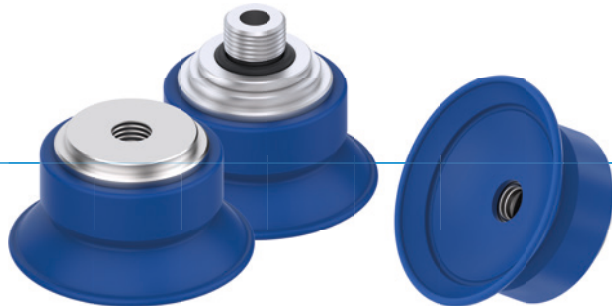


FLAT SUCTION CUP

SERIES ZFCF

PRODUCT ADVANTAGES



Optimum geometry

- For thin, oily metal plates and car body panels
- Profile structure on the underside of the suction cup for increased friction between the workpiece and vacuum suction cup
- Safe handling with high-speed applications without deforming the sheet metal

Application areas

- Automotive
- Glass
- Wood and composite materials

PRODUCT KEY

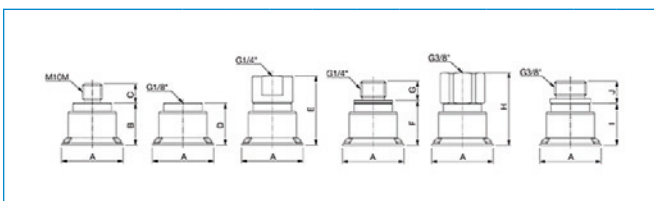
ZFCF	30	-	N	-	14F
Series	Diameter		Material		Fixing thread

MATERIAL CHARACTERISTICS

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

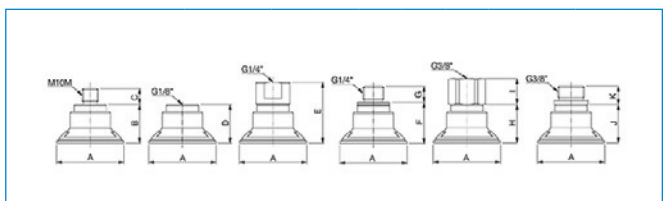
DIMENSIONS

ZFCF30



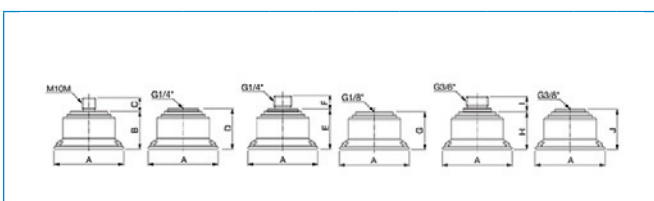
Legend	A	B	C	D	E	F	G	H	I	J
Dimensions [mm]	32	22	10	22	36	23.6	10	38	22	11.5

ZFCF40



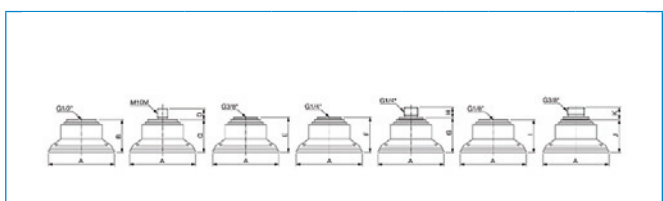
Legend	A	B	C	D	E	F	G	H	I	J	K
Dimensions [mm]	42	24	10	24	38	25.6	10	24	16	24	11.5

