

VACUUM SPEEDER

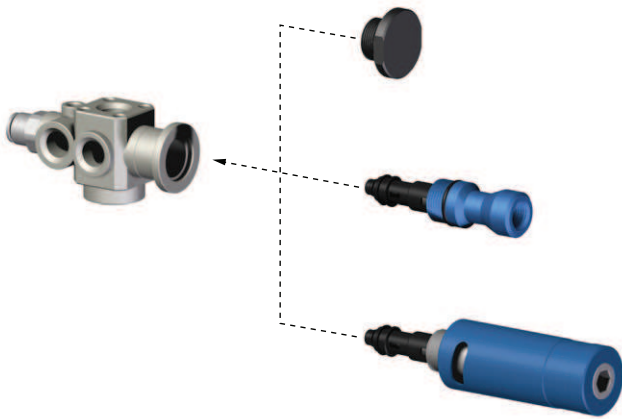
VACUUM
SPEEDER



Select Vacuum speeder

• Select Vacuum Cartridge

- Choose the non-return valve option for sealed system applications to prevent immediate loss of vacuum and resulting release of product, etc due to an interrupted air supply.



- ▶ Select a VSM (Vacuum Speeder) without a vacuum cartridge when using as a slave to another vacuum source; typically sealed applications or where fast response time is not required.
- ▶ Select a VSM with VMECA 2-stage VC202 Mini cartridge to provide sufficient vacuum flow (up to 41 NI/m) for sealed applications (i.e. sheet metal handling) or for low volume applications (i.e. small vacuum cups). Optional non-return valve available.*
- ▶ Select a VSM with the VMECA 3-stage VC203 cartridge (vacuum flow up to 85 NI/m) for quick response time in high volume, sealed applications (i.e. large vacuum cups) or for non-sealed applications (i.e. cardboard handling) where high vacuum flow is required. Optional non-retrun valve is available.*

• Select mounting and mounting position



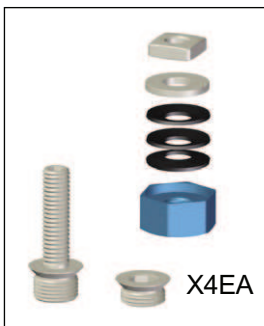
▶ Option “F” - Direct Plate Mounting exm. ①

Mount directly to a plate (top mounting only) using the (4) M4 screws. (5) G1/8 plugs also included.



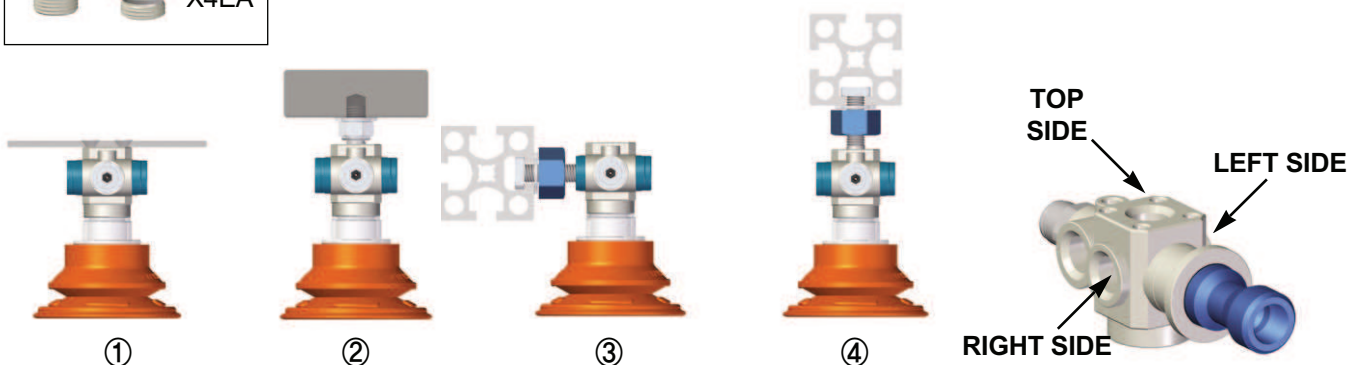
▶ Option “M” - M8 Male Mounting exm. ②

Mount using M8 male fixed at factory in one of 3 specified positions (top, right, left). (4) G1/8 plugs are included. Left and right side mounting provides a lower profile vs. top mounting.



▶ Option “P” - T - Slot Frame Mounting exm. ③, ④

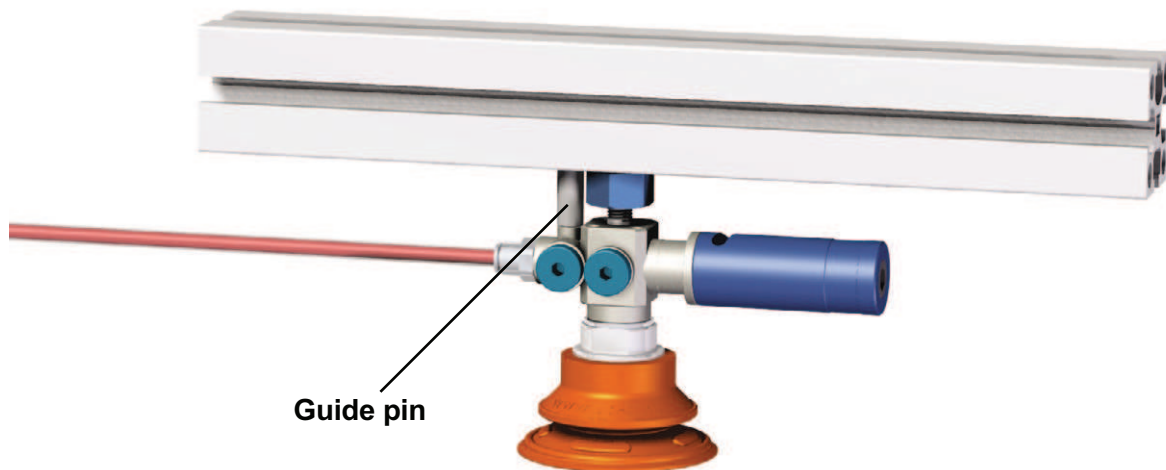
Mount to appropriate t-slot frame in one of (3) positions (top, right, left) using (1) M8 27mm or (1) M6 22mm screw as specified with supplied nut and washers. (4) G1/8 plugs are included. Optional non-return valve is available.”



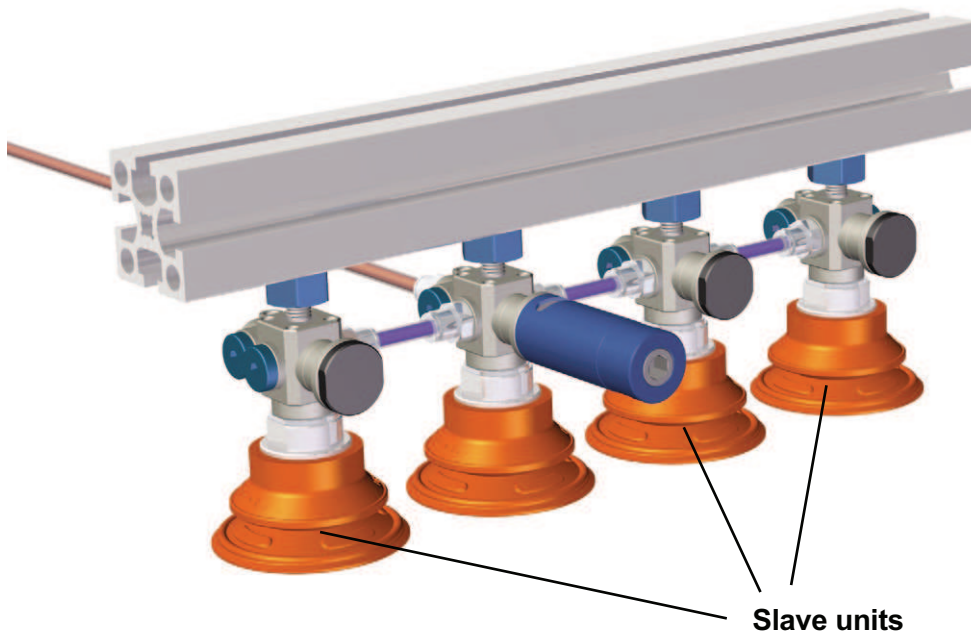
VSM Example

 Compressed air

 Vacuum



- ▲ To prevent the Vacuum Speeder from rotating when mounted in the top position use a guide pin inserted into the M5 port on the top of the VSM and extended into the t-frame slot.

