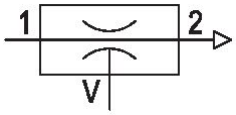
compact ejector, Series ECD-SV

R412010610

Serie ECD-SV

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
Switching logic	NC (break contact)
with silencer	with silencer
Nozzle Ø	1.5 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	64.3 l/min

Air consumption at p.opt.	98.9 l/min
Max. vacuum level at p.opt	81.5 %
Sound pressure level intake effect	68 dB
Sound pressure level intake effect	79 dB
Protection against overpressure (max.)	5 bar
with air economizer	with air economizer
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	125 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.	R412010610

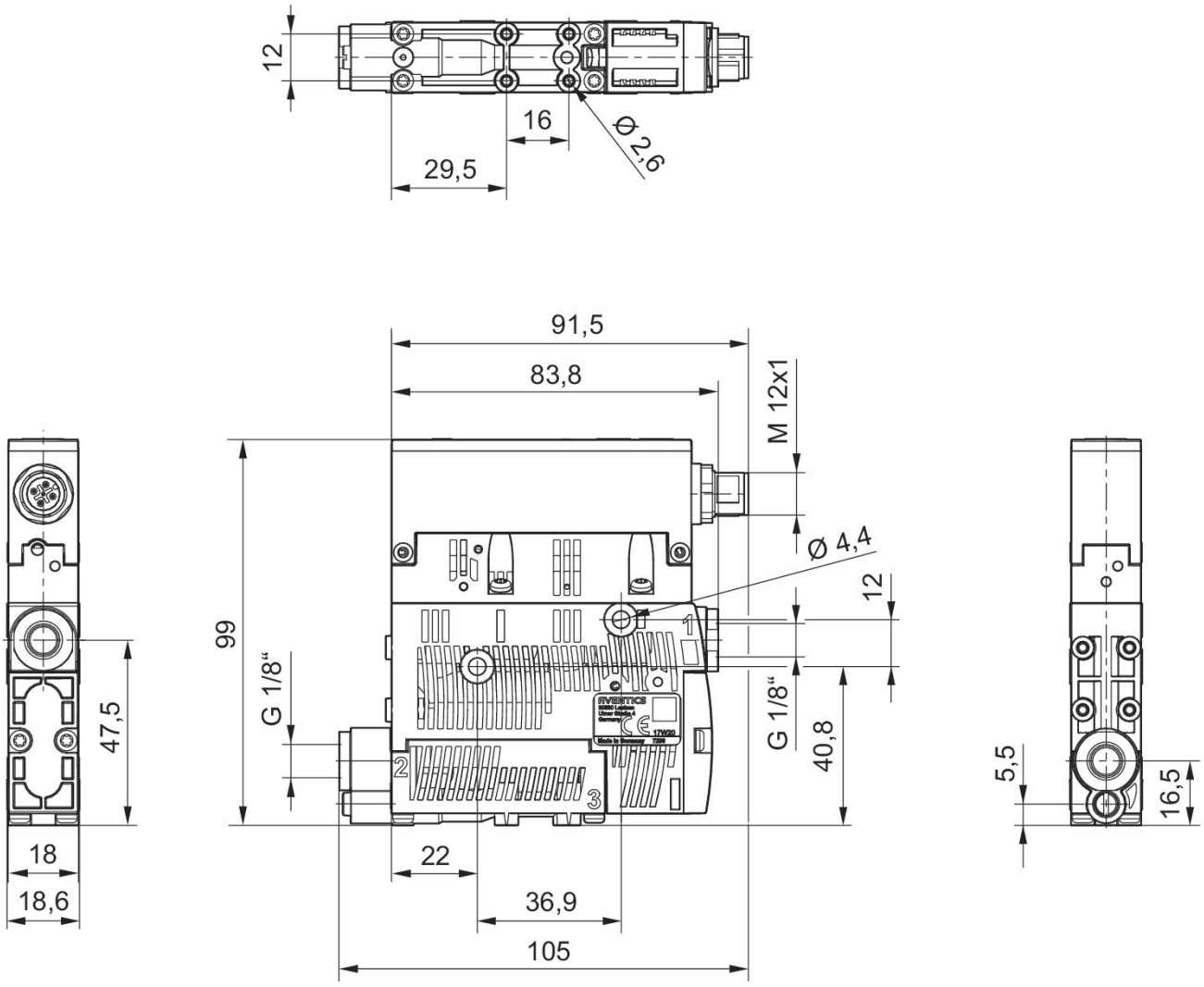
Technical information

Note: All data refers to an ambient pressure of [[1,013] bar] and an ambient temperature of [[20]°C].