ZFCF50

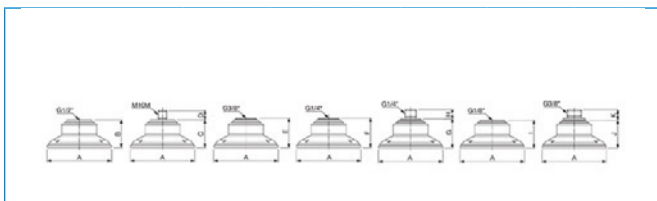


Legend	A	B	C	D	E	F	G	H	I	J
Dimensions [mm]	52	28	10	30	29.6	10	28	28	11.5	30

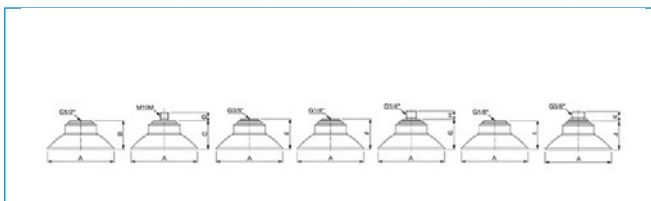
ZFCF60



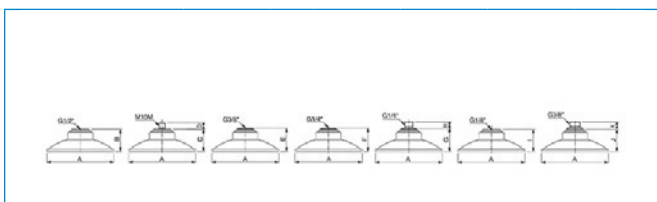
Legend	A	B	C	D	E	F	G	H	I	J	K
Dimensions [mm]	62	31	31	10	33	33	32.6	10	31	31	11.5

ZFCF70

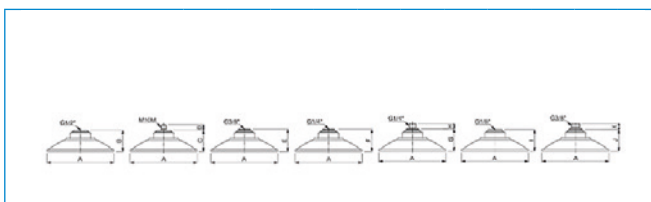
Legend	A	B	C	D	E	F	G	H	I	J	K
Dimensions [mm]	72	31	31	10	33	33	32.6	10	31	31	11.5

ZFCF80

Legend	A	B	C	D	E	F	G	H	I	J	K
Dimensions [mm]	82.5	35.5	35.5	10	37.5	37.5	37.1	10	35.5	35.5	11.5

ZFCF100

Legend	A	B	C	D	E	F	G	H	I	J	K
Dimensions [mm]	104	34.5	34.5	10	36.5	36.5	36	10	34.5	34.5	11.5

ZFCF125

Legend	A	B	C	D	E	F	G	H	I	J	K
Dimensions [mm]	128	41	41	10	43	43	42.6	10	41	41	11.5

TECHNICAL DATA

Installation size	ZFCF30	ZFCF40	ZFCF50	ZFCF60	ZFCF70	ZFCF80	ZFCF100	ZFCF125
Lifting force parallel at -20 kPa [N]	7.85	20.6	36.3	53.96	61.8	65.73	133.42	187.37
Lifting force parallel at -60 kPa [N]	19.62	49.05	65.73	130.47	155	173.64	347.27	416.93
Lifting force parallel at -90 kPa [N]	28.45	70.63	87.31	163.83	197.18	233.48	428.7	636.67
Lifting force vertical at -20 kPa [N]	19.62	28.45	41.2	54.94	74.56	101.04	144.21	190.31
Lifting force vertical at -60 kPa [N]	45.13	67.69	105.95	149.11	192.28	254.08	363.95	436.55
Lifting force vertical at -90 kPa [N]	62.78	97.12	151.07	218.76	276.64	337.46	496.39	568
Lifting force parallel at -20 kPa [kg]	0.800	2.100	3.700	5.500	6.300	6.700	13.600	19.100
Lifting force parallel at -60 kPa [kg]	2.000	5.000	6.700	13.300	15.800	17.700	35.400	42.500
Lifting force parallel at -90 kPa [kg]	2.900	7.200	8.900	16.700	20.100	23.800	43.700	64.900
Lifting force vertical at -20 kPa [kg]	2.000	2.900	4.200	5.600	7.600	10.300	14.700	19.400
Lifting force vertical at -60 kPa [kg]	4.600	6.900	10.800	15.200	19.600	25.900	37.100	44.500
Lifting force vertical at -90 kPa [kg]	6.400	9.900	15.400	22.300	28.200	34.400	50.600	57.900
Volume [cm³]	2.000	4.400	8.000	14.600	20.700	36.000	58.000	115.000