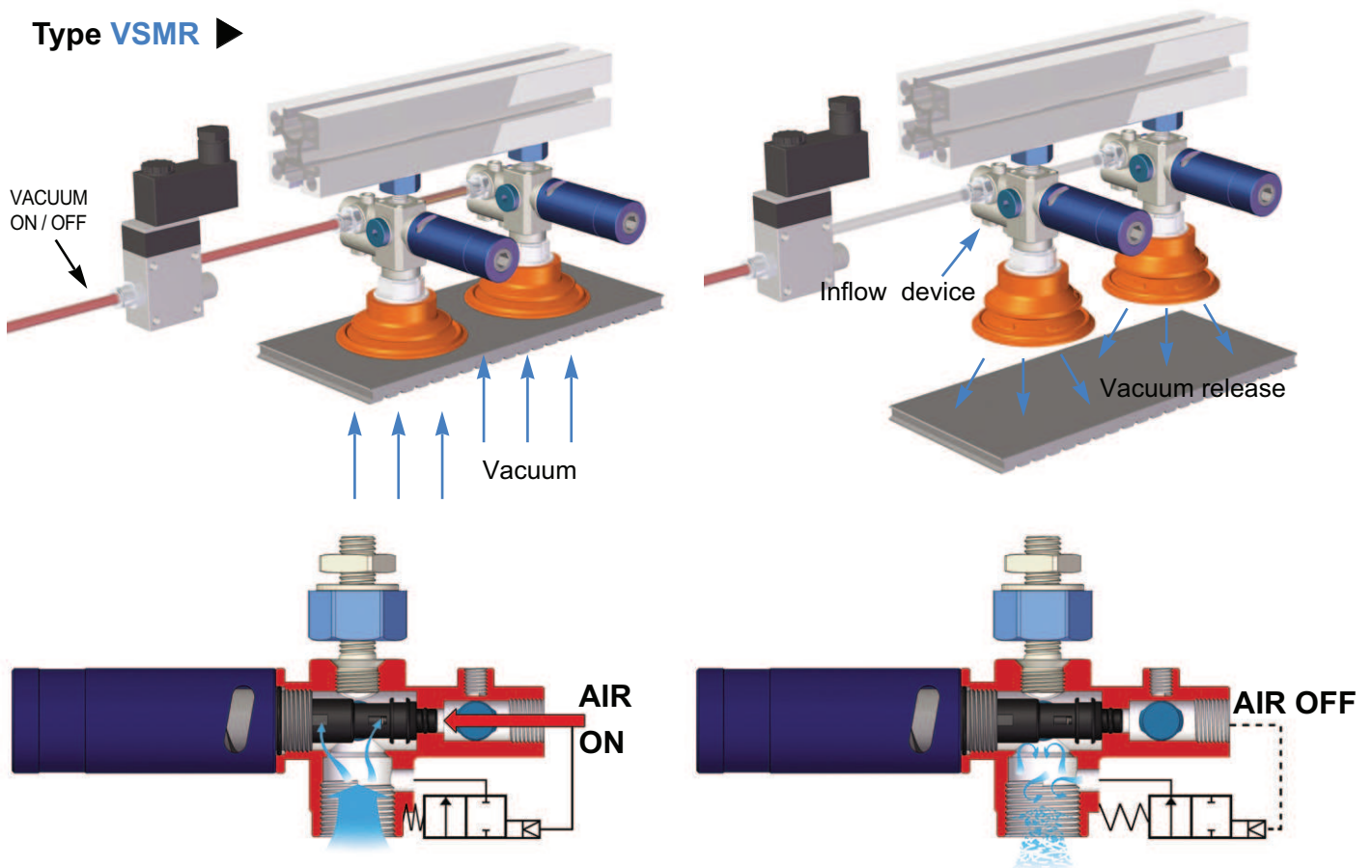


- ▲ Use a VSM (Vacuum Speeder) as a slave unit with vacuum supplied by another VSM in sealed applications or in applications where quick response time is not required.

Example

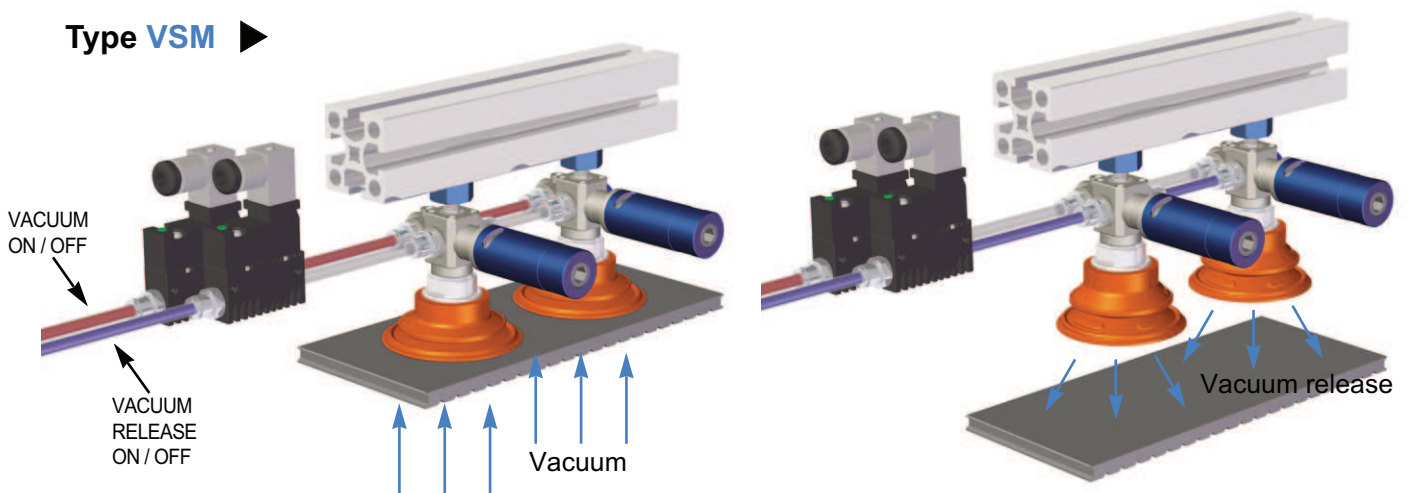
• VACUUM RELEASE

Type VSMR ▶



▲ Automatic faster release (blow-off) by inflow device of outside air is available **without any release control valve or line.** (Type VSMR / Patent pending)

Type VSM ▶



▲ Faster release (blow-off) and efficient cleaning of suction cup filters can be achieved by adding controlled compressed air to extra vacuum ports.

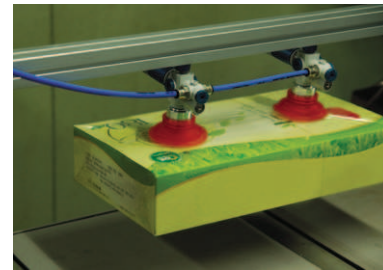
Series VSMR..

- Max. vacuum level : -90kPa (-26.57 inHg)
- Max. flow rate : 85.8 NI/min (3.03 scfm)
- Supply air pressure : 3~6 bar, max 7 bar
(43.5~87psi, max 101.5psi)
- Air consumption : 20~32 NI/min (0.7~1.13 scfm)
- Supply air type : Dry compressed air
- Working temperature : -20°C ~ +80°C
- Noise level : 55~65 dBA



Main advantages

- Efficient individual and independent point-of-use vacuum.
- Extremely quick response.
- Multiple connection ports available
- Quick release system without release control valve.
- Maintains vacuum despite fluctuations and drops in air pressure.
- VMECA TWOFOLD SILENCER^{PT} assures low noise levels.
(about 30% lower than conventional silencer)



Order No.

VSMR 203 - PT8..VBF80 PU - 38M

① ②

▲ See pages 83-97

① Vacuum cartridge

- **203** - Vacuum cartridge VC203
incl. twofold silencer



- 202 - Vacuum cartridge VC202
incl. holding plug



② Mount and mounting position

- F - 4x screw M4 top, 5x plug G1/8" (direct mount)



- MT8 - M8 16mm screw top, 4x plug G1/8" incl. mounting kit

- ML8 - M8 16mm screw left, 4x plug G1/8" incl. mounting kit

- MR8 - M8 16mm screw right, 4x plug G1/8" incl. mounting kit



- **PT8** - M8 27mm screw top, 4x plug G1/8" incl. profile kit with jam nut

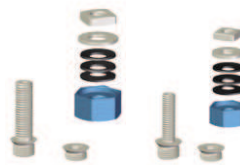
- PL8 - M8 27mm screw left, 4x plug G1/8" incl. profile kit with jam nut

- PR8 - M8 27mm screw right, 4x plug G1/8" incl. profile kit with jam nut

- PT6 - M6 22mm screw top, 4x plug G1/8" incl. profile kit with jam nut

- PL6 - M6 22mm screw left, 4x plug G1/8" incl. profile kit with jam nut

- PR6 - M6 22mm screw right, 4x plug G1/8" incl. profile kit with jam nut



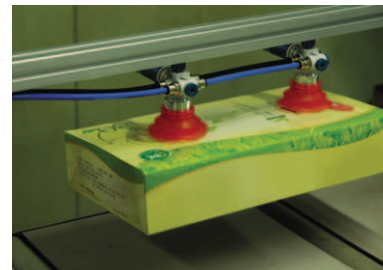
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(about 30% lower than conventional silencer)



Order No.

VSM 203 - PT8..VBF80 PU - 38M

①

②

▲ See pages 83-97

① Vacuum cartridge

203 - Vacuum cartridge VC203
incl. twofold silencer



203 N - Vacuum cartridge VC203 with non-return valve
incl. twofold silencer

- 202 - Vacuum cartridge VC202
incl. holding plug



202 N - Vacuum cartridge VC202 with non-return valve
incl. holding plug

020 - No vacuum cartridge (slave unit)



② Mount and mounting position

F - 4x screw M4 top, 5x plug G1/8" (direct mount)



MT8 - M8 16mm screw top, 4x plug G1/8" incl. mounting kit

ML8 - M8 16mm screw left, 4x plug G1/8" incl. mounting kit

MR8 - M8 16mm screw right, 4x plug G1/8" incl. mounting kit



- PT8 - M8 27mm screw top, 4x plug G1/8" incl. profile kit with jam nut

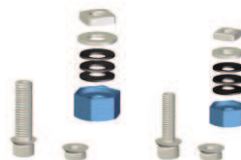
PL8 - M8 27mm screw left, 4x plug G1/8" incl. profile kit with jam nut

