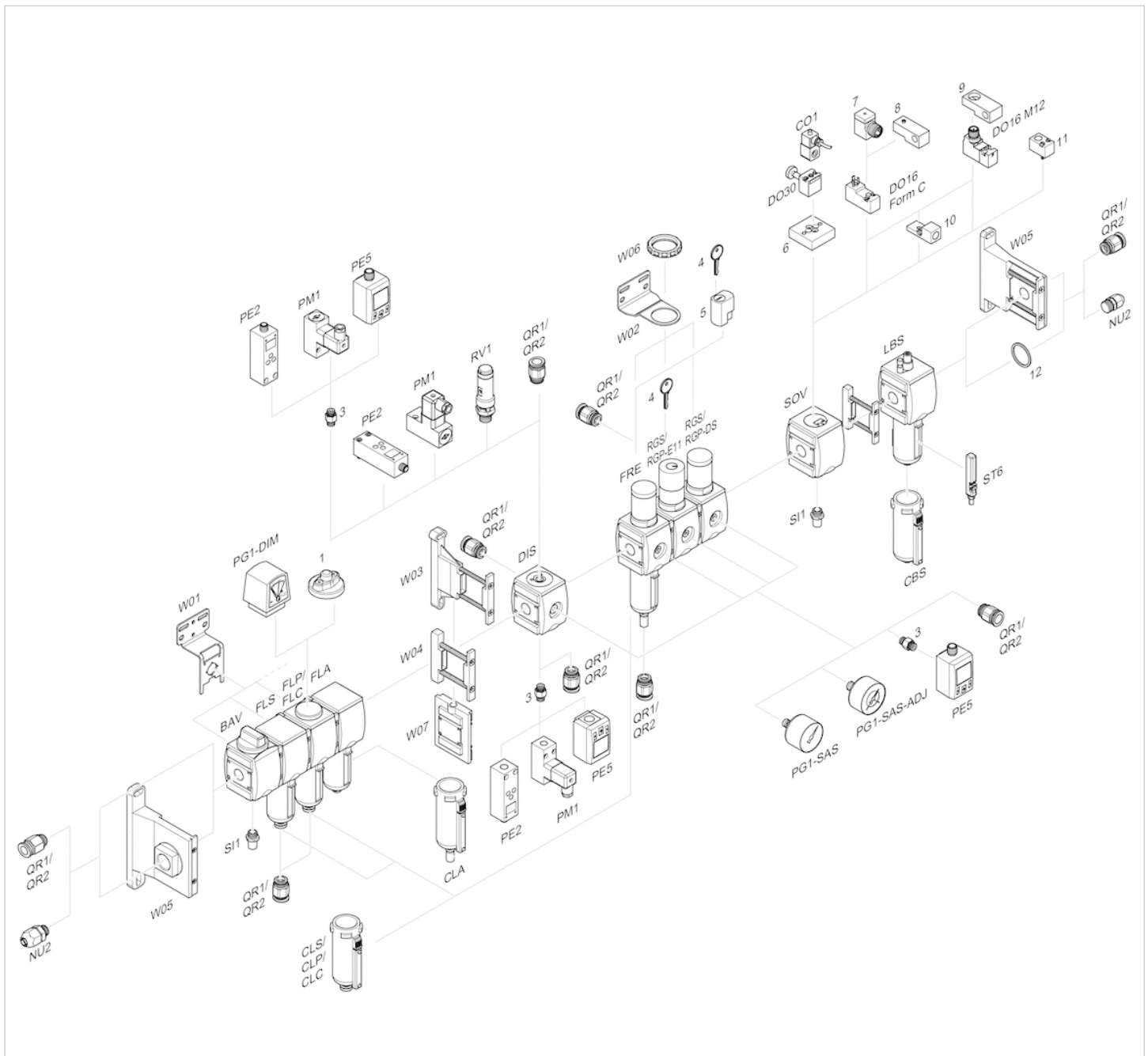
Example

given values: $Q_n = 350 \text{ l/min}$, DTP-E = $+5 (+25) ^\circ\text{C}$,searched values: DTP-A = $-15 (-3) ^\circ\text{C}$ a suitable membrane dryer

Result: membrane dryer series AS3-950
(with a Q_n of 950 l/min), part no. R412007081

* Nominal flow Q_n

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

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



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