

U2



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.
- ▶ Suction cups of conductive silicone are suitable for objects with sensitivity to static electricity.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm ³	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
0.03	0.10	0.15	—	—	—	0.003	4.0	0.10	0.012

Material specifications

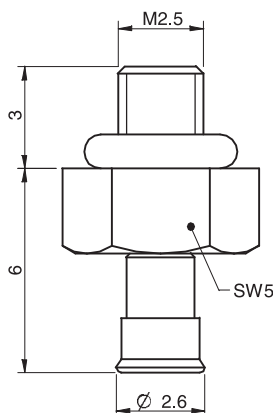
Material	Colour	Hardness °Shore A	Temperature range °C
Conductive silicone, CSIL	Black	50	-55-230

Material resistance

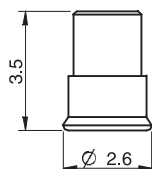
Wear resistance	Oil	Weather & Ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

Complete suction cups	Art. No.
Suction cup U2 Conductive silicone, M2.5 male	3250080SC



Rubber parts	Art. No.
Suction cup U2 Conductive silicone	3150284SC



Fittings	Art. No.
Fitting M2.5 male	3250084

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U3



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.
- ▶ Suction cups of conductive silicone are suitable for objects with sensitivity to static electricity.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm ³	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
0.09	0.42	0.65	—	—	—	0.005	5.0	0.15	0.030

Material specifications

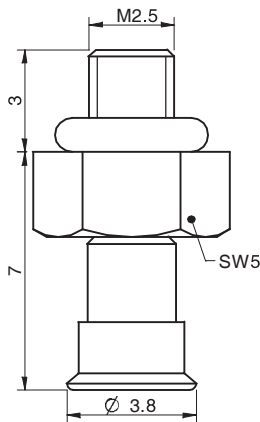
Material	Colour	Hardness °Shore A	Temperature range °C
Conductive silicone, CSIL	Black	50	-55-230

Material resistance

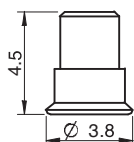
Wear resistance	Oil	Weather & Ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

Complete suction cups	Art. No.
Suction cup U3 Conductive silicone, M2.5 male	3250081SC



Rubber parts	Art. No.
Suction cup U3 Conductive silicone	3150285SC



Fittings	Art. No.
Fitting M2.5 male	3250084

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U4



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume	Min. curve radius	Max. vertical movement	Weight rubber part
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa	cm	mm	mm	g
0.20	0.90	1.3	0.20	0.80	1.0	0.03	3.0	0.20	0.08

Material specifications

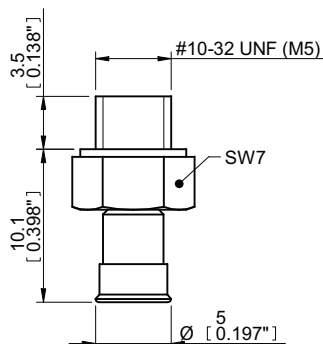
Material	Colour	Hardness °Shore A	Temperature range °C
Chloroprene, CR	Black	50	-40–110
Silicone, SIL	Red	50	-40–200

Material resistance

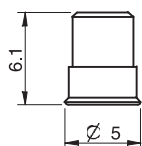
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Chloroprene, CR	Excellent	Fair	Good	Good	Fair	Poor	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

Complete suction cups	Art. No.
Suction cup U4 Chloroprene, M5 male	3150059
Suction cup U4 Silicone, M5 male	3150059S



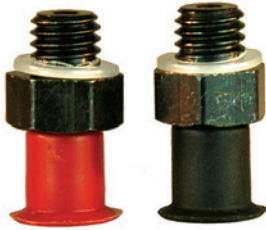
Rubber parts	Art. No.
Suction cup U4 Chloroprene	3150114
Suction cup U4 Silicone	3150114S



Fittings	Art. No.
Fitting M5 male, 5–8	3107031

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U6



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume	Min. curve radius	Max. vertical movement	Weight rubber part
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa	cm	mm	mm	g
0.50	1.7	2.5	0.50	1.5	2.0	0.05	5.0	0.30	0.14

