

Vacuum Components



AIRBEST



Contents

Vacuum Pumps

01-87



Vacuum Filters

88-93



Vacuum Pads

94-214



Vacuum Accessories 215-228







Vacuum Technology

Introduction

Vacumm Degree

Vacuum uses ambient pressure as the refernce point and lies below the atmospheric pressure(0 mbar). Its values have a negative sign.

Pressure Unit

Positive pressure conversion table

	Pa(N/m²)	bar	kg/cm ²	Torr	psi(ibf/in²)	kPa	inHg
1Pa	1	0.00001	10.1792×10 ⁻⁶	7.50062×10 ⁻³	0.145038x10 ⁻³	0.001	0.3x10 ⁻³
1 kPa	1000	0.01	10.1792×10 ⁻³	7.50062	0.145038	1	0.3
1 bar	100000	1	1.01972	750.062	14.5038	100	30
1 kg/cm ²	98066.5	0.980665	1	735.559	14.2233	98.0665	29.42
1 torr	133.322	1.33322x10 ⁻³	1.35951x10 ⁻³	1	19.3368×10 ⁻³	0.133322	0.04
1 Psi	6894.76	68.9476×10 ⁻³	70.3096x10 ⁻³	51.7149	1	6.89476	2.07

Negative pressure conversion table

	mbar	kPa	-kPa	%vacuum	Torr	-mmHg	-inHg
Atmosphere	1013	101.3	0	0	760	0	0
	913	91.3	10	9.9	685	75	3
	813	81.3	20	19.7	610	150	6
	713	71.3	30	29.6	535	225	9
	613	61.3	40	39.5	460	300	12
	513	51.3	50	49.3	385	375	15
	413	41.3	60	59.2	310	450	18
	313	31.3	70	69.1	235	525	21
	213	21.3	80	79	160	600	24
	113	11.3	90	89	85	675	27
bsolute Vacuum	0	0	101.3	100	0	760	30

Flow

Volume flows per unit time Flow conversion table

	m³/s	m³/h	I/min	I/s	Ft ³ /min(scfm)
1 m ³ /s	1	3600	60000	1000	2118.9
1 m ³ /h	0.28×10 ⁻³	1	16.6667	0.2778	0.5885
1 l/min	16.67x10 ⁻⁶	0.06	1	0.0167	0.035
1 l/s	1×10 ⁻³	3.6	60	1	2.1189
1 ft ³ /min	0.472×10 ⁻³	1.6992	28.32	0.4720	1

How to produce vacuum

Compressed air flows in high speed, which sucks the air in vacuum chamber, then vacuum chamber has negative pressure.



Instructions for vacuum pads' applications

We separated applications in vacuum applied to sealed and unsealed systems.

Sealed systems are all applications where there is no leakage between the vacuum pad and the substrate.

Examples:-Handling of glass plates

- -Handling of smooth surface metal plates
- -Evacuation of containers
- -Tests of tightness

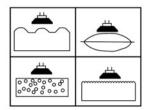
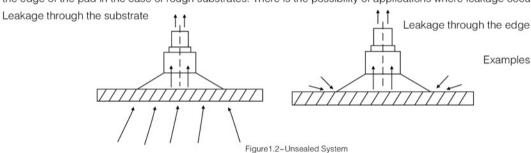


Figure 1.1-Types of surface

Unsealed systems applications are that where there is leaking through the pad and the substrate, where the product is porous, or through the edge of the pad in the case of rough substrates. There is the possibility of applications where leakage occurs by both ways.



Examples:-Arm cardboard box

- -Handling of foam
- Handling of rough ceramic floor by back side
- -Rotary joint
- -Transfer roll

Types of vacuum pads

Flat and flat with internal support



Figure 1.3 - Suction - flat

- Good for handling flat objects
- Little or no tolerance to the radius of curvature of the piece
- Small course of work
- Excellent for large vertical and horizontal loads

Bellows



Figure 1.4-Bellows Vacuum Pad

- Good for handling flat and curved objects
- Good tolerance for radius of curvature
- Good working course, which allows level adjustment between products of different heights
- Limited vertical and horizontal load capacity

Multiple Bellows



- G(

- Good for handling flat and curved objects
- Huge working course, allowing great compensation level between products with very different heights
- Vertical load-very limited, not suitable for horizontal loading. It does not allow working with high vacuum level, because the vacuum pad may collapse.

Figure 1.5-Multi Bellows Vacuum Pad

Examples:-Handing breads, fruits and vegetables

- -Manipulation of small plastic bags
- -Handling packet of biscuits



Profile Vacuum Pads

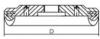


Figure 1.6-Profile

- Good for handling rough or smooth flat objects
- Little or no-tolerance for radium of curvature
- Reduced working course
- Excellent for large vertical loads
- Can be built in different ways to best suit the application

Examples:-Handling concrete blocks, stone and ceramics

-Handling sheet metal with rough surface

Due to the energy required to create vacuum beyond-80% raises up tremendously and as the premature wear of the suction caused by a vacuum level above-60%, we assume that most applications should work between -40 to -60% of vacuum(-20% for multiple Bellows.)

Safety factor(K)

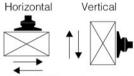


Figure 1.7-Types of movements

We can divide the vacuum pads applications in horizontal applications, where the object is lifted(subject) and then moved parallel to the plane or vertical applications, where the object is lifted and moved perpendicular to the plane and then can be driven in any direction.

Due to some factors inherent in handling systems, such as friction, gravity and acceleration, it is required to implement the safety factor to prevent slipping or detachments during the movement.

Below is a table with suggested values:

Table 1.1 - Safety factor

K(Safety Factor)	Kind of manipulation
2	Horizontal movement
4	Vertical movement
4	Horizontal movement with Robots
6	Vertical movement with Robots

Diameter of the vacuum pads

After selecting the type of the vacuum pad according to the stability and geometry of the object to be manipulated, we can proceed to calculate its approximate diameter required to do the work, based in one of the following formulas. where:

D=diameter of vacuum pad(in mm)

K=safety factor(see table 1.1)

V=vacuum level(-kPa)

n=number of vacuum pads in the application

m=mass(in kg)to be manipulated.

Table 1.2 - Formulas for diameter for type of vacuum pad

	<u> </u>			
Bellows		$D=152. \sqrt{\frac{m.k}{V.n}}$	Multiple-Bellows	D=223, $4\sqrt{\frac{m.k}{V.n}}$ Up to D=558, $5\sqrt{\frac{m.k}{V.n}}$
Flat and flat with internal		D=139, 5. $\sqrt{\frac{m.k}{V.n}}$	Profile	D=122, 08. $\sqrt{\frac{m.k}{V.n}}$
support	D	7	Theoretical (Without deformation)	$D=117.\sqrt{\frac{m.k}{V.n}}$



Examples

Sealed systems

1)Determine the type and number of vacuum pads for handling a flat aluminum plate of dimensions 2000x2000 mm and mass of 260 kg. The manipulation will be done through a pulley in the horizontal direction at low speed.

Manipulation of flat sheet

Suction will be the appropriate flat(Flat)

Safety factor is 2, taken from Table 1.1

Let's select-60 kPa and 8 pads for sake of stability and distribution of forces

From Table 1.2 we have

D=139, 5.
$$\sqrt{\frac{\text{m.k}}{\text{V.n}}}$$
 D=139, 5. $\sqrt{\frac{260.2}{60.8}}$

D=139, 5.
$$\sqrt{\frac{260.2}{60.8}}$$

m=260kg

v=60-kPa

k=2

n=8

For this diameter we should use the flat vacuum pad AIRBEST PFG-150

Material and characteristic of vacuum pad

Material	Temperature ℃	Durability	Oil Resistance	weather & ozone
N-NBR	-20~+110	0	0	0
S-Silicone	-40~+200	Δ	×	0
C.S-Conductive(Special material)	-45~+90	0	0	0
PU-Poly Urethane	+10~+50	0	0	0
F-Fluoride Rubber	-10~+230	0	0	0
CR-Chloroprene Rubber	-40~+110	0	×	Δ
E-EPDM	0~+150	0	×	0
HS-High Temp.Silicone	-70~+280	Δ	×	0

O: Excellent

O: Very Good

 $[\]triangle$: Good

x: Unsuitable



Vacuum Pumps



Multistage Vacuum Pumps	ABM Series	02-06
	ABX Series	07–11
	ABM/ABX Series(Combined type)	12–16
	ASM Series(Compact type)	17–19
	ASX Series(Compact type)	20–22
	AM Series	23–29
	AL Series	30–35
	AH Series	36–38
	AM Series(Combined type)	39–46
	AL Series(Combined type)	47–52
	AH Series(Combined type)	53–55
	AZL112 Series	56–59
	AZL212 Series	60–61
Conveying Vacuum Pumps	ACP Series	62–62
,	ACPF Series	63–63
	ACPS Series	64–65
Basic Vacuum Pumps	ACV Series	66–72
	AQV Series	
	AZH Series	
	AZU Series	
	ASBP Series	

AIRBEST









Specifications

Max.vacuum level	-85kPa		
Max.vacuum flow rate	220I/m		
Air supply pressure	4-6bar Max.7bar		
Air supply pressure(opt)	4.5bar		
Air supply type	Dry compressed air		
Working temperature	-20°C to +80°C		
Noise level	50-68dBA		

Features

- ☆ These pumps are compact and low weight design. Because the pumps are too small they can be mounted locally to the vacuum requirement even directly onto the back of suction cups if required.
- ☆ They use a Multi Stage Ejector principal for generating the vacuum, provide large capacity vacuum flow combined with high grade plastic, making the pumps resilient to most hazardous vapours
- ☆ The pump can have seal materials options of Viton® & EPDM for corrosive and acidic applications.

How to Order

ABM5 - B - V

1 Model-Capacity equivalent to electricity motor pump size

ABM5	0.05kW
ABM10	0.10kW
ABM20	0.20kW
ABM30	0.30kW

2 Air Supply, Vacuum, Exhaust Port

	Air Supply	Vacuum	Exhaust
Α	M5-Φ6	G1/8"	Internal silencer
NA	M5-Φ6	NPSF1/8"	Internal silencer
В	G1/8"	G3/8"	Internal silencer
DA	C1/0"	C2/0"	Internal silencer
BA	G1/8"	G3/8"	connection plate-AL
NB	NPSF1/8"	NPSF3/8"	Internal silencer
NDA	NDCE4/O	NDCE2/OF	Internal silencer
NBA	NPSF1/8"	NPSF3/8"	connection plate-AL
С	G1/8"	G3/8"	External silencer
NC	NPSF1/8"	NPSF3/8"	External silencer

※ Standard pump model

ABM5-A, NA, B, BA, NB, NBA, C, NC ABM10-A, NA, B, BA, NB, NBA, C, NC ABM20-B, BA, NB, NBA,C, NC ABM30-B, BA, NB, NBA,C, NC

3 Sealing

No mark	Standard (NBR)
V	VITON
E	EPDM



Technical Parameters

Max.vacuum level	Max.vacuum flow	Air consumption	Noise level	Min tube inner Φ (within 2m)			
Model	(-kPa)	(l/min)	(I/min)	(dBA)	Air supply	Vacuum	Exhaust
ABM5		37	12-20	50-65	>2	>5	>8
ABM10	05	75	28-42	55-68	>2	>8	>10
ABM20	85	150	55-85	60-68	>4	>10	>12
ABM30		220	87-125	60-68	>6	>12	>15

Remarks: type weight= ABM5-A (B,BA,NBA,C,NC)

:32.5g (38g,58g,58g,38g,38g)

ABM10-A (B,BA,NBA,C,NC)

:32g (37.5g,57.5g,57.5g,37.5g,37.5g)

ABM20-B (BA,NB,NBA,C,NC)

:50g (70g,70g,70g,50g,50g)

ABM30-B (BA,NB,NBA,C,NC)

:62.5g (82.5g,82.5g,82.5g,62.5g,62.5g)

Vacuum flow(I/min)at different vacuum levels(-kPa)

Model -kPa	Air supply pressure	0	10	20	30	40	50	60	70	80	Max.vacuum level
ABM5	4.5bar	35	20.5	12	10.5	8.5	6.5	4.5	2.5	0.8	
ABM10		70	40.5	25	21	18	14	9.5	5	1.3	051-0-
ABM20		141	77	45	39.5	29.5	25	17.5	12	3	-85kPa
ABM30		175	105	70	63	53	40	26	14	6.5]

I/Do								(2)4(4)			
Model	Air supply pressure	0	10	20	30	40	50	60	70	80	Max.vacuum level
ABM5		37	25	15.5	12	8	6	4	2.7	0.6	
ABM10	6hor	75	55	27	20	18	12	9	5	2	-85kPa
ABM20	- 6bar	150	100	55	38	30	24	16	11	3.2	-65KFa
ABM30	BM30		150	81	65	50	38	27	18	5	

Evacuation time(s/l)to reach different vacuum levels(-kPa)

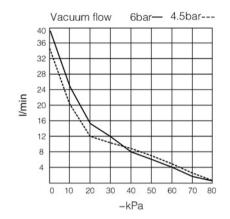
Model -kPa	Air supply pressure	10	20	30	40	50	60	70	80
ABM5	4.5bar	0.11	0.42	0.95	1.66	2.5	3.65	5.25	7.89
ABM10		0.08	0.2	0.44	0.8	1.24	1.8	2.55	3.8
ABM20		0.04	0.12	0.23	0.41	0.65	0.93	1.33	2.03
ABM30		0.03	0.09	0.16	0.27	0.43	0.66	0.95	1.43

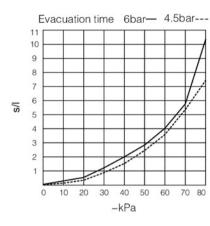
		Q19 S	32	9	Ç.		(A)		
Model -kPa	Air supply pressure	10	20	30	40	50	60	70	80
ABM5		0.13	0.51	1.15	1.93	2.87	4.09	5.84	10.46
ABM10	Char	0.029	0.23	0.53	0.92	1.37	1.95	2.77	4.62
ABM20	6bar -	0.023	0.15	0.28	0.46	0.71	1.02	1.48	2.55
ABM30		0.015	0.077	0.138	0.308	0.49	0.69	1.02	1.75

ASBP

AIRBEST

ABM5





4.5

3.5

3

2

1.5

0.5

2.7

2.4

2.1

1.8

1.2

0.9

0.6

0 10 20

l/s 1.5

0 10 20 30 40 50 60 70

l/s 2.5

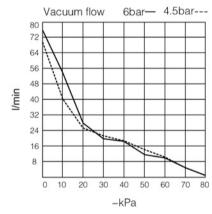
Evacuation time 6bar- 4.5bar---

-kPa

Evacuation time 6bar- 4.5bar---

40 50 60

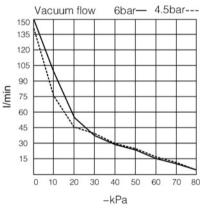
ABM10

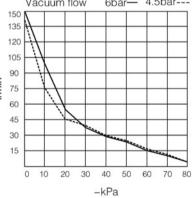


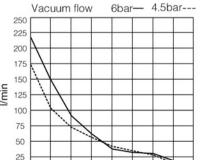


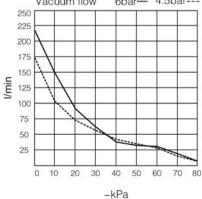


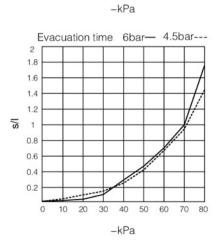
ABM30





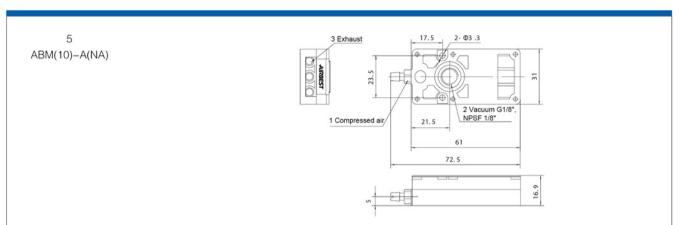






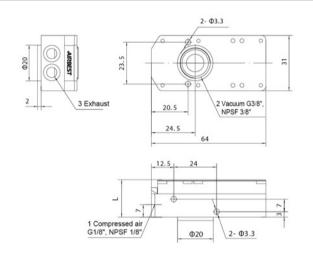


Dimensions (mm)





	r.
Model	L(mm)
ABM5	20.7
ABM10	20.7
ABM20	28
ABM30	35

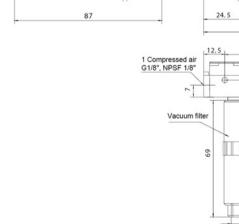


3 Exhaust G3/8"

Muffler

2 Vacuum G3/8", NPSF 3/8"



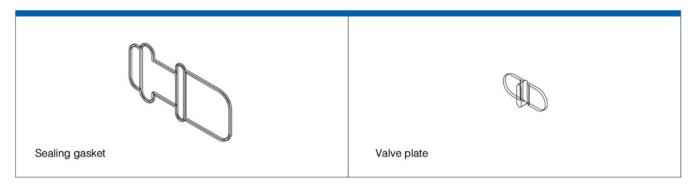




ASBP

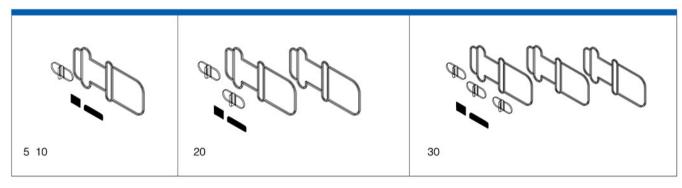


How to order(Sealing elements)



Specification	Sealing gasket	Valve plate
Standard(NBR)	02.0050.419	02.0050.421
VITON	02.0050.420	02.0050.422
EPDM	02.0050.465	02.0050.466

Repair kits



Madal		Ordering Code					
Model	NBR	VITON	EPDM				
ABM5-A(B、C)	01.0005.402	01.0005.602	01.0005.802				
ABM10-A(B、C)	01.0010.402	01.0010.602	01.0010.802				
ABM20-B(C)	01.0020.404	01.0020.604	01.0020.804				
ABM30-B(C)	01.0030.406	01.0030.606	01.0030.806				











Specifications

Max.vacuum level	-93kPa	
Max.vacuum flow rate	185l/m	
Air supply pressure		4-6bar Max.7bar
Air supply pressure(opt)	ABX5-ABX20	4.5bar
	ABX30	5bar
Air supply type		Dry compressed air
Working temperature	-20°C to +80°C	
Noise level		50-68dBA

Features

- ☆ These pumps are compact and low weight design. Because the pumps are too small they can be mounted locally to the vacuum requirement even directly onto the back of suction cups if required.
- ☆ They use a Multi Stage Ejector principal for generating the vacuum, provide large capacity vacuum flow combined with high grade plastic, making the pumps resilient to most hazardous vapours
- ☆ ABX has the same external dimensions to that of ABM however the internal ejector system is different to enable higher levels of vacuum to be achieved.
- ☆ The pump can have seal materials options of Viton[®] & EPDM for corrosive and acidic, applications.

How to Order

ABX5 – B – V

1) 2) 3

① Model-Capacity equivalent to electricity motor pump size

ABX5	0.05kW
ABX10	0.10kW
ABX20	0.20kW
ABX30	0.30kW

2 Air Supply, Vacuum, Exhaust Port

	Air Supply	Vacuum	Exhaust
А	M5-Φ6	G1/8"	Internal silencer
NA	M5-Φ6	NPSF1/8"	Internal silencer
В	G1/8"	G3/8"	Internal silencer
DA	G1/8"	G3/8"	Internal silencer
BA	G 1/8	G3/8	connection plate-AL
NB	NPSF1/8"	NPSF3/8"	Internal silencer
NDA	NDCE1/O	NDCE2/0"	Internal silencer
NBA	NPSF1/8"	NPSF3/8"	connection plate-AL
С	G1/8"	G3/8"	External silencer
NC	NPSF1/8"	NPSF3/8"	External silencer

[※] Standard pump model

ABX5-A, NA, B, BA, NB, NBA, C, NC ABX10-A, NA, B, BA, NB, NBA, C, NC ABX20-B, BA, NB, NBA, C, NC ABX30-B, BA, NB, NBA, C, NC:

3 Sealing

No mark	Standard (NBR)
V	VITON
E	EPDM

ASM

ASX

AM AL

AΗ

AM Combined type AL Combined type

AH Combined type

AZL112

AZL212

ACP ACPF

ACPS

ACV

AQV

AZH

AZU ASBP

ABX Series

Technical Parameters

AIRBEST

Max.vacuum level	Max.vacuum flow	Air consumption	Noise level	Min tube inner Φ (within 2m)			
wodei	(-kPa)	(I/min)	(I/min)	. , , , , ,	Air supply	Vacuum	Exhaust
ABX5		32	18-22	50-65	>2	>5	>8
ABX10	92	63	31-40	55-68	>2	>8	>10
ABX20	92	125	79-89	60-68	>4	>10	>12
ABX30		185	128-137	60-68	>6	>12	>15

Remarks: type weight= ABX5-A (B,BA,NBA,C,NC)

:32.5g (38g,58g,58g,38g,38g)

ABX10-A (B,BA,NBA,C,NC) :32g (37.5g,57.5g,57.5g,37.5g)

ABX20-B (BA,NB,NBA,C,NC) :50g (70g,70g,70g,50g,50g)

ABX30-B (BA,NB,NBA,C,NC) :62.5g (82.5g,82.5g,82.5g,62.5g,62.5g)

Vacuum flow(I/min)at different vacuum levels(-kPa)

Model -kPa	Air supply pressure	0	10	20	30	40	50	60	70	80	90	Max.vacuum level
ABX5		30	13	7.5	7	6	5	4	3.2	1.8	0.4	
ABX10	4.5bar	52	24	18	15	13	10.5	8	6	2.5	0.8	001-0-
ABX20		100	46	34	30.5	25	21	17	10.5	5	1.6	92kPa
ABX30	5bar	180	95	55	45.5	40.5	30.5	25	19	11.5	3	

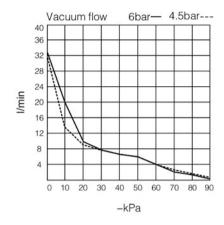
100	-		N.	No.	()	200	10	(c	100	V.	7	177
Model -kPa	Air supply pressure	0	10	20	30	40	50	60	70	80	90	Max.vacuum level
ABX5		32	20	8.5	7.5	6	5	4	3	1.5	0.15	
ABX10	6bar	63	36	18	16	12.5	10.5	8.5	6	3.5	0.5	-93kPa
ABX20	6Dar	125	73	35	30	25	22	18	12	7	0.9	-93KPA
ABX30		185	103	51	46	38	31	25	19	12	1.8	

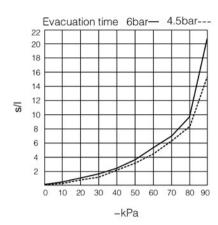
Evacuation time(s/l)to reach different vacuum levels(-kPa)

		100	2	000	2.7		19	p	And the state of t	
Model -kPa	Air supply pressure	10	20	30	40	50	60	70	80	90
ABX5		0.13	0.6	1.26	2.3	3.2	4.5	6.15	8.5	15.5
ABX10	4 Ebor	0.11	0.3	0.65	1.1	1.55	2.15	2.85	4.7	10.2
ABX20	4.5bar	0.09	0.16	0.32	0.55	0.8	1.5	1.8	2.7	5
ABX30		0.06	0.12	0.23	0.36	0.53	0.76	1.1	1.6	2.9

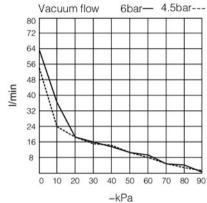
Model -kPa	Air supply pressure	10	20	30	40	50	60	70	80	90
ABX5		0.15	0.71	1.52	2.54	3.72	5.12	6.95	9.7	21
ABX10	Char	0.09	0.32	0.71	1.18	1.74	2.4	3.26	4.55	10.2
ABX20	6bar	0.046	0.15	0.31	0.52	0.77	1.08	1.54	2.15	4.92
ABX30		0.025	0.123	0.23	0.38	0.58	0.82	1.11	1.54	3

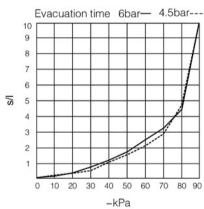
· ABX5



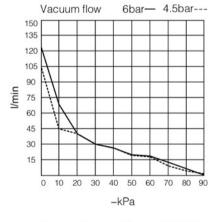


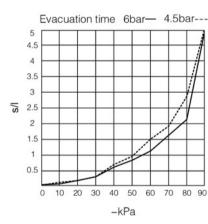
ABX10



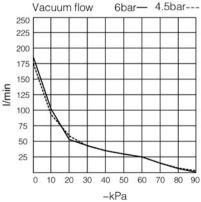


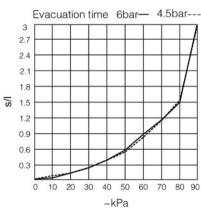
· ABX20





ABX30





ACP

ACPF

ACPS

ACV

AQV

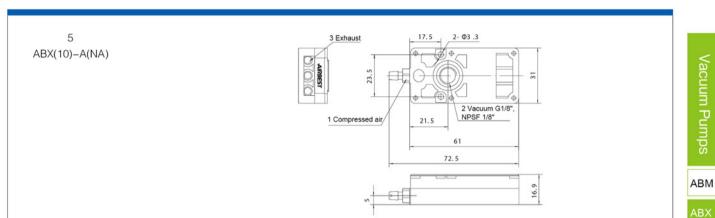
AZH

AZU

ASBP

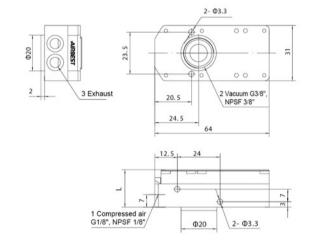


Dimensions (mm)

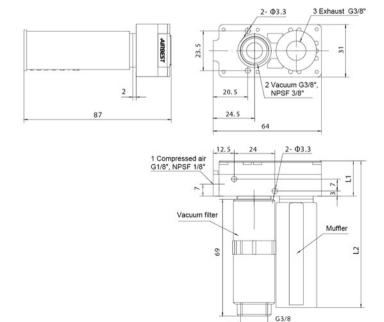




Model	L(mm)
ABX5	20.7
ABX10	20.7
ABX20	28
ABX30	35



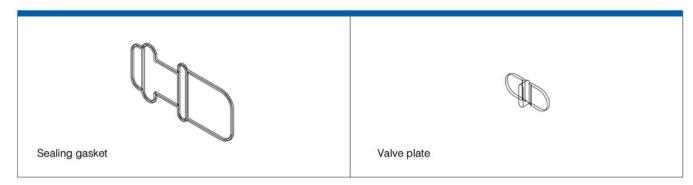




Model	L1(mm)	L2(mm)
ABX5	20.7	87
ABX10	20.7	87
ABX20	28	94.2
ABX30	35	101.5

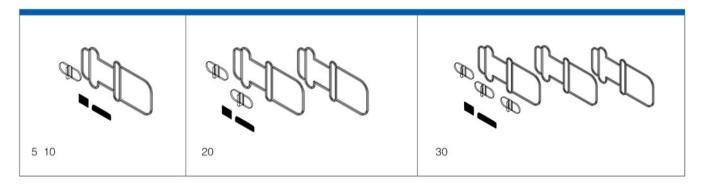


How to order(Sealing elements)



Specification	Sealing gasket	Valve plate
Standard(NBR)	02.0050.419	02.0050.421
VITON	02.0050.420	02.0050.422
EPDM	02.0050.465	02.0050.466

Repair kits



Model	Ordering Code						
Model	NBR	VITON	EPDM				
ABX5-A(B、C)	01.0005.402	01.0005.602	01.0005.802				
ABX10-A(B、C)	01.0010.402	01.0010.602	01.0010.802				
ABX20-B(C)	01.0020.404	01.0020.604	01.0020.804				
ABX30-B(C)	01.0030.406	01.0030.606	01.0030.806				

ABM

AIRBEST



Specifications

Max.Vacuum Level	-86kPa
Max.Vacuum flow rate	35I/m
Air supply pressure	4-6bar Max.7bar
Air supply type	Dry compressed air

How to Order

ABM5 x 5 - 4 - V

① Model	
ABM5	
ABM10	

③ Vacuum port,inner dia. of tube 4- Φ4

2 Vacuum stack

4 Sealing

2、	3、	4、	5、	6、	7、	8、	9、	10
11	、1	2、	13、	14	、1	5、	16	

No mark-Standard(NBR)
V-VITON
E-EPDM

Features

- ☆ This vacuum pump uses individual pumps to make up the complete unit,each pump is in itself a multistage ejector unit. Each individual pump can be stacked together this creating a modular manifold based system.
- ☆ It can be operated using just one control valve whilst retaining individual vacuum lines separate to one another,therefore if any leakage or surface deformation occurs and one pad loses its vacuum, it does not effect the vacuum level in the other pads. Pumps can be stacked up from 2-16 unit depending upon requirements. The pumps can have seal material options of Viton® & EPDM for corrosive and acidic applications.

Remark: ABM5-the most 16 stacks (can use 2 silencers between 12-16 stacks)

ABM10-the most 12 stacks (can use 2 silencers between 6–12 stacks)

Vacuum flow(I/min)at different vacuum levels(-kPa)

Model		Vacuum flow(I/min)at different vacuum levels(-kPa)										
Wodel	0	10	20	30	40	50	60	70	80			
ABM5x1	27	15	12.5	11	10	7.5	5.5	2	0.6			
ABM10x1	35	28	24	22	18	15	11	5	1.3			

Evacuation time(s/l)to reach different vacuum levels(-kPa)

Model		Evacuation time(s/l)to reach different vacuum levels(-kPa)									
Wodei	10	20	30	40	50	60	70	80			
ABM5x1	0.2	0.59	1.10	1.58	2.4	3.52	5.3	10.25			
ABM10x1	0.12	0.28	0.60	0.81	1.18	1.82	2.65	5.21			



Model	Max.vacuum level	Max.vacuum flow	Air consumption	Min tul	oe innerΦ(with	nin 2m)
Model	(-kPa)	(I/min)	(I/min)	Air supply	Vacuum	Exhaus
ABM5×2		25×2	29-41	>2	>2.5	3/8 × 1
ABM5×3		25×3	44-64	>2	>2.5	3/8 × 1
ABM5 × 4		25×4	61-85	>4	>2.5	3/8 × 1
ABM5×5		25×5	71-104	>4	>2.5	3/8 × 1
ABM5×6		25×6	89-125	>4	>2.5	3/8 × 1
ABM5×7		25×7	104-145	>4	>2.5	3/8 × 1
ABM5×8		25×8	120-168	>6	>2.5	3/8 × 1
ABM5×9	86	25×9	132-190	>6	>2.5	3/8 × 1
ABM5 × 10		25 × 10	148-211	>6	>2.5	3/8 × 1
ABM5×11		25×11	165-232	>6	>2.5	3/8 × 1
ABM5 × 12		25 × 12	180-252	>6	>2.5	3/8×2
ABM5 × 13		25 × 13	195-275	>6	>2.5	3/8×2
ABM5×14		25×14	208-293	>4	>2.5	3/8×2
ABM5 × 15		25 × 15	225-316	>4	>2.5	3/8 × 2
ABM5×16		25 × 16	241-335	>4	>2.5	3/8×2
ABM10×2		32×2	61-85	>4	>4	3/8 × 1
ABM10×3		32×3	91-125	>4	>4	3/8 × 1
ABM10×4		32×4	121-167	>6	>4	3/8 × 1
ABM10×5		32×5	151-212	>6	>4	3/8 × 1
ABM10×6		32×6	185-255	>6	>4	3/8 × 2
ABM10×7	86	32×7	211-295	>8	>4	3/8×2
ABM10×8		32×8	241-335	>8	>4	3/8×2
ABM10×9		32×9	271–376	>10	>4	3/8×2
ABM10 × 10		32×10	301-421	>10	>4	3/8 × 2
ABM10×11		32×11	332-463	>10	>4	3/8 × 2
ABM10 × 12		32×12	361-505	>10	>4	3/8×2

ABM





Specifications

AIRBEST

Max.Vacuum Level	-92kPa
Max.Vacuum flow rate	32l/m
Air supply pressure	4-6bar Max.7bar
Air supply type	Dry compressed air

How to Order

 $ABX5 \times 5$

1 Model

ABX5 ABX10 3 Vacuum port,inner dia. of tube 4-Φ4

2 Vacuum stack

2、3、4、5、6、7、8、9、10 11、12、13、14、15、16

4 Sealing

No mark-Standard(NBR) V-VITON E-EPDM

Features

- ☆ This vacuum pump uses individual pumps to make up the complete unit, each pump is in itself a multistage ejector unit. It has the same external dimentions to that of the ABX minimultiple pump. However the internal ejector systemm is different to enable higher levels of vacuum to achieved. Each individual pump can be stacked together this creating a modular manifold based system.
- that It can be operated using just one control valve whilst retaining individual vacuum lines separate to one another, therefore if any leakage or surface deformation occurs and one pad loses its vacuum, it does not effect the vacuum level in the other pads. Pumps can be stacked up from 2-16 unit depending upon requirements. The pumps can have seal material options of Viton® & EPDM for corrosive and acidic applications.

Remark: ABX5-the most 16 stacks (can use 2 silencers between 12-16 stacks)

> ABX10-the most 12 stacks (can use 2 silencers between 6-12 stacks)

Vacuum flow(I/min)at different vacuum levels(-kPa)

Model		ABX series Vacuum flow(I/min)at different vacuum levels(-kPa)									
Wodel	0	10	20	30	40	50	60	70	80	90	
ABX5x1	25	14	10	9	7.5	6	4	2.8	1.5	0.44	
ABX10x1	32	21	18	16	14	11	9.5	5.5	2.5	1.1	

Evacuation time(s/l)to reach different vacuum levels(-kPa)

Model		ABX series Evacuation time(s/l)to reach different vacuum levels(-kPa)									
Model	10	20	30	40	50	60	70	80	90		
ABX5x1	0.21	0.81	1.52	2.35	3.48	4.85	6.57	10.5	19.27		
ABX10x1	0.14	0.40	0.78	1.22	1.77	2.4	3.3	4.95	9.62		



Madal	Max.vacuum level	Max.vacuum flow	Air consumption	Min tul	be innerΦ(with	nin 2m)
Model	(-kPa)	(l/min)	(I/min)	Air supply	Vacuum	Exhaus
ABX5×2		23×2	43-49	>2	>5	3/8 × 1
ABX5×3		23×3	65-73	>2	>8	3/8 × 1
ABX5×4		23×4	85-96	>4	>10	3/8 × 1
ABX5×5		23×5	106-121	>4	>12	3/8 × 1
ABX5×6		23×6	130-144	>4	>12	3/8 × 1
ABX5×7		23×7	151-167	>4	>12	3/8 × 1
ABX5×8		23×8	173-193	>6	>12	3/8 × 1
ABX5×9	92	23×9	195-217	>6	>10	3/8 × 1
ABX5×10		23×10	215-241	>6	>8	3/8 × 1
ABX5×11		23×11	238-265	>6	>8	3/8 × 1
ABX5 × 12		23×12	260-289	>6	>10	3/8×2
ABX5 × 13		23×13	281-313	>6	>12	3/8×2
ABX5×14		23×14	303-335	>4	>12	3/8 × 2
ABX5 × 15		23×15	325-361	>4	>12	3/8 × 2
ABX5 × 16		23×16	346-385	>4	>12	3/8×2
ABX10×2		32×2	87-96	>4	>4	3/8 × 1
ABX10×3		32×3	130-145	>4	>4	3/8 × 1
ABX10×4		32×4	173-193	>6	>4	3/8 × 1
ABX10×5		32×5	215-241	>6	>4	3/8 × 1
ABX10×6		32×6	260-288	>6	>4	3/8×2
ABX10×7	92	32×7	303-337	>6	>4	3/8×2
ABX10×8		32×8	346-385	>8	>4	3/8×2
ABX10×9		32×9	389-433	>10	>4	3/8 × 2
ABX10 × 10		32×10	433-481	>10	>4	3/8 × 2
ABX10×11		32×11	476-529	>10	>4	3/8 × 2
ABX10×12	7	32×12	519-578	>10	>4	3/8 × 2

AM AL

АН

AM Combined type

AL Combined type

AH Combined type

AZL112

AZL212

ACP

ACPF

ACPS

ACV

_

AQV

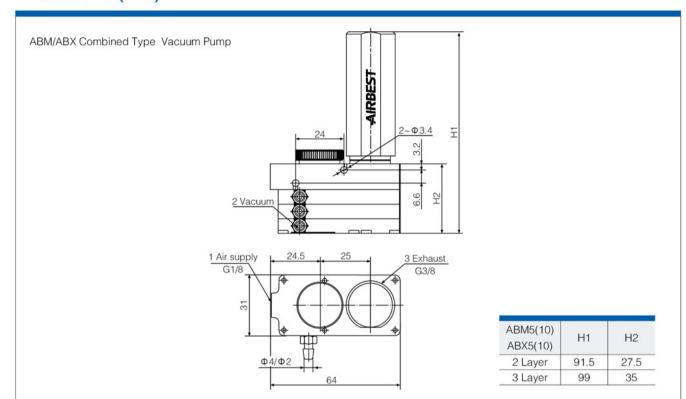
AZH

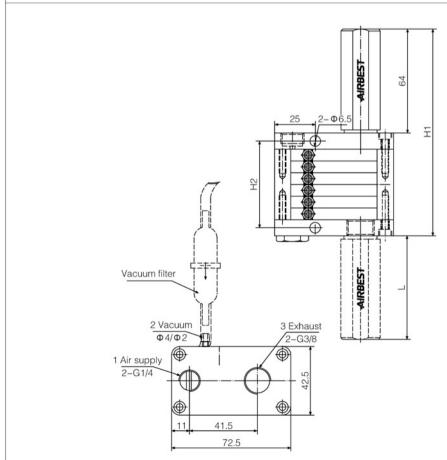
AZU

ASBP



Dimensions (mm)





ABM5(10) ABX5(10)	H1	H2
4 Layer	113	39
5 Layer	121	47
6 Layer	128	54
7 Layer	135	61
8 Layer	142	68
9 Layer	150	76
10 Layer	157	83
11 Layer	164	90
12 Layer	172	98
13 Layer	179	105
14 Layer	186	112
15 Layer	194	120
16 Layer	201	127



Features

- ☆ Integrate with control, filter and silence
- ☆Multistage nozzles take advantage of compressed air more efficiently
- ☆ Thin design, easy installation
- ☆Many options for combination of control valve and vacuum switch
- ☆ Digital vacuum monitoring unit is available, LED display, east adjustment





Model

Model	Specification	Combination mode	Vacuum stack quantity	Control valve	Vacuum switch (Optional)
			1		
		Nil-Single body	2		
	05	Z-Combined type with	3		N ₁ -2NPN output & Analog output
ASM Lorgo flow	10	concentrated air supply	4	NO-Normally open	N ₂ -2NPN output
ASM-Large flow	15	M-Combined type with	5	NC-Normally close	N ₃ -2PNP output & Analog output
	20	concentrated air supply	6		N ₄ -2PNP output
		and exhaust	7		
			8		

△ASM05-Z4-NC-N₁

Technical parameters

Model	Max. vacuum level -kPa	Max. vacuum flow I/min	Air supply pressure bar	Air consumption I/m	Noise dB	Weight g
ASM05		48		32~42	50~65	250
ASM10	85	85	4.6	40~75	50~65	250
ASM15	85	115	4~6	70~90	50~65	250
ASM20		132		96~122	50~65	250

Vacuum flow (I/min) at different vacuum levels (-kPa)

Vacuum Model	0 -kPa	10 –kPa	20 -kPa	30 -kPa	40 -kPa	50 –kPa	60 –kPa	70 –kPa	80 -kPa	Max. vacuum level -KPa
ASM05	41	20	12	10	8.5	7	4.5	2.6	0.5	
ASM10	75	48	25	19	15	12	7	2.5	0.8	85
ASM15	102	65	41	28	22	18	12	5	1.5	
ASM20	120	74	45	35	27	22	16	9	2.5	



Evacuation time (s/l) to reach different vacuum levels (-kPa)

Vacuum Model	10 -kPa	20 -kPa	30 -kPa	40 -kPa	50 –kPa	60 –kPa	70 -kPa	80 -kPa
ASM05	0.12	0.36	0.9	1.4	2.2	3.4	4.2	7
ASM10	0.1	0.31	0.56	0.9	1.5	2.3	3.2	4.7
ASM15	0.07	0.25	0.43	0.76	1.2	1.9	2.6	4
ASM20	0.05	0.14	0.32	0.68	0.98	1.6	2.1	2.8

How to order

Vacuum stack Model	1	2	3	4	5	6	7	8
ASM05-NC	131.0501.0000							
ASM05-Z-NC	7	131.0512.0000	131.0513.0000	131.0514.0000	131.0515.0000	131.0516.0000	131.0517.0000	131.0518.0000
ASM05-M-NC		131.0522.0000	131.0523.0000	131.0524.0000	131.0525.0000	131.0526.0000	131.0527.0000	131.0528.0000
ASM05-NO	131.0501.1000							
ASM05-Z-NO		131.0512.1000	131.0513.1000	131.0514.1000	131.0515.1000	131.0516.1000	131.0517.1000	131.0518.1000
ASM05-M-NO		131.0522.1000	131.0523.1000	131.0524.0000	131.0525.1000	131.0526.1000	131.0527.1000	131.0528.1000
ASM10-NC	131.1001.0000							
ASM10-Z-NC		131.1012.0000	131.1013.0000	131.1014.0000	131.1015.0000	131.1016.0000	131.1017.0000	131.1018.0000
ASM10-M-NC	7	131.1022.0000	131.1023.0000	131.1024.0000	131.1025.0000	131.1026.0000	131.1027.0000	131.1028.0000
ASM10-NO	131.1001.1000	2		1.55		c==		
ASM10-Z-NO		131.1012.1000	131.1013.1000	131.1014.1000	131.1015.1000	131.1016.1000	131.1017.1000	131.1018.1000
ASM10-M-NO		131.1022.1000	131.1023.1000	131.1024.1000	131.1025.1000	131.1026.1000	131.1027.1000	131.1028.1000
ASM15-NC	131.1501.0000							
ASM15-Z-NC		131.1512.0000	131.1513.0000	131.1514.0000				
ASM15-M-NC		131.1522.0000	131.1523.0000	131.1524.0000				
ASM15-NO	131.1501.1000				1			
ASM15-Z-NO		131.1512.1000	131.1513.1000	131.1514.1000				
ASM15-M-NO		131.1522.1000	131.1523.1000	131.1524.1000				
ASM20-NC	131.2001.0000							
ASM20-Z-NC		131.2012.0000	131.2013.0000	131.2014.0000				
ASM20-M-NC		131.2022.0000	131.2023.0000	131.2024.0000	122	1		
ASM20-NO	131.2001.1000	j	1					
ASM20-Z-NO	8	131.2012.1000	131.2013.1000	131.2014.1000	1	1		
ASM20-M-NO		131.2022.1000	131.2023.1000	131.2024.1000				

ABM

ABX

ABM/ABX

ASX

AM AL

AH

AM Combined type AL Combined type

AH Combined type

AZL212 ACP

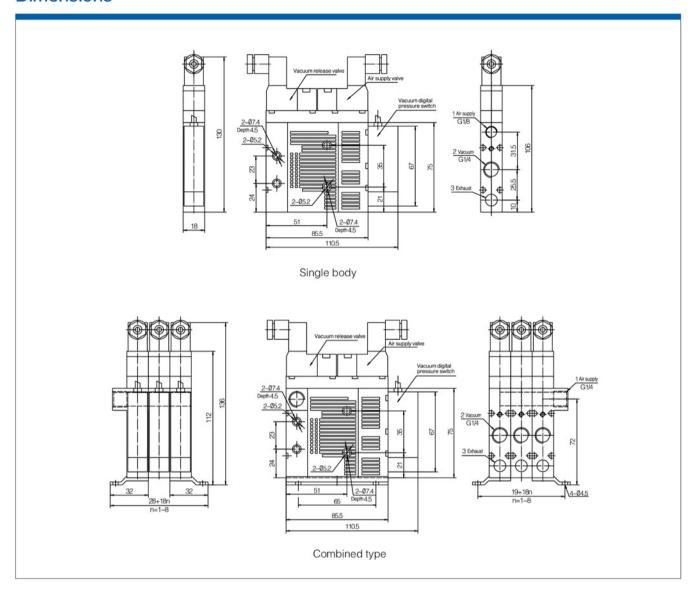
ACPS

ACV

AZH AZU



Dimensions



ABM

AZU

ASBP

AIRBEST

Features

- ☆ Integrate with control, filter and silence
- ☆ Multistage nozzles take advantage of compressed air more efficiently
- ☆Thin design, easy installation
- ☆ Many options for combination of control valve and vacuum switch
- ☆ Digital vacuum monitoring unit is available, LED display, east adjustment





Model

Model	Specification	Combination mode	Vacuum stack quantity	Control valve	Vacuum switch (Optional)
			1		
		Nil-Single body	2		
	05	Z-Combined type with	3		N ₁ -2NPN output & Analog output
ASX-High vacuum	10	concentrated air supply	4	NO-Normally open	N ₂ -2NPN output
ASA-High vacuum	15	M-Combined type with	5	NC-Normally close	N ₃ -2PNP output & Analog output
	20	concentrated air supply	6		N ₄ -2PNP output
		and exhaust	7		
			8		

△ASX05-Z4-NO-N₁

Technical parameters

Model	Max. vacuum level -kPa	Max. vacuum flow I/min	Air supply pressure bar	Air consumption I/m	Noise dB	Weight g
ASX05		46		24~30	50~65	250
ASX10	00	72	4.0	45~78	50~65	250
ASX15	92	103	4~6	70~92	50~65	250
ASX20	110			98~125	50~65	250

Vacuum flow (I/min) at different vacuum levels (-KPa)

Vacuum Model	0 -kPa	10 –kPa	20 -kPa	30 -kPa	40 –kPa	50 –kPa	60 -kPa	70 –kPa	80 -kPa	90 -kPa	Max. vacuum level -KPa
ASX05	38	19	11	7.5	6	5	3.8	2.7	1.6	0.3	
ASX10	58	25	18	15	12	10	7	5	2	0.5	92
ASX15	75	48	27	20	16	13	10	7	3.7	1	92
ASX20	95	54	32	28	22	18	15	9	4.6	1.8	



Evacuation time (s/l) to reach different vacuum levels (-kPa)

Vacuum Model	10 -kPa	20 -kPa	30 -kPa	40 -kPa	50 -kPa	60 -kPa	70 -kPa	80 -kPa	90 -kPa
ASX05	0.15	0.5	1.1	1.8	2.6	3.8	5.2	7	12
ASX10	0.12	0.38	0.75	1.4	1.8	2.5	3.2	4.8	9
ASX15	0.1	0.28	0.47	0.76	1.2	2	2.7	3.5	7.5
ASX20	0.09	0.18	0.36	0.6	0.9	1.3	2	2.6	5.2

How to order

Vacuum stack Model	1	2	3	4	5	6	7	8
ASX05-NC	132.0501.0000	į						
ASX05-Z-NC		132.0512.0000	132.0513.0000	132.0514.0000	132.0515.0000	132.0516.0000	132.0517.0000	132.0518.0000
ASX05-M-NC		132.0522.0000	132.0523.0000	132.0524.0000	132.0525.0000	132.0526.0000	132.0527.0000	132.0528.0000
ASX05-NO	132.0501.1000							
ASX05-Z-NO		132.0512.1000	132.0513.1000	132.0514.1000	132.0515.1000	132.0516.1000	132.0517.1000	132.0518.1000
ASX05-M-NO		132.0522.1000	132.0523.1000	132.0524.0000	132.0525.1000	132.0526.1000	132.0527.1000	132.0528.1000
ASX10-NC	132.1001.0000							
ASX10-Z-NC		132.1012.0000	132.1013.0000	132.1014.0000	132.1015.0000	132.1016.0000	132.1017.0000	132.1018.0000
ASX10-M-NC		132.1022.0000	132.1023.0000	132.1024.0000	132.1025.0000	132.1026.0000	132.1027.0000	132.1028.0000
ASX10-NO	132.1001.1000							
ASX10-Z-NO		132.1012.1000	132.1013.1000	132.1014.1000 132.1015.10		132.1016.1000	132.1017.1000	132.1018.1000
ASX10-M-NO		132.1022.1000	132.1023.1000	132.1024.1000	132.1025.1000	132.1026.1000	132.1027.1000	132.1028.1000
ASX15-NC	132.1501.0000							
ASX15-Z-NC		132.1512.0000	132.1513.0000	132.1514.0000	122			
ASX15-M-NC		132.1522.0000	132.1523.0000	132.1524.0000				
ASX15-NO	132.1501.1000		1		1			
ASX15-Z-NO		132.1512.1000	132.1513.1000	132.1514.1000				
ASX15-M-NO		132.1522.1000	132.1523.1000	132.1524.1000				
ASX20-NC	132.2001.0000							
ASX20-Z-NC		132.2012.0000	132.2013.0000	132.2014.0000				
ASX20-M-NC		132.2022.0000	132.2023.0000	132.2024.0000				
ASX20-NO	132.2001.1000	j						
ASX20-Z-NO		132.2012.1000	132.2013.1000	132.2014.1000	1			
ASX20-M-NO		132.2022.1000	132.2023.1000	132.2024.1000				

ASM

ASX

AM

AL

AH

AM Combined type

AL Combined type

ΔH

AH Combined type

AZL112

AZL212

ACP

ACPF

ACPS

ACV

AQV

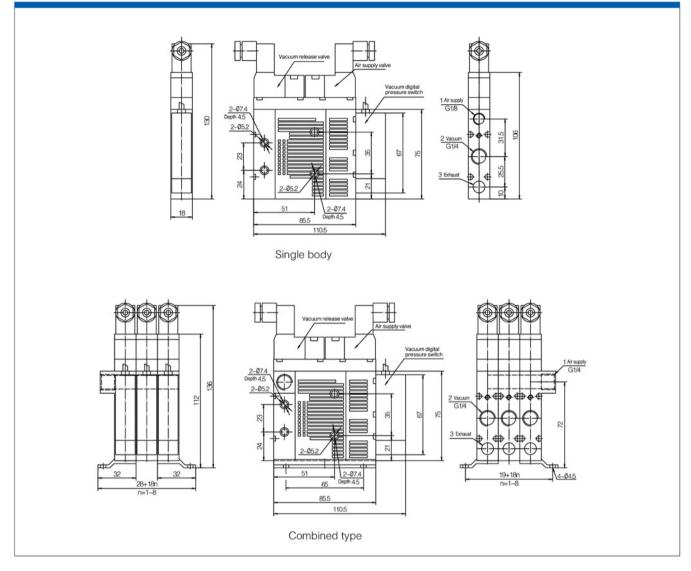
AZH

AZU

ASBP



Dimensions







Features

- ☆ Medium vacuum levels to –90 kPa
- ☆ Operates at 3.4bar
- ☆ Good for handling porous materials or if leakage is present
- ☆ Energy-Saving(ES)available
- ☆ Available with connection plate in aluminium(AD)and composite PPS(D)
- ☆ Supplies with a push-in connector for compressed air,through-flow silencer and mounting brackets

Specifications

Air supply pressure max	bar	7
Air supply pressure(opt)	bar	3.4
Noise level	dBA	60~65
Temperature range	℃	~20-80
Weight	g	750-120
Material		AL, PPS, SS, PA, NBR

Technical Parameters

Model	Max.vacuum level	Max.vacuum flow	Air consumption	Weight(PPS materials)	Min tub	e innerΦ(wit	hin 2m)
Model	(-kPa)	(I/min)	(I/min)	g	Air supply	Vacuum	EXhaust
AM25L		420	116-185	675	>4	>12	>12
AM50L		700	230-370	675	>6	>15	>15
AM75L	00	950	365-610	837	>8	>19	>22
AM100L	92	1010	445-720	837	>8	>19	>22
AM125L		1400	545-780	1075	>10	>25	>32
AM150L		1500	655-810	1075	>10	>25	>32

How to Order

AM25L - D - N - A - ES

1 Model
AM25L AM100L
AM50L AM125L
AM75L AM150L

 N
 NBR

 E
 EPDM

 V
 VITON

Non-Return Valve
 A Yes
 No

② Connection Plate AM25L-AM100L

	Air Supply	Vacuum	Exhaust	Material
D	NPSF1/8"	G3/4"	G3/4"	PPS
В	NPSF1/8"	NPT3/4"	NPT3/4"	PPS
AD	G1/4"	G3/4"	G3/4"	Aluminum
E	NPT1/4"	NPT3/4"	NPT3/4"	Aluminum

AM125L-AM150L

	Air Supply	Vacuum	Exhaust	Material
D	G1/4"	G1*	G1*	PPS
В	NPT1/4"	NPT1*	NPT1*	PPS
AD	G1/4"	G1*	G1*	Aluminum
Е	NPT1/4"	NPT1*	NPT1*	Aluminum

⑤ Control device

			The state of the s
PD	Electric air supply	PVD	Electric control(air supply+vacuum breaking)Combination
PQ	Pneumatic air supply	PVQ	Pneumatic control(air supply+vacuum breaking)Combination
VD	Electric control vacuum breaking	ES	Energy-saving
VQ	Pneumatic control vacuum breaking	_	NO

ABX

AIRBEST

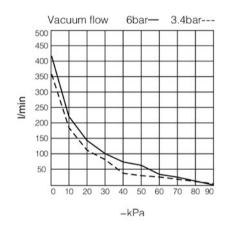
· AM25L

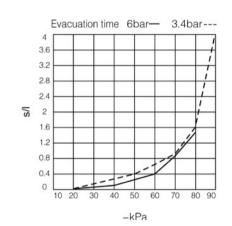
Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption		Vacuum flow (I/min) at different vacuum levels(-kPa)									Max vacuum level
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	116	360	180	115	80	43	30	22.5	15.5	7.5	1.2	92
6	185	420	240	125	100	82	65	38	12.5	3.5	1:-	89

Evacuation time(s/l)to reach different vacuum levels(-kPa)

Air supply pressure	Air consumption		Evacuation time (s/l) to reach different vacuum levels(-kPa)								
bar	I/min	10	20	30	40	50	60	70	80	90	-kPa
3.4	116	0.022	0.06	0.11	0.21	0.4	0.65	0.95	1.60	4	92
6	185	0.018	0.05	0.08	0.18	0.25	0.40	0.62	1.55	-	89





AM50L

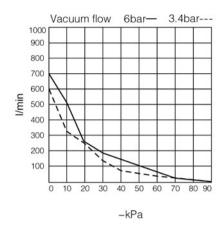
Vacuum flow(I/min)at different vacuum levels(-kPa)

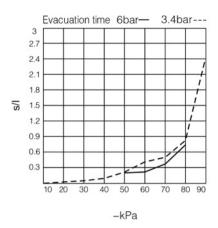
Air supply pressure	Air consumption		V	acuum f	low (I/mi	n) at diff	erent va	cuum le	vels(-kF	Pa)		Max vacuum level
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	230	600	320	250	135	75	60	46	30	13	1.5	92
6	370	700	510	290	195	160	115	70	22	8	:-	89

Evacuation time(s/l)to reach different vacuum levels(-kPa)

Air supply pressure	Air consumption		Evacua	ation time	(s/l) to re	each diffe	rent vacu	ıum level	s(-kPa)		Max vacuum level
bar	l/min	10	20	30	40	50	60	70	80	90	-kPa
3.4	230	0.014	0.031	0.06	0.10	0.20	0.34	0.50	0.80	2.5	92
6	370	0.01	0.022	0.048	0.08	0.11	0.20	0.35	0.78	-	89







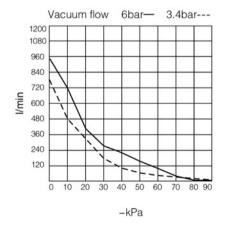
AM75L

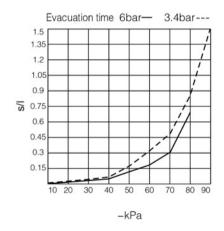
Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption		V	acuum f	low (I/mi	n) at diff	erent va	cuum le	vels(-kF	Pa)		Max vacuum level
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	365	760	445	340	175	110	85	70	43	20	1.8	92
6	610	950	710	380	285	230	170	100	32	11	-	89

Evacuation time(s/l)to reach different vacuum levels(-kPa)

Air supply pressure	Air consumption		Evacua	ation time	(s/I) to re	ach diffe	rent vacu	ium level	s(-kPa)		Max vacuum level
bar	l/min	10	20	30	40	50	60	70	80	90	-kPa
3.4	365	0.012	0.029	0.058	0.095	0.18	0.31	0.46	0.89	1.5	92
6	610	0.009	0.019	0.045	0.075	0.13	0.18	0.31	0.70	-	89





· AM100L

Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption		V	acuum f	low (I/mi	n) at diff	erent va	cuum le	vels(-kF	Pa)		Max vacuum level
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	445	850	550	430	280	145	115	85	60	28	2.2	92
6	720	1010	800	460	385	310	215	125	42	15.5	1	89

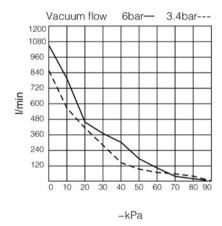
ABX

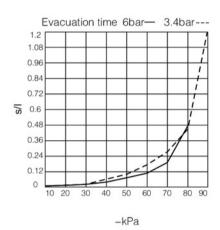
ASBP

AIRBEST

Evacuation time(s/l)to reach different vacuum levels(-kPa)

Air supply pressure	Air consumption		Evacua	ation time	(s/I) to re	each diffe	rent vacu	ıum level	s(-kPa)		Max vacuum level
bar	l/min	10	20	30	40	50	60	70	80	90	-kPa
3.4	455	0.010	0.025	0.043	0.075	0.11	0.19	0.27	0.45	1.2	92
6	720	0.007	0.018	0.038	0.055	0.08	0.12	0.19	0.47	1-	89





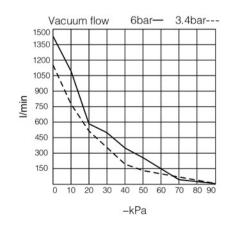
· AM125L

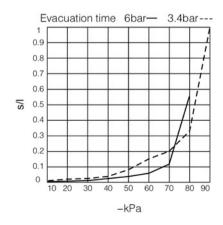
Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption		Va	acuum f	low (I/mi	n) at diff	erent va	cuum le	vels(-kF	Pa)		Max vacuum level
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	545	1150	760	530	350	180	148	115	78	34.5	3.5	92
6	780	1400	1120	560	490	355	260	150	50	25	-	89

Evacuation time(s/l)to reach different vacuum levels(-kPa)

Air supply pressure	Air consumption		Evacua	ation time	(s/l) to re	each diffe	rent vacu	ıum level	s(-kPa)		Max vacuum level
bar	l/min	10	20	30	40	50	60	70	80	90	-kPa
3.4	545	0.006	0.015	0.029	0.052	0.085	0.145	0.202	0.330	1	92
6	780	0.005	0.013	0.026	0.045	0.062	0.115	0.194	0.56	-	89







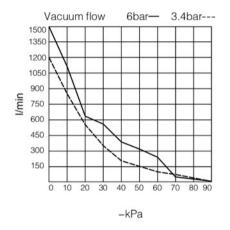
AM150L

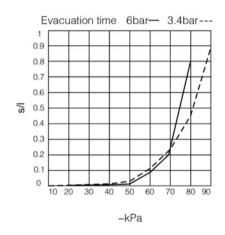
Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption		V	acuum f	low (I/mi	n) at diff	erent va	cuum le	vels(-kF	a)		Max vacuum level
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	655	1200	830	550	360	215	170	130	90	36	5	92
6	810	1500	1110	630	560	385	315	210	65	26	-	89

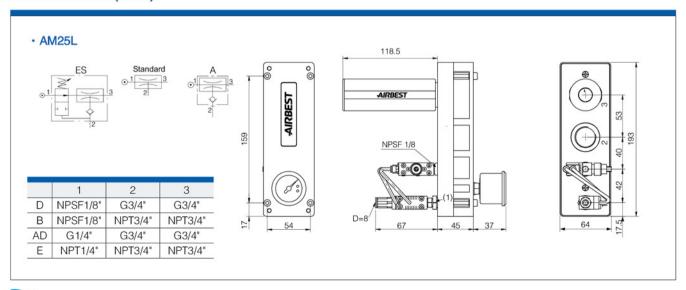
Evacuation time(s/l)to reach different vacuum levels(-kPa)

