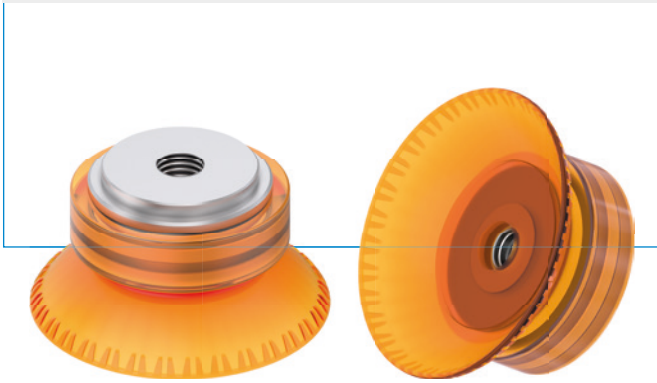


BELL-SHAPED SUCTION CUP

SERIES ZDF

▶ PRODUCT ADVANTAGES



▶ **Diameter: 25 mm–100 mm**

▶ **Optimum geometry**

- For thin, oily and bent metal plates and car body panels
- Friction structure on the underside of the suction cup ensures slip resistance between the workpiece and vacuum suction cup
- Highly durable and resistant thanks to the material characteristics of polyurethane

▶ **Application areas**

- Automotive
- Glass
- Wood and composite materials

▶ PRODUCT KEY

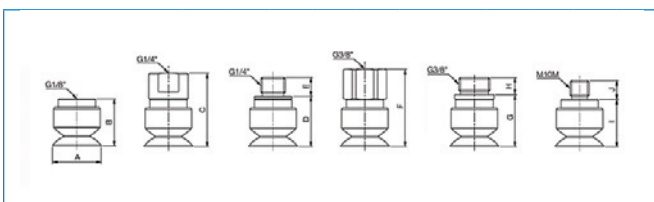
| | | | | | |
|--------|----------|---|----------|---|---------------|
| ZDF | 25 | - | PU | - | 14F |
| Series | Diameter | | Material | | Fixing thread |

▶ MATERIAL CHARACTERISTICS

| Version | Material | Color | Operating temperature [°C] | Shore hardness |
|---------|-------------|--------------------|----------------------------|----------------|
| PU | Polyurethan | Translucent orange | 0 ... +60 | 60 |

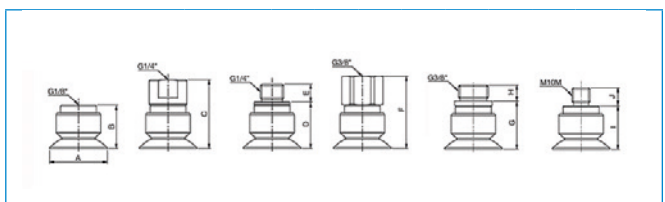
▶ DIMENSIONS

ZDF25



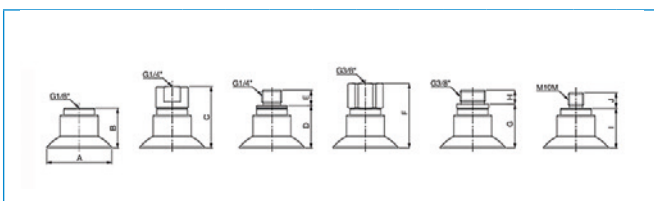
| Legend | A | B | C | D | E | F | G | H | I | J |
|-----------------|----|------|------|------|----|------|------|---|------|----|
| Dimensions [mm] | 26 | 25.2 | 39.2 | 26.8 | 10 | 41.2 | 27.7 | 9 | 25.2 | 10 |

ZDF30



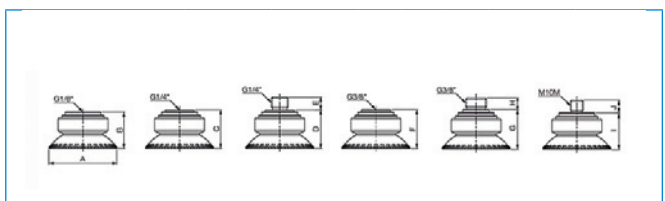
| Legend | A | B | C | D | E | F | G | H | I | J |
|-----------------|------|------|------|------|----|------|------|---|------|----|
| Dimensions [mm] | 32.2 | 24.3 | 38.3 | 25.9 | 10 | 40.3 | 26.8 | 9 | 24.3 | 10 |