Material specifications

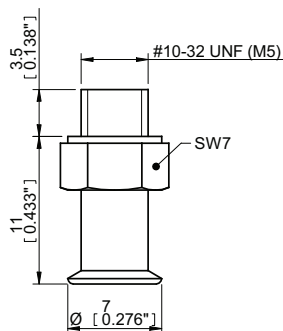
Material	Colour	Hardness °Shore A	Temperature range °C
Chloroprene, CR	Black	50	-40-110
Silicone, SIL	Red	50	-40-200

Material resistance

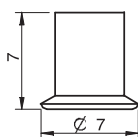
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Chloroprene, CR	Excellent	Fair	Good	Good	Fair	Poor	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

Complete suction cups	Art. No.
Suction cup U6 Chloroprene, M5 male	3150003
Suction cup U6 Silicone, M5 male	3150003S



Rubber parts	Art. No.
Suction cup U6 Chloroprene	3150115
Suction cup U6 Silicone	3150115S



Fittings	Art. No.
Fitting M5 male, 5-8	3107031

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U8



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
1.0	2.9	3.9	1.0	2.9	3.4	0.10	6.0	0.50	0.16

Material specifications

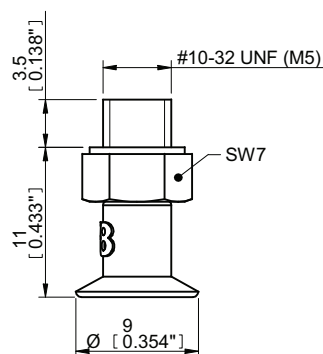
Material	Colour	Hardness °Shore A	Temperature range °C
Chloroprene, CR	Black	50	-40-110
Silicone, SIL	Red	50	-40-200

Material resistance

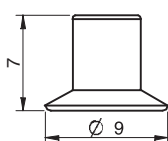
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Chloroprene, CR	Excellent	Fair	Good	Good	Fair	Poor	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

Complete suction cups	Art. No.
Suction cup U8 Chloroprene, M5 male	3150004
Suction cup U8 Silicone, M5 male	3150004S



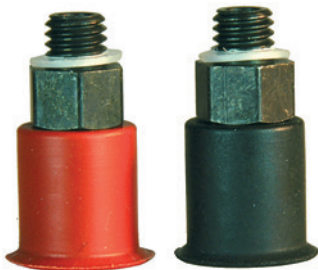
Rubber parts	Art. No.
Suction cup U8 Chloroprene	3150116
Suction cup U8 Silicone	3150116S



Fittings	Art. No.
Fitting M5 male, 5-8	3107031

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U10



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume	Min. curve radius	Max. vertical movement	Weight rubber part
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa	cm	mm	mm	g
1.5	4.4	6.9	1.5	4.4	4.9	0.18	8.0	0.50	0.65

Material specifications

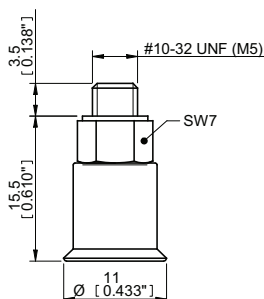
Material	Colour	Hardness °Shore A	Temperature range °C
Chloroprene, CR	Black	50	-40-110
Silicone, SIL	Red	50	-40-200

Material resistance

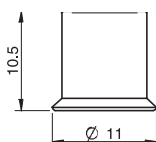
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Chloroprene, CR	Excellent	Fair	Good	Good	Fair	Poor	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

Complete suction cups	Art. No.
Suction cup U10 Chloroprene, M5 male	3150005
Suction cup U10 Silicone, M5 male	3150005S



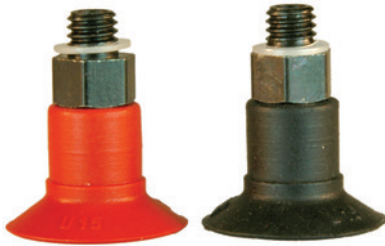
Rubber parts	Art. No.
Suction cup U10 Chloroprene	3150117
Suction cup U10 Silicone	3150117S



Fittings	Art. No.
Fitting M5 male, 10-15	3107030

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U15



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
3.5	8.4	11.0	3.5	5.4	5.9	0.50	8.0	1.5	0.70