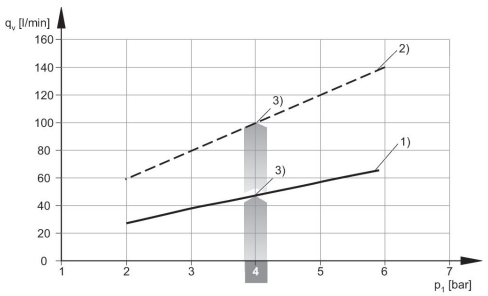
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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

Dimensions

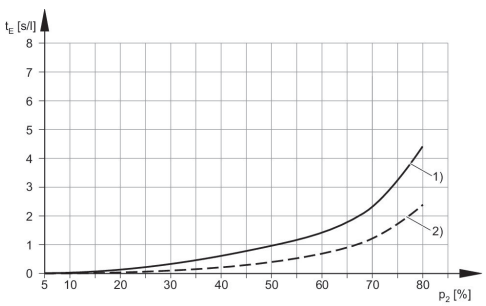


Air consumption qv depending on working pressure p1



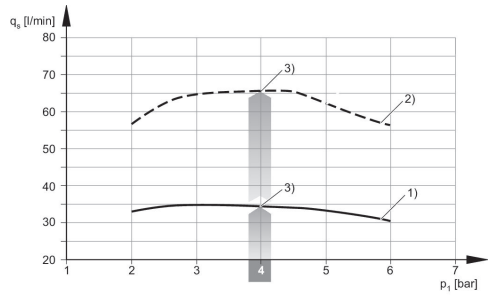
1) Ø nozzle [[1.0] mm]
2) Ø nozzle [[1.5] mm]
3) optimum working pressure

Evacuation time tE depending on vacuum p2 for 1 l volume (with optimal operating pressure p1opt)



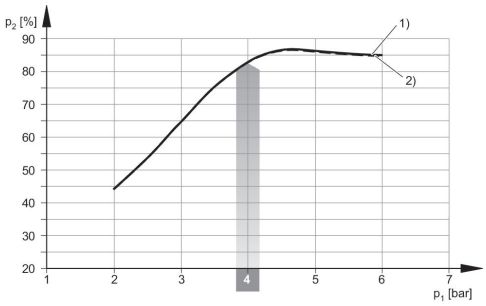
1) Ø nozzle [[1.0] mm]
2) Ø nozzle [[1.5] mm]

Suction capacity qs depending on working pressure p1



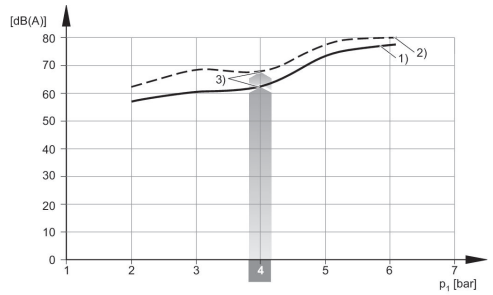
1) Ø nozzle [[1.0] mm]
2) Ø nozzle [[1.5] mm]
3) optimum working pressure

Vacuum p2 depending on working pressure p1



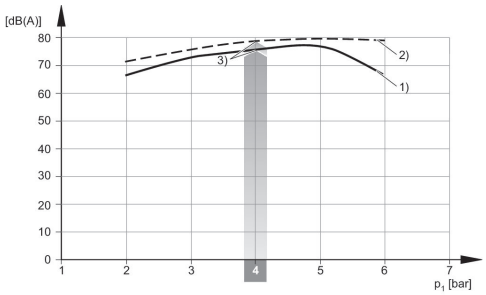
1) Ø nozzle [[1.0] mm]
2) Ø nozzle [[1.5] mm]

Noise level, suctioned



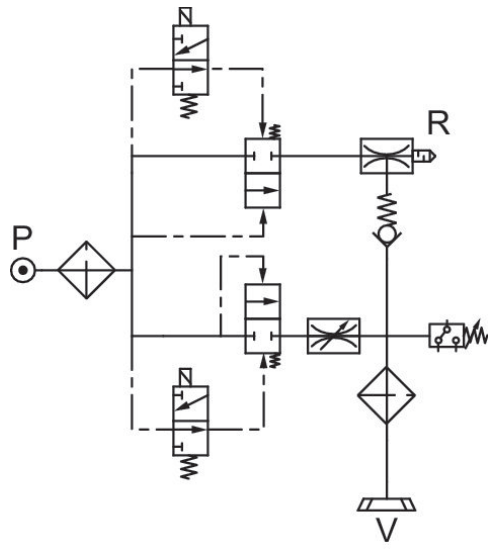
1) Ø nozzle [[1.0] mm]
2) Ø nozzle [[1.5] mm]
3) optimum working pressure

Noise level at free suctioning



1) Ø nozzle [[1.0] mm]
2) Ø nozzle [[1.5] mm]
3) optimum working pressure

Circuit diagram
ECD-SV-...NC



Circuit diagram
ECD-SV-...NO