PR8 - M8 27mm screw right, 4x plug G1/8" incl. profile kit with jam nut

PT6 - M6 22mm screw top, 4x plug G1/8" incl. profile kit with jam nut

PL6 - M6 22mm screw left, 4x plug G1/8" incl. profile kit with jam nut

PR6 - M6 22mm screw right, 4x plug G1/8" incl. profile kit with jam nut

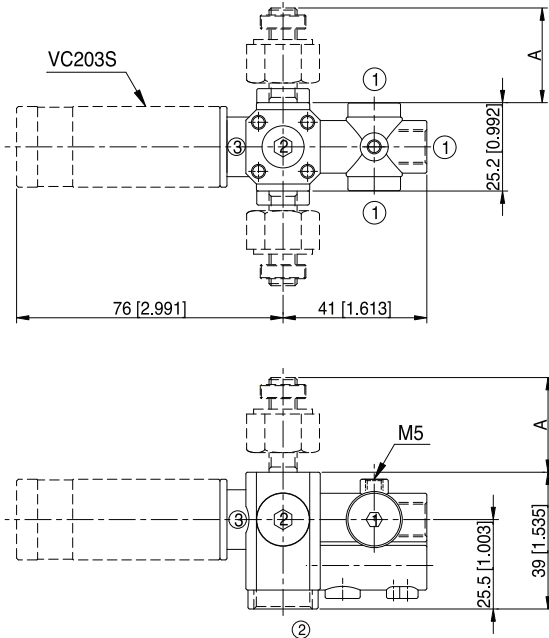


Technical Data

Model	Feed pressure (MPa)	Air consumption (Nl/m)	Max. Vacuum level (-kPa)	Suction cup	Time, s/l, evacuate a volume to different vacuum level	
					-20 kPa	-60 kPa
VSMR 203.. VSM 203..	0.314	26	90	VB 30..	0.05	0.09
				VB40..	0.06	0.1
				VB50..	0.07	0.12
				VB75 (B)..	0.15	0.22
				VBF 30..	0.05	0.08
				VBF 40..	0.05	0.09
				VBF 50..	0.06	0.1
				VBF 60..	0.08	0.12
				VBF 80..	0.14	0.18
				VBF 100..	0.17	0.2
				VBL 30..	0.05	0.09
				VBL 40..	0.08	0.12
				VBL 50..	0.1	0.14
				VF 30..	0.04	0.07
				VF 40..	0.04	0.07
				VF 50..	0.05	0.08
				VF 75..	0.06	0.11
				VF 90..	0.07	0.12
				VF 110..	0.11	0.17
				VFC 50..	0.05	0.09
				VFC 60..	0.06	0.11
				VFC 75..	0.08	0.13
				VFC 90..	0.11	0.18
				VFC 100..	0.13	0.2
				VOU 15X45..	0.04	0.07
				VOU 20X60..	0.05	0.08
VOC 35X90..	0.06	0.11				
VOC 35X110..	0.07	0.13				
VOC 60X140..	0.13	0.15				
VOC 60X180..	0.16	0.18				
VSMR 202.. VSM 202..	0.314	26	90	VB 30..	0.06	0.09
				VB 40..	0.07	0.1
				VB 50..	0.08	0.13
				VB 75 (B)..	0.17	0.25
				VBF 30..	0.05	0.08
				VBF 40..	0.05	0.09
				VBF 50..	0.06	0.11
				VBF 60..	0.08	0.13
				VBF 80..	0.16	0.21
				VBF 100..	0.2	0.26
				VBL 30..	0.06	0.1
				VBL 40..	0.08	0.13
				VBL 50..	0.1	0.16
				VF 30..	0.04	0.07
				VF 40..	0.04	0.08
				VF 50..	0.05	0.09
				VF 75..	0.06	0.11
				VF 90..	0.07	0.12
				VF 110..	0.12	0.19
				VFC 50..	0.05	0.09
				VFC 60..	0.06	0.12
				VFC 75..	0.09	0.14
				VFC 90..	0.11	0.2
				VFC 100..	0.14	0.21
				VOU 15X45..	0.04	0.07
				VOU 20X60..	0.05	0.08
VOC 35X90..	0.06	0.12				
VOC 35X110..	0.07	0.14				
VOC 60X140..	0.15	0.2				
VOC 60X180..	0.17	0.22				

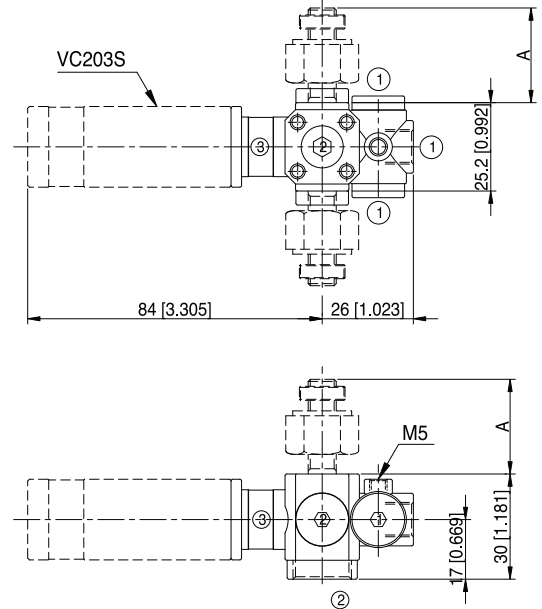
Dimension

▼ VSMR 203..



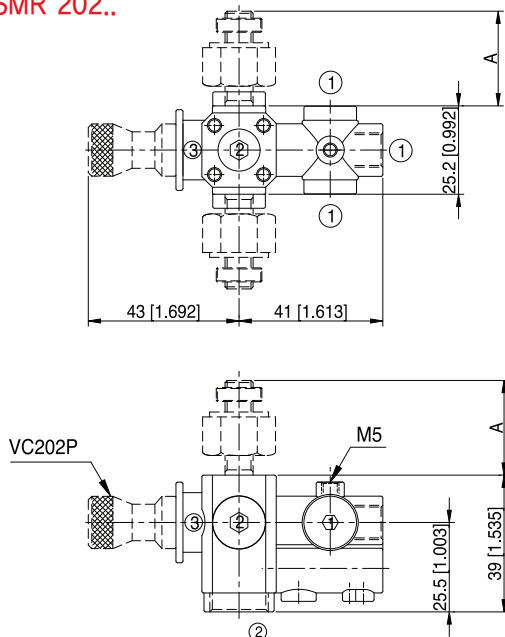
Measure unit : mm [inch]

▼ VSM 203..



Mounting	A	
M□8	16	1. Compressed air : 3 x G1/8"
P□8	27	2. Vacuum : 1 x G3/8" and 3 x G1/8"
P□6	22	3. Exhaust

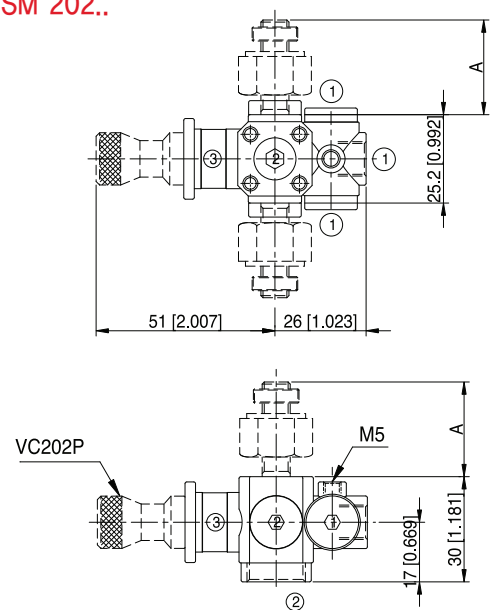
▼ VSMR 202..



Measure unit : mm [inch]

☞ Refer to page 83~97 about dimension of suction cups.

▼ VSM 202..



Mounting	A	
M□8	16	1. Compressed air : 3 x G1/8"
P□8	27	2. Vacuum : 1 x G3/8" and 3 x G1/8"
P□6	22	3. Exhaust

How to select Suction cup



Suction cup	Shape			Requirements							
	Flat	Slightly surface	Concave surface	Smooth surface	Uneven surface	Varying surface levels	Thin flexible materials	Good stability	Safety	Parallel lift	Opening plastic bag
VB	★★	★★★★		★★★★		★★★★	★★★★	★	★★★★	★	★★
VPF	★★★★	★★★★	★	★★★★		★★★★	★★★★	★★★★	★★★★	★★★★	
VBL	★★	★★★★		★★★★		★★★★	★★★★		★★		
VF	★★★★			★★★★				★★★★	★★★★	★★★★	
VFC	★★★★	★★★★		★★★★	★			★★★★	★★★★	★★★★	★
VOU	★★★★	★★	★★	★★★★				★★	★★	★	
VOC	★★★★	★★★★		★★★★		★		★★★★	★★★★	★★★★	

★★★★ Excellent ★★ Very good ★ good



Slightly curved surface
VB model

▶ See page 84

Transferring to parallel
VF, VFC model

▶ See page 90, 92

Thin flexible material
VBL model

▶ See page 88

Long convex or flat
VOU model

▶ See page 94

Sheet metal
VPF model

▶ See page 86

Long flat
VOC model

▶ See page 96

Material and characteristic of suction cup

Material	Durability	Temperature	Oil Resistance	Weather & Ozone
N - NBR	Excellent	-20°C ~ +110°C	Excellent	Very Good
S - Silicon, WS-White Silicon	Good	-70°C ~ +200°C	Unsuitable	Excellent
HS-High Temp. Silicon	Good	-70°C ~ +280°C	Unsuitable	Excellent
C.S - Conducive(Special mat'l)	Excellent	-45°C ~ +90°C	Excellent	Very Good
U - Urethane	Excellent	0°C ~ +100°C	Excellent	Excellent
A - Mark free	Excellent	-10°C ~ +100°C	Excellent	Very Good
PU - Poly Unethane	Excellent	0°C ~ +60°C	Excellent	Excellent
E - EPDM	Very Good	0°C ~ +150°C	Unsuitable	Excellent

• SUCTION CUPS FOR VACUUM SPEEDER

VB Type (Bellows)

Features and Strengths

Particularly good for use on curved surfaces and for separating thin sheets of materials in stacks. The bellows cup is very good at compensating for a degree of difference in level and curvature of the work piece, more angular and level compensation can be achieved by using other **Vtec** pad accessories.



Suitable for Handling

- Sheet Veneer
- Plastic sheets
- Paper Box Handling
- Thin Film sheets
- Cardboard Boxes and Electronic Components

Order No.

VSMR 203 - PT8 .. **VB50** **PU** **F** - **38M**

▲ See pages 79, 80

①

②

③

④

① Suction cup Ø

VB30	- Ø30
VB40	- Ø40
• VB50	- Ø50
VB75	- Ø75
VB75B	- Ø75

② Material

N	- NBR
S	- Silicon
WS	- White Silicon
HS	- High Temp. Silicon
CS	- Conductive (Special mat'l)
U	- Urethane
A	- Mark free
• PU*	- Poly Urethane
WPU*	- Poly Urethane (Minimal mark)

* Only for VB30, VB40, VB50, VB75

③ Filter

No mark	- Standard
• F	- With Filter(PE) VB30,VB40,VB50 VB75,VB110

④ Thread size

• 38M	- G3/8" male
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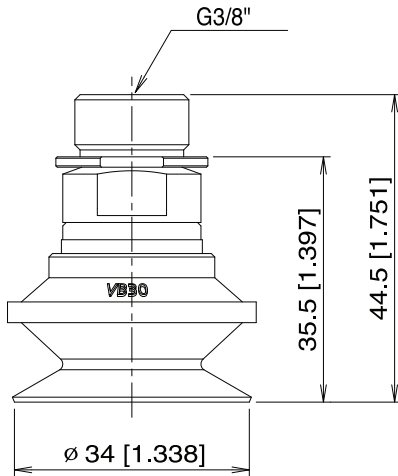
* Remark : Including mesh filter

Technical Data

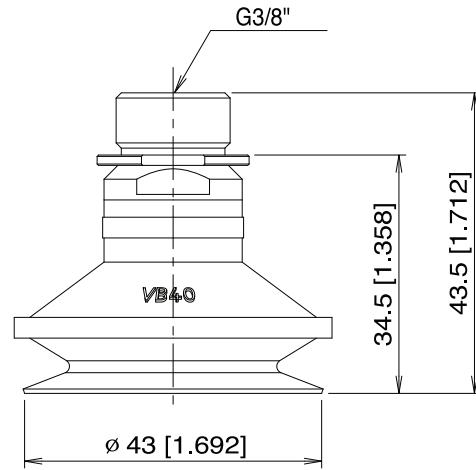
Cup Ø	Air consumption at 0.3 MPa	Lifting Force (kg) - Perpendicular		
		-20 kPa	-60 kPa	-90 kPa
VB30	26 NI/m (0,918 scfm)	1,22	2,24	2,75
VB40		2,24	3,97	5
VB50		3,36	6,63	8,36
VB75(B)		7,65	17,04	23,06

Dimension

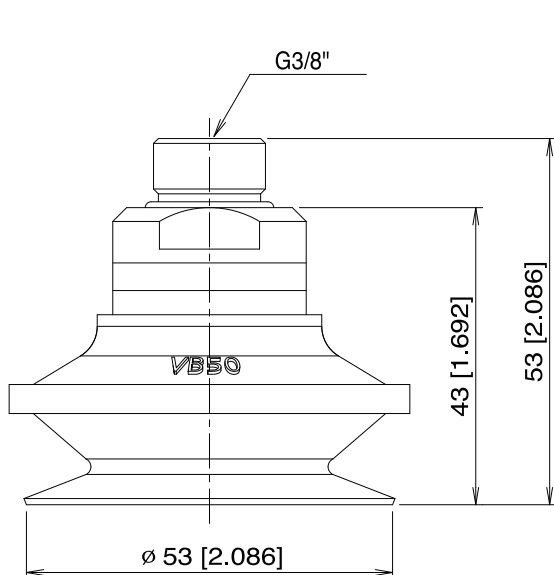
☞ Refer to page 82 about dimension of Vacuum Speeder.



