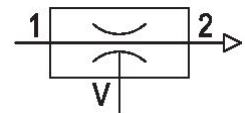


AVENTICS Series ECV Ejectors

AVENTICS ECV Series are compact vacuum ejectors especially designed to be integrated HF03 valve terminal systems. Series ECV insure multiple functions as restricted exhaust, vacuum switch or silencer.



Technical data

Industry

Industrial

Activation

Electrically

Note

Archive product: Do not use in new constructions!

For HF03 valve system

with silencer

with silencer

Nozzle Ø

1.5 mm

Min. working pressure

3 bar

Max. working pressure

6 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

Compressed air connection

G 1/8

Vacuum connection+

G 1/8

Max. suction capacity

63 l/min

Air consumption at p.opt.	116 l/min
Sound pressure level intake effect	67 dB
Sound pressure level intake effect	73 dB
Weight	0.11 kg
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Nozzle material	Brass
Silencer material	Polyethylene
Part No.	0821305165

Technical information

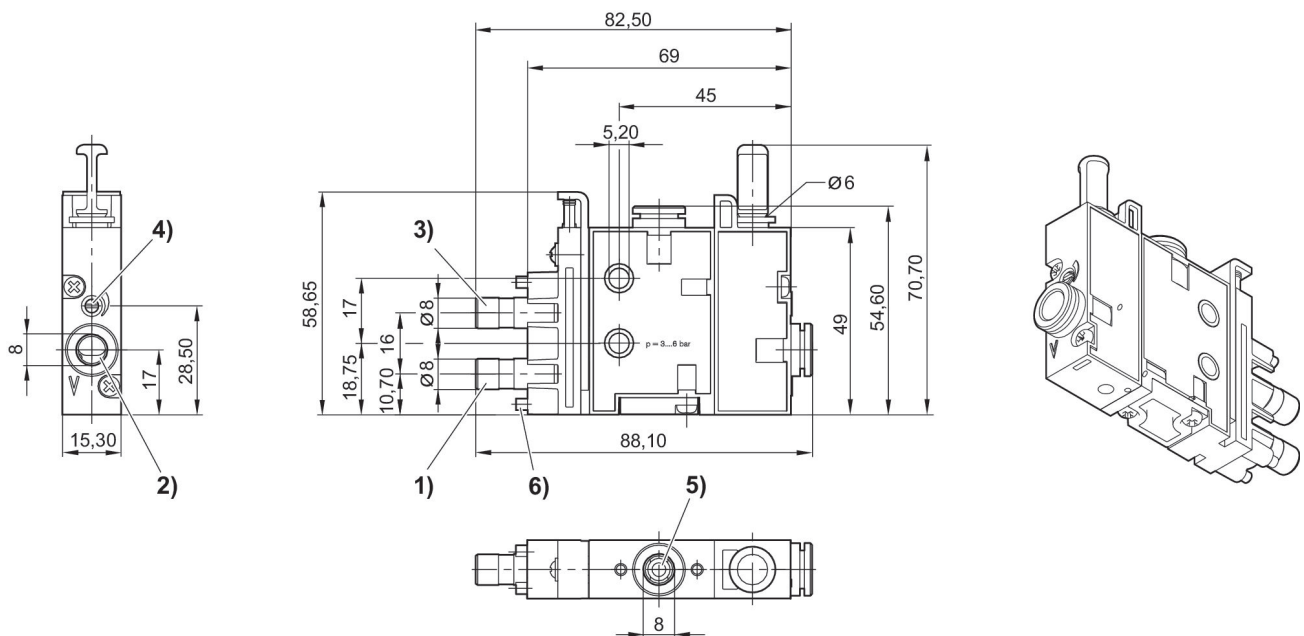
Note: All data refers to an ambient pressure of $[[1,013]$ bar] and an ambient temperature of $[[20]^{\circ}\text{C}]$.