Air supply pressure	Air consumption		Evacua	ation time	(s/l) to re	each diffe	rent vacu	ium level	s(-kPa)		Max vacuum level
bar	l/min	10	20	30	40	50	60	70	80	90	-kPa
3.4	655	0.005	0.013	0.027	0.045	0.070	0.105	0.23	0.46	0.9	92
6	810	0.003	0.009	0.014	0.030	0.060	0.095	0.20	0.8	-	89





Dimensions (mm)



42

53

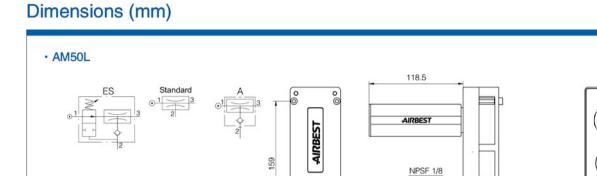
0

AZH

AZU

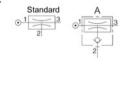
ASBP



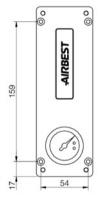


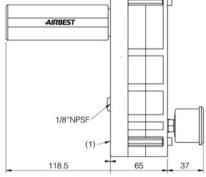
	1	2	3
D	NPSF1/8"	G3/4"	G3/4"
В	NPSF1/8"	NPT3/4"	NPT3/4"
AD	G1/4"	G3/4"	G3/4"
Е	NPT1/4"	NPT3/4"	NPT3/4"

AM75L

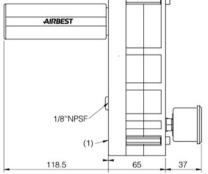


	1	2	3
D	NPSF1/8"	G3/4"	G3/4"
В	NPSF1/8"	NPT3/4"	NPT3/4"
AD	G1/4"	G3/4"	G3/4"
Е	NPT1/4"	NPT3/4"	NPT3/4"

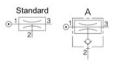




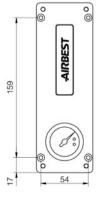
TO ST

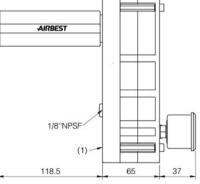


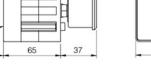
AM100L



	1	2	3
D	NPSF1/8"	G3/4"	G3/4"
В	NPSF1/8"	NPT3/4"	NPT3/4"
AD	G1/4"	G3/4"	G3/4"
Е	NPT1/4"	NPT3/4"	NPT3/4"

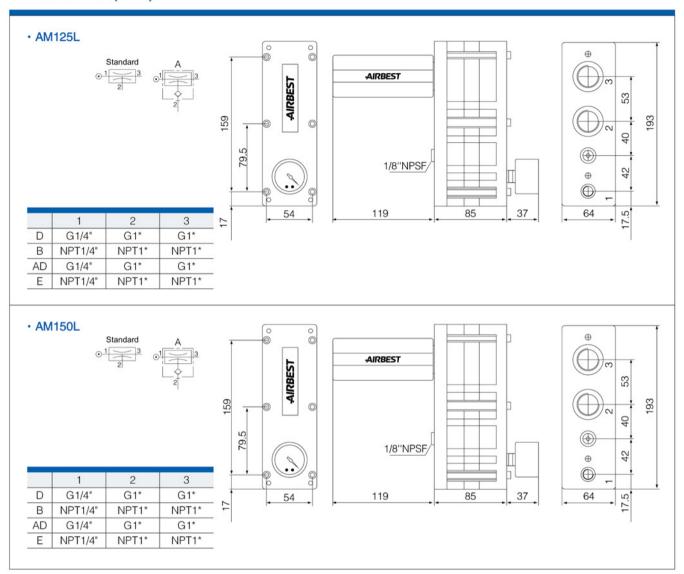








Dimensions (mm)



Repair kits



Model	Ordering Code		
Model	NBR	VITON	EPDM
AM25L	01.0025.402	01.0025.602	01.0025.802
AM50L	01.0025.402	01.0025.602	01.0025.802
AM75L	01.0075.404	01.0075.604	01.0075.804
AM100L	01.0075.404	01.0075.604	01.0075.804
AM125L	01.0125.404	01.0125.604	01.0125.804
AM150L	01.0150.404	01.0150.604	01.0150.804

ABM

AIRBEST

Features

- ☆ Large vacuum flows
- ☆ Short evacuation time
- ☆ Good for handling porous materials or if leakage is present
- ☆ Energy-Saving(ES)available
- ☆ Available with connection plate in aluminium(AD) and composite PPS(D)
- ☆ Supplies with a push-in connector for compressed air,through-flow silencer and mounting brackets



Specifications

		500 miles
Air supply pressure max	bar	7
Air supply pressure(opt)	bar	4~6
Noise level	dBA	60~65
Temperature range	℃	-20~80
Weight	g	750~1200
Material		AL, PPS, SS, PA, NBR

Technical Parameters

Model	Air supply pressure	essure Max.vacuum level	Max.vacuum flow	Air consumption	Weight(PPS materials)	Min tube inner Φ (within 2m)			
Model	bar	(-kPa)	(l/min)	(l/min)	g	Air supply	Vacuum	EXhaust	
AL25			360	105	675	>4	>12	>12	
AL50		6 81	640	215	675	>6	>15	>15	
AL75			81	850	320	837	>8	>19	>22
AL100	0			990	390	837	>8	>19	>22
AL125			1170	480	1075	>10	>25	>32	
AL150	1		1230	620	1075	>10	>25	>32	

How to Order

① Model

3 Sealing

4 Non-Return Valve

ALOF	AL 400		
AL25	AL100	N	NBR
AL50	AL125	F	EPDM
AL75	AL150		LI DIVI
ALIS	AL 150	V	VITON

A	Yes
_	No

2 Connection Plate AL25-AL100

	Air Supply	Vacuum	Exhaust	Material
D	NPSF1/8"	G3/4"	G3/4"	PPS
В	NPSF1/8"	NPT3/4"	NPT3/4"	PPS
AD	G1/4"	G3/4"	G3/4"	Aluminum
Е	NPT1/4"	NPT3/4"	NPT3/4"	Aluminum

AL125-AL150

	Air Supply	Vacuum	Exhaust	Material
D	G1/4"	G1*	G1*	PPS
В	NPT1/4"	NPT1*	NPT1*	PPS
AD	G1/4"	G1*	G1*	Aluminum
Е	NPT1/4"	NPT1*	NPT1*	Aluminum

⑤ Control device

PD	Electric air supply	PVD	Electric control(air supply+vacuum breaking)Combination
PQ	Pneumatic air supply	PVQ	Pneumatic control(air supply+vacuum breaking)Combination
VD	Electric control vacuum breaking	ES	Energy-saving
VQ	Pneumatic control vacuum breaking	_	NO



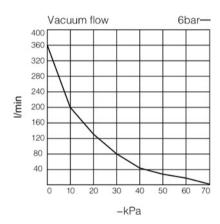
Vacuum flow(I/min)at different vacuum levels(-kPa)

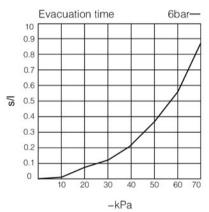
Model -kPa	Air supply pressure	Air consumption	0	10	20	30	40	50	60	70	Max.vacuum level
AL25		105 l/min	360	196	135	85	45	36	27	17	
AL50		215 l/min	640	320	205	145	95	65	45	25	
AL75	Char	320 l/min	850	430	320	190	130	105	65	40	-81kPa
AL100	6 bar	390 l/min	990	580	460	300	185	130	95	52	-orkra
AL125		480 l/min	1170	720	541	350	200	150	125	65	
AL150		620 l/min	1230	760	560	410	210	160	148	85	

Evacuation time(s/l)to reach different vacuum levels(-kPa)

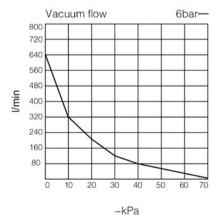
Model -kPa	Air supply pressure	Air consumption	10	20	30	40	50	60	70	Max.vacuum level
AL25		105 l/min	0.03	0.06	0.1	0.2	0.39	0.58	0.87	
AL50		215 l/min	0.018	0.039	0.066	0.12	0.20	0.31	0.51	
AL75	6 bar	320 l/min	0.01	0.02	0.04	0.08	0.12	0.2	0.31	-81kPa
AL100	o bar	390 l/min	0.008	0.017	0.032	0.05	0.09	0.13	0.22	-orkea
AL125		480 l/min	0.006	0.016	0.026	0.045	0.078	0.11	0.18	
AL150		620 l/min	0.005	0.014	0.024	0.04	0.071	0.1	0.16	

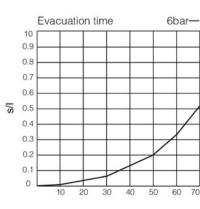
· AL25





· AL50



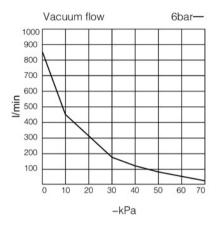


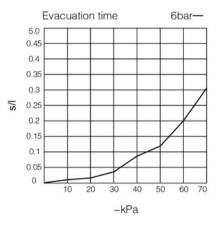
-kPa

ABX

AIRBEST

· AL75



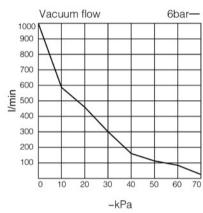


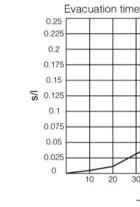
6bar-

60 70

6bar-

· AL100





0.25

0.225

0.2

0.175

0.15

0.1

0.075

0.05

0.025 0

S 0.125

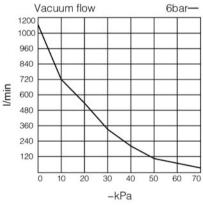
20

Evacuation time

40 50

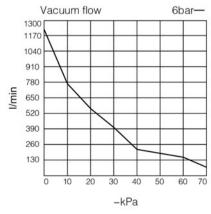
-kPa

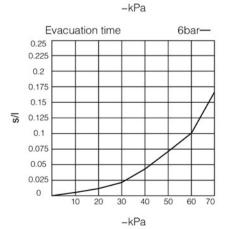
· AL125









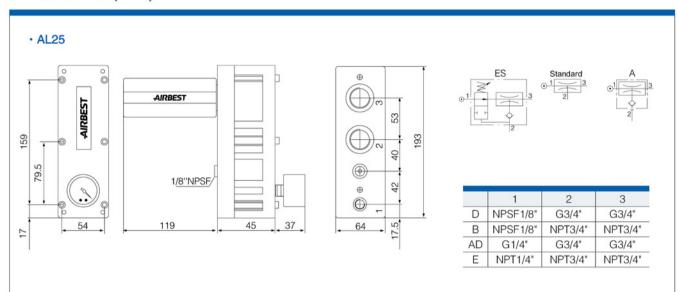


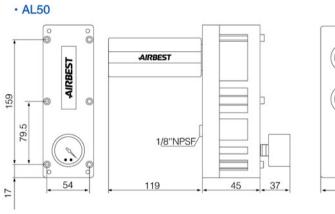
20

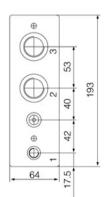
40 50 60

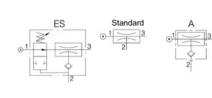


Dimensions (mm)



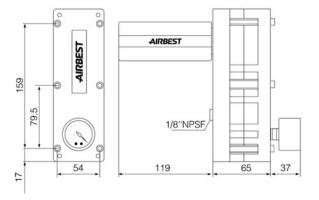


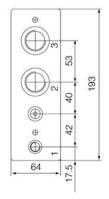


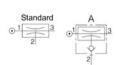


	1	1 2					
D	NPSF1/8"	G3/4"	G3/4"				
В	NPSF1/8"	NPT3/4"	NPT3/4"				
AD	G1/4"	G3/4"	G3/4"				
Е	NPT1/4"	NPT3/4"	NPT3/4"				









9 W	30	2 7	8/	
, ,	1	2	3	
D	NPSF1/8"	G3/4"	G3/4"	
В	NPSF1/8"	NPT3/4"	NPT3/4"	
AD	G1/4"	G3/4"	G3/4"	
Е	NPT1/4"	NPT3/4"	NPT3/4"	

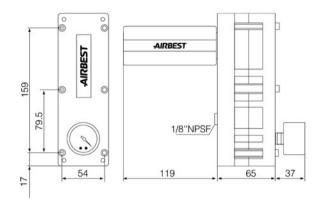
ABM

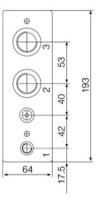
ASBP

AIRBEST

Dimensions (mm)



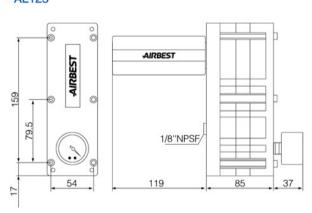


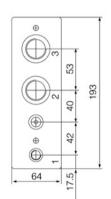




Standard

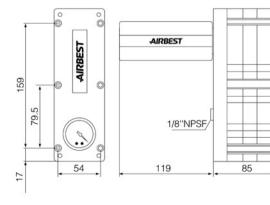
· AL125

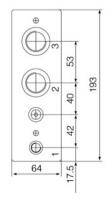




	1	1 2					
D	G1/4"	G1*	G1*				
В	NPT1/4"	NPT1*	NPT1*				
AD	G1/4"	G1*	G1*				
Е	NPT1/4"	NPT1*	NPT1*				

· AL150





37

Α
01 3
L.\$
-1

	1	2	3
D	G1/4"	G1*	G1*
В	NPT1/4"	NPT1*	NPT1*
AD	G1/4"	G1*	G1*
Е	NPT1/4"	NPT1*	NPT1*



Repair kits



Model		Ordering Code	
Model	NBR	VITON	EPDM
AL25	01.0025.402	01.0025.602	01.0025.802
AL50	02.0025.402	02.0025.602	02.0025.802
AL75	02.0075.404	02.0075.604	02.0075.804
AL100	02.0075.404	02.0075.604	02.0075.804
AL125	02.0125.404	02.0125.604	02.0125.804
AL150	01.0150.404	01.0150.604	01.0150.804

AIRBEST

Features

- ☆ Use with practically zero leakage present and nonporous applications
- ☆ Available with connection plate in aluminium (AD) and composite PPS(D)
- ☆ Supplies with a push-in connector for compressed air, through-flow silencer and mounting brackets



Specifications

Air supply pressure max	bar	7
Noise level	dBA	60-65
Temperature range	℃	-20-80
Weight	g	530-620,690-780
Material		AL,PPS,NBR,SS

Technical Parameters

Model	Air supply pressure	Max.vacuum level	Max.vacuum flow	Air consumption	Weight(PPS materials)	Min tube	innerΦ(wi	thin 2m)
Model	bar	(-kPa)	(l/min)	(l/min)	g	Air supply	Vacuum	EXhaust
AH40	6	99.8	150	155	675	>6	>8	>10
AH120	6	100.8	530	440	837	>9	>15	>19

How to Order

AH40 - D - N - A

① Model AH40

AH120

2 Connection Plate

	Air Supply	Vacuum	Exhaust	Material
D	NPSF1/8"	G3/4"	G3/4"	PPS
В	NPSF1/8"	NPT3/4"	NPT3/4"	PPS
AD	G1/4"	G3/4"	G3/4"	AL
E	NPT1/4"	NPT3/4"	NPT3/4"	AL

3 Sealing

1980		
N	NBR	
E	EPDM	
V	VITON	

-			
(4)	Man	-Return	1/01.00
(4)	IVOD-	-Return	valve

A	Yes	
-	No	



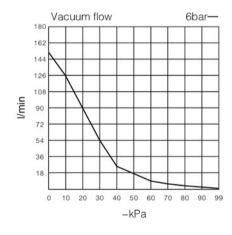
Vacuum flow(I/min)at different vacuum levels(-kPa)

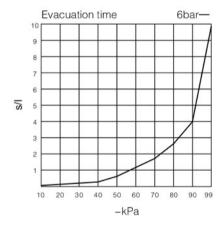
Model –kPa	Air supply pressure	Air consumption	0	10	20	30	40	50	60	70	80	90	99	Max.vacuum level
AH40	Ohar	155 l/min	150	145	105	52.5	27.5	20.5	15	8.5	5.5	3	0.2	-99.8kPa
AH120	6 bar	440 l/min	530	420	265	141	85	65	45	33	21.5	6	0.5	-100.8kPa

Evacuation time(s/l)to reach different vacuum levels(-kPa)

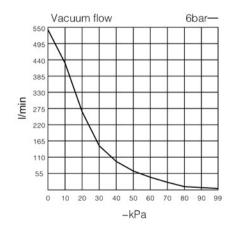
Model -kPa	Air supply pressure	Air consumption	10	20	30	40	50	60	70	80	90	99	Max.vacuum level
AH40	Char	155 l/min	0.035	0.078	0.18	0.32	0.64	1.3	1.8	2.6	3.9	9.8	-99.8kPa
AH120	6 bar	440 l/min	0.02	0.036	0.08	0.14	0.25	0.38	0.66	1.08	3.6	8.5	-100.8kPa

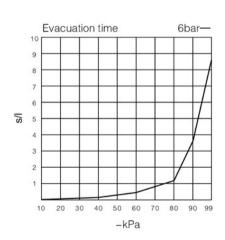
· AH40





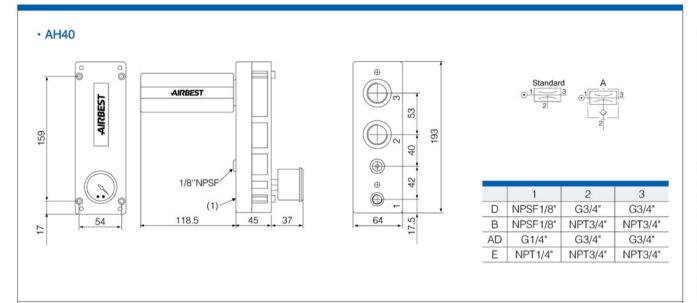
· AH120



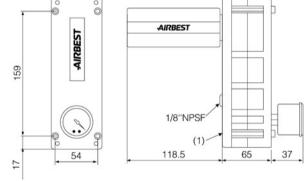


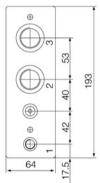


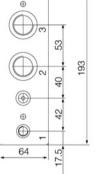
Dimensions (mm)











	1	2	3
D	NPSF1/8"	G3/4"	G3/4"
В	NPSF1/8"	NPT3/4"	NPT3/4"
AD	G1/4"	G3/4"	G3/4"
Е	NPT1/4"	NPT3/4"	NPT3/4"

Repair kits



Model	Ordering Code									
Wodel	NBR	VITON	EPDM							
AH40	01.0025.402	01.0025.602	01.0025.802							
AH120	01.0075.404	01.0075.604	01.0075.804							



Features

The AM combined type high flow vacuum pump can produce very high vacuum flow. This type of pump can be used in many applications especially in high leakage systems, porous materials vacuum system and large vacuum circuits. The vacuum gauge, air pressure gauge, 1*silencer and mounting bracket are also supplied together with the pump.

Specifications

Max.vacuum level	-kPa	92
Max.vacuum flow	l/min	4570
Air supply pressure	bar	3.4~6 Max.7
Temperature range	℃	-20~80
Weight	g	3724~7929
Noise level	dBA	55~68



Technical Parameters

Model	Max.vacuum level	Max.vacuum flow	Air consumption	Weight	Min tub	e innerΦ(wit	:hin 2m)
Model	(-kPa)	(I/min)	(I/min)	g	Air supply	Vacuum	EXhaust
AM150M		1880	720~1120	3724	> 10	> 32	> 40
AM200M		2200	930~1460	3892	> 10 > 32		> 40
AM300M	92	3150	1420~2290	5525	> 12	> 40	> 60
AM400M		3710	1680~2790	6447	> 12	> 40	> 60
AM500M	1	4570 2		7929	> 14	> 45	> 70

How to Order

AM150M P-N-A

1 2 3 4

① Model	
AM150M	AM400M
AM200M	AM500M
AM300M	

2 Exhaus	st specification
Nil	Standard
Р	Side exhaust

N	NBR
E	EPDM
V	VITON

3 Sealing

Non-Return Valve									
А	Yes								
-	No								

AM150M

Vacuum flow(I/min)at different vacuum levels(-kPa)

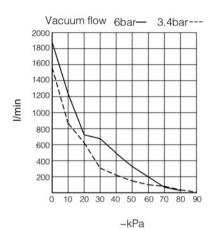
Air supply pressure	Air consumption		Vacuum flow (I/min) at different vacuum levels(-kPa)									
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	720	1550	840	610	315	205	150	95	80	36	2.5	92
6	1120	1880	1210	730	640	490	340	200	75	25		89

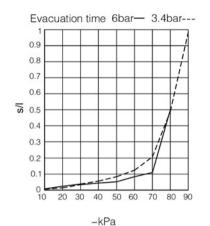
Air supply pressure	Air consumption		Evacuation time (s/l) to reach different vacuum levels(-kPa)									
bar	l/min	10	20	30	40	50	60	70	80	90	-kPa	
3.4	720	0.009	0.02	0.03	0.06	0.09	0.14	0.21	0.47	0.93	92	
6	1120	0.007	0.017	0.026	0.04	0.06	0.08	0.12	0.5		89	

AZH

AZU

ASBP



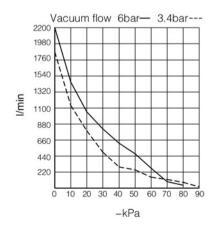


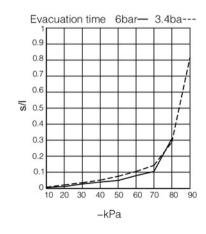
AM200M

Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption		Vacuum flow (I/min) at different vacuum levels(-kPa)									Max.vacuum level
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	930	1840	1090	770	470	280	210	155	95	50	4	92
6	1460	2200	1490	930	800	650	490	245	85	11		89

Air supply pressure	Air consumption		Evacuation time (s/l) to reach different vacuum levels(-kPa)									
bar	l/min	10	20	30	40	50	60	70	80	90	-kPa	
3.4	930	0.006	0.016	0.028	0.04	0.06	0.11	0.16	0.27	0.82	92	
6	1460	0.005	0.012	0.022	0.03	0.04	0.06	0.11	0.33		89	







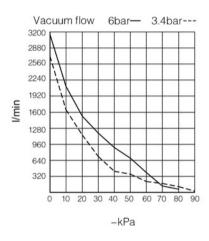
AM300M

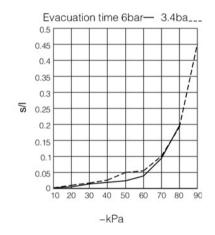
Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption		Vacuum flow (I/min) at different vacuum levels(-kPa)									
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	1420	2750	1610	1160	760	470	325	270	185	80	7.5	92
6	2290	3150	2100	1410	1180	930	660	365	105	75		89

Evacuation time(s/l)to reach different vacuum levels(-kPa)

Air supply pressure	Air consumption		Evacua	ation time	(s/I) to re	each diffe	rent vacu	ium levels	s(-kPa)		Max.vacuum level
bar	l/min	10	20	30	40	50	60	70	80	90	-kPa
3.4	1420	0.004	0.014	0.02	0.03	0.05	0.07	0.11	0.17	0.45	92
6	2290	0.004	0.01	0.013	0.023	0.03	0.04	0.08	0.19		89





AM400M

Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption		V	acuum f	low (I/mi	n) at diff	erent va	cuum le	vels(-kP	a)		Max.vacuum level
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	1680	3290	2080	1420	870	620	372	335	215	100	11.5	92
6	2790	3710	2480	1800	1450	1100	870	370	195	80		89

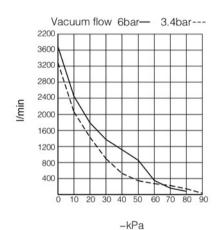
Air supply pressure	Air consumption		Evacua	ation time	(s/l) to re	each diffe	rent vacu	ium levels	s(-kPa)		Max.vacuum level
bar	l/min	10	20	30	40	50	60	70	80	90	-kPa
3.4	1680	0.004	0.01	0.015	0.023	0.03	0.05	0.08	0.13	0.37	92
6	2790	0.003	0.008	0.012	0.02	0.025	0.03	0.06	0.15		89

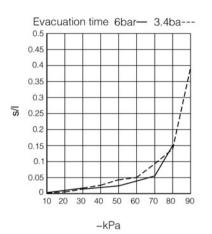
ACV

AQV

AZH

AZU ASBP

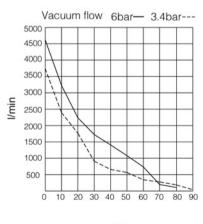




AM500M

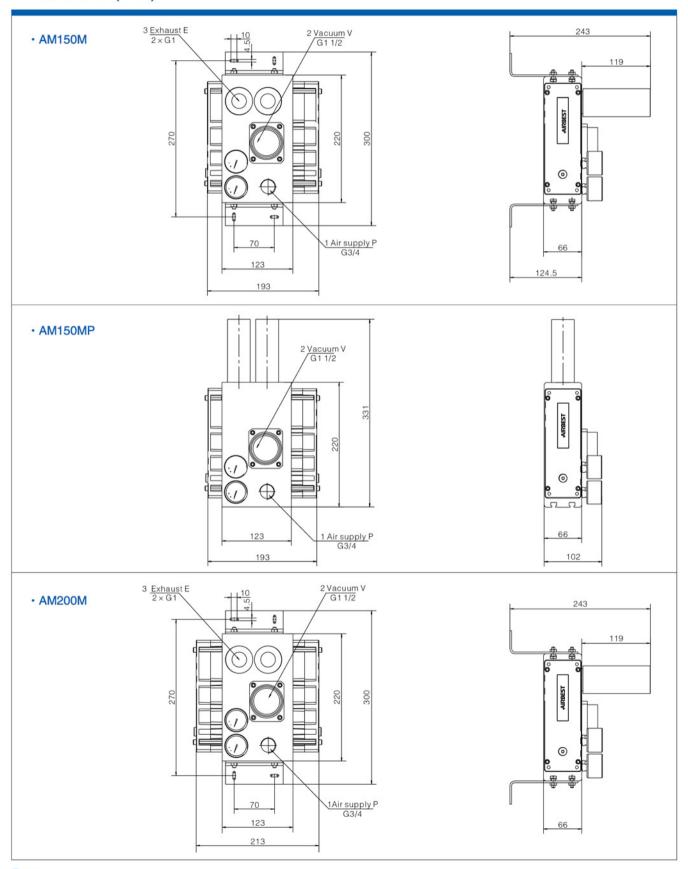
Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption		٧	acuum f	low (I/mi	n) at diff	erent va	cuum le	vels(-kP	a)		Max.vacuum level
bar	l/min	0	10	20	30	40	50	60	70	80	90	-kPa
3.4	2440	3740	2420	1800	970	710	590	360	270	130	15.5	92
6	3520	4570	3240	2330	1800	1470	1140	700	205	115		89





Dimensions (mm)



ABM

ASX

AM

AL ΑH

AL Combined type

AH Combined type

AZL112

AZL212

ACP

ACPF

ACPS

ACV

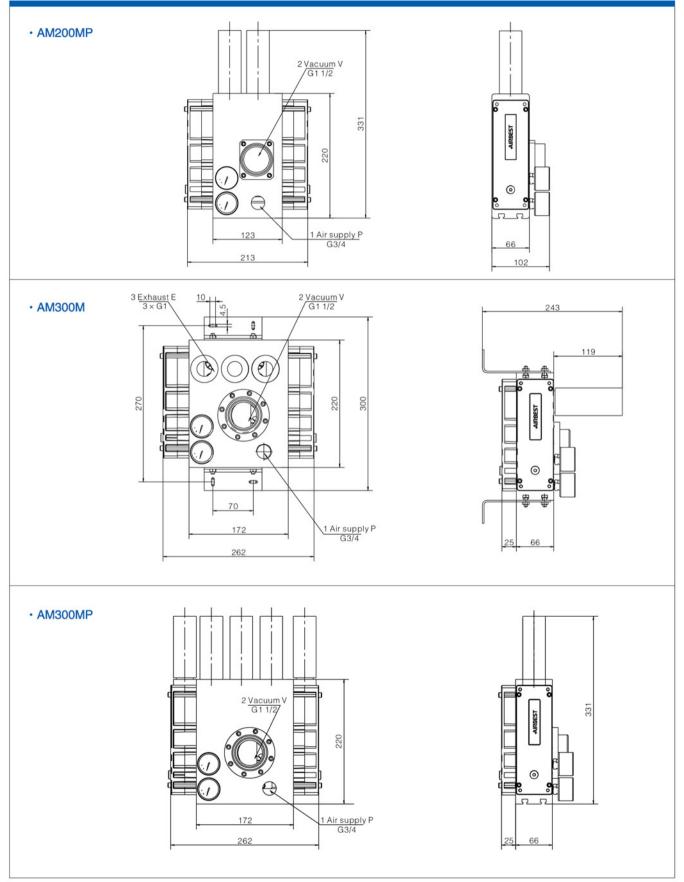
AQV

AZH

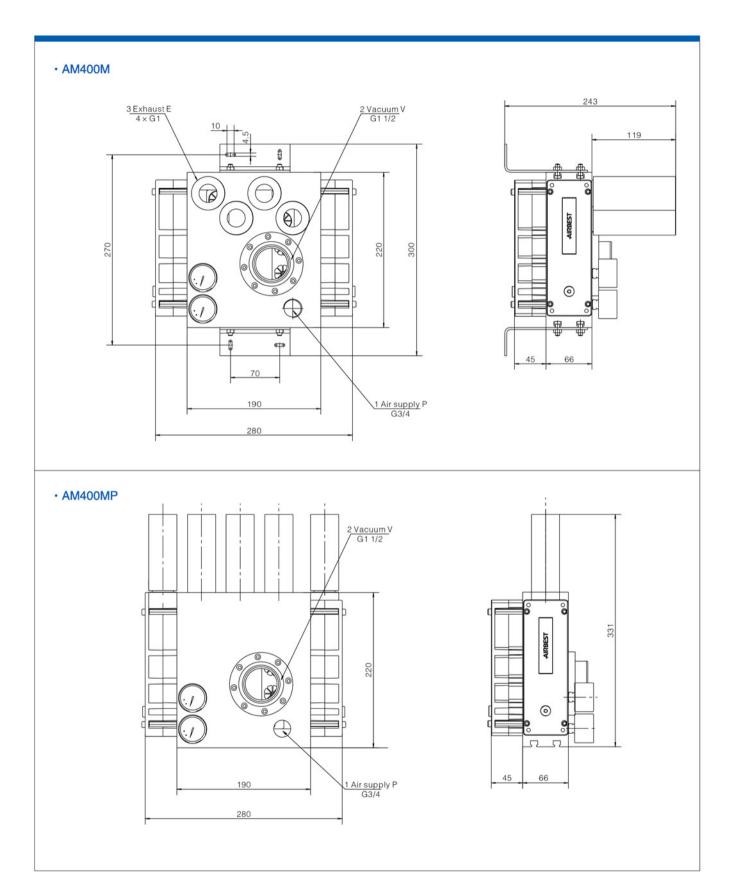
AZU

ASBP









ASX

AM

AL

АН

AM Combined type

AL Combined type

AH Combined type

AZL112

AZL212

ACP

ACPF

ACPS

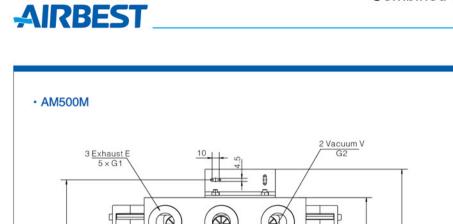
ACV

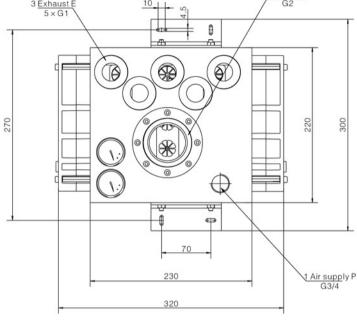
AQV

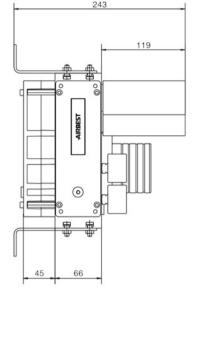
AZH

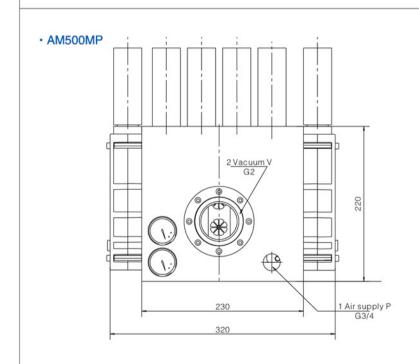
AZU

ASBP











Features

The AL combined type high flow vacuum pump can produce very high vacuum flow. This type of pump can be used in many applications especially in high leakage systems, porous materials vacuum system and large vacuum circuits. The vacuum gauge, air pressure gauge, 1'silencer and mounting bracket are also supplied together with the pump.

Specifications

Max.vacuum level	-kPa	81
Max.vacuum flow	l/min	3970
Air supply pressure	bar	3.4~6 max.7
Temperature range	$^{\circ}$	-20~80
Weight	g	3724~7929
Noise level	dBA	55~68



Technical Parameters

Model	Max.vacuum level	Max.vacuum flow	Air consumption	Weight	Min tub	e innerΦ(wit	thin 2m)
Model	(-kPa)	(l/min)	(I/min)	g	Air supply	Vacuum	EXhaust
AL150M		1660	650	3724	> 10	> 32	> 40
AL200M		1950	830	3892	> 10	> 32	> 40
AL300M	81	2840	1240	5525	> 12	> 40	> 60
AL400M		3340	1650	6447	> 12	> 40	> 60
AL500M		3970	2100	7929	> 14	> 45	> 70

How to Order

AL150M P- N - A

ModelAL150M AL400MAL200M AL500M

AL300M

② Exhaus	st specification
Nil	Standard
P	Side exhaust

N	NBR
E	EPDM
V	VITON

3 Sealing

Non-Ret	urn valve
А	Yes
_	No

Vacuum flow(I/min)at different vacuum levels(-kPa)

Model	Air supply pressure	Air consumption		Vacuui	m flow (l/min) at	differer	nt vacuu	ım level:	s(-kPa)		Max.vacuum level
Model	bar	I/min	0	10	20	30	40	50	60	70	80	-kPa
AL150M		650	1660	870	720	450	240	160	115	70	32	81
AL200M		830	1950	1140	870	520	305	230	160	105	38	81
AL300M	6	1240	2840	1660	1330	810	580	360	265	155	45	81
AL400M		1650	3340	2200	1730	1110	630	590	370	225	80	81
AL500M		2100	3970	2710	1990	1320	790	660	360	270	92	81

Model	Air supply pressure	Air consumption	Eva	cuation t	time (s/l)	to reach	different	vacuum	levels(-	kPa)	Max.vacuum level
Model	bar	l/min	10	20	30	40	50	60	70	80	-kPa
AL150M		650	0.007	0.019	0.028	0.051	0.105	0.198	0.21	0.37	81
AL200M		830	0.005	0.013	0.023	0.04	0.06	0.098	0.15	0.3	81
AL300M	6	1240	0.004	0.011	0.018	0.03	0.04	0.07	0.1	0.2	81
AL400M		1650	0.003	0.008	0.01	0.015	0.03	0.06	0.08	0.15	81
AL500M		2100	0.002	0.005	0.008	0.01	0.022	0.04	0.06	0.1	81

Evacuation time 6bar-

-kPa

0.4

0.35

0.3 S 0.25

> 0.2 0.15

> > 0.1

0.05

ACPS

ACV

AQV

AZH AZU

ASBP

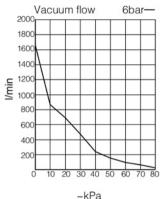
AL150M

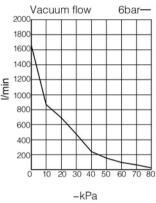
AL200M

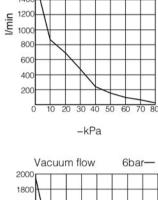
AL300M

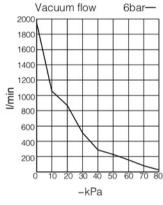
AL400M

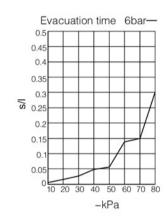
AIRBEST

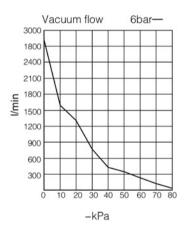


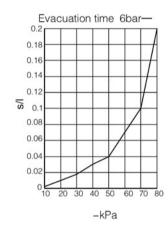












Evacuation time 6bar-

-kPa

0.2

0.18

0.16

0.14 0.12

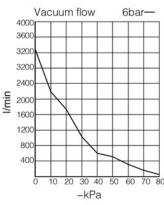
0.

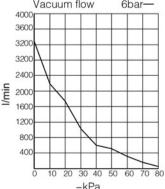
0.08

0.06

0.02

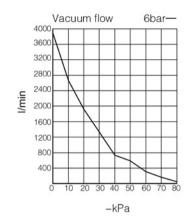
l/s

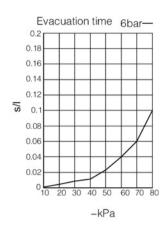




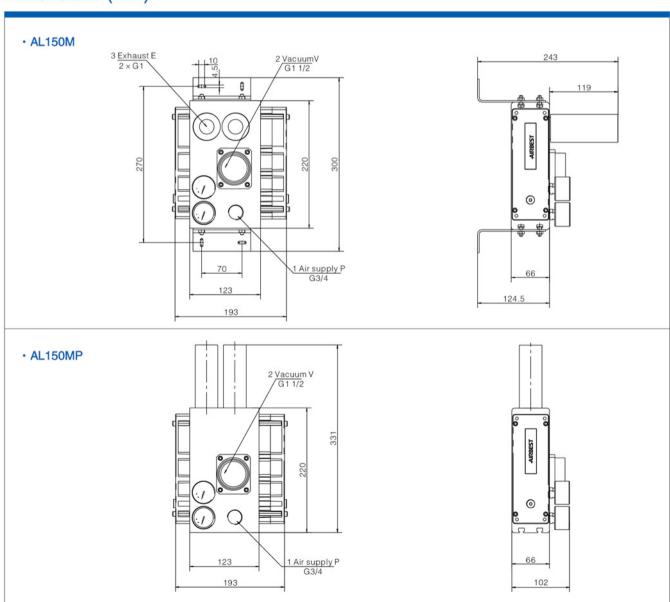


AL500M





Dimensions (mm)



ASM

ASX

AM

AL

ΑH

AM Combined type

AH Combined type

AZL112

AZL212

ACP

ACPF **ACPS**

ACV

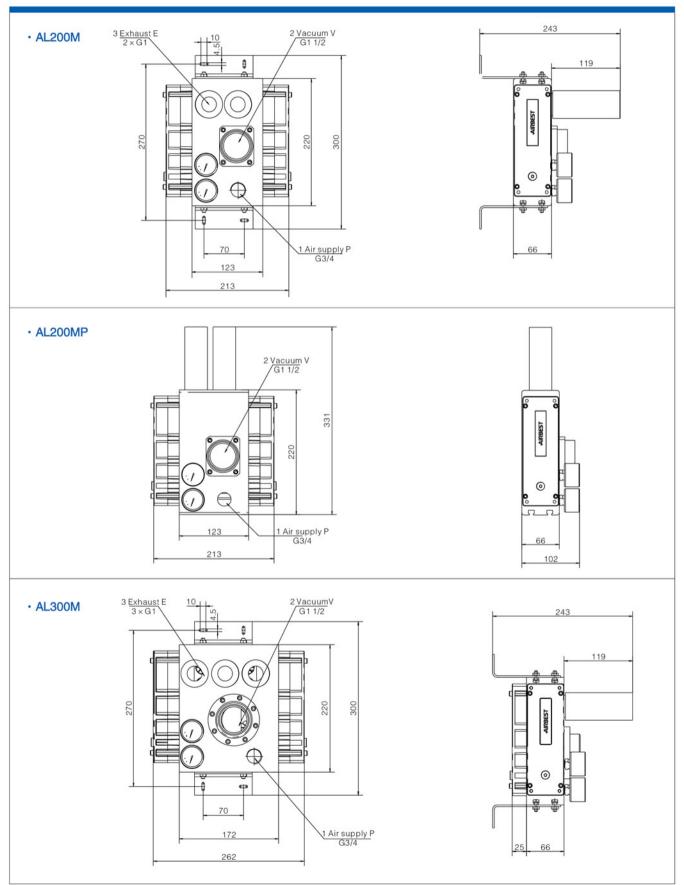
AQV

AZH

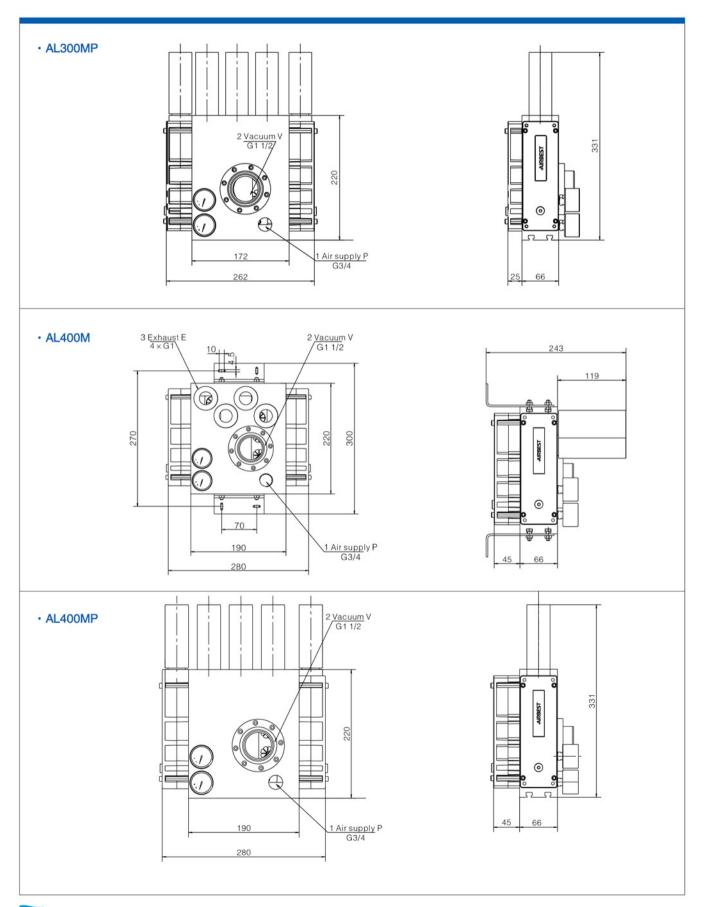
AZU

ASBP









ASX

AM

.

AL

AH

AM Combined type

AL Combined type

AH Combined type

AZL112

AZL212

ACP

ACPF

ACPS

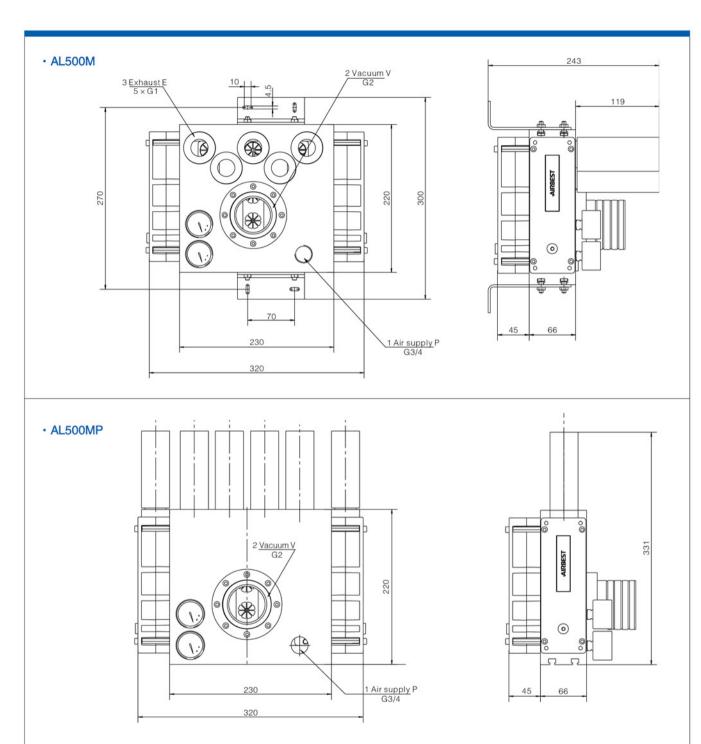
ACV

AQV

AZH

AZU

ASBP



AIRBEST



Features

The AH combined type vacuum pump can produce very high vacuum level, meanwhile maintaining good flow rates for quick evacuation time. The vacuum gauge, air pressure gauge, 1"silencer and mounting bracket are also supplied together with the pump.



Max.vacuum level	-kPa	100.5
Max.vacuum flow	l/min	2040
Air supply pressure	bar	3.4~6 Max.7
Temperature range	°C	-20~80
Weight	g	3892~6447
Noise level	dBA	60~65



Technical Parameters

Model	Max.vacuum level	Max.vacuum flow	Air consumption	Weight	Min tube inner Φ (within 2m)				
iviodei	(-kPa)	(I/min)	(I/min)	g	Air supply	Vacuum	EXhaust		
AH240M	100.5	1050	960	3892	> 10	> 20	> 20		
AH480M	100.5	2040	1860	6447	> 12	> 25	> 30		

How to Order

AH240M P - N - A

1	Model	
	AH240M	
	AH480M	

∠ Exnausi	specification
Nil	Standard
Р	Side exhaust

Sealing	
N	NBR
Е	EPDM
V	VITON

y Hon Hot	urn Valve
А	Yes
-	No

Vacuum flow(I/min)at different vacuum levels(-kPa)

Model	Air supply pressure Air consumption		Vacuum flow (I/min) at different vacuum levels(-kPa)											Max.vacuum level	
Model	bar	l/min	0	10	20	30	40	50	60	70	80	90	95	99	-kPa
AH240M	6	960	1050	820	560	310	155	125	85	70	39	20	8	1.3	100.5
AH480M	0	1860	2040	1600	1150	690	345	270	210	120	110	19	15	2.5	100.5

Model	Air supply pressure	Air consumption		Evacu	ation ti	me (s/l) to rea	ach diff	erent v	/acuun	n levels	s(-kPa))	Max.vacuum level
Model	bar	l/min	10	20	30	40	50	60	70	80	90	95	99	-kPa
AH240M	6	960	0.006	0.014	0.03	0.06	0.11	0.17	0.25	0.38	0.7	1.1	2.2	100.5
AH480M	0	1860	0.004	0.01	0.02	0.03	0.05	0.08	0.13	0.2	0.37	0.55	1.2	100.5

ABX

ACPS

ACV

AQV

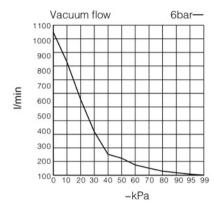
AZH

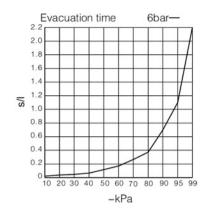
AZU

ASBP

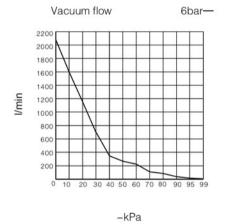
AIRBEST

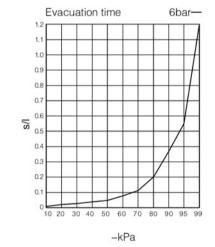
· AH240M



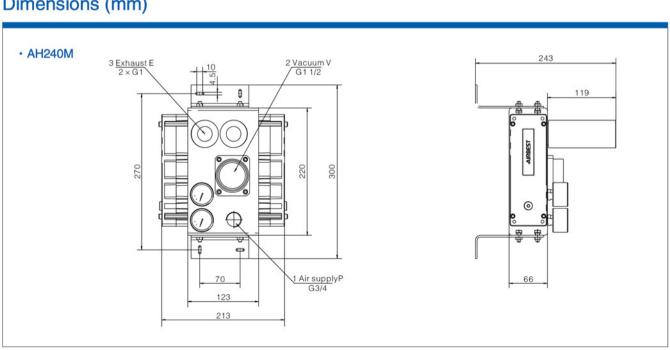


AH480M

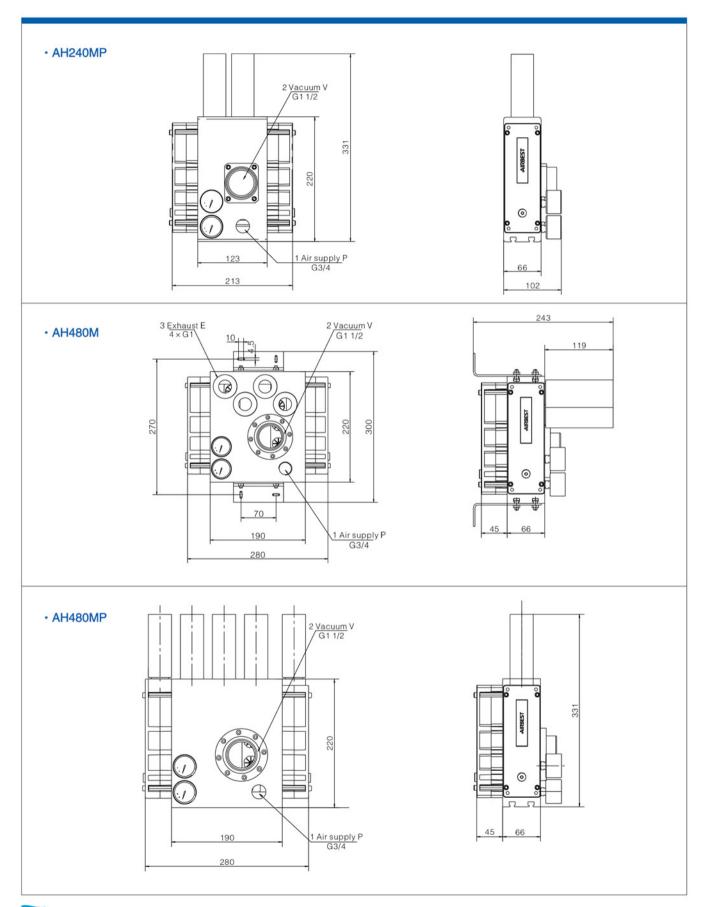




Dimensions (mm)







ABM

ABX

ASBP

AIRBEST

Features

- Adopt 3 levels rise pressure pipe, vacuum flow rate can amplify 250%
- ☆ Can be with valve, vacuum gauge and vacuum pressure switch
- ☆ Can replace filter element
- ☆ Built-in vacuum filter and silencer
- ☆ Can be installed at 3 directions(top,bottom,side)

Specifications

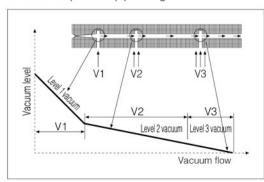
	Φ1.2mm
Э	100l/min
	63I/min
е	-84kPa
ure	7bar
ge	2~5bar
ssure	4bar
e range	e 5~50℃
e range	9 5

Supply/Release Valve **Specifications**

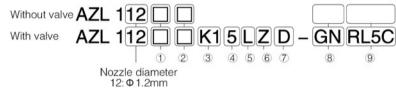
Part Number	APJ514-□□□
Type of valve actuation	Internal pilot type N.C.
Operating pressure range	2~5bar
Ambient and fluid temperature	5~50°C
Response time(for 0.5MPa)	25ms or less
Max.operating frequency	5Hz
Manual operation	Non-locking push type
	slotted locking type
Pilot exhaust type	Pilot valve individual exhaust type.
	Main valve/Pilot valve common exhaust
Lubrication	Not required
Mounting position	Unrestricted
Impact/Vibration resistance	150/30m/s ²
Enclosure	Dust proof

Energy saving

3 Levels rise pressure pipe design



How to Order



1 Exhaust specifications

Nil	Built-in silencer
Р	Port exhaust

2 Exhaust port thread specification (port exhaust only)

Nil	Rc 1/2
F	G 1/2
Ν	1/2-14NPT
Т	1/2-14NPTF

3 Supply valve/Release valve combination

K1	With supply and release valves
K2	With supply valve

4 Rated Voltage

DC Spec	cification	AC Spe	cification
5	24V	1	100V
6	12V	2	200V
V	6V	3	110V
S	5V	4	220
R	3V		
	•		

6 Light/Surge voltage suppressor

Nil	Without light/surge Voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor

7 Manual override

D Slotted locking type

8 Vacuum pressure sensor

Nil	None	
GN	Vacuum adapter Rc1/8	

9 Digital vacuum pressure switch specification

RL5C

g.		
RL5C(-100~	-100kPa)	
	NPN Output	
RL5C-04	PNP Output	length2m
RL5V(0~-10	OkPa)	
RL5V-02	NPN Output	lead wire
RL5V-04	PNP Output	length2m

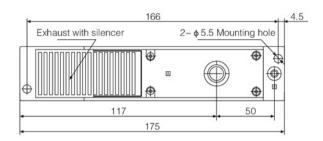
5 Lead wire type

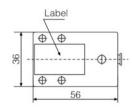
G	Direct lead out type	Lead wire length 0.3m
L	L type plug connector	Lead wire length 0.3m



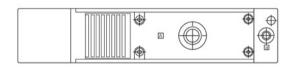
Dimensions (mm)

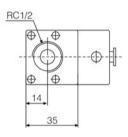
Standard AZL112





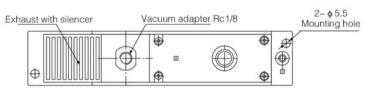
Port exhaust AZL112P

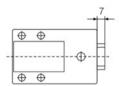




With vacuum adapter

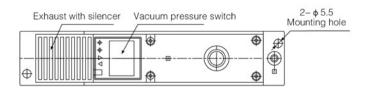
AZL112-GN

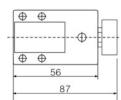




With digital vacuum pressure switch

AZL112-GN-RL5





ACP

ACPF

ACPS

ACV

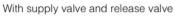
AQV

AZH

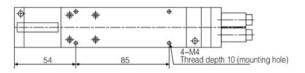
AZU

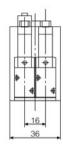
ASBP

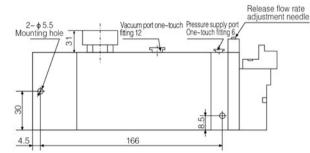




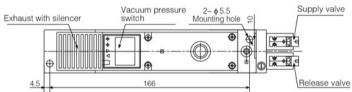
AZL112-K1□L□□-GN-RL5





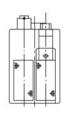


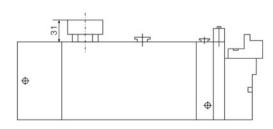


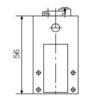


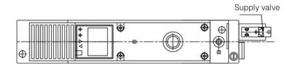
With supply valve AZL112-K2□L□□-GN-RL5











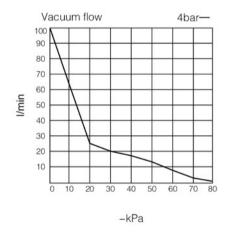


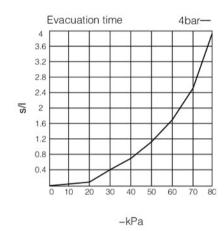
· AZL112

Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption	77	Va	cuum flov	v (I/min) a	t differen	t vacuum	levels(-k	Pa)		Max.vacuum level
bar	I/min	0	10	20	30	40	50	60	70	80	-kPa
4	63	100	65	26	20	18.5	13	8	5	2.8	84

Air supply pressure	Air consumption		Evacuati	on time (s/	l) to reach	different v	acuum lev	els(-kPa)		Max.vacuum level
bar	I/min	10	20	30	40	50	60	70	80	-kPa
4	63	0.05	0.172	0.4	0.67	1.07	1.63	2.46	3.9	84





ABM

ASBP

Features

AIRBEST

- Adopt 2 fluctuation overlap 3 levels rise pressure pipe, the flow rate saving and vacuum flow rate is 2 times of AZL112
- ☆ Can be with vacuum pressure switch
- ☆ Built-in silencer
- ☆ Can be installed at 2 directions(bottom, side)

How to Order



1 Nozzle diameter

12	Ф1.	2mm	

2 Exhaust specifications

Nil	Built-in silencer
Р	Port exhaust

3 Vacuum pressure sensor

Nil	None
GN	Adaptor Rc1/8

4 Digital vacuum pressure switch specifications

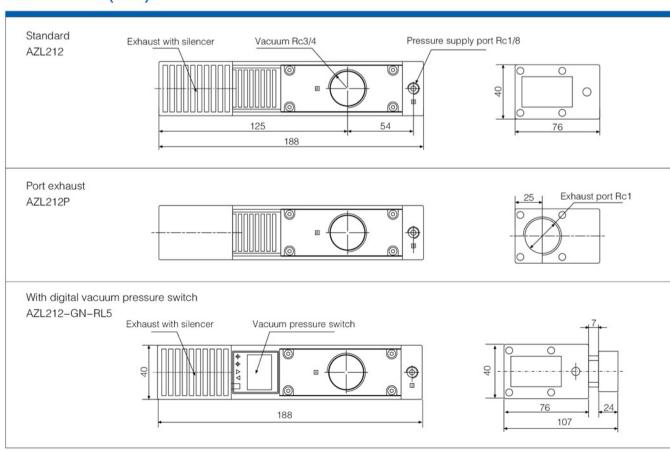
RL5

RL5C(-100	~100kPa)	
RL5C-02	NPN Output	Lead wire
RL5C-04	PNP Output	Length 2m
RL5V(0~-1	00kPa)	
RL5V-02	NPN Output	Lead wire
RL5V-04	PNP Output	Length 2m

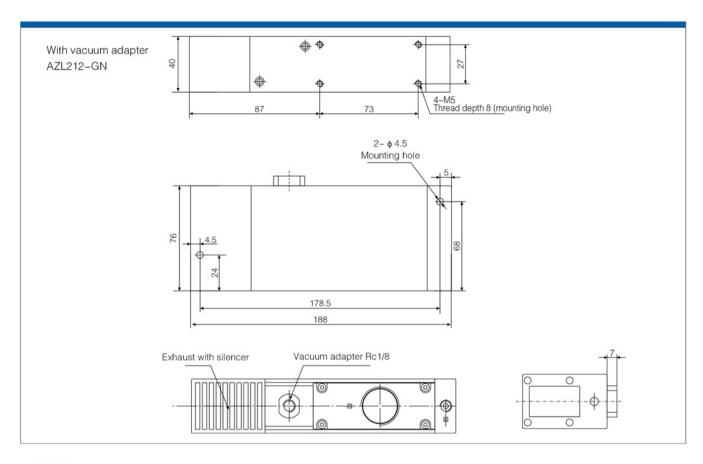


Nozzle diameter Φ 1.2mm × 2 Max.vacuum flow rate 2001/min Air consumption 126l/min Max.vacuum pressure -84kPa Max.operating pressure 7bar Supply pressure range 2~5bar Standard supply pressure 4bar Operating temperature range 5~50℃

Dimensions (mm)





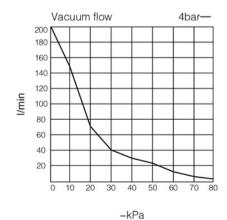


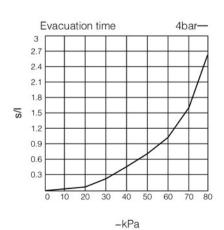
· AZL212

Vacuum flow(I/min)at different vacuum levels(-kPa)

Air supply pressure	Air consumption		Va	cuum flov	w (I/min) a	t differen	t vacuum	levels(-k	(Pa)		Max.vacuum level
bar	l/min '	0	10	20	30	40	50	60	70	80	-kPa
4	126	200	150	52	40	30	25	15	8	3	84

Air supply pressure	Air consumption		Evacuati	on time (s/	l) to reach	different v	acuum lev	els(-kPa)		Max.vacuum level
bar	I/min	10	20	30	40	50	60	70	80	-kPa
4	126	0.011	0.076	0.246	0.415	0.646	0.98	1.52	2.46	84





ABM

ASBP

AIRBEST

Features

This is an adjustable flow rate single stage vacuum pump. The design of this pump enables particles and small debris to pass directly through the pump.