Material specifications

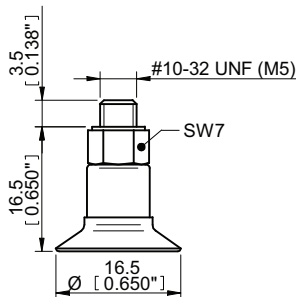
Material	Colour	Hardness °Shore A	Temperature range °C
Chloroprene, CR	Black	50	-40-110
Silicone, SIL	Red	50	-40-200

Material resistance

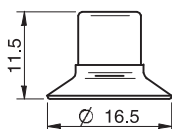
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Chloroprene, CR	Excellent	Fair	Good	Good	Fair	Poor	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

Complete suction cups	Art. No.
Suction cup U15 Chloroprene, M5 male	3150006
Suction cup U15 Silicone, M5 male	3150006S



Rubber parts	Art. No.
Suction cup U15 Chloroprene	3150118
Suction cup U15 Silicone	3150118S



Fittings	Art. No.
Fitting M5 male, 10-15	3107030

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U15-3



Universal suction cup with reinforced lip

- ▶ Wide temperature range (-60°C to +200°C)
- ▶ The silicone material complies with FDA 21 CFR 177.2600
- ▶ Reinforced lip

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
3.5	8.4	11.0	3.5	5.4	5.9	0.50	8.0	1.5	0.70

Material specifications

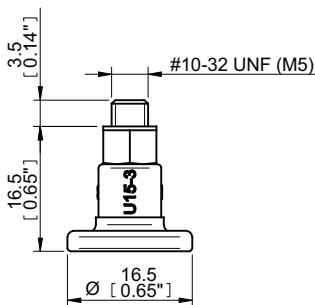
Material	Colour	Hardness °Shore A	Temperature range °C
Silicone, SIL	Red	40	-40-200

Material resistance

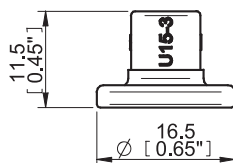
Material	Wear resistance	Oil	Weather & Ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

Complete suction cup	Art. No.
Suction cup U15-3 Silicone, M5 male	0117947



Rubber part	Art. No.
Suction cup U15-3 Silicone	0114981



Fittings	Art. No.
Fitting M5 male, 10-15	3107030

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U20



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm ³	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
5.9	12.0	16.0	5.9	8.8	9.8	1.0	13.0	2.5	1.2

Material specifications

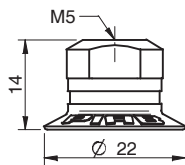
Material	Colour	Hardness °Shore A	Temperature range °C
Chloroprene, CR	Black	50	-40-110
Silicone, SIL	Red	50	-40-200

Material resistance

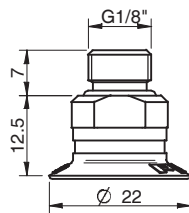
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Chloroprene, CR	Excellent	Fair	Good	Good	Fair	Poor	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

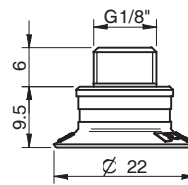
	Complete suction cups	Art. No.
A	Suction cup U20 Chloroprene, M5 female	0101373
A	Suction cup U20 Chloroprene, M5 female, with dual flow control valve	0101379
B	Suction cup U20 Chloroprene, G1/8" male, with mesh filter	0101374
B	Suction cup U20 Chloroprene, G1/8" male, with mesh filter and dual flow control valve	0101380
C	Suction cup U20 Chloroprene, G1/8" male/M5 female, with mesh filter	0101378
C	Suction cup U20 Chloroprene, G1/8" male/M5 female, with dual flow control valve	0101382
D	Suction cup U20 Chloroprene, 5xM5 female	0101377
A	Suction cup U20 Silicone, M5 female, with dual flow control valve	0101390
B	Suction cup U20 Silicone, G1/8" male, with mesh filter	0101385
B	Suction cup U20 Silicone, G1/8" male, with mesh filter and dual flow control valve	0101391
C	Suction cup U20 Silicone, G1/8" male/M5 female, with mesh filter	0101389
D	Suction cup U20 Silicone, 5xM5 female	0101388
D	Suction cup U20 Silicone, 5xM5 female, with dual flow control valve	0101394
E	Suction cup U20 Chloroprene, G1/8" male/M5 female, PA	0110956
E	Suction cup U20 Silicone, G1/8" male/M5 female, PA	0110328