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.

p.opt. = optimum working pressure

Fig. 1
ECV-PC-15-NN
With ventilation port

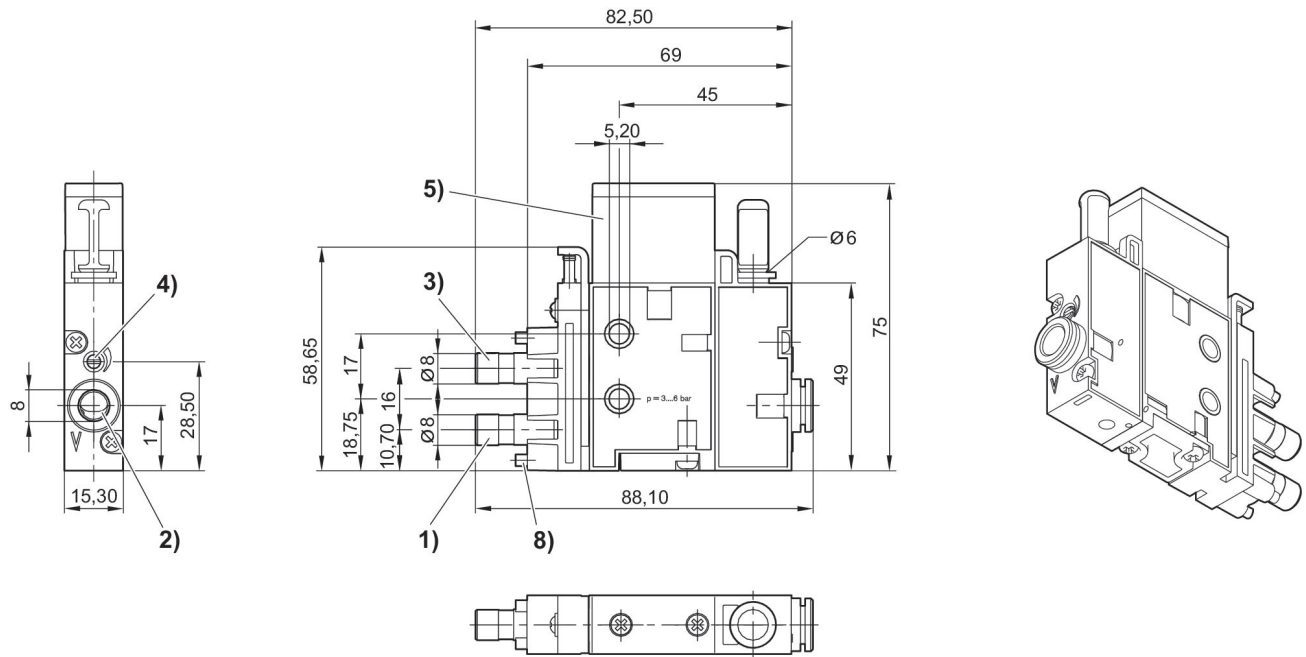


1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) ventilation port
6) Spacer

