

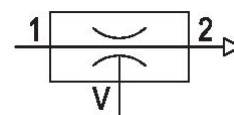
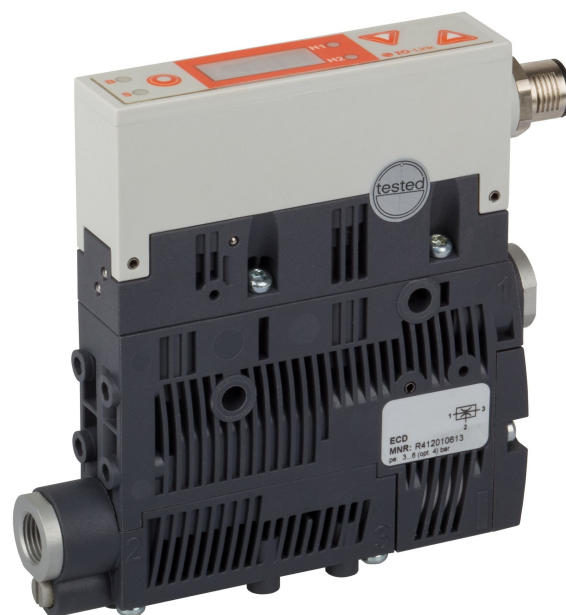
compact ejector, Series ECD-IV

2024-02-20

R412010613

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) |
| 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/m ³ |
| Max. oil content of compressed air | 1 mg/m ³ |
| 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.) | 5 bar |
| release valve | 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. | R412010613 |

Technical information

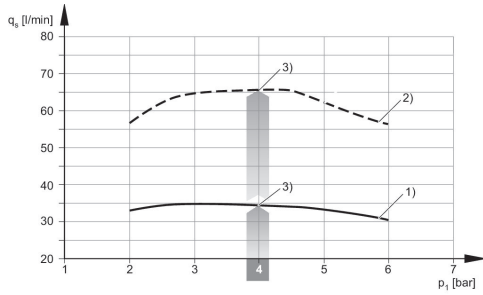
Note: All data refers to an ambient pressure of $[[1,013]$ bar] and an ambient temperature of $[[20]$ °C]. The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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.

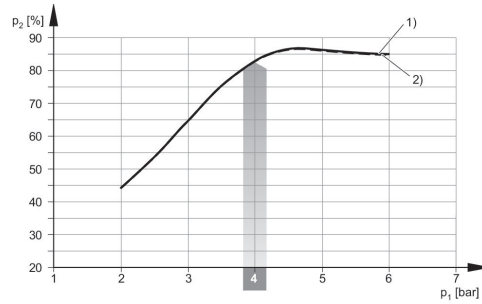
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Suction capacity q_s depending on working pressure p_1



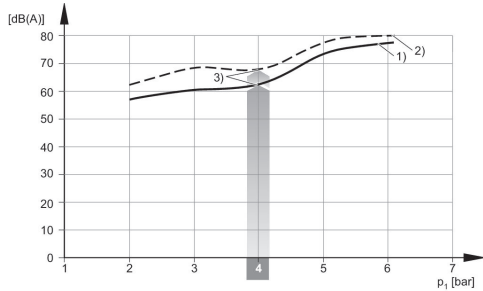
- 1) \varnothing nozzle [[1.0] mm]
- 2) \varnothing nozzle [[1.5] mm]
- 3) optimum working pressure

Vacuum p_2 depending on working pressure p_1



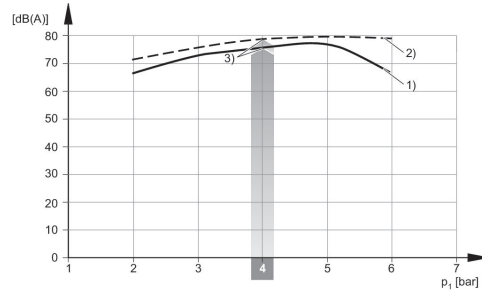
- 1) \varnothing nozzle [[1.0] mm]
- 2) \varnothing nozzle [[1.5] mm]

Noise level, suctioned



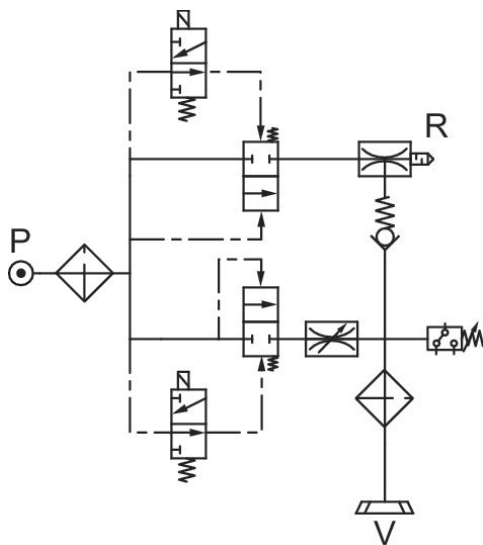
- 1) \varnothing nozzle [[1.0] mm]
- 2) \varnothing nozzle [[1.5] mm]
- 3) optimum working pressure

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

