

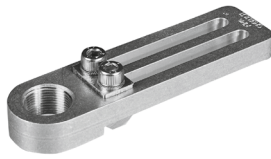
Threaded connectors	501
Valves	506
Filter discs	512
Rings and clamps	513



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



NEW



Angle connectors, adjustable – for spring plungers
Integration of vacuum cups into gripper systems via the spring plunger

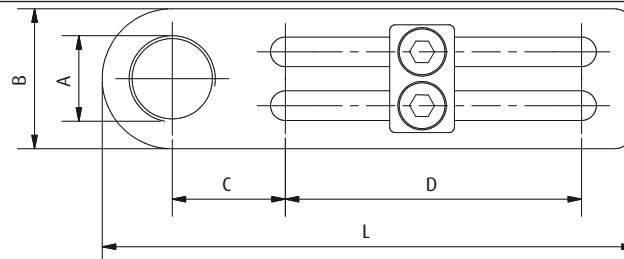
Product Description

- > Compatible with commercially available spring plungers
- > Particularly compatible with FIPA Heavy-Duty spring plungers
- > Channel nuts included in the delivery

Technical Data

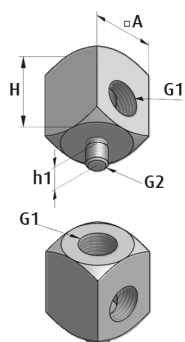
Item no.	Weight [g]	Dimensions				
		A	B [mm]	C [mm]	D [mm]	L [mm]
GR02.230	29	G1/8	20	17	45	82
GR02.231	55	M16x1	26	21	55	99
GR02.232	63	M20x1,5	28	21	65	110

Dimensions





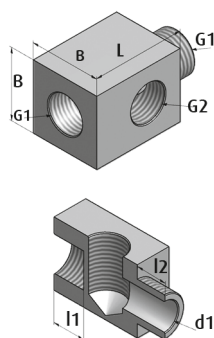
Elbow connection AG, Series SZ-WAA



Dimensions

Item no.	G1 (female)	G2 (male)	H [mm]	h1 [mm]	A [mm]
GR07.010	G1/8	M5	20	6	16
GR07.011	G1/4	M6	33	10	25
GR07.012	G1/4	M8	33	10	25

Elbow connection IG, Series SZ-WAI

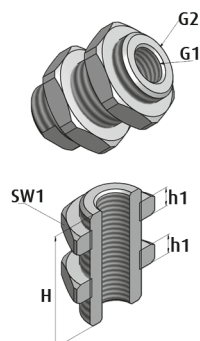


Dimensions

Item no.	G1 (female + male)	G2 (female)	Ø d1 [mm]	L [mm]	B [mm]	I1 [mm]	I2 [mm]
270.395	G1/8	G1/8	6,6	21	16	6	7
270.396	G1/4	G1/8	8	26	18	10	10
270.397	G1/2	G3/8	10	35	24	12	10

Bulkhead connector, Series SZ-SVS

Allows for height adjustment during vacuum cup installation

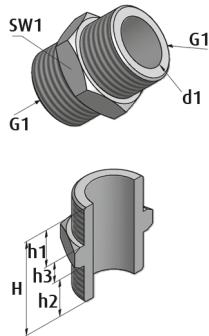


Dimensions

Item no.	G1 (female)	G2 (male)	H [mm]	h1 [mm]	SW1
270.518	G1/8	M16x1	30	5	22
270.519	G1/4	M20x1.5	30	5	24



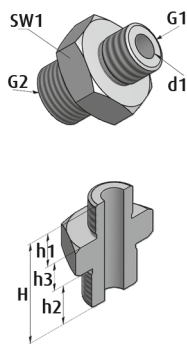
Double nipples, identical thread, Series SZ-GA-MM



Dimensions

Item no.	G1 (male)	H [mm]	h1 [mm]	h2 [mm]	h3 [mm]	Ø d1 [mm]	SW1
270.420	M5	13	5	5	3	2,5	7
270.059	G1/8	18	7	7	4	5	14
270.191	G1/4	21	8	8	5	8	17
270.121	G3/8	23	9	9	5	11	19
270.081	G1/2	26	10	10	6	14	24