Fig. 2

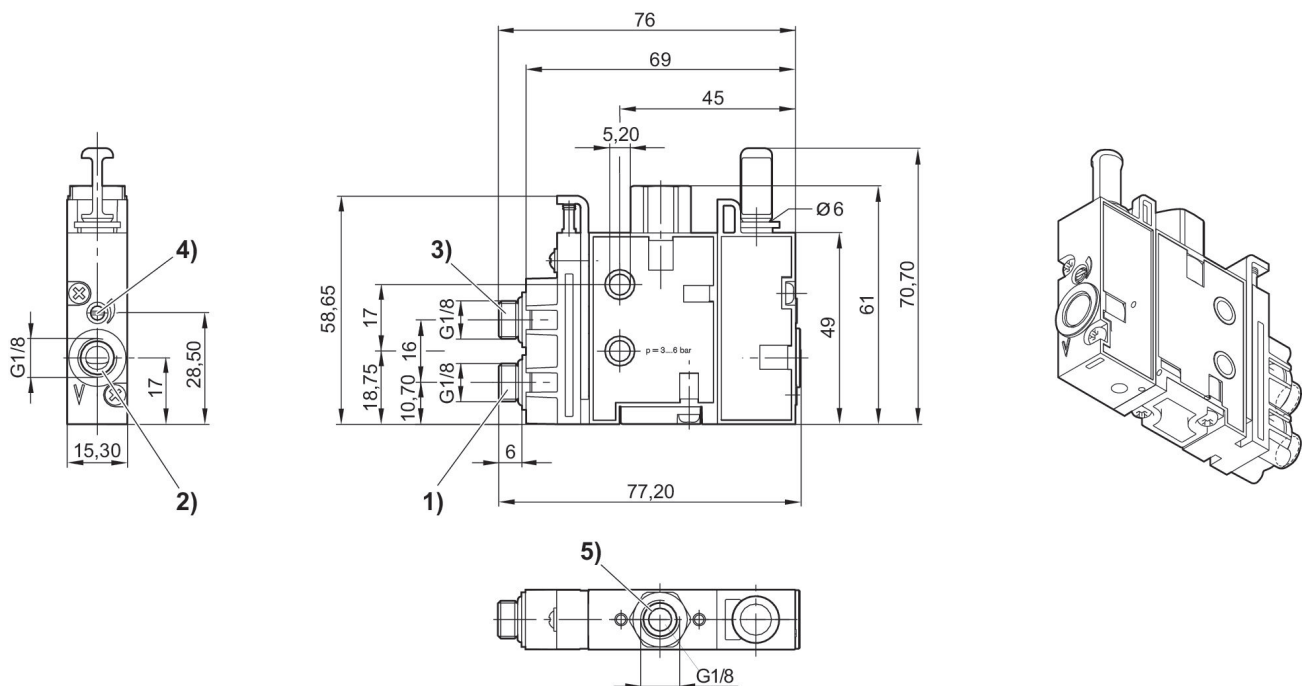
0821305165

ECV-PC-15-NN with silencer



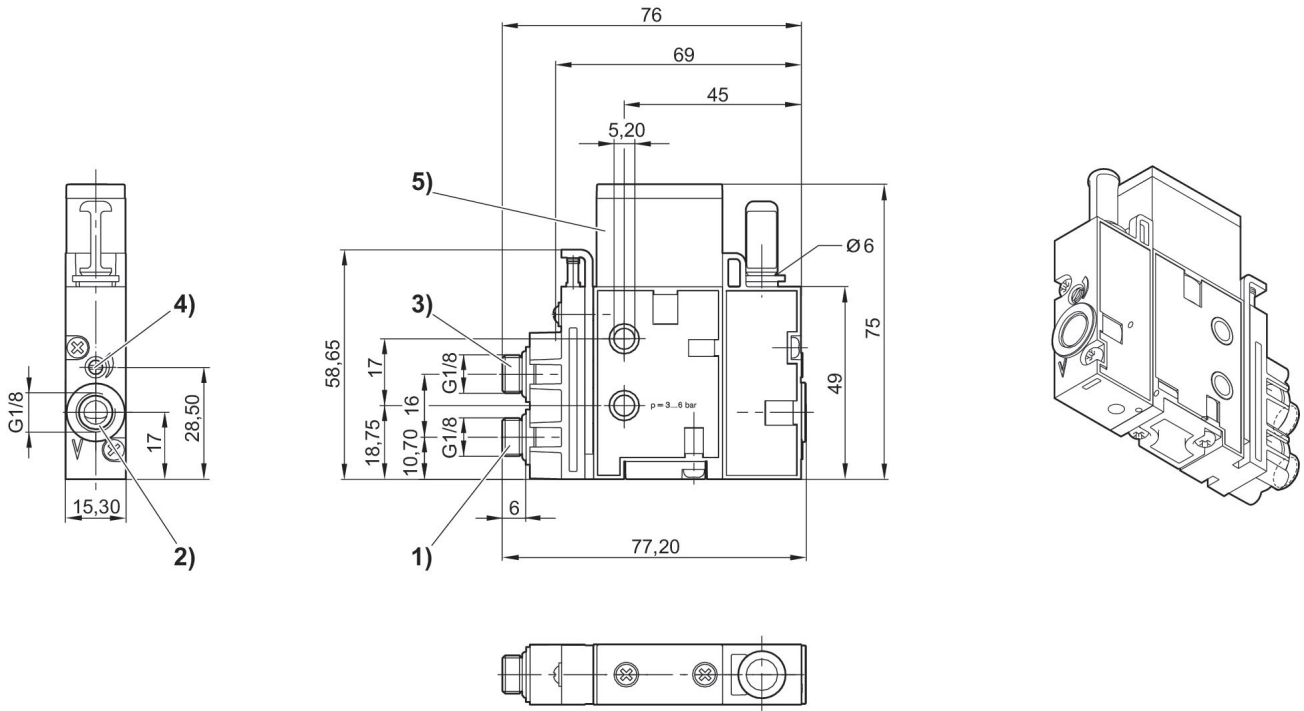
1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) silencer
6) Spacer

