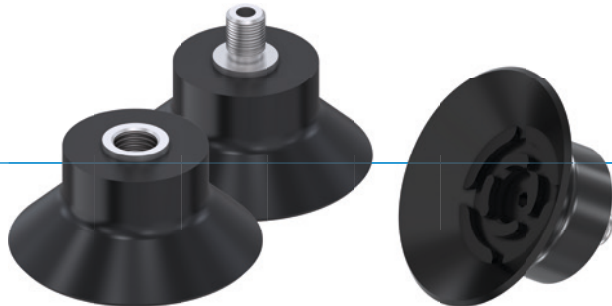


BELL-SHAPED SUCTION CUP

SERIES ZD

▶ PRODUCT ADVANTAGES



▶ Optimum geometry

- For irregular and convex surfaces
- Safe handling of the workpiece without vibration or shaking

▶ Application areas

- Metal
- Wood and composite materials
- Intralogistics

▶ PRODUCT KEY

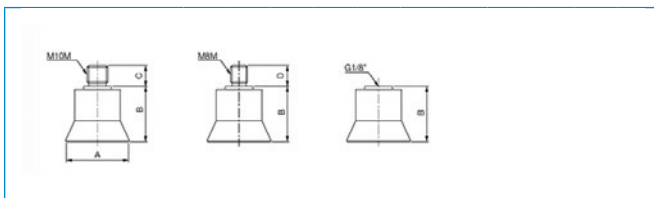
ZD	30	-	N	-	18F
Series	Diameter		Material		Fixing thread

▶ MATERIAL CHARACTERISTICS

Version	Material	Color	Operating temperature [°C]	Shore hardness
N	NBR	Black	-20 ... +110	60
PU	Polyurethane	Translucent orange	0 ... +60	60
S	Silicone	Red	-70 ... +200	55
WS	Silicone food-safe	Translucent white	-70 ... +200	55

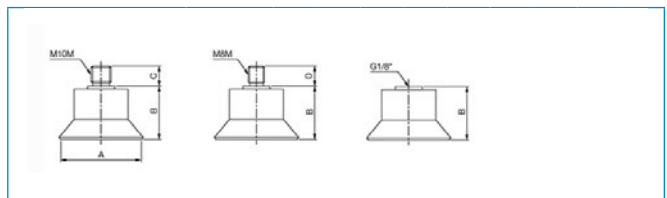
▶ DIMENSIONS

ZD30



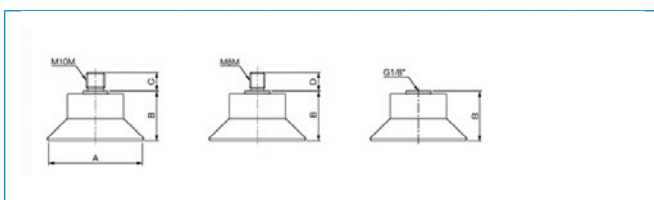
Legend	A	B	C	D
Dimensions [mm]	30	26.5	10	10

ZD40



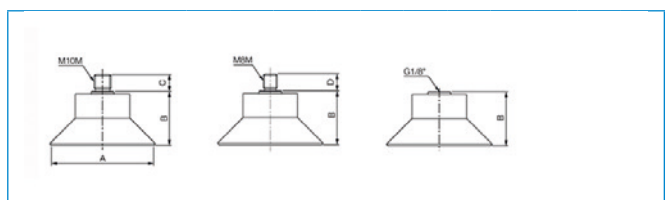
Legend	A	B	C	D
Dimensions [mm]	40	26.5	10	10

ZD50

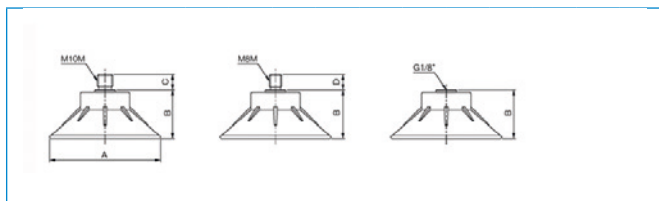
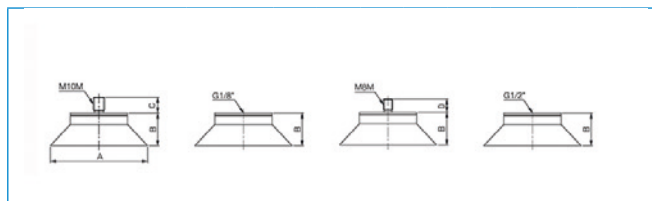
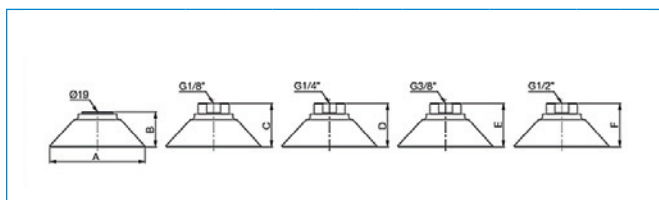


Legend	A	B	C	D
Dimensions [mm]	50	26.5	10	10

ZD60



Legend	A	B	C	D
Dimensions [mm]	60	31.5	10	10

ZD70**Legend****A B C D****Dimensions [mm]** 72 31.5 10 10**ZD85****Legend****A B C D****Dimensions [mm]** 85 28.8 13.7 11.6**ZD90****Legend****A B C D E F****Dimensions [mm]** 89.5 33 41 41 41 41

