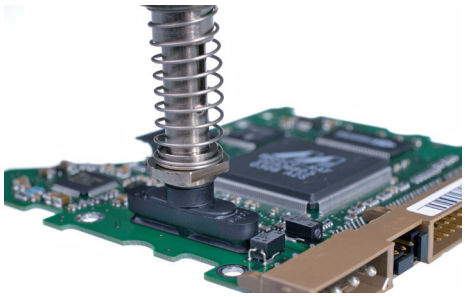
Oval vacuum cups, flat – SO-E



Product notes

Small flat vacuum cups in oval design for elongated workpieces where only minimal space is available (e.g. semiconductors, carrier plates, etc.). Connection via an interlocking snap-in plug-in nipple.

Advantage

- Significantly increased suction force compared to round vacuum cups of the same width
- Optimum bending strength due to elongated carrier plate in the plug-in nipple
- Secured against rotation
- Cost-effective replacement of worn seals

Ordering notes

The cups are delivered fully assembled with fitting.

Notes:

Material NBR-AS (anti-static): 65° ShoreA; volume resistance = 200 Ohm•cm

Technical data

Item no.	Model	Connection thread		Material / Color
130.10x4.115._*	SO-E-10x4	M5-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.10x4.068._*	SO-E-10x4	M6-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.10x5.116._*	SO-E-10x5	M5-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.10x5.071._*	SO-E-10x5	M6-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.10x6.117._*	SO-E-10x6	M5-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.10x6.073._*	SO-E-10x6	M6-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.20x4.118._*	SO-E-20x4	M5-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.20x4.069._*	SO-E-20x4	M6-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.20x5.119._*	SO-E-20x5	M5-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.20x5.081._*	SO-E-20x5	M6-male	0.9	NBR (sw), NBR-AS (sw)
130.20x6.120._*	SO-E-20x6	M5-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.20x6.074._*	SO-E-20x6	M6-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.20x8.121._*	SO-E-20x8	M5-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.20x8.076._*	SO-E-20x8	M6-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.30x5.123._*	SO-E-30x5	M5-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.30x5.072._*	SO-E-30x5	M6-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.30x6.124._*	SO-E-30x6	M5-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.30x6.075._*	SO-E-30x6	M6-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.30x8.125._*	SO-E-30x8	M5-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)
130.30x8.077._*	SO-E-30x8	M6-male	0.9	NBR (sw), NBR-AS (sw), SI (tr)

Accessories

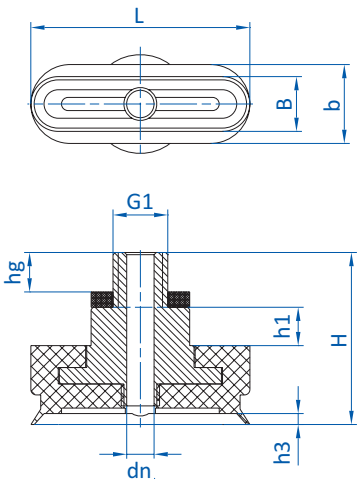
Spare vacuum cup:
132.10x4.003._*
132.10x4.003._*
132.10x5.007._*
132.10x5.007._*
132.10x6.011._*
132.10x6.011._*
132.20x4.005._*
132.20x4.005._*
132.20x5.009._*
132.20x5.009._*
132.20x6.013._*
132.20x6.013._*
132.20x8.015._*
132.20x8.015._*
132.30x5.010._*
132.30x5.010._*
132.30x6.014._*
132.30x6.014._*
132.30x8.017._*
132.30x8.017._*