Double nipples, reducing, Series SZ-GA-RMM



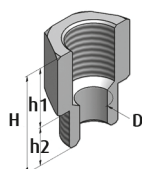
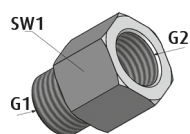
Technical Data

Dimensions

Item no.	Material	G1 (male)	G2 (male)	H [mm]	h1 [mm]	h2 [mm]	h3 [mm]	Ø d1 [mm]	SW1
270.280	Nickle-plated brass	G1/8	M5	15,5	4,8	6,5	4,2	2,4	14
270.279	Aluminum	G1/8	M6	21	7	9	5	3	14
270.131	Brass	G1/8	M8	18	6	7	5	4	14
270.107	Aluminum	G1/8	M12	21	7,5	8,5	5	5,5	17
270.227	Brass	G1/4	M5	19	5	9	5	2,5	17
270.181	Nickle-plated brass	G1/4	G1/8	22	8	9	5	4	17
270.320	Aluminum	G1/4	M10x1,25	25	10	10	5	5,5	17
270.108	Aluminum	G1/4	M12	21	8	8	5	5,5	17
270.297	Nickle-plated brass	G1/2	G1/4	25	9	10,5	5,5	8	24
270.323	Nickle-plated brass	G1/2	G3/8	25,5	9	10,5	6	11	24



Reducing Bushing male/female, Series SZ-GA-MF



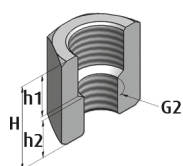
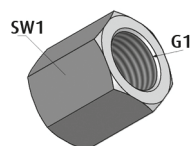
Technical Data

Item no.	Material
270.423	Nickle-plated brass
270.302	Nickle-plated brass
270.303	Nickle-plated brass
270.304	Aluminum
270.090	Brass
270.088	Aluminum
270.079	Brass
270.334	Nickle-plated brass
270.245	Brass
270.078	Brass
270.329	Nickle-plated brass
270.229	Brass
270.230	Brass
270.102	Brass

Dimensions

G1 (male)	G2 (female)	H [mm]	h1 [mm]	h2 [mm]	Ø D [mm]	SW1
M5	M5	11	7	4	2	8
G1/8	M5	10	4	6	--	14
G1/8	M6	13	5	8	--	13
G1/4	M6	15	5	10	--	17
G1/4	M10x1,25	11,5	5,8	5,7	--	19
G1/4	M10	28	16	12	4	17
M5	G1/8	17	12	5	2,4	14
G1/8	G1/4	20	13,6	6,5	5,4	17
G1/4	G1/8	13	4,5	8,5	--	17
G1/4	G1/4	28	19	9	7,5	17
G3/8	G1/4	14	5	9	--	19
G1/2	G1/4	18	6	12	--	24
G1/2	G3/8	18	6	12	--	24
G3/4	G3/8	18	6	12	--	32

Reducing Bushing female/female, Series SZ-GA-RFF



Technical Data

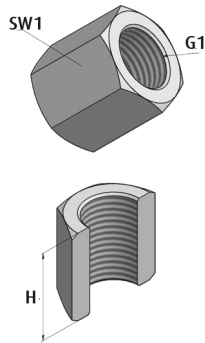
Item no.	Material
270.306	Aluminum
270.307	Aluminum
270.308	Aluminum
270.309	Aluminum
270.089	Aluminum
270.228	Nickle-plated brass

Dimensions

G1 (female)	G2 (female)	H [mm]	h1 [mm]	h2 [mm]	SW1
G1/8	M5	14	9,5	4,5	13
G1/8	M6	14	9,5	4,5	13
G1/4	M6	17,5	11	6,5	17
G1/4	M8	17,5	11	6,5	17
G1/4	M10	18	9	9	17
G3/8	G1/4	21,5	11,5	10	22



Parallel Bushing female/female, Series SZ-GA-FF



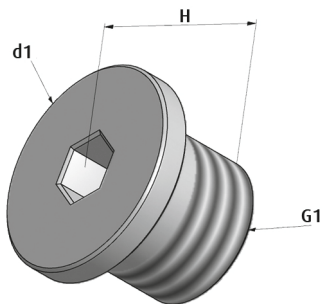
Technical Data

Item no.	Material
270.343	Nickle-plated brass
270.182.0	Aluminum
270.130.0	Aluminum