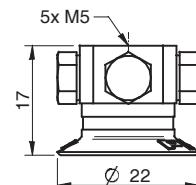
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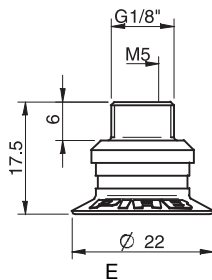
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C

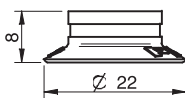


D



E

Rubber parts	Art. No.
Suction cup U20 Chloroprene	0101144
Suction cup U20 Silicone	0101145



Fittings	Art. No.
Fitting M5 female	3250003
Fitting M5 female, with dual flow control valve	3251001
Fitting G1/8" male, with mesh filter	3250085
Fitting G1/8" male, with mesh filter and dual flow control valve	3251002
Fitting G1/8" male/M5 female, with mesh filter	0101152
Fitting G1/8" male/M5 female, with dual flow control valve	3251004
Fitting 5xM5 female	0100260
Fitting 5xM5 female, with dual flow control valve	3251005
Fitting G1/8" male/M5 female, PA	3150196

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U30



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm ³	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
12.0	25.0	30	7.8	9.8	11.0	2.0	20.0	3.5	1.8

Material specifications

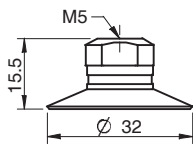
Material	Colour	Hardness °Shore A	Temperature range °C
Nitrile-PVC, NPV	Black	50	0-90
Silicone, SIL	Red	50	-40-200

Material resistance

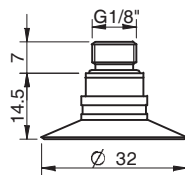
Material	Wear resistance	Oil	Weather & Ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Nitrile-PVC, NPV	Excellent	Excellent	Good	Good	Excellent	Fair	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

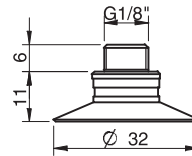
	Complete suction cups	Art. No.
A	Suction cup U30 Nitrile-PVC, M5 female	0101406
B	Suction cup U30 Nitrile-PVC, G1/8" male, with mesh filter	0101407
B	Suction cup U30 Nitrile-PVC, G1/8" male, with mesh filter and dual flow control valve	0101413
C	Suction cup U30 Nitrile-PVC, G1/8" male / M5 female, with mesh filter	0101411
C	Suction cup U30 Nitrile-PVC, G1/8" male / M5 female, with dual flow control valve	0101415
A	Suction cup U30 Silicone, M5 female, with mesh filter	0101395
B	Suction cup U30 Silicone, G1/8" male, with mesh filter	0101396
B	Suction cup U30 Silicone, G1/8" male, with mesh filter and dual flow control valve	0101402
C	Suction cup U30 Silicone, G1/8" male / M5 female, with mesh filter	0101400
D	Suction cup U30 Silicone, 5xM5 female, with mesh filter	0101399
E	Suction cup U30 Nitrile-PVC, G1/8" male / M5 female, PA	0109839



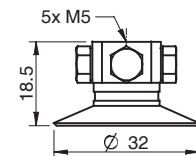
A



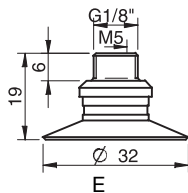
B



C

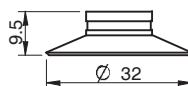


D



E

	Rubber parts	Art. No.
	Suction cup U30 Nitrile-PVC	0101146
	Suction cup U30 Silicone	0101147