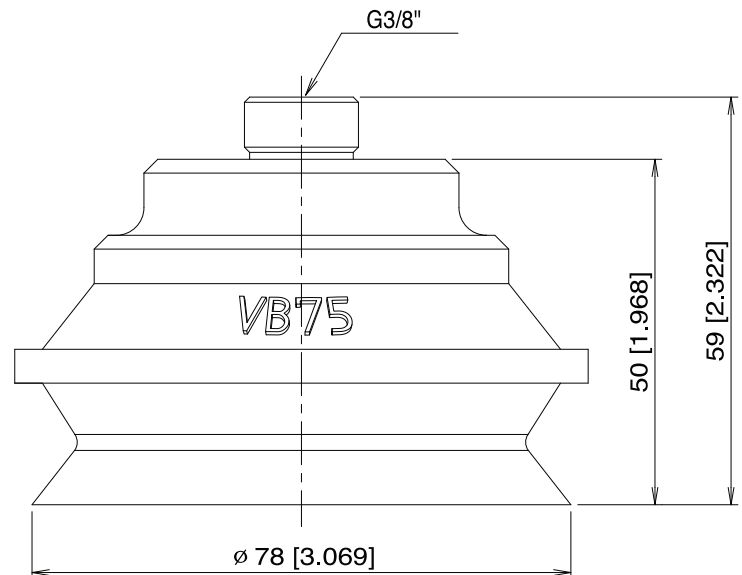
VB30..38M



VB40..38M



VB50..38M



VB75..38M

Measure unit : mm [inch]

VACUUM SPEEDER

• SUCTION CUPS FOR VACUUM SPEEDER VBF Type (Bellows & Flat)

Features and Strengths

- Enhancing the adhesion to the surface
- Good lifting force can be achieved with this pad in the vertical plane
- Prevent transformation when lifting metal thin plate



Suitable for Handling

- Veneer sheets
- Sheet metal
- Automotive panels and door
- Plywood
- Glass

Order No.

VSMR 203 - PT8 .. **VBF80** **PU** **F** - **38M**

▲ See pages 79, 80

① ② ③ ④

① Suction cup Ø

VBL25	- Ø25
VBF30	- Ø32
VBF40	- Ø42
VBF50	- Ø51
VBF60	- Ø64
• VBF80	- Ø84
VBF100	- Ø103

② Material

- **PU** - Poly Urethane
- WPU - Poly Urethane (Minimal mark)

③ Filter

- No mark - Standard
- **F** - With Filter(PE)
VBF60, VBF80
VBF100

④ Thread size

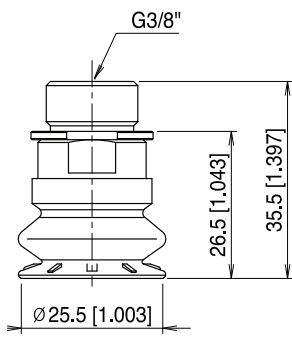
- **38M** - G3/8" male
- * Remark : Including mesh filter

Technical Data

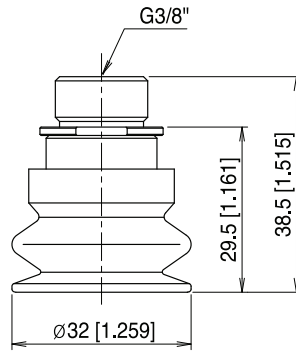
Cup Ø	Air consumption at 0.3 MPa	Lifting Force (kg) - Perpendicular			Lifting Force (kg) - Parallel		
		-20 kPa	-60 kPa	-90 kPa	-20 kPa	-60 kPa	-90 kPa
VBF 25	26 NI/m (0,918 scfm)	1,1	3,2	3,8	0,61	1,37	1,89
VBF 30		1,77	6,26	9,5	0,86	3,08	7,71
VBF 40		2,49	9,66	12,8	1,17	6,48	11,29
VBF 50		4,2	13,2	16,3	2,08	9,79	14,7
VBF 60		8,94	16,26	18,54	6,84	12,84	16,92
VBF 80		11,92	21,68	24,72	9,12	17,12	22,56
VBF 100		14,9	27,1	30,9	11,4	21,4	28,2

Dimension

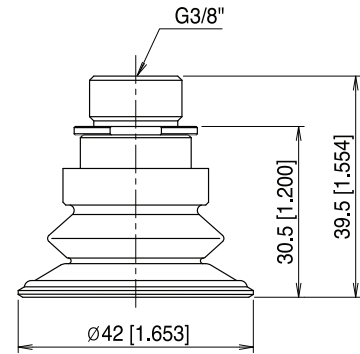
Refer to page 82 about dimension of Vacuum Speeder.



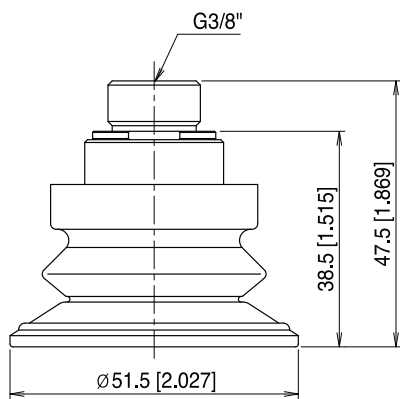
VBF25 P(U) - 38M



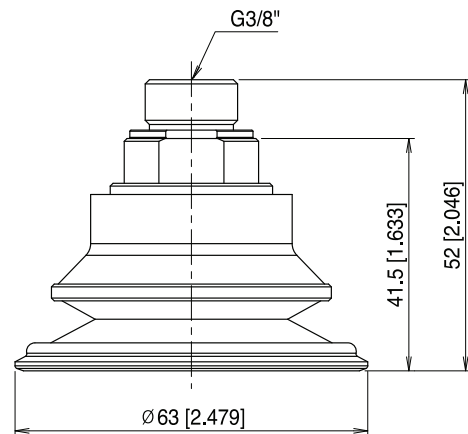
VBF30 P(U) - 38M



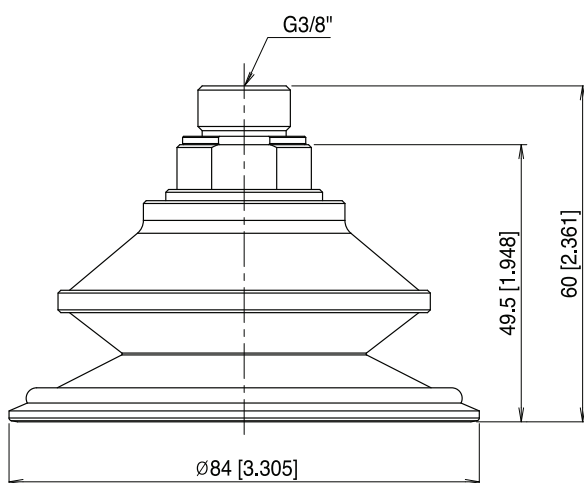
VBF30 P(U) - 38M



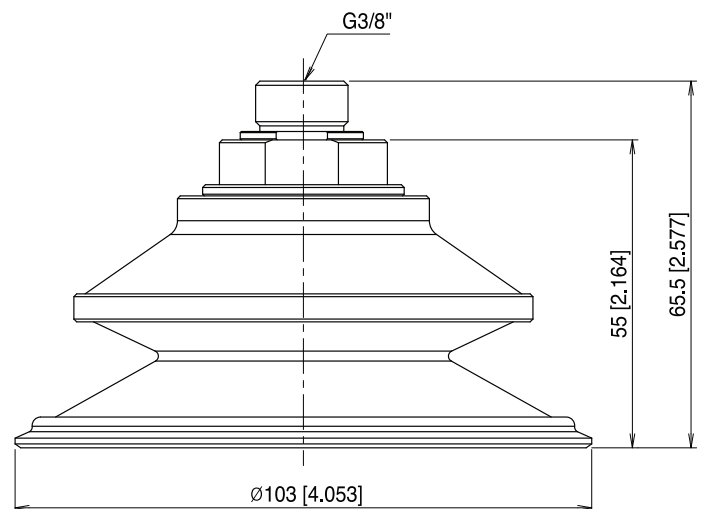
VBF50 P(U) - 38M



VBF60 P(U) - 38M



VBF80 P(U) - 38M



VBF100 P(U) - 38M

Measure unit : mm [inch]

VACUUM
SPEEDER

• SUCTION CUPS FOR VACUUM SPEEDER VBL Type (Long Bellows)

Features and Strengths

Similar advantages to that of the normal bellows cups but can cope with an increased degree of height compensation and is particularly good for handling fragile objects.

A note of caution, these cups are not suitable for high level vacuum applications.



Suitable for Handling

- Fragile Objects
- Eggs
- General Food Products
- Bread
- Glass

Order No.