Dimensions

G1 (female)	H [mm]	SW1
G1/8	17	14
G1/4	20	19
G1/2	32	30

Threaded plug with O-ring seal, Series SZ-SCV



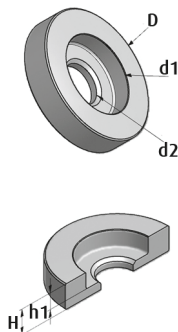
Technical Data

Item no.	Material
77.000	Nickle-plated brass
77.009	Nickle-plated brass
77.008	Nickle-plated brass
77.007	Nickle-plated brass
77.010	Nickle-plated brass

Dimensions

G1 (male)	H [mm]	Ø d1 [mm]
M5	6	8
G1/8	10	14
G1/4	11	17
G1/2	14,5	26
G3/8	12,5	20

Adapter plate, series SZ-ASC



Technical Data

Item no.	Material
78.080	Aluminum
78.081	Aluminum
78.082	Aluminum

Dimensions

H [mm]	h1 [mm]	Ø D [mm]	Ø d1 [mm]	Ø d2 [mm]
5	2,8	15	11	6,2
4,3	2,8	20	12	6,2
7	4	28	23	10,2



Flow control valves with flow pin



Product Description

- > Seals unused suction openings to maintain the system vacuum
- > Suitable for very fast cycle times
- > Wear- and noise-free
- > Very short design
- > Extremely low leakage
- > Optimal installation position is vertical

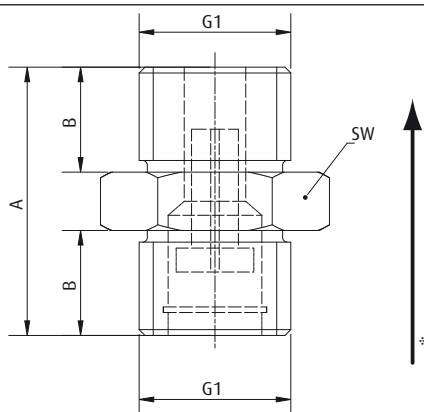
Technical Data

Item no.	Suction power required to achieve 30% vacuum in the system [Nl/min]	Suction power required to achieve 60% vacuum in the system [Nl/min]	Max. flow rate with blow-off at 5 bar [Nl/min]	Flow pin bore hole diameter [mm]	Leakage loss [m³/h]
63.036	5	5	370	0,8	0,46
63.037	11	11	620	1,2	1,04
63.038	17	18	480	1,5	1,62
63.055	3	3	320	0,6	0,21

Dimensions

A [mm]	B [mm]	G1	SW [mm]
23	9	G1/4	17
23	9	G1/4	17
23	9	G1/4	17
16	5	G1/8	12

Dimensions



* = Flow direction



Flow control valves with flow pin and filter, low leakage loss

Inch thread



Product Description

- > Seals unused suction openings to maintain the system vacuum
- > Ball seat valve with filter (not suitable for high levels of dust or dirt)
- > Suitable for fast cycle times
- > Low leakage, wear and noise-free
- > Preset at the factory. 63.003 can be adjusted if necessary
- > Vertical mounting, exception of 63001-63003: Any mounting position

