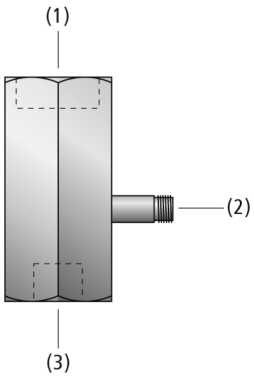
Inline Ejectors VR

Suction rate from 7 l/min to 24 l/min

METAL PACKAGING PLASTICS

Inline Ejectors VR



System Design Inline Ejectors VR

Decentral vacuum generation by inline ejectors VR when handling plastic parts

Suitability for Industry Specific Applications

Applications

- Inline ejector for installation between suction cup and compressed air supply
- Handling of all types of workpieces with manipulators, industrial robots and feeder systems

Design

- Main body made of anodized aluminum
- Nozzle system made of brass
- Vacuum generator with single-stage nozzle
- Compressed air connection (1)
- Exhaust air (2)
- Vacuum connection (3)

Product Highlights

- Inline ejector enables direct installation in the hose line
- Compact, lightweight aluminum main body ideal for confined spaces and high dynamics

Contact Schmalz: J. Schmalz GmbH / Johannes-Schmalz-Str. 1 / 72293 Glatten / +49 7443 2403-105 / kundencenter@schmalz.de

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Designation Code Inline Ejectors VR

VR	–	05
1		2

1 – Abbreviated designation

Code	Version
VR	VR

2 – Nozzle size

Code	Diameter in mm
05…09	ø 0.5 to 0.9

Inline ejector VR is delivered as a ready-to-connect product.

Ordering Data Inline Ejectors VR

Type	Part no.
VR 05	10.02.01.00075
VR 07	10.02.01.00001
VR 09	10.02.01.00077

Technical Data Inline Ejectors VR

Type	Nozzle diameter [mm]	Degree of evacuation [%]	Suction rate (max.) [l/min]	Suction rate (max.) [m³/h]	Air consumption suction [l/min]*	Air consumption suction [m³/h]**	Weight [g]	Operating temperature [°C]	Optimal operating pressure [bar]
VR 05	0.5	87	7	0.4	12	0.7	15	0 … 60 °C	5
VR 07	0.7	90	14	0.8	21	1.3	15	0 … 60 °C	5
VR 09	0.9	89	21	1.3	36	2.2	15	0 … 60 °C	5

*At optimal operating pressure
**At optimal operating pressure

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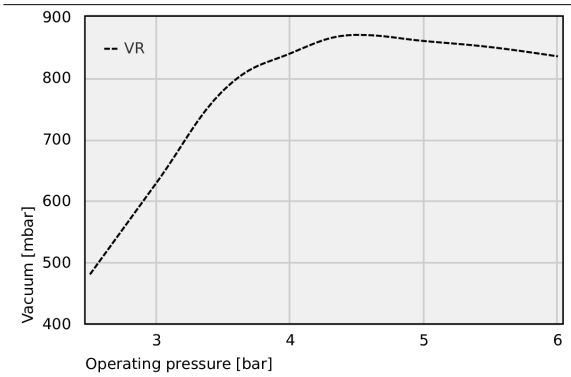
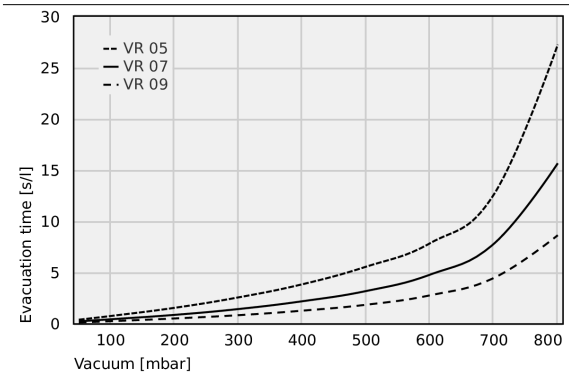
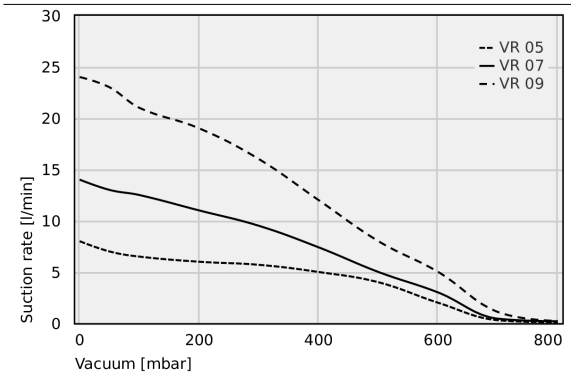
Performance Data Inline Ejectors VR



Achievable vacuum at various operating pressures



Evacuation times for various vacuum ranges [s/l]



Suction capacity at various degrees of evacuation [l/min]

Achievable vacuum at various operating pressures

	2.5	3	3.5	4	4.5	5	5.5	6
VR	480.00	630.00	780.00	840.00	870.00	860.00	850.00	835.00

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Evacuation times for various vacuum ranges [s/l]

	50	100	200	300	400	500	600	700	800
VR 05	0.37	0.73	1.53	2.55	3.83	5.55	7.84	12.61	27.25
VR 07	0.21	0.41	0.84	1.41	2.17	3.17	4.77	7.79	15.65
VR 09	0.10	0.22	0.49	0.81	1.25	1.83	2.75	4.45	8.62

Suction capacity at various degrees of evacuation [l/min]

	0	50	100	200	300	400	500	600	700	800
VR 05	8.00	7.00	6.50	6.00	5.70	5.00	4.00	2.00	0.30	0.10
VR 07	14.00	13.00	12.50	11.00	9.50	7.40	5.00	3.00	0.45	0.20
VR 09	24.00	23.00	21.00	19.00	16.00	12.00	8.00	5.00	1.10	0.24

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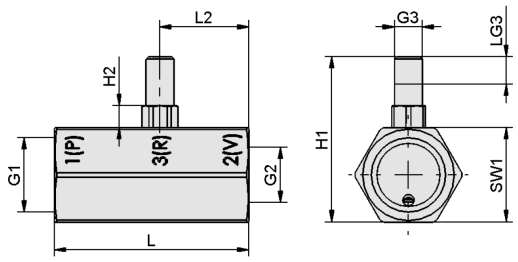
Design Data Inline Ejectors VR



VR

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Design Data Inline Ejectors VR

Type	G1	G2	G3	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	LG3 [mm]	SW1 [mm]
VR 05	G1/4"-F	G1/8"-F	M5-M	29.8	4	35	16	5	17
VR 07	G1/4"-F	G1/8"-F	M5-M	29.8	4	35	16	5	17
VR 09	G1/4"-F	G1/8"-F	M5-M	29.8	4	35	16	5	17

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