VSMR 203 - PT8 .. **VBL50** **N** **F** - **38M**

▲ See pages 79, 80

①

②

③

④

① Suction cup Ø

VBL30 - Ø30

VBL40 - Ø40

- **VBL50** - Ø50

② Material

- **N** - NBR

S - Silicon

WS - White Silicon

HS - High Temp. Silicon

CS - Conductive (Special mat'l)

U - Urethane

A - Mark free

③ Filter

No mark - Standard

- **F** - With Filter(PE)
VBL30, VBL40
VBL50

④ Thread size

- **38M** - G3/8" male

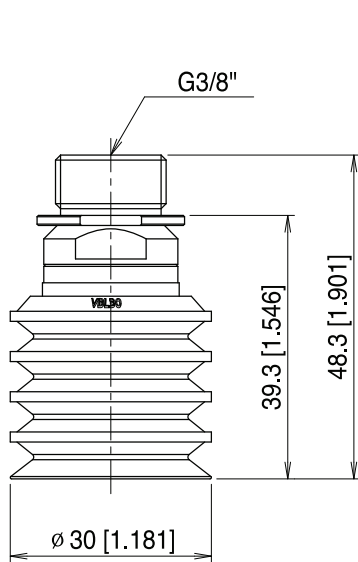
* Remark : Including mesh filter

Technical Data

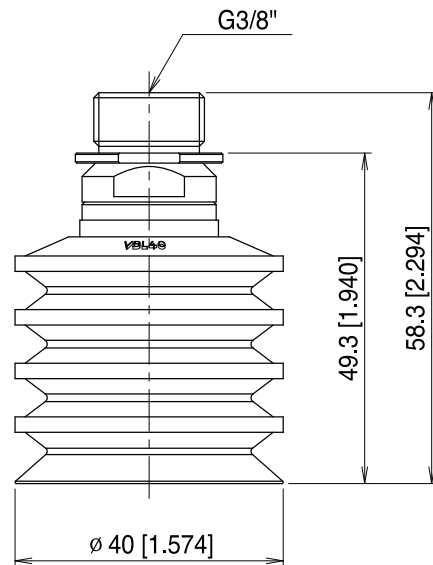
Cup Ø	Air consumption at 0.3 MPa	Lifting Force (kg) - Perpendicular		
		-20 kPa	-60 kPa	-90 kPa
VBL30	26 Nl/m (0,918 scfm)	0,06	0,16	-
VBL40		0,11	0,22	-
VBL50		0,17	0,43	-

Dimension

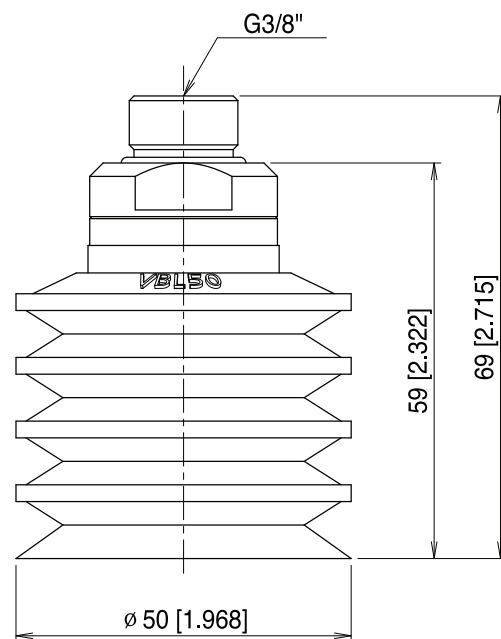
Refer to page 82 about dimension of Vacuum Speeder.



VBL30..38M



VBL40..38M



VBL50..38M

Measure unit : mm [inch]

VACUUM
SPEEDER

• SUCTION CUPS FOR VACUUM SPEEDER

VF Type (Flat)

Features and Strengths

Again good lifting forces can be achieved with this cup in the horizontal plane, but is also good in the vertical plane.

The feet inside the pad provide a good register as well as enhancing the adhesion to the surface.



Suitable for Handling

- Sheet metal
- Plastic
- Veneer sheets
- Electronic components

Order No.

VSMR 203 - PT8 .. VF 75 PU - 38M

▲ See pages 79, 80

①

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① Suction cup Ø

VF30	- Ø30
VF40	- Ø40
VF50	- Ø50
• VF75	- Ø75
VF90*	- Ø90*
VF110	- Ø110

* Only PU material

② Material

N	- NBR
S	- Silicon
WS	- White Silicon
HS	- High Temp. Silicon
CS	- Conductive (Special mat'l)
U	- Urethane
A	- Mark free
• PU	- Poly Urethane*
WPU	- Poly Urethane (Minimal mark)*

* Only for VF30, VF40, VF50, VF75, VF90

③ Thread size

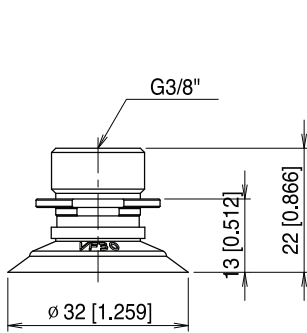
- **38M** - G3/8" male
- * Remark : Including mesh filter

Technical Data

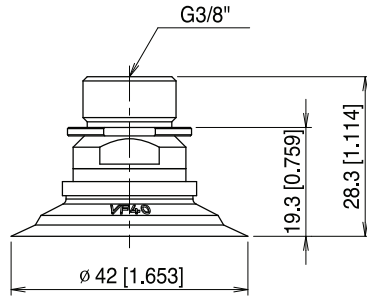
Cup Ø	Air consumption at 0.3MPa	Lifting Force (kg) - Perpendicular			Lifting Force (kg) - Parallel		
		-20 kPa	-60 kPa	-90 kPa	-20 kPa	-60 kPa	-90 kPa
VF30	26 NI/m (0,918 scfm)	1,22	2,55	3,16	1,12	1,63	2,04
VF40		2,04	4,08	5,10	1,53	2,55	3,06
VF50		3,67	7,55	9,79	2,44	4,08	5,10
VF75		8,16	20,40	27,55	6,12	11,22	14,28
VF90		10,2	27,83	37,41	8,84	15,98	19,72
VF110		14,28	42,58	57,14	14,28	25,51	30,61

Dimension

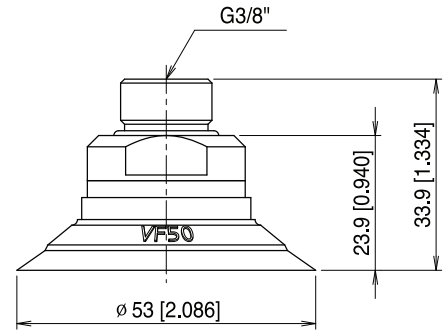
Refer to page 82 about dimension of Vacuum Speeder.



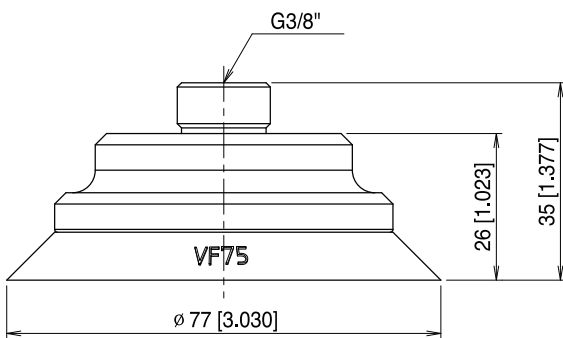
VF30..38M



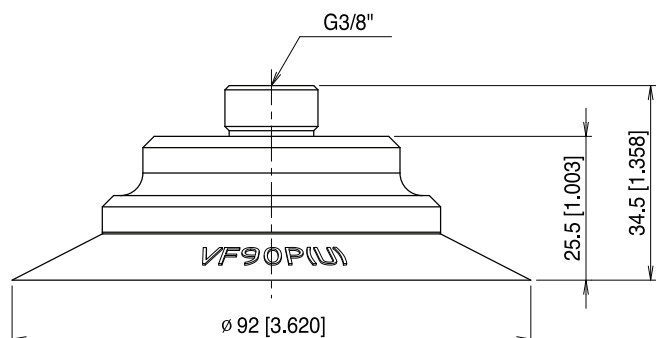
VF40..38M



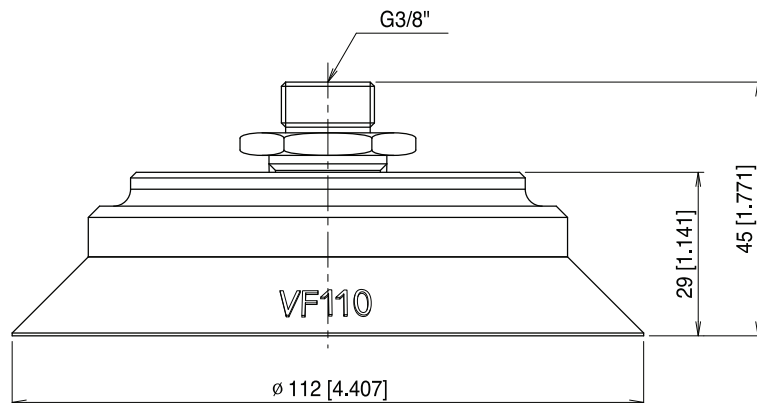
VF50..38M



VF75..38M



VF90 P(U)..38M



VF110..38M

Measure unit : mm [inch]

VACUUM SPEEDER

• SUCTION CUPS FOR VACUUM SPEEDER

VFC Type (Flat Curve)

Features and Strengths

This cup is specifically designed to cope with both flat and curved surfaces, which means that multiple objects can be handled with the same suction cup.



Suitable for Handling

- Automotive Windscreens, Roof and Door.
- Sheet Metal
- Shaped Sheet Metal Panels
- TV Cathodray Tube

Order No.

