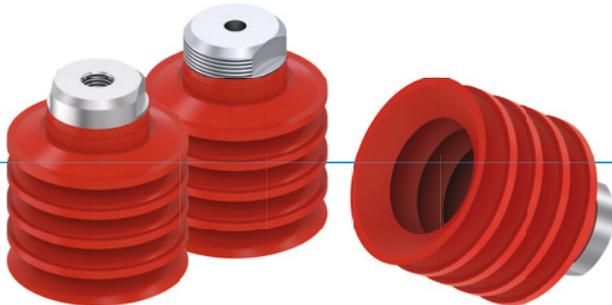# BELLOWS SUCTION CUP
SERIES ZBL

▶ PRODUCT ADVANTAGES

▶ **Diameter: 10 mm–50 mm**

▶ **Optimum geometry**
- For handling flexible workpieces
- Height compensation and damping function with up to 4.5 folds

▶ **Application areas**
- Packaging
- Consumer goods
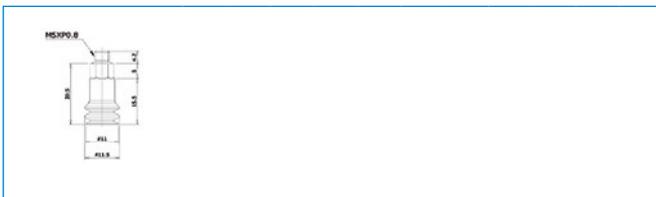- Intralogistics

▶ PRODUCT KEY

ZBL	30	-	N	-	14M	-	M
Series	Diameter		Material		Fixing thread		Filter type

▶ 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

ZBL10

Legend	A	B	C
Dimensions [mm]	42		38.5

ZBL15

Legend	A	B	C	D	E
Dimensions [mm]	15.5	9	21	4.2	25

ZBL20
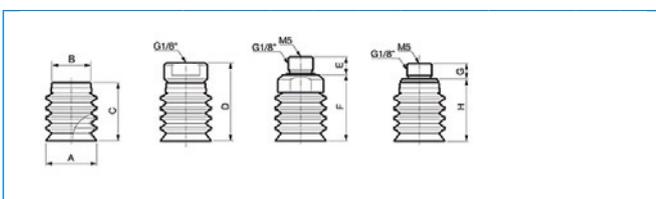
Legend	A	B	C	D	E	F	G	H
Dimensions [mm]	20	14	23	31	7	26	6	22.5

ZBL30
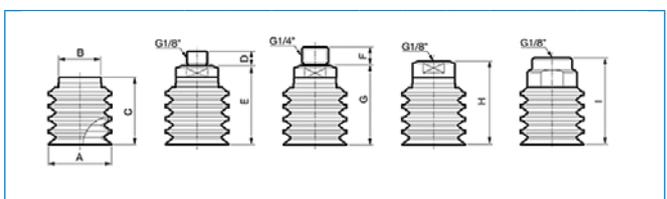
Legend	A	B	C	D	E	F	G	H	I
Dimensions [mm]	30	20	32	7	37	9	37.8	40	41

ZBL40										ZBL50								
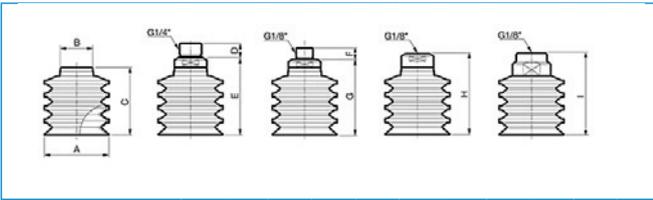
Legend	A	B	C	D	E	F	G	H	I
Dimensions [mm]	40	20	42	9	48	7	47	50	51
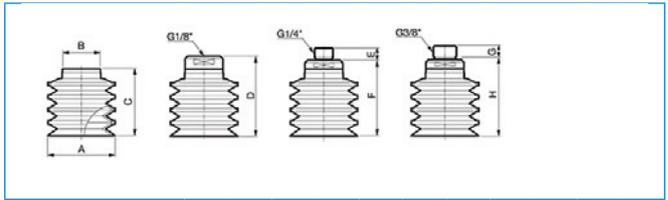
Legend	A	B	C	D	E	F	G	H
Dimensions [mm]	50	28	50	60	9	58	10	58

► TECHNICAL DATA

Installation size	ZBL10	ZBL15	ZBL20	ZBL30	ZBL40	ZBL40	ZBL50
Lifting force parallel at -20 kPa [kg]							
Lifting force parallel at -60 kPa [kg]							
Lifting force parallel at -90 kPa [kg]							
Lifting force vertical at -20 kPa [kg]	0.150	0.300	0.400	0.900	1.900	1.400	2.500
Lifting force vertical at -60 kPa [kg]	0.340	0.600	0.900	2.200	4.300	3.600	6.000
Lifting force vertical at -90 kPa [kg]							
Volume [cm³]	0.540	1.950	4.000	13.000	26.000	27.000	55.000

