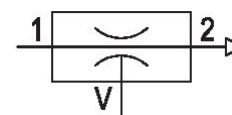


Serie ECD-IV

The AVENTICS Series ECD is an all-inclusive solution that combines vacuum generators, pilot valves, filters, silencers and pressure switches. Simplify installation and optimize your energy footprint by opting for the air economizer function, and increase your degree of status monitoring with the condition monitoring function.



Technical data

Industry

Industrial

Activation

Electrically

Note

IO-Link (function)

Switching logic

NC (break contact)

with silencer

with silencer

Nozzle Ø

1 mm

vacuum switch

electronic

Accessories

with non-return valve

Min. working pressure

2 bar

Max. working pressure

6 bar

Working pressure p.opt.

4 bar

Min. ambient temperature

0 °C

Max. ambient temperature

50 °C

Min. medium temperature

0 °C

Max. medium temperature

50 °C

Medium

Compressed air

Min. oil content of compressed air

0 mg/m³

Max. oil content of compressed air

1 mg/m³

Max. particle size

5 µm

Max. suction capacity	35.4 l/min
Air consumption at p.opt.	46.2 l/min
Max. vacuum level at p.opt	81.5 %
Sound pressure level intake effect	63 dB
Sound pressure level intake effect	76 dB
Protection against overpressure (max.) release valve	5 bar release valve
Protection class according to EN 60529:2000, without electrical connector	IP65
Duty cycle according to DIN VDE 0580 standard	100 %
Operational voltage DC	24 V
Hysteresis	adjustable
Repeatability (% of full scale value)	± 1 %
Voltage tolerance DC	-20 % / +10 %
Switch output current	180 mA
Power consumption solenoid valve	1.3 W
Weight	0.195 kg
Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Nozzle material	Brass
Silencer material	Polyethylene
Part No.	R412010614

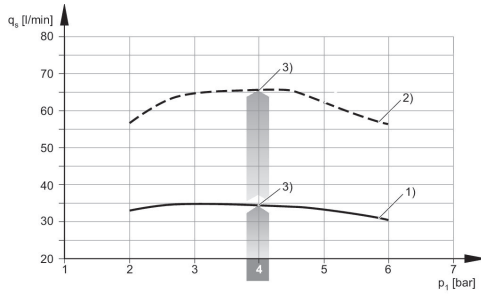
Technical information

Note: All data refers to an ambient pressure of $[[1,013]]$ bar] and an ambient temperature of $[[20]]^{\circ}\text{C}$.
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

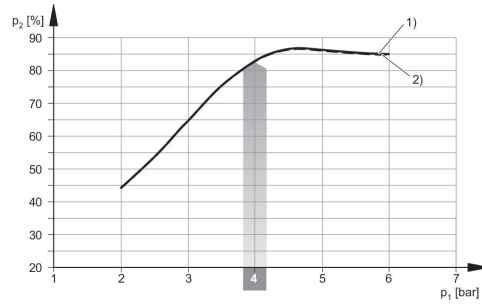
The IO-Link device description (IODD) for the ECD compact ejector is available for download in the Media Center.

Suction capacity q_s depending on working pressure p_1



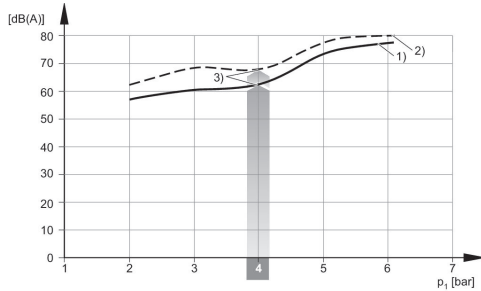
- 1) \varnothing nozzle [[1.0] mm]
- 2) \varnothing nozzle [[1.5] mm]
- 3) optimum working pressure

Vacuum p_2 depending on working pressure p_1



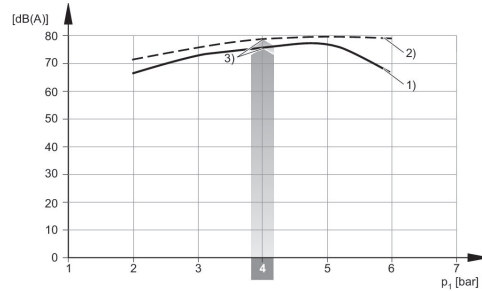
- 1) \varnothing nozzle [[1.0] mm]
- 2) \varnothing nozzle [[1.5] mm]

Noise level, suctioned



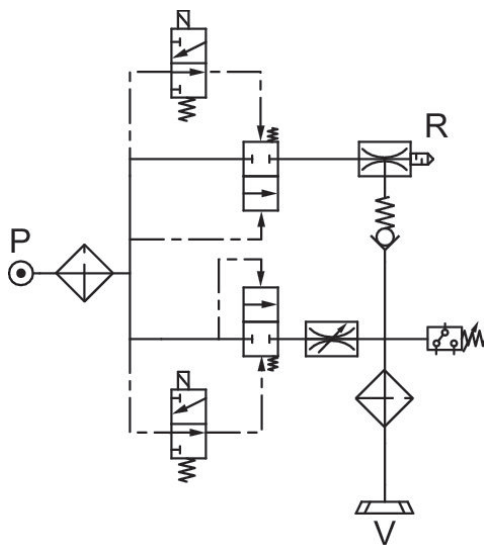
- 1) \varnothing nozzle [[1.0] mm]
- 2) \varnothing nozzle [[1.5] mm]
- 3) optimum working pressure

Noise level at free suctioning



- 1) \varnothing nozzle [[1.0] mm]
- 2) \varnothing nozzle [[1.5] mm]
- 3) optimum working pressure

Circuit diagram ECD-IV-...NC



Circuit diagram ECD-IV-...NO