VSMR 203 - PT8 .. VFC 50 PU - 38M

▲ See pages 79, 80

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① Suction cup Ø

- **VFC50** – Ø50
- VFC60 – Ø60
- VFC75 – Ø75
- VFC90 – Ø90*
- VFC100 – Ø100

* Only for PU Material

② Material

- N – NBR
- S – Silicon
- WS – White Silicon
- HS – High Temp. Silicon
- CS – Conductive (Special mat'l)
- U – Urethane
- A – Mark free
- **PU** – Poly Urethane
- WPU – Poly Urethane (Minimal mark)

③ Thread size

- **38M** – G3/8" male

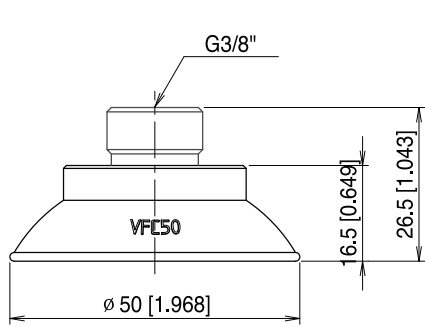
* Remark : Including mesh filter

Technical Data

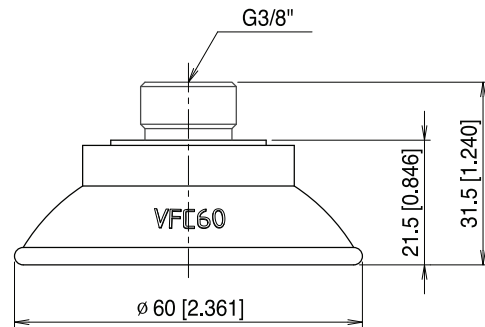
Cup Ø	Air consumption at 0.3MPa	Lifting Force (kg) – Perpendicular			Lifting Force (kg) – Parallel		
		-20 kPa	-60 kPa	-90 kPa	-20 kPa	-60 kPa	-90 kPa
VFC50	26 NI/m (0.918 scfm)	2,85	6,94	10,2	2,61	6,34	8,2
VFC60		4,55	11,57	15,3	3,05	7,92	10,7
VFC75		7,65	19,38	25,51	6,19	15,46	20,9
VFC90		9,8	24,82	32,65	9,52	21,59	27,89
VFC100		12,75	35,71	46,93	12,24	23,97	28,57

Dimension

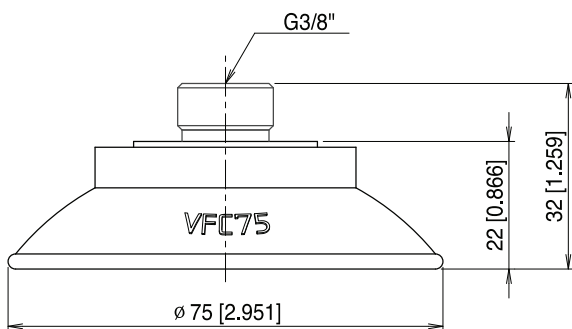
Refer to page 82 about dimension of Vacuum Speeder.



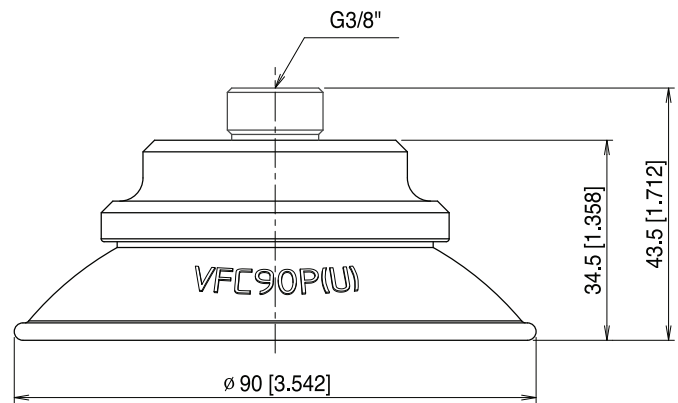
VFC50..38M



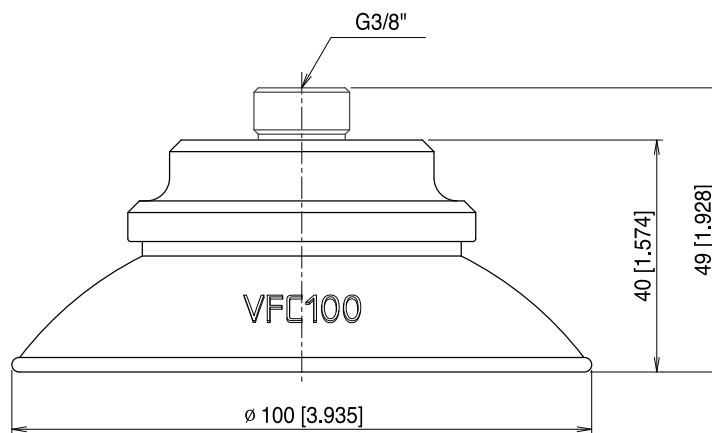
VFC60..38M



VFC75..38M



VFC90 P(U)..38M



VFC100..38M

Measure unit : mm [inch]

VACUUM
SPEEDER

• SUCTION CUPS FOR VACUUM SPEEDER VOU Type (Oval Universal)

Features and Strengths

- Best sitalbe for handling long objects with flat and curved surfaces
- Good lifting forces can be achieved with small size
- Conductive silcon is excellent for handling PCB board or Electronic componets
- Easily mountable without detach a fitting from the machine (save the maintenance time)



Suitable for Handling

- Semiconductor chips (PCB board)
- Electronic components
- Small glass cases (e.g.ampule)
- Pipe

Order No.

VSMR 203 - PT8 .. VOU 20X60 N F - 38M

▲ See pages 79, 80

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① Suction cup Ø

VOU 15X45

- VOU 20X60

② Material

- N – NBR

S – Silicon

WS – White Silicon

HS – High Temp. Silicon

③ Filter

- F – With mesh filter

* Required option

④ Thread size

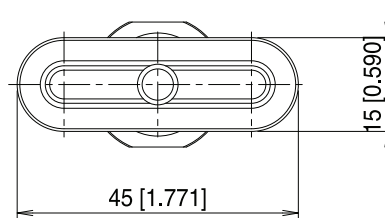
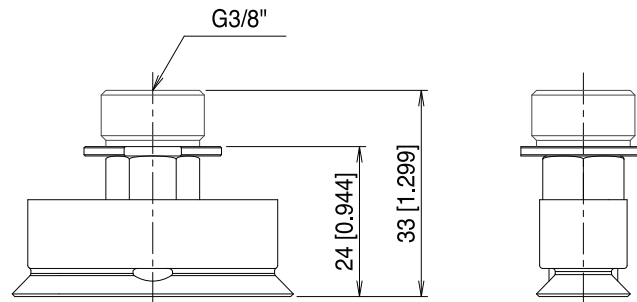
- 38M – G3/8" male

Technical Data

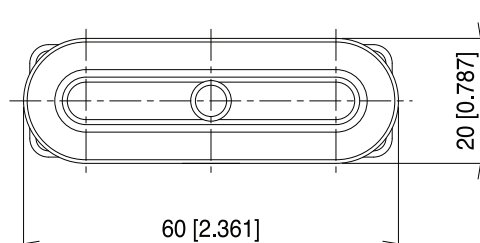
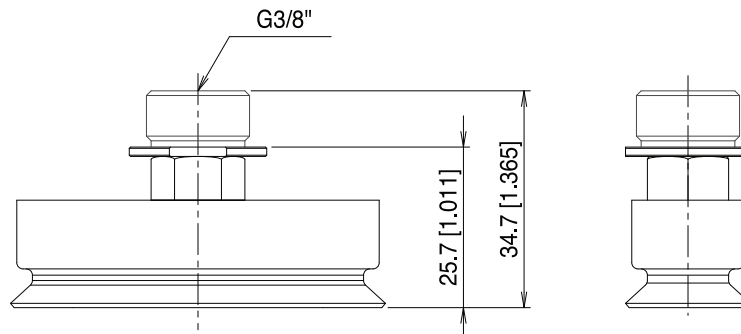
Cup Ø	Air consumption at 0.3MPa	Lifting Force (kg) – Perpendicular		
		-20 kPa	-60 kPa	-90 kPa
VOU 15X45	26 NI/m	1	2.08	3.27
VOU 20X60	(0,918 scfm)	2,04	4,8	6,35

Dimension

☞ Refer to page 82 about dimension of Vacuum Speeder.



VOU 15X45..38M



VOU 20X60..38M

Measure unit : mm [inch]

• SUCTION CUPS FOR VACUUM SPEEDER VOC Type (Oval Curve)

Features and Strengths

This cup is best suitable for handling long objects with flat or curved surfaces. Specially, parallel to the surface of the object it has a thick and durable lip.



Suitable for Handling

- Long Objects with Flat
- Curved Surfaces
- Shaped Sheet Metal Panels
- Automotive Bumper

Order No.

VSMR 203 - PT8 .. VOC 35X 90 N - 38M

▲ See pages 79, 80

①

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① Suction cup Ø

- **VOC 35X90** – Ø35X90
- VOC 35X110 – Ø35X110
- VOC 60X140 – Ø60X140
- VOC 60X180 – Ø60X180

② Material

- **N** – NBR
- S – Silicon
- WS – White Silicon
- HS – High Temp. Silicon
- CS – Conductive (Special mat'l)
- U – Urethane
- A – Mark free

③ Thread size

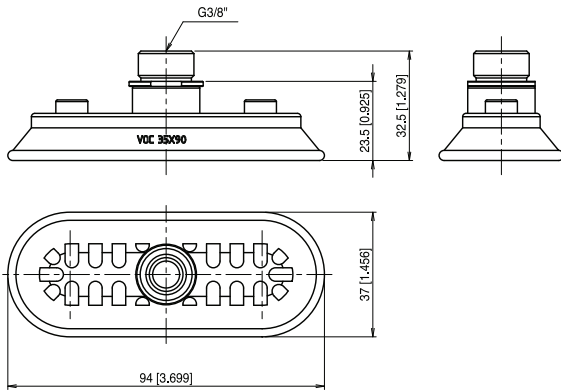
- **38M** – G3/8" male
- * Remark : Including mesh filter

Technical Data

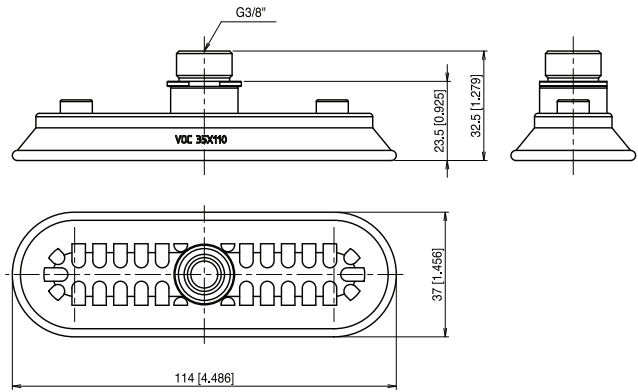
Cup Ø	Air consumption at 0.3MPa	Lifting Force (kg) – Perpendicular			Lifting Force (kg) – Parallel		
		-20 kPa	-60 kPa	-90 kPa	-20 kPa	-60 kPa	-90 kPa
VOC 35X90	26 NI/m (0,918 scfm)	5	13,4	17,4	4	10,72	13,92
VOC 35X110		6,25	16,7	21,7	5	13,36	17,36
VOC 60X140		13,4	38	53	10,72	30,4	42,4
VOC 60X180		19,1	54,2	75,7	15,28	43,36	60,56

Dimension

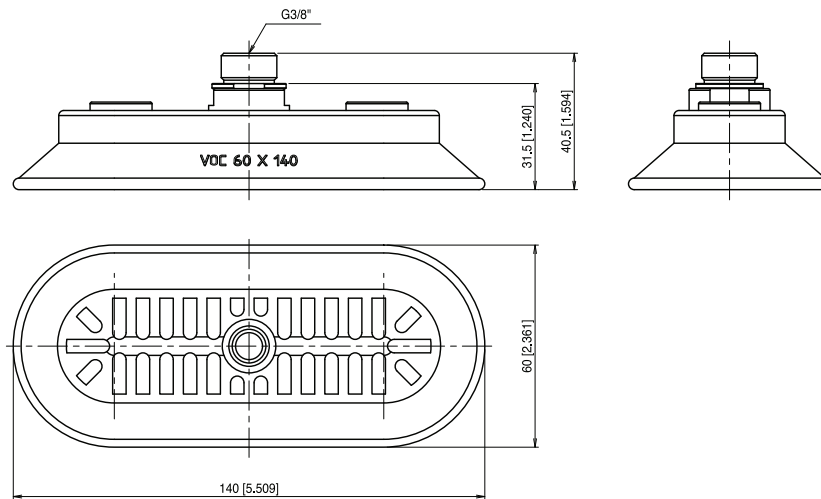
☞ Refer to page 82 about dimension of Vacuum Speeder.