Specifications

Max.vacuum level	-84kPa
Max.vacuum flow rate	3390I/m
Air supply pressure	4-6bar Max.7bar
Air supply type	Dry Compressed air



How to Order

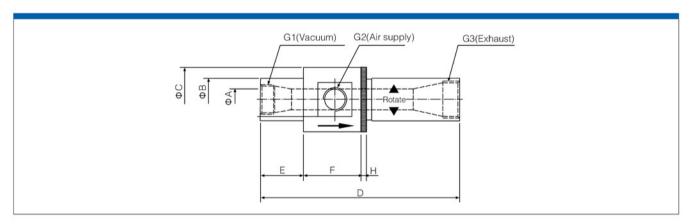
ACP 250 AL

1 Specification

250	500
375	750

2 Material

AL-Aluminum
SS-Stainless steel



Madal					Dime	ension				
Model	ΦА	ΦВ	ΦС	D	Е	F	Н	G1	G2	G3
ACP250	6.5	19	32	94-105	22	32	5	G1/4	G1/8	G1/4
ACP375	10	25	45	155-165	38	45	5	G3/8	G3/8	G1/2
ACP500	13	32	51	155-160	38	51	5	G1/2	G3/8	G3/4
ACP750	19	38	58	175-189	38	51	5	G3/4	G1/2	G1

Model	Air supply pressure	AC	ACP series Air Consumption(L/m)at different vacuum levels(-kPa)						
Model	bar	17	34	50	68	84			
ACP250		112	169	233	276	342			
ACP375	<i></i>	176	327	485	595	825			
ACP500	5.5	340	625	795	940	1280			
ACP750		650	875	1250	1790	2550			

Model		ACP series Vacuu	m flow(L/m)at different Va	cuum levels(-kPa)	
Model	17	34	50	68	84
ACP250	280	240	200	162	125
ACP375	846	735	620	520	395
ACP500	1695	1325	1130	990	650
ACP750	3390	2460	1970	1440	1130



Features

The vacuum pump has a straight through design,hence they are non-clogging and maintenance fee,and it is particular for transfering particles,powders.High flow can be achieved with in line bore sizes up to 38mm.

Specifications

Max.vacuum level	-35kPa
Max.vacuum flow rate	5610l/m
Air supply pressure	4-6bar Max.7bar
Air supply type	Dry Compressed air

How to Order

5-6 15-6

ACPF 2-3 - AL

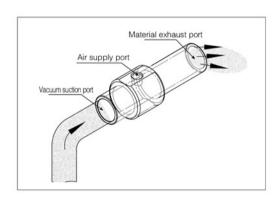
1 Model 2 Material

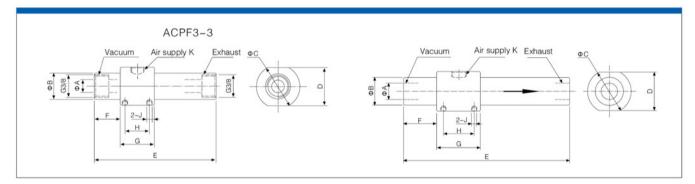
2-3 7-6
3-3 15-3 AL-Aluminum
SS-Stainless steel

Applications

- ☆ Transfering materials
- ☆ Seledge removal intrimming operation
- ☆ Convy wheat,corn
- ☆ Transfer powder detargent and plastic powder
- ☆ Chip removal in drilling operation
- ☆ Powder removal in grinding operation







Model		e o	,		Dime	nsion	(C *)	gei s	1 .	ie.
Model	ΦА	ΦВ	ΦС	D	E	F	G	Н	J	K
ACPF2-3	6.5	18.5	32	30	89	19	25	18	M4	G1/8
ACPF3-3	9.5	18.5	32	30	89	19	25	18	M4	G1/8
ACPF5-6	12.5	24	38	34	140	25.5	32	23	M4	G1/4
ACPF7-6	19	32	50	45	190	38	50	35	M4	G3/8
ACPF15-3	25	38	59	55	198	40	56	40	M4	G3/8
ACPF15-6	38	49.6	69	65	205	40	60	42	M4	G3/8

ACPF Series Vacuum flow(L/m), Vacuum level(-kPa), Air Consumption(L/m)

Model	Air velocity	Vacuum flow	Vacuum level	Air consur	nption(I/m)
iviodei	ft/s	I/m	-kPa	2.8bar	5.5bar
ACPF2-3	485	295	26	85	160
ACPF3-3	328	425	16	95	170
ACPF5-6	361	870	35	395	680
ACPF7-6	325	1825	28	790	1365
ACPF15-3	223	4400	4.4	405	695
ACPF15-6	270	5610	9	790	1365

AZH AZU

ASBP

AIRBEST

Features

- ♦ Various models, suitable for different applications
- ♦With straight vacuum passage, low vacuum level, high vacuum flow

Applications

- ♦Transport of porous materials such as foams, textiles, paper and so on
- ◇Transport of granule materials such as powder, beans, rice, coffee bean and other bulk goods



Model

Model	Nozzle diameter (mm)	Material
ACPS	100-10 200-20 400-40 750-75	AL – Aluminum Alloy

△ACPS100

How to order

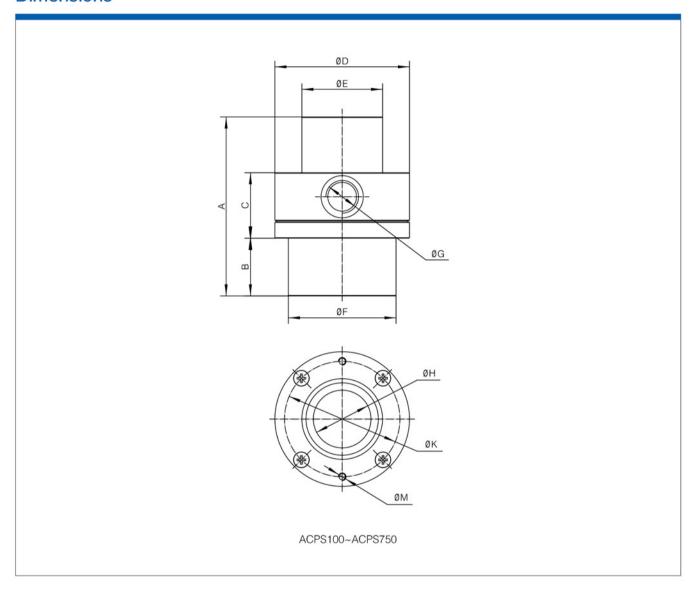
Specification Model	А	В
ACPS100	111.1001.0000	111.1002.0000
ACPS200	111.2001.0000	111.2002.0000
ACPS400	111.4001.0000	111.4002.0000
ACPS750	111.7501.0000	111.7502.0000

Technical parameters

Model	Max. vacuum flow I/m (5bar)	Max. vacuum level -kPa	Operating pressure bar	Air consumption I/m (5bar)	Operating temperature °C	Weight g
ACPS100	655	12		118		76.5
ACPS200	1950		0.0	221	00.00	189
ACPS400	2900	2~8	2~6	430	-20~80	522
ACPS750	8588			876		2308



Dimensions



Dimension(mm) Model	А	В	С	D	E	F	G	Н	К	М
ACPS100	70	23	21	37	19	19	G1/8	10	29	M4
ACPS200	90	30	30	50	32	38	G1/4	20	41.5	M4
ACPS400	96	35	35	84	52	75	G3/8	40	72	M4
ACPS750	180	35	65	140	100	125	G1/2	75	126	M6

ABM

ABX

ASBP

AIRBEST









Specifications

Model	Linit	ACV	/-05	F	ACV-1	0	A	ACV-1	5	A	ACV-2	0	ACV	-25	ACV	/-30
Model	Unit	HS	LS	HS	LS	HR	HS	LS	HR	HS	LS	HR	HS	LS	HS	LS
Fluid			No oil compressed air													
Ambient temperature	℃		0~60(No freezing)													
Operating pressure range	bar		1~6													
Nozzle diameter	Φmm	0.5 1.0				1.5			2.0			2.5		3.0		
Rated pressure	bar	į	5		5	3.5	5 3.5		3.5	5 3.5		3.5	5		5	
Vacuum flow rate	I/min	7	10	27	36	25	63	95	54	110	170	88	160	250	225	350
Max.vacuum pressure	kPa	-87	-57	-92	-57	-91	-92	-57	-91	-92	-57	-91	-92	-57	-92	-57
Air consumption flow rate	I/min	1	3		44			100			180		26	65	38	35
Net Without pressure switch	g	8	0	80		140		350			730		870			
weight With pressure switch	g	12	20		120		190		460		_		-			

How to Order

ACV - 05 CK 1 2 3 4

1 Nozzle diameter

	27
05	Φ0.5
10	Φ1.0
15	Φ1.5
20	Φ2.0
25	Φ2.5
30	Ф3.0

2 Max.vacuum pressure

Н	-87kPa(Pressure type)
L	-53kPa(Flow type)

3 Rated pressure

S	5bar	
R	3.5bar	

4 Pressure switch

Nil	Standard(no pressure switch)
CK	With adjustable pressure switch
С	With unadjustable pressure switch

Note: When nozzle diameter is 30, only standard type is available (no pressure switch)

Model of spare parts

Silencer

PSU01	ACV-05, ACV-10
PSU02	ACV-15
PSU04	ACV-20
ABS06	ACV-25, ACV-30

· Pressure switch ACV-CK

· Combination table

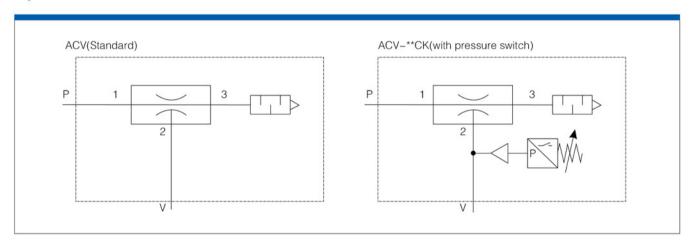
①	(2)		4		
(1)	2	S		4	
OF	Н	0	×	0	
05	L	0	×	0	
10	Н	0	0	0	
10	L	0	×	0	
15	Н	0	0	0	
15	L	0	×	0	
20	Н	0	0	0	
20	L	0	×	0	
25	Н	0	×	0	
25	L	0	×	0	
20.4	Н	0	×	×	
30A	L	0	×	×	



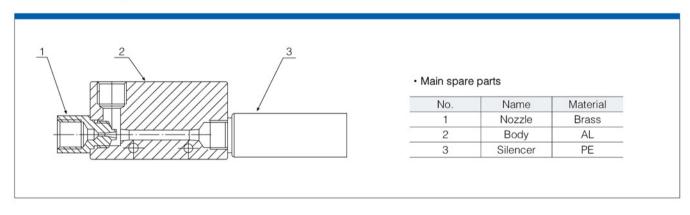
Pressure switch specifications

	A CONTRACTOR OF THE PARTY OF TH		- 1976				
Model	Unit	CK					
Fluid		Air					
Setting pressure range	kPa	-20~-53					
Ambient temperature	℃	0~60(No freezing)					
Operating accuracy	kPa	±5.3					
Hysteresis	kPa	4.0~	13.3				
Service voltage	V	AC250V below	DC24V below				
Load current	A	3 0.2					

Symbol



Structure diagram



ABM

ABX

ASM

ASX

AM

AL

ΑH

AM Combined type

AL Combined type

AH Combined type

AZL112

AZL212

ACP

ACPF

ACPS

AQV

AZH

AZU

ASBP

Vacuum flow(I/min)at different vacuum levels(-kPa)

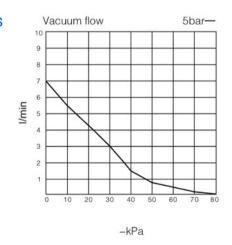
Model -kPa	Air supply pressure	Air consumption	0	10	20	30	40	50	60	70	80	Max.vacuum level
ACV-05HS		13 l/min	7	5.5	4.2	3	1.5	0.8	0.5	0.2	0.05	-87kPa
ACV-10HS		44 I/min	27	19	16	14.5	13	10.5	8	6.5	2.5	
ACV-15HS		100 l/min	63	55	44	37	32.5	25	18	14	9	
ACV-20HS	5 bar	180 l/min	110	100	85	75	55	40.5	30	20	12	-92kPa
ACV-25HS		265 I/min	160	155	140	120	95	72	47	28	15	
ACV-30HS		385 I/min	225	200	160	135	105	78	55	33	19	

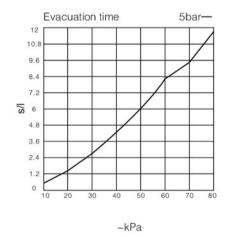
Evacuation time(s/l)to reach different vacuum levels(-kPa)

Model -kPa	Air supply pressure	Air consumption	10	20	30	40	50	60	70	80	Max.vacuum level
ACV-05HS		13 l/min	0.676	1.384	2.769	4.323	6.015	8.246	9.438	11.820	-87kPa
ACV-10HS		44 I/min	0.2	0.492	0.815	1.246	1.738	2.323	2.953	4	
ACV-15HS	- 5 bar	100 l/min	0.078	0.187	0.32	0.477	0.692	0.924	1.384	1.953	
ACV-20HS		180 l/min	0.043	0.1	0.167	0.23	0.338	0.492	0.707	0.923	-92kPa
ACV-25HS		265 l/min	0.03	0.069	0.112	0.168	0.241	0.345	0.494	0.753	
ACV-30HS		385 l/min	0.029	0.058	0.092	0.136	0.196	0.265	0.406	0.625	

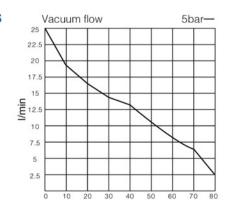
· ACV-05HS

AIRBEST

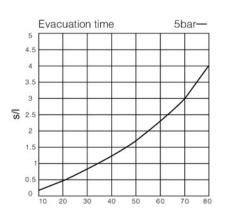




· ACV-10HS



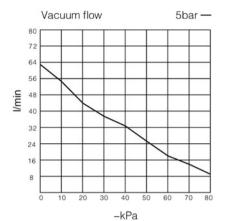
-kPa



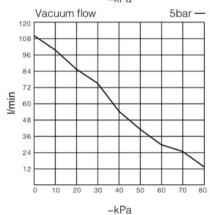
-kPa



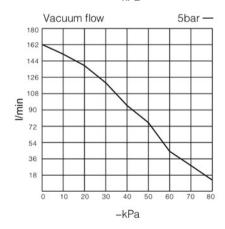
· ACV-15HS



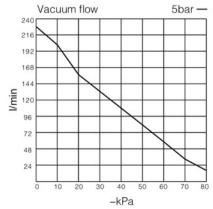
· ACV-20HS

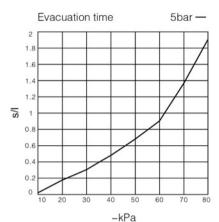


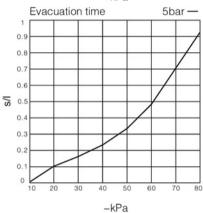
· ACV-25HS

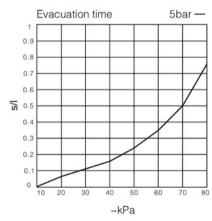


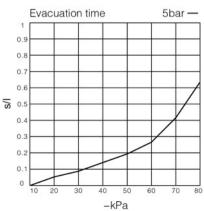
· ACV-30HS











1 Pumps ABM

ABX

ASM

ASX

AL

AM

АН

AM Combined type AL Combined type

Combined type

AH Combined type

AZL112 AZL212

ACP

ACPF

ACPS

AQV AZH

AZU

ASBP

Vacuum flow(I/min)at different vacuum levels(-kPa)

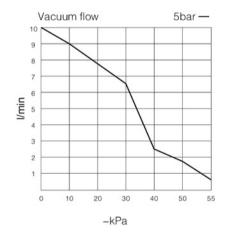
Model -kPa	Air supply pressure	Air consumption	0	10	20	30	40	50	55	Max.vacuum level
ACV-05LS		13 l/min	10	9	8	6.5	2.5	1.8	0.7	
ACV-10LS		44 I/min	36	31.5	23.5	16.5	10	6.5	2.5	
ACV-15LS	5 bar	100 l/min	95	85	70	47.5	30.5	15.5	5.5	-57kPa
ACV-20LS		180 l/min	170	125	115	95	70	35.5	7.5	-57KFA
ACV-25LS		265 l/min	250	215	200	150	105	60	36	
ACV-30LS		385 l/min	350	295	267	215	150	85	41	

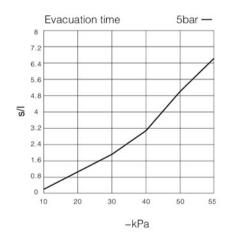
Evacuation time(s/l)to reach different vacuum levels(-kPa)

Model -kPa	Air supply pressure	Air consumption	10	20	30	40	50	55	Max.vacuum level
ACV-05LS		13 l/min	0.307	0.984	1.892	3.169	5.123	6.66	
ACV-10LS		44 I/min	0.107	0.277	0.507	0.830	1.323	1.414	
ACV-15LS	5 bar	100 l/min	0.044	0.102	0.153	0.261	0.415	0.553	57kDo
ACV-20LS		180 l/min	0.029	0.062	0.105	0.138	0.246	0.338	57kPa
ACV-25LS		265 l/min	0.021	0.046	0.076	0.123	0.184	0.3	1
ACV-30LS		385 l/min	0.017	0.035	0.058	0.086	0.132	0.219	

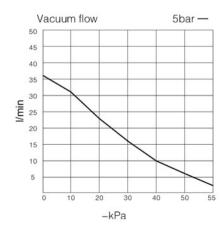
· ACV-05LS

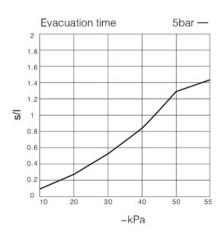
AIRBEST



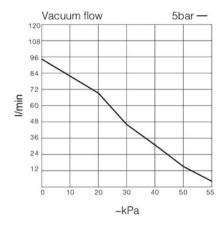


· ACV-10LS

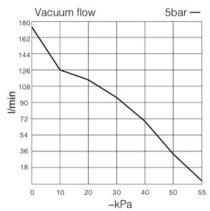




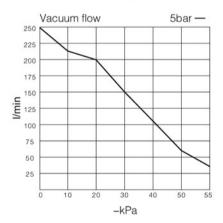
· ACV-15LS



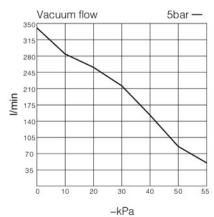
· ACV-20LS

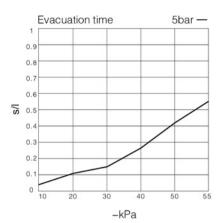


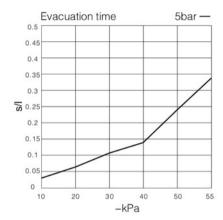
· ACV-25LS

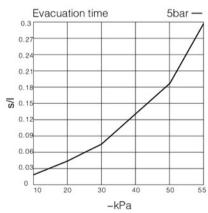


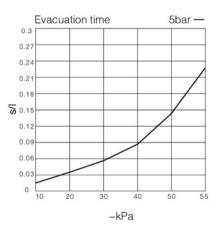
· ACV-30LS











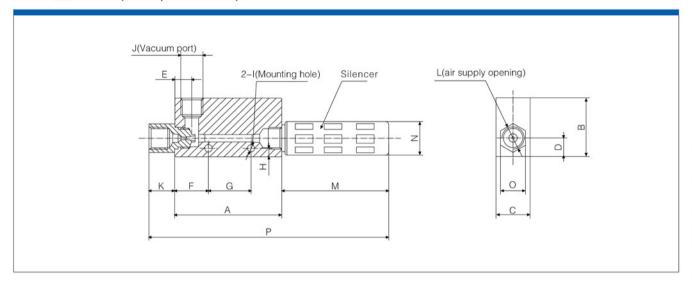
AZU

ASBP

AIRBEST

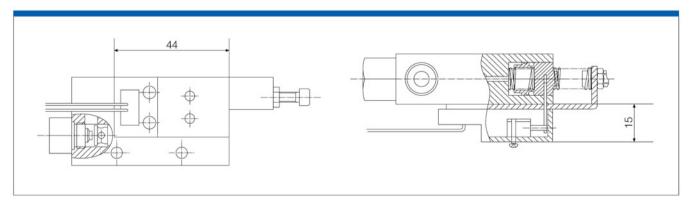
Dimensions (mm)

ACV-□□Standard (without pressure switch)



Model	Α	В	С	D	E	F	G	Н	1	J	K	L	M	N	0	Р	Silencer mounting screw
ACV-05	45	33	16	10	8	14	20	4.5	2-Φ4.5	Rp1/8	10	Rp1/8	30	Φ15	14	85	Rp1/8
ACV-10	45	33	16	10	8	14	20	4.5	2-Φ4.5	Rp1/8	10	Rp1/8	30	Ф15	14	85	Rp1/8
ACV-15	63	35	20	11	10	20	25	5	2-Φ4.5	Rp1/4	15	Rp1/4	51	Ф19	17	129	Rp1/4
ACV-20	85	40	30	15	13	28	32	7	2-Φ6	Rp3/8	20	Rp1/4	56	Ф28	24	161	Rp1/2
ACV-20CK	85	50	30	15	13	28	32	7	2-Ф6	Rp3/8	20	Rp1/4	56	Ф28	24	161	Rp1/2
ACV-25	100	60	40	20	16	20	50	5.5	2-Φ6	Rc1/2	17	Rc3/8	119	Φ40	27	236	Rp3/4
ACV-30	118	60	40	20	20	33	50	5.5	2-Φ6	Rc3/4	20	Rc1/2	119	Φ40	30	257	Rp3/4

· ACV-CK (with adjustable pressure switch)





Features

- ♦Small volume, easy to install
- ♦ Low air consumption, produce vacuum quickly
- ♦Several connection type with vacuum pad can be selective



Model

Model	Connection thread (Male thread)	Connection type with vacuum pad
AQV	M5 M8 G1/8 G1/4	A-Push into the vacuum pad directly B-Male thread connection C-Stardard

△AQV-M5-C

How to order

Connection type with	A-Push into the	B-Male threa	ad connection	C-Stardard		
Model vacuum pad	vacuum pad directly	Without mesh filter	Built-in mesh filter	Without mesh filter	Built-in mesh filter	
AQV-M5	108.2050.0000	108.2051.0000		108.2052.0000		
AQV-M8	108.2080.0000	108.2081.0000	108.2081.0000	108.2082.0000		
AQV-G1/8	108.1010.0000	108.1011.0000	108.1011.0000	108.1012.0000	108.1012.1000	
AQV-G1/4	108.1020.0000	108.1021.0000	108.1021.0000	108.1022.0000	108.1022.1000	

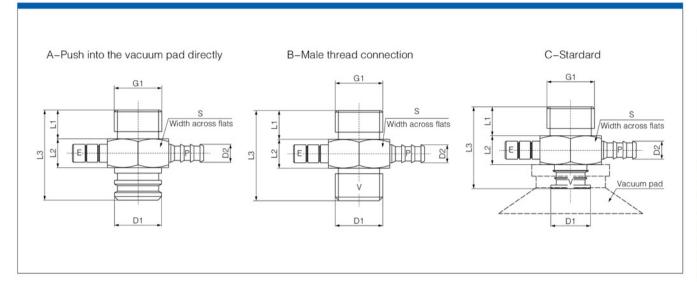
Technical parameters

Model	Max. vacuum flow I/min (6bar)	Max. vacuum level (-kPa)	Air supply pressure (bar)	Air consumption I/min (6bar)
AQV-M5	4	81		12
AQV-M8	1	83		11
AQV-G1/8	3.5	78	6	14.5
AQV-G1/4	11.5	82		27

ASBP



Dimensions



Dimension(mm) Model	L1	L2	L3	D1	D2	S	G1
AQV-M5-A	5	7	16	Φ6	Ф3.5	10	M5
AQV-M5-B	5	7	17	M5	Ф3.5	10	M5
AQV-M5-C	5	7	19.5	Ф5.3	Ф3.5	10	M5
AQV-M8-A	8	17.5	28	Ф2.5	Ф5	13	M8
AQV-M8-B	8	17.5	27.5	M8	Ф5	13	M8
AQV-M8-C	8	17.5	28	Ф3.1	Ф5	13	M8
AQV-G1/8-A	7	7	19.5	Φ7.3	Ф5	14	G1/8
AQV-G1/8-B	7	7	20	G1/8	Φ5	14	G1/8
AQV-G1/8-C	7	7	19.3	Φ8	Ф5	14	G1/8
AQV-G1/4-A	8	8	25	Ф13	Ф5	17	G1/4
AQV-G1/4-B	8	8	25	G1/4	Φ5	17	G1/4
AQV-G1/4-C	8	8	22.7	Ф11	Ф5	17	G1/4

△Remark: AQV-M5-C Match with the vacuum pad -- SU10、SU15、SF15、SB12、SB15;

AQV-M8-C Match with the vacuum pad -- SU4、SU6、SU8、SB5、SB8;

AQV-G1/8-C Match with the vacuum pad -- SU20、SU25、SU30、SF20、SF25、SF30、SB17、SB20、SBL20;

AQV-G1/4-C Match with the vacuum pad -- SU40、SF40、SB30、SB40、SBL30、SBL40;

Pls refer to our catalogue P102-117 about the vacuum pad model.









How to Order

1 Nozzle diameter(mm)

05	0.5
07	0.7
10	1.0
13	1.3
15	1.5
18	1.8
20	2.0

② Max.vacuum pressure

9	-88kPa
0	-ooki a

3 (Note)SUP. Port size

Symbol	Size	Style
06	Φ6	One-touch
08	Φ8	One-touch
10	Ф10	One-touch
12	Ф12	One-touch
01	Rc 1/8	Screw-in
02	Rc 1/4	Screw-in
03	Rc 3/8	Screw-in

4 (Note)VAC. Port size

Symbol	Size	Style
06	Φ6	One-touch
10	Ф 10	One-touch
12	Ф 12	One-touch
16	Ф 16	One-touch
01	Rc 1/8	Screw-in
02	Rc 1/4	Screw-in
03	Rc 3/8	Screw-in
04	Rc 1/2	Screw-in

5 (Note)EXH. Port size

Size	Style
Φ6	One-touch
Φ8	One-touch
Ф 10	One-touch
Ф 12	One-touch
Ф 16	One-touch
Rc 1/8	Screw-in
Rc 1/4	Screw-in
Rc 3/8	Screw-in
Rc 1/2	Screw-in
	Φ6 Φ8 Φ10 Φ12 Φ16 Rc 1/8 Rc 1/4

Specifications

Model	Nozzle diameter	Body style	Max.vacuum yle pressure(kpa		Max.vacuum flow I/min		Air consumption I/min	Connection (One-touch/Screw-in)		
	Фтт		S style	L style	S style	L style	S style/L style	SUP	VAC	EXH
AZH05B□	0.5				5	9	13.5			
AZH07B□	0.7	Box style	-88	-48	12 22 23.5 Φ6/Rc 1/8	Φ6/Rc 1/8	Φ6/Rc 1/8			
AZH10B□	1.0	(Built-in silencer)	-00	-46	24	34	46			,
AZH13B□	1.3				40	75	78	Φ8/Rc 1/8	Φ 10/Rc 1/4	
AZH05D□	0.5		00	-48	7.5	9	13.5	Φ6/Rc 1/8	Φ6/Rc 1/8	Φ6/Rc 1/8
AZH07D□	0.7	Body ported style			12	22	23.5			
AZH10D□	1.0	(without silencer)	-88		24	34	46	Φ6/Rc 1/8	Φ6/Rc 1/8	Φ8/Rc 1/8
AZH13D□	1.3				40	75	78	Φ8/Rc 1/8	Φ 10/Rc 1/4	Φ10/Rc 1/4
AZH15D□	1.5	Body ported style			60	80	97	Φ 10/Rc 1/4	Φ 12/Rc 3/8	Φ 12/Rc 3/8
AZH18D□	1.8	, , , , ,	-88	-53	70	110	150	Φ 12/Rc 3/8	Ψ 12/HC 3/8	Ψ 12/HC 3/8
AZH20D□	2.0	(without silencer)			85	140	185	Φ 12/Rc 3/8	Φ 16/Rc 1/2	Φ 16/Rc 1/2

*Supply pressure:4.5bar

A	В	M	

ABX

ASM

ASX

AM

AL

ΑН

AM Combined type

AL Combined type

AH Combined type

AZL112

AZL212

ACP

ACPF

ACPS

ACV

AQV

AZU

ASBP

Table 1 Combination	on of c	onnection	W	
Body		SUP	VAC	EXH
Pov style	1	One-touch	One-touch	2
Box style	2	One-touch	Screw-in	
(Buit-in silencer)	3	Screw-in	Screw-in	3,3
Rody ported style	1	One-touch	One-touch	One-touch

One-touch

Screw-in

Screw-in

Screw-in

One-touch

Screw-in

2

(3)

Table ② port size											
Model	SUP	VAC	EXH								
AZH05B											
AZH07B	Φ6/Rc 1/8	Φ6/Rc 1/8									
AZH10B											
AZH13B	Φ8/Rc 1/8	Φ 10/Rc 1/4									
AZH05D	Φ6/Rc 1/8	Φ6/Rc 1/8	Φ6/Rc 1/8								
AZH07D	Ψ6/ης 1/6	Φ6/ης 1/6	Ψ0/ης 1/6								
AZH10D	Φ6/Rc 1/8	Φ6/Rc 1/8	Φ8/Rc 1/8								
AZH13D	Φ8/Rc 1/8	Φ 10/Rc 1/4	Φ 10/Rc 1/4								
AZH15D	Φ 10/Rc 1/4	Φ 12/Rc 3/8	Φ 12/Rc 3/8								
AZH18D	Φ 12/Rc 3/8	Ψ 12/nc 3/6	Ψ 12/NC 3/6								
AZH20D	Φ 12/Rc 3/8	Φ 16/Rc 1/2	Φ 16/Rc 1/2								

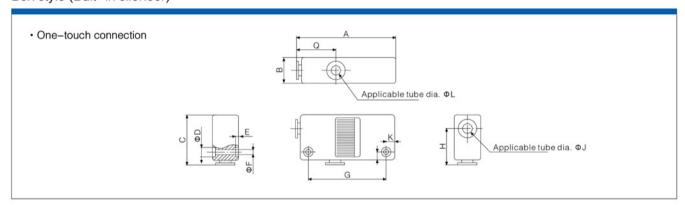
Dimensions (mm)

Body ported style

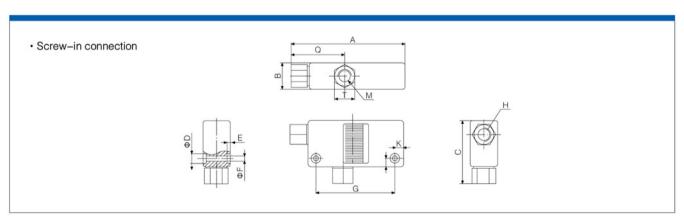
(without silencer)

AIRBEST

Box style (Buit-in silencer)



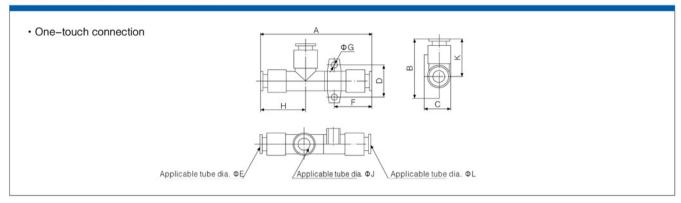
								157				
Model	А	В	С	D	E	F	G	Н	Q	L	K	J
AZH05B-06-06	60	16	31	5.8	2	3.2	47	22	24	6	5	6
AZH07B-06-06	60	16	31	5.8	2	3.2	47	22	24	6	5	6
AZH10B-06-06	63	18	32	5.8	2	3.2	50	23	26	6	5	6
AZH13B-08-10	78	23	38.5	7.5	3	4.2	61	27.5	28	10	7	8



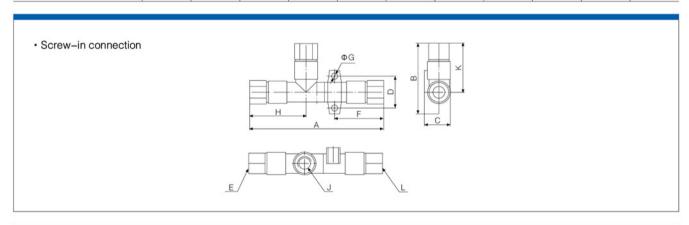
Model	А	В	С	D	E	F	G	Н	Q	М	K	Т
AZH05B-01-01	68	16	39	5.8	2	3.2	47	Rc1/8	31.5	Rc1/8	5	12
AZH07B-01-01	68	16	39	5.8	2	3.2	47	Rc1/8	31.5	Rc1/8	5	12
AZH10B-01-01	71	18	40	5.8	2	3.2	50	Rc1/8	33.5	Rc1/8	5	12
AZH13B-01-02	86.5	23	50	7.5	3	4.2	61	Rc1/8	36.5	Rc1/4	7	14



Body ported style (without silencer)



Model	А	В	С	D	Е	F	G	Н	L	К	J
AZH05D-06-06-06	58.5	34	14.2	17	6	21	3.2	24	6	22	6
AZH07D-06-06-06	61	34	14.2	17	6	22	3.2	24	6	22	6
AZH10D ^S _L -06-06-08	66 70	37	17.2	20	6	24.5	4.2	26	8	23	6
AZH13D ^S _L -08-10-10	74 79.5	42.5	20	22	8	27	4.2	28	10	27.5	10
AZH15D-10-12-12	93.3	47	22.5	27	10	32.8	4.2	31.5	12	29.5	12
AZH18D-12-12-12	114	41	21	10	12	50	3.5	35.5	12	30.5	12
AZH20D-12-16-16	124.6	46	27	12	12	54.3	3.5	38.5	16	32.7	16



Model	А	В	С	D	Е	F	G	Н	L	K	J
AZH05D-01-01-01	73.5	41.5	14.2	17	Rc1/8	28.5	3.2	31.5	Rc1/8	22	Rc1/8
AZH07D-01-01-01	76	41.5	14.2	17	Rc1/8	29.5	3.2	31.5	Rc1/8	22	Rc1/8
AZH10D ^S _L -01-01-01	82 86	44.5	17.2	20	Rc1/8	33	4.2	33.5	Rc1/8	23	Rc1/8
AZH13D ^S _L -01-02-02	94.5 99.5	54	20	22	Rc1/8	38.5	4.2	36.5	Rc1/4	27.5	Rc1/4
AZH15D-02-03-03	116.5	58.5	22.5	27	Rc1/4	44.5	4.2	43	Rc3/8	29.5	Rc3/8
AZH18D-03-03-03	133	52.5	21	10	Rc3/8	57.5	3.5	47	Rc3/8	30.5	Rc3/8
AZH20D-03-04-04	151	61	27	12	Rc3/8	69.3	3.5	50	Rc1/2	32.7	Rc1/2

ABX

Vacuum flow(I/min)at different vacuum levels(-kPa)

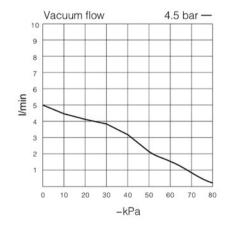
							_				_	
Model -kPa	Air supply pressure	Air consumption	0	10	20	30	40	50	60	70	80	Max.vacuum level
AZH05S		13.5 l/min	5	4.5	4.1	3.8	3.3	2.3	1.6	0.9	0.3	
AZH07S		23.5 l/min	12	11	10	9	8	7	5.5	2.1	0.8	
AZH10S		46 I/min	24	23	20.5	17.5	13	11.5	9.5	7	2.5	
AZH13S	4.5 bar	78 I/min	40	35	32.5	28	23	19.5	13	9	4.5	-88kPa
AZH15S		97 I/min	60	52.5	45.5	38	28.5	20.5	15.5	11.5	5	
AZH18S		150 l/min	70	62	52	45	38	26	22	16.5	8.5	
AZH20S		185 l/min	85	76	67	58	47.5	38	33.5	19	12	

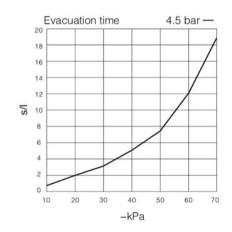
Evacuation time(s/l)to reach different vacuum levels(-kPa)

		N. S.					er en en en en			
Model -kPa	Air supply pressure	Air consumption	10	20	30	40	50	60	70	Max.vacuum level
AZH05S		13.5 l/min	0.89	1.7	3.2	5	7.8	12	19	
AZH07S		23.5 l/min	0.37	1	1.9	3	5.4	6.7	15	
AZH10S		46 I/min	0.25	0.6	1.25	2	2.9	4.6	7.3	
AZH13S	4.5 bar	78 I/min	0.1	0.27	0.53	1	1.75	4.2	7.3	-88kPa
AZH15S		97 I/min	0.04	0.21	0.35	0.63	1.23	4.1	6.5	
AZH18S		150 l/min	0.02	0.15	0.29	0.46	0.78	1.38	3.51	
AZH20S		185 l/min	0.02	0.12	0.21	0.34	0.55	0.85	1.58	

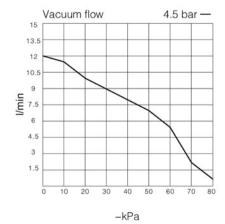
· AZH05S

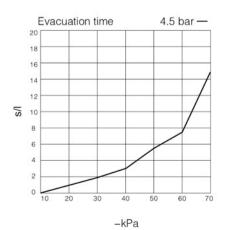
AIRBEST





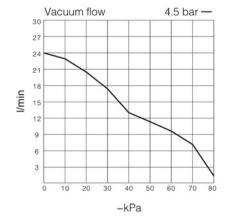
· AZH07S



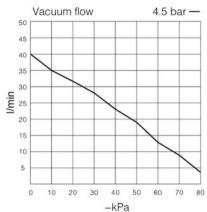


AIRBEST

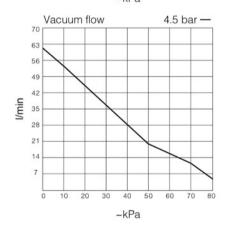
· AZH10S



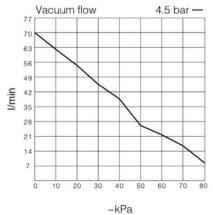
· AZH13S

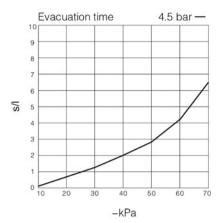


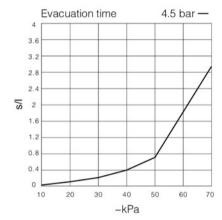
· AZH15S

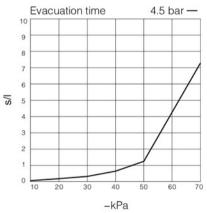


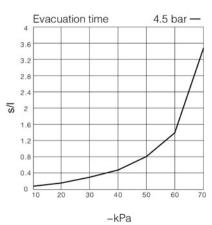
· AZH18S











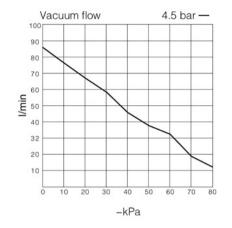
ABM

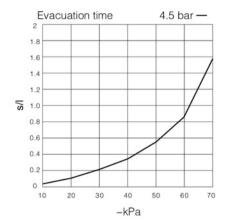
AZU

ASBP



· AZH20S





Vacuum flow(I/min)at different vacuum levels(-kPa)

Model -kPa	Air supply pressure	Air consumption	0	10	20	30	40	45	Max.vacuum level
AZH05L		13.5 l/min	9	8	7	6	3	1.9	
AZH07L	4.5 bar	23.5 l/min	22	21	20.5	15.5	10.5	6.8	
AZH10L	4.5 Dar	46 I/min	34	32	26	19	12	8	-40KFa
AZH13L		78 I/min	75	72	65	43	19	9	

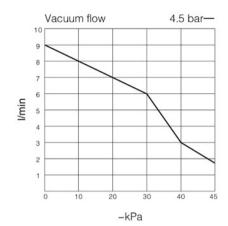
Section 6									200
Model -kPa	Air supply pressure	Air consumption	0	10	20	30	40	50	Max.vacuum level
AZH15L		97 I/min	80	72	60	45	36.5	16	
AZH18L	4.5 bar	150 l/min	110	105	95	80	55	30	-53kPa
AZH20L		185 l/min	140	130	120	100	80	62	

Evacuation time(s/l)to reach different vacuum levels(-kPa)

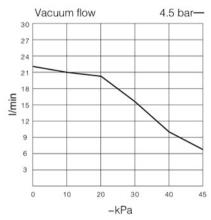
Model -kPa	Air supply pressure	Air consumption	10	20	30	40	45	Max.vacuum level
AZH05L		13.5 l/min	0.49	1.5	2.9	5.1	7.2	
AZH07L	4.5 bar -	23.5 l/min	0.28	0.75	1.5	2.5	3.5	40kDa
AZH10L		46 I/min	0.14	0.4	0.81	1.4	1.8	-48kPa
AZH13L		78 I/min	0.04	0.12	0.24	0.62	2.4	

Model -kPa	Air supply pressure	Air consumption	10	20	30	40	50	Max.vacuum level
AZH15L		97 I/min	0.03	0.15	0.23	0.4	0.92	
AZH18L	4.5 bar	150 l/min	0.02	0.10	0.18	0.32	0.67	-53kPa
AZH20L		185 l/min	0.01	0.08	0.14	0.2	0.3	

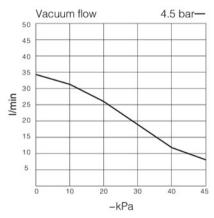
· AZH05L



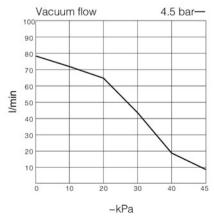
· AZH07L

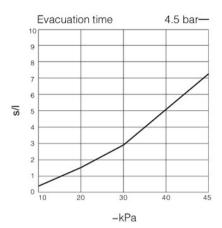


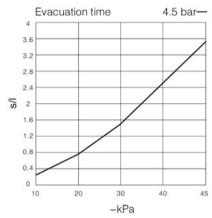
· AZH10L

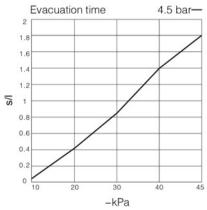


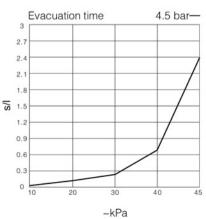
· AZH13L







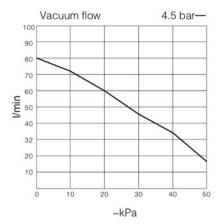




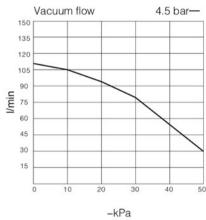
ASBP

AIRBEST

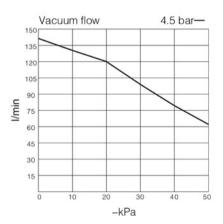
· AZH15L

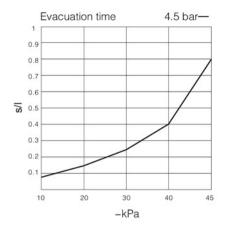


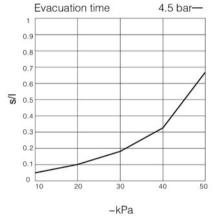
· AZH18L

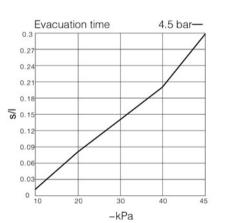


· AZH20L











Features

Vacuum port and supply port are located collinearly to facilitate piping built-in one-touch fittings, suitable for copper-free and fluorine-free applications. Light weight, use resin as material



Specifications

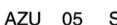
Model	Style	Nozzle dia. Φmm	Max.vacuum pressure(kpa)	Max.vacuum flow l/min	Air consumption I/min	weight (g)
AZU05S	Lligh vo ovum	0.5	-85	7	10	6.5
AZU07S	High vacuum	0.7	-85	12	19	7.0
AZU05L	Lorgo flow consity	0.5	-48	12	10	6.5
AZU07L	Large flow capcity	0.7	-48	21	19	7.0

Technical Parameters

2

Fluid	Air				
Max.operating pressure	7bar				
Standard supply pressure	4.5bar				
Operating temperature range	5~60°C				
Applicable tube O.D.	SUP port: Φ6 VAC port: Φ6				

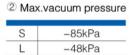
How to Order



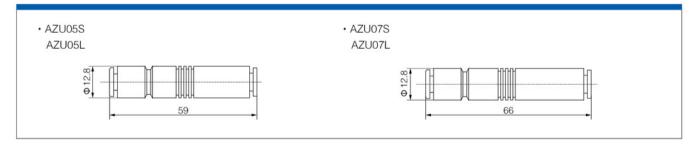
1

1 Nozzle diameter

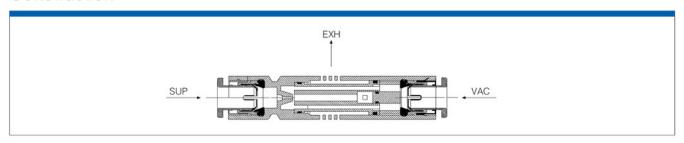
05 Φ0.5mm 07 Φ0.7mm



Dimensions (mm)



Construction



ABM

AIRBEST

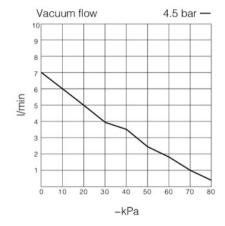
Vacuum flow(I/min)at different vacuum levels(-kPa)

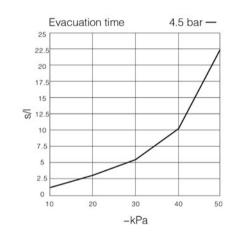
Model -kPa	Air supply pressure	Air consumption	0	10	20	30	40	50	60	70	80	Max.vacuum level
AZU05S	4.5 bar	9 l/min	7	6	5	4	3.5	2.5	1.8	1	0.4	95kDo
AZU07S		19 I/min	12	9.5	8.5	7.2	6	5.5	4	2	0.4	-85kPa

Evacuation time(s/l)to reach different vacuum levels(-kPa)

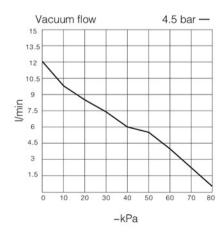
Model -kPa	Air supply pressure	Air consumption	10	20	30	40	50	60	Max.vacuum level
AZU05S	4.5 bar	9 l/min	0.9	2.6	5.2	10	22.5	-	-85kPa
AZU07S		19 l/min	0.53	1.4	2.7	5	8.7	18	-ookPa

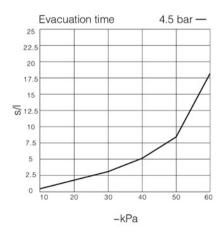
· AZU05S





· AZU07S







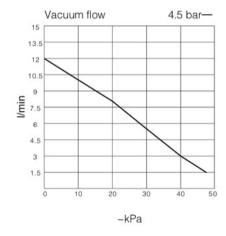
Vacuum flow(I/min)at different vacuum levels(-kPa)

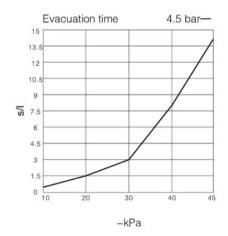
Model –kPa	Air supply pressure	Air consumption	0	10	20	30	40	48	Max.vacuum level
AZU05L	4.5 bar	9 l/min	12	10	8	5.5	3	1	49kDo
AZU07L		19 l/min	21	18.5	15.5	11.5	8	1.5	-48kPa

Evacuation time(s/l)to reach different vacuum levels(-kPa)

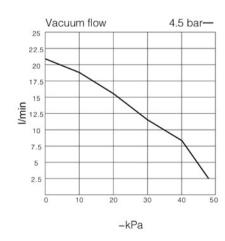
Model -kPa	Air supply pressure	Air consumption	10	20	30	40	45	Max.vacuum level
AZU05L	4.5 bar	9 l/min	0.6	1.5	2.9	8	14	-48kPa
AZU07L	4.5 Dai	19 I/min	0.34	0.9	2	7.5	13	-40KFA

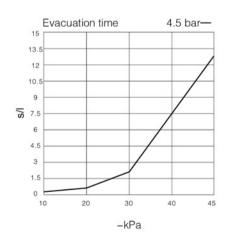
· AZU05L





· AZU07L





ABM





Features

- A Plastic housing optimized for minimum weight and size
- ☆ Connections with thread holes

AIRBEST

☆ Open type silencer

Applications

- ☆ Use in feeder systems
- ☆ Handling of electronic components
- ☆ Use in separation systems for plastic and sheet-metal
- ☆ Construction of ejector blocks for decentralized individual control of suction pads

Advantages

- ☆ Ideal for decentralized vacuum generation in highly dynamic processes
- ☆ Various power ratings for minimum air consumption
- ☆ Space-saving and easy to install
- ☆ Low noise levels and minimum maintenance requirements

Construction

- ☆ One-piece housing made of light, impact-resistant plastic
- ☆ Connection of compressed air and vacuum with threaded holes
- ☆ Pleasing industrial design
- ☆ Can be fixed horizontal with mounting holes or vertical with the base on a mounting plate
- ☆ Optional mounting with mounting plate and mounting kit on DIN top-hat rails

Specifications

Model	Nozzle diameter (mm)	Vacuum level (-kPa)	Max. vacuum flow [l/min]	Air consumpt. during evac. [l/min]*	Noise level workp. gripped [db(A)]
ASBP 10 SDA	1.0	-85	38	50	59
ASBP 15 SDA	1.5	-85	72	110	65

*For max. length 2m

16				2	#	
Model	Noise level free [db(A)]	Operating pressure [bar]	Recomm. int. tube diameter compr. air [mm]*	Recomm. int. tube diameter vacuum [mm]*	Weight [g]*	Operating temperature [°C
ASBP 10 SDA	65	4.5	4	6	22.0	0-60
ASBP 15 SDA	72	4.5	4	6	22.0	0-60

*For max. length 2m

How to Order

ASBP 15 G2 SDA

1 2

2

10	Ф1.0
15	Φ1.5

1) Nozzle size

Thread hole G2(see the table)

(3)

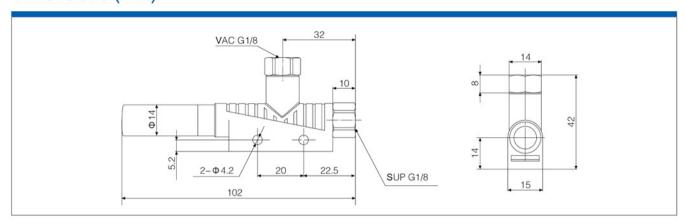
Blank	Nil
SDA	With axial silencer

· Connection Thread

Madal	Connection:quick-action pu	Connection:quick-action push-in coupling/Thread hole							
Model	SUP	VAC							
ASBP 10 G2	C 1/9	C 1/0							
ASBP 15 G2	G 1/8	G 1/8							



Dimensions (mm)



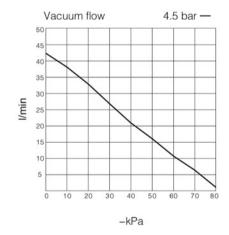
Vacuum flow(I/min)at different vacuum levels(-kPa)

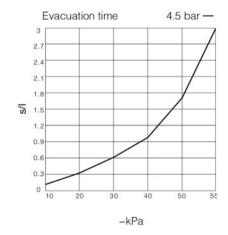
Model -kPa	Air supply pressure	Air consumption	0	10	20	30	40	50	60	70	80	Max.vacuum level
ASBP10	4 E bor	50 I/min	38	30	26	23	18.6	16	11	7	1.8	-85kPa
ASBP15	4.5 bar	110 l/min	72	60	52	44	36	30	24	15.5	2.2	-ookra

Evacuation time(s/l)to reach different vacuum levels(-kPa)

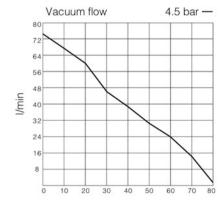
Model -kPa	Air supply pressure	Air consumption	10	20	30	40	50	60	70	Max.vacuum level
ASBP10	4.5 bar	50 I/min	0.123	0.323	0.6	1	1.72	3	-	-85kPa
ASBP15		110 l/min	0.06	0.18	0.32	0.52	0.81	1.32	2.7	-05KFa

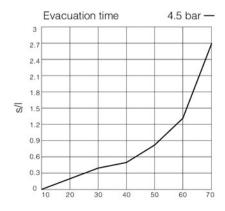
· ASBP10





· ASBP15







Vacuum Filters (B)

Vacuum Filters	AZFC Series	89-89
	ABF Series	90-91
	ALF Series	92-92
	RF Series	03_03



Specifications

Model	AZFC100-04B	AZFC100-06B	AZFC200-06B	AZFC200-08E
Applicable tube O.D.	Φ4	Φ6	Φ6	Φ8
Flow I/min	10	20	30	50
Fluid		Air、N	itrogen	
Operating pressure	-100~0kPa			
Filtration degree	10 µ m			
Operating and ambient temperature range	0~60°C(with no freezing)			
Element differential pressure resistance	1.5bar			
Applicable tubing material	Nylon, Soft nylon, polyurethane, Soft polyurethane			
Filter element(spare parts)	FC-100 FC-200			-200



Features

- ☆ Compact and low weight design
- ☆ One-touch quick fitting and convenient assembly
- ☆ Filter element is replaceable
- Adopt easy assembled and disassemble structure filter element can be replaced without tools
- Straight through type,inlet and outlet are in the same line, it is easy to assemble
- ☆ Standard type is with bracket

How to Order

AZFC 100 - 04 B

1) Recommend flow rate

	and the second second
100	Max.20l/min
200	Max.50l/min

2 IN OUT Applicable tube O.D

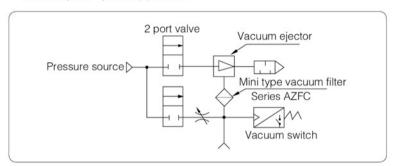
Symbol	Tube O.D	Applicable mode
04	Φ04	AZFC100
06	Ф06	AZFC100
		AZFC200
08	Φ08	AZFC200

3 With bracket

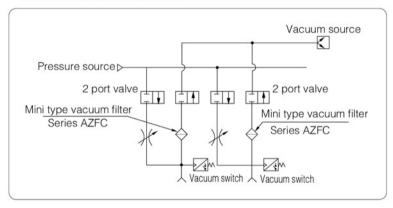


Application Example

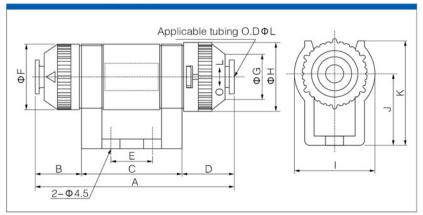
· Vacuum ejector system application



· Vacuum pump system application



Dimensions (mm)



Model	AZFC- 100-04B	AZFC- 100-06B	AZFC- 200-06B	AZFC- 200-08E
Α	53.2	53.2	67	67
В	9.1	9.1	15.5	15.5
С	30	30	34	34
D	14.1	14.1	17.5	17.5
E	10	10	14	14
F	18	18	22	22
G	11.6	11.6	15.6	15.6
Н	19.5	19.5	23.1	23.1
1	23	23	27	27
J	20	20	24	24
K	29	29	35	35
L	4	6	6	8











Features

- ☆To filter dust and other small particles from the vacuum flow.
- ☆ Reduces the risk of operation breakdown or stoppage in the pump.
- ☆Replaceable filter element.
- ☆ Available with special filter element with increased filter area.

Specifications

		ABF-10	ABF-15	ABF-20	ABF-25	ABF-40		
Pressure range	bar		−1~0bar					
Material			PA, PC, PE					
Temperature range	℃		-20~80					
Removal efficiency	μm	10						
Weight	g	70	168	170	424	550		
Flow nominal	I/m	150	900	900	2520	5100		
Volume internal	cm ³	45 195 205 495 675						
Filter area	m ²	0.003	0.010	0.010	0.019	0.023		

How to Order

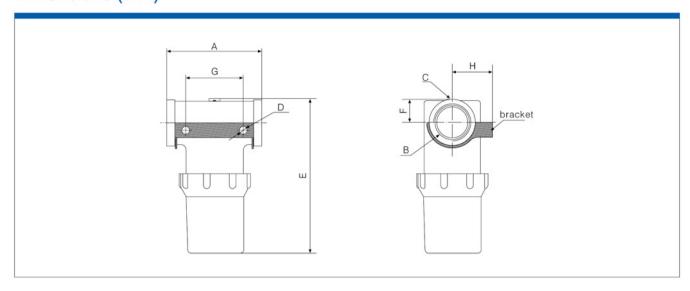
ABF - 10

1

① Model	
ABF-10	G3/8"
ABF-15	G1/2"
ABF-20	G3/4"
ABF-25	G1"
ABF-40	G1 1/2"



Dimensions (mm)



200200000000000000000000000000000000000					
Model	ABF10	ABF15	ABF20	ABF25	ABF40
Α	76	91	91	126	126
В	2-G3/8"	2-G1/2"	2-G3/4"	2-G1"	2-G1 1/2"
С	NPSF1/8	NPSF1/8	NPSF1/8	NPSF1/8	NPSF1/8
D	2-Φ6.5	2-Φ8.5	2-Φ8.5	2-Φ10.5	2-Φ10.5
E	71.3	131.5	138.5	167	209.5
F	14	16	18.5	23	31
G	45	50	50	80	80
Н	27	40	40	56	56

How to Order

F - 10

1

① Model	
F10	G3/8"
F20	1/2" & 3/4"
F25	1'
F40	1 1/2"

Remarks:Fiter element 1/2" & 3/4"(special)、 1 1/2"(special)are optional. Their removal efficiency is 5

Technical data of filter element

		F-10	F-20	F-25	F-40
Weight	g	7	26	50	74
Filter area	m ²	0.003	0.010	0.019	0.023
Removal efficiency	μm	10	10	10	10

AZFC

Features

AIRBEST

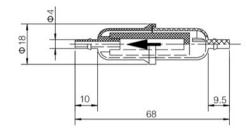
- ☆These filters provide a cost effective in line vacuum filteration method.
- ☆The 6mm diameter is suitable for all kinds of system especially linear pump and combined vacuum pump.
- ☆The 3/8"Version can be screwed directly into the Mini type vacuum pump as well as any other port using a 3/8"-BSP connection. when used with the mini pumps & mid multiple pumps it provides a very compact set up.