Fig. 3 ECV-PC-15-NN With ventilation port



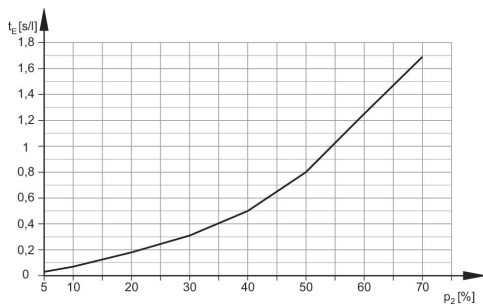
1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) ventilation port

Fig. 4
ECV-PC-15-NN
with silencer

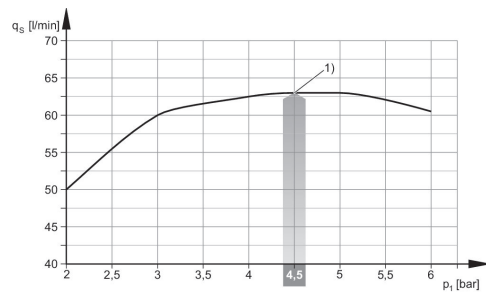


1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) silencer

Evacuation time t_E depending on vacuum p_2 for 1 l volume (with optimal operating pressure p_{1opt})