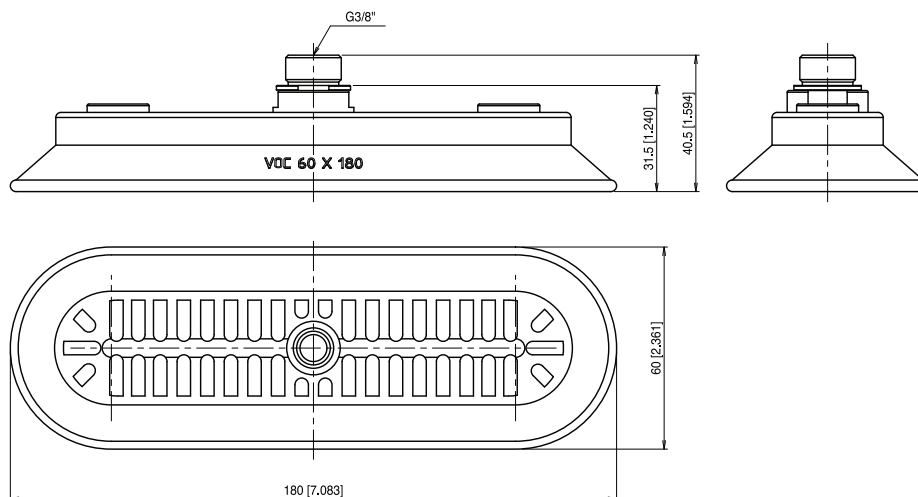
VOC 35X90..38M



VOC 35X110..38M



VOC 60 X140..38M



VOC 60X180..38M

Measure unit : mm [inch]

VACUUM
SPEEDER

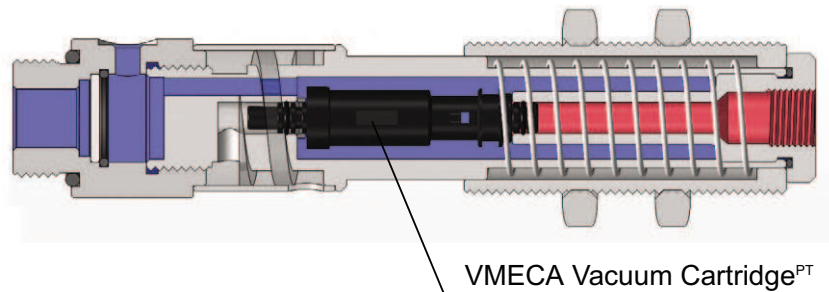
Series VCS 202..

- Max. vacuum level** : -90kPa (-26.57 inHg)
- Max. flow rate** : 41.3 NI/min (1.45 scfm)
- Supply air pressure** : 4~6 bar, max 7 bar
(58~87psi, max 101.5psi)
- Air consumption** : 416 NI/min (14.6 scfm)
- Supply air type** : Dry compressed air
- Working temperature** : -20°C ~ +80°C
- Noise level** : 55~65 dBA



Main advantages

- VMECA Cartridge^{PT} with silencer built into level compensator.
- High operational reliability despite fluctuating or low compressed-air pressure.
- Low air consumption (Save energy)
- Compensate for differences in height on the surface of the material.
- VMECA Vacuum Cartridge mounted close to work (Fast response time).
- Very Compact size.
- Easily mountable and interchangeable vacuum cartridge.



Order No.

VCS 202 - 18M 20

① ②

① Thread

- 18M – G1/8" Male
- 38M – G3/8" Male
- 12M – G1/2" Male

② Stroke

- 20 – 20mm

Performance Data

Vacuum flow, NI/m, at different vacuum level -kPa

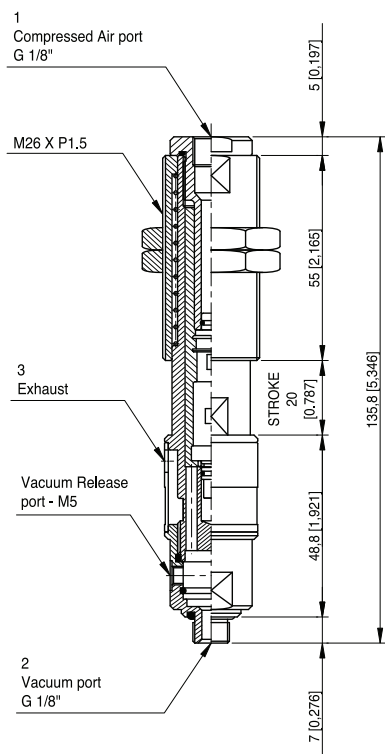
MAX. Vacuum (-kPa)	Feed pressure (MPa)	0	10	20	30	40	50	60	70	80	90
50	0.17	35	25.4	12.8	8.3	4	-	-	-	-	-
65	0.22	38.8	29.5	17	11.5	8	5.2	1.4	-	-	-
90	0.314	41.3	36.9	26	15.8	11	8.9	6.6	3.9	2	-
85	0.4	40	42.7	31	23	14.1	7.6	6.4	3.9	1.3	-

Time, s/l, to evacuate a volume to different vacuum level -kPa

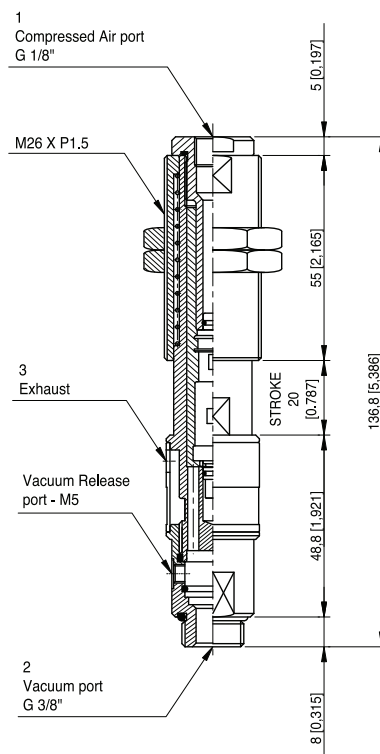
Feed pressure (MPa)	Air consumption (NI/m)	10	20	30	40	50	60	70	80	90
0.17	17	0.26	0.59	1.29	2.56	-	-	-	-	-
0.22	20	0.18	0.48	0.95	1.55	2	2.5	-	-	-
0.314	26	0.15	0.37	0.61	1.5	1.5	2	3.8	6.2	-
0.4	32	0.14	0.39	0.59	0.9	1.2	1.8	3.2	6.9	-