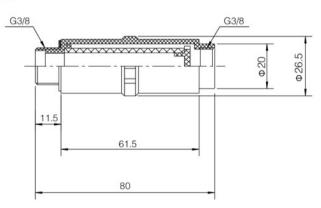
Technical Parameters

Model	Port Size	Internal volume cm ³	Removal efficiency	Material	Working temperature	Weight g
ALF-06-IN	Φ4	4	20	PP, PE	0°C~80°C	3.5
ALF-10-IN	G3/8	20	20	PP, PE	0°C~80°C	13

▼ ALF-06-IN



▼ ALF-10-IN







Features

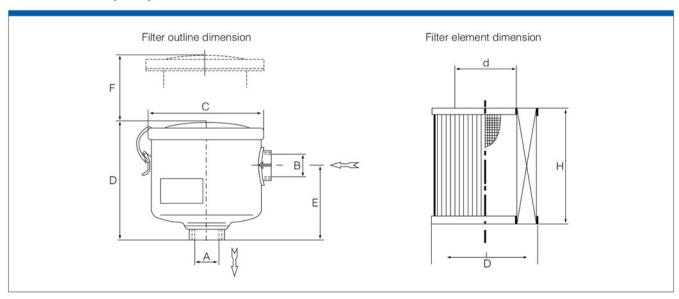
Be widely used in vacuum systems. Effciently protect the pump from the product entering it. Also protect the system components(valves, gauges)

Consist of a steel housing and a lid with quick locking clips. Rugged all steel construction for heavy duty applications. Quickly exchangeable cartridge. Large dirt holding capacity and easy cleaning. High separation efficiency: 99% removal for 5 micron, Brazed fittings for high vacuum duty(F002–F006) Low pressure drop

Technical Parameters

Model	BF002	BF002-1	BF004	BF003	BF006	
Rated flow rate m ³ /h	32	42	100	120	300	
*A(Inch)	G1/2"	G3/4"	G1 1/4"	G1 1/4"	G2"	
*B(Inch)	G1/2"	G3/4"	G1 1/4"	G1 1/4"	G2"	
С	Φ101	Ф 101	Ф 146	Φ 185	Ф222	
D	90	90	110	170	258	
E	53	53	70	115	125	
F	70	70	75	130	240	
Weight	1		1.4	2.3	6.9	
Dimension A.B is pipe thread, G.Ar	merica is NP, Britain is	BSP				
Filtration consumables	FE002	FE002	FE004	FE003	FE006	
O.D	Φ65		Φ98	Φ 128	Ф 150	
I.D	Ф38		Φ60	Φ64	Φ88	
Height	69	69	70	125	222	

Dimensions (mm)





Vacuum Pads



Large-area Vacuum Gripping System

Vacuum Pads

TXC Series	95–96
TXM Series	97–98
SNP Series	99–99
SOP Series	100-101
SB Series	102-104
SBF Series	105-106
SBL Series	107-108
SBLP Series	109-109
SF Series	110-114
SU Series	115-117
STC Series	118-120
SFF Series	121-123
SOB Series	124-125
SOF Series	126-127
SOG Series	128-129
SFP Series	130-130
SBP Series	131-133
SXP Series	134-136
SGP Series	137-138
SD Series	139-139
SH Series	140-146
SHB Series	147-153
AZP Series	154-155
AZPT Series	156-158
AZPR Series	159-160
SPAG Series	161-165
SPCG Series	166-167
SPFG Series	168-179
SPJG Series	180-186
SPJG(No-mark) Series	187-187
SPS Series	188-189
SPUG Series	190-198
SNT Series	199-200
K Series	201-207
Fittings for Vacuum Pads	208-211
BH Series	212-212
Bulkhead Connector	213-213

214-214

Spring Plunger
Fittings for Vacuum Pads
Universal Holder
Bulkhead Connector
Ball Joint

K Series
Fittings fo
BH Series
Bulkhead
Ball Joint





Vacuum pad type

Sealing gasket (Sponge) type

Features

- ☆ Easy to change the worn sealer or vacuum pad quickly, cheap cost
- Adopt aluminum alloy material, strong structure and light weight
- ☆Inside vacuum pump, compact structure
- ☆ Intelligent vacuum ejector is energy saving and short cycle time
- ☆Only one vacuum gripper can automatically stack, destack and pick different sizes of work piece transport work piece with different materials, for example: paper, wood and dry metal plate or plastic plate with holes or without holes
- ☆ Module design can combine several vacuum gripper systems together to form a complete system, in order to satisfy different handling needs
- ☆ Vacuum break function

Specifications

Model	Dimensions (mm)	Adsorbing type	
	120×60		
	120 × 300		
	120 × 400	A Sooling gooket (Sponge) type	
TXC	120×600	A-Sealing gasket (Sponge) type	
	120 × 800	B-Vacuum pad type	
	120×1000		
	120 × 1200		

[△]TXC120X300-A

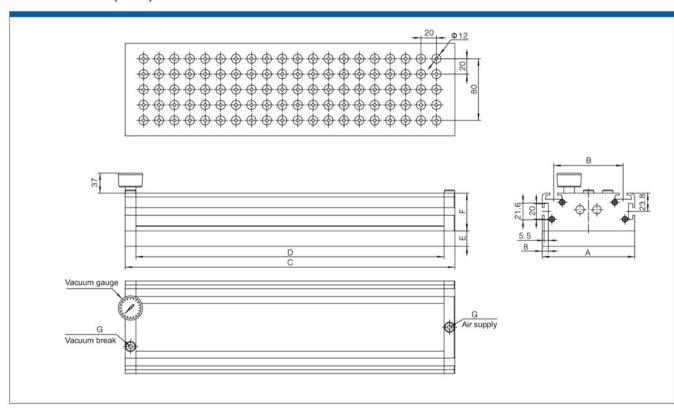
How to Order

Ordering code Model	A (Sealing gasket)	B (Vacuum pad)
TXC120 × 60	217.0061.0000	217.0062.0000
TXC120 × 300	217.0301.0000	217.0302.0000
TXC120 × 400	217.0401.0000	217.0402.0000
TXC120 × 600	217.0601.0000	217.0602.0000
TXC120 × 800	217.0801.0000	217.0802.0000
TXC120 × 1000	217.1001.0000	217.1002.0000
TXC120 × 1200	217.1201.0000	217.1202.0000

Technical parameters

Model	Air supply pressrue (Bar)	Max. vacuum level (-kPa)	Max. vacuum flow (I/min)	Air consumption (I/min)	Suction force (N) (-60kPa)	Suction plate thickness (mm)
TXC120 × 60	4~6	80	120	55	81	10
TXC120 × 300	4~6	80	580	215	555	20
TXC120 × 400	4~6	80	580	215	750	20
TXC120 × 600	4~6	80	580	215	1100	20
TXC120 × 800	4~6	80	800	320	1486	20
TXC120 × 1000	4~6	80	940	390	1949	20
TXC120 × 1200	4~6	80	940	390	2260	20

Dimensions (mm)



Dimensions (mm)	А	В	С	D	E	F	G
TXC120 × 60	120	-	60	-	10	32.5	G1/8
TXC120 × 300	120	90	328	300	20	50	G1/8
TXC120 × 400	120	90	428	400	20	50	G1/8
TXC120 × 600	120	90	628	600	20	50	G1/8
TXC120 × 800	120	90	828	800	20	50	G1/8
TXC120 × 1000	120	90	1028	1000	20	50	G1/8
TXC120 × 1200	120	90	1228	1200	20	50	G1/8

TXC TXM SNP

SOP SB SBF

> SBL SBLP

SF SU

STC

SFF

SOB

SOF

SFP

SBP

SGP

SD SH

SHB

AZP AZPT

AZPR

SPAG

SPCG SPFG

SPJG

SPJG (No-mark)

SPS SPUG

SNT

Fittings for Vacuum Pads

Bulkhead Connector

Ball Joint





Vacuum pad type

Sealing gasket (Sponge) type

Features

- ☆Easy to change the worn sealer or vacuum pad quickly, cheap cost
- ☆ Adopt aluminum alloy material, strong structure and light weight
- ☆ Inside vacuum pump, compact structure
- ☆ Intelligent vacuum ejector is energy saving and short cycle time
- $\stackrel{\leftrightarrow}{\sim}$ Only one vacuum gripper can automatically stack, destack and pick different sizes of work piece transport work piece with different materials, for example: paper, wood and dry metal plate or plastic plate with holes or without holes
- ☆ Vacuum break function

Specifications

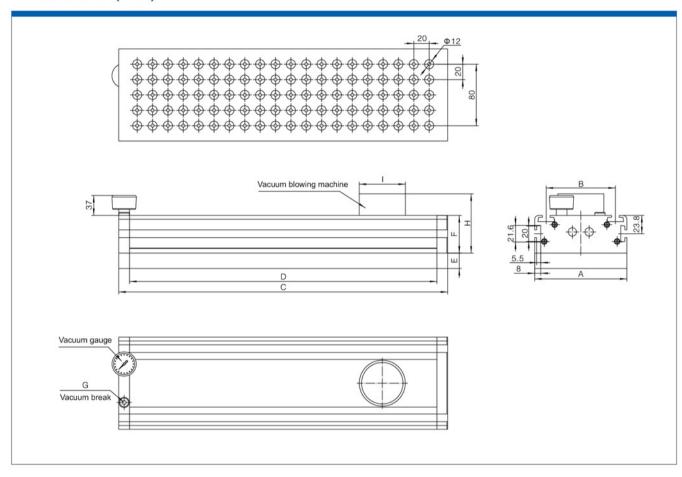
Model	Dimensions (mm)	Adsorbing type
	120×300	
	120 × 400	
TXM	120 × 600	A-Sealing gasket (Sponge) type
IXIVI	120 × 800	B-Vacuum pad type
	120 × 1000	
	120 × 1200	

△TXM120X300-A

How to Order

Ordering code Model	A (Sealing gasket)	B (Vacuum pad)
TXM120 × 300	218.0301.0000	218.0302.0000
TXM120 × 400	218.0401.0000	218.0402.0000
TXM120 × 600	218.0601.0000	218.0602.0000
TXM120 × 800	218.0801.0000	218.0802.0000
TXM120 × 1000	218.1001.0000	218.1002.0000
TXM120 × 1200	218.1201.0000	218.1202.0000

Dimensions (mm)



Dimensions (mm) Model	А	В	С	D	Е	F	G	Н	I
TXM120 × 300	120	90	328	300	20	50	G1/8	70.5	Ф32
TXM120 × 400	120	90	428	400	20	50	G1/8	70.5	Ф32
TXM120 × 600	120	90	628	600	20	50	G1/8	70.5	Ф32
TXM120 × 800	120	90	828	800	20	50	G1/8	70.5	Φ60
TXM120 × 1000	120	90	1028	1000	20	50	G1/8	70.5	Φ60
TXM120 × 1200	120	90	1228	1200	20	50	G1/8	70.5	Φ60

TXC

SNP

SOP

SB

SBF

SBL

SBLP

SU

STC

SFF

SOB

SOG

SFP

SXP

SGP

SD SH

SHB

AZPT

AZPR

SPAG

SPCG

SPFG

SPJG

SPJG (No-mark)

SPS

SPUG

SNT

Spring Plunge

Fittings for Vacuum Pads

ВН

-

Ball Joint



Features

- ☆ Suitable for very rough and uneven surfaces (marble, uneven plates, textured or non-slip metal sheets, tiles, cement board, etc.) and in all other applications in which traditional pads can't be used.
- ☆The working temperature is -20°C~+80°C.



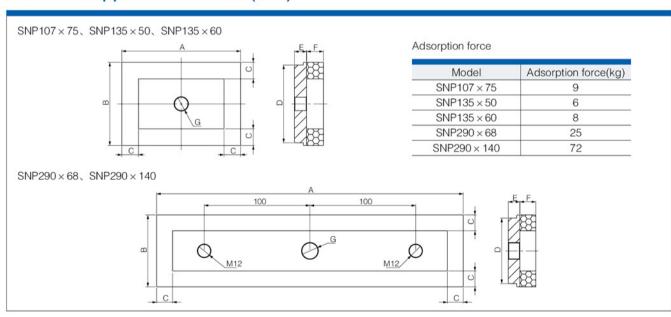
Model

Model	Dimensions	Material and color
	107 × 75	
	135 × 50	Material: OF Caranium form rubbar(Oranga)
SNP	135 × 60	Material: OF=Geranium foam rubber(Orange)
	290 × 68	NF=Neoprene foam rubber(Black)
	290 × 140	

How to Order

	p.	
Model	Ordering code(Orange)	Ordering code(Black)
SNP107 × 75	225.7500.0000	225.7501.0000
SNP135 × 50	225.5000.0000	225.5001.0000
SNP135 × 60	225.6000.0000	225.6001.0000
SNP290 × 68	225.6800.0000	225.6801.0000
SNP290×140	225.1400.0000	225.1401.0000

Pad with support dimensions (mm)



Dimensions	А	В	С	D	E	F	G
SNP107 × 75	107	75	15	70	11	15	M12
SNP135 × 50	135	50	15	45	11	15	M12
SNP135 × 60	135	60	15	55	11	15	M12
SNP290 × 68	290	68	15	62	11	15	G3/8
SNP290 × 140	290	140	15	134	11	15	G1/2

Features

- ☆ Suitable for very rough and uneven surfaces (marble, uneven plates, textured or non-slip metal sheets, tiles, cement board, etc.) and in all other applications in which traditional pads can't be used.
- ☆The working temperature is -20°C~+80°C.



Model

Model	Diameter(mm)	Material and color	
	40		
SOP	64		
	92	Material: OF=Geranium foam rubber(Orange) NF=Neoprene foam rubber(Black)	
	127		
	180		

How to Order

 $SOP \hspace{0.2cm} 40-M12 \hspace{0.2cm} \text{($\textcircled{\tiny{1}}$: Model; $\textcircled{\tiny{2}}$: Support thread type;)}$

Model	Thread type(Female thread)	Ordering code(Orange)	Ordering code(Black)	
SOP40	M12	224.4001.0000	224.4003.0000	
SOP40	G1/4	224.4002.0000	224.4004.0000	
SOP64	M12	224.6401.0000	224.6403.0000	
SOP64	G1/4	224.6402.0000	224.6404.0000	
SOP92	M12	224.9201.0000	224.9204.0000	
SOP92	G3/8	224.9202.0000	224.9205.0000	
SOP92	G1/4	224.9203.0000	224.9206.0000	
SOP127	M12	224.1271.0000	224.1273.0000	
SOP127	G1/4	224.1272.0000	224.1274.0000	
SOP180	M12	224.1801.0000	224.1803.0000	
SOP180	G1/4	224.1802.0000	224.1804.0000	

TXC

SNP

SOP SB

SBF

SBL SBLP

SF

SU

STC

SOB

SOF

SOG SFP

SBP

SXP

SGP SD

SH SHB

AZP AZPT

AZPR SPAG

SPCG SPFG

SPJG (No-mark)

SPS

SPUG

SNT

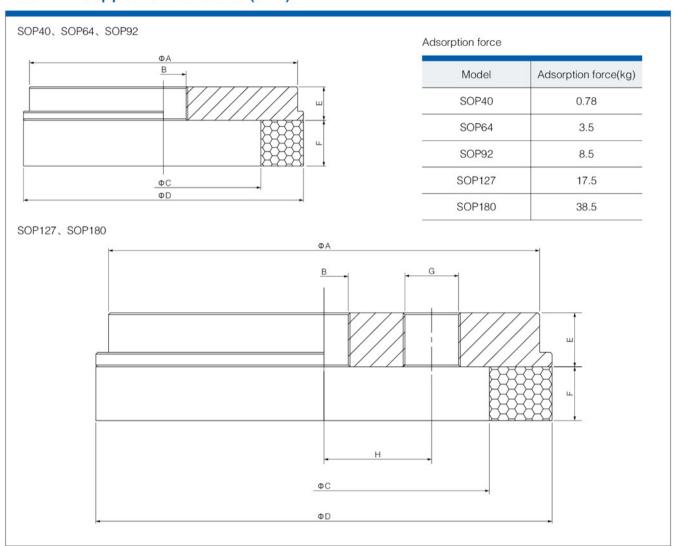
Spring Plunger Fittings for Vacuum Pads

ВН

Bulkhead Connector Ball Joint



Pad with support dimensions (mm)



	WC S	Q4 1D	201	50.		Su Constant		SE
Model	А	В	С	D	E	F	G	Н
SOP40	40	M12	20	40	10	15	-	-
SOP40	40	G1/4	20	40	10	15	-	-
SOP64	60	M12	40	64	10	15	-	-
SOP64	60	G1/4	40	64	10	15	-	-
SOP92	88	M12	64	92	11	15	-	-
SOP92	88	G3/8	64	92	11	15	-	-
SOP92	88	G1/4	64	92	11	15	-	1-
SOP127	120	M12	92	127	15	15	G3/8	30
SOP127	120	G1/4	92	127	15	15	G3/8	30
SOP180	160	M12	140	180	12	15	G3/8	60
SOP180	160	G1/4	140	180	12	15	G3/8	60

AIRBEST

Features

- ☆ 1.5 bellow vacuum pad
- ☆The vacuum pad can be horizontal adjustment, It is suitable for transfering objects with height difference
- ☆ It is particularly good for use on curved surface and









*Not available with ball joint.



SNP SOP

SBF

SBL

SBLP SF

SU

STC SFF

SOB SOF

SOG

SFP SBP

SXP

SGP SD

SH

SHB AZP **AZPT**

AZPR SPAG

SPCG

SPFG SPJG

SPJG (No-mark) SPS

SPUG SNT

Spring Plunger

Fittings for Vacuum Pads BH

Bulkhead Connector **Ball Joint**

for separating thin sheets of materials.



4 Connection thread

How to Order

SB12 N F - 18F EH - KE1820-A16 -BH-G1/8

0		(3)	4		0
① Mod	del			(2) N	Material (Shore hardness)
SB5	Φ5	SB30	Ф30	N	NBR(55°)
SB6X	Φ6	SB40	Φ40	S	Silicone(50°)
SB8	Φ8	SB50	Ф50	WS	White silicone(50°)
SB10	Φ10	SB75	Φ75		
SB12	Φ12	SB110	Ф 110		
SB15	Φ 15	SB150	Φ 150		
SB17	Ф 17				
SB20	Φ20				
3 Filte	er			⑤ V	acuum efficiency valve
	ith filter(l B30,40,	PE) 30,50,75,	110)	EH	Vacuum efficiency valve (SB17,20,30,40,50)
- No)			_	No
					·-

(7)

18-F	G1/8 Female thread (SB17,SB20,SB30,SB40,SB50,SB75)
5 × 18F	5 x G1/8 Female thread (SB30,SB40,SB50)
15-FL	G1/8 Female thread (SB30,SB40)
14-F	G1/4 Female thread (SB75)
38-F	G3/8 Female thread (SB75)
12-F	G1/2 Female thread (SB75,SB110,SB150)
M5-M	M5 Male thread (SB5,SB8,SB10,SB12,SB15)
M5/18MF	M5 Female thread and G1/8 Male thread (SB17,SB20)
M5/18-MFL	M5 Female thread and G1/8 Male thread (SB17,SB20)
5 × M5-F	5 x M5 Female thread (SB17,SB20)
18-M	G1/8 Male thread (SB30,SB40)
14-M	G1/4 Male thread (SB30, SB40,SB50)
38-M	G3/8 Male thread (SB50)

^{*} Refer to the fittings for vacuum pads on page 208-211 Remark: SB30~150 fittings are including mesh filter. only for silicone material.

Accessories KE1820-A16 BH-G1/8

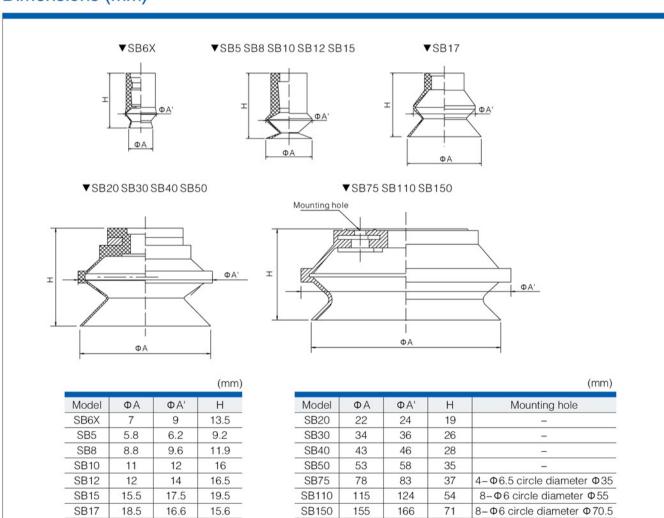
6Spring plunger 7 Ball Joint Model Buffer stroke(mm) KE510-A12, KE510-Y-A12 10 KE520-A12, KE20-Y-A12 20 KI506-R-A8, KI506-B-A8, KI506-E-A8, KI506-S-A8 06 KI510-R-A8, KI510-B-A8, KI510-E-A8, KI510-S-A8 10 KI525-R-A8, KI525-B-A8, KI525-E-A8, KI525-S-A8 25 KI507-V-A10 7 KI515-V-A10 15 KI520-V-A10 20 KE1810-A16, KE1810-L-A14, KE1810-V-A16 10 KE1820-A16, KE1820-L-A14, KE1820-V-A16 20 KE1830-A16, KE1830-L-A14, KE1830-V-A16 30 KE1850-A16, KE1850-L-A14, KE1850-V-A16* 50 BH-G1/8 KI1810-A16, KI1810-L-A16, KI1810-V-A16 10 KI1820, KI1820-L-A16, KI1820-V-A16* 20 KI1830-A16, KI1830-L-A16, KI1830-V-A16 30 KI1850-A16, KI1850-L-A16, KI1850-V-A16* 50 KE1210-L-A20, KE1210-A20 10 KE1220-L-A20, KE1220-A20 20 KE1230-L-A20, KE1230-A20 30 KE1250-L-A20, KE1250-A20 50 BH-G1/2 KI1210-L-A20, KI1210-A18, KI1210-A22 10 KI1220-L-A20, KI1220-A18, KI1220-A22 20 KI1230-L-A20, KI1230-A18, KI1230-A22 30 KI1250-L-A20, KI1250-A18, KI1250-A22 50



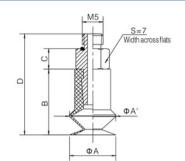
Recommended(Max.)lifting force(N)

Model	Volume cm ³	Vertical lifting force(N)					
Woder	Volume cm	-20kPa	-60kPa	-90kPa			
SB5	0.05	0.295	0.786	0.99			
SB6X	0.09	0.5	1.076	1.375			
SB8	0.15	0.786	1.7	2.45			
SB10	0.48	1.7	3.5	5.1			
SB12	0.59	2.2	4.2	7.2			
SB15	1.1	3.3	6	8.9			
SB17	1.5	3.93	7.82	9.7			
SB20	2.7	5.8	10.6	15			
SB30	10	13	25	28			
SB40	15	22.5	42	50.2			
SB50	32	34	65	83			
SB75	110	74	166.4	226			
SB110	310	136.5	343	460.5			
SB150	650	295	686	883			

Dimensions (mm)



Vacuum Pads



AIRBEST

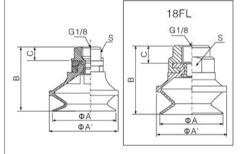
Male thread connection(mm)

Model	ΦА	ФА'	В	С	D
SB5-M5	5.6	6.2	9.2	4	16.7
SB8-M5	8.8	9.6	11.9	4	19.4
SB10-M5	11	12	16	5	25
SB12-M5	12	14	16.5	5	25.5
SB15-M5	15.5	17.5	19.5	5	28.5

Male thread connection(mm)

5	9 9	80	0	A	Y.	U 778	N 0	
Model	ΦА	ФΑ'	В	С	D	E	G	S
SB17-M5/18MF	18.5	16.6	17.1	1.5	23.1	M5	G1/8	S12
SB20-M5/18MF	22	24	20.5	1.5	26.5	M5	G1/8	S12
SB20-M5/18MFL*	22	24	22	3	29	M5	G1/8	S16
SB30-18M	34	36	31	5	38	-	G1/8	S17
SB30-14M	34	36	32	6	41	-	G1/4	S17
SB40-18M	43	46	33	5	40	-	G1/8	S17
SB40-14M	43	46	34	6	43	-	G1/4	S17
SB50-14M	53	58	41	6	50	-	G1/4	S24
SB50-38M	53	58	41	6	51	-	G3/8	S24

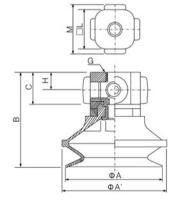
*only for S (Silicone) material



Female thread connection(mm)

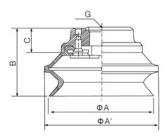
Model	ФА	ФА'	В	С	S
SB17-18F	18.5	16.6	23.6	8	S15
SB20-18F	22	24	27	8	S15
SB30-18F	34	36	34	8	S17
SB30-18FL*	34	36	35	9	S21
SB40-18F	43	46	36	8	S17
SB40-18FL*	43	46	37	9	S21
SB50-18F	53	58	44	9	S24

*only for S (Silicone) material



Female thread connection × 5(mm)

Model	ΦА	ФА'	В	С	G	Н	□L	M
SB17-5 × M5F	18.5	16.6	24.6	9	5 × M5	5	15	22
SB20-5 × 5F	22	24	28	9	5 × M5	5	15	22
SB30-5 × 18F	34	36	34	18	5×G1/8	10	22	30
SB40-5 × 18F	43	46	46	18	5×G1/8	10	22	30
SB50-5 × 18F	53	58	53	18	5×G1/8	10	28	36



Female thread connection × 5(mm)

Model	ΦА	ФА'	В	С	G
SB75-18F	78	83	50	18	G1/8
SB75-14F	78	83	50	18	G1/4
SB75-38F	78	83	50	18	G3/8
SB75-12F	78	83	50	18	G1/2
SB110-12F	115	124	63	15	G1/2
SB150-12F	155	166	78	14	G1/2

TXC

SOP

SBF

SBL SBLP

SF SU

STC

SFF SOB

SOF SOG

SFP

SBP

SGP

SD SH

SHB

AZP AZPT

AZPR

SPAG SPCG

SPFG SPJG

SPJG (No-mark)

SPS

SPUG

SNT
Spring Plunger

Fittings for Vacuum Pads

BH Bulkhead Connector



- ☆ 1.5 bellow & flat vacuum pad
- ☆Transfer objects in the vertical plane steadily and safely, there is good lifting force.
- ☆ Strong adsorptive power, good wear resistance.

Applications

- ♦Stamping equipment
- ♦Flat steel plate ♦Glass
- ♦ Carton box transfering
- ♦Steel plate supplying
- ♦Plywood
- ♦Sheet metal stamping







Model

Model Diameter(mm)	Connection thread	Shore hardness
30 40 50 60 80 100	18F(G1/8 Female thread) 14F(G1/4 Female thread) 14M(G1/4 Male thread) 38F(G3/8 Female thread) 12F(G1/2 Female thread) M10M(M10 × 1.5Male thread) RA Rectangular adapter	Material: PU Shore hardness 60

[△] SBF30PU-18F

How to Order

Thread Model	18F	14F	14M	38F	12F	M10M	RA
SBF30PU	206.0305.1100	206.0305.1200	206.0305.0200	206.0305.1300	-	206.0305.1000	206.0305.0932
SBF40PU	206.0405.1100	206.0405.1200	206.0405.0200	206.0405.1300	-	206.0405.1000	206.0405.0932
SBF50PU	206.0505.1100	206.0505.1200	206.0505.0200	206.0505.1300	-	206.0505.1000	206.0505.0932
SBF60PU	206.0605.1100	206.0605.1200	206.0605.0200	206.0605.1300	206.0605.1400	206.0605.1000	206.0605.0932
SBF80PU	206.0805.1100	206.0805.1200	206.0805.0200	206.0805.1300	206.0805.1400	206.0805.1000	206.0805.0932
SBF100PU	206.1005.1100	206.1005.1200	206.1005.0200	206.1005.1300	206.1005.1400	-	206.1005.0932

Recommended (max.) Lifting Force (N)

Model	Volume(cm ³)	,	Vertical lifting force	e 📥	Parallel lifting force			
Woder	volume(cm)	-20kPa	-60kPa	-90kPa	-20kPa	-60kPa	-90kPa	
SBF30	6	. 11	60.2	91	8.4	30.5	76	
SBF40	7.2	17.5	93	119.8	11.3	63.8	110.8	
SBF50	11	25	128.5	157.8	20.5	94	144	
SBF60	22	87.3	156.2	189.2	67	125.6	165.8	
SBF80	59.5	118.6	210.5	252.6	89	167.8	221.2	
SBF100	103.5	149	269.5	310.4	111.8	209.8	276.5	

[△]Workpiece is with smooth, dry surface, the above pull-out force datas don't include a safety factor. Values may change according to different workpiece surfaces.



TXC

TXM SNP SOP SB

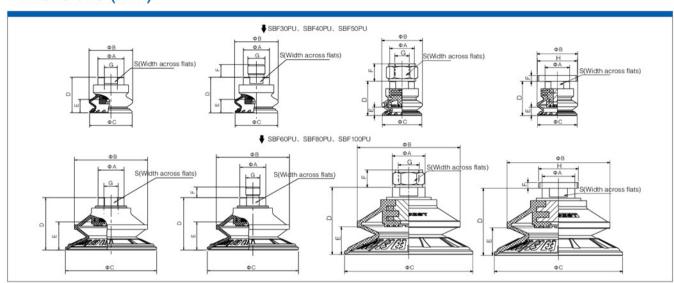
SBF

SBL

SBLP SF SU STC SFF SOB SOF SOG SFP SBP SXP SGP SD SH SHB AZP AZPT **AZPR** SPAG **SPCG SPFG** SPJG SPJG (No-mark) SPS **SPUG** SNT Spring Plunger Fittings for Vacuum Pads



Dimensions (mm)



Model	ΦА	ΦВ	ΦС	D	E	F	G	S Width across flats	Н
SBF 30PU-18F	19.8			28		14	G1/8 Female thread	17	1-1
SBF 30PU-14F	19.8			28		778	G1/4 Female thread	17	-
SBF 30PU-38F	19.8	32	32	28	7	14	G3/8 Female thread	22	-
SBF 30PU-14M	19.8	32	32	28	1 ′	13.5	G1/4 Male thread	17	_
SBF 30PU-M10M	19.8			28		12	M10x1.5 Male thread	17	-
SBF 30PU-RA	19.8			28	1	4.7	_	17	32
SBF 40PU-18F	19.8			29		14	G1/8 Female thread	17	-
SBF 40PU-14F	19.8			29		57.0	G1/4 Female thread	17	-
SBF 40PU-38F	19.8	20	40	29	9	14	G3/8 Female thread	22	_
SBF 40PU-14M	19.8	32	42	29	9	13.5	G1/4 Male thread	17	_
SBF 40PU-M10M	19.8			29		12	M10x1.5 Male thread	17	-1
SBF 40PU-RA	19.8			29		4.7	-	17	32
SBF 50PU-18F	25			37		14	G1/8 Female thread	22	
SBF 50PU-14F	25			37	11.5	14	G1/4 Female thread	22	177
SBF 50PU-38F	25	40	51.5	37		-	G3/8 Female thread	22	-
SBF 50PU-14M	25	40	51.5	37		13.5	G1/4 Male thread	22	_
SBF 50PU-M10M	25			37		12	M10x1.5 Male thread	22	
SBF 50PU-RA	25			37		4.7	1-	22	32
SBF 60PU-18F	22			41.5	15	14	G1/8 Female thread	22	-
SBF 60PU-14F	22			41.5		14	G1/4 Female thread	22	-
SBF 60PU-38F	24			41.5		-1	G3/8 Female thread	21	-
SBF 60PU-12F	24	50	64	41.5		14	G1/2 Female thread	24	_
SBF 60PU-14M	24]		41.5		13.5	G1/4 Male thread	21	-
SBF 60PU-M10M	24			41.5		12	M10x1.5 Male thread	21	
SBF 60PU-RA	24			41.5		4.7	_	21	32
SBF 80PU-18F	24			49.5		14	G1/8 Female thread	22	-
SBF 80PU-14F	24			49.5]	14	G1/4 Female thread	22	-
SBF 80PU-38F	24			49.5	1		G3/8 Female thread	21	-
SBF 80PU-12F	24	68	84	49.5	22.5	14	G1/2 Female thread	24	-
SBF 80PU-14M	24			49.5]	13.5	G1/4 Male thread	21	-
SBF 80PU-M10M	24			49.5		12	M10x1.5 Male thread	21	-
SBF 80PU-RA	24			49.5		4.7	-	21	32
SBF 100PU-18F	24			55		14	G1/8 Female thread	22	-
SBF 100PU-14F	24			55		14	G1/4 Female thread	22	-
SBF 100PU-38F	24	00	100	55	20.5	-0	G3/8 Female thread	22	-
SBF 100PU-12F	24	83	103	55	20.5	14	G1/2 Female thread	24	-
SBF 100PU-14M	24			55	1	13.5	G1/4 Male thread	22	-
SBF 100PU-RA	24	1		55	1	4.7	_	22	32



- ☆4.5 bellow vacuum pad.
- ☆ Transfering fragile objects, high safety.
- ☆Transfering objects with height differences.
- ☆Transfering foods with plastic package.

Applications

- ♦Eggs
- ♦Glass
- ♦Bread
- ◇Foods with plastic package



How to Order

SBL40 - M5/18MF - EH - KE510-A12 N

① Model	
SBL15	Φ15
SBL20	Ф20
SBL30	Ф30
SBL35M	Ф35
SBL40	Φ40
SBL40B	Φ40
SBL50	Ф50

1

(2) N	laterial (Shore hardness)
Ν	NBR(55°)
S	Silicone(50°)
WS	White silicone(50°)
CS	Conductive(Special mat'l)(50°)

3 Connection thread			
M5-M	M5 Male th		
10 14	C1/Q Mala		

M5-M	M5 Male thread (SBL15)
18-M	G1/8 Male thread (SBL30, SBL40)
14-M	G1/4 Male thread (SBL30, SBL40, SBL50)
38-M	G3/8 Male thread (SBL50)
M5/18MF	M5 Female thread G1/8 Male thread (SBL20)
M5/18MFL*	M5 Female thread G1/8 Male thread (SBL20)
$5 \times M5F$	5 x M5 Female thread (SBL20)
18-F	G1/8 Female thread (SBL20, SBL30, SBL40, SBL50)
18-FL	G1/8 Female thread (SBL30, SBL40)
5 × 18F	5 × G18 Female thread (SBL30, SBL40, SBL50)

^{*} Refer to the fittings for vacuum pads on page 208-211

4 Valve

EΗ	Vacuum efficiency valve
	(SBL20,30,40,50)
-	No

Accessories

KE510-A12



5 Spring plunger	
Model	Buffer stroke(mm)
KI506-R-A8, KI506-B-A8, KI506-E-A8, KI506-S-A8	06
KI510-R-A8, KI510-B-A8, KI510-E-A8, KI510-S-A8	10
KI525-R-A8, KI525-B-A8, KI525-E-A8, KI525-S-A8	25
KI507-V-A10	7
KI515-V-A10	15
KI520-V-A10	20
KE1810-A16, KE1810-L-A14, KE1810-V-A16	10
KE1820-A16, KE1820-L-A14, KE1820-V-A16	20
KE1830-A16, KE1830-L-A14, KE1830-V-A16	30
KE1850-A16, KE1850-L-A14, KE1850-V-A16*	50
KI1810-A16, KI1810-L-A16, KI1810-V-A16	10
KI1820-A16, KI1820-L-A16, KI1820-V-A16*	20
KI1830-A16, KI1830-L-A16, KI1830-V-A16	30
KI1850-A16, KI1850-L-A16, KI1850-V-A16*	50

*Not available with ball joint.

Recommended(Max.)lifting force(N)

Model	Volume cm ³	Vertical lifting force(N)		
model	Volume om	-20kPa	-60kPa	
SBL15	1.95	0.24	0.48	
SBL20	4	0.3	0.6	
SBL30	13	0.6	1.55	
SBL35M	21	0.79	1.87	
SBL40	27	1.05	2.15	
SBL40B	26	10	20.53	
SBL50	55	1.68	4.22	

TXC TXM

SNP SOP SB

SBF

SBL

SF

SU

STC SFF SOB

SOF

SFP SBP SXP SGP

SD SH SHB

AZP

AZPT AZPR

SPAG SPCG

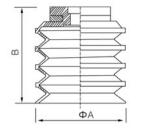
SPJG SPJG (No-mark)

SPS

SPUG SNT

SBLP

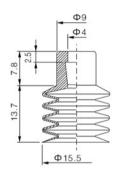
AIRBEST



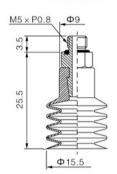
◀ SBL20 SBL30 SBL40 SBL50

Model	ФА	В
SBL20	20	23
SBL30	30	32
SBL40	40	42
SBL50	50	52

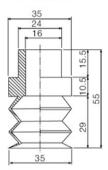
▼ SBL15



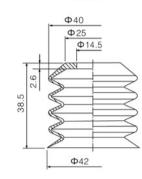
▼ SBL 15M5M



▼ SBL35M



▼ SBL40B



M5/18MFL

Male thread connection(mm)

Model	ΦА	В	С	D	F	G	S
SBL20-M5/18MF	20	24.5	1.5	30.5	M5	G1/8	S12
SBL20-M5/18MFL*	20	26	3	27	M5	G1/8	S16
SBL30-18M	30	37	5	44	77.0	G1/8	S17
SBL30-14M	30	38	6	47	-	G1/4	S17
SBL40-18M	40	17	5	24	-	G1/8	S17
SBL40-14M	40	48	6	57	_	G1/4	S17
SBL50-14M	50	58	6	67	-	G1/4	S24
SBL50-38M	50	58	6	68		G3/8	S24

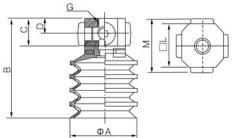
*only for S (Silicone) material

Female thread connection(mm)

Model	ФА	В	С	G	S
SBL20-18F	20	31	8	G1/8	S15
SBL30-18F	30	40	8	G1/8	S17
SBL30-18FL*	30	41	9	G1/8	S21
SBL40-18F	40	50	8	G1/8	S17
SBL40-18FL*	40	51	9	G1/8	S21
SBL50-18F	50	60	9	G1/8	S24

*only for S (Silicone) material

Female thread connection x5(mm)



Model	ΦА	В	С	D	G		M
SBL20-5 × M5F	20	32	9	5	5 × M5	15	22
SBL30-5 × 18F	30	50	18	10	5×G1/8	22	30
SBL40-5 × 18F	40	60	18	10	5×G1/8	22	30
SBL50-5 × 18F	50	70	18	10	5×G1/8	28	36

Spring Plunger
Fittings for Vacuum Pads

BH Bulkhead Connector



- ♦ Long bellows, suitable for level compensation in the process of handling
- ♦Good sealing properties with long and thin lip
- ♦ High flow, handling objects quickly
- ♦ Suitable for bags with irregular shapes e.g. frozen food bags, water bags and so on
- ♦Silicone material, wide working temperature range (-40°C~200°C)





Model

Model	Diameter (mm)	Material and hardness	Connection thread
			G1/4M
SBLP	30 40 50		N1/4M
		0. 035(40)	G3/8M
		S-Silicone(40)	N3/8M
			G1/2M
			N1/2M

 $[\]triangle$ SBLP30-G1/4M G-gthread N-NPT thread M-Male thread

How to order

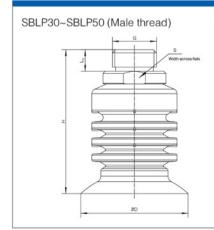
Connection	G1/4-M	NPT1/4-M	G3/8-M	NPT3/8-M	G1/2-M	NPT1/2-M
SBLP30S	214.3012.0000	214.3032.0000				
SBLP40S			214.4013.0000	214.4033.0000		
SBLP50S					214.5014.0000	214.5034.0000

Technical parameters

Model Lifting force N (-60kPa)		Inner volume (cm³)	Min. curve radius of workpiece (cm)	Weight of rubber part (g)	
SBLP30	9	8.5	17	14.5	
SBLP40	15	14	22	10	
SBLP50	25	26	30	29	

 $[\]triangle$ Workpiece is with smooth, dry surface, the above pull-out force datas don't include a safety factor. Values may change according to different workpiece surfaces.

Dimensions



Dimension(mm) Model	D	Н	G	L _G	S
SBLP30-G1/4M	30.5	51.5	G1/4	9	19
SBLP30-N1/4M	30.5	51.5	NPT1/4	11.5	19
SBLP40-G3/8M	40	56	G3/8	10	22
SBLP40-N3/8M	40	57.5	NPT3/8	11.5	22
SBLP50-G1/2M	50	69	G1/2	10	28
SBLP50-N1/2M	50	69	NPT1/2	16	28

TXC

TXM

SNP

SOP

SB

SBF

SBL

SBLP

SU STC SFF

SOB

SOF

SOG

SFP

SBP

SXP

SGP SD SH SHB AZP AZPT **AZPR** SPAG SPCG **SPFG SPJG** SPJG (No-mark) SPS **SPUG** SNT Spring Plunge Fittings for Vacuum Pads BH Bulkhead Connector Ball Joint

AIRBEST

Features

- ☆Flat vacuum pad.
- ☆Suitable for transfering flat objects.
- ☆When lifting force is parallel to the surface of objects, it is recommended.

(3)

Applications

- ♦ Household appliances
- ♦Glass
- ♦Plywood
- ♦Flat steel plate
- ◇Plastic plate



How to Order

SF40 N - 18F EH - KE1820-A16 - BH-G1/8

4 Valve

No

	1 Model				
	SF15	Φ15		SF75	Φ75
	SF20	Ф20		SF90	Φ90*
	SF25	Φ25		SF110	Ф 110
3	SF30	Ф30	-	SF150	Φ 150
	SF40	Φ40		SF200	Ф 200
5	SF50	Φ50		SF300	Φ300

2 N	laterial (Shore hardness)
N	NBR(55°)
S	Silicone(50°)
WS	White silicone(50°)
CS	Conductive(Special mat'l)(50°)

NBR(55°)
Silicone(50°)
White silicone(50°)
Conductive(Special mat'l)(50°

Ν	NBR(55°)
S	Silicone(50°)
WS	White silicone(50°)
CS	Conductive(Special mat'l)(50°

EH Vacuum efficiency valve

(SF20,25,30,40,50) EB Cone valve(SF20,25,30,

40,50,75,90,110,150)

3 Connection	on thread
18-F	G1/8 Female thread (SF20,25,30,40,50,75,90)

18-FA	G1/8 Female thread (SF40)
5 × 18F	G1/8 Female thread (SF40,SF50)
14-F	G1/4 Female thread (SF75,90)
38-F	G3/8 Female thread (SF75,90)
12-F	G1/2 Female thread (SF75,90,110,150,200)
34-F	G3/4 Female thread (SF300)
M5-M	M5 Male thread (SF15)
M5/18-MF	M5 Female thread and G1/8 Male thread (SF20,25,30)
M5/18-MFL	M5 Female thread and G1/8 Male thread (SF20,25,30)
$5 \times M5F$	5 x M5 Female thread (SF20,25,30)
18-M	G1/8 Male thread (SF50)
14-M	G1/4 Male thread (SF40,50)
38-M	G3/8 Male thread (SF50)

Accessories

KE1820-A16 BH-G1/8

*Refer to the fittings for vacuum pads on page 208–211
Remark:SF40~SF200 fittings are including mesh filter.
only for silicone material.

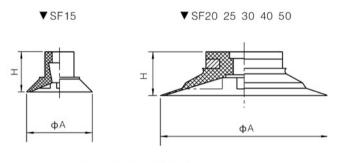
Spring plunger	<u></u>	6Ball Joint	
Model	Buffer stroke(mm)		
KE510-A12, KE510-Y-A12	10		
KE520-A12, KE20-Y-A12	20		
KI506-R-A8, KI506-B-A8, KI506-E-A8, KI506-S-A8	06		
KI510-R-A8, KI510-B-A8, KI510-E-A8, KI510-S-A8	10	-	
KI525-R-A8, KI525-B-A8, KI525-E-A8, KI525-S-A8	25		
KI507-V-A10	7		
KI515-V-A10	15		
<i520-v-a10< p=""></i520-v-a10<>	20		
KE1810-A16, KE1810-L-A14, KE1810-V-A16	10		
KE1820-A16, KE1820-L-A14, KE1820-V-A16	20		
KE1830-A16, KE1830-L-A14, KE1830-V-A16	30		
KE1850-A16, KE1850-L-A14, KE1850-V-A16*	50	BH-G1/8	
KI1810-A16, KI1810-L-A16, KI1810-V-A16	10	BH-G1/6	
KI1820, KI1820-L-A16, KI1820-V-A16*	20		
KI1830-A16, KI1830-L-A16, KI1830-V-A16	30		
KI1850-A16, KI1850-L-A16, KI1850-V-A16*	50		
KE1210-L-A20, KE1210-A20	10		
KE1220-L-A20, KE1220-A20	20		
KE1230-L-A20, KE1230-A20	30		
KE1250-L-A20, KE1250-A20	50	BH-G1/2	
KI1210-L-A20, KI1210-A18, KI1210-A22	10	DH-G1/2	
KI1220-L-A20, KI1220-A18, KI1220-A22	20		
KI1230-L-A20, KI1230-A18, KI1230-A22	30		
KI1250-L-A20, KI1250-A18, KI1250-A22	50		



Recommended(Max.)lifting force(N)

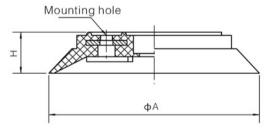
Model	Volume cm ³	Vertical lifting force(N)			Parallel lifting force(N)		
	Volume om	-20kPa	-60kPa	-90kPa	-20kPa	-60kPa	-90kPa
SF15	0.037	3.25	8.4	11	3.45	6.48	7.5
SF20	1	6	15	18.7	5	7.95	8.45
SF25	1.1	9.2	19.3	24.9	7.95	8.95	10
SF30	2	13	24.8	30.8	11	15.98	20
SF40	4.8	20	40	50	15	25	29.5
SF50	10	37	74	96	24	40	50
SF75	20	80	201	272	60	110	140
SF90	50	99.8	272.8	365.8	86.8	156.5	193.5
SF110	70	141	418.5	562	140	24.8	299.7
SF150	160	300	845	1098	250	600	800
SF200	460	749	1899.5	2702	375.5	949.8	1347.8
SF300	820	1598	4293	6398	1323	3008	4665

Dimensions (mm)



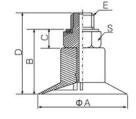
ΦА	Н
16.5	11
22	8
27	9
32	10
42	13
53	17.5
	16.5 22 27 32 42

▼SF75 90 110 150 200



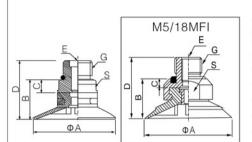
Model	ΦА	Н	Mounting hole
SF75	77	13	4-Φ5 Circle diameter Φ35
SF90	92	12.5	4-Φ5 Circle diameter Φ35
SF110	112	20	8-Φ5 Circle diameter Φ55
SF150	152	26	8-Φ5 Circle diameter Φ70
SF200	200	41	-

SF15-M5M



Male(female)thread connection(mm)

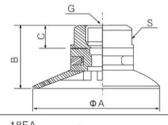
Model	ΦА	В	С	D	E	G	S
SF15-M5M	16.5	11	5	19.5	M5	9/22	S7

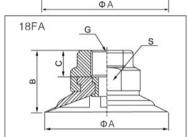


AIRBEST

Male(female)thread connection(mm)

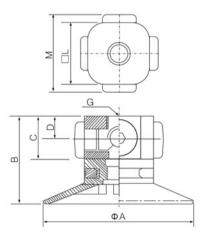
Model	ΦА	В	С	D	Е	G	S
SF20-M5/18MF	22	9.5	1.5	15.5	M5	G1/8	S12
SF20-M5/18MFI	22	11	3	18	M5	G1/8	S16
SF25-M5/18MF	27	10.5	1.5	16.5	M5	G1/8	S12
SF25-M5/18MFI	27	12	3	19	M5	G1/8	S16
SF30-M5/18MF	32	11.5	1.5	17.5	M5	G1/8	S12
SF30-M5/18MFI	32	13	3	20	M5	G1/8	S16
SF40-18M	42	18	5	25	-	G1/8	S17
SF40-14M	42	19	6	28	i -	G1/4	S17
SF50-14M	53	22.5	6	32.5	-	G1/4	S24
SF50-38M	53	23.5	6	33.5	-	G3/8	S24





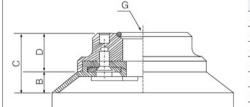
Female thread connection(mm)

Madal	Φ Δ	В		0	C
Model	ФА	Ь	С	G	S
SF20-18F	22	16	8	G1/8	S15
SF25-18F	27	17	8	G1/8	S15
SF30-18F	32	18	8	G1/8	S15
SF40-18F	43	21	8	G1/4	S17
SF40-18FI	42	22	9	G1/8	S21
SF50-18F	53	26.5	9	G1/8	S21



Female thread connection x5(mm)

Model	ΦА	В	С	D	G	□L	М
SF20-5 × M5F	22	17	9	5	M5×5	15	22
SF25-5 × M5F	27	18	9	5	M5×5	15	22
SF30-5 × M5F	32	19	9	5	G1/8×5	15	22
SF40-5 × 18F	42	31	18	10	G1/8×5	22	30
SF50-5 × 18F	53	35.5	18	10	G1/8×5	28	36



ΦА

Female thread connection(mm)

Model	ФА	В	С	D	G
SF75-18F	77	8	26	18	G1/8
SF75-14F	77	8	26	18	G1/4
SF75-38F	77	8	26	18	G3/8
SF75-12F	77	8	26	18	G1/2
SF90-18F	92	7.5	25.5	18	G1/8
SF90-14F	92	7.5	25.5	18	G1/4
SF90-38F	92	7.5	25.5	18	G3/8
SF90-12F	92	7.5	25.5	18	G1/2
SF110-12F	112	14	29	15	G1/2
SF150-12F	152	18	33	14	G1/2

TXC TXM

SNP SOP

SB SBF

SBL

SBLP

SU

STC SFF

SOB

SOF SOG

SFP SBP

SXP

SGP

SD

SH

SHB

AZP

AZPT

AZPR SPAG

SPCG

SPFG

SPJG

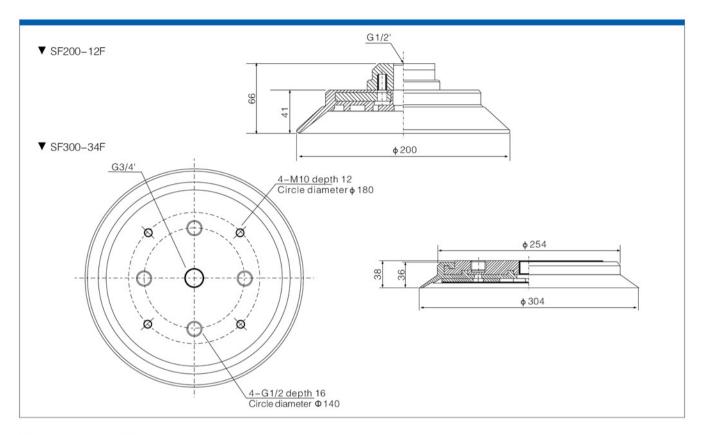
SPS

SPUG

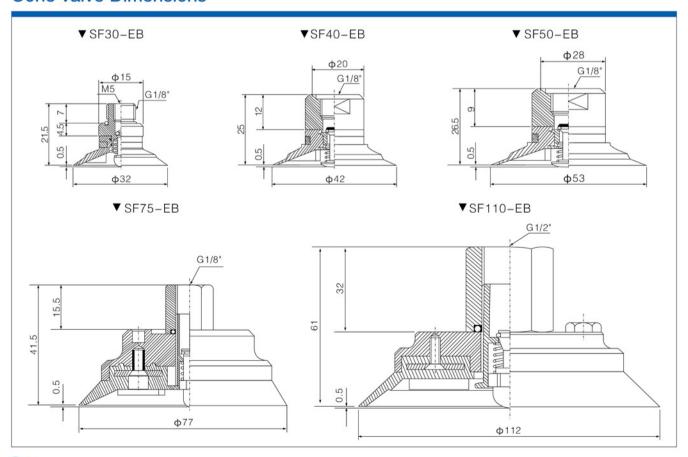
Spring Plunger

BH





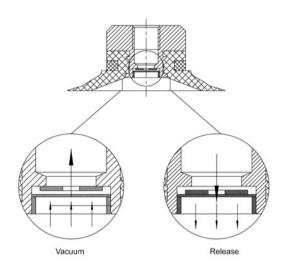
Cone valve Dimensions



Accessories

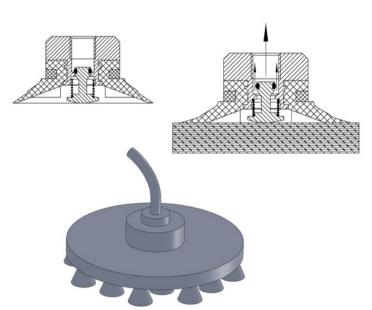
Vacuum Efficiency valve (EH)

It can compensate the level differences of the lifting objects. When the shape, dimension and location of the lifting object is not the same, the valve can work as an absorber. When the vacuum pad is not in contact with the object, the vacuum efficiency valve fitting can reduce leakage minimally.



Cone Valve (EB)

When the vacuum pad is not in contact with the object, the valve closes the opening in the fitting. It prevents vacuum leakage. When the vacuum pad contacts with the object, the valve first opens, then vacuum is created in the pad.



TXC

SNP

SOP

SB SBF

SBL

SBLP

SF

STC

SFF

SOB

SOG

SFP

SBP

SXP

SGP

SD

SH

SHB

AZP

AZPT AZPR

SPAG

SPCG

SPFG

SPJG

3536

SPJG (No-mark)

SPS

SPUG

SNT

Spring Plung

Fittings for Vacuum Pad

вн

Bulkhead Connector











- ☆Standard flat vacuum pad.
- ☆Suitable for concave and convex objects.
- ☆ Suitable for flat and smooth surface objects.
- ☆Suitable for a little bending objects.

Applications

- ♦Steel plate
- ♦ Small semiconductor material

How to Order

SU30 N 18M - EH - KI1810-A16 - BH-G1/8

① Model			
SU1.5X	Ф1.5	SU10	Ф 10
SU2	Φ2	SU15	Ф 15
SU2X	Φ2	SU20	Ф20
SU3	Ф3	SU25	Ф25
SU4	Φ4	SU30	Ф30
SU4X	Φ4	SU40	Φ40
SU6	Φ6	SU50	Ф50
SLIB	Φ8	SLIBO	Φ80

2 N	Material (Shore hardness)
N	NBR(55°)
0	Ciliaana/FO0 \

S	Silicone(50°)	
WS	White silicone(50°)	
CS	Conductive(Special mat'l)(50°)
	<u> </u>	_

4 Cone Valve

EΗ	Vacuum efficiency valve
	(SU20,SU25,SU30,SU40,SU50)
-	No

3 Connection thread

M2.5-M	M2.5 Male thread (SU2,SU3)
M5-M	M5 Male thread (SU2,SU3,SU4,SU6,SU8,SU10,SU15)
18-M	G1/8 Male thread (SU40)
14-M	G1/4 Male thread (SU40,SU50)
38-M	G3/8 Male thread (SU50)
M5/18-MF	M5 Female thread and G1/8 Male thread (SU20,SU25,SU30)
M5/18-MFI*	M5 Female thread and G1/8 Male thread (SU20,SU25,SU30)
5xM5F	5 x M5 Female thread (SU20,SU25,SU30)
18-F	G1/8 Female thread (SU30,SU40,SU50,SU80)
5x18F	5 x G1/8 Female thread (SU40,SU50)
8	Φ8 Inner hole (SU80)
18-FA*	G1/8 Female thread (SU40)

Accessories

KI1810-A14 BH-G1/8

)

*Refer to the fittings for vacuum pads on page 208–211. Remark:SU40 SU50 fittings are including mesh filter. Only for silicone material.