► Technical data

Order no.	Diameter [mm]	Material	Fixing thread	Filter type
ZBL10-N	10	NBR		
ZBL10-N-M5M	10	NBR	M5 external	
ZBL10-S	10	Silicone		
ZBL10-S-M5M	10	Silicone	M5 external	
ZBL10-WS	10	Silicone food-safe		
ZBL15-N	15	NBR		
ZBL15-N-M5M	15	NBR	M5 external	
ZBL15-S	15	Silicone		
ZBL15-S-M5M	15	Silicone	M5 external	
ZBL15-WS	15	Silicone food-safe		
ZBL15-WS-M5M	15	Silicone food-safe	M5 external	
ZBL20-N	20	NBR		
ZBL20-N-18F	20	NBR	G1/8" internal	
ZBL20-N-18F-M	20	NBR	G1/8" internal	Mesh filter
ZBL20-N-M5F18M	20	NBR	M5 internal - G1/8" external	
ZBL20-S	20	Silicone		
ZBL20-S-18F	20	Silicone	G1/8" internal	
ZBL20-S-M5F18M	20	Silicone	M5 internal - G1/8" external	
ZBL20-S-M5F18MB	20	Silicone	M5 internal - G1/8" external	
ZBL20-S-M5F18M-M	20	Silicone	M5 internal - G1/8" external	Mesh filter
ZBL20-WS	20	Silicone food-safe		
ZBL20-WS-18F	20	Silicone food-safe	G1/8" internal	
ZBL20-WS-M5F18M	20	Silicone food-safe	M5 internal - G1/8" external	
ZBL30-N	30	NBR		
ZBL30-N-14M	30	NBR	G1/4" external	
ZBL30-N-14M-M	30	NBR	G1/4" external	Mesh filter
ZBL30-N-18F	30	NBR	G1/8" internal	
ZBL30-N-18F-M	30	NBR	G1/8" internal	Mesh filter
ZBL30-N-18M	30	NBR	G1/8" external	
ZBL30-N-18M-M	30	NBR	G1/8" external	Mesh filter
ZBL30-S	30	Silicone		
ZBL30-S-14M	30	Silicone	G1/4" external	
ZBL30-S-14M-M	30	Silicone	G1/4" external	Mesh filter
ZBL30-S-18F	30	Silicone	G1/8" internal	
ZBL30-S-18FB	30	Silicone	G1/8" internal	
ZBL30-S-18F-M	30	Silicone	G1/8" internal	Mesh filter
ZBL30-S-18M	30	Silicone	G1/8" external	

BELLOWS SUCTION CUP
SERIES ZBL

Order no.	► Technical data			
	Diameter [mm]	Material	Fixing thread	Filter type
ZBL30-WS	30	Silicone food-safe		
ZBL30-WS-14M	30	Silicone food-safe	G1/4" external	
ZBL30-WS-18F	30	Silicone food-safe	G1/8" internal	
ZBL30-WS-18FB	30	Silicone food-safe	G1/8" internal	
ZBL30-WS-18M	30	Silicone food-safe	G1/8" external	
ZBL40-N	40	NBR		
ZBL40-N-14M	40	NBR	G1/4" external	
ZBL40-N-14M-M	40	NBR	G1/4" external	Mesh filter
ZBL40-N-18F	40	NBR	G1/8" internal	
ZBL40-N-18F-M	40	NBR	G1/8" internal	Mesh filter
ZBL40-N-18M	40	NBR	G1/8" external	
ZBL40-N-18M-M	40	NBR	G1/8" external	Mesh filter
ZBL40-S	40	Silicone		
ZBL40-S-14M	40	Silicone	G1/4" external	
ZBL40-S-14M-M	40	Silicone	G1/4" external	Mesh filter
ZBL40-S-18F	40	Silicone	G1/8" internal	
ZBL40-S-18FB	40	Silicone	G1/8" internal	
ZBL40-S-18F-M	40	Silicone	G1/8" internal	Mesh filter
ZBL40-S-18M	40	Silicone	G1/8" external	
ZBL40-WS	40	Silicone food-safe		
ZBL40-WS-14M	40	Silicone food-safe	G1/4" external	
ZBL40-WS-18F	40	Silicone food-safe	G1/8" internal	
ZBL50-N	50	NBR		
ZBL50-N-14M	50	NBR	G1/4" external	
ZBL50-N-18F	50	NBR	G1/8" internal	
ZBL50-N-18F-M	50	NBR	G1/8" internal	Mesh filter
ZBL50-N-38M	50	NBR	G3/8" external	
ZBL50-S	50	Silicone		
ZBL50-S-14M	50	Silicone	G1/4" external	
ZBL50-S-18F	50	Silicone	G1/8" internal	
ZBL50-S-18F-M	50	Silicone	G1/8" internal	Mesh filter
ZBL50-S-38M	50	Silicone	G3/8" external	
ZBL50-S-38MB2	50	Silicone	G3/8" external	
ZBL50-S-38MB2-M	50	Silicone	G3/8" external	Mesh filter
ZBL50-S-38M-M	50	Silicone	G3/8" external	Mesh filter
ZBL50-WS	50	Silicone food-safe		
ZBL50-WS-18F	50	Silicone food-safe	G1/8" internal	
ZBL50-WS-38M	50	Silicone food-safe	G3/8" external	