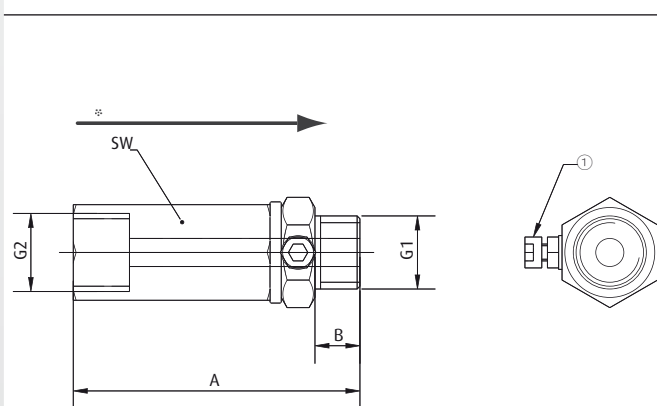
Technical Data

Item no.	Suction power required to achieve 30% vacuum in the system [N/mm]	Suction power required to achieve 60% vacuum in the system [N/mm]	Max. flow rate with blow-off at 5 bar [N/mm]	Weight [g]
63.001	4	7	260	15
63.002	4	8	360	24
63.003	0 - 22,6	0 - 28,6	550	25
63.008	3	3	340	17
63.011	7	8	590	31
63.012	8	9	790	49
63.060	7	8	590	10

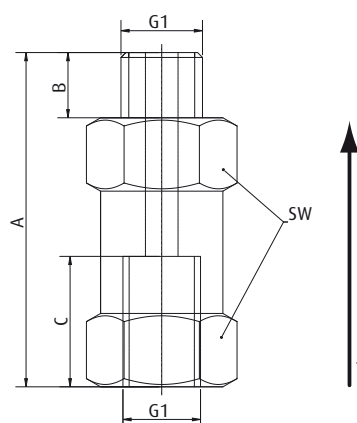
Dimensions

A [mm]	B [mm]	G1	G2	SW [mm]	C [mm]
48,5	6	G1/8	G1/8	14	-
50	10	G1/4	G1/4	17	--
50	8	G1/4	G1/4	17	--
36	10	G1/4	--	17	11
39	10	G3/8	--	22	12
41	12	G1/2	--	27	14
39	10	G1/8	--	22	12

Dimensions



63.003 | 63.002 | 63.001



63.060 | 63.012 | 63.011 | 63.008

① = Adjusting screw

* = Flow direction



Flow control valves with flow pin and filter, low leakage loss

Metric thread



Product Description

- > Seals unused suction openings to maintain the system vacuum
- > Ball seat valve with filter (not suitable for high levels of dust or dirt)
- > Low leakage loss

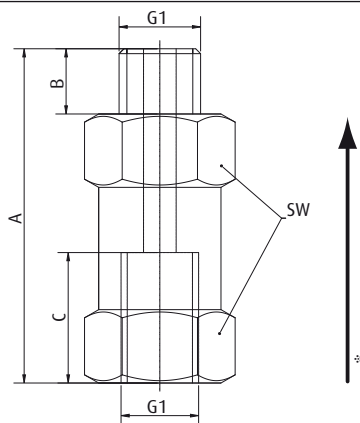
Technical Data

Item no.	Suction power required to achieve 30% vacuum in the system [N/min]	Suction power required to achieve 60% vacuum in the system [N/min]	Max. flow rate with blow-off at 5 bar [N/min]	Weight [g]	Leakage loss [m ³ /h]
63.056	0,8	0,8	60	5	0,105
63.057	0,9	0,9	70	8	0,105
63.058	1	1	80	6	0,105
63.059	1,5	1,5	100	12	0,105

Dimensions

A [mm]	B [mm]	C [mm]	G1	SW [mm]
18,4	2,5	4,5	M3	8
19,9	3	4,5	M4	10
19,9	3	4,5	M5	10
28,1	4	4,9	M6	12

Dimensions



* = Flow direction



Flow control valves with flow pin, self-cleaning

For harsh environmental conditions



Product Description

- > Seals unused suction openings to maintain the system vacuum
- > Self-cleaning by blow-off
- > 63 015 can be plugged directly into a vacuum cup to conserve space
- > Suitable for harsh environmental conditions (Heavy-duty)
- > Optimal installation position is vertical

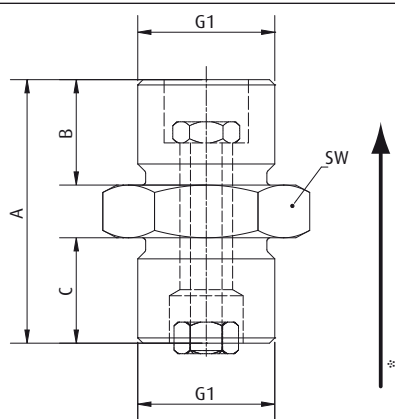
Technical Data

Item no.	Suction power required to achieve 30% vacuum in the system [N/min]	Suction power required to achieve 60% vacuum in the system [N/min]	Max. flow rate with blow-off at 5 bar [N/min]	Weight [g]
63.013	38	55	450	10
63.015	38	55	450	8