⑤Spring plunger		6Ball Joint
Model	Buffer stroke(mm)	
(E510-A12, KE510-Y-A12	10	
KE520-A12, KE20-Y-A12	20	
KI506-R-A8, KI506-B-A8, KI506-E-A8, KI506-S-A8	06	
(I510-R-A8, KI510-B-A8, KI510-E-A8, KI510-S-A8	10	-
KI525-R-A8, KI525-B-A8, KI525-E-A8, KI525-S-A8	25	
(I507-V-A10	7	
(I515-V-A10	15	
(I520-V-A10	20	
E1810-A16, KE1810-L-A14, KE1810-V-A16	10	
KE1820-A16, KE1820-L-A14, KE1820-V-A16	20	
KE1830-A16, KE1830-L-A14, KE1830-V-A16	30	
KE1850-A16, KE1850-L-A14, KE1850-V-A16*	50	DI C1/0
KI1810-A16, KI1810-L-A16, KI1810-V-A16	10	BH-G1/8
KI1820, KI1820-L-A16, KI1820-V-A16*	20	
KI1830-A16, KI1830-L-A16, KI1830-V-A16	30	
(I1850-A16, KI1850-L-A16, KI1850-V-A16*	50	

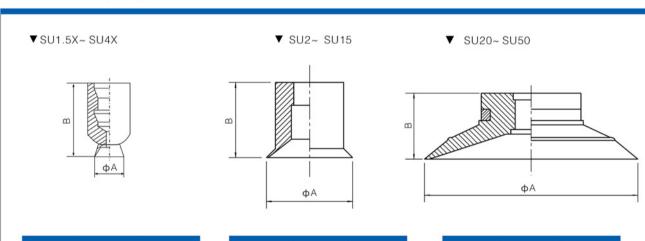
SU Series(Standard Flat Vacuum Pad)

Recommended(Max.)lifting force(N)

Model	Volume cm ³	Ver	Vertical lifting force(N)			Parallel lifting force(N)		
Volume cm		-20kPa	-60kPa	-90kPa	-20kPa	-60kPa	-90kPa	
SU1.5X	0.0015	0.0077	0.029	0.04	1-		_	
SU2	0.0025	0.03	0.97	0.148	1-		-	
SU2X	0.0025	0.03	0.97	0.148	2-		-	
SU3	0.005	0.089	0.395	0.59	; -	-	-	
SU4	0.03	0.198	0.885	1.275	0.198	0.78	1	
SU4X	0.03	0.198	0.885	1.275	0.198	0.78	1	
SU6	0.05	0.5	1.68	2.5	0.295	1.48	1.98	
SU8	0.1	1	2.55	3.8	1	2.85	3.35	
SU10	0.18	1.48	4.4	6.85	1.5	4.4	4.9	
SU15	0.5	3.2	8.5	11.5	3.5	5.4	5.9	
SU20	1	5.9	12.2	16	5.9	8.8	9.8	
SU25	1.5	9	20.2	19.5	6.88	9.2	10.2	
SU30	2	13	25	33	7.8	9.8	11	
SU40	5.5	20	37.5	60	13.8	22	27.5	
SU50	12	35.5	74	95	20	37	44	
SU80	32	76	194	247	44	124.5	166	

Dimensions (mm)

AIRBEST



Model	ΦА	В
SU1.5X	1.9	12
SU2X	2.6	12
SU4X	4.6	12

Model	ΦА	В
SU2	2.6	3.5
SU3	3.8	4.5
SU4	5	6.1
SU6	7	6.5
SU8	9	7

Model	ФА	В
SU10	11	10.5
SU15	16.5	11
SU20	22	8
SU25	27	9
SU30	32	9.5
SU40	42	13
SU50	53	17.5

TXC TXM

SNP SOP SB

SBF SBL

SBLP

SF

STC SFF

SOB SOF

SOG

SFP SBP

SXP

SGP SD

SH

SHB AZP

AZPT

AZPR SPAG

SPCG

SPFG

SPJG

SPS

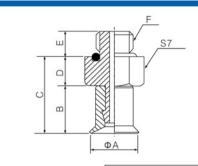
SPUG

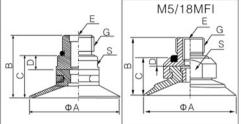
Spring Plunger

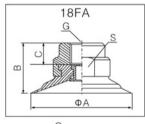
Fittings for Vacuum Pads

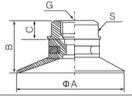


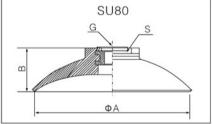


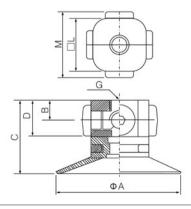












Male thread connection(mm)

Model	ΦА	В	С	D	E	F
SU2-M2.5M/M5M	2.6	3.5	6/8.1	2.5/4.6	3/4.2	M2.5/M5
SU3-M2.5M/M5M	3.8	4.5	7/9.1	2.4/4.6	3/4.2	M2.5/M5
SU4-M5M	5	6.1	10.1	4	3.5	M5
SU6-M5M	7	6.5	10.5	4	3.5	M5
SU8-M5M	9	7	11	4	3.5	M5
SU10-M5M	11	10.5	15.5	5	3.5	M5
SU15-M5M	16.5	11.5	16	5	3.5	M5

Female thread connection(mm)

Model	ΦА	В	С	D	Е	G	S
SU20-M5/18MF	22	15.5	9.5	1.5	M5	G1/8	S12
SU20-M5/18MFI*	22	18	11	3	M5	G1/8	S16
SU25-M5/18MF	27	16.5	10.5	1.5	M5	G1/8	S12
SU25-M5/18MFI*	27	19	12	3	M5	G1/8	S16
SU30-M5/18M	32	17	11	1.5	M5	G1/8	S12
SU30-M5/18MFI*	32	16.5	12.5	3	M5	G1/8	S16
SU40-18M	42	25	18	5	_	G1/8	S17
SU40-14M	42	28	19	6	-	G1/4	S17
SU50-14M	53	32.5	23.5	6	1-1	G1/4	S24
SU50-38M	53	33.5	23.5	6	_	G3/8	S24

*only for S (Silicone) material

Female thread connection(mm)

Model	ФА	В	С	G	S
SU20-18F	22	16	8	G1/8	S15
SU25-18F	27	17	8	G1/8	S15
SU30-18F	32	17.5	8	G1/8	S15
SU40-18F	42	21	8	G1/8	S17
SU40-18FA*	42	22	9	G1/8	S21
SU50-18F	53	26.5	9	G1/8	S24
SU80-18F	78	21.5	_	G1/8	S19
SU80-8	78	21.5	_	Ф8	S19

*only for S (Silicone) material

Female thread connection x5(mm)

Model	ΦА	В	С	D	G		М
SU20-5 × M5F	22	5	17	9	5 × M5	15	22
SU25-5 × M5F	27	5	18	9	5 × M5	15	22
SU30-5 × M5F	32	5	18.5	9	5 × M5	15	22
SU40-5 × 18F	42	10	31	18	5×G1/8	22	30
SU50-5 × 18F	53	10	35.5	18	5×G1/8	28	36

AIRBEST

Features

- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- ♦ Large inner support structure protects the metal sheets from deformation and damage during handling process
- ♦ Slot structure efficiently increases the friction force between vacuum pad and workpiece in order to prevent the oily metal sheets from slipping during the process of handling
- 1.5 bellows structure has good sealing and buffer to workpiece with uneven surface
- ♦ Vacuum pads are available with various connection types



Applications

- ◇Car stamped steel plates with irregular shapes
- ♦Steel plates with oily surface
- ♦ Handling normal sheet metal (in order to avoid deformation)

Model

Model	Diameter(mm)	Material and Hardness	Connection thread
STC	22 30 40 50 60 80 100	N-60(Orange)(N-NBR)	G1/4M (M-Male thread) G1/4F (F-Female thread) G3/8F M10M M14X1.5M RA Rectangular adapter

△STC80N-60-G3/8F

How to order

G1/4M (Male thread)	G1/4F (Female thread)	G3/8F (Female thread)	M10M (Male thread)	M14X1.5M (Male thread)	RA Rectangular adapter
202.0260.0102	202.0260.1102	202.0260.1103	202.0260.0210	202.0260.0214	202.0260.0932
202.0360.0102	202.0360.1102	202.0360.1103	202.0360.0210	202.0360.0214	202.0360.0932
202.0460.0102	202.0460.1102	202.0460.1103	202.0460.0210	202.0460.0214	202.0460.0932
202.0560.0102	202.0560.1102	202.0560.1103	202.0560.0210	202.0560.0214	202.0560.0932
202.0660.0102	202.0660.1102	202.0660.1103	202.0660.0210	202.0660.0214	202.0660.0932
202.0860.0102	202.0860.1102	202.0860.1103	202.0860.0210	202.0860.0214	202.0860.0932
202.1060.0102	202.1060.1102	202.1060.1103	202.1060.0210	202.1060.0214	202.1060.0932
	(Male thread) 202.0260.0102 202.0360.0102 202.0460.0102 202.0560.0102 202.0660.0102 202.0860.0102	(Male thread) (Female thread) 202.0260.0102 202.0260.1102 202.0360.0102 202.0360.1102 202.0460.0102 202.0460.1102 202.0560.0102 202.0560.1102 202.0860.0102 202.0660.1102 202.0860.0102 202.0860.1102	(Male thread) (Female thread) (Female thread) 202.0260.0102 202.0260.1102 202.0260.1103 202.0360.0102 202.0360.1102 202.0360.1103 202.0460.0102 202.0460.1102 202.0460.1103 202.0560.0102 202.0560.1102 202.0560.1103 202.0660.0102 202.0660.1102 202.0660.1103 202.0860.0102 202.0860.1102 202.0860.1103	(Male thread) (Female thread) (Female thread) (Male thread) 202.0260.0102 202.0260.1102 202.0260.1103 202.0260.0210 202.0360.0102 202.0360.1102 202.0360.1103 202.0360.0210 202.0460.0102 202.0460.1102 202.0460.1103 202.0460.0210 202.0560.0102 202.0560.1102 202.0560.1103 202.0560.0210 202.0860.0102 202.0860.1102 202.0860.1103 202.0860.0210 202.0860.0102 202.0860.1102 202.0860.1103 202.0860.0210	(Male thread) (Female thread) (Female thread) (Male thread) (Male thread) 202.0260.0102 202.0260.1102 202.0260.1103 202.0260.0210 202.0260.0214 202.0360.0102 202.0360.1102 202.0360.1103 202.0360.0210 202.0360.0214 202.0460.0102 202.0460.1102 202.0460.1103 202.0460.0210 202.0460.0214 202.0560.0102 202.0560.1102 202.0560.1103 202.0560.0210 202.0560.0214 202.0660.0102 202.0660.1102 202.0660.1103 202.0660.0210 202.0660.0214 202.0860.0102 202.0860.1102 202.0860.1103 202.0860.0210 202.0860.0214

TXC

SNP

SOP

SB SBF

SBL

SBLP SF

SU

STC

SFF

SOB

SOF SOG

SFP

SBP

SGP

SD

SH

SHB

AZPT

AZPR

SPAG

SPCG

SPFG

SPJG (No-mark)

SPS

SPUG

SNT

Fittings for Vacuum Pads

BH

Bulkhead Connector Ball Joint

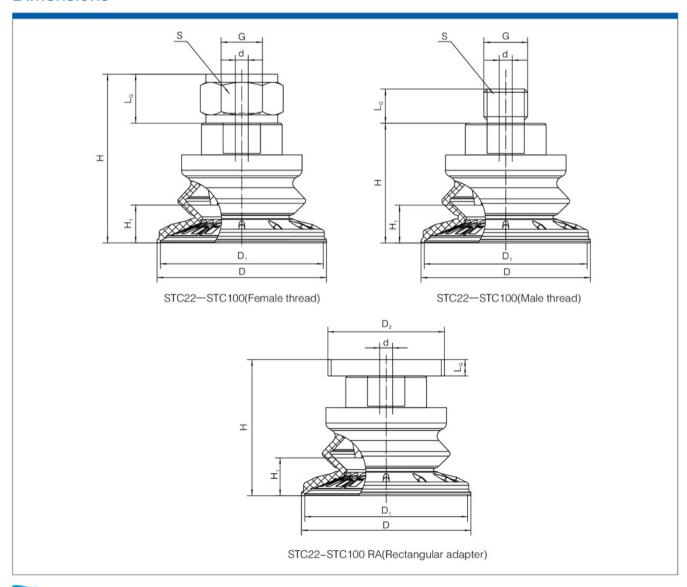


Technical parameters

Model	Vertical pull-out force (N) -60kPa	Lateral pull-out force (N) -60kPa	Lateral pull-out force on oily surface (N) -60kPa	Inner volume (cm³)	Min.curve radius of workpiece (cm)	Recommended tube Diameter (mm)	Weight (g)
STC22	23	20	6.5	1.5	20	4	8.6
STC30	35	28	12	6.3	35	4	12-23
STC40	62	37	34	7.2	35	4	13.5-24
STC50	85	58	55	11.2	45	6	21-31
STC60	141	88	83	22.5	52	6	29-39
STC80	236	141	136	57	70.5	6	51-61
STC100	371	228	221	92	95	6	77-87

 $[\]triangle$ Workpiece is with smooth, dry surface, the above pull-out force datas don't include a safety factor. Values may change according to different workpiece surfaces.

Dimensions



TXC TXM SNP SOP SB SBF SBL SBLP SF SU STC SFF SOB SOF SOG SFP SBP SXP SGP SD SH SHB AZP AZPT **AZPR** SPAG **SPCG**



Dimensions

Size (mm) Model	D	D ₁	d	G	Н	L _G	D ₂	S	H ₁
STC22N-60-G1/4F	22	20	4	G1/4F	25	12		16	5.5
STC22N-60-G1/4M	22	20	4	G1/4M	25	12		16	5.5
STC22N-60-G3/8F	22	20	4	G3/8F	39	11		22	5.5
STC22N-60-M10M	22	20	4	M10M	25	12		16	5.5
STC22N-60-M14M	22	20	4	M14X1.5M	25	12		16	5.5
STC22N-60-RA	22	20	4		33	4.7	32		5.5
STC30N-60-G1/4F	32	30	4	G1/4F	28	12		17	9.5
STC30N-60-G1/4M	32	30	4	G1/4M	28	12		17	9.5
STC30N-60-G3/8F	32	30	4	G3/8F	42	11		22	9.5
STC30N-60-M10M	32	30	4	M10M	28	12		17	9.5
STC30N-60-M14M	32	30	4	M14X1.5M	28	12		17	9.5
STC30N-60-RA	32	30	4		33	4.7	32		9.5
STC40N-60-G1/4F	42	40	4	G1/4F	28.5	12		17	10
STC40N-60-G1/4M	42	40	4	G1/4M	28.5	12		17	10
STC40N-60-G3/8F	42	40	4	G3/8F	42.5	11		22	10
STC40N-60-M10M	42	40	4	M10M	21.5	12		17	10
STC40N-60-M14M	42	40	4	M14M	21.5	12		17	10
STC40N-60-RA	42	40	4		33.5	4.7	32		10
STC50N-60-G1/4F	52	50	6	G1/4F	51	11		22	11.5
STC50N-60-G1/4M	52	50	6	G1/4M	37	12		22	11.5
STC50N-60-G3/8F	52	50	6	G3/8F	37	15		22	11.5
STC50N-60-M10M	52	50	4	M10M	37	12		22	11.5
STC50N-60-M14M	52	50	6	M14M	37	12		22	11.5
STC50N-60-RA	52	50	6	1	42	4.7	32		11.5
STC60N-60-G1/4F	62.5	60	6	G1/4F	55	11		22	14.5
STC60N-60-G1/4M	62.5	60	6	G1/4M	41	12		22	14.5
STC60N-60-G3/8F	62.5	60	6	G3/8F	41	15		22	14.5
STC60N-60-M10M	62.5	60	4	M10M	41	12		22	14.5
STC60N-60-M14M	62.5	60	6	M14M	41	12		22	14.5
STC60N-60-RA	62.5	60	6	11	46	4.7	32		14.5
STC80N-60-G1/4F	82	80	6	G1/4F	64.5	11		22	22.5
STC80N-60-G1/4M	82	80	6	G1/4M	50.5	12		22	22.5
STC80N-60-G3/8F	82	80	6	G3/8F	50.5	15		22	22.5
STC80N-60-M10M	82	80	4	M10M	50.5	12		22	22.5
STC80N-60-M14M	82	80	6	M14M	50.5	12		22	22.5
STC80N-60-RA	82	80	6		55.5	4.7	32		22.5
STC100N-60-G1/4F	102.5	100	6	G1/4F	70	11		22	25
STC100N-60-G1/4M	102.5	100	6	G1/4M	56	12		22	25
STC100N-60-G3/8F	102.5	100	6	G3/8F	56	15		22	25
STC100N-60-M10M	102.5	100	4	M10M	56	12		22	25
STC100N-60-M14M	102.5	100	6	M14M	56	12		22	25
STC100N-60-RA	102.5	100	6		61.5	4.7	32		25

Spring Plunger Fittings for Vacuum Pads



- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- ♦ Large inner support structure, protects the metal sheets from deformation and damage during handling process
- ♦ Slot structure efficiently increases the friction force between vacuum pad and workpiece in order to prevent the oily metal sheets from slipping during the process of handling
- ♦Two material shore hardness are available(45 shore and 60 shore), suitable for metal sheets with different thickness and shapes
- ♦ Vacuum pads are available with various connection types



Applications

- ♦ Car stamped steel
- ♦Steel plates with oily surface
- ♦ Handling normal sheet metal (in order to avoid deformation)

Model

Model	Diameter(mm)	Material and Hardness	Connection thread
SFF	30 40 50 60 80 100	N-45(Green)(N-NBR) N-60(Orange)(N-NBR)	G1/4M (M-Male thread) G1/4F (F-Female thread) G3/8F M10M M14X1.5M RA Rectangular adapter

△SFF80N-60-G3/8F

How to order

Connection Model	G1/4M (Male thread)	G1/4F (Female thread)	G3/8F (Female thread)	M10M (Male thread)	M14X1.5M (Male thread)	RA Rectangular adapter
SFF30N-45	201.0340.0102	201.0340.1102	201.0340.1103	201.0340.0210	201.0340.0214	201.0340.0932
SFF30N-60	201.0360.0102	201.0360.1102	201.0360.1103	201.0360.0210	201.0360.0214	201.0360.0932
SFF40N-45	201.0440.0102	201.0440.1102	201.0440.1103	201.0440.0210	201.0440.0214	201.0440.0932
SFF40N-60	201.0460.0102	201.0460.1102	201.0460.1103	201.0460.0210	201.0460.0214	201.0460.0932
SFF50N-45	201.0540.0102	201.0540.1102	201.0540.1103	201.0540.0210	201.0540.0214	201.0540.0932
SFF50N-60	201.0560.0102	201.0560.1102	201.0560.1103	201.0560.0210	201.0560.0214	201.0560.0932
SFF60N-45	201.0640.0102	201.0640.1102	201.0640.1103	201.0640.0210	201.0640.0214	201.0640.0932
SFF60N-60	201.0660.0102	201.0660.1102	201.0660.1103	201.0660.0210	201.0660.0214	201.0660.0932
SFF80N-45	201.0840.0102	201.0840.1102	201.0840.1103	201.0840.0210	201.0840.0214	201.0840.0932
SFF80N-60	201.0860.0102	201.0860.1102	201.0860.1103	201.0860.0210	201.0860.0214	201.0860.0932
SFF100N-45	201.1040.0102	201.1040.1102	201.1040.1103	201.1040.0210	201.1040.0214	201.1040.0932
SFF100N-60	201.1060.0102	201.1060.1102	201.1060.1103	201.1060.0210	201.1060.0214	201.1060.0932

TXC
TXM
SNP
SOP
SB
SBF
SBL
SBLP

SF

SU STC

SOB SOF SOG SFP SBP SXP SGP

SH SHB

AZP

AZPT AZPR

SPAG SPCG SPFG SPJG

SPJG (No-mark) SPS SPUG

Bulkhead Connector

Ball Joint

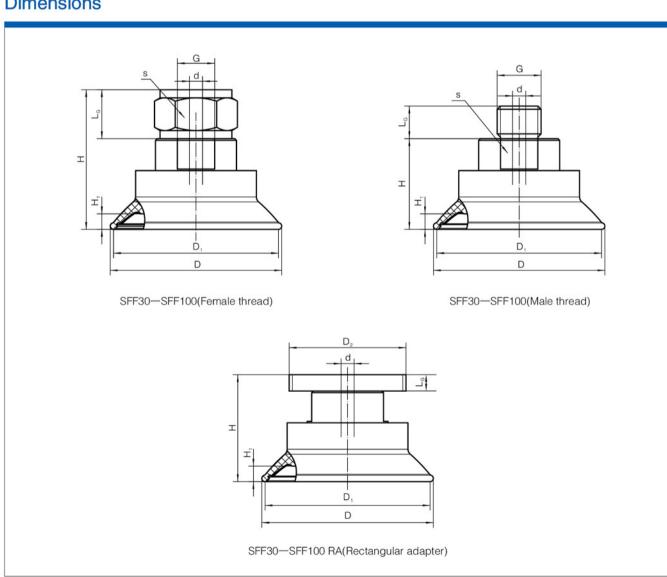
Technical parameters

Model	Vertical pull-out force (N) -60kPa	Lateral pull-out force (N) -60kPa	Lateral pull-out force on oily surface (N) -60kPa	Inner volume (cm³)	Min. curve radius of workpiece (cm)	Recommended tube Diameter (mm)	Weight (g)
SFF30	45	35	33	1.6	35	4	11-21
SFF40	72	54	51	3.5	47.5	4	13-23
SFF50	112	90	86	7.5	70	6	20-30
SFF60	145	102	93	12.6	81	6	26-36
SFF80	288	212	190	35	115	6	43-53
SFF100	445	322	308	60	141	6	57-67

 \triangle Workpiece is with smooth, dry surface, the above pull-out force datas don't include a safety factor.

Values may change according to different workpiece surfaces.

Dimensions





Dimensions

0: ()									
Size (mm) Model	D	D ₁	d	G	Н	L _G	D ₂	S	H ₁
SFF30N-45-G1/4F	32	30	4	G1/4F	20	12		17	2.7
SFF30N-45-G1/4M	32	30	4	G1/4M	20	12		17	2.7
SFF30N-45-G3/8F	32	30	4	G3/8F	34	11		22	2.7
SFF30N-45-M10M	32	30	4	M10M	20	12		17	2.7
SFF30N-45-M14M	32	30	4	M14X1.5M	20	12		17	2.7
SFF30N-45-RA	32	30	4		25	4.7	32		2.7
SFF40N-45-G1/4F	42	40	4	G1/4F	22	12		17	3.7
SFF40N-45-G1/4M	42	40	4	G1/4M	22	12		17	3.7
SFF40N-45-G3/8F	42	40	4	G3/8F	36	11		22	3.7
SFF40N-45-M10M	42	40	4	M10M	22	12		17	3.7
SFF40N-45-M14M	42	40	4	M14M	22	12		17	3.7
SFF40N-45-RA	42	40	4		27	4.7	32		3.7
SFF50N-45-G1/4F	52	50	6	G1/4F	42	11		22	4.7
SFF50N-45-G1/4M	52	50	6	G1/4M	28	12		22	4.7
SFF50N-45-G3/8F	52	50	6	G3/8F	28	15		22	4.7
SFF50N-45-M10M	52	50	4	M10M	28	12		22	4.7
SFF50N-45-M14M	52	50	6	M14M	28	12	1	22	4.7
SFF50N-45-RA	52	50	6		33	4.7	32		4.7
SFF60N-45-G1/4F	62.5	60	6	G1/4F	45	11		22	6
SFF60N-45-G1/4M	62.5	60	6	G1/4M	31	12		22	6
SFF60N-45-G3/8F	62.5	60	6	G3/8F	31	15		22	6
SFF60N-45-M10M	62.5	60	4	M10M	31	12		22	6
SFF60N-45-M14M	62.5	60	6	M14M	31	12		22	6
SFF60N-45-RA	62.5	60	6		36	4.7	32		6
SFF80N-45-G1/4F	82	80	6	G1/4F	48	11		22	7.5
SFF80N-45-G1/4M	82	80	6	G1/4M	34	12		22	7.5
SFF80N-45-G3/8F	82	80	6	G3/8F	34	15		22	7.5
SFF80N-45-M10M	82	80	4	M10M	34	12		22	7.5
SFF80N-45-M14M	82	80	6	M14M	34	12		22	7.5
SFF80N-45-RA	82	80	6		39	4.7	32		7.5
SFF100N-45-G1/4F	103	100	6	G1/4F	50	11		22	9.2
SFF100N-45-G1/4M	103	100	6	G1/4M	36	12		22	9.2
SFF100N-45-G3/8F	103	100	6	G3/8F	36	15	1	22	9.2
SFF100N-45-M10M	103	100	4	M10M	36	12		22	9.2
SFF100N-45-M14M	103	100	6	M14M	36	12		22	9.2
SFF100N-45-RA	103	100	6	7	41	4.7	32		9.2

AIRBEST

Features

- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- ♦ Large inner support structure, protects the metal sheets from deformation and damage during handling process
- ♦ Slot structure efficiently increases the friction force between vacuum pad and workpiece in order to prevent the oily metal sheets from slipping during the process of handling
- ♦Flat, oval vacuum pad is suitable for long and narrow workpieces
- 1.5 bellows structure has good sealing and buffer to workpiece with uneven surface
- ♦ Vacuum pads are available with various connection types



Applications

- ♦Steel plates with oily surface
- ♦Long and narrow metal sheet parts
- ♦ Handling normal sheet metal (in order to avoid deformation)

Model

Model	Diameter(mm)	Material and Hardness	Connection thread
SOB	30 × 60 40 × 80 55 × 110 70 × 140	N-60(Orange)(N-NBR)	G1/4M (M-Male thread) G1/4F (F-Female thread) G3/8F M10M M14X1.5M RA Rectangular adapter

△SOB30X60N-60-G3/8F

How to order

Connection Model	G1/4M (Male thread)	G1/4F (Female thread)	G3/8F (Female thread)	M10M (Male thread)	M14X1.5M (Male thread)	RA Rectangular adapter
SOB30X60N-60	203.0660.0102	203.0660.1102	203.0660.1106	203.0660.0210	203.0660.0214	203.0660.0932
SOB40X80N-60	203.0860.0102	203.0860.1102	203.0860.1106	203.0860.0210	203.0860.0214	203.0860.0932
SOB55X110N-60	203.1160.0102	203.1160.1102	203.1160.1106	203.1160.0210	203.1160.0214	203.1160.0932
SOB70X140N-60	203.1460.0102	203.1460.1102	203.1460.1106	203.1460.0210	203.1460.0214	203.1460.0932

Technical parameters

Model	Vertical pull-out force (N) -60kPa	Lateral pull-out force (N) -60kPa	Lateral pull-out force on oily surface (N) -60kPa	Inner volume (cm³)	Min. curve radius of workpiece (cm)	Recommended tube Diameter (mm)	Weight (g)
SOB30X60	53	60	50	8.7	25	4	26
SOB40X80	110	118	101	22	32	6	33
SOB55X110	197	200	183	57	48	6	75
SOB70X140	275	295	267	108	64	6	117

 $[\]triangle$ Workpiece is with smooth, dry surface, the above pull-out force datas don't include a safety factor. Values may change according to different workpiece surfaces.

TXC

SNP

SOP

SBF

SBL

SF

SU

SFF

SOB

SOG

SBP

SGP SD

SH

SHB

AZPT

AZPR SPAG SPCG

SPFG SPJG

SPJG (No-mark)

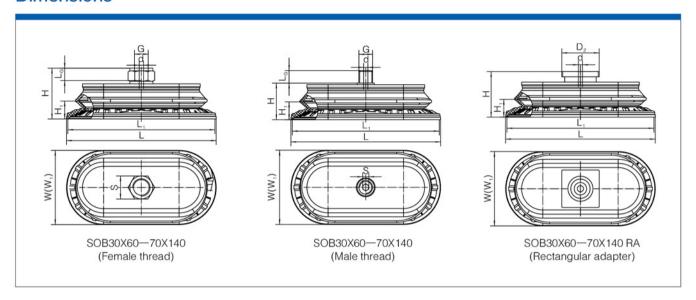
SPUG SNT

Spring Plung
Fittings for
Vacuum Pads
BH

Bulkhead Connector



Dimensions



Size (mm) Model	L	L ₁	W	W ₁	d	G	Н	L _G	D ₂	S	H ₁
SOB30X60N-60-G1/4F	62	60	32	30	6	G1/4F	34	11		20	6
SOB30X60N-60-G1/4M	62	60	32	30	6	G1/4M	21.5	12		6	6
SOB30X60N-60-G3/8F	62	60	32	30	6	G3/8F	34	11	1	22	6
SOB30X60N-60-M10M	62	60	32	30	4	M10M	21.5	12		4	6
SOB30X60N-60-M14M	62	60	32	30	6	M14X1.5M	21.5	12		6	6
SOB30X60N-60-RA	62	60	32	30	6		29		32		6
SOB40X80N-60-G1/4F	82	80	42	40	6	G1/4F	37	11		20	8.8
SOB40X80N-60-G1/4M	82	80	42	40	6	G1/4M	24.5	12		6	8.8
SOB40X80N-60-G3/8F	82	80	42	40	6	G3/8F	37	11		22	8.8
SOB40X80N-60-M10M	82	80	42	40	4	M10M	24.5	12	1-1-11	4	8.8
SOB40X80N-60-M14M	82	80	42	40	6	M14X1.5M	24.5	12		6	8.8
SOB40X80N-60-RA	82	80	42	40	6		42		32		8.8
SOB55X110N-60-G1/4F	112	110	57	55	6	G1/4F	43	11		20	12.5
SOB55X110N-60-G1/4M	112	110	57	55	6	G1/4M	30.5	12		6	12.5
SOB55X110N-60-G3/8F	112	110	57	55	6	G3/8F	43	11		22	12.5
SOB55X110N-60-M10M	112	110	57	55	4	M10M	30.5	12	1	4	12.5
SOB55X110N-60-M14M	112	110	57	55	6	M14X1.5M	30.5	12		6	12.5
SOB55X110N-60-RA	112	110	57	55	6		38		32		12.5
SOB70X140N-60-G1/4F	143	140	72	69	6	G1/4F	47.5	11		20	17
SOB70X140N-60-G1/4M	143	140	72	69	6	G1/4M	35	12		6	17
SOB70X140N-60-G3/8F	143	140	72	69	6	G3/8F	47.5	11		22	17
SOB70X140N-60-M10M	143	140	72	69	4	M10M	35	12		4	17
SOB70X140N-60-M14M	143	140	72	69	6	M14X1.5M	35	12		6	17
SOB70X140N-60-RA	143	140	72	69	6		42.5		32		17

AIRBEST

Features

- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- Large inner support structure, protects the metal sheets from deformation and damage during handling process
- ♦ Slot structure efficiently increases the friction force between vacuum pad and workpiece in order to prevent the oily metal sheets from slipping during the process of handling
- ♦Flat, oval vacuum pad is suitable for long and narrow workpieces
- ♦Two material shore hardness are available(45 shore and 60 shore), suitable for metal sheets with different thickness and shapes
- ♦ Vacuum pads are available with various connection types



Applications

- ♦Steel plates with oily surface
- ♦Long and narrow metal sheet parts
- ♦ Handling normal sheet metal (in order to avoid deformation)

Model

Model	Diameter(mm)	Material and Hardness	Connection thread
SOF	20 × 80 30 × 90 40 × 110	N-45(Green)(N-NBR) N-60(Orange)(N-NBR)	G1/4M (M-Male thread) G1/4F (F-Female thread) G3/8F M10M M14X1.5M RA Rectangular adapter

△SOF20X80N-60-G3/8F

How to order

Connection	G1/4M	G1/4F	G3/8F	M10M	M14X1.5M	RA
Model	(Male thread)	(Female thread)	(Female thread)	(Male thread)	(Male thread)	Rectangular adapter
SOF20X80N-45	204.0640.0102	204.0640.1102	204.0640.1106	204.0640.0210	204.0640.0214	204.0640.0932
SOF20X80N-60	204.0660.0102	204.0660.1102	204.0660.1106	204.0660.0210	204.0660.0214	204.0660.0932
SOF30X90N-45	204.0940.0102	204.0940.1102	204.0940.1106	204.0940.0210	204.0940.0214	204.0940.0932
SOF30X90N-60	204.0960.0102	204.0960.1102	204.0960.1106	204.0960.0210	204.0960.0214	204.0960.0932
SOF40X110N-45	204.1140.0102	204.1140.1102	204.1140.1106	204.1140.0210	204.1140.0214	204.1140.0932
SOF40X110N-60	204.1160.0102	204.1160.1102	204.1160.1106	204.1160.0210	204.1160.0214	204.1160.0932

Technical parameters

Model	Vertical pull-out force (N) -60kPa	Lateral pull-out force (N) -60kPa	Lateral pull-out force on oily surface (N) -60kPa	Inner volume (cm³)	Min. curve radius of workpiece (cm)	Recommended tube Diameter (mm)	Weight (g)
SOF20X80	75	38	35	15	20	4	23
SOF30X90	120	77	60	18	25	6	24
SOF40X110	200	188	118	35	42	6	47

 \triangle Workpiece is with smooth, dry surface, the above pull-out force datas don't include a safety factor. Values may change according to different workpiece surfaces.

TXC

SNP

SOP

SBF

SBL

SF

SU

STC

SOB

SOF SOG

SFP

SXP

SD

SH

AZP AZPT

AZPR SPAG

SPCG SPFG SPJG

SPJG (No-mark)

SPS SPUG

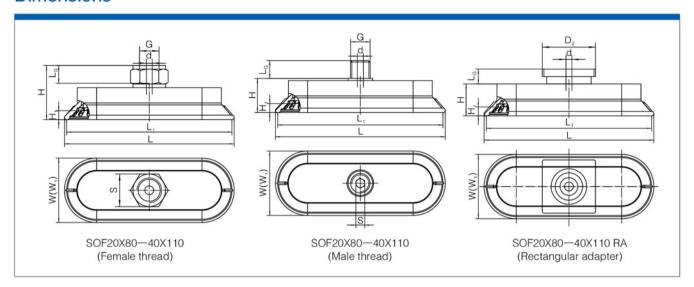
SNT

Spring Plung Fittings for Vacuum Pads

BH Bulkhead Connector



Dimensions



Size (mm)		7	W	\\\	d	G	Н		_	S	ш
Model		L ₁	VV	W ₁	u	G	П	L _G	D ₂	3	H ₁
SOF20X80N-45-G1/4F	84	82	24	22	6	G1/4F	29.5	11		20	5
SOF20X80N-45-G1/4M	84	82	24	22	6	G1/4M	17	12		6	5
SOF20X80N-45-G3/8F	84	82	24	22	6	G3/8F	29.5	11		22	5
SOF20X80N-45-M10M	84	82	24	22	4	M10M	17	12		4	5
SOF20X80N-45-M14M	84	82	24	22	6	M14X1.5M	17	12		6	5
SOF20X80N-45-RA	84	82	24	22	6		24.5		32		5
SOF30X90N-45-G1/4F	93	90	33	30	6	G1/4F	30	11		20	5
SOF30X90N-45-G1/4M	93	90	33	30	6	G1/4M	17.5	12		6	5
SOF30X90N-45-G3/8F	93	90	33	30	6	G3/8F	30	11		22	5
SOF30X90N-45-M10M	93	90	33	30	4	M10M	17.5	12		4	5
SOF30X90N-45-M14M	93	90	33	30	6	M14X1.5M	17.5	12		6	5
SOF30X90N-45-RA	93	90	33	30	6		25		32		5
SOF40X110N-45-G1/4F	113	110	43	40	6	G1/4F	35.5	11		20	6
SOF40X110N-45-G1/4M	113	110	43	40	6	G1/4M	23	12		6	6
SOF40X110N-45-G3/8F	113	110	43	40	6	G3/8F	35.5	11		22	6
SOF40X110N-45-M10M	113	110	43	40	4	M10M	23	12		4	6
SOF40X110N-45-M14M	113	110	43	40	6	M14X1.5M	23	12		6	6
SOF40X110N-45-RA	113	110	43	40	6		30.5		32		6

AIRBEST

Features

- ♦ Softy and concave oval structure give no damage to the workpiece surface
- ♦ Slot structure increases the friction force between vacuum pad and workpiece
- ♦ Concave oval vacuum pad is suitable for thin, long cylindrical surface and curved workpiece



Applications

- ♦ Handling long, thin tube and curved workpiece
- ♦ For narrow, long workpiece with small curved radius

Model

Model	Diameter(mm)	Material and Hardness	Connection thread
SOG	35×100	N-45(Green)(N-NBR)	G1/4M (M-Male thread) G1/4F (F-Female thread) G3/8F M10M M14X1.5M RA Rectangular adapter

△SOG 35X110N-45-G3/8F

How to order

Connection	G1/4M	G1/4F	G3/8F	M10M	M14X1.5M	RA
Model	(Male thread)	(Female thread)	(Female thread)	(Male thread)	(Male thread)	Rectangular adapter
SOG35X100N-45	209.1040.0102	209.1040.1102	209.1040.1103	209.1040.0210	209.1040.0214	209.1040.0932

Technical parameters

Model	Vertical pull-out force (N) -60kPa	Lateral pull-out force (N) -60kPa	Inner volume (cm³)	Min. curve radius of workpiece (cm)	Recommended tube Diameter (mm)	Weight (g)
SOG35X100	122	87	11	25	6	37

 \triangle Workpiece is with smooth, dry surface, the above pull-out force datas don't include a safety factor. Values may change according to different workpiece surfaces.

TXC

SNP

SOP

SBF

SBL

SF

SU

STC

SOB SOF

SOG

SFP SBP

SXP

SGP

SD SH

SHB

AZP

AZPT AZPR

SPAG SPCG

SPFG SPJG

SPJG (No-mark)

SPS

SPUG

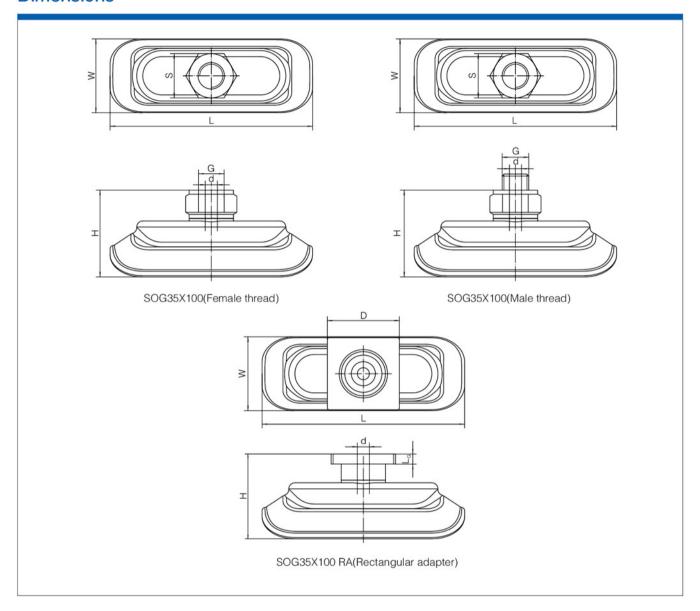
Spring Plung

Fittings for Vacuum Pads

Bulkhead Connector



Dimensions

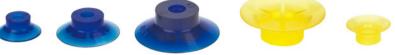


Size (mm)	L	W	d	G	Н	L _G	S
SOG22N-45-G1/4F	100	35	6	G1/4F	52	11	22
SOG22N-45-G1/4M	100	35	6	G1/4M	37.5	8	
SOG22N-45-G3/8F	100	35	6	G3/8F	52	11	22
SOG22N-45-M10M	100	35	4	M10M	50	8	22
SOG22N-45-M14M	100	35	6	M14X1.5M	50	8	22
SOG22N-45-RA	100	35	6		42.5	4.7	32

AIRBEST

Features

- ☆PU material, suitable for carton boxes and flat surface workpiece. The big advantage is that pu material lasts more or less 3-4 times longer than rubber.
- ☆Good flexibility.
- ☆Good wear resistance and oil resistance.
- ☆ High tensile strength.





Model

Model	Diameter (mm)	Connection thread	Shore hardness (color)
	20	18F(G1/8Female thread)	Material: PU Shore hardness 40 (Yellow)
SFP	30	· · · · · · · · · · · · · · · · · · ·	
	40	18M(G1/8Male thread)	Material: PU Shore hardness 60 (Blue)

How to Order

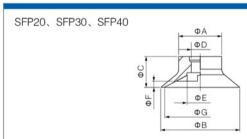
SFP20-20-18F (1): Model; 2): Shore hardness; 3): Connection thread;)

Hardness	Without fitting	18F	18M
40	220.2001.0000	220.2021.0000	220.2031.0000
60	220.2002.0000	220.2022.0000	220.2032.0000
40	220.3001.0000	220.3021.0000	220.3031.0000
60	220.3002.0000	220.3022.0000	220.3032.0000
40	220.4001.0000	220.4021.0000	220.4031.0000
60	220.4002.0000	220.4022.0000	220.4032.0000
	40 60 40 60 40	40 220.2001.0000 60 220.2002.0000 40 220.3001.0000 60 220.3002.0000 40 220.4001.0000	40 220.2001.0000 220.2021.0000 60 220.2002.0000 220.2022.0000 40 220.3001.0000 220.3021.0000 60 220.3002.0000 220.3022.0000 40 220.4001.0000 220.4021.0000

Connection thread	Ordering code
18F(G1/8Female thread)	10.018.0013
18M(G1/8Male thread)	10.018.0012

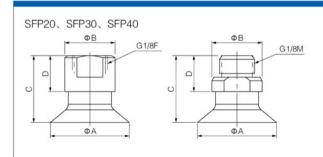
*Refer to the fittings for vacuum pads on page 208-211.

Pad without fitting dimensions (mm)



						, c	
Model	Α	В	С	D	E	F	G
SFP20	12	22	8.6	5	7.5	1.6	20
SFP30	15.8	31	10.5	5	7.5	2	30
SFP40	21	41	14	6.5	10	2.5	40

Pad with fitting dimensions (mm)



Model	Α	В	С	D
SFP20	22	14	18.6	10
SFP30	31	14	20.5	10
SFP40	41	14	24	10

TXM SNP

TXC

SOP

SB SBF

SBL

SBLP

SF SU

STC

SFF

SOB

SOF

SOG SFP

SBP

SXP

SGP

SD

SH

SHB

AZP

AZPT

AZPR

SPAG

SPCG

SPFG

SPJG

SPS

SPUG

Bulkhead Connector



- ☆ 1.5 bellows vacuum pad.
- ☆PU material, long lifetime, it lasts more or less 3-4 times longer than other material, less down time.
- ☆Good flexibility.
- ☆Good wear resistance and oil resistance.
- ☆ High tensile strength.



Model

Model	Diameter(mm)	Connection thread	Shore hardness (color)		
	10	M5-5(M5 Male thread)	5000 NO. 10000 NO. 10000		
1	15	INIS-S(INIS Male tillead)	Material: PU		
	20	18M(G1/8 Male thread)	Shore hardness 30/60 (L Blue/D Blue)		
000	30	18F(G1/8 Female thread)	Material: PU		
SBP	40	Tor(GT/o Female tillead)	Shore hardness 60 (D Blue)		
	50	38M(G3/8 Male thread) 38F(G3/8 Female thread)	Material: PU		
	70	38M(G3/8 Male thread) 38F(G3/8 Female thread)	Shore hardness 40 (Yellow)		
	70	38F(NPSF3/8 Female thread)	,		

How to Order

 $SBP20-40-18F \hspace{0.2cm} \textbf{(1): Model; (2): Shore hardness; (3): Connection thread;)} \\$

Model	Hardness	Without fitting	M5-M	18F	18M	38F	38M	38F(SBP70)	38M(SBP70)	NPSF38F
SBP10	30/60	221.1001.0000	221.1011.0000							
SBP10	60	221.1002.0000	221.1012.0000							
SBP10	40	221.1003.0000	221.1013.0000			:			·	
SBP15	30/60	221.1501.0000	221.1511.0000							
SBP15	60	221.1502.0000	221.1512.0000						·	
SBP15	40	221.1503.0000	221.1513.0000			b		1	1	1
SBP20	30/60	221.2001.0000		221.2021.0000	221.2031.0000	77			;	
SBP20	60	221.2002.0000	22	221.2022.0000	221.2032.0000	9			1	
SBP20	40	221.2003.0000	22	221.2023.0000	221.2033.0000	0			1	
SBP30	30/60	221.3001.0000		221.3021.0000	221.3031.0000				1,	
SBP30	60	221.3002.0000	S	221.3022.0000	221.3032.0000					
SBP30	40	221.3003.0000		221.3023.0000	221.3033.0000				·	
SBP40	30/60	221.4001.0000		221.4021.0000	221.4031.0000				:	
SBP40	60	221.4002.0000		221.4022.0000	221.4032.0000	/s==			2.55	
SBP40	40	221.4003.0000		221.4023.0000	221.4033.0000					
SBP50	30/60	221.5001.0000				221.5061.0000	221.5071.0000			
SBP50	60	221.5002.0000				221.5062.0000	221.5072.0000			
SBP50	40	221.5003.0000				221.5063.0000	221.5073.0000			
SBP70	30/60	221.7001.0000	122	227		922		221.7081.0000	122	
SBP70	30/60				122		122			221.7101.0000
SBP70	30/60					(22			221.7091.0000	
SBP70	60	221.7002.0000				22-		221.7082.0000		
SBP70	60					S=-				221.7102.0000
SBP70	60					2==			221.7092.0000	
SBP70	40	221.7003.0000						221.7083.0000		
SBP70	40					8				221.7103.0000
SBP70	40								221.7093.0000	

Vacuum Pads

TXC TXM

SNP

SOP

SB

SBF

SBL SBLP

SF

SU

STC

SFF

SOB SOF

SOG

SFP

SBP SXP

SGP

SD

SH

SHB AZP

AZPT

AZPR

SPAG

SPCG

SPFG

SPJG

SPS

SPUG

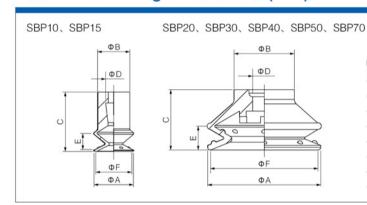
Ball Joint



Connection thread	Ordering code
M5-5(M5 Male thread)	10.005.0009
18F(G1/8 Female thread)	10.018.0013
18M(G1/8 Male thread)	10.018.0012
38F(G3/8 Female thread)	10.038.0004
38M(G3/8 Male thread)	10.038.0003
38F(SBP70)(G3/8 Female thread)	10.038.0005
38M(SBP70)(G3/8 Male thread)	10.038.0006
NPSF38F(NPSF3/8 Female thread)	10.038.0007

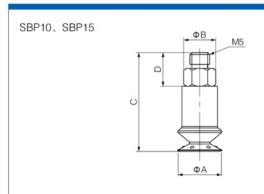
^{*}Refer to the fittings for vacuum pads on page 208-211.

Pad without fitting dimensions (mm)

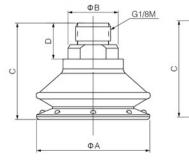


				-1.	4	
Model	А	В	С	D	E	F
SBP10	10.9	9	16.5	5	5	10
SBP15	16	9	19	5.5	5.8	15
SBP20	21	12	18	5	7.5	20
SBP30	31.5	16.8	16.8	6.5	6.6	30
SBP40	42	22.4	22.4	6.5	8.8	40
SBP50	52.5	28	29.3	10.5	12.3	50
SBP70	73	42	35.5	20	16.5	70

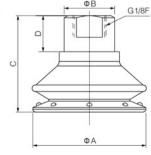
Pad with fitting dimensions (mm)



Model	А	В	С	D
SBP10	10.9	7	25.5	9
SBP15	16	7	28	9



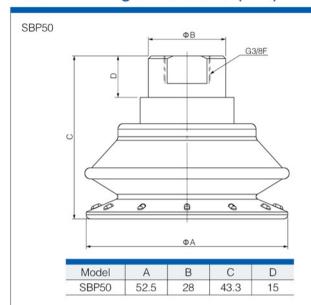
SBP20、SBP30、SBP40

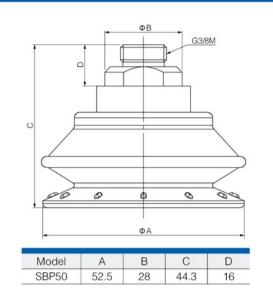


Model	Α	В	С	D
SBP20	21	14	28	10
SBP30 31.5		14	26.8	10
SBP40	42	14	32.4	10

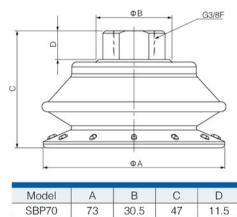


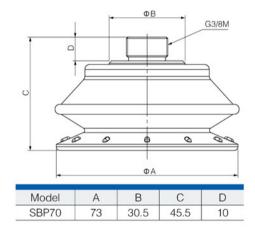
Pad with fitting dimensions (mm)











	0	ФВ ФА	0	NPSF3/8F
Model	Α	В	С	D
SBP70	73	30.5	47	11.5

- ☆2.5 bellows vacuum pad.
- ☆PU material, long lifetime, it lasts more or less 3-4 times longer than other material, less down time.
- ☆Good flexibility.
- ☆Good wear resistance and oil resistance.
- ☆ High tensile strength.



Model

Model	Diameter(mm)	Connection thread	Shore hardness (color)
20			
	25	18M(G1/8 Male thread) 18F(G1/8 Female thread)	Material: PU
	30		Shore hardness 30/60 (L Blue/D Blue)
OVD	35	14M(G1/4 Male thread) 14F(G1/4 Female thread)	Material: PU
SXP	40	14M(G1/4 Male tillead) 14F(G1/4 Female tillead)	Shore hardness 60 (D Blue)
	50	38M(G3/8 Male thread) 38F(G3/8 Female thread)	Material: PU
70		38M(G3/8 Male thread) 38F(G3/8 Female thread)	Shore hardness 55 (Green)
	/0	38F(NPSF3/8 Female thread)	

How to Order

 $\textbf{SXP20-60-18F} \, (\textbf{\textcircled{1}}: \, \textbf{Model}; \, \textbf{\textcircled{2}}: \, \textbf{Shore hardness}; \, \textbf{\textcircled{3}}: \, \textbf{Connection thread};)$

Model	Hardness	Without fitting	18F	18M	14F	14M	38F	38M	38F (SXP70)	38M (SXP70)	NPSF38F
SXP20	30/60	222.2001.0000	222.2021.0000	222.2031.0000							
SXP20	60	222.2002.0000	222.2022.0000	222.2032.0000							
SXP20	55	222.2003.0000	222.2023.0000	222.2033.0000							
SXP25	30/60	222.2501.0000	222.2521.0000	222.2531.0000							
SXP25	60	222.2502.0000	222.2522.0000	222.2532.0000							
SXP25	55	222.2503.0000	222.2523.0000	222.2533.0000							
SXP30	30/60	222.3001.0000	222.3021.0000	222.3031.0000							
SXP30	60	222.3002.0000	222.3022.0000	222.3032.0000							
SXP30	55	222.3003.0000	222.3023.0000	222.3033.0000							
SXP35	30/60	222.3501.0000			222.3541.0000	222.3551.0000					
SXP35	60	222.3502.0000			222.3542.0000	222.3552.0000					
SXP35	55	222.3503.0000			222.3543.0000	222.3553.0000					
SXP40	30/60	222.4001.0000			222.4041.0000	222.4051.0000					
SXP40	60	222.4002.0000			222.4042.0000	222.4052.0000					
SXP40	55	222.4003.0000			222.4043.0000	222.4053.0000					
SXP50	30/60	222.5001.0000					222.5061.0000	222.5071.0000			
SXP50	60	222.5002.0000					222.5062.0000	222.5072.0000			
SXP50	55	222.5003.0000	770				222.5063.0000	222.5073.0000			
SXP70	30/60	222.7001.0000				1.55			222.7081.0000		
SXP70	30/60					1.55					222.7101.000
SXP70	30/60									222.7091.0000	
SXP70	60	222.7002.0000							222.7082.0000		
SXP70	60										222.7102.000
SXP70	60	122	22	222	22	122			222	222.7092.0000	122
SXP70	55	222.7003.0000							222.7083.0000		
SXP70	55										222.7103.000
SXP70	55	122	22							222.7093.0000	

Connection thread	Ordering code
18F (G1/8 Female thread)	10.018.0013
18M (G1/8 Male thread)	10.018.0012
14F (G1/4 Female thread)	10.014.0005
14M (G1/4 Male thread)	10.014.0004
38F (G3/8 Female thread)	10.038.0004
38M (G3/8 Male thread)	10.038.0003
38F(SXP70) (G3/8 Female thread)	10.038.0005
38M(SXP70) (G3/8 Male thread)	10.038.0006
NPSF38F (NPSF3/8 Female thread)	10.038.0007

*Refer to the fittings for vacuum pads on page 208–211.

TXC

SNP

SOP

SB SBF

SBL

SBLP

SF

SU

STC

SFF

SOB

SOG

SFP

SBP

SXP

SGP SD

SH SHB

AZP AZPT

AZPR SPAG

SPCG

SPFG SPJG

SPJG (No-mark)

SPS SPUG

SPUG

SNT

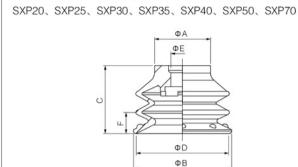
Spring Plunger Fittings for Vacuum Pads

ВН

Bulkhead Connector Ball Joint



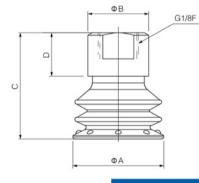
Pad without fitting dimensions (mm)

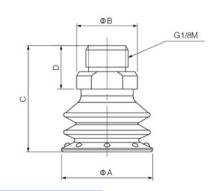


Model	А	В	С	D	E	F
SXP20	12	21	29	20	5	4.5
SXP25	15.4	26	18.9	24.4	5	7.3
SXP30	16.5	30	21.3	28	5	8
SXP35	21	35	25.3	33	6.5	9.8
SXP40	22	40	28.4	37.5	6.5	10.6
SXP50	27.5	50	35.5	47	10.5	13.4
SXP70	38.5	70	47.5	66	13	18.6

Pad with fitting dimensions (mm)

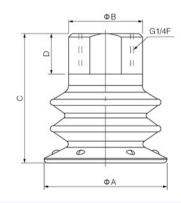




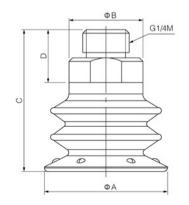


Model	А	В	С	D
SXP20	21	14	39	10
SXP25	26	14	28.9	10
SXP30	30	14	31.3	10

SXP35、SXP40



Model	Α	В	С	D
SXP35	35	21	36.8	11.5
SXP40	40	21	40	11.5



Model	Α	В	С	D
SXP35	35	21	40.3	15
SXP40	40	21	43.5	15

TXC

TXM SNP SOP SB SBF SBL SBLP

SF SU STC SFF

SOB

SOF SOG SFP SBP SXP SGP SD SH

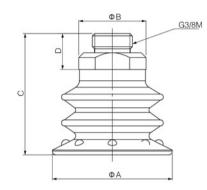
SHB AZP AZPT **AZPR** SPAG **SPCG**

SPFG SPJG

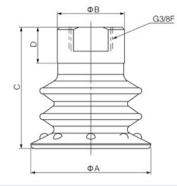
SPS **SPUG** SNT Spring Plunger

AIRBEST



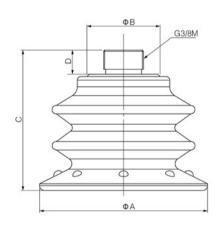


	V. 72		3 3		
Model	Α	В	С	D	
SXP50	50	18	51.5	16	

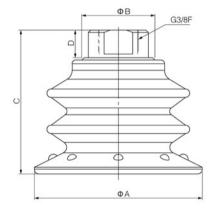


Model	А	В	C	D
SXP50	50	18	50.5	15

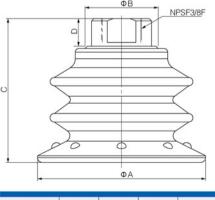
SXP70



	p(5)	eget s	4 2	
Model	Α	В	С	D
SXP70	70	30.5	58.5	10



	100	100		22
Model	Α	В	С	D
SXP70	70	30.5	60	11.5



Model	Α	В	С	D
SXP70	70	30.5	60	11.5

Ball Joint

136



- ☆ PU material, long lifetime, it lasts more or less 3–4 times longer than other material, less down time. Suitable for uneven textured surfaces, also good in plastic industry.
- ☆Good flexibility.
- ☆Good wear resistance and oil resistance.
- ☆ High tensile strength.



Model

Model	Diameter(mm)	Connection thread	Shore hardness (color)		
	25		Material: PU Shore hardness 30/55 (Blue/Yellow)		
SGP	35	18M(G1/8 Male thread) 18F(G1/8 Female thread)			
SGF	45		Material: PU		
	55	38M(G3/8 Male thread) 38F(G3/8 Female thread)	Shore hardness 55 (Green)		

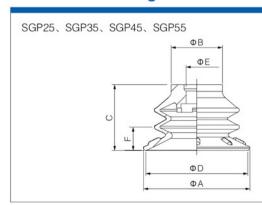
How to Order

Model	Hardness	Without fitting	18F	18M	38F	38M
SGP25	30/55	223.2501.0000	223.2521.0000	223.2531.0000		
SGP25	55	223.2502.0000	223.2522.0000	223.2532.0000	11	
SGP35	30/55	223.3501.0000	223.3521.0000	223.3531.0000	2	
SGP35	55	223.3502.0000	223.3522.0000	223.3532.0000		
SGP45	30/55	223.4501.0000	223.4521.0000	223.4531.0000	12-1	
SGP45	55	223.4502.0000	223.4522.0000	223.4532.0000	y>	
SGP55	30/55	223.5501.0000			223.5561.0000	223.5571.0000
SGP55	55	223.5502.0000			223.5562.0000	223.5572.0000

Connection thread	Ordering code
18F(G1/8 Female thread)	10.018.0013
18M(G1/8 Male thread)	10.018.0012
38F(G3/8 Female thread)	10.038.0004
38M(G3/8 Male thread)	10.038.0003

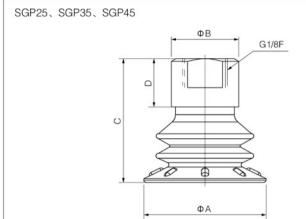
^{*}Refer to the fittings for vacuum pads on page 208-211.

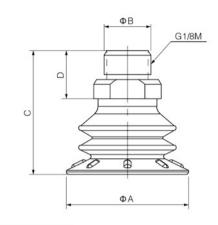
Pad without fitting dimensions (mm)



1	9	0	W 4	10 S	0.000	10.
Model	Α	В	С	D	E	F
SGP25	25	12	15.5	24	5	5.5
SGP35	35	16.5	22.3	33.4	5	8.4
SGP45	45	16.8	29.3	42.8	6.6	11.5
SGP55	55	27.5	36.3	52.4	10.5	12.9

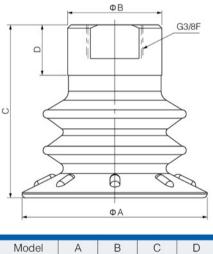
Pad with fitting dimensions (mm)





Model	А	В	С	D
SGP25	25	14	25.5	10
SGP35	35	14	32.3	10
SGP45	45	14	39.3	10

SGP55



28

51.3

SGP55

55

		ФВ ФА		G3/8M
Model	Α	В	С	D

			11-	
D	Model	Α	В	С
15	SGP55	55	28	52.3

TXC

SNP

SOP

SB SBF

SBL

SBLP

SF SU

STC

SFF

SOB

SOG

SBP

SXP

SGP

SD

SH

SHB

AZP

AZPT

AZPR

SPAG

SPCG SPFG

SPJG

SPJG (No-mark)

SPS

SPUG

SNT

Spring Plunger

Fittings for Vacuum Pads

Dulkhoo

Ball Joint



- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- ♦ Various materials are avaible, suitable for workpiece with different materials and different working conditions
- ♦Deep structure to avoid bulging of the workpiece, suitable for cakeshaped and ball-shaped workpiece



Applications

- ♦Food industry, cake-shaped objects e.g. chocolate, candies and so on
- ◇Ball-shaped objects

Model

Model	Diameter (mm)	Material
	10	N-NBR (Black)
92	16	S-Silicone(White)
SD	25	U-Urethane rubber
	40	F-Fluorine rubber

△SD10-N

How to order

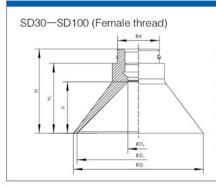
Material Model	N	S	U	F
SD10	211.1001.0000	211.1002.0000	211.1003.0000	211.1004.0000
SD16	211.1601.0000	211.1602.0000	211.1603.0000	211.1604.0000
SD25	211.2501.0000	211.2052.0000	211.2503.0000	211.2504.0000
SD40	211.4001.0000	211.4002.0000	211.4003.0000	211.4004.0000

Technical parameters

Model	Pull-out force N (-60kPa)	Inner volume (cm³)	Min. curve radius of workpiece (cm)	Recommended tube diameter (mm)
SD10	6.4	0.25	5.6	4
SD16	16.5	0.6	10	4
SD25	40	1.2	18	4
SD40	98	8.5	28	4

 $[\]triangle$ Workpiece is with smooth, dry surface, the above pull-out force datas don't include a safety factor. Values may change according to different workpiece surfaces.