	Fittings	Art. No.
	Fitting M5 female	3250003
	Fitting M5 female, with dual flow control valve	3251001
	Fitting G1/8" male, with mesh filter	3250085
	Fitting G1/8" male, with mesh filter and dual flow control valve	3251002
	Fitting G1/8" male/M5 female, with mesh filter	0101152
	Fitting G1/8" male/M5 female, with dual flow control valve	3251004
	Fitting 5xM5 female	0100260
	Fitting 5xM5 female, with dual flow control valve	3251005
	Fitting G1/8" male/M5 female, PA	3150196

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U40-2



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm ³	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
20.0	39	49	14.0	22.0	27	5.5	30	4.5	4.0

Material specifications

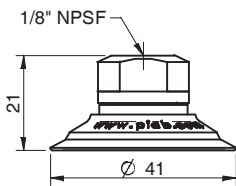
Material	Colour	Hardness °Shore A	Temperature range °C
Nitrile-PVC, NPV	Black	50	0-90
Silicone, SIL	Red	50	-40-200

Material resistance

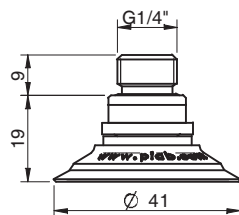
Material	Wear resistance	Oil	Weather & Ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Nitrile-PVC, NPV	Excellent	Excellent	Good	Good	Excellent	Fair	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

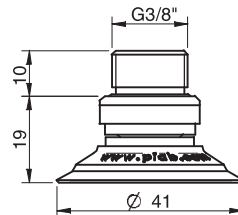
	Complete suction cups	Art. No.
A	Suction cup U40-2 Nitrile-PVC, 1/8" NPSF female, with mesh filter	0101623
B	Suction cup U40-2 Nitrile-PVC, G1/4" male, with mesh filter	0101618
B	Suction cup U40-2 Nitrile-PVC, G1/4" male, with mesh filter and dual flow control valve	0101625
C	Suction cup U40-2 Nitrile-PVC, G3/8" male, with dual flow control valve	0101627
A	Suction cup U40-2 Silicone, 1/8" NPSF female, with mesh filter	0101610
B	Suction cup U40-2 Silicone, G1/4" male, with mesh filter	0101605
C	Suction cup U40-2 Silicone, G3/8" male, with mesh filter	0101607
D	Suction cup U40-2 Silicone, 5x1/8" NPSF female	0101609
E	Suction cup U40-2 Silicone, 1/8" NPSF female, PA	0110338



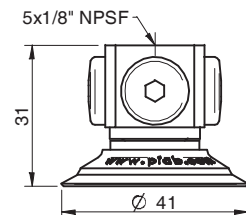
A



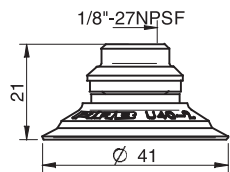
B



C

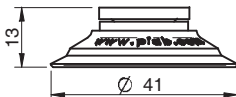


D



E

	Rubber parts	Art. No.
	Suction cup U40-2 Nitrile-PVC	0101148
	Suction cup U40-2 Silicone	0101149



	Fittings	Art. No.
	Fitting 1/8" NPSF female, 30-40, with mesh filter	0101153
	Fitting 1/8" NPSF female, 30-40, with dual flow control valve	3251006
	Fitting G1/4" male, 30-40, with mesh filter	3250091
	Fitting G1/4" male, 30-40, with mesh filter and dual flow control valve	3251007
	Fitting G3/8" male, 30-40, with mesh filter	3250086
	Fitting G3/8" male, 30-40, with mesh and dual flow control valve	3251009
	Fitting 5x1/8" NPSF female, 30-40	0100261
	Fitting 5x1/8" NPSF female, 30-40, with dual flow control valve	3251011
	Fitting 1/8" NPSF female, 30-40, PA	3150197

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.

U50-2



Universal suction cup

- ▶ Suitable for objects with flat or slightly curved surfaces.
- ▶ Also used for concave objects.

