

Series EBP



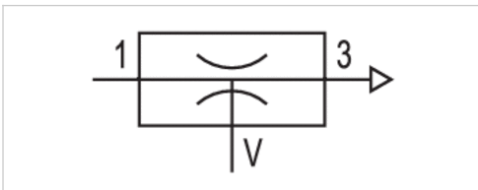
AVENTICS™ Series EBP



Series EBP



Activation	pneumatically
Working pressure min./max.	2 ... 6 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 1 mg/m ³
Weight	See table below



Technical data

Part No.	Type	Nozzle Ø	Max. vacuum level at p.opt	Max. suction capacity
7350150000	EBP-PT-05-NN	0.5 mm	82 %	6.4 l/min
7350300000	EBP-PT-07-NN	0.7 mm	83 %	17 l/min
7350600000	EBP-PT-10-NN	1 mm	89 %	40 l/min
7351200000	EBP-PT-15-NN	1.5 mm	87 %	70 l/min
7352400000	EBP-PT-21-NN	2.1 mm	90 %	125 l/min
7354200000	EBP-PT-30-NN	3 mm	90 %	240 l/min

Part No.	Air consumption at p.opt.	Weight
7350150000	15.5 l/min	0.06 kg
7350300000	27 l/min	0.08 kg
7350600000	60 l/min	0.13 kg
7351200000	120 l/min	0.14 kg
7352400000	225 l/min	0.22 kg
7354200000	420 l/min	0.24 kg

p.opt. = optimum working pressure

Technical information

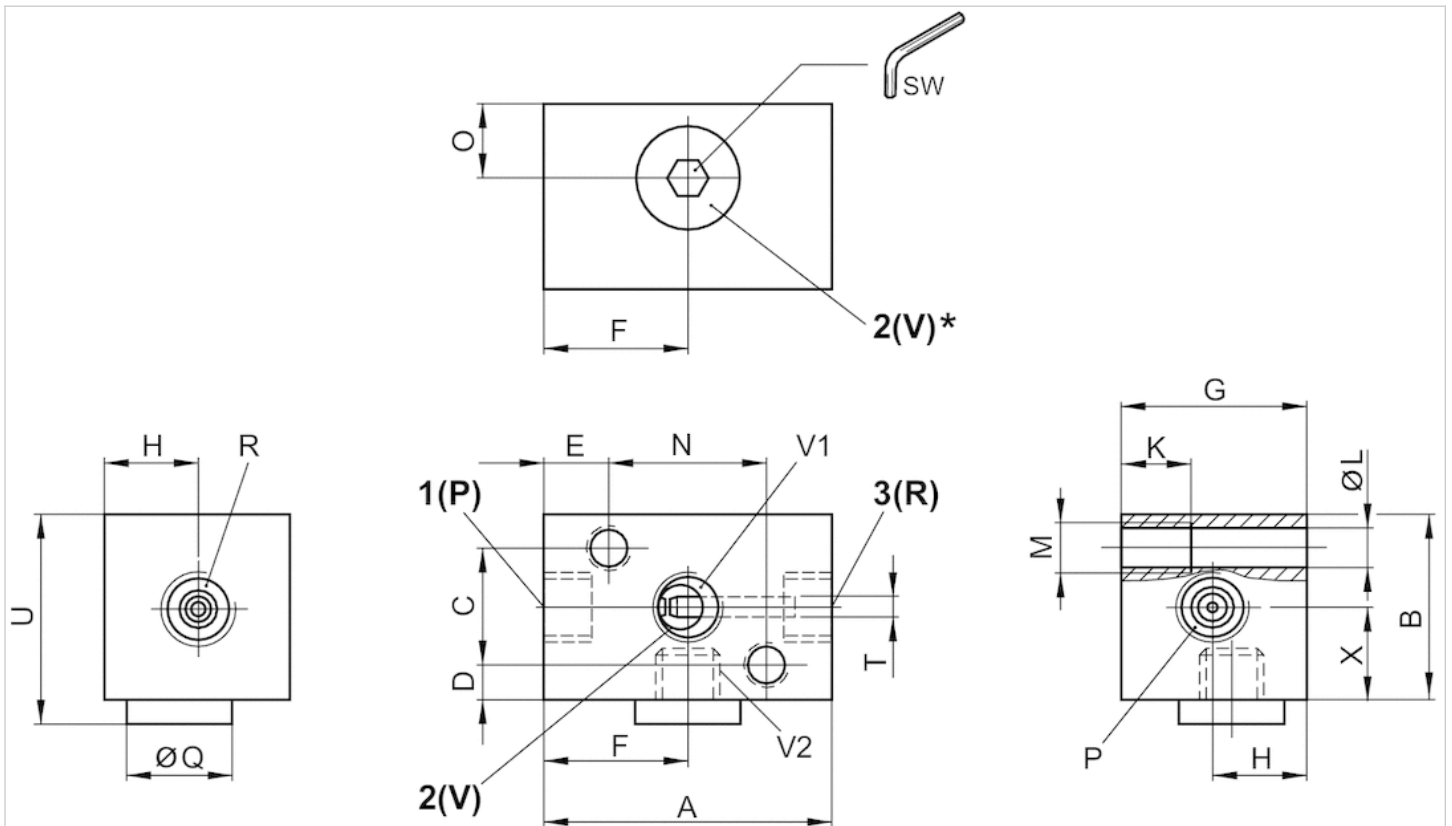
Note: All data refers to an ambient pressure of 1.013 bar and an ambient temperature of 20 °C .
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.