Technical data

Order no.	Diameter [mm]	Material	Fixing thread
ZFCF30-N	30	NBR	
ZFCF30-N-14F	30	NBR	G1/4" internal
ZFCF30-N-18F	30	NBR	G1/8" internal
ZFCF30-N-M10M	30	NBR	M10 external
ZFCF30-PU	30	Polyurethane	
ZFCF30-PU-14F	30	Polyurethane	G1/4" internal
ZFCF30-PU-14M	30	Polyurethane	G1/4" external
ZFCF30-PU-18F	30	Polyurethane	G1/8" internal
ZFCF30-PU-M10M	30	Polyurethane	M10 external
ZFCF30-S	30	Silicone	
ZFCF30-S-14F	30	Silicone	G1/4" internal
ZFCF30-S-14M	30	Silicone	G1/4" external
ZFCF30-S-18F	30	Silicone	G1/8" internal
ZFCF40-N	40	NBR	
ZFCF40-N-14F	40	NBR	G1/4" internal
ZFCF40-N-18F	40	NBR	G1/8" internal
ZFCF40-N-M10M	40	NBR	M10 external
ZFCF40-PU	40	Polyurethane	
ZFCF40-PU-14F	40	Polyurethane	G1/4" internal

FLAT SUCTION CUP

SERIES ZFCF

Order no.	► Technical data		
	Diameter [mm]	Material	Fixing thread
ZFCF40-PU-14M	40	Polyurethane	G1/4" external
ZFCF40-PU-18F	40	Polyurethane	G1/8" internal
ZFCF40-PU-38M	40	Polyurethane	G3/8" external
ZFCF40-PU-M10M	40	Polyurethane	M10 external
ZFCF40-S	40	Silicone	
ZFCF40-S-18F	40	Silicone	G1/8" internal
ZFCF40-S-M10M	40	Silicone	M10 external
ZFCF50-N	50	NBR	
ZFCF50-N-18F	50	NBR	G1/8" internal
ZFCF50-N-38F	50	NBR	G3/8" internal
ZFCF50-N-38M	50	NBR	G3/8" external
ZFCF50-N-M10M	50	NBR	M10 external
ZFCF50-PU	50	Polyurethane	
ZFCF50-PU-14F	50	Polyurethane	G1/4" internal
ZFCF50-PU-14M	50	Polyurethane	G1/4" external
ZFCF50-PU-18F	50	Polyurethane	G1/8" internal
ZFCF50-PU-38F	50	Polyurethane	G3/8" internal
ZFCF50-PU-38M	50	Polyurethane	G3/8" external
ZFCF50-PU-M10M	50	Polyurethane	M10 external
ZFCF50-S	50	Silicone	
ZFCF50-S-14F	50	Silicone	G1/4" internal
ZFCF50-S-18F	50	Silicone	G1/8" internal
ZFCF50-S-M10M	50	Silicone	M10 external
ZFCF60-N	60	NBR	
ZFCF60-N-12F	60	NBR	G1/2" internal
ZFCF60-N-14F	60	NBR	G1/4" internal
ZFCF60-N-18F	60	NBR	G1/8" internal
ZFCF60-N-38F	60	NBR	G3/8" internal
ZFCF60-N-38M	60	NBR	G3/8" external
ZFCF60-N-M10M	60	NBR	M10 external
ZFCF60-PU	60	Polyurethane	
ZFCF60-PU-12F	60	Polyurethane	G1/2" internal
ZFCF60-PU-14F	60	Polyurethane	G1/4" internal
ZFCF60-PU-14M	60	Polyurethane	G1/4" external
ZFCF60-PU-18F	60	Polyurethane	G1/8" internal
ZFCF60-PU-38F	60	Polyurethane	G3/8" internal
ZFCF60-PU-38M	60	Polyurethane	G3/8" external
ZFCF60-PU-M10M	60	Polyurethane	M10 external
ZFCF60-S	60	Silicone	
ZFCF60-S-12F	60	Silicone	G1/2" internal
ZFCF60-S-14M	60	Silicone	G1/4" external
ZFCF60-S-38F	60	Silicone	G3/8" internal
ZFCF60-S-38M	60	Silicone	G3/8" external
ZFCF60-S-M10M	60	Silicone	M10 external
ZFCF70-N-12F	70	NBR	G1/2" internal
ZFCF70-N-14M	70	NBR	G1/4" external
ZFCF70-N-18F	70	NBR	G1/8" internal
ZFCF70-N-38F	70	NBR	G3/8" internal
ZFCF70-N-M10M	70	NBR	M10 external
ZFCF70-PU	70	Polyurethane	
ZFCF70-PU-12F	70	Polyurethane	G1/2" internal
ZFCF70-PU-14M	70	Polyurethane	G1/4" external
ZFCF70-PU-18F	70	Polyurethane	G1/8" internal
ZFCF70-PU-38F	70	Polyurethane	G3/8" internal
ZFCF70-PU-38M	70	Polyurethane	G3/8" external
ZFCF70-PU-M10M	70	Polyurethane	M10 external
ZFCF70-S	70	Silicone	
ZFCF70-S-12F	70	Silicone	G1/2" internal
ZFCF70-S-14M	70	Silicone	G1/4" external
ZFCF80-N	80	NBR	