Lifting forces & Technical data

Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm ³	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
35	73	92	20	37	44	12	35	6.0	10.0

Material specifications

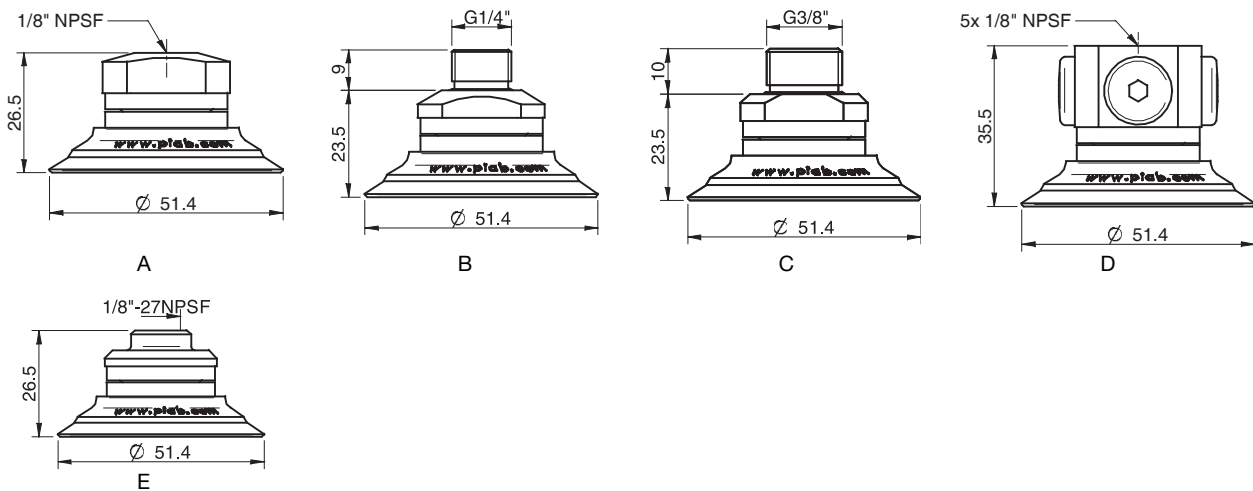
Material	Colour	Hardness °Shore A	Temperature range °C
Nitrile-PVC, NPV	Black	50	0-90
Silicone, SIL	Red	50	-40-200

Material resistance

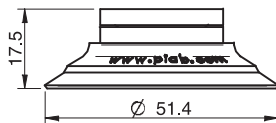
Material	Wear resistance	Oil	Weather & Ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Nitrile-PVC, NPV	Excellent	Excellent	Good	Good	Excellent	Fair	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

Ordering information

	Complete suction cups	Art. No
A	Suction cup U50-2 Nitrile-PVC, 1/8" NPSF female, with mesh filter	0101823
B	Suction cup U50-2 Nitrile-PVC, G1/4" male, with mesh filter	0101818
C	Suction cup U50-2 Nitrile-PVC, G3/8" male, with mesh filter	0101820
D	Suction cup U50-2 Nitrile-PVC, 5x1/8" NPSF female	0101822
A	Suction cup U50-2 Silicone, 1/8" NPSF female, with mesh filter	0101810
A	Suction cup U50-2 Silicone, 1/8" NPSF female, with dual flow control valve	0101811
B	Suction cup U50-2 Silicone, G1/4" male, with mesh filter	0101805
C	Suction cup U50-2 Silicone, G3/8" male, with mesh filter	0101807
C	Suction cup U50-2 Silicone, G3/8" male, with mesh filter and dual flow control valve	0101814
E	Suction cup U50-2 Silicone, 1/8" NPSF female, PA	0110330



Rubber parts	Art. No.
Suction cup U50-2 Silicone	0101151
Suction cup U50-2 Nitrile-PVC	0101150



Fittings	Art. No
Fitting 1/8" NPSF female, 50, with mesh filter	0101154
Fitting 1/8" NPSF female, 50, with dual flow control valve	3251012
Fitting G1/4" male, 50, with mesh filter	3250092
Fitting G1/4" male, with mesh filter and dual flow control valve	3251013
Fitting G3/8" male, 50, with mesh filter	3250087
Fitting G3/8" male, 50, with mesh filter and dual flow control valve	3251015
Fitting 5x1/8" NPSF female, 50	0100262
Fitting 5x1/8" NPSF female, 50, with dual flow control valve	3251017
Fitting 1/8" NPSF female, 50, PA	3150198

For further information and dimensioned drawings, see section Suction cups/grippers Fittings.