Technical information

Material	
Housing	Aluminum, anodized
Seal	Acrylonitrile butadiene rubber
Nozzle	Brass

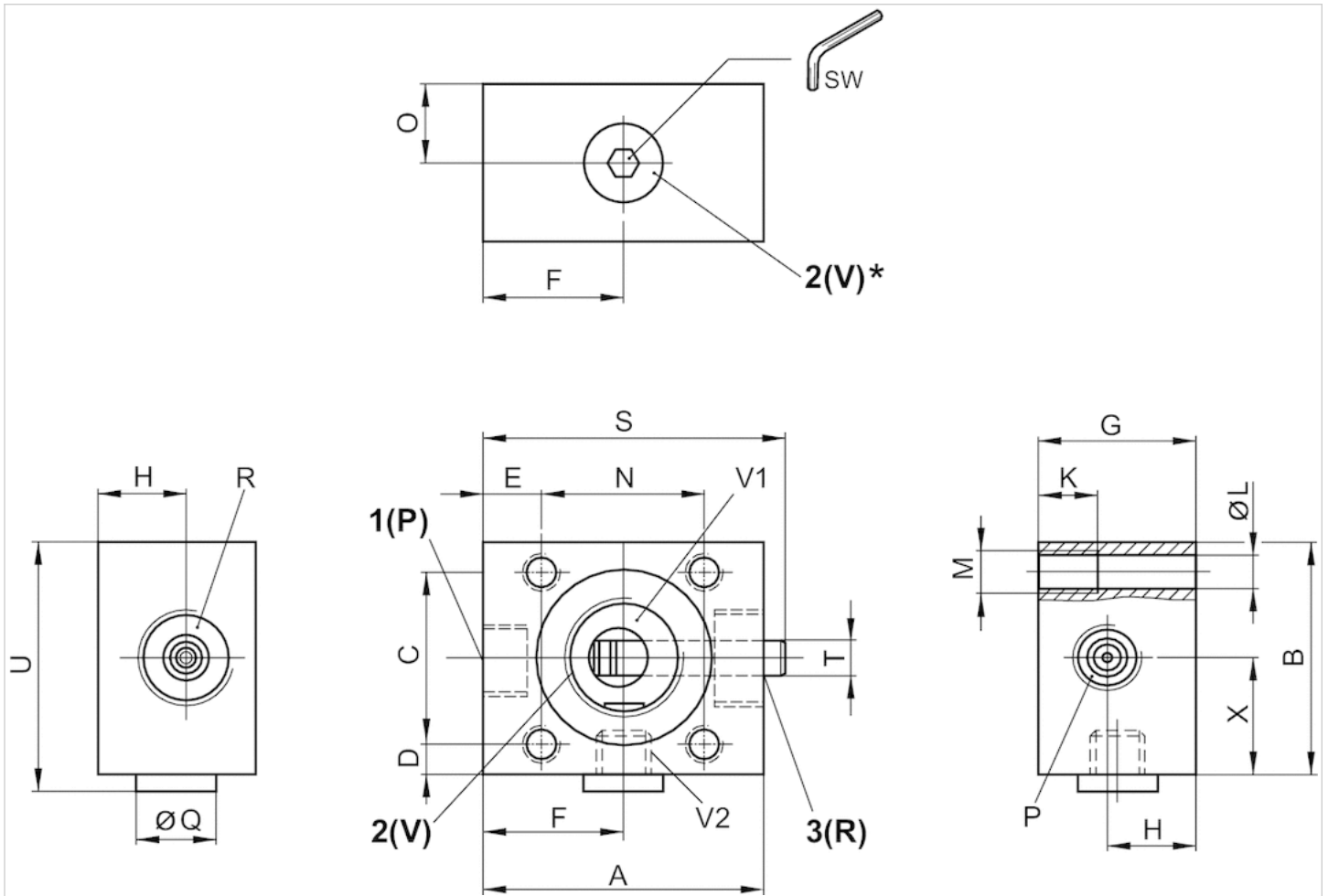
Dimensions

EBP-PT-05 / 07



* Compressed air connection for pressure sensor

EBP-PT-10 .../ -30



* Compressed air connection for pressure sensor

Dimensions

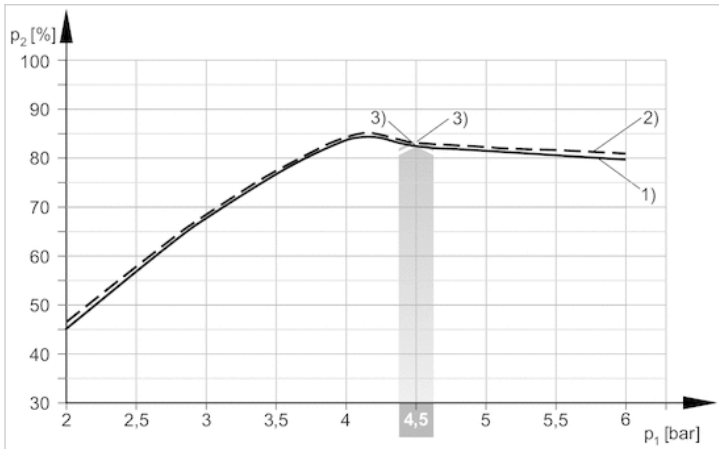
Part No.	A	B	C	D	E	F	G	H	K	ØL	M	N	O	P 1)	ØQ	R	S	SW	ØT
7350150000	40	25	16	4.5	9	20	25	12.5	10	5.1	M6	22	10	G 1/8x8	14	G 1/8x8	-	5	5
7350300000	50	25	16	4.5	12	23	25	12.5	10	5.1	M6	22	10	G 1/8x8	14	G 1/8x8	-	5	-
7350600000	50	40	29	5.5	10.5	25	28	15.5	12	5.1	M6	29	14	G 1/4x10	14	G 3/8x9	-	5	8
7351200000	50	40	29	5.5	10.5	25	28	15.5	12	5.1	M6	29	14	G 1/4x10	14	-	52.5	5	8
7352400000	60	40	29	5.5	10.5	25	40	21.5	12	5.1	M6	29	21.5	G 1/4x10	14	G 1x12	-	5	-
7354200000	60	40	29	5.5	10.5	25	40	21.5	12	5.1	M6	29	21.5	G 1/4x10	14	G 1x12	-	5	-

U	V1 2)	V2 3)	X
28	G 1/8x8	G 1/8x7	12,5
28.5	G 1/8x8	G 1/8x7	12,5
43	G 1/2x9	G 1/8x8	20
43	G 1/2x9	G 1/8x8	20
43	G 1/2x9	G 1/8x8	20
43	G 1/2x9	G 1/8x8	20

