

## D15-2



### Deep suction cup

- ▶ Suitable for objects with curved or irregular surfaces.
- ▶ Grips around corners and edges.

### 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
2.9	7.8	11.0	—	—	—	0.9	6.0	3.0	1.2

### Material specifications

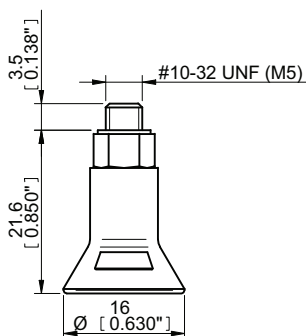
Material	Colour	Hardness °Shore A	Temperature range °C
Chloroprene, CR	Black	50	-40-110
Silicone, SIL	Red	50	-40-200

### Material resistance

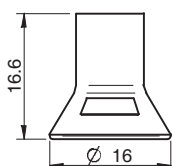
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Chloroprene, CR	Excellent	Fair	Good	Good	Fair	Poor	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

### Ordering information

Complete suction cups	Art. No.
Suction cup D15-2 Chloroprene, M5 male	3150010
Suction cup D15-2 Silicone, M5 male	3150010S



Rubber parts	Art. No.
Suction cup D15-2 Chloroprene	3150135
Suction cup D15-2 Silicone	3150135S



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

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

## D20-2



### Deep suction cup

- ▶ Suitable for objects with curved or irregular surfaces.
- ▶ Grips around corners and edges.

### 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 <sup>3</sup>	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	15.0	18.0	—	—	—	2.5	8.0	4.5	2.2

### Material specifications

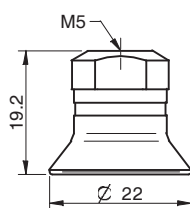
Material	Colour	Hardness °Shore A	Temperature range °C
Chloroprene, CR	Black	50	-40-110
Silicone, SIL	Red	50	-40-200

### Material resistance

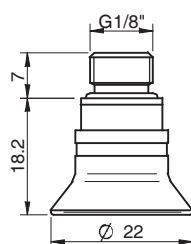
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Chloroprene, CR	Excellent	Fair	Good	Good	Fair	Poor	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

### Ordering information

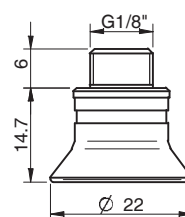
	Complete suction cups	Art. No.
A	Suction cup D20-2 Chloroprene, M5 female	0101215
B	Suction cup D20-2 Chloroprene, G1/8" male, with mesh filter	0101216
C	Suction cup D20-2 Chloroprene, G1/8" male/M5 female, with mesh filter	0101220
A	Suction cup D20-2 Silicone, M5 female	0101226
A	Suction cup D20-2 Silicone, M5 female, with dual flow control valve	0101232
B	Suction cup D20-2 Silicone, G1/8" male, with mesh filter	0101227
C	Suction cup D20-2 Silicone, G1/8" male/M5 female, with mesh filter	0101231
E	Suction cup D20-2 Silicone, G1/8" male/M5 female, PA	0110331



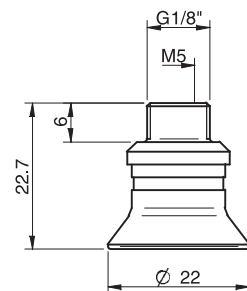
A



B



C

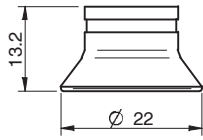


E

# Suction cups/grippers Standard



Rubber parts	Art. No.
Suction cup D20-2 Chloroprene	0101123
Suction cup D20-2 Silicone	0101124



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*.

## D30-2



### Deep suction cup

- ▶ Suitable for objects with curved or irregular surfaces.
- ▶ Grips around corners and edges.

### 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 <sup>3</sup>	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
14.0	26	31	—	—	—	5.0	13	5.0	4.0

### Material specifications

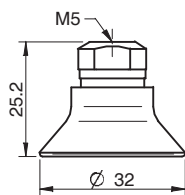
Material	Colour	Hardness °Shore A	Temperature range °C
Chloroprene, CR	Black	50	-40–110
Silicone, SIL	Red	50	-40–200

### Material resistance

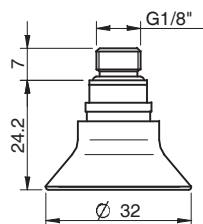
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Chloroprene, CR	Excellent	Fair	Good	Good	Fair	Poor	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