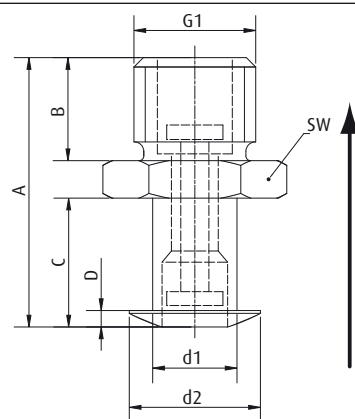
Dimensions

A [mm]	B [mm]	C [mm]	D [mm]	d1 [mm]	d2 [mm]	G1	SW [mm]
25	10	10	∅	∅	∅	G1/4	17
29	11	14	2	9	14	G1/4	17

Dimensions



63.013



63.015

* = Flow direction

Touch valves



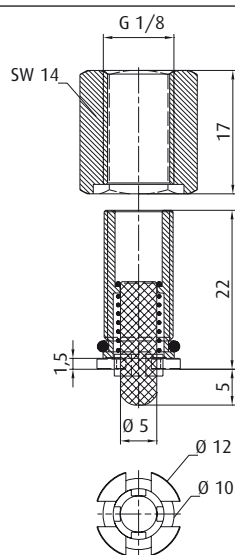
Product Description

- > Maintains the vacuum level in vacuum systems
- > Mechanical scanning leaves unused suction openings closed
- > Spring-loaded spring plunger allows for any mounting position
- > Low susceptibility to dirt and very safe operation

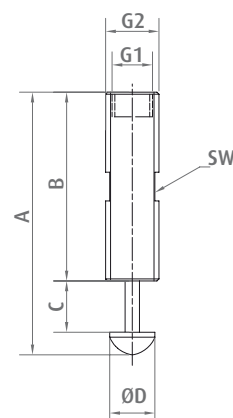
Technical Data

Item no.	Weight [g]	Dimensions													
		A [mm]	ØB [mm]	C [mm]	D [mm]	ØE [mm]	F [mm]	G1	SW [mm]	ØC [mm]	ØD [mm]	E [mm]	H [mm]	G2	B [mm]
270.129	7	27	12	1,5	22	5	17	G1/8	14	--	--	--	--	--	--
270.130	62	43	25	1,5	35	8	32	G1/2	30	--	--	--	--	--	--
63.026	29	65	--	13	--	--	--	G1/8	11	--	11	--	--	G1/4	45
63.027	21	56	--	5	--	--	--	G1/8	11	--	11	--	--	G1/4	46
63.028	4	27,5	10	6	--	--	13	G1/8	14	6,5	2	7	8	--	--
63.029	5	28,5	14	6,5	--	--	13	G1/8	14	8	2	7	8	--	--
63.032	8	45	7,2	10	6,5	--	--	G1/4	17	--	--	10	--	G1/4	--