Dimensions



Dimension(mm) Model	D	D ₁	D ₂	d	Н	H ₁	h
SD10-N	12	10	4	13	15	10.7	6
SD16-N	18	16	4	13	16	11.7	7
SD25-N	28	25	4	15	20	15.5	10
SD40-N	43.5	41	7	18	28	23.5	17

 \triangle Refer to the matched spring plungers on page 156–158

- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- ♦ Various materials are avaible, suitable for workpiece with different materials and different working conditions
- Heavy load design, suitable for heavy load handling in various industry







Model

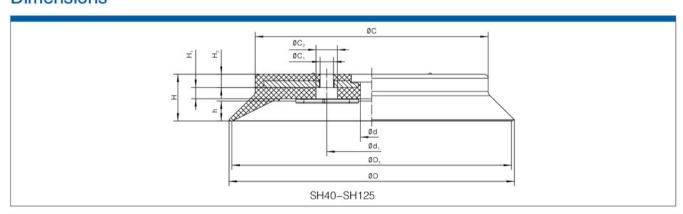
900 NA NO		
Model	Diameter (mm)	Material and Color
	40	
	50	
SH	63	N-NBR (Black) S-Silicone(White)
эп	80	S-Silicone(White)
	100	
	125	

△SH40N Pad material of urethane rubber and fluorine rubber need to be ordered seperately

How to order

Model Material	N	S
SH40	212.0401.0000	212.0402.0000
SH50	212.0501.0000	212.0502.0000
SH63	212.0601.0000	212.0602.0000
SH80	212.0801.0000	212.0802.0000
SH100	212.1001.0000	212.1002.0000
SH125	212.1201.0000	212.1202.0000

Dimensions



Dimension(mm) Model	D	D ₁	d	d₁	Н	H,	H ₂	h	С	C ₁	C ₂
SH40	42	40	6	18	11.5	3.5	3.5	3.5	32	4	6.5
SH50	52	50	6	18	11.5	3.5	3.5	3.5	42	4	6.5
SH63	65	63	8	34	14.5	4.5	4.5	3.5	64	5	8
SH80	82	80	8	34	16.5	4.5	4.5	4.5	68	5	8
SH100	103	100	10	40	21	5	6	7.5	80	6	9.5
SH125	127	125	10	40	21	5	6	7.5	104	6	9.5

TXC

SNP

SOP

SBF

SBL

SBLP SF

SU

STC

SFF

SOB

SOG

SFP

SXP

SGP SD

SH

SHB

AZP

AZPT

AZPR

SPAG SPCG

SPFG

SPJG

SPJG (No-mark)

SPS

SPUG

SNT

Spring Plunge Fittings for Vacuum Pads

ВН

Bulkhead Connector Ball Joint



- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- ♦ Various materials are available, suitable for workpiece with different materials and different working conditions
- Heavy load design, suitable for heavy load handling in various industry
- With spring plungers of different stroke, touch with the workpiece flexibly, it can adjust and compensate height differences of the workpiece timely



Model

Model	Diameter (mm)	Material and Color	Vacuum entry direction	Buffer stroke (mm)	Connection thread
40					
	50			25	
SH	63	N-NBR (Black)	Z-Vertical	50	M18-M18 × 1.5M
SH	80	S-Silicone(White)	X-Lateral	75	M22-M22 × 1.5M
100	100			100	
	125				

△SH40NZ-25-M18 M-Male thread F-Female thread Pad material of urethane rubber and fluorine rubber need to be ordered seperately

How to order

Buffer stroke Model	25mm	50mm	75mm	100mm
SH40NZ-M18	212.0411.1018	212.0411.2018	212.0411.3018	
SH40SZ-M18	212.0421.1018	212.0421.2018	212.0421.3018	
SH40NX-M18	212.0412.1018	212.0412.2018	212.0412.3018	
SH40SX-M18	212.0422.1018	212.0422.2018	212.0422.3018	12.2
SH50NZ-M18	212.0511.1018	212.0511.2018	212.0511.3018	
SH50SZ-M18	212.0521.1018	212.0521.2018	212.0521.3018	
SH50NX-M18	212.0512.1018	212.0512.2018	212.0512.3018	
SH50SX-M18	212.0522.1018	212.0522.2018	212.0522.3018	
SH63NZ-M18	212.0611.1018	212.0611.2018	212.0611.3018	i=-
SH63SZ-M18	212.0621.1018	212.0621.2018	212.0621.3018	12.22
SH63NX-M18	212.0612.1018	212.0612.2018	212.0612.3018	
SH63SX-M18	212.0622.1018	212.0622.2018	212.0622.3018	
SH80NZ-M18	212.0811.1018	212.0811.2018	212.0811.3018	

TXC
TXM
SNP
SOP
SB
SBF
SBL
SBLP
SF
SU
STC
SFF

SOF SOG SFP

SBP SXP SGP SD

SHB AZP

AZPT

AZPR

SPAG

SPCG SPFG SPJG

SPJG (No-mark)

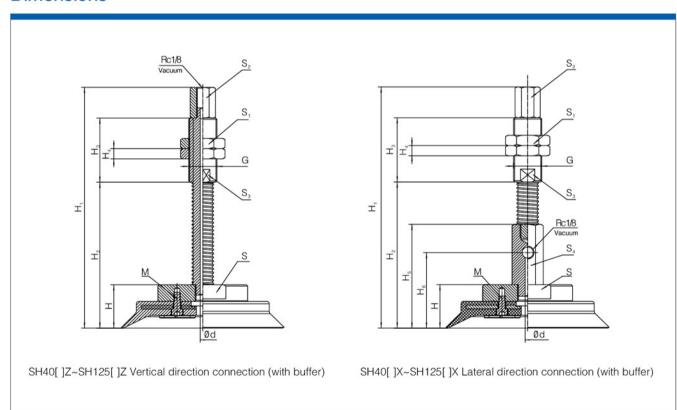
SPUG
SNT
Spring Plunger
Fittings for Vacuum Pads

Ball Joint

How to order

Buffer stroke Model	25mm	50mm	75mm	100mm
SH80SZ-M18	212.0821.1018	212.0821.2018	212.0821.3018	
SH80NX-M18	212.0812.1018	212.0812.2018	212.0812.3018	
SH80SX-M18	212.0822.1018	212.0822.2018	212.0822.3018	
SH100NZ-M22	212.1011.1022	212.1011.2022	212.1011.3022	212.1011.4022
SH100SZ-M22	212.1021.1022	212.1021.2022	212.1021.3022	212.1021.4022
SH100NX-M22	212.1012.1022	212.1012.2022	212.1012.3022	212.1012.4022
SH100SX-M22	212.1022.1022	212.1022.2022	212.1022.3022	212.1022.4022
SH125NZ-M22	212.1211.1022	212.1211.2022	212.1211.3022	212.1211.4022
SH125SZ-M22	212.1221.1022	212.1221.2022	212.1221.3022	212.1221.4022
SH125NX-M22	212.1212.1022	212.1212.2022	212.1212.3022	212.1212.4022
SH125SX-M22	212.1222.1022	212.1222.2022	212.1222.3022	212.1222.4022

Dimensions





Dimension(mm) Model	Н	H ₁	H ₂	Нз	H ₄	H ₅	H ₆	d	G	М	S	S ₁	S ₂	S ₃	S ₄
SH40Z-25-M18	23	118.5	63	35	6	-	-	3	M18×1.5	3-M3×0.5	24	27	14	16	-
SH40Z-50-M18	23	153.5	98	35	6	-	-	3	M18×1.5	3-M3×0.5	24	27	14	16	-
SH40Z-75-M18	23	189.5	134	35	6	-	-	3	M18×1.5	3-M3×0.5	24	27	14	16	=
SH40X-25-M18	23	151	100	35	6	60	38	3	M18×1.5	3-M3×0.5	24	27	14	16	21
SH40X-50-M18	23	186	135	35	6	60	38	3	M18×1.5	3-M3×0.5	24	27	14	16	2
SH40X-75-M18	23	222	171	35	6	60	38	3	M18×1.5	3-M3×0.5	24	27	14	16	2
SH50Z-25-M18	23	118.5	63	35	6	-	_	3	M18×1.5	3-M3×0.5	24	27	14	16	17-
SH50Z-50-M18	23	153.5	98	35	6	-	-	3	M18×1.5	3-M3×0.5	24	27	14	16	-
SH50Z-75-M18	23	189.5	134	35	6	-	_	3	M18×1.5	3-M3×0.5	24	27	14	16	17-
SH50X-25-M18	23	151	100	35	6	60	38	3	M18×1.5	3-M3×0.5	24	27	14	16	2
SH50X-50-M18	23	186	135	35	6	60	38	3	M18 × 1.5	3-M3×0.5	24	27	14	16	2
SH50X-75-M18	23	222	171	35	6	60	38	3	M18×1.5	3-M3×0.5	24	27	14	16	2
SH63Z-25-M18	26	121.5	66	35	6	-	-	3	M18×1.5	4-M4×0.7	37	27	14	16	9-
SH63Z-50-M18	26	156.5	101	35	6	-	-	3	M18×1.5	4-M4×0.7	37	27	14	16	-
SH63Z-75-M18	26	192.5	137	35	6	-	-	3	M18 × 1.5	4-M4×0.7	37	27	14	16	-
SH63X-25-M18	26	154	103	35	6	63	41	3	M18×1.5	4-M4×0.7	37	27	14	16	2
SH63X-50-M18	26	189	136	35	6	63	41	3	M18×1.5	4-M4×0.7	37	27	14	16	2
SH63X-75-M18	26	225	172	35	6	63	41	3	M18×1.5	4-M4×0.7	37	27	14	16	2
SH80Z-25-M18	28	123.5	68	35	6	_	_	3	M18×1.5	4-M4×0.7	37	27	14	16	ં.
SH80Z-50-M18	28	158.5	103	35	6	-	-	3	M18 × 1.5	4-M4×0.7	37	27	14	16	
SH80Z-75-M18	28	194.5	139	35	6	-	-	3	M18 × 1.5	4-M4×0.7	37	27	14	16	-
SH80X-25-M18	28	156	105	35	6	63	41	3	M18 × 1.5	4-M4×0.7	37	27	14	16	2
SH80X-50-M18	28	191	138	35	6	63	41	3	M18 × 1.5	4-M4×0.7	37	27	14	16	2
SH80X-75-M18	28	227	174	35	6	63	41	3	M18 × 1.5	4-M4×0.7	37	27	14	16	2
SH100Z-25-M22	34	152	78	50	8	-	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	(-
SH100Z-50-M22	34	188	114	50	8	-	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	94
SH100Z-75-M22	34	228	154	50	8	-	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	-
SH100Z-100-M22	34	263	189	50	8	-	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	-
SH100X-25-M22	34	186	115	50	8	71	49	4	M22 × 1.5	4-M5×0.8	60	30	17	19	2
SH100X-50-M22	34	222	151	50	8	71	49	4	M22×1.5	4-M5×0.8	60	30	17	19	2
SH100X-75-M22	34	262	191	50	8	71	49	4	M22×1.5	4-M5×0.8	60	30	17	19	2
SH100X-100-M22	34	297	226	50	8	71	49	4	M22 × 1.5	4-M5×0.8	60	30	17	19	2
SH125Z-25-M22	34	152	78	50	8	-	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	
SH125Z-50-M22	34	188	114	50	8	1-	-	4	M22×1.5	4-M5×0.8	60	30	17	19	
SH125Z-75-M22	34	228	154	50	8	-	_	4	M22×1.5	4-M5×0.8	60	30	17	19	٠.
SH125Z-100-M22	34	263	189	50	8	1-	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	
SH125X-25-M22	34	186	115	50	8	71	49	4	M22 × 1.5	4-M5×0.8	60	30	17	19	2
SH125X-50-M22	34	222	151	50	8	71	49	4	M22 × 1.5	4-M5×0.8	60	30	17	19	2
SH125X-75-M22	34	262	191	50	8	71	49	4	M22 × 1.5	4-M5×0.8	60	30	17	19	2
SH125X-100-M22	34	297	226	50	8	71	49	4	M22 × 1.5	4-M5×0.8	60	30	17	19	2

 $\triangle \text{Refer}$ to the pad dimensions on page 140

- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- Various materials are available, suitable for workpiece with different materials and different working conditions
- Heavy load design, suitable for heavy load handling in various industry



Model

Model	Diameter (mm)	Material and Color	Vacuum entry direction	Connection thread
	40			F8-M8X1.25F
	50			F10-M10X1.5F
SH	63	N-NBR (Black)	Z-Vertical	F12-M12X1.75F
SH	80	S-Silicone(White)	X-Lateral	M14-M14X1M
	100			M16-M16X1.5M
	125			F-M16X1.5F

 $\Delta SH40NZ-M14 \quad M-Male \ thread \ \ F-Female \ thread \quad Pad \ material \ of \ ure thane \ rubber \ and \ fluorine \ rubber \ need \ to \ be \ ordered \ seperately$

How to order

Connection	M14 (Male thread)	M16 (Male thread)	F8 (Female thread)	F10 (Female thread)	F12 (Female thread)	F16 (Female thread)
SH40NZ	212.0411.0014		212.0411.0108	212.0411.0110		
SH40SZ	212.0421.0014		212.0421.0108	212.0421.0110		
SH40NX			212.0412.0108	212.0412.0110		
SH40SX			212.0422.0108	212.0422.0110		
SH50NZ	212.0511.0014	11	212.0511.0108	212.0511.0110		
SH50SZ	212.0521.0014		212.0521.0108	212.0521.0110		
SH50NX			212.0512.0108	212.0512.0110		
SH50SX	2		212.0522.0108	212.0522.0110		
SH63NZ	2	212.0611.0016	212.0611.0108	212.0611.0110	212.0611.0112	212.0611.0116
SH63SZ		212.0621.0016	212.0621.0108	212.0621.0110	212.0621.0112	212.0621.0116
SH63NX		7	7227	212.0612.0110	212.0612.0112	
SH63SX	11		1	212.0622.0110	212.0622.0112	
SH80NZ		212.0811.0016	212.0811.0108	212.0811.0110	212.0811.0112	212.0811.0116

TXC

TXM SNP

SOP

SB

SBF

SBLP

SF

SU

STC

SOB

SOF

SFP

SBP

SGP

SD

SH

SHB AZP

AZPT

AZPR

SPAG SPCG

SPFG

SPJG (No-mark)

SPS

SPUG

Spring Plunger

Fittings for Vacuum Pads

BH

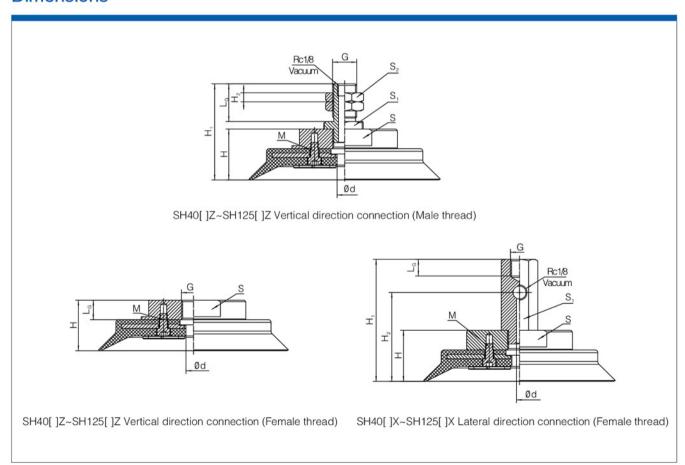
Bulkhead Connector Ball Joint



How to order

Connection	M14 (Male thread)	M16 (Male thread)	F8 (Female thread)	F10 (Female thread)	F12 (Female thread)	F16 (Female thread)
SH80SZ		212.0821.0016	212.0821.0108	212.0821.0110	212.0821.0112	212.0821.0116
SH80NX	(ATT-T)			212.0812.0110	212.0812.0112	
SH80SX	(44)	7	11	212.0822.0110	212.0822.0112	
SH100NZ		212.1011.0016	1		212.1011.0112	212.1011.0116
SH100SZ		212.1021.0016			212.1021.0112	212.1021.0116
SH100NX	101			212.1012.0110	212.1012.0112	12.00
SH100SX			2	212.1022.0110	212.1022.0112	
SH125NZ		212.1211.0016	1		212.1211.0112	212.1211.0116
SH125SZ		212.1221.0016			212.1221.0112	212.1221.0116
SH125NX		1	11	212.1212.0110	212.1212.0112	
SH125SX		2	()	212.1222.0110	212.1222.0112	

Dimensions



Vacuum Pads

Large Type Vacuum Pad SH Series-Without Buffer

A	RE	BES	T
			-

Dimension(mm)	d	Н	H ₁	H ₂	h	G	М	L _G	S	S ₁	S
SH40Z-M14	3	23	53	5	3	M14×1M	3-M3×0.5	25	24	19	19
SH40Z-F8	6	23			3	M8 × 1.25F	3-M3×0.5	11.5	24		-
SH40Z-F10	6	23			3	M10 × 1.5F	3-M3×0.5	11.5	24		-
SH40X-F8	3	23	60	38	3	M8 × 1.25F	3-M3×0.5	11	24	21	-
SH40X-F10	3	23	60	38	3	M10 × 1.5F	3-M3×0.5	11	24	21	-
SH50Z-M14	3	23	53	5	3	M14×1M	3-M3×0.5	25	24	19	1
SH50Z-F8	6	23			3	M8 × 1.25F	3-M3×0.5	11.5	24		_
SH50Z-F10	6	23			3	M10 × 1.5F	3-M3×0.5	11.5	24		-
SH50X-F8	3	23	60	38	3	M8 × 1.25F	3-M3×0.5	11	24	21	-
SH50X-F10	3	23	60	38	3	M10 × 1.5F	3-M3×0.5	11	24	21	-
SH63Z-M16	8	26	56	6	3.5	M16 × 1.5M	4-M4×0.7	25	37	24	2
SH63Z-F8	8	26			3.5	M8 × 1.25F	4-M4×0.7	11.5	37		-
SH63Z-F10	8	26		1221	3.5	M10 × 1.5F	4-M4×0.7	11.5	37		_
SH63Z-F12	8	26		1 1	3.5	M12 × 1.75F	4-M4×0.7	11.5	37		-
SH63Z-F16	8	26		S-77 75 S	3.5	M16 × 1.5F	4-M4×0.7	11.5	37		-
SH63X-F10	4	26	63	41	3.5	M10 × 1.5F	4-M4×0.7	11	37	21	-
SH63X-F12	4	26	63	41	3.5	M10 × 1.5F	4-M4×0.7	11	37	21	-
SH80Z-M16	8	28	58	6	4.5	M16 × 1.5M	4-M4×0.7	25	37	24	2
SH80Z-F8	8	28			4.5	M8 × 1.25F	4-M4×0.7	11.5	37		-
SH80Z-F10	8	28			4.5	M10 × 1.5F	4-M4×0.7	11.5	37		_
SH80Z-F12	8	28			4.5	M12 × 1.75F	4-M4×0.7	11.5	37		-
SH80Z-F16	8	28			4.5	M16 × 1.5F	4-M4×0.7	11.5	37		-
SH80X-F10	4	28	65	43	4.5	M10 × 1.5F	4-M4×0.7	11	37	21	-
SH80X-F12	4	28	65	43	4.5	M10 × 1.5F	4-M4×0.7	11	37	21	_
SH100Z-M16	8	34	64	6	7.5	M16 × 1.5M	5-M5×0.8	25	60	24	2
SH100Z-F12	10	34			7.5	M12 × 1.75F	5-M5×0.8	13	60		_
SH100Z-F16	10	34			7.5	M16 × 1.5F	5-M5×0.8	13	60		-
SH100X-F10	10	34	71	49	7.5	M10 × 1.5F	5-M5×0.8	11	60	21	-
SH100X-F12	10	34	71	49	7.5	M12 × 1.75F	5-M5×0.8	11	60	21	_
SH125Z-M16	8	34	64	6	7.5	M12 × 1.75F	5-M5×0.8	25	60	24	-
SH125Z-F12	10	34			7.5	M16 × 1.5F	5-M5×0.8	13	60		-
SH125Z-F16	10	34			7.5	M10 × 1.5F	5-M5 × 0.8	13	60		-
SH125X-F10	10	34	71	49	7.5	M12 × 1.75F	5-M5×0.8	11	60	21	-
SH125X-F12	10	34	71	49	7.5	M12 × 1.75F	5-M5×0.8	11	60	21	-

 \triangle Refer to the pad dimensions on page 140

TXM SNP SOP

TXC

SB SBF

SBL SBLP SF

SU STC SFF

SOB SOF SOG

SFP SBP SXP

SGP SD

SHB AZP AZPT **AZPR**

SPAG **SPCG** SPFG

SPJG SPJG (No-mark)

SPS

SPUG SNT

Spring Plunger

Fittings for Vacuum Pads

BH Bulkhead Connector

Ball Joint



- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- ♦ Various materials are available, suitable for workpiece with different materials and different working conditions
- ♦ 1.5 bellows compensate height differences of the workpiece efficiently and have buffer effect in the process of handling



Model

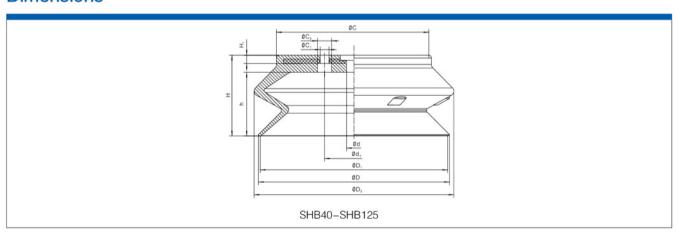
Model	Diameter (mm)	Material and Color
SHB	40 50 63 80 100 125	N-NBR (Black) S-Silicone(White)

△SHB40N M-Male thread F-Female thread Pad material of urethane rubber and fluorine rubber need to be ordered seperately

How to order

Model Material	N	S
SHB40	213.0401.0000	213.0402.0000
SHB50	213.0501.0000	213.0502.0000
SHB63	213.0601.0000	213.0602.0000
SHB80	213.0801.0000	213.0802.0000
SHB100	213.1001.0000	213.1002.0000
SHB125	213.1201.0000	213.1202.0000

Dimensions



Dimension(mm) Model	D	D ₁	D ₂	d	d ₁	Н	H ₁	h	С	C ₁	C ₂
SHB40	41.5	40	43.2	6	18	20.5	3.5	13	30	3-Ф4	3-Ф6.5
SHB50	52	50	54	6	18	24	3.5	16.5	40.5	3-Ф4	3-Φ6.5
SHB63	65	63	67.5	8	34	31.5	4.5	21.5	50	3-Ф5	3-Ф8
SHB80	83	80	85	8	34	37	5	27.5	64	3-Ф5	3-Ф8
SHB100	103	100	106.5	10	40	47.5	6	35.5	80	3-Ф6	3-Φ9.5
SHB125	128.5	125	135	10	40	56	6	44	105	3-Ф6	3-Ф9.5

SHB Series-With Buffer

Features

- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- ♦ Various materials are available, suitable for workpiece with different materials and different working conditions
- ♦1.5 bellows
- ♦With spring plungers of different stroke, touch with the workpiece flexibly, it can adjust and compensate height differences of the workpiece timely



Model

Model	Diameter (mm)	Material and Color	Vacuum entry direction	Buffer stroke (mm)	Connection thread
	40 50			25	
SHB	63 80 100 125	N-NBR (Black) S-Silicone(White)	Z-Vertical X-Lateral	50 75 100	M18-M18 × 1.5M M22-M22 × 1.5M

△SHB40NZ-25-M18 M-Male thread F-Female thread Pad material of urethane rubber and fluorine rubber need to be ordered seperately

How to order

Buffer stroke Model	25mm	50mm	75mm	100mm
SHB40NZ-M18	213.0411.1018	213.0411.2018	213.0411.3018	
SHB40SZ-M18	213.0421.1018	213.0421.2018	213.0421.3018	
SHB40NX-M18	213.0412.1018	213.0412.2018	213.0412.3018	
SHB40SX-M18	213.0422.1018	213.0422.2018	213.0422.3018	
SHB50NZ-M18	213.0511.1018	213.0511.2018	213.0511.3018	
SHB50SZ-M18	213.0521.1018	213.0521.2018	213.0521.3018	
SHB50NX-M18	213.0512.1018	213.0512.2018	213.0512.3018	
SHB50SX-M18	213.0522.1018	213.0522.2018	213.0522.3018	
SHB63NZ-M18	213.0611.1018	213.0611.2018	213.0611.3018	
SHB63SZ-M18	213.0621.1018	213.0621.2018	213.0621.3018	
SHB63NX-M18	213.0612.1018	213.0612.2018	213.0612.3018	
SHB63SX-M18	213.0622.1018	213.0622.2018	213.0622.3018	
SHB80NZ-M18	213.0811.1018	213.0811.2018	213.0811.3018	

TXC TXM

> SNP SOP

SB

SBF SBL

SBLP

SF

SU STC

SFF SOB

SOF SOG

SFP SBP

SXP

SGP SD

SH

SHB AZP AZPT

AZPR SPAG

SPCG SPFG

SPJG SPJG (No-mark) SPS

SPUG SNT

Fittings for Vacuum Pads

Bulkhead Connector

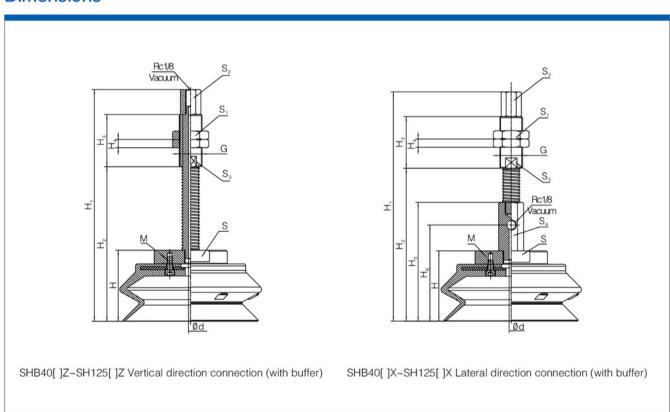
Ball Joint



How to order

Buffer stroke lodel	25mm	50mm	75mm	100mm
SHB80SZ-M18	213.0821.1018	213.0821.2018	213.0821.3018	
SHB80NX-M18	213.0812.1018	213.0812.2018	213.0812.3018	
SHB80SX-M18	213.0822.1018	213.0822.2018	213.0822.3018	
SHB100NZ-M22	213.1011.1022	213.1011.2022	213.1011.3022	213.1011.4022
SHB100SZ-M22	213.1021.1022	213.1021.2022	213.1021.3022	213.1021.4022
SHB100NX-M22	213.1012.1022	213.1012.2022	213.1012.3022	213.1012.4022
SHB100SX-M22	213.1022.1022	213.1022.2022	213.1022.3022	213.1022.4022
SHB125NZ-M22	213.1211.1022	213.1211.2022	213.1211.3022	213.1211.4022
SHB125SZ-M22	213.1221.1022	213.1221.2022	213.1221.3022	213.1221.4022
SHB125NX-M22	213.1212.1022	213.1212.2022	213.1212.3022	213.1212.4022
SHB125SX-M22	213.1222.1022	213.1222.2022	213.1222.3022	213.1222.4022

Dimensions



TXC TXM SNP SOP SB SBF SBL SBLP SF SU STC SFF SOB SOF SOG SFP SBP SXP SGP SD SH SHB AZP AZPT **AZPR** SPAG **SPCG** SPFG SPJG SPJG (No-mark) SPS **SPUG** SNT Spring Plunger Fittings for Vacuum Pads

AIRBEST

Dimension(mm) Model	Н	H ₁	H ₂	H ₃	H ₄	H ₅	H ₆	d	G	М	S	S ₁	S ₂	S ₃	S ₄
SHB40Z-25-M18	32	127.5	72	35	6	_	-	3	M18 × 1.5	3-M3×0.5	24	27	14	16	-
SHB40Z-50-M18	32	162.5	107	35	6	-	-	3	M18×1.5	3-M3×0.5	24	27	14	16	-
SHB40Z-75-M18	32	198.5	143	35	6	_	_	3	M18×1.5	3-M3×0.5	24	27	14	16	_
SHB40X-25-M18	32	160	109	35	6	69	47	3	M18×1.5	3-M3×0.5	24	27	14	16	21
SHB40X-50-M18	32	195	144	35	6	69	47	3	M18×1.5	3-M3×0.5	24	27	14	16	21
SHB40X-75-M18	32	231	180	35	6	69	47	3	M18×1.5	3-M3×0.5	24	27	14	16	21
SHB50Z-25-M18	35.5	131	75.5	35	6	-	-	3	M18×1.5	3-M3×0.5	24	27	14	16	1 - 1
SHB50Z-50-M18	35.5	166	110.5	35	6	-	-	3	M18×1.5	3-M3×0.5	24	27	14	16	-
SHB50Z-75-M18	35.5	202	146.5	35	6	-	-	3	M18×1.5	3-M3×0.5	24	27	14	16	-
SHB50X-25-M18	35.5	163.5	112.5	35	6	72.5	50.5	3	M18×1.5	3-M3×0.5	24	27	14	16	21
SHB50X-50-M18	35.5	198.5	147.5	35	6	72.5	50.5	3	M18×1.5	3-M3×0.5	24	27	14	16	21
SHB50X-75-M18	35.5	234.5	183.5	35	6	72.5	50.5	3	M18×1.5	3-M3×0.5	24	27	14	16	21
SHB63Z-25-M18	43	138.5	83	35	6	-		3	M18×1.5	4-M4×0.7	37	27	14	16	11-11
SHB63Z-50-M18	43	173.5	118	35	6	-	-	3	M18×1.5	4-M4×0.7	37	27	14	16	-
SHB63Z-75-M18	43	209.5	154	35	6	-	-	3	M18×1.5	4-M4×0.7	37	27	14	16	-
SHB63X-25-M18	43	171	120	35	6	80	58	3	M18×1.5	4-M4×0.7	37	27	14	16	21
SHB63X-50-M18	43	206	155	35	6	80	58	3	M18×1.5	4-M4×0.7	37	27	14	16	21
SHB63X-75-M18	43	242	191	35	6	80	58	3	M18×1.5	4-M4×0.7	37	27	14	16	21
SHB80Z-25-M18	48.5	144	88.5	35	6	-	_	3	M18×1.5	4-M4×0.7	37	27	14	16	-
SHB80Z-50-M18	48.5	179	123.5	35	6	-	-	3	M18×1.5	4-M4×0.7	37	27	14	16	-
SHB80Z-75-M18	48.5	215	159.5	35	6	-	-	3	M18×1.5	4-M4×0.7	37	27	14	16	-
SHB80X-25-M18	48.5	176.5	125.5	35	6	85.5	63.5	3	M18×1.5	4-M4×0.7	37	27	14	16	21
SHB80X-50-M18	48.5	211.5	160.5	35	6	85.5	63.5	3	M18 × 1.5	4-M4×0.7	37	27	14	16	21
SHB80X-75-M18	48.5	247.5	196.5	35	6	85.5	63.5	3	M18×1.5	4-M4×0.7	37	27	14	16	21
SHB100Z-25-M22	60.5	178.5	104.5	50	8	-	-	4	M22×1.5	4-M5 × 0.8	60	30	17	19	(-
SHB100Z-50-M22	60.5	214.5	140.5	50	8	-	_	4	M22 × 1.5	4-M5×0.8	60	30	17	19	1 -1
SHB100Z-75-M22	60.5	254.5	180.5	50	8	-	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	-
SHB100Z-100-M22	60.5	289.5	215.5	50	8	-	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	-
SHB100X-25-M22	60.5	212.5	141.5	50	8	97.5	75.5	4	M22 × 1.5	4-M5×0.8	60	30	17	19	21
SHB100X-50-M22	60.5	248.5	177.5	50	8	97.5	75.5	4	M22×1.5	4-M5×0.8	60	30	17	19	21
SHB100X-75-M22	60.5	288.5	217.5	50	8	97.5	75.5	4	M22 × 1.5	4-M5×0.8	60	30	17	19	21
SHB100X-100-M22	60.5	323.5	252.5	50	8	97.5	75.5	4	M22×1.5	4-M5×0.8	60	30	17	19	21
SHB125Z-25-M22	69	187	113	50	8	-	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	-
SHB125Z-50-M22	69	223	149	50	8	-	-	4	M22×1.5	4-M5×0.8	60	30	17	19	-
SHB125Z-75-M22	69	263	189	50	8	_	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	_
SHB125Z-100-M22	69	298	224	50	8	-	-	4	M22 × 1.5	4-M5×0.8	60	30	17	19	: ·-
SHB125X-25-M22	69	221	150	50	8	106	84	4	M22 × 1.5	4-M5×0.8	60	30	17	19	21
SHB125X-50-M22	69	257	186	50	8	106	84	4	M22×1.5	4-M5×0.8	60	30	17	19	21
SHB125X-75-M22	69	297	226	50	8	106	84	4	M22 × 1.5	4-M5×0.8	60	30	17	19	21
SHB125X-100-M22	69	332	261	50	8	106	84	4	M22 × 1.5	4-M5×0.8	60	30	17	19	21

 $\triangle \text{Refer}$ to the pad dimensions on page 147

Bulkhead Connector Ball Joint



- ♦ Various sizes, suitable for workpiece with different shapes and sizes
- ♦ Various materials are available, suitable for workpiece with different materials and different working conditions
- Heavy load design, suitable for heavy load handling in various industry



Model

Model	Diameter (mm)	Material and Color	Vacuum entry direction	Connection thread
	40			F8-M8X1.25F
	50			F10-M10X1.5F
CLID	63	N-NBR (Black)	Z-Vertical	F12-M12X1.75F
SHB	80	S-Silicone(White)	X-Lateral	M14-M14X1M
	100			M16-M16X1.5M
	125			F-M16X1.5F

△SHB40NZ-M14 M-Male thread F-Female thread Pad material of urethane rubber and fluorine rubber need to be ordered seperately

How to order

		(I)		S. Carlotte and Car		
Connection	M14 (Male thread)	M16 (Male thread)	F8 (Female thread)	F10 (Female thread)	F12 (Female thread)	F16 (Female thread)
SHB40NZ	213.0411.0014		213.0411.0108	213.0411.0110		
SHB40SZ	213.0421.0014		213.0421.0108	213.0421.0110		
SHB40NX			213.0412.0108	213.0412.0110		
SHB40SX			213.0422.0108	213.0422.0110		
SHB50NZ	213.0511.0014		213.0511.0108	213.0511.0110		
SHB50SZ	213.0521.0014		213.0521.0108	213.0521.0110		
SHB50NX	2	2	213.0512.0108	213.0512.0110		
SHB50SX			213.0522.0108	213.0522.0110		
SHB63NZ		213.0611.0016	213.0611.0108	213.0611.0110	213.0611.0112	213.0611.0116
SHB63SZ	5	213.0621.0016	213.0621.0108	213.0621.0110	213.0621.0112	213.0621.0116
SHB63NX				213.0612.0110	213.0612.0112	
SHB63SX	122			213.0622.0110	213.0622.0112	
SHB80NZ		213.0811.0016	213.0811.0108	213.0811.0110	213.0811.0112	213.0811.0116

TXC
TXM
SNP
SOP
SB
SBF
SBL
SBLP
SF
SU
STC
SFF
SOB

SOG SFP SBP

SXP SGP SD SH

SHB AZP AZPT

AZPR

SPAG SPCG SPFG SPJG

SPS SPUG SNT

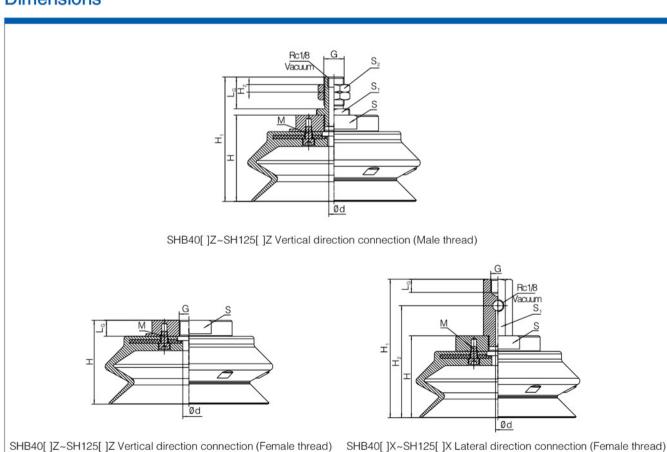
Spring Plunger Fittings for Vacuum Pads

Ball Joint

How to order

	16	627	S and a second s			
Connection Model	M14 (Male thread)	M16 (Male thread)	F8 (Female thread)	F10 (Female thread)	F12 (Female thread)	F16 (Female thread)
SHB80SZ	7.——	213.0821.0016	213.0821.0108	213.0821.0110	213.0821.0112	213.0821.0116
SHB80NX				213.0812.0110	213.0812.0112	
SHB80SX			11	213.0822.0110	213.0822.0112	
SHB100NZ	5	213.1011.0016	1		213.1011.0112	213.1011.0116
SHB100SZ	.==.	213.1021.0016			213.1021.0112	213.1021.0116
SHB100NX	7227		77	213.1012.0110	213.1012.0112	
SHB100SX	·		7	213.1022.0110	213.1022.0112	
SHB125NZ		213.1211.0016	1,1		213.1211.0112	213.1211.0116
SHB125SZ		213.1221.0016			213.1221.0112	213.1221.0116
SHB125NX		11		213.1212.0110	213.1212.0112	
SHB125SX			:	213.1222.0110	213.1222.0112	

Dimensions





Dimension(mm) Model	d	Н	H ₁	H ₂	G	М	L _G	S	S ₁	S ₂
SHB40Z-M14	3	32	62	5	M14 × 1M	3-M3×0.5	25	24	19	19
SHB40Z-F8	6	32			M8 × 1.25F	3-M3×0.5	11.5	24		
SHB40Z-F10	6	32			M10×1.5F	3-M3×0.5	11.5	24		
SHB40X-F8	3	32	69	47	M8 × 1.25F	3-M3×0.5	11	24	21	
SHB40X-F10	3	32	69	47	M10×1.5F	3-M3×0.5	11	24	21	1
SHB50Z-M14	3	35.5	65.5	5	M14×1M	3-M3×0.5	25	24	19	19
SHB50Z-F8	6	35.5			M8 × 1.25F	3-M3×0.5	11.5	24		
SHB50Z-F10	6	35.5			M10×1.5F	3-M3×0.5	11.5	24		
SHB50X-F8	3	35.5	72.5	50.5	M8 × 1.25F	3-M3×0.5	11	24	21	
SHB50X-F10	3	35.5	72.5	50.5	M10×1.5F	3-M3×0.5	11	24	21	
SHB63Z-M16	8	43	73	6	M16 × 1.5M	4-M4×0.7	25	37	24	22
SHB63Z-F8	8	43			M8 × 1.25F	4-M4×0.7	11.5	37		
SHB63Z-F10	8	43			M10×1.5F	4-M4×0.7	11.5	37		
SHB63Z-F12	8	43			M12 × 1.75F	4-M4×0.7	11.5	37		
SHB63Z-F16	8	43			M16×1.5F	4-M4×0.7	11.5	37		
SHB63X-F10	4	43	80	58	M10×1.5F	4-M4×0.7	11	37	21	
SHB63X-F12	4	43	80	58	M10×1.5F	4-M4×0.7	11	37	21	
SHB80Z-M16	8	48.5	78.5	6	M16 × 1.5M	4-M4×0.7	25	37	24	22
SHB80Z-F8	8	48.5			M8 × 1.25F	4-M4×0.7	11.5	37		
SHB80Z-F10	8	48.5			M10×1.5F	4-M4×0.7	11.5	37		
SHB80Z-F12	8	48.5			M12 × 1.75F	4-M4×0.7	11.5	37		
SHB80Z-F16	8	48.5			M16×1.5F	4-M4×0.7	11.5	37		
SHB80X-F10	4	48.5	85.5	63.5	M10×1.5F	4-M4×0.7	11	37	21	
SHB80X-F12	4	48.5	85.5	63.5	M10×1.5F	4-M4×0.7	11	37	21	
SHB100Z-M16	8	60.5	90.5	6	M16 × 1.5M	5-M5×0.8	25	60	24	22
SHB100Z-F12	10	60.5			M12 × 1.75F	5-M5×0.8	13	60		
SHB100Z-F16	10	60.5			M16×1.5F	5-M5×0.8	13	60		
SHB100X-F10	4	60.5	97.5	75.5	M10×1.5F	5-M5×0.8	11	60	21	
SHB100X-F12	4	60.5	97.5	75.5	M12×1.75F	5-M5×0.8	11	60	21	
SHB125Z-M16	8	69	99	6	M12×1.75F	5-M5×0.8	25	60	24	22
SHB125Z-F12	10	69			M16×1.5F	5-M5×0.8	13	60		
SHB125Z-F16	10	69			M10×1.5F	5-M5×0.8	13	60		
SHB125X-F10	4	69	106	84	M12 × 1.75F	5-M5×0.8	11	60	21	
SHB125X-F12	4	69	106	84	M12×1.75F	5-M5×0.8	11	60	21	

 \triangle Refer to the pad dimensions on page 147

Pad style/Pad diameter



Flat style(U)



Flat with ribs(C)



Bellow style(B)

Pad diameter	Φ2	Φ4	Φ6	Φ8	Φ10	Ф13	Ф16	Φ20	Φ25	Ф32	Φ40	Φ50
Flat(U)	•	•	•	•	•	•	•	•	•	•	•	•
Flat with ribs(C)					•	•	•	•	•	•	•	•
Bellow(B)			•	•	•	•	•	•	•	•	•	•

(• Selective)

Pad material	NBR(Black)	Silicone rubber(White)	Urethane rubber(Brown)	Fluorine rubber(Black with green mark)
rau matemai	(N)	(S)	(U)	(F)

How to Order

AZP 10

U 1 (2) Ν

(3)

① Pad	diameter
o	

1				
	02	Φ2mm	16	Φ16mm
	04	Φ4mm	20	Φ20mm
	06	Φ6mm	25	Φ25mm
	08	Φ8mm	32	Ф32mm
	10	Φ10mm	40	Φ40mm
	13	Φ13mm	50	Φ50mm

2 Pad style

U	Flat style
С	Flat with ribs
В	Bellow style

3 Pad material*

N	NBR
S	Silicone rubber
U	Urethane rubber
F	Fluorine rubber

*Besides,we also have electric conductivity NBR and electric conductivity silicone rubber material

TXC

TXM SNP

SOP

SB SBF

SBL

SBLP

SF

SU STC

SFF

SOB

SOF SOG

SFP

SBP

SXP

SGP SD

SH

SHB

AZP AZPT

AZPR

SPAG

SPCG

SPFG

SPJG

SPJG (No-mark)

SPS

SPUG

SNT

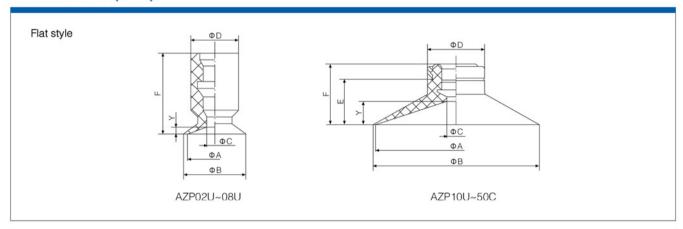
Spring Plunger Fittings for Vacuum Pads

BH

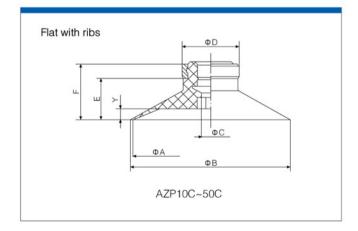
Bulkhead Connector

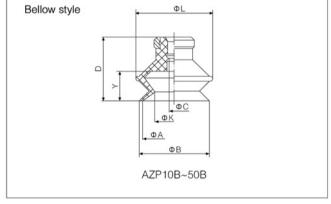
Ball Joint





Model	ФА	ΦВ	ΦС	ΦD	E	F	Y
AZP02U	2	2.6	1.2	7		12	0.8
AZP04U	4	4.8	1.6	7	-	12	0.8
AZP06U	6	7	2.5	7	-	12	0.8
AZP08U	8	9	2.5	7	-	12	1
AZP10U	10	12	4	13	7.7	12	3
AZP13U	13	15	4	13	7.7	12	3
AZP16U	16	18	4	13	8.2	12.5	3.5
AZP20U	20	23	4	15	9.5	14	4
AZP25U	25	28	4	15	9.5	14	4
AZP32U	32	35	4	15	10	14.5	4.5
AZP40U	40	43	7	18	13.7	18.5	6.5
AZP50U	50	53	7	18	14.7	19.5	7.5





Model	ΦА	ΦВ	ΦС	ΦD	Е	F	Υ
AZP10C	10	12	4	13	7.7	12	1.7
AZP13C	13	15	4	13	7.7	12	1.8
AZP16C	16	18	4	13	8.2	12.5	1.2
AZP20C	20	23	4	15	9.5	14	1.7
AZP25C	25	28	4	15	9.5	14	1.8
AZP32C	32	35	4	15	10	14.5	2.3
AZP40C	40	43	7	18	13.7	18.5	3.3
AZP50C	50	53	7	18	14.7	19.5	3.8

Model	ΦА	ΦВ	ΦС	D	ΦК	ΦL	Υ
AZP06B	6	7	2.5	13	3.3	9.1	4
AZP08B	8	9	2.5	13	4.7	10.1	4
AZP10B	10	12	2.5	16	5.5	13.8	5.5
AZP13B	13	15	2.5	18.5	8.7	19	7.5
AZP16B	16	18	2.5	20	9.9	21	8.5
AZP20B	20	22	3.5	23.5	12.4	25	10.5
AZP25B	25	27	3.5	24	15.6	28	10.5
AZP32B	32	34	3.5	29	18.9	37	14
AZP40B	40	43	4.5	34	24.4	48	16
AZP50B	50	53	4.5	38	32.4	57	19

TXC TXM SNP SOP SB

SBF

SBLP

SF SU

STC

SFF

SOB

SOF

SFP SBP

SXP

SGP
SD
SH
SHB
AZP
AZPT
AZPT
SPAG
SPCG

SPFG

SPJG

SPJG (No-mark)

SPS

SPUG

Ball Joint

AIRBEST



Connection	Male thread
Vacuum entry direction	Vertical
Mounting	Use connection for vacuum entry

Connection	Female thread
Vacuum entry direction	Vertical
Mounting	Use connection for vacuum entry

Table 1

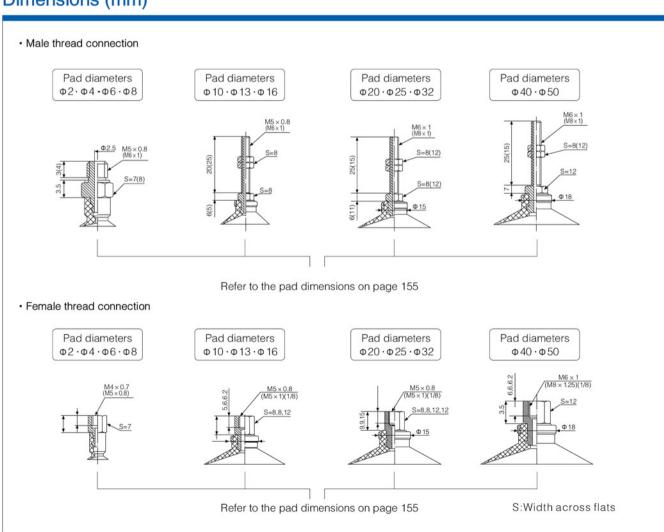
Connection thread	Symbol	Thread dia	Ф2~Ф8	Φ10~Φ16	Ф20~Ф32	Φ40~Φ50
Male	A5	M5 × 0.8	•	•	-	-
	A6	M6 × 1	•	•	•	•
thread	A8	M8 × 1	-	-	•	•
	B4	M4×0.7	•	-	-	_
Famala	B5	M5×0.8	•	•	•	-
Female thread	B6	M6 × 1	-	•	•	•
	B8	M8 × 1.25	-	-	•	•
	B01	Rc1/8	-	•	•	•

(-Selective)

How to Order

AZPT 02 U N – A5

Refer to the pad Vacuum entry model on page 154 (Refer to table ①)



AIRBEST



How to Order



① ② ③ Refer to the pad model on page 154

4 Buffer style

J	Rotating
K	Non-Rotating

⑥ Vacuum entry (Refer to table ①)

⑦ Mounting thread (Refer to table ①)

(5) Buffer stroke(mm)

Buffer stroke	Pad diameter(mm)
6	Ф2~Ф8
10	Ф2~Ф50
15	Ф2~Ф8
20	Ф 10~ Ф 50
25	Ф2~Ф8
30	Ф 10~ Ф 50
40	Ф 10~ Ф 32
50	Φ10~Φ50

50

51.5

77

50

51.5

77

50

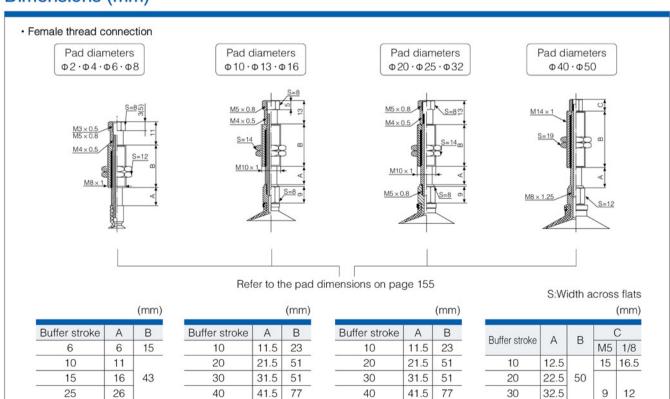
52.5 75

Connection	Female thread、Barb fitting、One-touch fitting
Vacuum entry direction	Vertical
Mounting	Use male thread

Table 1

Connection		Symbol	Thread dia	Ф2~Ф8	Ф10~Ф32	Ф40~Ф50
		В3	M3×0.5	•		
	Female thread	B5	M5×0.8	•	•	•
-	uneau	B01	Rc1/8			•
		N4	Φ4 Nylon tube	•		
Barb	Vacadiii	N6	Φ6 Nylon tube		•	•
fitting		U4	Φ4 PU tube	•		
		U6	Φ6 PU tube		•	•
	One-	4	Φ4 tube	•	•	
	touch	6	Φ6 tube	•	•	•
	fitting	8	Φ8 tube			•
Mounting t	NA-L-	A8	M8 × 1	•		
	Male	A10	M10 × 1		•	
	thread	A14	M14×1			•

(●-Selective)



SF

SU

STC SFF

SOB

SOF SOG

> SFP SBP

SXP

SGP

SD SH

SHB

AZP

AZPT

AZPR SPAG

SPCG

SPFG SPJG

SPS

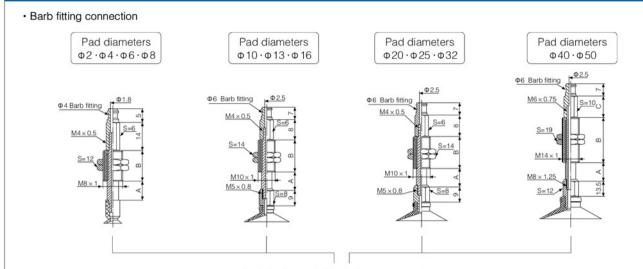
SPUG

Spring Plunger

BH

Ball Joint

AIRBEST



Refer to the pad dimensions on page 155

(mm)

(mm)

Buffer stroke Α 10 12.5 20 22.5 30 32.5

52.5

50

S:Width across flats

В

50

75

(mm)

С

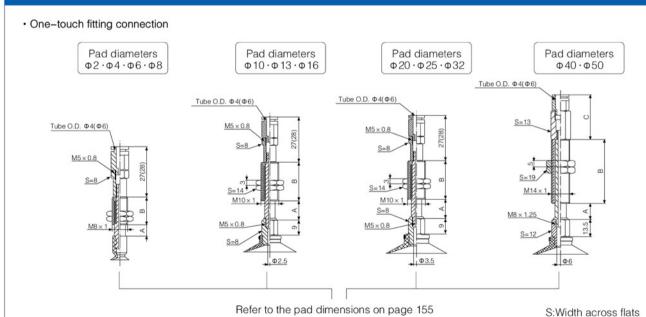
12

5

(mm) Buffer stroke Α В 6 15 10 11 15 16 43 25 26

Buffer stroke	Α	В
10	11.5	23
20	21.5	51
30	31.5	51
40	41.5	77
50	51.5	77

Buffer stroke	Α	В
10	11.5	23
20	21.5	51
30	31.5	51
40	41.5	77
50	51.5	77



Ref	er	to	the	pad	dimensions	on	page	155	

Α	В	В
6	15	
11		
16	43	
26		

(mm)

Buffer stroke

10

15 25

		(mm)
Buffer stroke	Α	В
10	11.5	23
20	21.5	51
30	31.5	51
40	41.5	77
50	51.5	77

		(111111)
Buffer stroke	Α	В
10	11.5	23
20	21.5	51
30	31.5	51
40	41.5	77
50	51.5	77

Buffer stroke	^	D	С		
bullet stroke	Α	В	Φ6	Ф8	
10	12.5	,	35	39.5	
20	22.5	50			
30	32.5		19.9	24.9	
50	52.5	75			

(mm)





Connection	One-touch fitting	
Vacuum entry direction	Lateral	
Mounting	Male thread	



Connection	One-touch fitting
Vacuum entry direction	Lateral
Mounting	Female thread

How to Order

AZPR 02 U N - 04 - A5

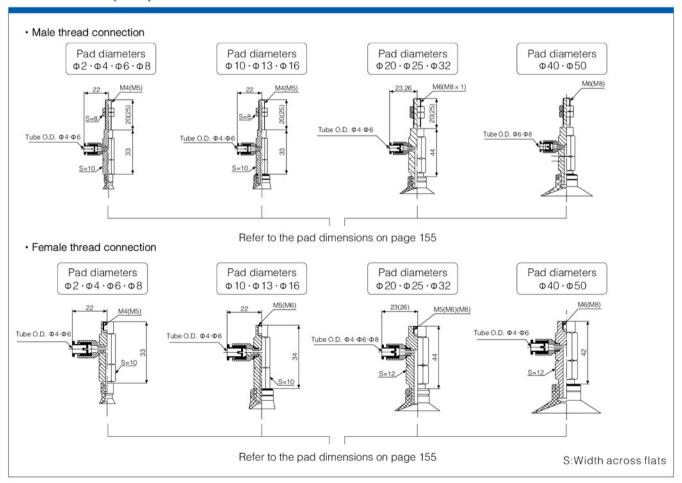
- 1 2 3 4 5
- $\ensuremath{\textcircled{1}}\ensuremath{\textcircled{2}}\ensuremath{\textcircled{3}}$ Refer to the pad model on page 154
- 4 Vacuum entry(Refer to table 1)
- ⑤ Mounting thread(Refer to table ①)

Tab	le	1
	С	onr

Conne	ection	Symbol	Tube/Male thread	Ф2~Ф8	Φ10~Φ16	Ф20~Ф32	Ф40~Ф50
1/2 2	One-	04	Φ4 tube	•	•	•	-
Vacuum entry	touch	06	Φ6 tube	•	•	•	•
entry	fitting	08	Φ8 tube	177	-	•	•
	Male thread	A5	M5×0.8	•	•	-	-
		A6	M6×1	•	•	•	•
		A8	M8 × 1	177		•	•
Mounting	Female	B4	M4×0.7	•	-	-	-
		B5	M5 × 0.8	•	•	•	
	thread	B6	M6×1	-	•	•	•
		B8	M8 × 1.25	_	_	•	•

Dimensions (mm)

(●-Selective)



TXC

TXM

SNP SOP SB

SBL

SBLP

SF

SU STC SFF SOB SOF



Connection	One-touch fitting
Vacuum entry direction	Lateral
Mounting	Use Male thread



How to Order

AZPR 02 U N J - 04 - A8

① ② ③ Refer to the pad model on page 154

Buffer style

	•	
J	Rotating	
K	Non-Botating	

⑥ Vacuum entry (Refer to table ①)

⑦ Mounting thread (Refer to table ①)

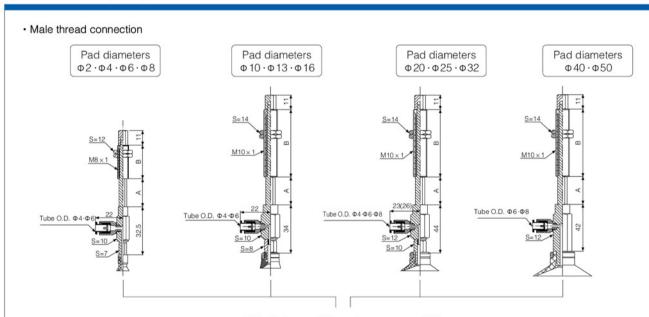
⑤ Buffer stroke(mm)

Buffer stroke	Pad diameters
6	Ф2~Ф8
10	Ф2~Ф50
15	Ф2~Ф8
20	Ф 10~ Ф 50
25	Ф2~Ф8
30	Ф 10~ Ф 50
40	Ф 10~ Ф 32
50	Φ10~Φ50

Table 1

Connection		Symbol	Tube/Male thread	Ф2~Ф8	Ф10~Ф16	Ф20~Ф32	Φ40~Φ50
Vacuum entry	One- touch fitting	04	Φ4 tube	•	•	•	
		06	Φ6 tube	•	•	•	•
		08	Φ8 tube		-	•	•
	Male thread	A8	M8 × 1	•	-	877	177
Mounting		A10	M10×1		•	•	1773
		A14	M14×1	-	_	_	-

Dimensions (mm)



Refer to the pad dimensions on page 155

(mm)

S:Width across flats

		(mm)
Buffer stroke	Α	В
6	8	15
10	11	43
15	16	43
25	26	43

		(,
Buffer stroke	Α	В
10	11	23
20	21	51
30	31	51
40	41	77
50	51	77

		(mm)
Buffer stroke	Α	В
10	11	23
20	21	51
30	31	51
40	41	77
50	51	77

	(mm)
Α	В
12	50
22	50
32	50
52	75
	12 22 32

SOG SFP SBP

SXP

SGP SD

SH

AZPT
AZPR

SPAG SPCG

SPFG SPJG

SPJG (No-mar

SPS

SPUG SNT

Spring Plunger

вн

Bulkhead Connector Ball Joint



How to Order

SPAG - 10 - N

1) Pad Diameter(mm)

10	
15	
20	
25	
30	

2 Pad Material

N	Nitrile Rubber
S	Silicone



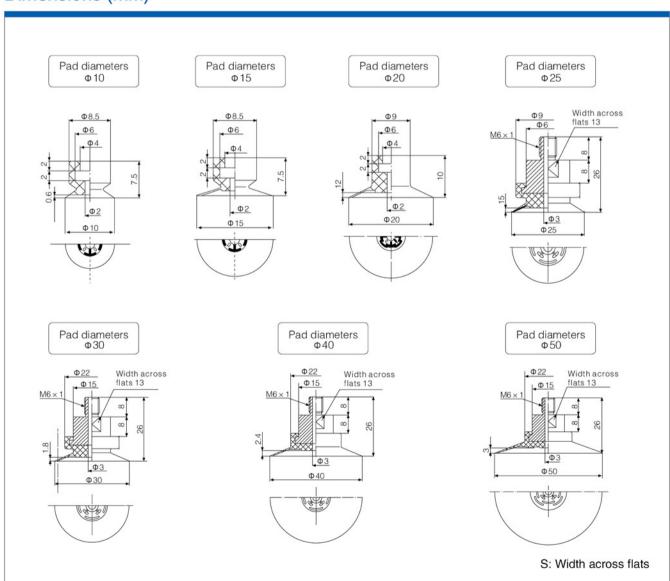






How to Order

- ☆The lip edge is very thin.
- ☆The pad face is smooth, not easy to wrinkle.It is fit to suck the thin things like paper, plastic bag and so on.
- $\mbox{$^{\upphi}$}$ There are four series of this vacuum pad: SPATK, SPAYK, SPATS, SPAYS.