Dimensional information

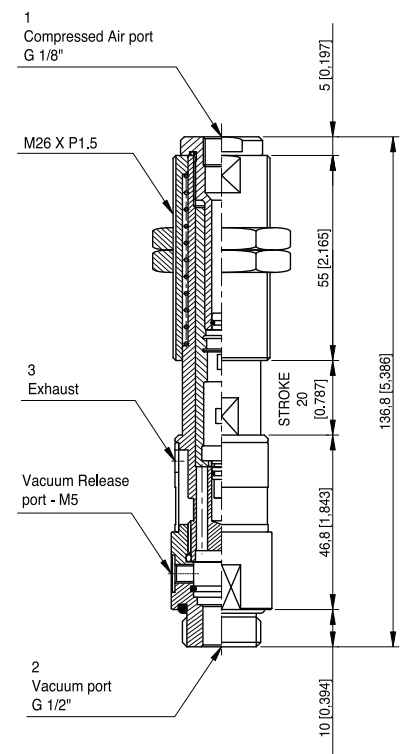
▼ VCS202-18M20



▼ VCS202-38M20



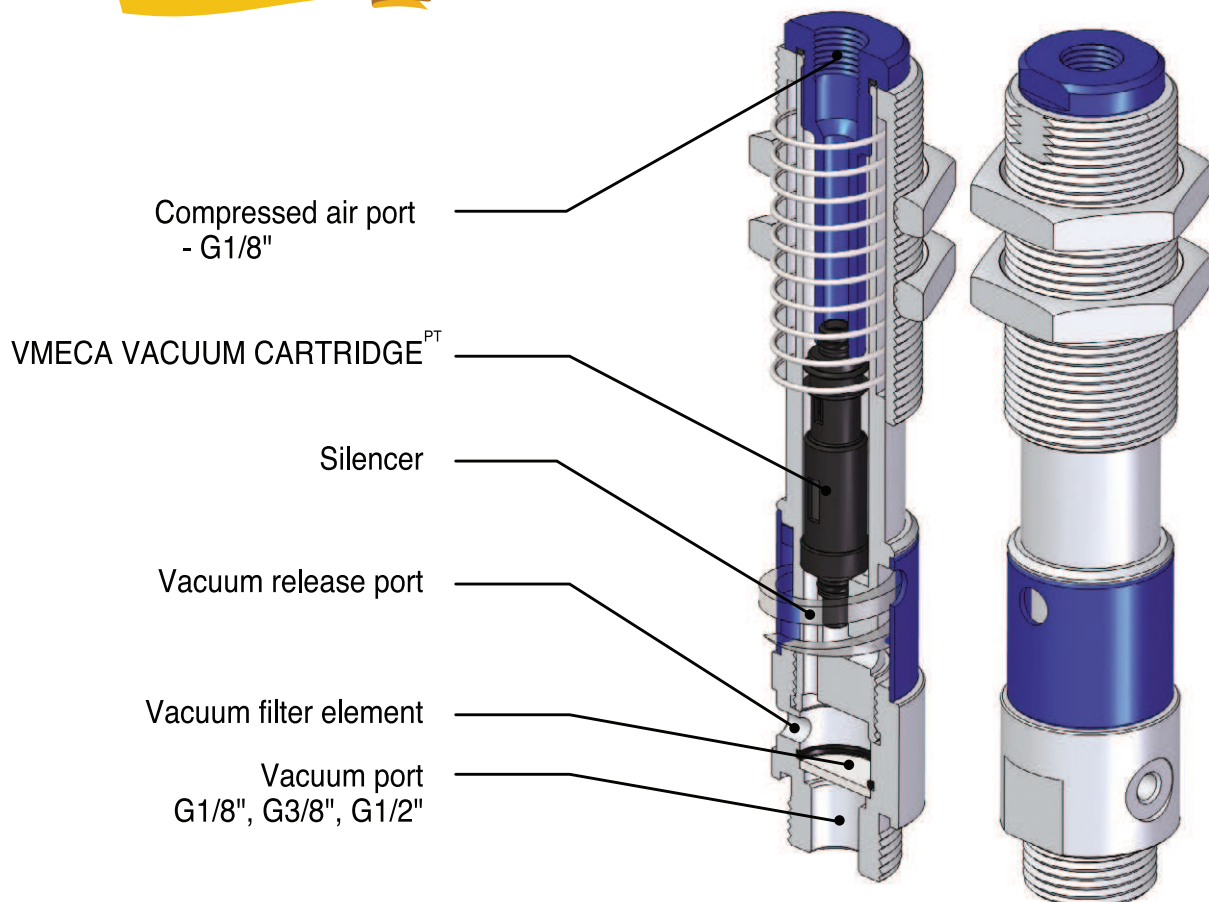
▼ VCS202-12M20



Measure unit : mm [inch]

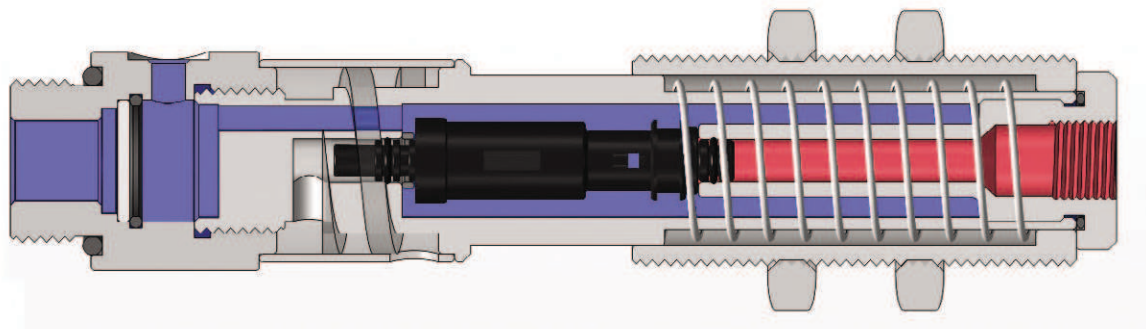
Constructions

**PATENT &
PATENT PENDING**



Features

- VMECA Vacuum speeder operates at 3~6bar(43.5~87 psi) air pressure and maintains vacuum -90 kPa (-26.5 inHg) in low pressure of fluctuating pressure situations.
- Extremely fast response (increased speed).
- VMECA Vacuum cartridge^{PT} with silencer built into the body of a level compensator.
- Small size and easy to mount.
- Low energy consumption and noise level.
- No maintenance expected or required.

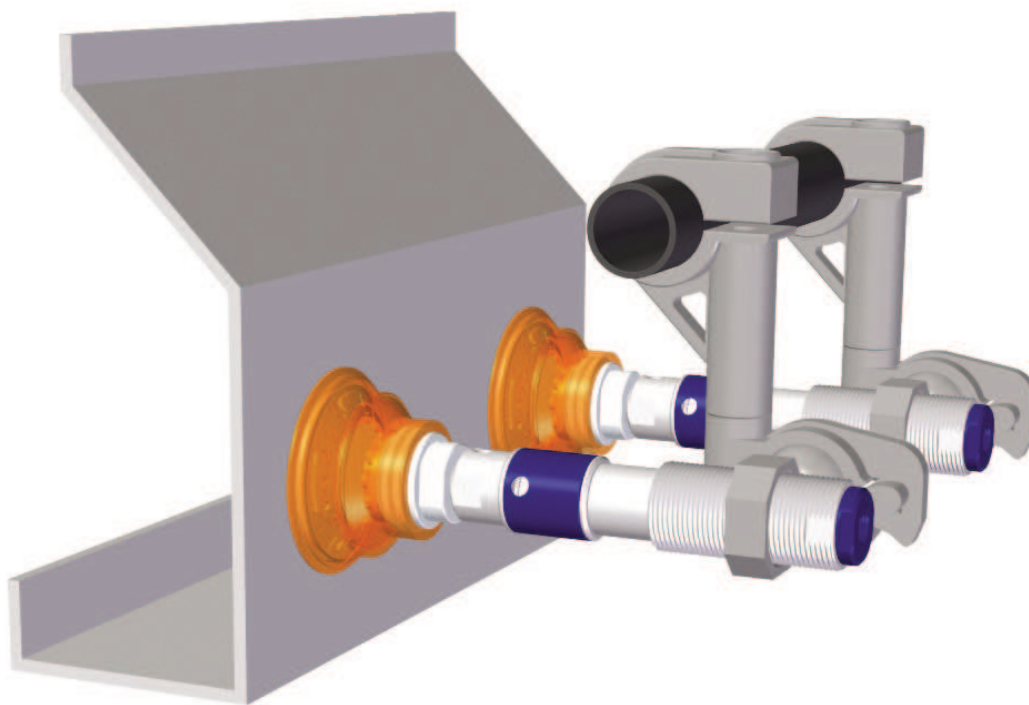


■ Vacuum Zone

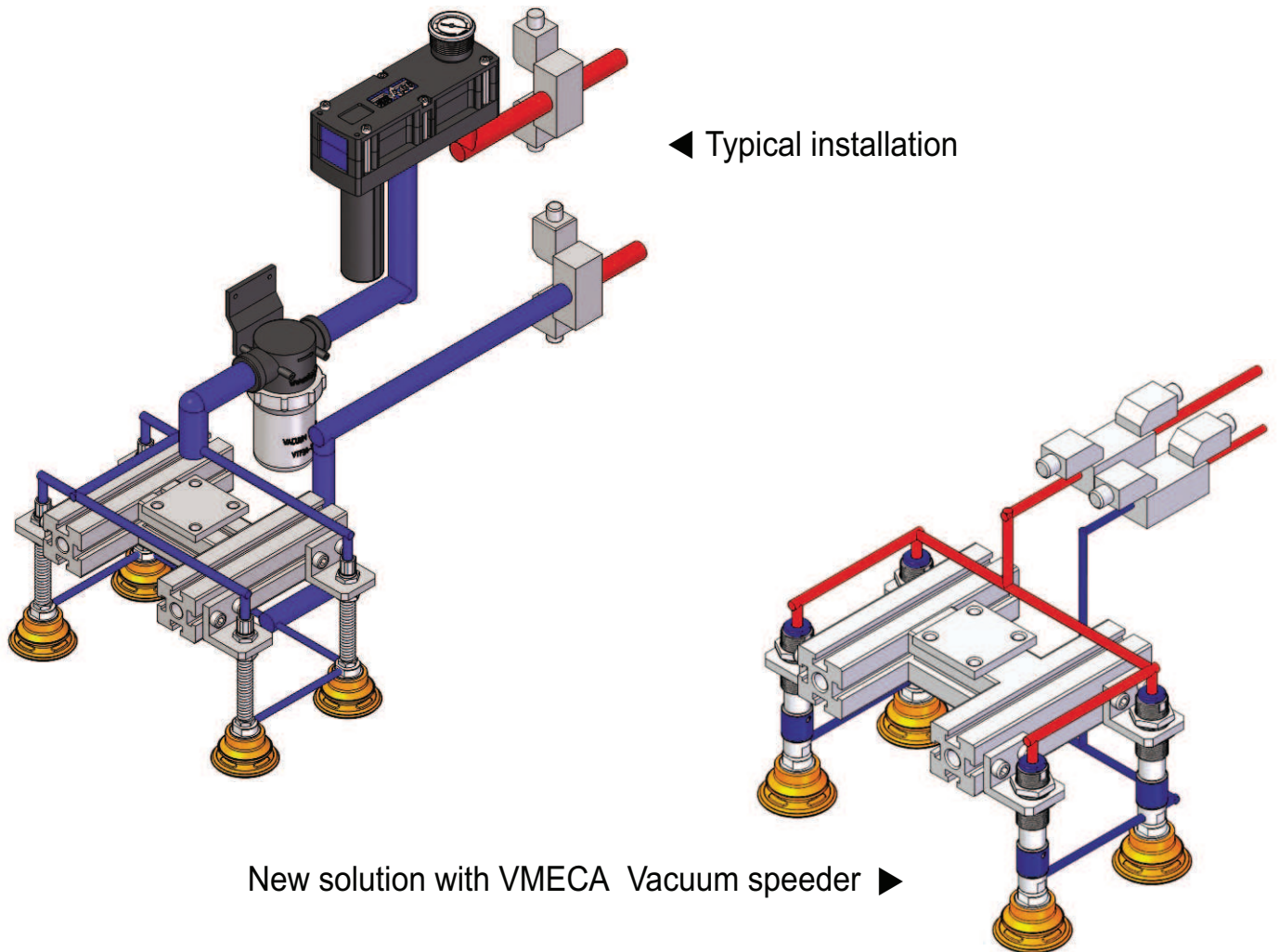
■ Compressed-air feed zone

The vacuum cartridge is built into the body of the level compensator. System plumbing is virtually eliminated and vacuum is created directly at the point of use. Quicker response and faster cycle times with minimum compressed air usage are the result. Additionally, the VMECA Vacuum Speeder offers all the height compensating and shock absorbing qualities of a conventional level spring.

VACUUM
SPEEDER



The VMECA Vacuum speeder offers the convenience of an extremely compact, point-of-use vacuum pump.



Features

- VMECA Vacuum Cartridge^{PT} with silencer built into the body of a level compensator.
- Point-of-use design eliminates system plumbing.
- Individual and independent vacuum improves safety and reliability of operation
- Low energy consumption.
- Fast response and cycle times - as much as 60% faster than typical, conventional ejectors.