Dimensions



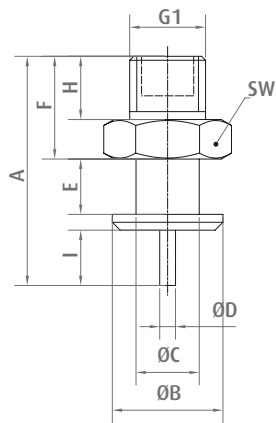
270.129 | 270.130



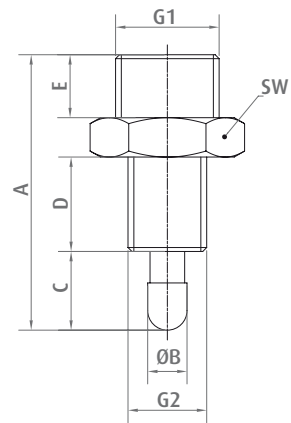
63.026 | 63.027



Dimensions



63.028 | 63.029

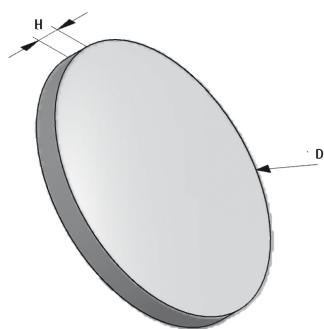


63.032



Filter discs, Series SZ-FI

For insertion into vacuum cup fold



Technical Data

Item no.	Material	Usage temperature [°C]
78.200	HDPE white	-40 - +80
78.201	HDPE white	-40 - +80
78.202	HDPE white	-40 - +80
78.203	HDPE white	-40 - +80
78.204	HDPE white	-40 - +80
78.205	HDPE white	-40 - +80
78.206	HDPE white	-40 - +80

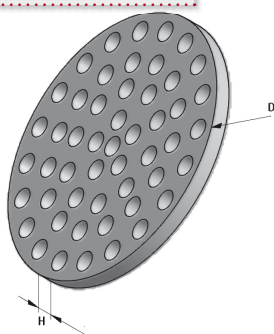
Dimensions

H [mm]	Ø D [mm]
1,5	17,5
1,5	28
1,5	38,5
1,5	48
1,5	70,5
1,5	113
1,5	147

Filter and supporting grid, Series SZ-FA

Suitable for foodstuff-handling vacuum cups of Series SL-K

SUITABLE FOR
FOODSTUFFS



Technical Data

Item no.	Material
78.504	Stainless steel
78.505	Stainless steel
78.506	Stainless steel
78.503	Stainless steel
78.507	Stainless steel
78.508	Stainless steel

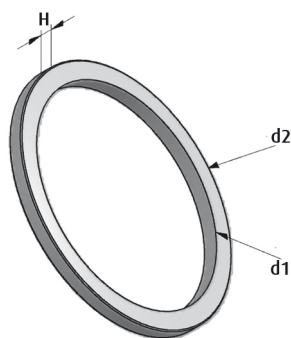
Dimensions

H [mm]	Ø D [mm]
1,5	25,5
1,5	38
1,5	48
1,5	58
1,5	73
1,5	84



Reinforcement rings SZ-STAB

For stabilising bellows vacuum cups



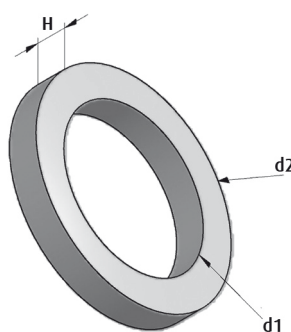
Technical Data

Item no.	Material
78.000	PA6
78.001	PA6
78.002	PA6
78.003	PA6

Dimensions

H [mm]	Ø d1 [mm]	Ø d2 [mm]
1	13,5	17,5
1,1	22	26,5
1,2	30	35,5
1,5	36	45,5

Retaining rings SZ-HR



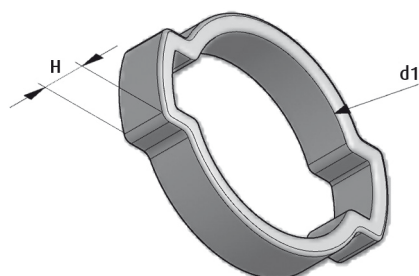
Technical Data

Item no.	Material
78.011	TPU
78.012	TPU
78.013	TPU

Dimensions

H [mm]	Ø d1 [mm]	Ø d2 [mm]
1,9	9,7	14
2,5	13	20
3,2	19	26

Gripper clamps SZ-KS



Technical Data

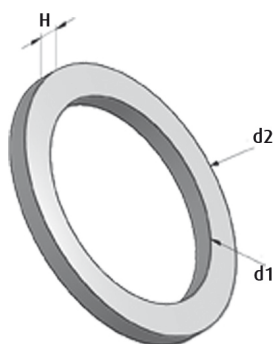
Item no.	Ø Area [mm]	Material
78.030	7-9	Steel galvanized
78.031	9-11	Steel galvanized
78.032	11-13	Steel galvanized
78.033	15-18	Steel galvanized
78.034	17-20	Steel galvanized

