

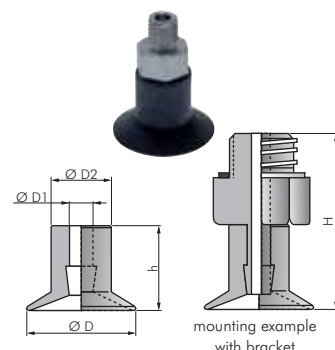
Vacuum suction

Material overview (only reference values, does not replace technical advice)

Material	Description	Temperature range	Wear strength*	Oil resistance*	Weather and ozone resistance*	Peril resistance*	Advantage	Recommended for
CR	Chloroprene	-40°C to max. +110°C	3	2	2	x	Weather resistant	Universal use
NBR	Nitrile rubber	-30°C to max. +90°C	3	1	x	3	Oil-resistant, water-resistant up to max. 70°C	Universal use
SI	Silicone rubber	-40°C to max. +200°C	x	x	1	x	Temperature resistant, very flexible	Food, electronics
PUR	Polyurethane	-20°C to max. +80°C	2	1	3	2	Long service life	Harsh opera. conditions, automobile
NR	Natural rubber	-40°C to max. +80°C	2	x	x	x	Flexible, abrasion resistant	Wood, uneven surfaces
NRE	Natural rubber	-40°C to max. +80°C	2	x	x	x	Very flexible, abrasion resistant	Wood, uneven surfaces
SBR	Styrene-butadiene rubber	-30°C to max. +80°C	1	x	3	x	Non-marking, flexible, very wear-resistant	Wood, uneven surfaces

All materials 45 - 55 Shore A (unless otherwise specified)

* 1 = Very good, 2 = Good, 3 = Fair, x = Not recommended



Flat suction cups

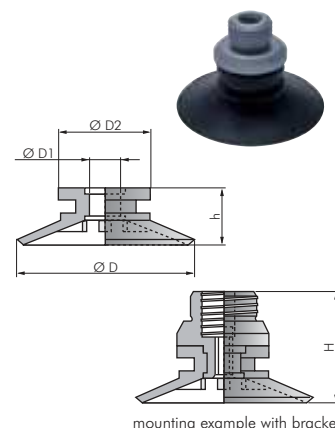
P series (Ø 5 - 16 mm)

Type CR (black)	Type silicone (transparent)	D	Stroke	Connection	MT	D1	D2	h	H	Bracket type
VSP 5 F CR	VSP 5 F Si	5.0	0.5	M5	2.0	4.5	6.0	13.5		A
VSP 7 F CR	VSP 7 F Si	7.0	1.0	M5	2.0	5.0	6.5	14.0		A
VSP 9 F CR	VSP 9 F Si	9.0	1.5	M5	2.0	5.0	7.0	14.5		A
VSP 11 F CR	VSP 11 F Si	11.0	1.0	M5	3.8	9.0	10.5	19.5		B
VSP 16-0.5 F CR*	VSP 16-0.5 F Si*	16.5	0.5	M5	3.8	8.0	11.5	20.5		B
VSP 16 F CR	VSP 16 F Si	16.5	2.0	M5	3.8	9.0	11.5	20.5		B

Suitable bracket (must be ordered separately)

Type brass	Thread connector	DN	Bracket type
nickel-plated			
VSPH A50	M5 MT	1.3	A
VSPH B50	M5 MT	2.8	B

* with support rib



Flat suction cups with supports

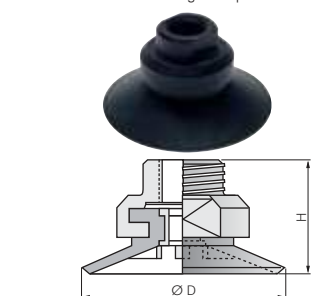
P series (Ø 20 - 50 mm)

Type CR (black)	Type silicone (transparent)	D	Stroke	Connection	FT/MT	D1	D2	h	H	Bracket type
VSP 20 F CR	VSP 20 F Si	22	0.5	M5/G1/8"	5.5	14.5	8.0	17.5		C
VSP 20-2.5 F CR*	VSP 20-2.5 F Si*	22	2.5	M5/G1/8"	5.5	14.5	8.0	17.5		C
VSP 25 F CR	VSP 25 F Si	28	1.0	M5/G1/8"	5.5	14.5	9.0	18.5		C
VSP 30 F CR	VSP 30 F Si	32	2.5	M5/G1/8"	5.5	14.5	10.0	19.5		C
VSP 40 F CR	VSP 40 F Si	42	2.0	G1/8"-	6.5	20.0	13.0	21.0		D
VSP 50 F CR	VSP 50 F Si	53	2.5	G1/8"-	10.5	27.0	17.5	26.5		E

Suitable bracket (must be ordered separately)

Type aluminium	Type retaining ring (optional)	Thread connector	DN	Bracket type
VSPH C18	VSPH C18 HR	M5 FT/G 1/8" MT	3.1	C
VSPH D18 i	VSPH D18 i HR	G 1/8" FT	5.2	D
VSPH E18 i	VSPH E18 i HR	G 1/8" FT	6.3	E

* without support ribs



Flat suction cups with support ribs complete with brackets

P series (Ø 20 - 50 mm)

Supply volume: 1 pc. suction cup with assembled bracket and installed suction strainer

Type CR (black)	Type silicone (transparent)	D	Stroke	Connection	FT/MT	DN	H
VSP 20 FK CR	VSP 20 FK Si	22	0.5	M5/G1/8"		4.3	16
VSP 25 FK CR	VSP 25 FK Si	28	1.0	M5/G1/8"		4.3	17
VSP 30 FK CR	VSP 30 FK Si	32	2.5	M5/G1/8"		4.3	18
VSP 40 FK CR	VSP 40 FK Si	42	2.0	G1/8"-		6.0	21
VSP 50 FK CR	VSP 50 FK Si	53	2.5	G1/8"-		8.8	26

Bellows suction pads, 1.5 times

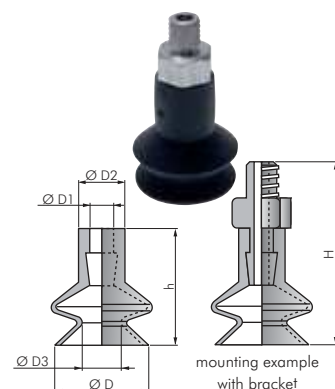
P series (Ø 6 - 16 mm)

Type CR (black)	Type silicone (transparent)	D	Stroke	Connection	MT	D1	D2	D3	h	H	Bracket type
VSP 6 B1 CR	VSP 6 B1 Si*	6	2.0	M5	2	4.5	2.2	9	16.5		A
VSP 9 B1 CR	VSP 9 B1 Si*	9	3.5	M5	2	5.5	3.8	12	19.5		A
VSP 11 B1 CR	VSP 11 B1 Si	11	5.0	M5	4	9.0	6.0	17	26.5		B
VSP 16 B1 CR	VSP 16 B1 Si	16	7.0	M5	4	9.0	8.0	19	28.5		B

Suitable bracket (must be ordered separately)

Type brass	Thread connector	DN	Bracket type
nickel-plated			
VSPH A50	M5 MT	1.3	A
VSPH B50	M5 MT	2.8	B

* red



All data are considered to be unbinding reference values. We accept no liability for data selection that is not confirmed in writing. Pressure data refer, if not otherwise indicated, to liquids of Group II at +20°C.