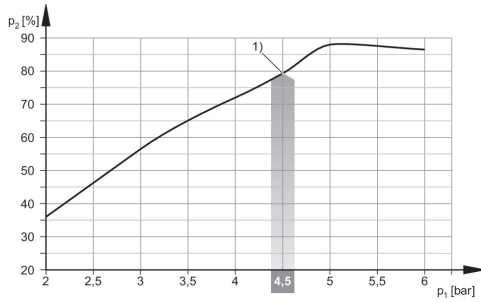


Suction capacity q_s depending on working pressure p_1



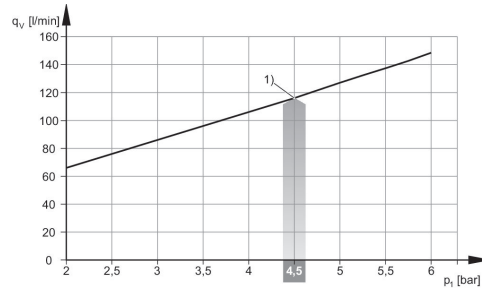
1) optimum working pressure

Vacuum p₂ depending on working pressure p₁



1) optimum working pressure

Air consumption q_v depending on working pressure p₁



1) optimum working pressure

Fig. 8
ECV-HF03-...with NC activation

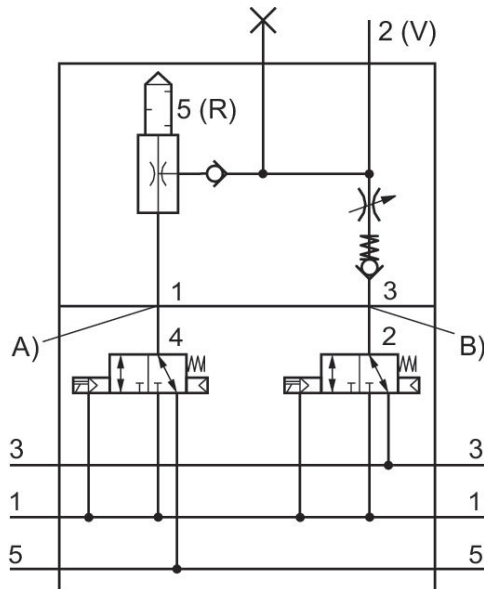
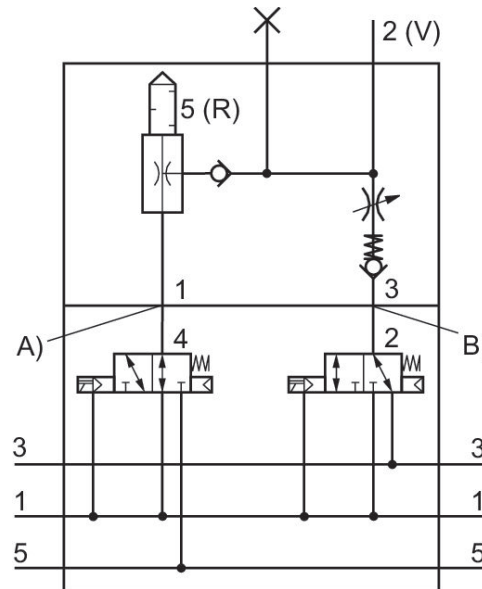


Fig. 7
ECV-HF03-...with NO activation



A) Air connection suction
B) release pulse air connection

Fig. 6
ECV-HF03-...with NC activation

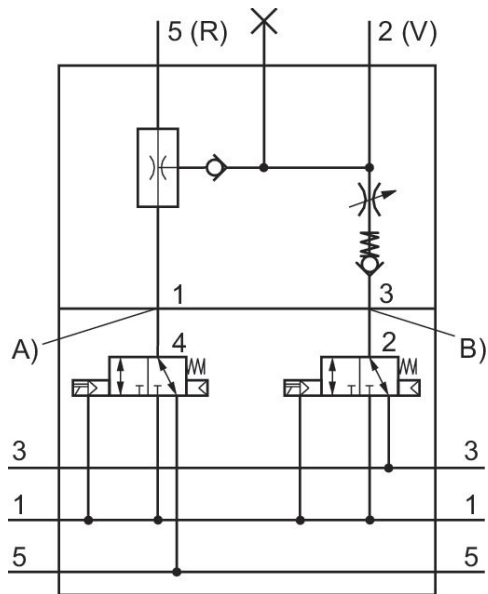
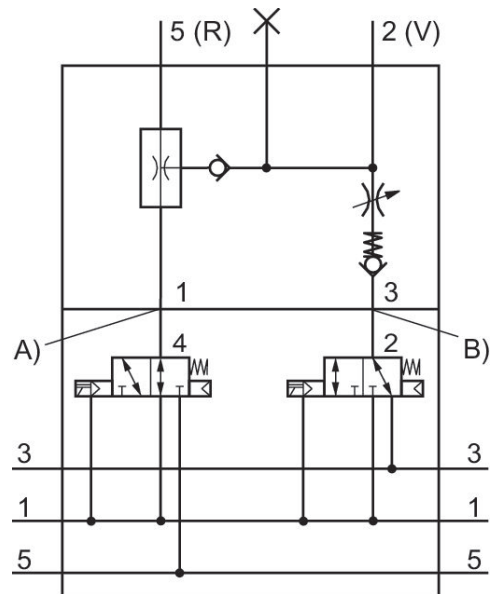


Fig. 5
ECV-HF03-...with NO activation



A) Air connection suction
B) release pulse air connection