Dimensions

H [mm]	Ø d1 [mm]
4	9,3
3	11,3
4	13,2
4	18,2
4	20,2



Sealing rings SZ-DR



Technical Data

Item no.	For outside thread	Material
78.052	M5	Rigid PVC white
78.053	G1/8	Rigid PVC white
78.054	G1/4	Rigid PVC white
78.051	G3/8	Rigid PVC white
78.055	G1/2	Rigid PVC white
78.056	G3/4	Rigid PVC white

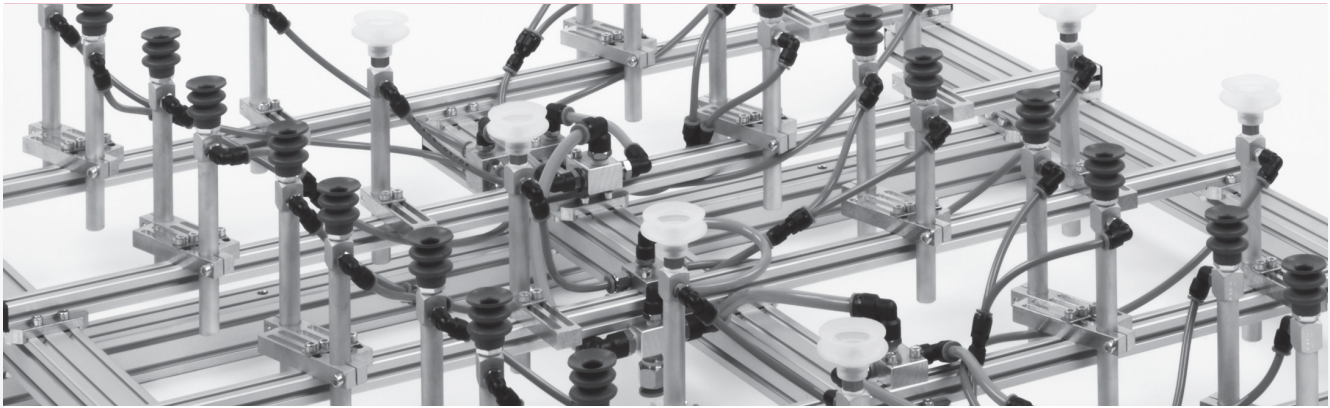
Dimensions

H [mm]	Ø d1 [mm]	Ø d2 [mm]
1	5,4	7,9
2	10,3	13,5
2	13,3	17,9
2	17,2	21,2
2	21,2	27,9
2	26,7	32,5

Ordering notes

1 packing unit = 100 pieces

Integration of vacuum cups into gripper systems



Suction fingers

Suction fingers serve for optimal integration of vacuum cups into a gripper system.



Suction fingers, rigid



Spring-loaded



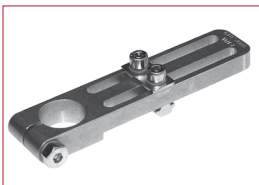
Rotatable



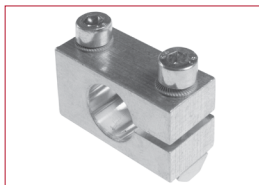
Spring-loaded, rotatable,
anti-twist protection

Clamps | Angle connectors

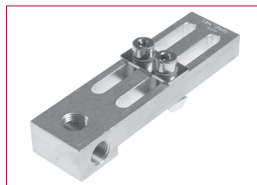
Angle clamps and connectors offer a wide adjustment range for the positioning of the gripper parts. Cross clamps save space in the assembly of compact gripper systems.



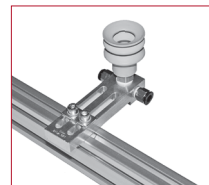
Angle clamp



Cross clamp



Angle connector, adjustable

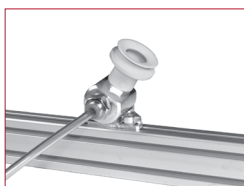


Vacuum cup fitting

Adjustable vacuum cup fittings serve for variable integration of vacuum cups into a gripper system.



Vacuum cup fitting, adjustable



More gripper components
are available in our
End-of-Arm-Tooling catalog.
Request your catalog on page 516.