- 1) Inlet
- 2) Suction connection
- 3) Variable connection for vacuum

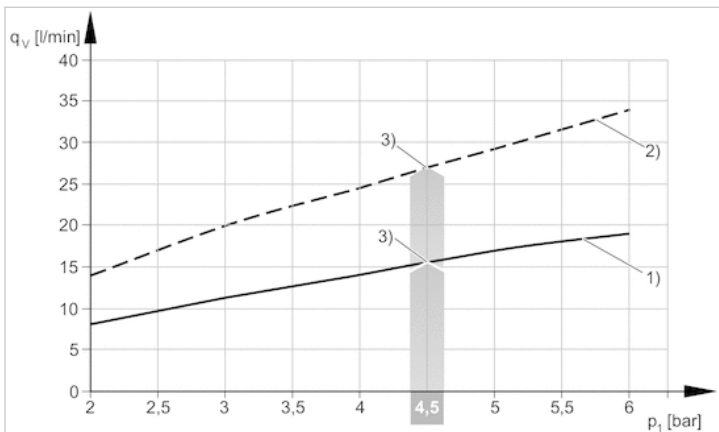
Diagrams

Vacuum p_2 depending on working pressure p_1

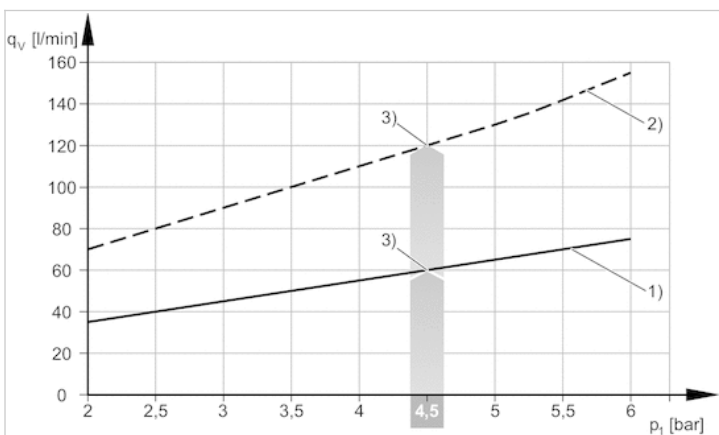


- 1) \varnothing nozzle 0.5 mm
- 2) \varnothing nozzle 0.7 mm
- 3) optimum working pressure

Air consumption q_v depending on working pressure p_1

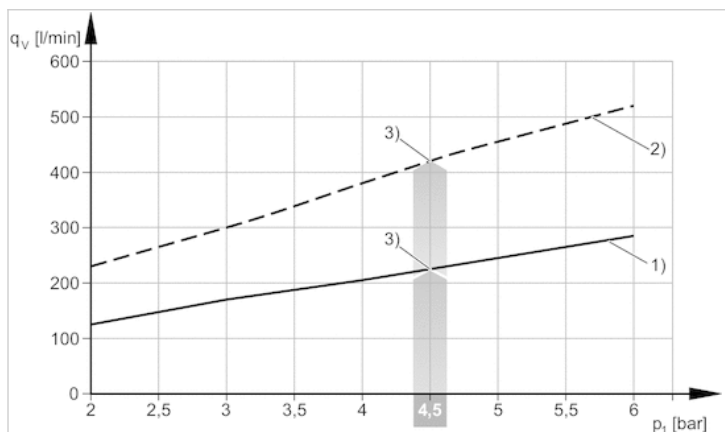


- 1) \varnothing nozzle 0.5 mm
- 2) \varnothing nozzle 0.7 mm
- 3) optimum working pressure