ZDF40

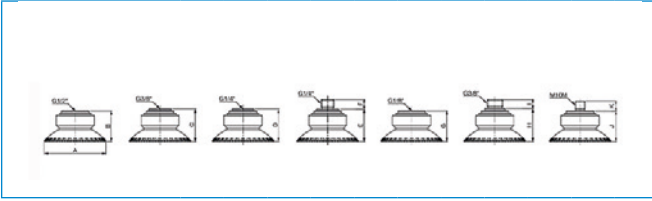


| Legend | A | B | C | D | E | F | G | H | I | J |
|-----------------|------|------|------|------|----|------|------|---|------|----|
| Dimensions [mm] | 42.5 | 26.1 | 40.1 | 27.7 | 10 | 42.1 | 28.6 | 9 | 26.1 | 10 |

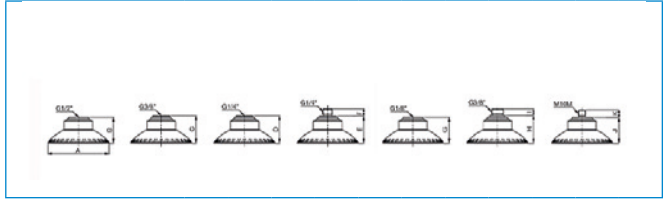
ZDF50



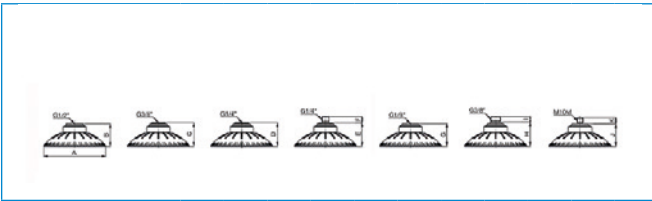
| Legend | A | B | C | D | E | F | G | H | I | J |
|-----------------|----|------|------|------|----|------|----|---|------|----|
| Dimensions [mm] | 53 | 28.5 | 30.2 | 30.1 | 10 | 30.5 | 31 | 9 | 25.8 | 10 |

ZDF60

| Legend | A | B | C | D | E | F | G | H | I | J | K |
|-----------------|----|------|------|------|------|----|------|----|---|------|----|
| Dimensions [mm] | 63 | 31.5 | 33.5 | 33.5 | 33.1 | 10 | 31.5 | 34 | 9 | 31.5 | 10 |

ZDF80

| Legend | A | B | C | D | E | F | G | H | I | J | K |
|-----------------|----|------|------|------|------|----|------|------|---|------|----|
| Dimensions [mm] | 83 | 35.1 | 37.1 | 37.1 | 36.7 | 10 | 35.1 | 37.6 | 9 | 35.1 | 10 |

ZDF100

| Legend | A | B | C | D | E | F | G | H | I | J | K |
|-----------------|-------|------|------|------|------|----|------|------|---|------|----|
| Dimensions [mm] | 103.7 | 37.8 | 39.8 | 39.8 | 39.4 | 10 | 37.8 | 40.3 | 9 | 37.8 | 10 |

► TECHNICAL DATA

| Installation size | ZDF25 | ZDF30 | ZDF40 | ZDF50 | ZDF60 | ZDF80 | ZDF100 |
|--|-------|-------|-------|--------|--------|--------|--------|
| Lifting force parallel at -20 kPa [kg] | 0.700 | 1.000 | 2.400 | 3.500 | 4.300 | 7.200 | 12.300 |
| Lifting force parallel at -60 kPa [kg] | 1.900 | 2.800 | 4.700 | 9.200 | 13.800 | 18.500 | 28.200 |
| Lifting force parallel -90 kPa [kg] | 2.900 | 3.800 | 7.100 | 18.500 | 24.500 | 27.000 | 39.600 |
| Lifting force vertical at -20 kPa [kg] | 1.400 | 1.800 | 2.700 | 4.100 | 5.600 | 8.600 | 12.600 |
| Lifting force vertical at -60 kPa [kg] | 3.000 | 4.400 | 6.200 | 10.100 | 13.700 | 21.200 | 30.800 |
| Lifting force vertical at -90 kPa [kg] | 4.100 | 5.700 | 8.300 | 14.000 | 19.000 | 29.300 | 41.700 |
| Volume [cm³] | 1.500 | 2.700 | 7.000 | 14.000 | 24.000 | 50.500 | 94.000 |