TXC

SNP SOP SB SBF

SBL

SBLP SF

STC SFF SOB SOF SOG

SBP SXP SGP SD SH SHB

AZPT AZPR

SPAG

SPCG

SPFG SPJG

SPS SPUG

SNT
Spring Plunger
Fittings for Vacuum Pads
BH

Ball Joint

AIRBEST

SPATK / SPAYK Series

How to Order

SPA T K- 10 - N

① Vacuum entry direction

T	Vertical	
Υ	Lateral	_

2	Pad	Diamete	r(mm)

10	
15	
20	
25	
30	

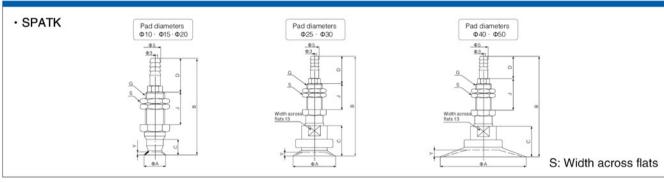
3 Pad Material

	e.
Ν	Nitrile Rubber
S	Silicone



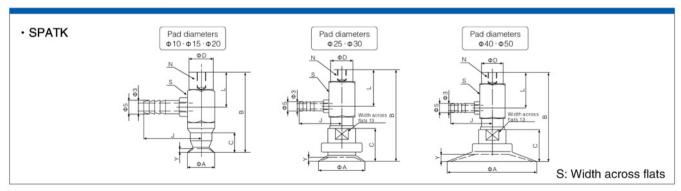
Dimensions (mm)

Vertical direction connection



190		70 C		A				0-
SPATK	Α	В	С	D	Y	S	G	J
SPATK-10	10	46	7.5	16	0.6	12H	M9 × 1	15.5
SPATK-15	15	46	7.5	16	0.9	12H	M9 × 1	15.5
SPATK-20	20	48.5	10	16	1.2	12H	M9 × 1	15.5
SPATK-25	25	67.2	18	16	1.5	14H	M10	20
SPATK-30	30	67.2	18	16	1.8	14H	M10	20
SPATK-40	40	67.2	18	16	0.6	14H	M10	20
SPATK-50	50	67.2	18	16	0.6	14H	M10	20

Lateral direction connection



0041/1/			0					
SPAYK	А	В	C	D	Y	S	N	J
SPAYK-10	10	30	7.5	10	0.6	12	M4depth6	16
SPAYK-15	15	30	7.5	10	0.9	12	M4depth6	16
SPAYK-20	20	32.5	10	10	1.2	12	M4depth6	16
SPAYK-25	25	51.5	18	12	1.5	14	M6depth8	18
SPAYK-30	30	51.5	18	12	1.8	14	M6depth8	18
SPAYK-40	40	51.5	18	12	0.6	14	M6depth8	18
SPAYK-50	50	51.5	18	12	0.6	14	M6depth8	18



How to Order

SPATS- 10 - 4 - N

1) Pad Diameter(mm)					
10					
15					
20					
25					
30					

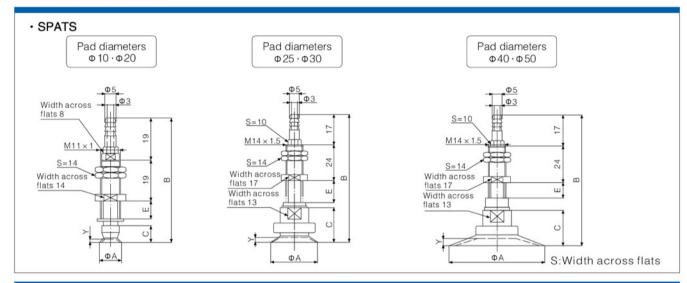
2 Stroke(mm)	
4	
6	
10	
15	
20	
30	
50	

Pad M	aterial
Ν	Nitrile Rubber
S	Silicone



Dimensions (mm)

Vertical direction connection



SPATS	Α	В	С	E	Υ
SPATS-10-4	10	56.5	7.5	8	0.6
SPATS-10-10	10	68.5	7.5	20	0.6
SPATS-10-20	10	88.5	7.5	40	0.6
SPATS-10-30	10	108.5	7.5	60	0.6
SPATS-15-4	15	56.5	7.5	8	0.9
SPATS-15-10	15	68.5	7.5	20	0.9
SPATS-15-20	15	88.5	7.5	40	0.9
SPATS-15-30	15	108.5	7.5	60	0.9
SPATS-20-4	20	59	10	8	1.2
SPATS-20-10	20	71	10	20	1.2
SPATS-20-20	20	91	10	40	1.2
SPATS-20-30	20	111	10	60	1.2
SPATS-25-6	25	73	18	13	1.5
SPATS-25-15	25	93	18	30	1.5
SPATS-25-30	25	123	18	60	1.5
SPATS-25-50	25	163	18	100	1.5
SPATS-30-6	30	76	18	13	1.8
SPATS-30-15	30	93	18	30	1.8
SPATS-30-30	30	126	18	60	1.8
SPATS-30-50	30	163	18	100	1.8
SPATS-40-6	40	76	18	13	2.4
SPATS-40-15	40	93	18	30	2.4
SPATS-40-30	40	123	18	60	2.4
SPATS-40-50	40	163	18	100	2.4
SPATS-50-6	50	76	18	13	3
SPATS-50-15	50	93	18	30	3
SPATS-50-30	50	123	18	60	3
SPATS-50-50	50	163	18	100	3

TXC TXM

SNP SOP SB SBF SBL

SBLP

SF SU

STC

SFF

SOB

SOF

SOG

SFP SBP

SXP SGP SD

SH SHB AZP AZPT **AZPR** SPAG **SPCG SPFG SPJG** SPJG (No-mark) SPS **SPUG** SNT Spring Plunger Fittings for Vacuum Pads BH Bulkhead Connector Ball Joint

SPAYS Series

How to Order

SPAYS- 10 - 4 - N

① F	ad Diameter(mm)
	10
	15
	20
	25
	30

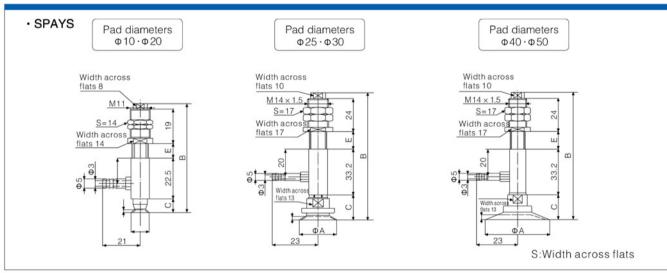
2 Stroke(mm)	
4	
6	
10	
15	
20	
30	
50	

3 Pad Material					
N	Nitrile Rubber				
S	Silicone				



Dimensions (mm)

Vertical direction connection



SPAYS	Α	В	С	E	Υ
SPAYS-10-4	10	60	7.5	8	0.6
SPAYS-10-10	10	72	7.5	20	0.6
SPAYS-10-20	10	92	7.5	40	0.6
SPAYS-10-30	10	112	7.5	60	0.6
SPAYS-15-4	15	60	7.5	8	0.9
PAYS-15-10	15	72	7.5	20	0.9
PAYS-15-20	15	92	7.5	40	0.9
SPAYS-15-30	15	112	7.5	60	0.9
PAYS-20-4	20	62.5	10	8	1.2
SPAYS-20-10	20	74.5	10	20	1.2
PAYS-20-20	20	94.5	10	40	1.2
SPAYS-20-30	20	114.5	10	60	1.2
SPAYS-25-6	25	92.5	18	13	1.5
PAYS-25-15	25	109	18	30	1.5
SPAYS-25-30	25	139	18	60	1.5
SPAYS-25-50	25	179	18	100	1.5
SPAYS-30-6	30	92	18	13	1.8
SPAYS-30-15	30	109	18	30	1.8
PAYS-30-30	30	139	18	60	1.8
PAYS-30-50	30	179	18	100	1.8
PAYS-40-6	40	92	18	13	2.4
SPAYS-40-15	40	109	18	30	2.4
PAYS-40-30	40	139	18	60	2.4
PAYS-40-50	40	179	18	100	2.4
PAYS-50-6	50	92	18	13	3
SPAYS-50-15	50	109	18	30	3
SPAYS-50-30	50	139	18	60	3
SPAYS-50-50	50	179	18	100	3



How to Order

SPA T KM - 10 - N

1 Vacuum entry direction

T Vertiacal
Y Lateral

2 Pad Diameter(mm					
	10				
	15				
	20				
	25				
	30				

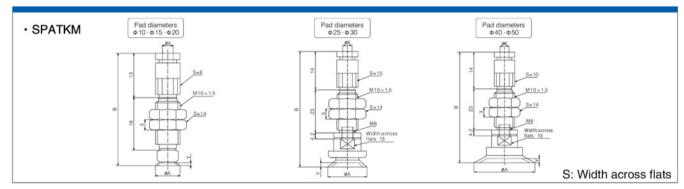
3 Pad Material

Ν	Nitrile Rubber
S	Silicone



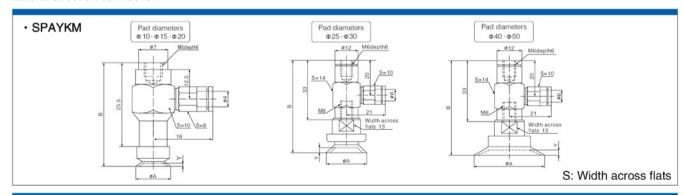
Dimensions (mm)

Vertical direction connection



SPATKM	А	В	Υ
SPATKM-10	10	38.5	0.6
SPATKM-15	15	38.5	0.9
SPATKM-20	20	41	1.2
SPATKM-25	25	59.2	1.5
SPATKM-30	30	59.2	1.8
SPATKM-40	40	59.2	2.4
SPATKM-50	50	59.2	3

Lateral direction connection



SPAYKM	Α	В	Υ
SPAYKM-10	10	33	0.6
SPAYKM-15	15	33	0.9
SPAYKM-20	20	35.5	1.2
SPAYKM-25	25	51.2	1.5
SPAYKM-30	30	51.2	1.8
SPAYKM-40	40	51.2	2.4
SPAYKM-50	50	51.2	3

TXC

TXM SNP SOP SB SBF

SBL

SBLP

SF

SU

STC SFF

SOB SOF

SOG

SFP

SBP SXP

SGP SD SH SHB AZP AZPT

AZPR

SPAG **SPCG SPFG**

SPJG

SPS **SPUG**

Spring Plunge Fittings for Vacuum Pads BH

Ball Joint

SPCG Series

How to Order

SPCG - 10 - N

1) Pad Diameter(mm) 2 Pad Material

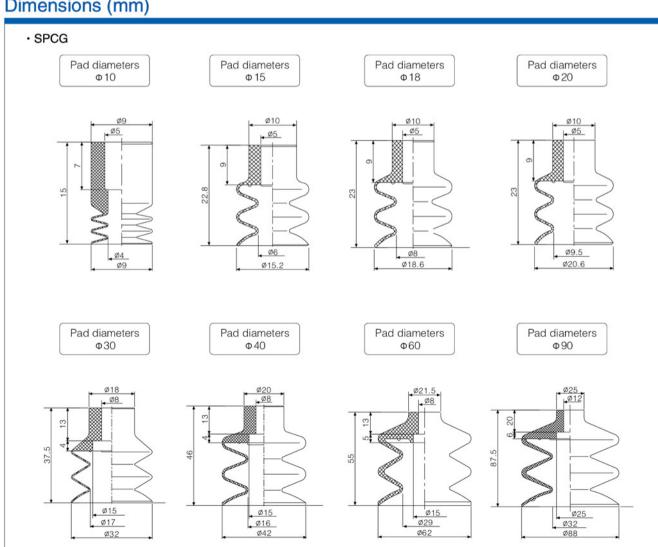
10	20
15	30
18	

Ν	Nitrile Rubber
S	Silicone



Features

- ☆Three stage design, strong adsorbing power.
- ☆There are several layers of ruffle, having some buffering capacity, It is fit to suck the unsmooth face things like unsmooth paper, plastic film and so on.



SPCTK / SPCYK Series

How to Order

SPC T K - 10 - N (2)

1 Vacuum entry direction 2 Pad Dia

m entry direction	2 Pad Diameter(mm)		
Vertiacal	10	20	
Lateral	15	30	

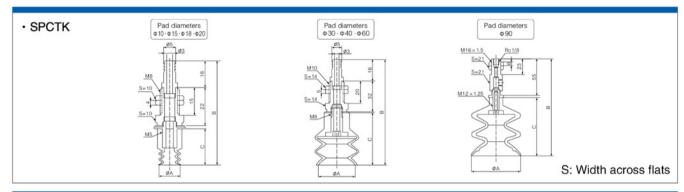
3 Pad Material

Ν	Nitrile Rubber
S	Silicone



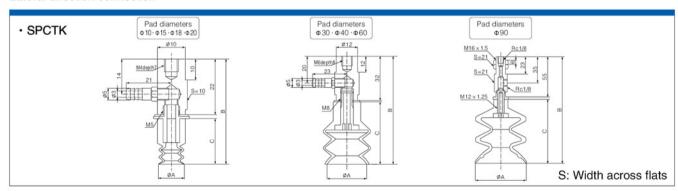
Dimensions (mm)

Vertical direction connection



SPCTK	A	В	С
SPCTK-10	9	56.2	15
SPCTK-15	14	64.2	23
SPCTK-18	18.6	64.2	23
SPCTK-20	20.6	64.2	23
SPCTK-30	32	86.8	37.5
SPCTK-40	42	95.3	46
SPCTK-60	62	104.3	56
SPCTK-90	88	144.8	87.5

Lateral direction connection



Α	В	С
9	40.2	15
14	48.2	23
18.6	48.2	23
20.6	48.2	23
32	70.8	37.5
42	79.3	46
62	88.3	56
88	144.8	87.5
	14 18.6 20.6 32 42 62	9 40.2 14 48.2 18.6 48.2 20.6 48.2 32 70.8 42 79.3 62 88.3

TXC

TXM SNP SOP SB

SBF

SBL

SBLP

SF SU

STC SFF

SOB SOF

SOG SFP

SBP

SXP SGP SD SH SHB

AZP

AZPT **AZPR**

SPAG

SPCG SPFG

SPJG

SPS **SPUG**

BH

Ball Joint

SPFG Series

How to Order

AIRBEST

SPFG-2 N 2

1 Pad Diameter(mm)

2	25	120
3.5	30	150
5	35	200
6	40	
8	50	
10	60	
15	80	
20	95	

2 Pad Material

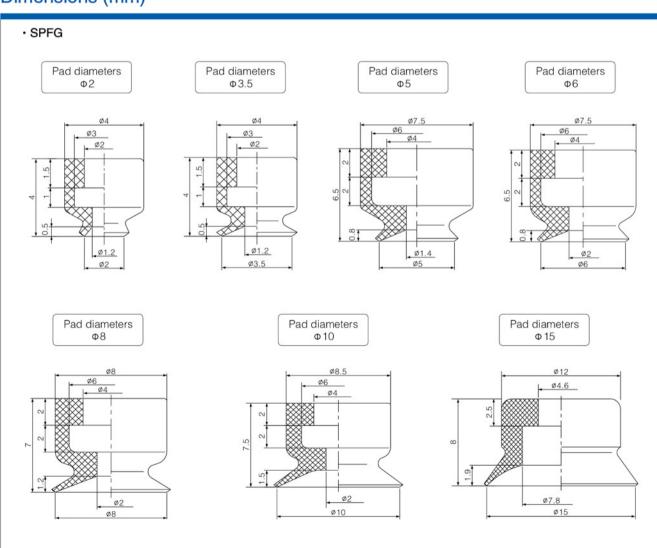
N	Nitrile Rubber
S	Silicone



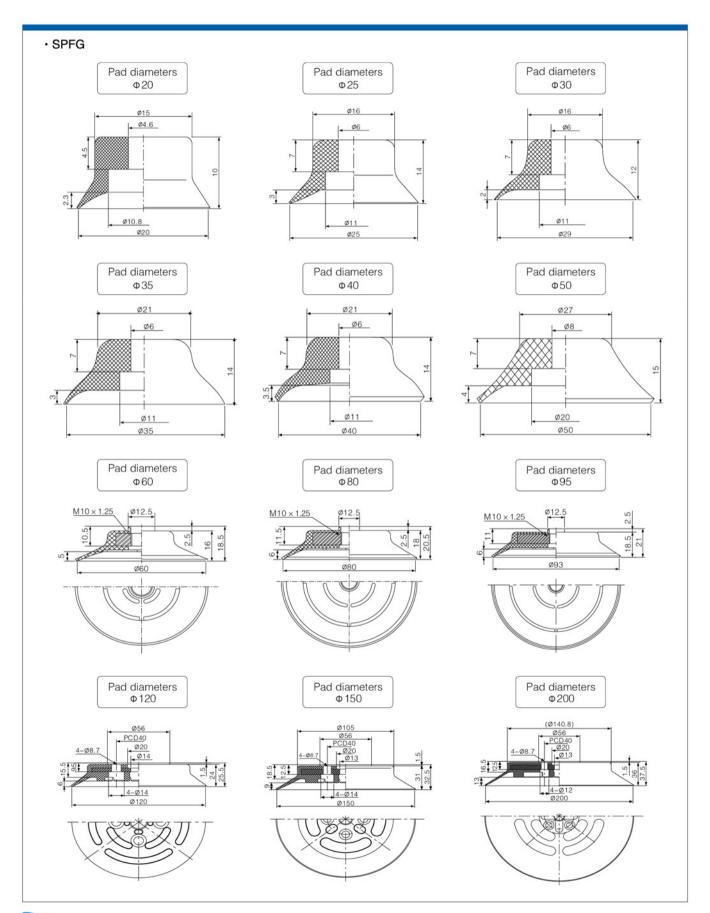


Features

- ☆ It is standard flat style.
- ☆ It is fit to suck the smooth face things like steel plate, sheet material and so on.
- ☆Strong and stable adsorbing power.







How to Order

SPF T KM 2 (2)

Lateral

Υ

1 Vacuum entry direction 2 Pad Diameter(mm) Vertiacal

2	20
3.5	25
5	30
6	35
8	40
10	50
15	

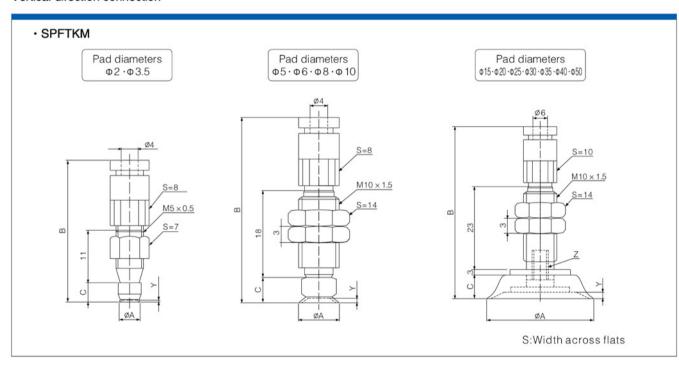
3 Pad	Material

N	Nitrile Rubber
S	Silicone



Dimensions (mm)

Vertical direction connection



	- V				
SPFTKM	A	В	С	Y	Z
SPFTKM-2	2	27.5	4	0.5	-
SPFTKM-3.5	3.5	27.5	4	0.5	
SPFTKM-5	5	37.5	6.5	0.8	
SPFTKM-6	6	37.5	6.5	0.8	-
SPFTKM-8	8	38	7	1.2	
SPFTKM-10	10	38.5	7.5	1.5	-
SPFTKM-15	15	48	8	1.9	M5
SPFTKM-20	20	50	10	2.3	M5
SPFTKM-25	25	54	14	3	M6
SPFTKM-30	30	52	12	2	M6
SPFTKM-35	35	54	14	3	M6
SPFTKM-40	40	54	14	3.5	M6
SPFTKM-50	50	55	15	4	M6

TXC TXM

Vacuum Pads

SNP

SOP SB

SBF SBL

SBLP

SF

SU

STC SFF

SOB

SOF

SOG SFP

SBP

SXP

SGP

SD

SH

SHB

AZP

AZPT

AZPR SPAG

SPCG

SPFG

SPJG

SPJG (No-mark)

SPS

SPUG

SNT

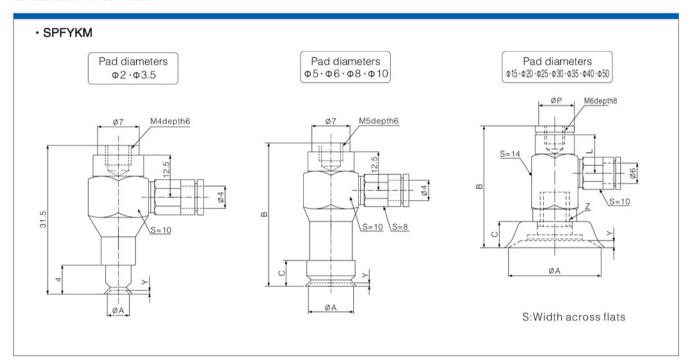
Spring Plunger

Fittings for Vacuum Pads BH

Ball Joint



Lateral direction connection



SPFYKM	Α	В	С	L	Р	Υ	Z
SPFYKM-2	2	o =	-	-	-	0.5	-
SPFYKM-3.5	3.5		-	-	-	0.5	-
SPFYKM-5	5	37.5	6.5	-	-	0.8	-
SPFYKM-6	6	37.5	6.5	_	_	0.8	-
SPFYKM-8	8	38	7	_	_	1.2	_
SPFYKM-10	10	38.5	7.5	_	_	1.5	
SPFYKM-15	15	48	8	14	9	1.9	M5
SPFYKM-20	20	50	10	14	9	2.3	M5
SPFYKM-25	25	54	14	20	12	3	M5
SPFYKM-30	30	52	12	20	12	2	M6
SPFYKM-35	35	54	14	20	12	3	M6
SPFYKM-40	40	54	14	20	12	3.5	M6
SPFYKM-50	50	55	15	20	12	4	M6

AIRBEST

How to Order

SPF T K - 2 - N

1 Vacuum entry direction

T Vertiacal
Y Lateral

2	Pad	Diameter	(mm)
~	rau	Diameter	(111111)

2	35
3.5	40
5	50
6	60
8	80
10	95
15	100
20	120
25	150
30	200

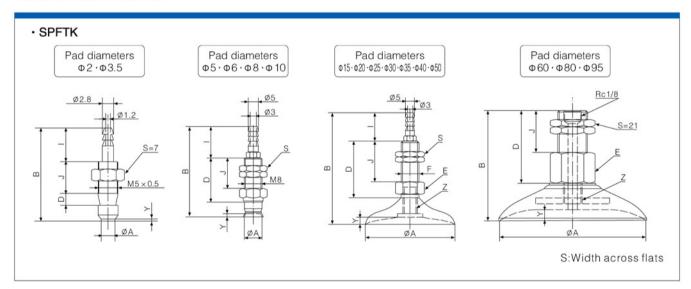
3 Pad Material

N	Nitrile Rubber
S	Silicone



Dimensions (mm)

Vertical direction connection



SPFTK	A	В	D	E	F	1	J	S	Υ	Z
SPFTK-2	2	23.5	3	_	-	8.5	8	-	0.5	_
SPFTK-3.5	3.5	23.5	3	_	-	8.5	8	-	0.5	_
SPFTK-5	5	30.5	14	-	-	10	12	12H	0.8	_
SPFTK-6	6	30.5	14	12	_	10	12	12H	0.8	_
SPFTK-8	8	31	14	_	_	10	12	12H	1.2	_
SPFTK-10	10	46	22.5	10H	M8 × 1.25	16	15.5	12H	1.5	_
SPFTK-15	15	46	22	10H	M8 × 1.25	16	15	10H	1.9	M5
SPFTK-20	20	48	22	10H	M10 × 1.5	16	15	10H	2.3	M5
SPFTK-25	25	62	32	14H	M10 × 1.5	16	20	14H	3.0	M6
SPFTK-30	30	60	32	14H	M10 × 1.5	16	20	14H	2.0	M6
SPFTK-35	35	62	32	14H	M10 × 1.5	16	20	14H	3.0	M6
SPFTK-40	40	62	32	14H	M10 × 1.5	16	20	14H	3.5	M6
SPFTK-50	50	63	32	14H	M10×1.5	16	20	14H	4.0	M8
SPFTK-60	60	58.5	40	21H	_	_	23	y 3, -	5.0	M10 × 1.25
SPFTK-80	80	60.5	40	21H	1-1		23	-	6.0	M10 × 1.25
SPFTK-95	95	61	40	21H	_	-	23	-	6.0	M10 × 1.25

SNP SOP SB

TXC

TXM

SBF

SBLP

SU

STC

SFF

SOB

SOF

SFP

SBP

SXP

SD

SH

SHB

AZPT AZPR

SPAG

SPCG

SPFG SPJG

SPJG (No-mark)

SPS SPUG

SNT

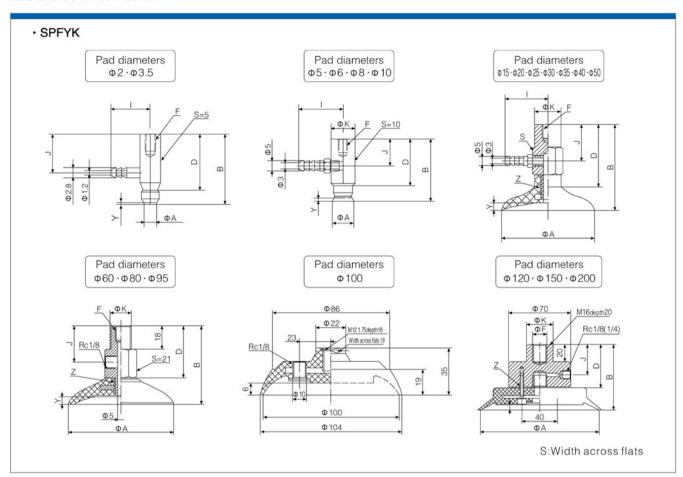
Spring Plunger Fittings for Vacuum Pads

BH Bulkhead

Ball Joint



Lateral direction connection



SPFYK	А	В	D	S	F	1	J	K	Υ	Z
SPFYK-2	2	20	16		M3depth5	11	11	_	0.5	_
SPFYK-3.5	3.5	20	16		M3depth5	11	11	-	0.5	_
SPFYK-5	5	29	22.5	22	M4depth6	21	13	10	0.8	_
SPFYK-6	6	29	22.5	1-2	M4depth6	21	13	10	0.8	_
SPFYK-8	8	29.5	22.5	-	M4depth6	21	13	10	1.2	_
SPFYK-10	10	30	22.5	-	M4depth6	21	13	10	1.5	_
SPFYK-15	15	30	22	-	M4depth6	21	14	10	1.9	M5
SPFYK-20	20	32	22	1-	M4depth6	21	14	10	2.3	M5
SPFYK-25	25	46	32	14H	M6depth8	23	20	12	3.0	M6
SPFYK-30	30	44	32	14H	M6depth8	23	20	12	2.0	M6
SPFYK-35	35	46	32	14H	M6depth8	23	20	12	3.0	M6
SPFYK-40	40	46	32	14H	M6depth8	23	20	12	3.5	M6
SPFYK-50	50	47	32	14H	M6depth8	23	20	12	4.0	M8
SPFYK-60	60	58.5	40	-	M8depth11	-	28	17	5.0	M10 × 1.25
SPFYK-80	80	60.5	40		M8depth11	_	28	17	6.0	M10 × 1.25
SPFYK-95	95	61	40	-	M8depth11	-	28	17	6.0	M10 × 1.25
SPFYK-100	_	-	-	-	_	_	(-)	-	-	_
SPFYK-120	120	75.5	50	-	M16depth20	_	38	30	6.0	4-M8
SPFYK-150	150	82.5	50	-	M16depth20	_	38	30	9.0	4-M8
SPFYK-200	200	87.5	50	_	M16depth20	_	38	30	13	4-M8

SPFTS Series

How to Order

SPFTS- 10 - 4 - N

1 Pad Dia	meter(mm)
2	25
3.5	30
5	35
6	40
8	50
10	60
15	80

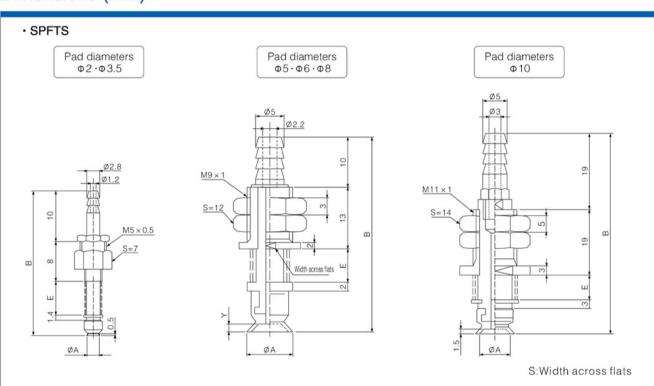
2 Stroke(ı	mm)
2.5	15
3	20
4	25
5	30
6	50
10	70

B) Pad N	laterial
Ν	Nitrile Rubber
S	Silicone
NE	Nitrile ESD
SE	Silicone ESD



Dimensions (mm)

95



SPFTS	Α	В	D	Υ
SPFTS-2-2.5	2	28.5	5.1	-
SPFTS-2-5	2	33.5	10.1	\$ - x 1
SPFTS-3.5-2.5	3.5	28.5	5.1	-
SPFTS-3.5-5	3.5	33.5	10.1	S
SPFTS-5-3	5	37.5	6	0.8
SPFTS-5-10	5	51.5	20	0.8
SPFTS-5-15	5	61.5	30	0.8
SPFTS-5-25	5	61.5	50	0.8
SPFTS-6-3	6	37.5	6	0.8
SPFTS-6-10	6	51.5	20	0.8
SPFTS-6-15	6	61.5	30	0.8
SPFTS-6-25	6	81.5	50	0.8
SPFTS-8-3	6	38	6	1.2

SNP

TXC

TXM

SB SBF

SBL

SF SU

STC

SFF

SOF

SOG

SBP

SXP

SD

SH

SHB

AZPT

AZPR SPAG

SPCG

SPFG SPJG

SPJG (No-mark)

SPUG

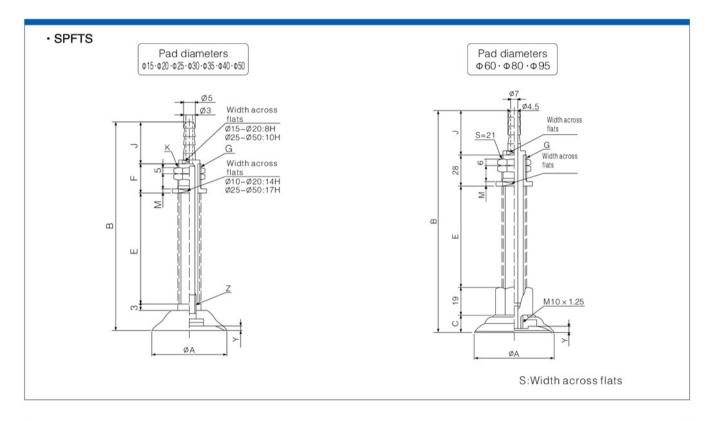
SNT Spring Plunge

Fittings for Vacuum Pads

Connector Ball Joint



SPFTS	А	В	D	Υ
SPFTS-8-10	8	52	20	1.2
SPFTS-8-15	8	62	30	1.2
SPFTS-8-25	8	82	50	1.2
SPFTS-10-4	10	56.5	8	1.5
SPFTS-10-10	10	68.5	20	1.5
SPFTS-10-20	10	88.5	40	1.5
SPFTS-10-30	10	108.5	60	1.5



SPFTS	A	В	E	F	J	S	Y	Z
SPFTS-15-4	15	54	8	19	16	14H	1.9	M5
SPFTS-15-10	15	66	20	19	16	14H	1.9	M5
SPFTS-15-20	15	86	40	19	16	14H	1.9	M5
SPFTS-15-30	15	106	60	19	16	14H	1.9	M5
SPFTS-20-4	20	56	8	19	16	14H	2.3	M5
SPFTS-20-10	20	68	20	19	16	14H	2.3	M5
SPFTS-20-20	20	88	40	19	16	14H	2.3	M5
SPFTS-20-30	20	108	60	19	16	14H	2.3	M5
SPFTS-25-6	25	71	13	24	17	17H	3.0	Me
SPFTS-25-15	25	88	30	24	17	17H	3.0	Me
SPFTS-25-30	25	118	60	24	17	17H	3.0	Me
SPFTS-25-50	25	158	100	24	17	17H	3.0	Me
SPFTS-30-6	30	69	13	24	17	17H	2.0	Me
SPFTS-30-15	30	86	30	24	17	17H	2.0	Me
SPFTS-30-30	30	116	60	24	17	17H	2.0	Me
SPFTS-30-50	30	156	100	24	17	17H	2.0	Me
SPFTS-35-6	35	71	13	24	17	17H	3.0	Me
SPFTS-35-15	35	88	30	24	17	17H	3.0	Me
SPFTS-35-30	35	118	60	24	17	17H	3.0	Me
SPFTS-35-50	35	158	100	24	17	17H	3.0	Me

Standard Vacuum Pad Group with Spring Type Fittings SPFTS Series

AIRBEST

SPFTS	А	В	Е	F	J	S	Υ	Z
SPFTS-40-6	40	71	13	24	17	17H	3.5	M6
SPFTS-40-15	40	88	30	24	17	17H	3.5	M6
SPFTS-40-30	40	118	60	24	17	17H	3.5	M6
SPFTS-40-50	40	158	100	24	17	17H	3.5	M6
SPFTS-50-6	50	72	13	24	17	17H	4.0	M6
SPFTS-50-15	50	89	30	24	17	17H	4.0	M6
SPFTS-50-30	50	119	60	24	17	17H	4.0	M6
SPFTS-50-50	50	159	100	24	17	17H	4.0	M6
SPFTS-60-10	60	110.5	20	-	-	-	5.0	-
SPFTS-60-30	60	150.5	60	-	-	-	5.0	-
SPFTS-60-50	60	190.5	100	-	-	-	5.0	-
SPFTS-60-70	60	230.5	140	-	-	-	5.0	-
SPFTS-80-10	80	112.5	20	-	-	-	6.0	-
SPFTS-80-30	80	152.5	60	_	_	_	6.0	1_1
SPFTS-80-50	80	192.5	100	_	_	_	6.0	-
SPFTS-80-70	80	232.5	140	-	_	_	6.0	_
SPFTS-95-10	93	113	20	-	_	-	6.0	-
SPFTS-95-30	93	153	60	-	1-1	-	6.0	-
SPFTS-95-50	93	193	100	-	-	1-1	6.0	-
SPFTS-95-70	93	233	140	1-	-	-	6.0	-

TXC TXM SNP

SOP

SBF

SBLP SF

STC SFF

SOB

SOG

SFP SBP

SXP

SD

SH

SHB

AZPT

AZPR

SPAG SPCG

SPFG SPJG

SPJG (No-mark)

SPS

SPUG SNT

Spring Plunger

Fittings for Vacuum Pads

Bulkhead



SPFYS- 10 - 4 - N

1 Pad Dia	meter(mm)
2	35
3.5	40
5	50
6	60
8	80
10	95
15	100
20	120
25	150

30

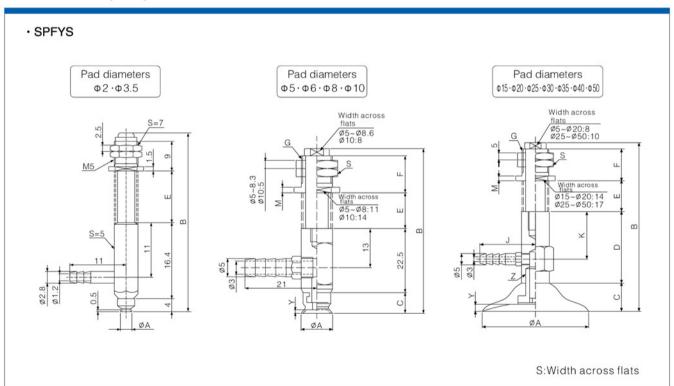
2) Stroke(r	mm)
2.5	15
3	20
4	25
5	30
6	50
10	70

aterial
Nitrile Rubber
Silicone
Nitrile ESD
Silicone ESD



Dimensions (mm)

200



TXC TXM

SNP SOP

SB SBF

SBL SBLP

SF SU

STC

SFF SOB

> SOF SOG

SFP

SBP

SXP

SGP SD

SH

SHB

AZP **AZPT**

AZPR

SPAG SPCG

SPFG

SPJG

SPS

SPUG

SNT

Spring Plunger

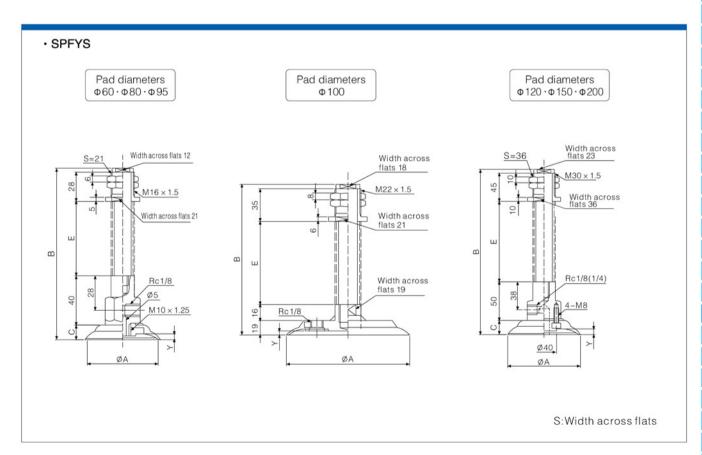
Fittings for Vacuum Pads

BH

Ball Joint



SPFYS В C D E F S Α G J K M Y Z SPFYS-2-2.5 2 35.7 4.5 _ SPFYS-2-5 2 40.7 9.5 SPFYS-3.5-2.5 3.5 35.7 4.5 9.5 SPFYS-3.5-5 3.5 40.7 $M9 \times P1$ 2 SPFYS-5-3 5 51 6.5 6 13 12H 0.8 SPFYS-5-10 5 6.5 20 13 $M9 \times P1$ 12H 2 0.8 SPFYS-5-15 5 75 6.5 30 13 $M9 \times P1$ 12H 2 0.8 SPFYS-5-25 5 95 6.5 50 13 $M9 \times P1$ 12H 2 8.0 _ 2 SPFYS-6-3 $M9 \times P1$ 0.8 6 51 6.5 6 13 12H SPFYS-6-10 6 20 13 $M9 \times P1$ 12H 2 8.0 SPFYS-6-15 6 75 6.5 30 13 $M9 \times P1$ 12H 2 0.8 SPFYS-6-25 6 95 6.5 50 13 $M9 \times P1$ 12H 2 0.8 2 SPFYS-8-3 8 51.5 6 13 $M9 \times P1$ 12H 1.2 7 _ SPFYS-8-10 65.5 7 20 $M9 \times P1$ 2 8 13 12H 1.2 SPFYS-8-15 8 75.5 7 30 13 $M9 \times P1$ 12H 2 1.2 SPFYS-8-25 8 95.5 7 50 13 $M9 \times P1$ 12H 2 1.2 _ SPFYS-10-4 10 60 7.5 8 19 $M11 \times P1$ 14H 3 1.5 7.5 M11×P1 3 SPFYS-10-10 10 72 20 19 14H 1.5 7.5 SPFYS-10-20 10 92 40 19 $M11 \times P1$ 14H 3 1.5 SPFYS-10-30 112 7.5 60 19 $M11 \times P1$ 14H 3 1.5





SPFYS	Α	В	С	D	Е	F	G	J	К	S	М	Υ	Z
SPFYS-15-4	15	60	8	22	8	19	M11×P1	21	14	14H	3	1.9	M5
SPFYS-15-10	15	72	8	22	20	19	M11×P1	21	14	14H	3	1.9	M5
SPFYS-15-20	15	92	8	22	40	19	M11×P1	21	14	14H	3	1.9	M5
SPFYS-15-30	15	112	8	22	60	19	M11×P1	21	14	14H	3	1.9	M5
SPFYS-20-4	20	62	10	22	8	19	M11×P1	21	14	14H	3	2.3	M5
SPFYS-20-10	20	74	10	22	20	19	M11×P1	21	14	14H	3	2.3	M5
SPFYS-20-20	20	94	10	22	40	19	M11×P1	21	14	14H	3	2.3	M5
SPFYS-20-30	20	114	10	22	60	19	M11×P1	21	14	14H	3	2.3	M5
SPFYS-25-6	25	87	14	32	13	24	M14×P1.5	23	20	17H	4	3.0	M6
SPFYS-25-15	25	104	14	32	30	24	M14×11.5	23	20	17H	4	3.0	M6
SPFYS-25-30	25	134	14	32	60	24	M14×P1.5	23	20	17H	4	3.0	M6
SPFYS-25-50	25	174	14	32	100	24	M14×P1.5	23	20	17H	4	3.0	M6
SPFYS-30-6	30	85	12	32	13	24	M14×P1.5	23	20	17H	4	2.0	M6
SPFYS-30-15	30	102	12	32	30	24	M14×P1.5	23	20	17H	4	2.0	M6
SPFYS-30-30	30	132	12	32	60	24	M14×P1.5	23	20	17H	4	2.0	M6
SPFYS-30-50	30	172	12	32	100	24	M14×P1.5	23	20	17H	4	2.0	M6
SPFYS-35-6	35	87	14	32	13	24	M14×P1.5	23	20	17H	4	3.0	M6
SPFYS-35-15	35	104	14	32	30	24	M14×P1.5	23	20	17H	4	3.0	M6
SPFYS-35-30	35	134	14	32	60	24	M14×P1.5	23	20	17H	4	3.0	M6
SPFYS-35-50	35	174	14	32	100	24	M14×P1.5	23	20	17H	4	3.0	M6
SPFYS-40-6	40	87	14	32	13	24	M14×P1.5	23	20	17H	4	3.5	M6
SPFYS-40-15	40	104	14	32	30	24	M14×P1.5	23	20	17H	4	3.5	M6
SPFYS-40-30	40	134	14	32	60	24	M14×P1.5	23	20	17H	4	3.5	M6
SPFYS-40-50	40	174	14	32	100	24	M14×P1.5	23	20	17H	4	3.5	M6
SPFYS-50-6	50	88	14	32	13	24	M14×P1.5	23	20	17H	4	4.0	M8
SPFYS-50-15	50	105	14	32	30	24	M14×P1.5	23	20	17H	4	4.0	M8
SPFYS-50-30	50	135	14	32	60	24	M14×P1.5	23	20	17H	4	4.0	M8
SPFYS-50-50	50	175	15	32	100	24	M14×P1.5	23	20	17H	4	4.0	M8
SPFYS-60-10	60	110.5	18.5	40	20	28	M16×P1.5	_	28	21H	5	5.0	M10×P1.5
SPFYS-60-30	60	150.5	18.5	40	60	28	M16×P1.5	-	28	21H	5	5.0	M10×P1.5
SPFYS-60-50	60	190.5	18.5	40	100	28	M16×P1.5	-	28	21H	5	5.0	M10×P1.5
SPFYS-60-70	60	230.5	18.5	40	140	28	M16×P1.5	, i –	28	21H	5	5.0	M10×P1.5
SPFYS-80-10	80	112.5	20.5	40	20	28	M16×P1.5	-	28	21H	5	6.0	M10×P1.5
SPFYS-80-30	80	152.5	20.5	40	60	28	M16×P1.5	-	28	21H	5	6.0	M10×P1.5
SPFYS-80-50	80	192.5	20.5	40	100	28	M16×P1.5	-	28	21H	5	6.0	M10×P1.5
SPFYS-80-70	80	232.5	20.5	40	140	28	M16×P1.5		28	21H	5	6.0	M10×P1.5
SPFYS-95-10	93	113	21	40	20	28	M16×P1.5	-	28	21H	5	6.0	M10×P1.5
SPFYS-95-30	93	153	21	40	60	28	M16×P1.5	-	28	21H	5	6.0	M10×P1.5
SPFYS-95-50	93	193	21	40	100	28	M16×P1.5	-	28	21H	5	6.0	M10×P1.5
SPFYS-95-70	93	233	21	40	140	28	M16×P1.5	177	28	21H	5	6.0	M10×P1.5
SPFYS-100-15	100	106	19	16	30	35	M22×P1.5	-	-	27H	6	6.0	-
SPFYS-100-30	100	136	19	16	60	35	M22×P1.5	_	_	27H	6	6.0	_
SPFYS-100-50	100	176	19	16	100	35	M22×P1.5			27H	6	6.0	_
SPFYS-100-70	100	216	19	16	140	35	M22×P1.5	-	_	27H	6	6.0	-
SPFYS-120-20	120	203.5	25.5	50	75	45	M30×P1.5	-	38	36H	10	6.0	4-M8
SPFYS-120-100	120	293.5	25.5	50	165	45	M30×P1.5	-	38	36H	10	6.0	4-M8
SPFYS-150-20	150	210.5	32.5	50	75	45	M30×P1.5	_	38	36H	10	9.0	4-M8
SPFYS-150-100	150	300.5	32.5	50	165	45	M30×P1.5	-	38	36H	10	9.0	4-M8
SPFYS-200-20	200	215.5	37.5	50	75	45	M30×P1.5	_	38	36H	10	13.0	4-M8
SPFYS-200-100	200	305.5	37.5	50	165	45	M30×P1.5	-	38	36H	10	13.0	4-M8

TXC TXM

SNP SOP

SB

SBF

SBL

SBLP

SF SU

STC SFF SOB

SOF

SOG

SFP SBP

SXP

SGP

SD SH SHB AZP

AZPT

AZPR SPAG SPCG

SPFG

SPJG

SPS **SPUG** SNT Spring Plunge

BH

Bulkhead Connector Ball Joint

AIRBEST

How to Order

SPJG-6 N 1 2

1) Pad Diameter(mm)

6	30
8	35
10	40
15	50
20	60
25	

2 Pad Material

Ν	Nitrile Rubber
S	Silicone

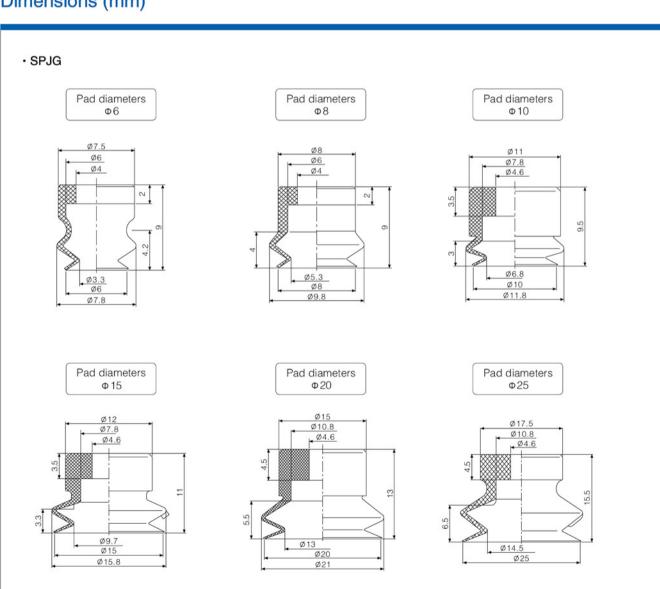




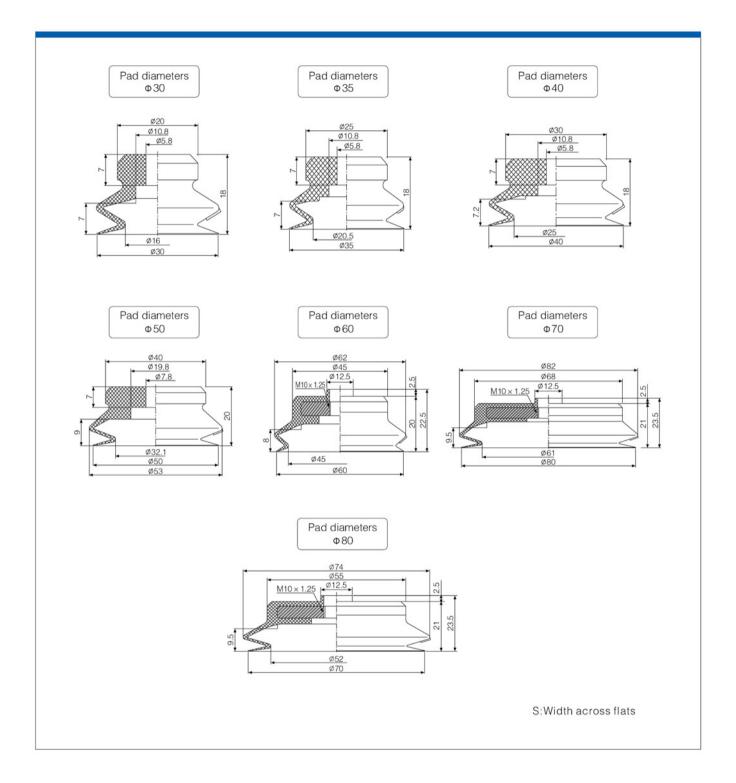
Features

- ☆ The lip edge is thin and the leak tightness is very good.
- ☆ It is fit to suck tilted things and small-sized papers, plastic film and so on.
- ☆ Strong and stable adsorbing power.

Dimensions (mm)







SPJ T K - 2 -

1 Vacuum entry direction

Т	Vertical		
Υ	Lateral		

(2)	3
2 Pad Diameter(mm)	3 Pa
	② ② Pad Diameter(mm)

100	
6	25
8	30
10	35
15	40
20	50

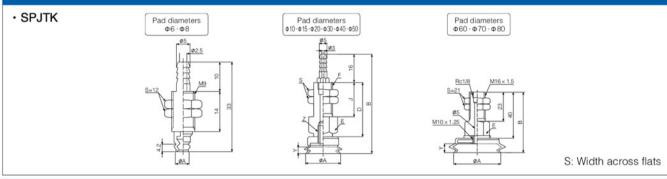
3 Pad Material

Ν	Nitrile Rubber
S	Silicone



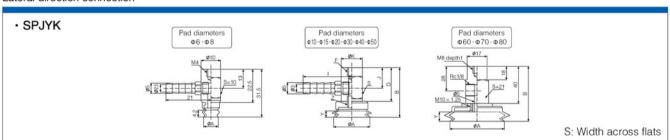
Dimensions (mm)

Vertical direction connection



SPJTK	Α	В	D	E	F	J	S	Y	Z
SPJTK-6	6	-	-	-	-	-	-	4.2	-
SPJTK-8	8	-	-	-	-	-	-	4.2	-
SPJTK-10	10	47.5	22	10H	M8	15	10H	3	M5
SPJTK-15	15	49	22	10H	M8	15	10H	4.5	M5
SPJTK-20	20	51	22	10H	M8	15	10H	5.5	M5
SPJTK-30	30	66	32	14H	M10	20	14H	8	M6
SPJTK-40	40	66	32	14H	M10	20	14H	8	M6
SPJTK-50	50	68	32	14H	M10	20	14H	9	M8
SPJTK-60	60	62.5	3-7	21H	8-T-	1	-	10	-
SPJTK-70	70	63.5	-	22H	_	7-7	_	11	7-1
SPJTK-80	80	63.5	-	23H	i -	-		11	-

Lateral direction connection



SPJYK	А	В	D	S	F	J	K	Υ	Z
SPJYK-6	6	j -	-			-	-	-	
SPJYK-8	8	_	-	-	-	-	-	-	-
SPJYK-10	10	31.5	22	10H	M4depth6	14	10	3	M5
SPJYK-15	15	33	22	10H	M4depth6	14	10	4.5	M5
SPJYK-20	20	35	22	10H	M4depth6	14	10	5.5	M5
SPJYK-30	30	50	32	14H	M6depth8	20	12	8	M6
SPJYK-40	40	50	32	14H	M6depth8	20	12	8	M6
SPJYK-50	50	52	32	14H	M6depth8	20	12	9	M8
SPJYK-60	60	62.5		_	_	_	120	10	1127
SPJYK-70	70	63.5	-	-	1	-	-	11	-
SPJYK-80	80	63.5	_	-	-	12	_	11	-

Vacuum Pads

SBL SBLP

SF

SU

STC

SOB

SOF SOG

SFP

SBP

SGP

SD SH

SHB AZP

AZPT

AZPR SPAG

SPCG SPFG

SPJG

SPJG (No-mark)

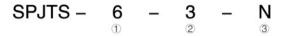
SPS SPUG

SNT

Spring Plunger Fittings for Vacuum Pads

BH Bulkhead Connector Ball Joint





1) Pa	d Diamete	r(mm)
-------	-----------	-------

4985	
6	25
8	30
10	35
15	40
20	50

(2)	Stro	ke(mm

3	20
4	25
6	30
10	50
15	

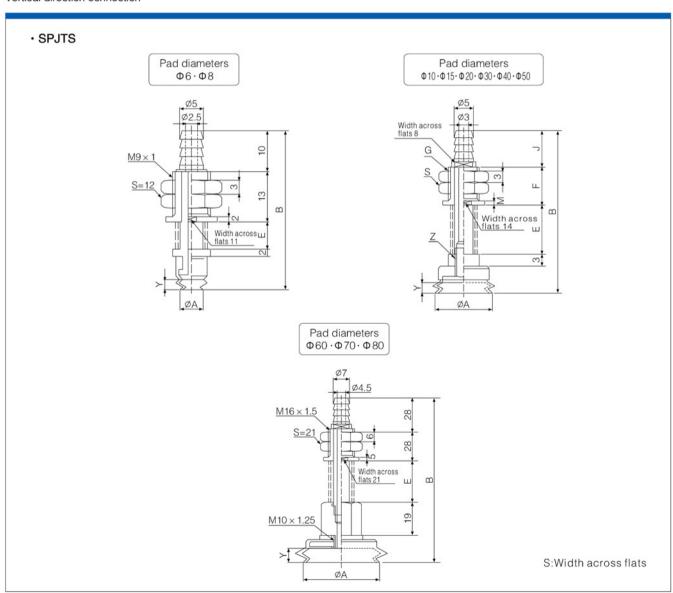
3 Pad Material

Ν	Nitrile Rubber
S	Silicone



Dimensions (mm)

Vertical direction connection



TXC TXM

SPJTS Series

SPJTS	А	В	Е	F	G	J	S	М	Υ	Z
SPJTS-6-3	6	40	6	-	_	_	-	-	4.2	_
SPJTS-6-10	6	54	20	_	_	_	_	_	4.2	_
SPJTS-6-15	6	64	30	_	_	_	_	_	4.2	_
SPJTS-6-25	6	84	50	_	_	_	_	_	4.2	_
SPJTS-8-3	8	40	6	_	_	-	_	_	4.2	_
SPJTS-8-10	8	54	20	_	_	_	_	_	4.2	_
SPJTS-8-15	8	64	30	_	_	-	_	_	4.2	_
SPJTS-8-25	8	84	50	_	_	-	-	_	4.2	_
				- 10						115
SPJTS-10-4	10	55.5	8	19	M11×P1	16	14H	3	3	M5
SPJTS-10-10	10	67.5	20	19	M11×P1	16	14H	3	3	M5
SPJTS-10-20	10	87.5	40	19	M11×P1	16	14H	3	3	M5
SPJTS-10-30	10	107.5	60	19	M11×P1	16	14H	3	3	M5
SPJTS-15-4	15	57	8	19	M11×P1	16	14H	3	4.5	M5
SPJTS-15-10	15	69	20	19	M11×P1	16	14H	3	4.5	M5
SPJTS-15-20	15	89	40	19	M11×P1	16	14H	3	4.5	M5
SPJTS-15-30	15	109	60	19	M11×P1	16	14H	3	4.5	M5
SPJTS-20-4	20	59	8	19	M11×P1	16	14H	3	5.5	M5
SPJTS-20-10	20	71	20	19	M11×P1	16	14H	3	5.5	M5
SPJTS-20-20	20	91	40	19	M11×P1	16	14H	3	5.5	M5
SPJTS-20-30	20	111	60	19	M11×P1	16	14H	3	5.5	M5
SPJTS-30-6	30	75	13	24	M14×P1.5	17	17H	4	8	M6
SPJTS-30-15	30	92	30	24	M14×P1.5	17	17H	4	8	M6
SPJTS-30-30	30	122	60	24	M14×P1.5	17	17H	4	8	M6
SPJTS-30-50	30	162	100	24	M14×P1.5	17	17H	4	8	M6
SPJTS-40-6	40	75	13	24	M14×P1.5	17	17H	4	8	M6
SPJTS-40-15	40	92	30	24	M14×P1.5	17	17H	4	8	M6
SPJTS-40-30	40	122	60	24	M14×P1.5	17	17H	4	8	M6
SPJTS-40-50	40	162	100	24	M14×P1.5	17	17H	4	8	M6
SPJTS-50-6	50	77	13	24	M14×P1.5	17	17H	4	9	M6
SPJTS-50-15	50	94	30	24	M14×P1.5	17	17H	4	9	M6
SPJTS-50-30	50	124	60	24	M14×P1.5	17	17H	4	9	M6
SPJTS-50-50	50	164	100	24	M14×P1.5	17	17H	4	9	M6
SPJTS-60-10	60	114.5	20	11-	_		_	_	10	_
SPJTS-60-30	60	154.5	60	-	_		_	-	10	_
SPJTS-60-50	60	194.5	100	_	_	-	_	-	10	-
SPJTS-60-70	60	234.5	140	_	_	- 1	-	_	10	_
SPJTS-70-10	70	115.5	20	_	_	_	-	_	11	_
SPJTS-70-30	70	155.5	60	-	_	-	_	_	11	-
SPJTS-70-50	70	195.5	100		_		_	_	11	_
SPJTS-70-70	70	235.5	140	_	_	_	_	_	11	_
SPJTS-80-10	80	115.5	20	_	_	_	_	_	11	_
SPJTS-80-30	80	155.5	60		_		_	_	11	_
SPJTS-80-50	80	195.5	100	_					11	_
SPJTS-80-70	80	235.5	140		_	<u> </u>	_		11	_
01010-00-70	00	200.0	140						11	

SNP
SOP
SB
SBF
SBL
SBLP
SF
SU
STC
SFF
SOB

SGP SD SH SHB

SOG SFP SBP SXP

AZPT AZPT AZPR

SPAG SPCG SPFG

SPJG (No-mark)

SPUG

SNT

Spring Plunger Fittings for Vacuum Pads

вн

Bulkhead



1) Pad	Diameter(mm)
	2101110101(11111)

4985	
6	25
8	30
10	35
15	40
20	50

2	Stro	kel	mm
(OllO	VCI	

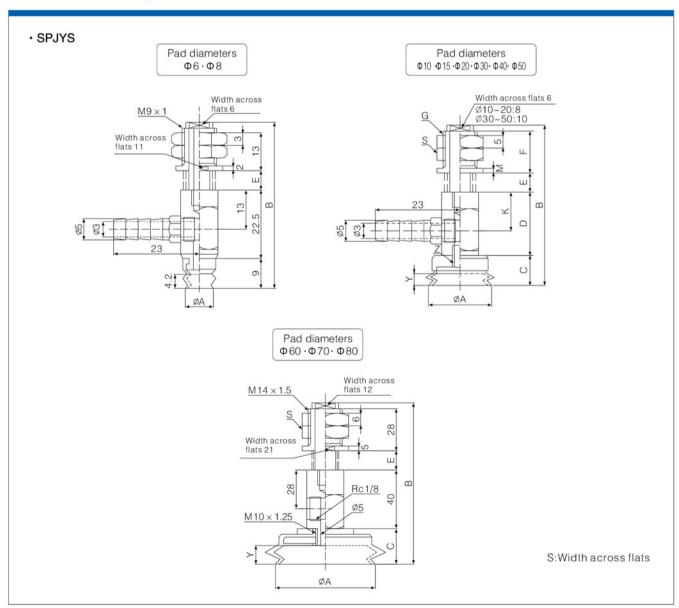
3	20
4	25
6	30
10	50
15	

3 Pad Material

Ν	Nitrile Rubber
S	Silicone



Dimensions (mm)



AIRBEST

SPJYS Series

SPJYS	Α	В	С	D	Е	F	G	K	S	М	Υ	Z
SPJYS-6-3	6	53.5	-	-	6	-	_	-	-	-	-	_
SPJYS-6-10	6	67.5	-	1-	20	-	-	-	-1		-1	-1
SPJYS-6-15	6	77.5	1-	7. -	30	-	-			-		-0
SPJYS-6-25	6	97.5	-		50	-	-					-
SPJYS-8-3	8	53.5	-	-	6		-	-	-		-	-
SPJYS-8-10	8	67.5	i	-	20	-	-	-	-		-	-
SPJYS-8-15	8	77.5	1 -	-	30	-				-	- 1	
SPJYS-8-25	8	97.5	S-2	8=	50		-	 0	 0	-		77.0
SPJYS-10-4	10	61.5	9.5	22	8	19	M11×P1	14	14H	3	3	M5
SPJYS-10-10	10	73.5	9.5	22	20	19	M11×P1	14	14H	3	3	M5
SPJYS-10-20	10	93.5	9.5	22	40	19	M11×P1	14	14H	3	3	M5
SPJYS-10-30	10	113.5	9.5	22	60	19	M11×P1	14	14H	3	3	M5
SPJYS-15-4	15	63	11	22	8	19	M11×P1	14	14H	3	4.5	M5
SPJYS-15-10	15	75	11	22	20	19	M11×P1	14	14H	3	4.5	M5
SPJYS-15-20	15	95	11	22	40	19	M11×P1	14	14H	3	4.5	M5
SPJYS-15-30	15	115	11	22	60	19	M11×P1	14	14H	3	4.5	M5
SPJYS-20-4	20	65	13	22	8	19	M11×P1	14	14H	3	5.5	M5
SPJYS-20-10	20	77	13	22	20	19	M11×P1	14	14H	3	5.5	M5
SPJYS-20-20	20	97	13	22	40	19	M11×P1	14	14H	3	5.5	M5
SPJYS-20-30	20	117	13	22	60	19	M11×P1	14	14H	3	5.5	M5
SPJYS-30-6	30	91	18	32	13	24	M14×P1.5	20	17H	4	8	M6
SPJYS-30-15	30	108	18	32	30	24	M14×P1.5	20	17H	4	8	M6
SPJYS-30-30	30	138	18	32	60	24	M14×P1.5	20	17H	4	8	M6
SPJYS-30-50	30	178	18	32	100	24	M14×P1.5	20	17H	4	8	M6
SPJYS-40-6	40	91	18	32	13	24	M14×P1.5	20	17H	4	8	M6
SPJYS-40-15	40	108	18	32	30	24	M14×P1.5	20	17H	4	8	M6
SPJYS-40-30	40	138	18	32	60	24	M14×P1.5	20	17H	4	8	M6
SPJYS-40-50	40	178	18	32	100	24	M14×P1.5	20	17H	4	8	M6
SPJYS-50-6	50	93	20	32	13	24	M14×P1.5	20	17H	4	9	M6
SPJYS-50-15	50	110	20	32	30	24	M14×P1.5	20	17H	4	9	M6
SPJYS-50-30	50	140	20	32	60	24	M14×P1.5	20	17H	4	9	M6
SPJYS-50-50	50	180	20	32	100	24	M14×P1.5	20	17H	4	9	M6
SPJYS-60-10	60	114.5	22.5		20	-	1-1		21H		10	M10×P1.25
SPJYS-60-30	60	154.5	22.5	-	60		-	-	21H		10	M10×P1.25
SPJYS-60-50	60	194.5	22.5	-	100		-		21H		10	M10×P1.25
SPJYS-60-70	60	234.5	22.5	8. 	140		-	 0	21H	-	10	M10×P1.25
SPJYS-70-10	70	115.5	23.5	S ==	20	, , , , ,	-		21H	-	11	M10×P1.25
SPJYS-70-30	70	155.5	23.5	10 70	60		-		21H	-	11	M10×P1.25
SPJYS-70-50	70	195.5	23.5	· -	100	-	-	-	21H	-	11	M10×P1.25
SPJYS-70-70	70	235.5	23.5		140	-	-	-	21H	-	11	M10×P1.25
SPJYS-80-10	80	115.5	23.5	-	20	-	-	-	21H	-	11	M10×P1.25
SPJYS-80-30	80	155.5	23.5	_	60	-	-	-	21H	-	11	M10×P1.25
SPJYS-80-50	80	195.5	23.5	1/2	100	_	_	_	21H		11	M10×P1.25
SPJYS-80-70	80	235.5	23.5		140	_	_		21H	=	11	M10×P1.25

TXC TXM SNP

SOP SB SBF

SBL

SF SU

STC

SFF SOB SOF

SOG SFP SBP

SXP

SD SH SHB

AZP AZPT

AZPR SPAG

SPCG SPFG SPJG

SPJG (No-mark)

SPUG

SNT

Spring Plunger Fittings for Vacuum Pads

Vacuum Pads

Bulkhead Connect



SPJG - 8 - N - PEEK

1 Applicable pad

	and the second s
8	PJG-8
10	PJG-10
15	PJG-15
20	PJG-20
25	PJG-25
30	PJG-30
35	PJG-35

40

2 Pad Material

Ν	Nitrile Rubber
S	Silicone



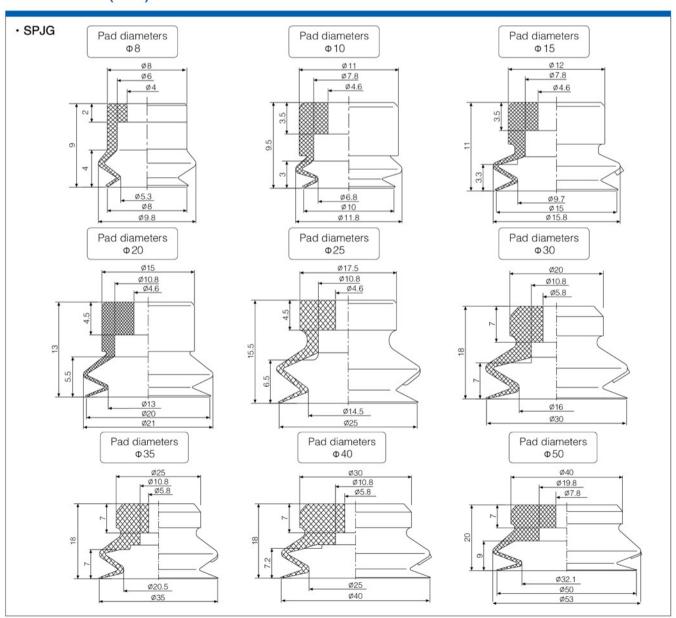
Features

☆ On the basis of the ruffle pad SPJG,we install the PEEK accessories to the pad core of the SPJG vacuum pad to prevent static, stick up with the adsorbing objects and adsorbing mark.