## Ordering information

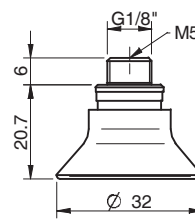
	Complete suction cups	Art. No.
A	Suction cup D30-2 Chloroprene, M5 female	0101237
B	Suction cup D30-2 Chloroprene, G1/8" male, with mesh filter	0101238
B	Suction cup D30-2 Chloroprene, G1/8" male, with mesh filter and dual flow control valve	0101244
C	Suction cup D30-2 Chloroprene, G1/8" male/M5 female, with mesh filter	0101242
C	Suction cup D30-2 Chloroprene, G1/8" male/M5 female, with dual flow control valve	0101246
A	Suction cup D30-2 Silicone, M5 female	0101248
B	Suction cup D30-2 Silicone, G1/8" male, with mesh filter	0101249
C	Suction cup D30-2 Silicone, G1/8" male/M5 female, with mesh filter	0101253
D	Suction cup D30-2 Silicone, 5xM5 female	0101252
E	Suction cup D30-2 Silicone, G1/8" male/M5 female, PA	0110332



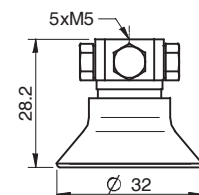
A



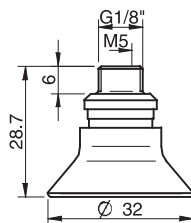
B



C

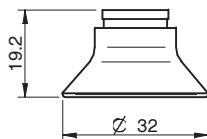


D



E

Rubber parts	Art. No.
Suction cup D30-2 Chloroprene	0101125
Suction cup D30-2 Silicone	0101126



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.

## D50



### Deep suction cup

- ▶ Suitable for objects with curved or irregular surfaces.
- ▶ Grips around corners and edges.

### 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 <sup>3</sup>	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
36	78	98	—	—	—	15	25	10	18

### Material specifications

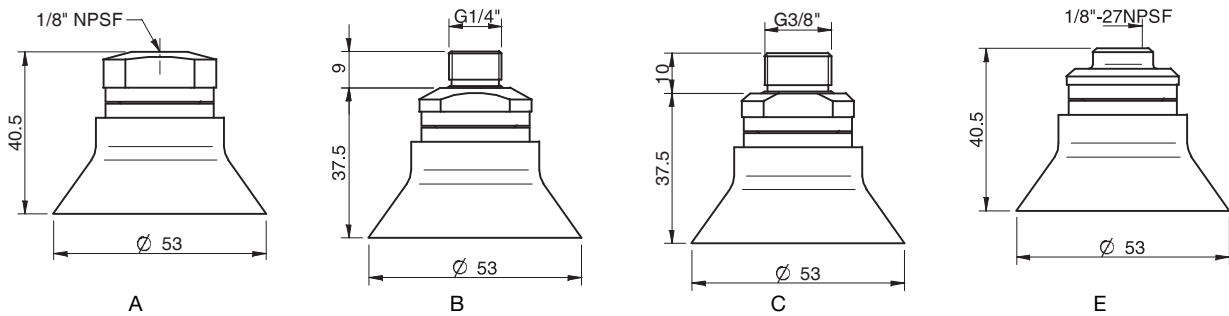
Material	Colour	Hardness °Shore A	Temperature range °C
Chloroprene, CR	Black	50	-40-110
Silicone, SIL	Red	50	-40-200

### Material resistance

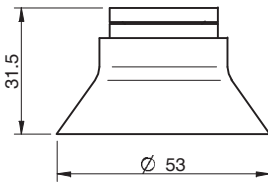
Material	Wear resistance	Oil	Weather & ozone	Hydrolysis	Petrol	Concentrated acids	Alcohol	Oxidation
Chloroprene, CR	Excellent	Fair	Good	Good	Fair	Poor	Good	Good
Silicone, SIL	Good	Poor	Excellent	Fair	Poor	Poor	Good	Excellent

## Ordering information

	Complete suction cups	Art. No.
A	Suction cup D50 Chloroprene, 1/8" NPSF female, with mesh filter	0101727
B	Suction cup D50 Chloroprene, G1/4" male, with mesh filter	0101722
C	Suction cup D50 Chloroprene, G3/8" male, with mesh filter	0101724
A	Suction cup D50 Silicone, 1/8" NPSF female, with mesh filter	0101740
B	Suction cup D50 Silicone, G1/4" male, with mesh filter	0101735
C	Suction cup D50 Silicone, G3/8" male, with mesh filter	0101737
E	Suction cup D50 Chloroprene, 1/8" NPSF female, PA	0109841



	Rubber parts	Art. No.
	Suction cup D50 Chloroprene	0101127
	Suction cup D50 Silicone	0101128



	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.