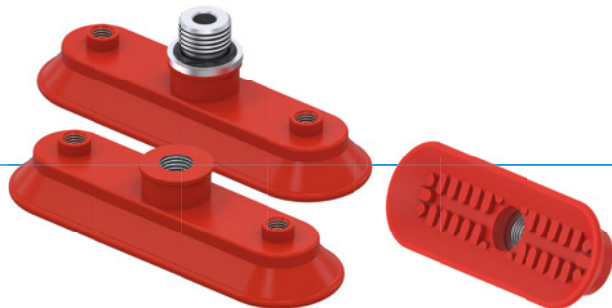


BELL-SHAPED SUCTION CUP

SERIES ZOC

► PRODUCT ADVANTAGES



► Optimum geometry

- For handling smooth, flat and slightly convex surfaces
- Profile structure on the underside of the suction cup for increased friction between the workpiece and vacuum suction cup

► Application areas

- Automotive
- Glass
- Wood and composite materials
- Metal

► PRODUCT KEY

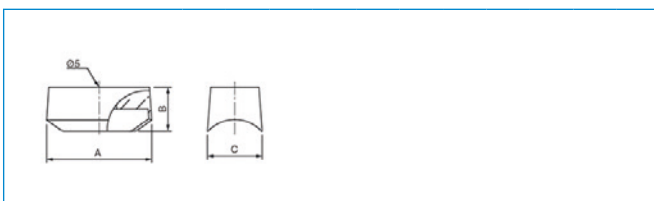
		-	N	-	14M
Series	Dimensions		Material		Fixing thread

► MATERIAL CHARACTERISTICS

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

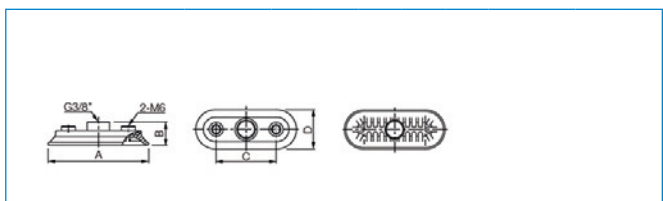
► DIMENSIONS

ZOC11X23



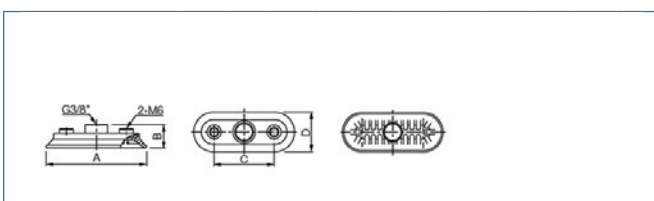
Legend	A	B	C
Dimensions [mm]	24	10	12.5

ZOC35X90



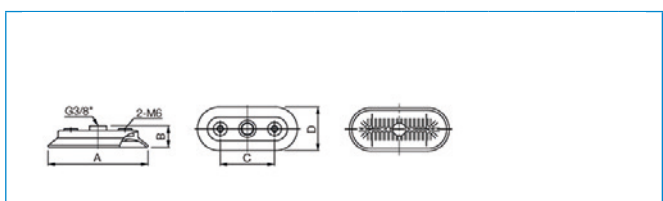
Legend	A	B	C	D
Dimensions [mm]	94	22	56	37

ZOC35X110

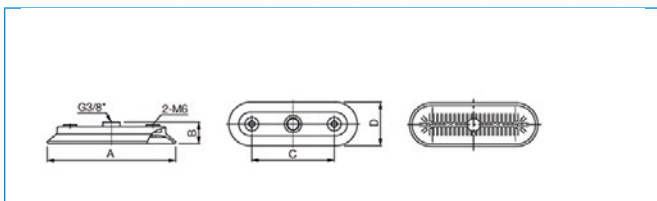


Legend	A	B	C	D
Dimensions [mm]	114	22	76	37

ZOC60X140



Legend	A	B	C	D
Dimensions [mm]	140	30	76	61

ZOC60X180**Legend****A B C D****Dimensions [mm]** 180 30 115.5 61► **TECHNICAL DATA**

Installation size	ZOC11X23	ZOC35X90	ZOC35X110	ZOC60X140	ZOC60X180
Lifting force parallel at -20 kPa [N]	5.89	39.24	49.05	105.16	149.9
Lifting force parallel at -60 kPa [N]	11.77	105.16	131.06	298.22	425.36
Lifting force parallel at -90 kPa [N]	14.72	136.56	170.3	415.94	594.09
Lifting force vertical at -20 kPa [N]	5.98	49.05	61.31	131.45	187.37
Lifting force vertical at -60 kPa [N]	12.75	131.45	163.83	372.78	531.7
Lifting force vertical at -90 kPa [N]	15.7	170.69	212.88	519.93	742.62
Lifting force parallel at -20 kPa [kg]	0.600	4.000	5.000	10.720	15.280
Lifting force parallel at -60 kPa [kg]	1.200	10.720	13.360	30.400	43.360
Lifting force parallel at -90 kPa [kg]	1.500	13.920	17.360	42.400	60.560
Lifting force vertical at -20 kPa [kg]	0.610	5.000	6.250	13.400	19.100
Lifting force vertical at -60 kPa [kg]	1.300	13.400	16.700	38.000	54.200
Lifting force vertical at -90 kPa [kg]	1.600	17.400	21.700	53.000	75.700
Volume [cm ³]	2.000	20.000	25.000	52.000	67.000

► **Technical data**

Order no.	Dimensions [mm]	Material	Fixing thread
ZOC11X23-N	11x23	NBR	
ZOC11X23-S	11x23	Silicone	
ZOC11X23-WS	11x23	Silicone food-safe	
ZOC35X90-N-38F	35x90	NBR	G3/8" internal
ZOC35X90-S-38F	35x90	Silicone	G3/8" internal
ZOC35X90-WS-38F	35x90	Silicone food-safe	G3/8" internal
ZOC35X110-N-38F	35x11	NBR	G3/8" internal
ZOC35X110-S-38F	35x11	Silicone	G3/8" internal
ZOC60X140-N-38F	60x140	NBR	G3/8" internal
ZOC60X140-S-38F	60x140	Silicone	G3/8" internal
ZOC60X140-WS-38F	60x140	Silicone food-safe	G3/8" internal
ZOC60X180-N-38F	60x180	NBR	G3/8" internal
ZOC60X180-S-38F	60x180	Silicone	G3/8" internal