► Technical data

| Order no. | Diameter [mm] | Material | Fixing thread |
|---------------|---------------|-------------|----------------|
| ZDF25-PU | 25 | Polyurethan | |
| ZDF25-PU-14F | 25 | Polyurethan | G1/4" internal |
| ZDF25-PU-18F | 25 | Polyurethan | G1/8" internal |
| ZDF25-PU-M10M | 25 | Polyurethan | M10 external |
| ZDF30-PU | 30 | Polyurethan | |
| ZDF30-PU-14F | 30 | Polyurethan | G1/4" internal |
| ZDF30-PU-14M | 30 | Polyurethan | G1/4" external |
| ZDF30-PU-18F | 30 | Polyurethan | G1/8" internal |
| ZDF30-PU-M10M | 30 | Polyurethan | M10 external |
| ZDF40-PU | 40 | Polyurethan | |
| ZDF40-PU-14F | 40 | Polyurethan | G1/4" internal |
| ZDF40-PU-14M | 40 | Polyurethan | G1/4" external |
| ZDF40-PU-18F | 40 | Polyurethan | G1/8" internal |
| ZDF40-PU-M10M | 40 | Polyurethan | M10 external |
| ZDF50-PU | 50 | Polyurethan | |
| ZDF50-PU-14F | 50 | Polyurethan | G1/4" internal |
| ZDF50-PU-14M | 50 | Polyurethan | G1/4" external |
| ZDF50-PU-18F | 50 | Polyurethan | G1/8" internal |
| ZDF50-PU-38F | 50 | Polyurethan | G3/8" internal |
| ZDF50-PU-38M | 50 | Polyurethan | G3/8" external |
| ZDF50-PU-M10M | 50 | Polyurethan | M10 external |
| ZDF60-PU | 60 | Polyurethan | |
| ZDF60-PU-12F | 60 | Polyurethan | G1/2" internal |
| ZDF60-PU-14F | 60 | Polyurethan | G1/4" internal |
| ZDF60-PU-14M | 60 | Polyurethan | G1/4" external |

BELL-SHAPED SUCTION CUP

SERIES ZDF

| Order no. | ► Technical data | | |
|----------------|------------------|-------------|----------------|
| | Diameter [mm] | Material | Fixing thread |
| ZDF60-PU-18F | 60 | Polyurethan | G1/8" internal |
| ZDF60-PU-38F | 60 | Polyurethan | G3/8" internal |
| ZDF60-PU-38M | 60 | Polyurethan | G3/8" external |
| ZDF60-PU-M10M | 60 | Polyurethan | M10 external |
| ZDF80-PU | 80 | Polyurethan | |
| ZDF80-PU-12F | 80 | Polyurethan | G1/2" internal |
| ZDF80-PU-14F | 80 | Polyurethan | G1/4" internal |
| ZDF80-PU-14M | 80 | Polyurethan | G1/4" external |
| ZDF80-PU-18F | 80 | Polyurethan | G1/8" internal |
| ZDF80-PU-38F | 80 | Polyurethan | G3/8" internal |
| ZDF80-PU-38M | 80 | Polyurethan | G3/8" external |
| ZDF80-PU-M10M | 80 | Polyurethan | M10 external |
| ZDF100-PU | 100 | Polyurethan | |
| ZDF100-PU-12F | 100 | Polyurethan | G1/2" internal |
| ZDF100-PU-14M | 100 | Polyurethan | G1/4" external |
| ZDF100-PU-18F | 100 | Polyurethan | G1/8" internal |
| ZDF100-PU-38F | 100 | Polyurethan | G3/8" internal |
| ZDF100-PU-38M | 100 | Polyurethan | G3/8" external |
| ZDF100-PU-M10M | 100 | Polyurethan | M10 external |