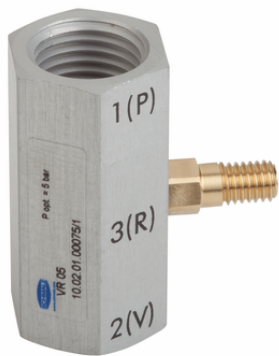


# Inline ejector VR 05

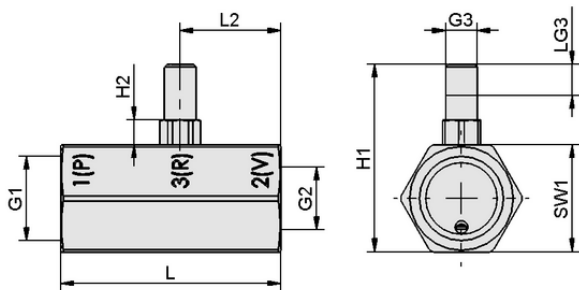


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VR 05

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



Design data VR 05

### Technical data

| Attribute                  | Value      |
|----------------------------|------------|
| Nozzle diameter            | 0.5 mm     |
| Degree of evacuation       | 87.0 %     |
| Air consumption suction    | 12.0 l/min |
| Suction rate (max.)        | 7.0 l/min  |
| Optimal operating pressure | 5.00 bar   |

### Design data

| Attribute         | Value    |
|-------------------|----------|
| Length L2         | 16.00 mm |
| Length L          | 35.00 mm |
| Height H1         | 29.80 mm |
| Height H2         | 4.00 mm  |
| Thread G1         | G1/4"-F  |
| Thread G2         | G1/8"-F  |
| Thread length LG3 | 5.0 mm   |
| Key width SW1     | 17.0 mm  |
| Thread G3         | M5-M     |



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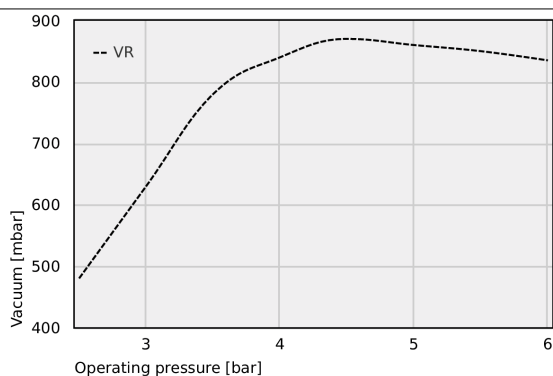


## Technical data

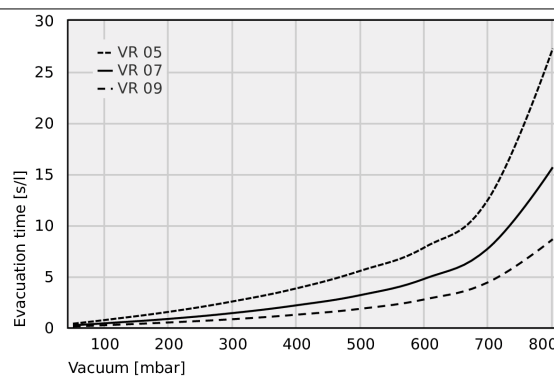
| Attribute                  | Value       |
|----------------------------|-------------|
| Nozzle diameter            | 0.5 mm      |
| Degree of evacuation       | 87.0 %      |
| Weight                     | 15.0 g      |
| Air consumption suction    | 0.423 cfm   |
| Suction rate (max.)        | 0.247 cfm   |
| Optimal operating pressure | 5.00 bar    |
| Operating temperature      | 0 ... 60 °C |
| Optimal pressure           | 72.5 psi    |
| Product family             | VR          |



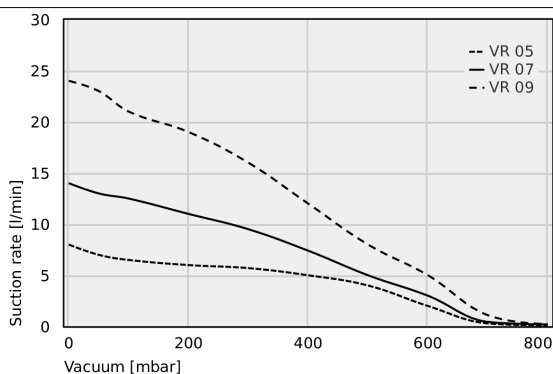
## Performance data



Achievable vacuum at various operating pressures



Evacuation time for various vacuum ranges [s/l]



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



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## 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 |



## Evacuation time 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 rate 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 |



## Further documentation

CAD data and other documents relating to the article can be found at: [www.schmalz.com/10.02.01.00075](http://www.schmalz.com/10.02.01.00075)