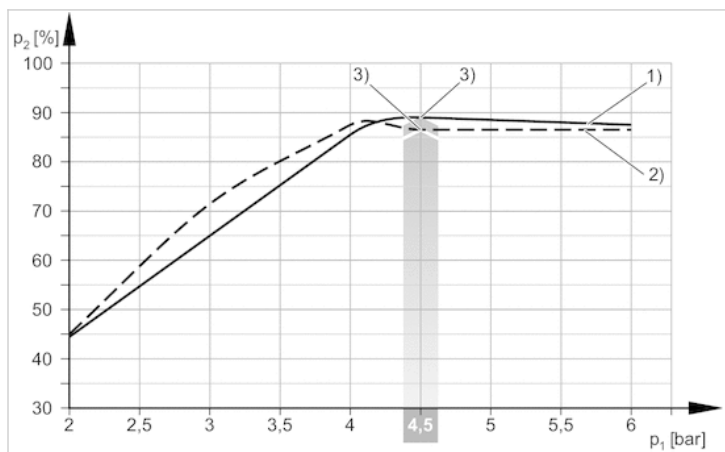


- 1) \varnothing nozzle 1.0 mm
- 2) \varnothing nozzle 1.5 mm

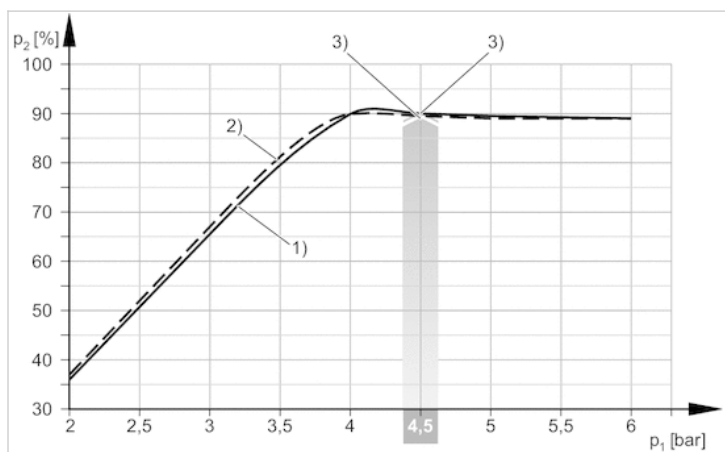
3) optimum working pressure



- 1) \varnothing nozzle 2.1 mm
- 2) \varnothing nozzle 3.0 mm
- 3) optimum working pressure

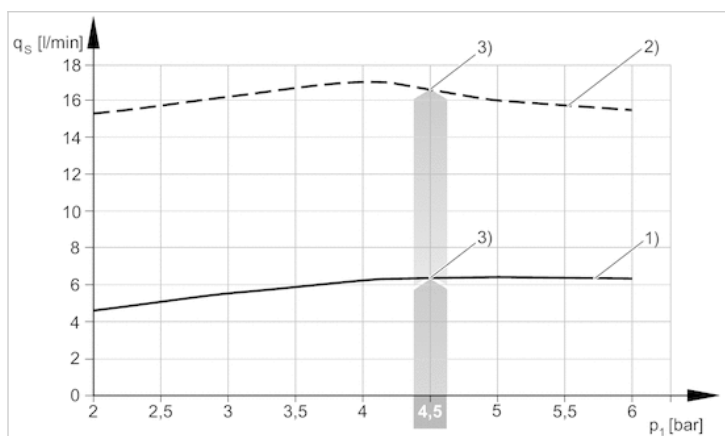


- 1) \varnothing nozzle 1.0 mm
- 2) \varnothing nozzle 1.5 mm
- 3) optimum working pressure

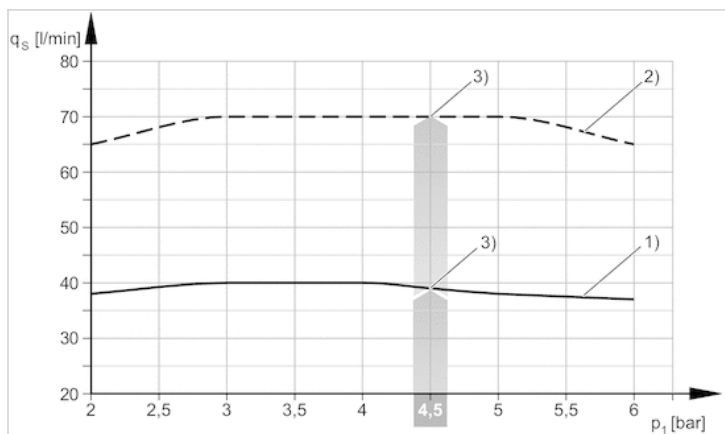


- 1) \varnothing nozzle 2.1 mm
- 2) \varnothing nozzle 3.0 mm
- 3) optimum working pressure

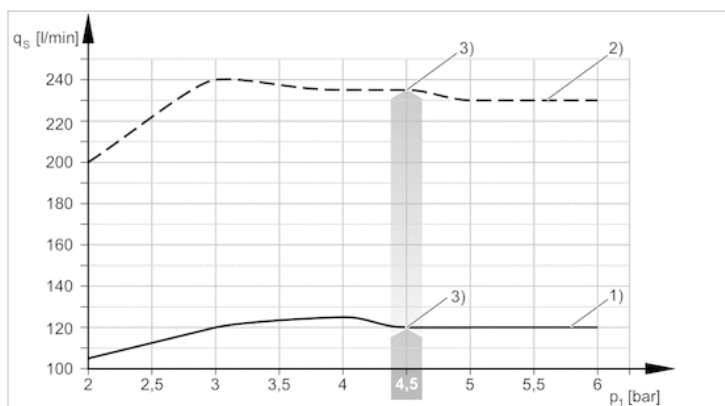
Suction capacity q_s depending on working pressure p_1