*** When ordering please add the appropriate material code to item no. You will find it on www.fipa.com.**

Accessories

Item no.	Spring leveler		Hose outside Ø	Spring leveler		Hose outside Ø	Spring leveler		Hose outside Ø	Spring leveler		Hose outside Ø
130.10x4.115._*	50.152	10	--	50.153	20	--	--	--	--	--	--	--
130.10x4.068._*	50.095	19.5	6	50.096	30	6	50.097	39	6	50.098	49.5	6
130.10x5.116._*	50.152	10	--	50.153	20	--	--	--	--	--	--	--
130.10x5.071._*	50.095	19.5	6	50.096	30	6	50.097	39	6	50.098	49.5	6
130.10x6.117._*	50.152	10	--	50.153	20	--	--	--	--	--	--	--
130.10x6.073._*	50.095	19.5	6	50.096	30	6	50.097	39	6	50.098	49.5	6
130.20x4.118._*	50.152	10	--	50.153	20	--	--	--	--	--	--	--
130.20x4.069._*	50.095	19.5	6	50.096	30	6	50.097	39	6	50.098	49.5	6
130.20x5.119._*	50.152	10	--	50.153	20	--	--	--	--	--	--	--
130.20x5.081._*	50.095	19.5	6	50.096	30	6	50.097	39	6	50.098	49.5	6
130.20x6.120._*	50.152	10	--	50.153	20	--	--	--	--	--	--	--
130.20x6.074._*	50.095	19.5	6	50.096	30	6	50.097	39	6	50.098	49.5	6
130.20x8.121._*	50.152	10	--	50.153	20	--	--	--	--	--	--	--
130.20x8.076._*	50.095	19.5	6	50.096	30	6	50.097	39	6	50.098	49.5	6
130.30x5.123._*	50.152	10	--	50.153	20	--	--	--	--	--	--	--
130.30x5.072._*	50.095	19.5	6	50.096	30	6	50.097	39	6	50.098	49.5	6
130.30x6.124._*	50.152	10	--	50.153	20	--	--	--	--	--	--	--
130.30x6.075._*	50.095	19.5	6	50.096	30	6	50.097	39	6	50.098	49.5	6
130.30x8.125._*	50.152	10	--	50.153	20	--	--	--	--	--	--	--
130.30x8.077._*	50.095	19.5	6	50.096	30	6	50.097	39	6	50.098	49.5	6

Dimensions



Item no.	L [mm]	B [mm]	b [mm]	Ø dn [mm]	G1	H [mm]	h1 [mm]	h3 [mm]	hg [mm]
130.10x4.115._*	10	4.6	7	2.5	M5	15.5	3.5	1	3.6
130.10x4.068._*	10	4.6	7	2	M6	15.5	3.5	1	4
130.10x5.116._*	10	5	7	2.5	M5	15.5	3.5	1	3.6
130.10x5.071._*	10	5	7	2	M6	15.5	3.5	1	4

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Vacuum cups | Oval vacuum cups series

Oval vacuum cups, flat – SO-E

Item no.	**L** [mm]	**B** [mm]	**b** [mm]	**Ø dn** [mm]	**G1**	**H** [mm]	**h1** [mm]	**h3** [mm]	**hg** [mm]
130.10x6.117._*	10	6	7	2.5	M5	15.5	3.5	1	3.6
130.10x6.073._*	10	6	7	2	M6	15.5	3.5	1	4
130.20x4.118._*	20	4.3	7	2.5	M5	15.5	3.5	1	3.6
130.20x4.069._*	20	4.3	7	2	M6	15.5	3.5	1	4
130.20x5.119._*	20	5	7	2.5	M5	15.5	3.5	1	3.6
130.20x5.081._*	20	5	7	2	M6	15.5	3.5	1	4
130.20x6.120._*	20	6	7	2.5	M5	15.5	3.5	1	3.6
130.20x6.074._*	20	6	7	2	M6	15.5	3.5	1	4
130.20x8.121._*	20	8	8	2.5	M5	15.5	3.5	1	3.6
130.20x8.076._*	20	8	8	2	M6	15.5	3.5	1	4
130.30x5.123._*	30	5	7	2.5	M5	15.5	3.5	1	3.6
130.30x5.072._*	30	5	7	2	M6	15.5	3.5	1	4
130.30x6.124._*	30	6	7	2.5	M5	15.5	3.5	1	3.6
130.30x6.075._*	30	6	7	2	M6	15.5	3.5	1	4
130.30x8.125._*	30	8	8	2.5	M5	15.5	3.5	1	3.6
130.30x8.077._*	30	8	8	2	M6	15.5	3.5	1	4

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