► TECHNICAL DATA

Installation size	ZD30	ZD40	ZD50	ZD60	ZD70	ZD85	ZD85	ZD90
Lifting force parallel at -20 kPa [N]	7.16	11.97	20.99	32.37	41.2	58.86	58.86	78.19
Lifting force parallel at -60 kPa [N]	15.01	23.35	43.75	82.4	113.8	164.81	164.81	141.46
Lifting force parallel at -90 kPa [N]	17.95	29.43	55.13	108.89	158.92	229.55	229.55	178.05
Lifting force vertical at -20 kPa [N]	11.97	20.01	35.02	53.96	70.14	98.1	98.1	90.74
Lifting force vertical at -60 kPa [N]	25.02	38.95	72.99	137.34	184.43	274.68	274.68	238.97
Lifting force vertical at -90 kPa [N]	30.02	49.05	92.02	181.49	244.27	382.59	382.59	315.59
Lifting force parallel at -20 kPa [kg]	0.730	1.220	2.140	3.300	4.200	6.000	6.000	7.970
Lifting force parallel at -60 kPa [kg]	1.530	2.380	4.460	8.400	11.600	16.800	16.800	14.420
Lifting force parallel at -90 kPa [kg]	1.830	3.000	5.620	11.100	16.200	23.400	23.400	18.150
Lifting force vertical at -20 kPa [kg]	1.220	2.040	3.570	5.500	7.150	10.000	10.000	9.250
Lifting force vertical at -60 kPa [kg]	2.550	3.970	7.440	14.000	18.800	28.000	28.000	24.360
Lifting force vertical at -90 kPa [kg]	3.060	5.000	9.380	18.500	24.900	39.000	39.000	32.170
Volume [cm³]	4.500	7.000	13.500	22.000	38.000	60.000	68.000	56.000

► Technical data

Order no.	Diameter [mm]	Material	Fixing thread
ZD30-N-18F	30	NBR	G1/8" internal
ZD30-N-M10M	30	NBR	M10 external
ZD30-N-M8M	30	NBR	M8 external
ZD30-PU-18F	30	Polyurethane	G1/8" internal
ZD30-PU-M10M	30	Polyurethane	M10 external
ZD30-PU-M8M	30	Polyurethane	M8 external
ZD30-S-18F	30	Silicone	G1/8" internal
ZD30-S-M10M	30	Silicone	M10 external
ZD30-S-M8M	30	Silicone	M8 external
ZD30-WS-18F	30	Silicone food-safe	G1/8" internal
ZD30-WS-M10M	30	Silicone food-safe	M10 external
ZD30-WS-M8M	30	Silicone food-safe	M8 external
ZD40-N-18F	40	NBR	G1/8" internal
ZD40-N-M10M	40	NBR	M10 external
ZD40-N-M8M	40	NBR	M8 external
ZD40-PU-18F	40	Polyurethane	G1/8" internal
ZD40-PU-M10M	40	Polyurethane	M10 external
ZD40-PU-M8M	40	Polyurethane	M8 external
ZD40-S-18F	40	Silicone	G1/8" internal

BELL-SHAPED SUCTION CUP

SERIES ZD

Order no.	► Technical data		
	Diameter [mm]	Material	Fixing thread
ZD40-S-M10M	40	Silicone	M10 external
ZD40-S-M8M	40	Silicone	M8 external
ZD40-WS-M10M	40	Silicone food-safe	M10 external
ZD40-WS-M8M	40	Silicone food-safe	M8 external
ZD50-N-18F	50	NBR	G1/8" internal
ZD50-N-M10M	50	NBR	M10 external
ZD50-N-M8M	50	NBR	M8 external
ZD50-PU-18F	50	Polyurethane	G1/8" internal
ZD50-PU-M10M	50	Polyurethane	M10 external
ZD50-PU-M8M	50	Polyurethane	M8 external
ZD50-S-18F	50	Silicone	G1/8" internal
ZD50-S-M10M	50	Silicone	M10 external
ZD50-S-M8M	50	Silicone	M8 external
ZD50-WS-18F	50	Silicone food-safe	G1/8" internal
ZD50-WS-M10M	50	Silicone food-safe	M10 external
ZD50-WS-M8M	50	Silicone food-safe	M8 external
ZD60-N-18F	60	NBR	G1/8" internal
ZD60-N-M10M	60	NBR	M10 external
ZD60-N-M8M	60	NBR	M8 external
ZD60-PU-18F	60	Polyurethane	G1/8" internal
ZD60-PU-M10M	60	Polyurethane	M10 external
ZD60-PU-M8M	60	Polyurethane	M8 external
ZD60-S-18F	60	Silicone	G1/8" internal
ZD60-S-M10M	60	Silicone	M10 external
ZD60-S-M8M	60	Silicone	M8 external
ZD60-WS-18F	60	Silicone food-safe	G1/8" internal
ZD60-WS-M10M	60	Silicone food-safe	M10 external
ZD60-WS-M8M	60	Silicone food-safe	M8 external
ZD70-PU-18F	70	Polyurethane	G1/8" internal
ZD70-PU-M10M	70	Polyurethane	M10 external
ZD70-PU-M8M	70	Polyurethane	M8 external
ZD85-N-12F	85	NBR	G1/2" internal
ZD85-N-18F	85	NBR	G1/8" internal
ZD85-N-M10M	85	NBR	M10 external
ZD85-N-M8M	85	NBR	M8 external
ZD85-S-12F	85	Silicone	G1/2" internal
ZD85-S-18F	85	Silicone	G1/8" internal
ZD90F-PU-12F	90	Polyurethane	G1/2" internal
ZD90F-PU-14F	90	Polyurethane	G1/4" internal
ZD90F-PU-18F	90	Polyurethane	G1/8" internal
ZD90F-PU-38F	90	Polyurethane	G3/8" internal