- 1) \varnothing nozzle 0.5 mm
- 2) \varnothing nozzle 0.7 mm
- 3) optimum working pressure

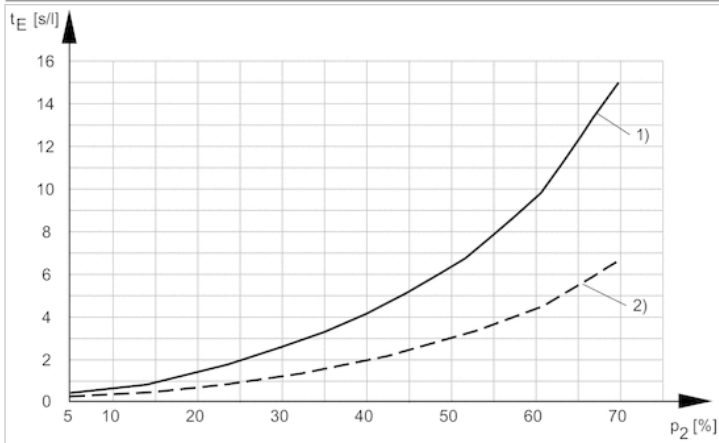


- 1) \varnothing nozzle 1.0 mm
- 2) \varnothing nozzle 1.5 mm
- 3) optimum working pressure

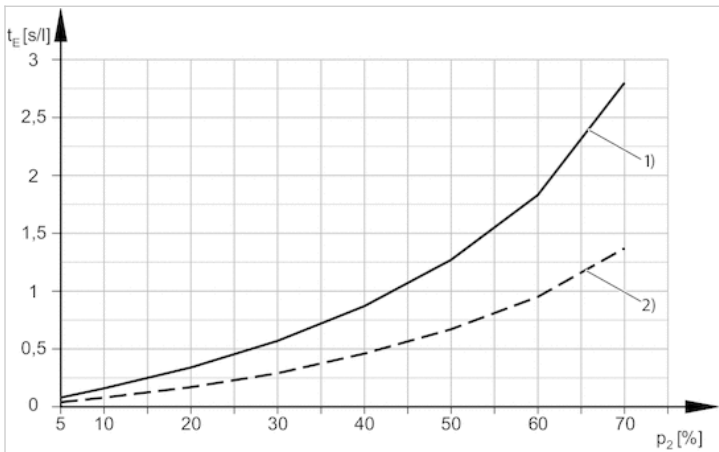


- 1) \varnothing nozzle 2.1 mm
- 2) \varnothing nozzle 3.0 mm
- 3) optimum working pressure

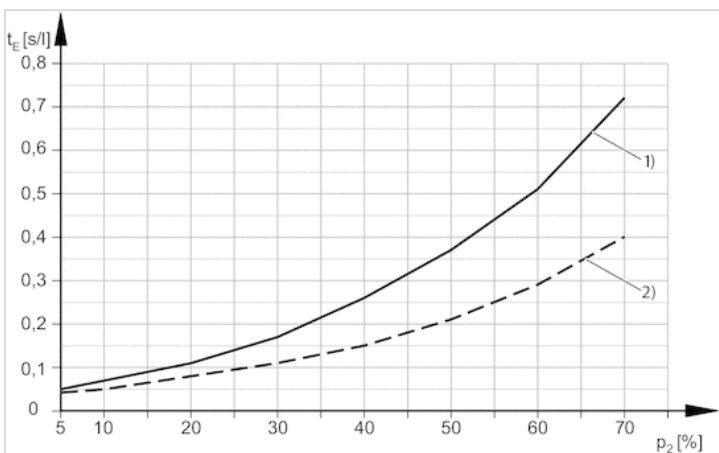
Evacuation time t_E depending on vacuum p_2 for 1 l volume (with optimal operating pressure p_{1opt})



- 1) \varnothing nozzle 0.5 mm
- 2) \varnothing nozzle 0.7 mm



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



- 1) \varnothing nozzle 2.1 mm
- 2) \varnothing nozzle 3.0 mm

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