Order no.	► Technical data		
	Diameter [mm]	Material	Fixing thread
ZFCF80-N-12F	80	NBR	G1/2" internal
ZFCF80-N-14M	80	NBR	G1/4" external
ZFCF80-N-18F	80	NBR	G1/8" internal
ZFCF80-N-38F	80	NBR	G3/8" internal
ZFCF80-N-M10M	80	NBR	M10 external
ZFCF80-PU	80	Polyurethane	
ZFCF80-PU-12F	80	Polyurethane	G1/2" internal
ZFCF80-PU-14F	80	Polyurethane	G1/4" internal
ZFCF80-PU-14M	80	Polyurethane	G1/4" external
ZFCF80-PU-18F	80	Polyurethane	G1/8" internal
ZFCF80-PU-38F	80	Polyurethane	G3/8" internal
ZFCF80-PU-38M	80	Polyurethane	G3/8" external
ZFCF80-PU-M10M	80	Polyurethane	M10 external
ZFCF80-S	80	Silicone	
ZFCF80-S-12F	80	Silicone	G1/2" internal
ZFCF80-S-14M	80	Silicone	G1/4" external
ZFCF80-S-18F	80	Silicone	G1/8" internal
ZFCF80-S-38F	80	Silicone	G3/8" internal
ZFCF100-N	100	NBR	
ZFCF100-N-12F	100	NBR	G1/2" internal
ZFCF100-N-14F	100	NBR	G1/4" internal
ZFCF100-N-14M	100	NBR	G1/4" external
ZFCF100-N-18F	100	NBR	G1/8" internal
ZFCF100-N-38F	100	NBR	G3/8" internal
ZFCF100-N-M10M	100	NBR	M10 external
ZFCF100-PU	100	Polyurethane	
ZFCF100-PU-12F	100	Polyurethane	G1/2" internal
ZFCF100-PU-14F	100	Polyurethane	G1/4" internal
ZFCF100-PU-14M	100	Polyurethane	G1/4" external
ZFCF100-PU-18F	100	Polyurethane	G1/8" internal
ZFCF100-PU-38F	100	Polyurethane	G3/8" internal
ZFCF100-PU-38M	100	Polyurethane	G3/8" external
ZFCF100-PU-M10M	100	Polyurethane	M10 external
ZFCF100-S	100	Silicone	
ZFCF100-S-12F	100	Silicone	G1/2" internal
ZFCF100-S-38M	100	Silicone	G3/8" external
ZFCF125-N	125	NBR	
ZFCF125-N-12F	125	NBR	G1/2" internal
ZFCF125-N-18F	125	NBR	G1/8" internal
ZFCF125-N-38F	125	NBR	G3/8" internal
ZFCF125-N-38M	125	NBR	G3/8" external
ZFCF125-N-M10M	125	NBR	M10 external
ZFCF125-PU	125	Polyurethane	
ZFCF125-PU-12F	125	Polyurethane	G1/2" internal
ZFCF125-PU-14F	125	Polyurethane	G1/4" internal
ZFCF125-PU-14M	125	Polyurethane	G1/4" external
ZFCF125-PU-18F	125	Polyurethane	G1/8" internal
ZFCF125-PU-38F	125	Polyurethane	G3/8" internal
ZFCF125-PU-38M	125	Polyurethane	G3/8" external
ZFCF125-PU-M10M	125	Polyurethane	M10 external
ZFCF125-S	125	Silicone	
ZFCF125-S-12F	125	Silicone	G1/2" internal
ZFCF125-S-38F	125	Silicone	G3/8" internal
ZFCF125-S-M10M	125	Silicone	M10 external