

Flat Suction Cups
 Ø 6 to 150 mm

- Suitable for use on flat surfaces
- Ideal for applications where a minimum of movement is required to maintain suction when supporting pliable materials
- Wide variety of cup sizes available


Technical Data

Medium:

Vacuum

Cup Diameters:

6, 8, 10, 15, 20, 25, 30, 40, 50, 80, 120, 150 mm

Operating Temperature:

-10°C* to +70°C for Nitrile rubber cups

-30°C* to +200°C for Silicone cups

* Consult our Technical Service for use below +2°C

Other Features:

| Material | Nitrile | Silicone |
|--------------------|-----------|-----------|
| Wear resistance | Good | Fair |
| Oil resistance | Excellent | Fair |
| Weather resistance | Good | Excellent |
| Ozone resistance | Fair | Excellent |

Materials:

M/58300/01 Nitrile rubber cups, aluminium connection fittings.

M/58300/02 Silicone cups, aluminium connection fittings.

Ordering Information

To order a Ø 30 mm flat suction cup in nitrile rubber quote: M/58307/01

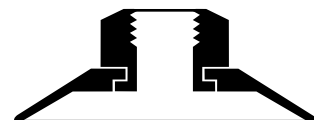
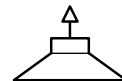
To order a Ø 50 mm flat suction cup in silicone quote: M/58309/02

Accessories

Suction cup accessories

See page

N/UK 3.5.051.01





Lifting Force



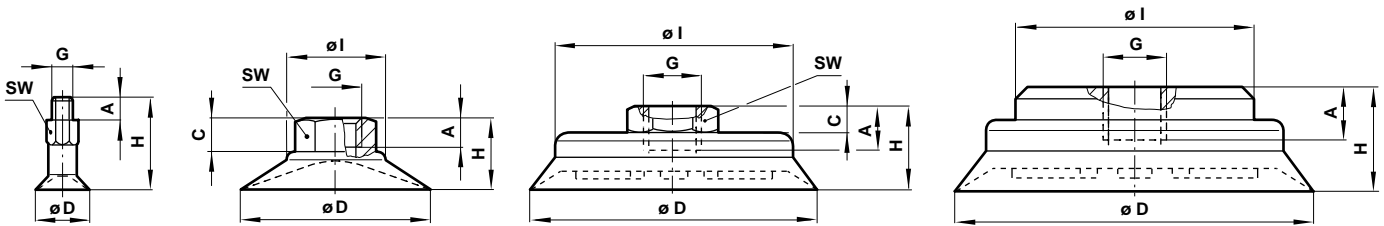
| Model | 58301 | 58302 | 58303 | 58304 | 58305 | 58306 | 58307 | 58308 | 58309 | 58310 | 58311 | 58312 |
|----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ∅ | 6 | 8 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 80 | 120 | 150 |
| Fy (N) | -0,2 bar | 0,5 | 1 | 1,5 | 2,7 | 5 | 9 | 11 | 19 | 30 | 86 | 180 |
| | -0,6 bar | 1,5 | 2,5 | 4 | 8 | 15,5 | 26,5 | 34 | 57,5 | 91 | 260 | 540 |
| | -0,9 bar | 2,3 | 3,5 | 6 | 12 | 23 | 40 | 51 | 86 | 135 | 390 | 810 |
| R (mm) | 5 | 7 | 9 | 12 | 13 | 17,5 | 26 | 37 | 41 | 100 | 365 | 380 |
| S (mm) | 1,5 | 1,5 | 2 | 4 | 2 | 2,5 | 2,5 | 3,5 | 4 | 6 | 6 | 9 |
| V (cm ³) | 0,017 | 0,041 | 0,065 | 0,330 | 0,500 | 0,750 | 1,3 | 3 | 4,2 | 21 | 82 | 177 |

R = Minimum radius of work surface, S = Maximum movement, V = Volume inside
 Note: Theoretical values are given in this table. Always allow a safety factor of > 2.

Weights for Suction Cups

| Model | 58301 | 58302 | 58303 | 58304 | 58305 | 58306 | 58307 | 58308 | 58309 | 58310 | 58311 | 58312 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ∅ | 6 | 8 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 80 | 120 | 150 |
| Weight (kg) | 0,001 | 0,001 | 0,001 | 0,001 | 0,008 | 0,010 | 0,012 | 0,011 | 0,016 | 0,058 | 0,359 | 0,590 |

Basic Dimensions



∅ 6 to 30

∅ 40 and 50

∅ 80

∅ 120 and 150

| Model | 58301 | 58302 | 58303 | 58304 | 58305 | 58306 | 58307 | 58308 | 58309 | 58310 | 58311 | 58312 |
|----------|-------|-------|-------|-------|---------|---------|---------|-------|-------|-------|-------|-------|
| ∅ D | 6 | 8 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 80 | 120 | 150 |
| A | 4,5 | 4,5 | 4,5 | 4,5 | 8 | 8 | 8 | 6 | 6 | 13 | 9,5 | 9,5 |
| C | - | - | - | - | - | - | - | 9 | 11 | 3,5 | - | - |
| G | M 5 | M 5 | M 5 | M 5 | G 1/8 A | G 1/8 A | G 1/8 A | G 1/8 | G 1/8 | G 1/8 | G 1/2 | G 1/2 |
| H | 15 | 16 | 20 | 21 | 19,5 | 20 | 20,5 | 23 | 26 | 21,5 | 34,5 | 41,5 |
| ∅ I | - | - | - | - | - | - | - | 24 | 26 | 53 | 65 | 65 |
| SW (A/F) | 8 | 8 | 8 | 8 | 14 | 14 | 14 | 14 | 14 | 19 | - | - |

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

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