Dimensions (mm)

PJG-40

PJG-50



AIRBEST

How to Order

SPS - 6 - M - N

1 Pad Diameter(mm)

		96		
SP	SPFG			
6	25	6-J		
8	30	8-J		
10	35	10-J		
15	40	15-J		
20	50	20-J		
		30-J		
		40-J		
		50-J		

2 Connection thread

9	
М	Male thread
F	Female thread

3 Pad Material

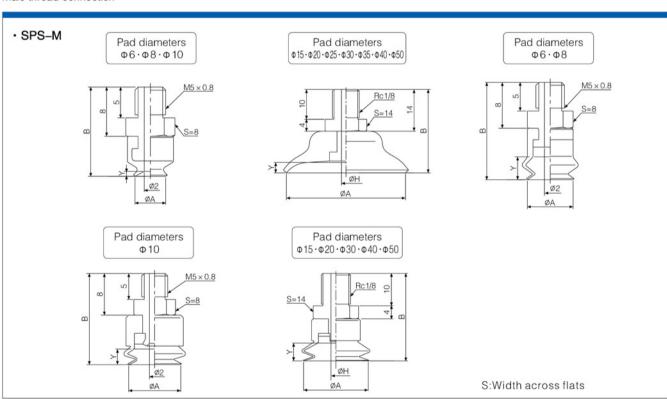


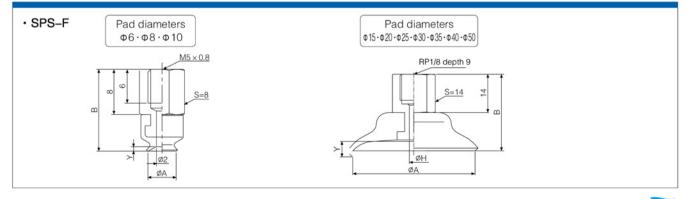
Features

- ☆ Add inner teeth and outer teeth fixed screw to SPF and SPJ vacuum pad. It is easy to install.
- ☆ It is fit to suck small-sized steel plate, glass and so on.

Dimensions (mm)

Male thread connection





TXC TXM

SNP

SB

SBF

SBL SBLP

SF

SU

STC

SOB

SOF

SOG

SBP

SXP

SGP

SD

SHB

AZP

AZPT

AZPR

SPAG

01 70

SPCG

SPFG

SPJG

SPJG (No-mark)

SPS

SPUG

SNT

Spring Plung

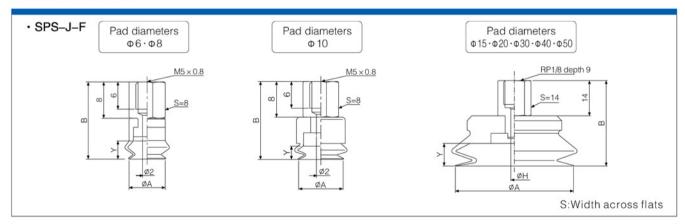
Fittings for Vacuum Pade

Rulkhear



SPS	A	В	Н	Y
SPS-6-M	6	14.5	7-7	0.8
SPS-8-M	8	15	1 - 1	1.2
SPS-10-M	10	15.5	1-1	1.5
SPS-15-M	15	22	2	1.9
SPS-20-M	20	24	3	2.3
SPS-25-M	25	28	3	3
SPS-30-M	30	26	3	2
SPS-35-M	35	28	3	3
SPS-40-M	40	28	3	3.5
SPS-50-M	50	29	4	4
SPS-6-J-M	6	17	7,7	4.2
SPS-8-J-M	8	17	95-0	4
SPS-10-J-M	10	17.5	1-1	3
SPS-15-J-M	15	25	2	3.3
SPS-20-J-M	20	27	2	5.5
SPS-30-J-M	30	32	3	7
SPS-40-J-M	40	32	3	7.2
SPS-50-J-M	50	34	4	9
SPS-6-F	6	14.5	7-7	0.8
SPS-8-F	8	15	1-1	1.2
SPS-10-F	10	15.5	7 - 1	1.5
SPS-15-F	15	22	2	1.9
SPS-20-F	20	24	3	2.3
SPS-25-F	25	28	3	3
SPS-30-F	30	26	3	2
SPS-35-F	35	28	3	3
SPS-40-F	40	28	3	3.5
SPS-50-F	50	29	4	4

Female thread connection



SPS	A	В	Н	Υ
SPS-6-J-F	6	17	1-1	4.2
SPS-8-J-F	8	17	1-1	4
SPS-10-J-F	10	17.5	20—2	3
SPS-15-J-F	15	25	2	3.3
SPS-20-J-F	20	27	3	5.5
SPS-30-J-F	30	32	3	7
SPS-40-J-F	40	32	3	7.2
SPS-50-J-F	50	34	4	9

TXC TXM

SNP SOP

SB

SBF

SBL

SBLP

SF SU

STC SFF

SOB SOF

SOG SFP

SBP

SXP

SGP SD SH

SHB

AZP AZPT **AZPR** SPAG

SPCG

SPFG SPJG

SPS

SPUG SNT Spring Plunge

Fittings for Vacuum Pads BH Bulkhead Connector Ball Joint

How to Order

SPUG -80 N 2

1) Pad Diameter(mm) 2 Pad Material

1000	
35	60
40	80
50	100

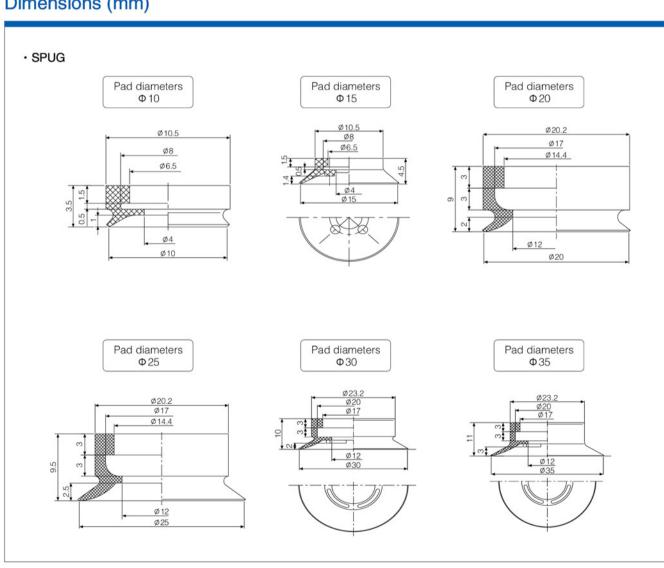
Ν	Nitrile Rubber
S	Silicone



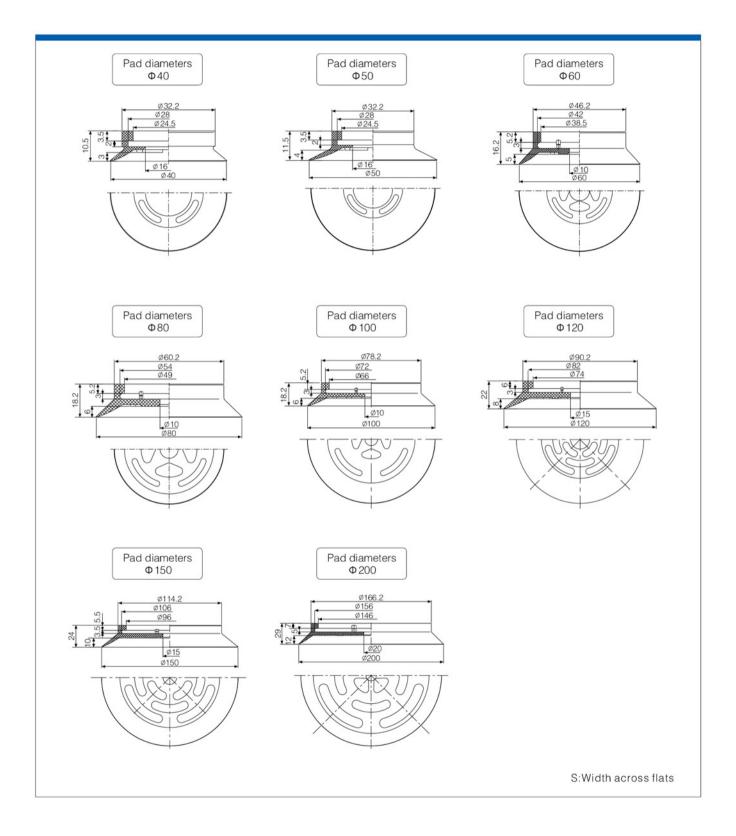
Features

- ☆ Parallel direction pad.
- ☆ Swivel type,can swing between 30 angle. It is flexibleto install and can save space.
- ☆ Design for special pad face, it is stable for sucking.

Dimensions (mm)







AIRBEST

How to Order

SPU - T KB 80 N 3

1 Vacuum entry direction

Vertical

Lateral

-	(2)	Pau	Dia	met	er(n	III

197	
35	60
40	80
50	100

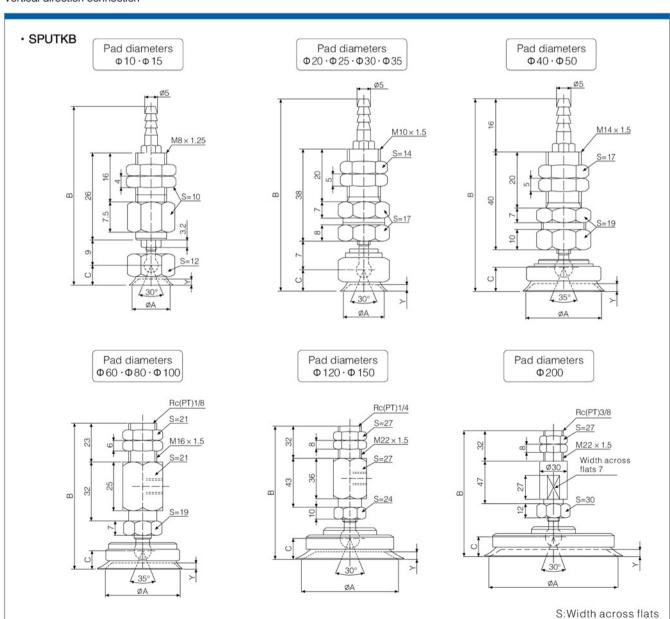
3 Pad Material

Ν	Nitrile Rubber
S	Silicone



Dimensions (mm)

Vertical direction connection



Vacuum Pads

SBF

SBL SBLP

SF

SU

STC

SFF

SOB SOF

SOG

SFP

SBP

SXP

SGP

SD

SH

SHB

AZP

AZPT

AZPR

SPAG

SPCG

SPFG

SPJG

SPS

SPUG

SNT

Spring Plunge

Fittings for Vacuum Pads

BH

Bulkhead Connector

SPUTKB / SPUYKB Series

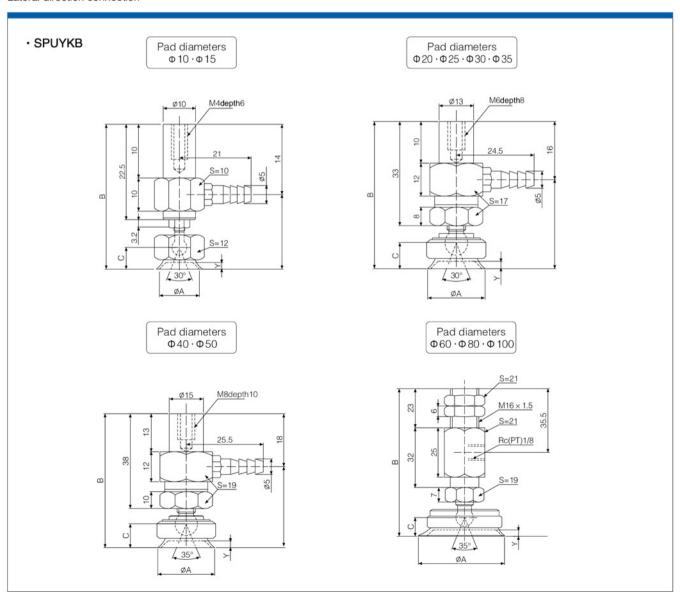


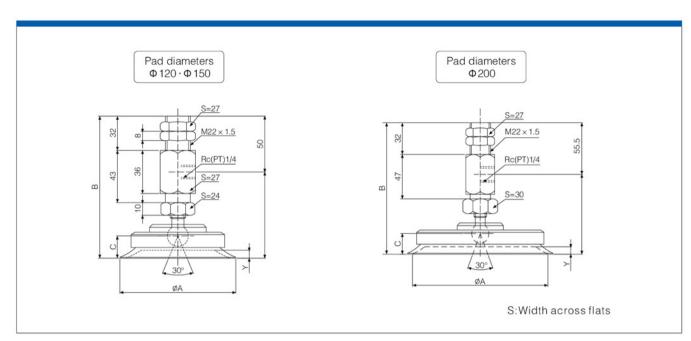


SPUTKB	A	В	С	Υ
SPUTKB-10	10	56	5	1
SPUTKB-15	15	57	6	1.4
SPUTKB-20	20	70	9	2
SPUTKB-25	25	70.5	9.5	2.5
SPUTKB-30	30	71	10	2
SPUTKB-35	35	72	11	3
SPUTKB-40	40	77	11	3
SPUTKB-50	50	78	12	4
SPUTKB-60	60	93	16	5
SPUTKB-80	80	95	18	6
SPUTKB-100	100	95	18	6
SPUTKB-120	120	128	23	8
SPUTKB-150	150	130	25	10
SPUTKB-200	200	140	29	12

Dimensions (mm)

Lateral direction connection





SPUYKB	A	В	С	Y
SPUYKB-10	10	36.5	5	1
SPUYKB-15	15	37.5	6	1.4
SPUYKB-20	20	49	9	2
SPUYKB-25	25	49.5	9.5	2.5
SPUYKB-30	30	50	10	2
SPUYKB-35	35	51	11	3
SPUYKB-40	40	59	11	3
SPUYKB-50	50	60	12	4
SPUYKB-60	60	93	16	5
SPUYKB-80	80	95	18	6
SPUYKB-100	100	95	18	6
SPUYKB-120	120	128	23	8
SPUYKB-150	150	130	25	10
SPUYKB-200	200	140	29	12

TXM

SNP

SB

SBF

SBL

SF

SU

STC

SOB

SOF SOG

SFP

SBP

SXP

SGP SD

SH

SHB

AZP

AZPT

AZPR

SPAG

SPCG

SPFG

SPJG

SPJG (No-mark)

SPS

SPUG

ONIT

SNT

Spring Plunger

Fittings for Vacuum Pads

ВН

Bulkhead Connector



1 Vacuum entry direction

T Vertical
Y Lateral

2 Pad Diameter(mm)

35	60
40	80
50	100

3 Pad Material

4	
6	
10	
15	
20	
30	
50	

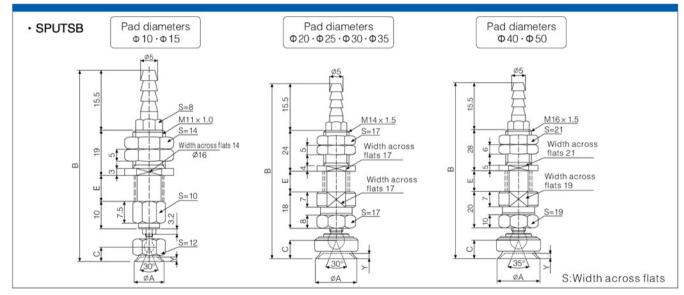
4 Pad Material

Ν	Nitrile Rubber
S	Silicone



Dimensions (mm)

Vertical direction connection

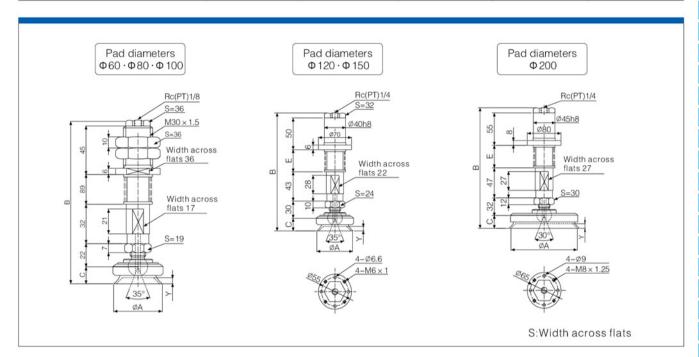


SPUTSB	A	В	С	E	Υ
SPUTSB-10-4	10	66.5	5	8	1
SPUTSB-10-10	10	78.5	5	20	1
SPUTSB-10-20	10	98.5	5	40	1
SPUTSB-10-30	10	118.5	5	60	1
SPUTSB-15-4	15	67.5	6	8	1.4
SPUTSB-15-10	15	79.5	6	20	1.4
SPUTSB-15-20	15	99.5	6	40	1.4
SPUTSB-15-30	15	119.5	6	60	1.4
SPUTSB-20-6	20	86.5	9	13	2
SPUTSB-20-15	20	103.5	9	30	2
SPUTSB-20-30	20	133.5	9	60	2
SPUTSB-20-50	20	173.5	9	100	2
SPUTSB-25-6	25	87	9.5	13	2.5
SPUTSB-25-15	25	104	9.5	30	2.5
SPUTSB-25-30	25	134	9.5	60	2.5
SPUTSB-25-50	25	174	9.5	100	2.5
SPUTSB-30-6	30	87.5	10	13	2
SPUTSB-30-15	30	104.5	10	30	2
SPUTSB-30-30	30	134.5	10	60	2
SPUTSB-30-50	30	174.5	10	100	2
SPUTSB-35-6	35	88.5	11	13	3
SPUTSB-35-15	35	105.5	11	30	3
SPUTSB-35-30	35	135.5	11	60	3
SPUTSB-35-50	35	175.5	11	100	3

SPUTSB / SPUYSB Series

				28	
SPUTSB	А	В	С	E	Υ
SPUTSB-40-6	40	97.5	11	13	3
SPUTSB-40-15	40	114.5	11	30	3
SPUTSB-40-30	40	144.5	11	60	3
SPUTSB-40-50	40	184.5	11	100	3
SPUTSB-50-6	50	98.5	12	13	4
SPUTSB-50-15	50	115.5	12	30	4
SPUTSB-50-30	50	145.5	12	60	4
SPUTSB-50-50	50	185.5	12	100	4

AIRBEST



SPUTSB	A	В	С	E	Υ
SPUTSB-60-10	60	144	16	23	5
SPUTSB-60-30	60	180	16	59	5
SPUTSB-60-50	60	210	16	89	5
SPUTSB-60-70	60	240	16	119	5
SPUTSB-80-10	80	146	18	23	6
SPUTSB-80-30	80	182	18	59	6
SPUTSB-80-50	80	212	18	89	6
SPUTSB-80-70	80	242	18	119	6
SPUTSB-100-10	100	146	18	23	6
SPUTSB-100-30	100	182	18	59	6
SPUTSB-100-50	100	212	18	89	6
SPUTSB-100-70	100	242	18	119	6
SPUTSB-120-20	120	206	23	53.5	8
SPUTSB-120-100	120	324	23	171.5	8
SPUTSB-150-20	150	208	25	53.5	10
SPUTSB-150-100	150	326	25	171.5	10
SPUTSB-200-20	200	255	29	54	12
SPUTSB-200-100	200	345	29	174	12

SBLP

SF

SU

STC

SFF

SOF

SOG SFP

SBP

SXP

SD

SH

SHB AZP

AZPT

AZPR SPAG

SPCG

SPFG SPJG

SPJG (No-mark

SPS SPUG

SNT

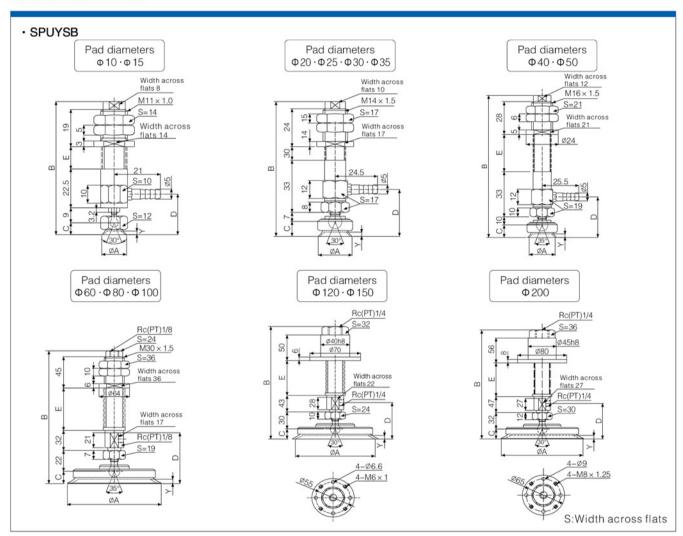
Spring Plunger Fittings for Vacuum Pads

ВН



Dimensions (mm)

Lateral direction connection



SPUYSB	А	В	С	D	E	Y
SPUYSB-10-4	10	66.5	5	22.5	8	1
SPUYSB-10-10	10	78.5	5	22.5	20	1
SPUYSB-10-20	10	98.5	5	22.5	40	1
SPUYSB-10-30	10	118.5	5	22.5	60	1
SPUYSB-15-4	15	67.5	6	23.5	8	1.4
SPUYSB-15-10	15	79.5	6	23.5	20	1.4
SPUYSB-15-20	15	99.5	6	23.5	40	1.4
SPUYSB-15-30	15	119.5	6	23.5	60	1.4
SPUYSB-20-6	20	90	9	33	13	2
SPUYSB-20-15	20	107	9	33	30	2
SPUYSB-20-30	20	137	9	33	60	2
SPUYSB-20-50	20	177	9	33	100	2
SPUYSB-25-6	25	90.5	9.5	33.5	13	2.5
SPUYSB-25-15	25	107.6	9.5	33.5	30	2.5
SPUYSB-25-30	25	137.5	9.5	33.5	60	2.5
SPUYSB-25-50	25	177.5	9.5	33.5	100	2.5
SPUYSB-30-6	30	91	10	34	13	2
SPUYSB-30-15	30	108	10	34	30	2

AIRBEST

SPUTSB / SPUYSB Series

SPUYSB	А	В	С	D	E	Y
SPUYSB-30-30	30	138	10	34	60	2
SPUYSB-30-50	30	178	10	34	100	2
SPUYSB-35-6	35	92	11	35	13	3
SPUYSB-35-15	35	109	11	35	30	3
SPUYSB-35-30	35	139	11	35	60	3
SPUYSB-35-50	35	179	11	35	100	3
SPUYSB-40-6	40	104	11	41	13	3
SPUYSB-40-15	40	121	11	41	30	3
SPUYSB-40-30	40	151	11	41	60	3
SPUYSB-40-50	40	191	11	41	100	3
SPUYSB-50-6	50	105	12	42	13	4
SPUYSB-50-15	50	122	12	42	30	4
SPUYSB-50-30	50	152	12	42	60	4
SPUYSB-50-50	50	192	12	42	100	4
SPUYSB-60-10	60	144	16	58	23	5
SPUYSB-60-30	60	180	16	58	59	5
SPUYSB-60-50	60	210	16	58	89	5
SPUYSB-60-70	60	240	16	58	119	5
SPUYSB-80-10	80	146	18	60	23	5
SPUYSB-80-30	80	182	18	60	59	6
SPUYSB-80-50	80	212	18	60	89	6
SPUYSB-80-70	80	242	18	60	119	6
SPUYSB-100-10	100	146	18	60	23	6
SPUYSB-100-30	100	182	18	60	59	6
SPUYSB-100-50	100	212	18	60	89	6
SPUYSB-100-70	100	242	18	60	119	6
SPUYSB-120-20	120	206	23	82	53.5	8
SPUYSB-120-100	120	324	23	82	171.5	8
SPUYSB-150-20	150	208	25	84	53.5	10
SPUYSB-150-100	150	326	25	84	171.5	10
SPUYSB-200-20	200	255	29	94	54	12
SPUYSB-200-100	200	345	29	94	174	1:

SNP SOP SB

SBF

SBLP SF SU

STC SFF SOB

SOF SOG SFP

SBP SXP SGP

SD SH

SHB AZP AZPT

AZPR

SPAG

SPCG SPFG

SPJG (No-mark)

SPS

SPUG SNT

Spring Plunger

Fittings for Vacuum Pads

Bulkhead



Features

- ♦Built-in special vacuum generation, no need vacuum pump
- ♦Vacuum pad floats when working, non-contact handling, particularly suitable for fragile workpieces
- ◇Low vacuum level, high vacuum flow, very good compensation for air leakage, little deformation of the workpieces
- ♦ Easy to seperate thin and porous workpieces

Applications

- ♦ Handling of fragile workpieces such as circuit boards, wafer and so on
- ♦ Handling and separation of thin and porous workpieces such as film and other fabrication without deformation
- ♦ Handling of very porous workpieces



Operating Principle

Model

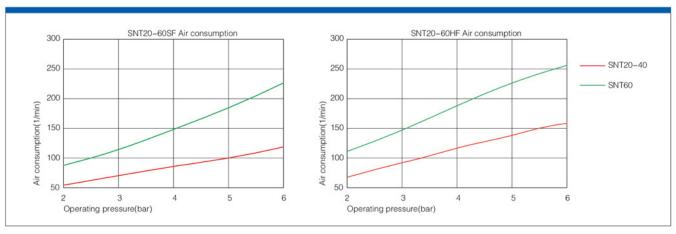
Model	Specification	Material	Streaming element
SNT	20、30、40、60	A-Aluminum D-Derlin	SF-Standard flow HF-High flow

△SNT30-A-HF

How to order

Streaming element Model	SF-Standard flow	HF-High flow
SNT20-A	215.0201.0000	215.0201.1000
SNT30-A	215.0301.0000	215.0301.1000
SNT40-A	215.0401.0000	215.0401.1000
SNT40-D	215.0402.0000	215.0402.1000
SNT60-A	215.0601.0000	215.0601.1000

Technical parameters



TXC

TXM

SNP

SOP

SB

SBF SBL SBLP

SF SU STC SFF SOB SOF SOF SBP SXP SGP SD

SH SHB

AZP AZPT

AZPR SPAG

SPCG

SPFG

SPJG (No-mark)

SPS SPUG

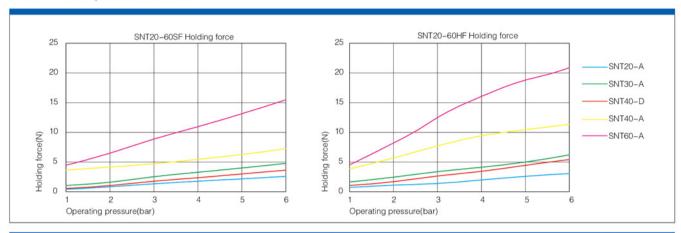
Spring Plunger

Fittings for Vacuum Pads

Bulkhead Connector



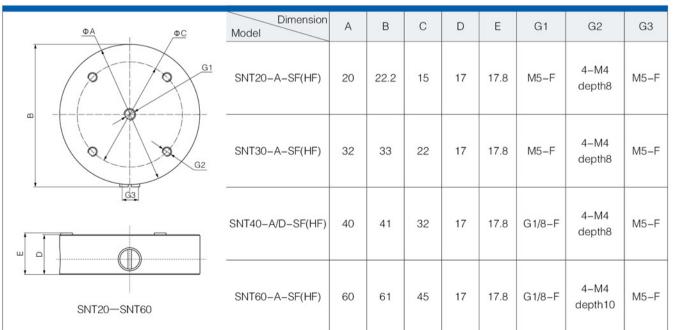
Technical parameters



Model	Holding force (N)	Air consumption (I/min)	Air supply pressure (bar)	Operating temperature (°C)	Weight (g)
SNT20-A-SF	2	100			12
SNT20-A-HF	3	140			12
SNT30-A-SF	4	100			31
SNT30-A-HF	5	140			31
SNT40-A-SF	6.5	100	1.0	20. 20	51
SNT40-A-HF	10.5	190	1~6	-20~80	51
SNT40-D-SF	3	100			29
SNT40-D-HF	4.5	190			29
SNT60-A-SF	13	150			118
SNT60-A-HF	18.5	225	1		118

 \triangle The specified values are valid for an operating pressure of 5 bar

Dimensions(mm)



200















1 Buffer style

Ε	External spring
Ι	Built-in spring

2	External spring buffer stroke
	10
	20

Built-in spring buffer stroke

R、B E、S	06、	10、	25	
V type	07、	15、	20	

3 Vacuum entry-External spring connection

Nil	Standard
Υ	Pipe connector

spring connection	n

Nil	Standard			
V	Female thread			
R	В	Refer to the		
E	S	outline dimension		

4 Mounting connection-male thread

Symbol	Male thread	Indent HEX
A8	M8 × 1	12
A10	M10×1	14
A12	M12×1	14

Remark: Vacuum pad port connection type

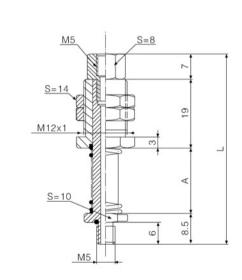
Model	Cuitable vascuum and madel			
Model	Suitable vacuum pad model			
R type	SB6X、SU1.5X、SU2X、SU4X			
B type	SU10(15)、SF15、SB10(12、15)			
E type	SU4(6、8)、SB5(8)			
S type	SU2(3)			



Features

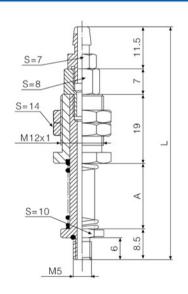
- ☆ With buffer spring,it can adjust height differences automatically when transfer the objects with height
- ☆ Various connection thread and different stroke, it is suitable for standard vacuum pad. Wide applications.
- ☆ Touch with the fragile workpiece flexibly, buffer the impact to the object.

Dimensions (mm)



KE5 10 -A12

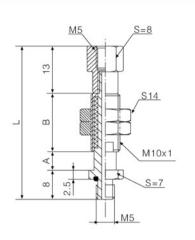
(mm) Buffer stroke 10 18 53 20 28 63

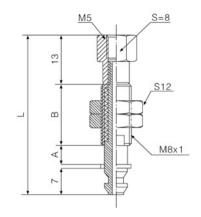


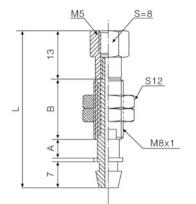
KE5 10 -Y-A12

(mm)

Buffer stroke	А	L
10	18	64
20	28	74







KI5 06 -A10

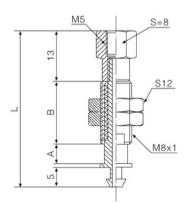
(mm)

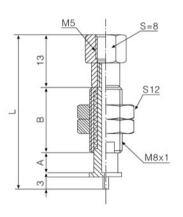
		~	` '
Buffer stroke	Α	В	L
6	6	15	42
10	10	44	75
25	25	44	90

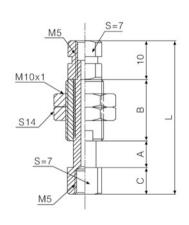
KI5	06	-R-A8
	-	

						٠.
- 1	r	Y	١,	~	٦	١
٠.	ı	н	ш	-1	н	,

Buffer stroke	Α	В	L
6	6	15	42
10	10	44	75
25	25	44	90



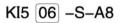




KI5 06 -E-A8

(mm)

Buffer stroke	Α	В	L
6	6	15	40
10	10	44	73
25	25	44	88



(mm)

Buffer stroke	Α	В	L
6	6	15	38
10	10	44	71
25	25	44	86

KI5 15 -V-A10

(mm)

Buffer stroke	Α	В	С	L
7	7	19	7	43
15	15	23	27	75
20	20	36	7	73

S:Width across flats

TXC TXM

SNP

SOP

SBF

SBL

SF SU

STC

SFF

SOB

SOG

SBP

SXP

SGP

SD

SHB

AZP AZPT

AZPR

SPAG

SPCG

SPFG SPJG

SPJG (No-mark)

SPS

SPUG

SNT

Fittings for Vacuum Pads

ВН

Bulkhead Connector Ball Joint



Κ



18



<u>L</u> -

A14

1 Buffer style

Е	External spring
I	Built-in spring

2 Buffer stroke

10
20
30
50

3 Vacuum entry connection

Nil	Standard	
L	Lateral exhaust	
٧	Female thread	

4 Mounting connection-Male thread

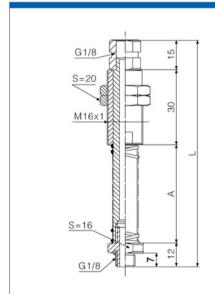
Symbol	Male thread	Indent HEX
A14	M14×1	19
A16	M16×1	20
A18	M18×1	22



Features

- ☆ With buffer spring,it can adjust height differences automatically when transfer the objects with height differences.
- ☆ Various connection thread and different stroke, it is suitable for standard vacuum pad. Wide applications.
- ☆ Touch with the fragile workpiece flexibly, buffer the impact to the object.

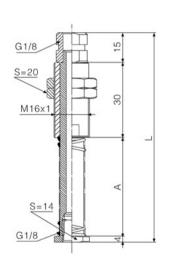
Dimensions (mm)





S=19 M14x1 S=15 G1/8

KE18 30 -L-A14



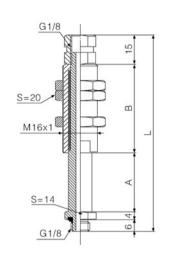
KE18 20 -V-A16

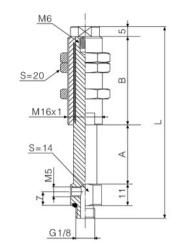
(mm)

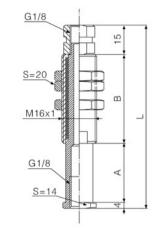
Buffer stroke	Α	L
10	20	77
20	35	92
30	50	107
50	70	127

| (mm)
Buffer stroke	A	L
10	20	69
20	35	84
30	50	99
50	70	119









KI18 20 -A16

(mm)

KI18 20 -L-A16

KI18 20 -V-A16

8			()
Buffer stroke	Α	В	L
10	10	25	60
20	20	35	80
30	30	45	100
50	50	65	140

			(mm)
Buffer stroke	Α	В	L
10	10	25	58
20	20	35	78
30	30	45	98
50	50	65	138

			(mm)
Buffer stroke	Α	В	L
10	10	25	54
20	20	35	74
30	30	45	94
50	50	65	134

TXC

SNP

SOP

SBF

SBL

SF

SU

STC

SFF

SOB

SOG

SFP

SBP

SGP

SD

SH

SHB

AZP AZPT

AZPR

SPAG

SPCG

SPFG

SPJG

SPJG (No-mark)

SPS

SPUG

SNT

opining r runny

Fittings for Vacuum Pads

ВН

Bulkhead Connector Ball Joint



K



14





A18

1 Buffer style

E External spring Built-in spring 2 Buffer stroke

10、20、30、50

3 Vacuum entry connection

Nil	Standard
V	Female thread

4 Mounting connection-Male thread

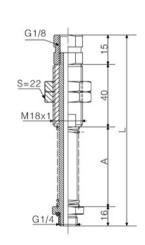
Symbol	Male thread	Indent HEX	
A18	M18×1	22	
A20	M20 × 1.5	24	

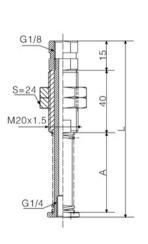


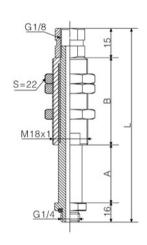
Features

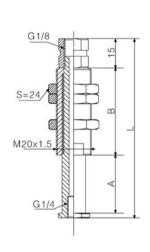
- ☆ With buffer spring,it can adjust height differences automatically when transfer the objects with height
- ☆ Various connection thread and different stroke, it is suitable for standard vacuum pad. Wide applications.
- ☆ Touch with the fragile workpiece flexibly, buffer the impact to the object.

Dimensions (mm)









KE14 20 -A18

KE14 20 - V -A20

KI14 20 -A18

KI14 20 - V -A20

(mm)

Buffer stroke	Α	L
10	20	91
20	35	106
30	50	121
50	70	141

(mm)

Buffer stroke	Α	L
10	20	80
20	35	95
30	50	110
50	70	130

(mm)

San and the san			
Buffer stroke	Α	В	L
10	10	25	66
20	20	35	86
30	30	45	106
50	50	65	146

(mm)

Buffer stroke	Α	В	L
10	10	25	55
20	20	35	75
30	30	45	95
50	50	65	135

AIRBEST

How to Order

K



38





1 Buffer style

Ε	External spring
I	Built-in spring

2 Rotary type

Nil	Rotating
K	Non-Rotating

Remark: When it is external spring(E), there is no non-rotating type

3 Buffer stroke

10	
20	
30	
50	

4 Mounting connection-Male thread

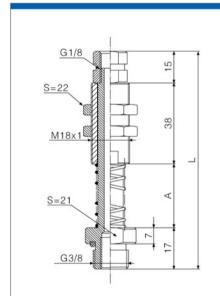
Symbol	Male thread	Indent HEX
A18	M18×1	22
A20	M20 × 1.5	24



Features

- ☆ With buffer spring,it can adjust height differences automatically when transfer the objects with height differences.
- ☆ Various connection thread and different stroke, it is suitable for standard vacuum pad. Wide applications.
- ☆ Touch with the fragile workpiece flexibly, buffer the impact to the object.
- reventing rotate function is alternative.

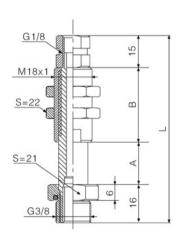
Dimensions (mm)



KE38 20 -A18

(mm)

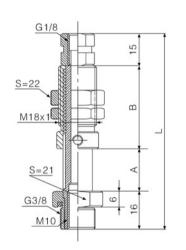
Buffer stroke	Α	L
10	20	90
20	35	105
30	50	120
50	70	140



KI38 20 -A18

(mm)

Buffer stroke В Α L 10 24 65 10 20 35 20 86 30 30 46 107 50 147



KIK38 20 -A18

(mm)

Buffer stroke	Α	В	L
10	10	28	69
20	20	39	90
30	30	50	111
50	50	70	151
30	30	50	111

TXC TXM

SNP SOP

SB

SBF SBL

SBLP SF

SU

STC SFF

SOB SOF

SOG

SBP SXP

SFP

SGP SD

SH SHB

AZP AZPT

AZPR SPAG

SPCG

SPFG SPJG

SPJG (No-mark)

SPS **SPUG**

SNT

BH

K12 Series

How to Order

AIRBEST













1 Buffer style

Е	External spring
I	Built-in spring

10 20 30 50

2 Buffer stroke

3 Vacuum entry connection

Nil	Standard
L	Lateral exhaust

4 Mounting connection-Male thread

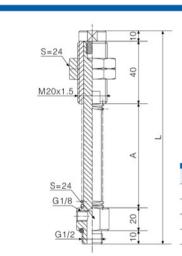
Symbol	Male thread	Indent HEX
A18	M18 × 1	22
A20	M20 × 1.5	24
A22	M22 × 1.5	26



Features

- ☆ With buffer spring,it can adjust height differences automatically when transfer the objects with height differences.
- ☆ Various connection thread and different stroke,it is suitable for standard vacuum pad.Wide applications.
- ☆ Touch with the fragile workpiece flexibly, buffer the impact to the object.

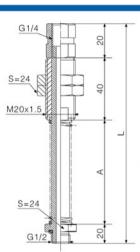
Dimensions (mm)





Buffer stroke A L

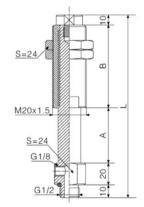
10 20 100
20 35 115
30 50 130
50 90 170



KE12 30 -A20

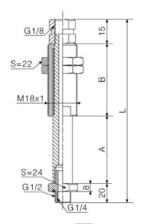
(mm)

Buffer stroke	Α	L
10	20	100
20	35	115
30	50	130
50	90	170



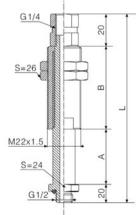
KI12 30 -L-A20

Buffer stroke	Α	В	L
10	10	30	80
20	20	35	95
30	30	50	120
50	50	70	160



KI12 30 -A18 (mm)

Buffer stroke	Α	В	L
10	10	30	75
20	20	35	90
30	30	50	115
50	50	70	155



KI12 30 -A22

(mm)

Buffer stroke	Α	В	L
10	10	30	80
20	20	35	95
30	30	50	120
50	50	70	160

TXC TXM SNP SOP SB SBF SBL SBLP SF SU STC SFF SOB SOF SOG SFP SBP SXP SGP SD SH SHB AZP AZPT **AZPR** SPAG **SPCG** SPFG SPJG SPJG (No-mark) SPS **SPUG** SNT Spring Plunger



Fittings	Vacuum pad model	Fittings	Vacuum pad mode
M2.5-M Ordering code:10.025.0001 (7625001)	SU2、SU3	M5–F Ordering code:10.005.0007 (7605007)	AZP10 AZP13 AZP16
M5-M Ordering code:10.005.0001 (7605001)	SU2、SU3	M5-M Ordering code:10.005.0009	SBP10PU SBP15PU
M5-M Ordering code: 10.005.0003 (7605003)	SU4、SU6、SU8 SB5、SB8	M5/18–MF Standard: 10.518.0101 Built in mesh–filter: 10.518.0001 (7651801) Built in efficiency valve: 10.518.0201	SU20、SU25、SU3 SF20、SF25、SF30 SB17、SB20 SBL20
M5-M Ordering code: 10.005.0004 (7605004)	SU10、SU15 SF15 SB10、SB12、SB15 SBL15	M5/18–MFA Standard: 10.518.0102 Built in mesh-filter: 10.518.0002 (7651802) Built in efficiency valve: 10.518.0202	SU20、SU25、SU3 SF20、SF25、SF30 SB17、SB20 SBL20
M5-F Ordering code: 10.005.0006 (7605006)	AZP20 AZP25 AZP32	M5/18–MFI Ordering code:10.518.0003 (7651803)	SU20、SU25、SU3 SF20、SF25、SF30 (For silicone mat'l)

BH

Fittings for Vacuum Pads



Fittings	Vacuum pad model	Fittings	Vacuum pad model
M5/18–MFL Ordering code: 10.518.0004	SB17、SB20、SBL20 (For silicone mat'l)	18–F Standard: 10.018.0103 Built in mesh–filter: 10.018.0003 (7618003)	SU40 SF40 SB30、SB40 SBL30、SBL40
5xM5-F Standard: 10.005.0008 Built in mesh-filter: 10.005.0108 Built in efficiency valve: 21.4 10.005.0208	SU20、SU25、SU30 SF20、SF25、SF30 SB17、SB20 SBL20	18–F Standard: 10.018.0104 Built in mesh–filter: 10.018.0004 (7618004) Built in efficiency valve: 01/61/8 10.018.0204	SU50 SF50 SB50 SBL50
5-18-F Standard: 10.518.0005 Built in mesh-filter: 10.018.0112 Built in efficiency valve:	SU40 SF40 SB30、SB40 SBL30、SBL40	18–F Standard: 10.018.0105 Built in mesh–filter: 10.018.0005 (7618005) Built in efficiency valve: G1/8 10.018.0205	SU50 SF50 SB50 SBL50
5-18-F Standard: 10.518.0006 Built in mesh-filter: 10.018.0113 Built in efficiency valve: 36 10.018.0213	SU50 SF50 SB50 SBL50	18–M Standard: 10.018.0106 Built in mesh–filter: 10.018.0006 (7618006) Built in efficiency valve:	SU40 SF40 SB30、SB40 SBL30、SBL40
18–F Standard: 10.018.0101 Built in mesh–filter: 10.018.0001 (7618001) Built in efficiency valve: 10.018.0201	SU20、SU25、SU30 SF20、SF25、SF30 SB17、SB20 SBL20	18–F Standard: 10.018.0107 Built in mesh–filter: 10.018.0007 (7618007)	SPS 1
18–F Standard: 10.018.0102 Built in mesh–filter: 10.018.0002 (7618002) Built in efficiency valve: 10.018.0202	SU40 SF40 SB30、SB40 SBL30、SBL40	18-F Ordering code:10.018.0008 (7618008)	SPS 5 SPS 5–15

TXC TXM SNP SOP SB SBF SBL SBLP SF SU STC SFF SOB SOF SOG SFP SBP SXP SGP SD SH SHB AZP AZPT **AZPR** SPAG **SPCG** SPFG SPJG

Vacuum Pads

Fittings for Vacuum Pads

Fittings	Vacuum pad model	Fittings	Vacuum pad model
18–F Standard: 10.018.0109 Built in mesh–filter: 10.018.0009 (7618009)	SPS 9	14–M Standard: 10.014.0101 Built in mesh–filter: 10.014.0001 (7614001) Built in efficiency valve: 10.014.0201	SU40 SF40 SB30、SB40 SBL30、SBL40
18–F Ordering code: 10.018.0011 (7618011) 0-60 0-45 G1/8 G1/8 Circle diameter Φ35	SB75 SF75、SF90 SFC90、SFC100	14–M Standard: 10.014.0102 Built in mesh–filter: 10.014.0002 (7614002) Built in efficiency valve: 10.014.0202	SU50 SF50 SB50 SBL50
18-M Ordering code: 10.018.0012	SBP20PU SBP30PU SBP40PU SXP20PU SXP25PU SXP30PU SFP20PU SFP30PU SFP40PU SGP25PU SGP35PU SGP45PU	14–F Ordering code:10.014.0003 (7614003) 060 045 G1/4 4–M4 depth 9 Circle diameter 035	SB75 SF75、SF90 SFC90、SFC100
18–F Ordering code: 10.018.0013	SBP20PU SBP30PU SBP40PU SXP20PU SXP25PU SXP30PU SFP20PU SFP30PU SFP40PU SGP25PU SGP35PU SGP45PU	14-M Ordering code:10.014.0004	SXP35PU SXP40PU
18-FA Ordering code: 10.018.0010 (7618010)	SU40 SF40 (For silicone mat'l)	14–F Ordering code:10.014.0005	SXP35PU SXP40PU
18-FL Ordering code: 10.018.0014	SB30、SB40 SBL30、SBL40 (For silicone mat'l)	38–M Standard: 10.038.0101 Built in mesh–filter: 10.038.0001 (7638001) Built in efficiency valve: 33/8 10.038.0201	SU50 SF50 SB50 SBL50

AIRBEST

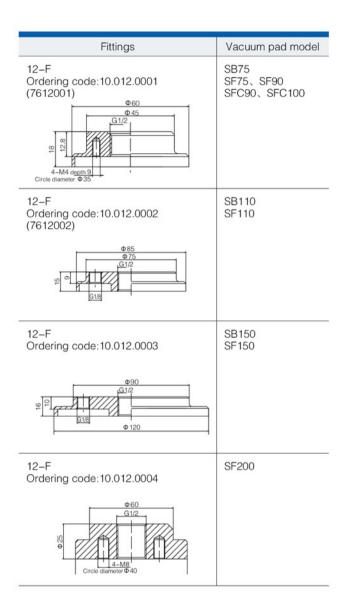
SPS **SPUG** SNT Spring Plunger

Ball Joint

Fittings for Vacuum Pads



Fittings	Vacuum pad model
38–F	SB75
Ordering code: 10.038.0002	SF75、SF90
(7638002) 060 045 G3/8 G3/8 Circle diameter 035	SFC90、SFC100
38-M Ordering code: 10.038.0003	SBP50PU SXP50PU SGP55PU
38–F Ordering code: 10.038.0004	SBP50PU SXP50PU SGP55PU
38-M	SBP70
Ordering code: 10.038.0005	SXP70
38–F(NPSF)	SBP70
Ordering code: 10.038.0006	SXP70
38–F	SBP70
Ordering code: 10.038.0007	SXP70



AIRBEST

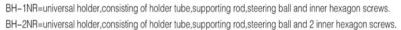
Features

- ☆ Adjustment and fixing with ball clamp. Flexible use, rapid changing short set-up times.
- ☆ Adjustable height and inclination. Flexible adaptation to work pieces with, for example curved metal sheets(car bodywork parts)
- ☆ Suitable for mounting on square and round tubes. For universal use.
- ☆ Vacuum pads can be screwed directly into the G1/4" thread.

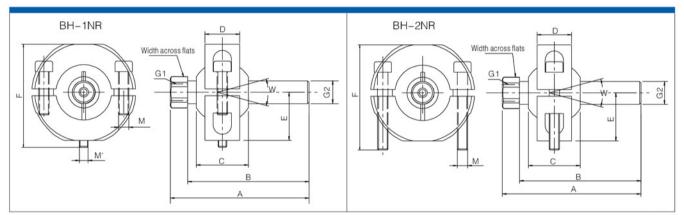
 Quick and cheap construction of a load cross-beam.

How to Order

Model	Ordering Code
BH-1NR	13.012.0001
BH-2NR	13.022.0001
BH-STB	13.030.0001
BH-STC	13.032.0001
BUCHSE-PA	13.025.0001

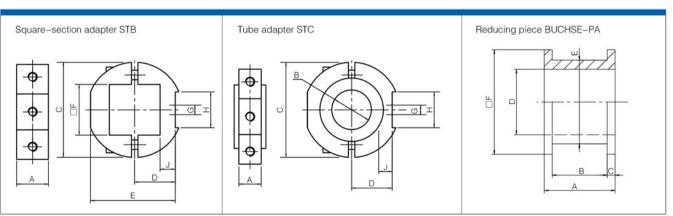


Dimensions (mm)



(mm)

Model	А	В	С	D	Е	F	G1	G2	М	M'	W	S
BH-1NR	80	70	55.6	20	27.5	59.5	G1/8	G1/4	M6	M5	30°	17
BH-2NR	80	70	55.6	20	27.5	61	G1/8	G1/4	M6	-	30°	17



(mm)

Model	А	В	С	D	E	□F	G	Н	J
BH-STB	20	_	58.9	25	52.5	30.5	M6	20.1	10
BH-STC	20	Ф32	58.9	25	_	-	M6	20.1	12
BUCHSE-PA	27	21	3	25	32	40	12	-	_

212

TXC TXM

SNP

SOP

SBF SBL

SBLP

SF SU

STC

SFF

SOB

SOG

SFP SBP

SXP

SD

SHB

AZP AZPT

AZPR SPAG

SPCG SPFG

SPJG

SPJG (No-mark)

SPS SPUG

SNT

Spring Plung

Fittings for Vacuum Pads

Bulkhead Connector Ball Joint

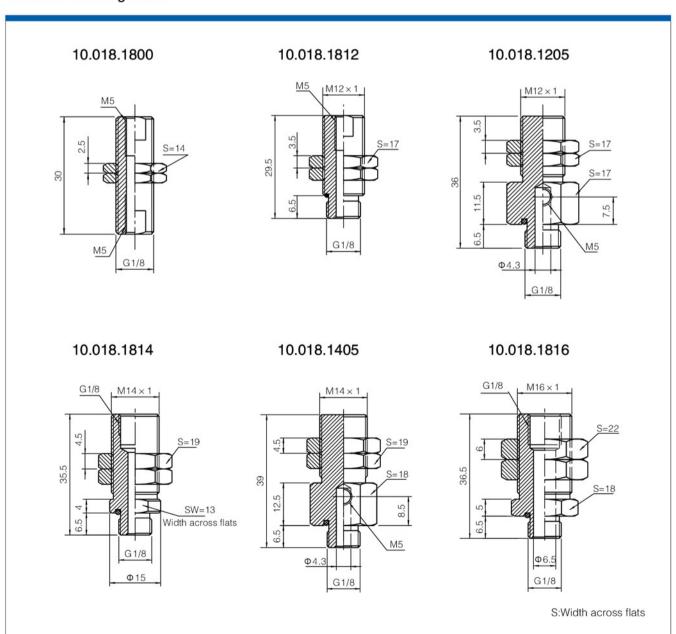


- All Vacuum pads and fittings can be screwed in.
- ☆ Various locking nuts included, flats for spanner on external thread.
- ☆ Permits precise adjustment of the vacuum pad position.
- A No further mounting elements needed, high stability.



Dimensions (mm)

18 series Ordering Code



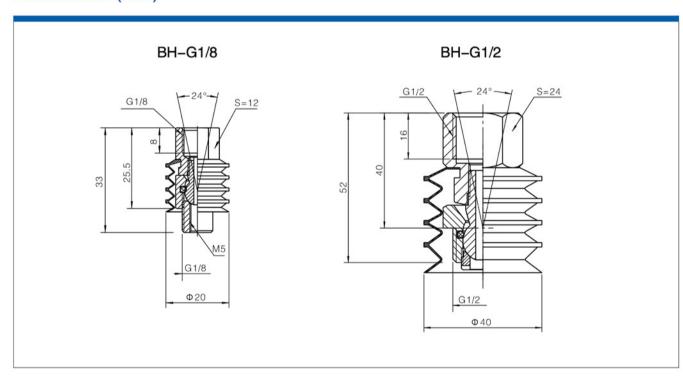
- ☆ Fully flexible mounting of vacuum pads and vacuum plates.
- ☆ Very good adaptation to sloping workpiece surface.
- ☆ Vacuum-tight design with integrated protection against damage.
- $\stackrel{\mbox{\tiny Δ}}{}$ Reduced wear on vacuum pads when they are placed on sloping surface.



Technical Parameters

Model	Thread Size	Angle	Max.Load (kg)	Weight (g)
BH-G1/8	G1/8	± 12°	25	20
BH-G1/2	G1/2	± 12°	50	113

Dimensions (mm)



TXC

SNP

SOP

SB SBF

SBL

SBLP

SF SU

00

STC

SOB

SOF

SOG

SFP

SBP

SXP

SGP

SD SH

SHB

AZPT

AZPR

SPAG

SPCG

SPFG

SPJG

3130

SPJG (No-mark)

SPUG

SNT

-1-0

Fittings for Vacuum Pads

BH

Ball Join



Vacuum Accessories



Pneumatic Vacuum Switch	AVS Series	216–216
Pneumatic Control Valve	APS-8 Series APL Series	
Electric Control Valve	APE Series	219–219
Pressure Switch	RL3 Series	
Silencer	ABS Series	227–227
Vacuum Gauge	AB168 Series	228–228

How to Order

AIRBEST



1 Model

AVS

2 Function

212-Normally closed 213-Normally open

Function	Adjustable
NC (normally closed)	P- 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NO (normally open)	P- 2 1

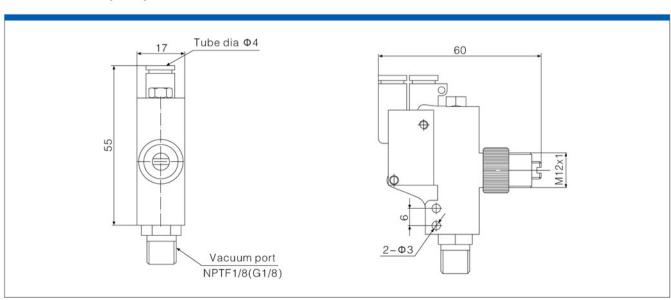


Features

- ☆ The vacuum switch converts vacuum signal into pneumatic signal.
- ☆ There are two different functional valves:normally open valve and normally closed valve.

Specifications

	No.	
Model	AVS-212	AVS-213
Output function	NC(Normally closed)	NO(Normally open)
Pressure(bar)	1.9	5~8
Signal range(-kPa)	15~95	10~95
Hysteresis(kPa)	12	3
Temperature(°C)	-10~	+60°C
Weight(g)	4	14
Vacuum connection	NPTF1/8	G1/8



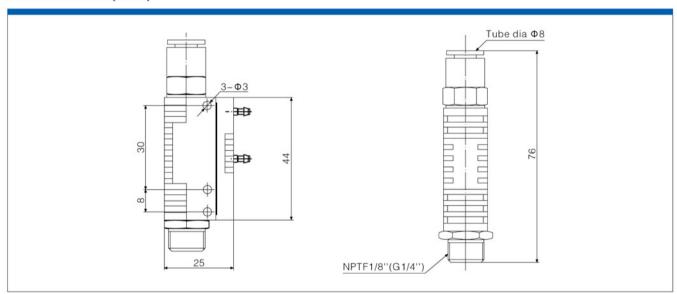




Specifications

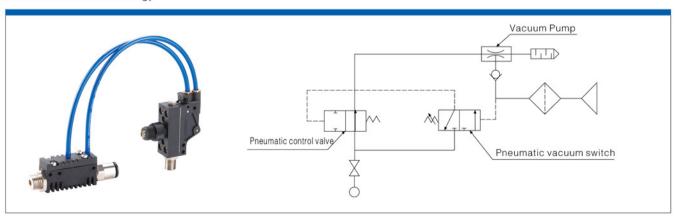
A.1.		4.0
Air supply pressure	bar	1–8
Working temperature	℃	0-60
Control mode		Pneumatic control
Action mode		Normally open
Weight	g	55

Dimensions (mm)



Energy saving system(ES)

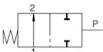
The control valve (APS-8) works together with vacuum switch(AVS). The vacuum switch provides air control signal to open and close the control valve. It will save energy.



AIRBEST

Features

☆2 position 2 way directional valve (normally open)with 1/8 and 1/4 air inlet realizes the opening and closure of air supply and energy saving through vacuum switch returns air signal. The small valve can control high flow compressed air.



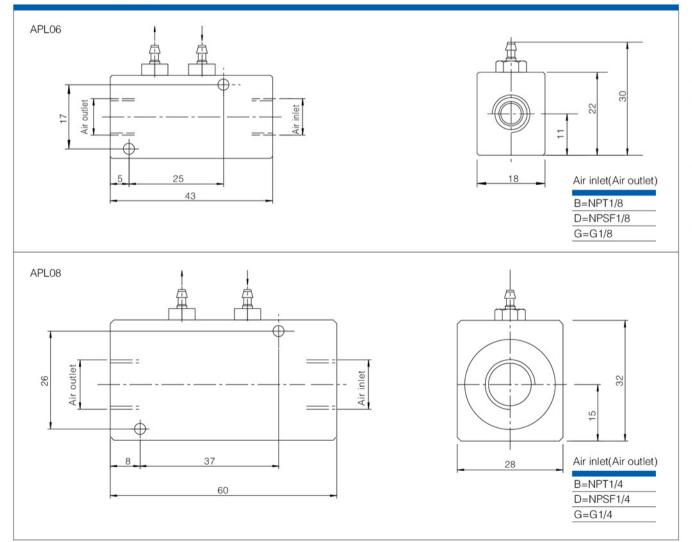
How to Order

APL06 - D

1 Model	APL06	APL08	
@F	B=NPT1/8	D=NPSF1/8	G=G1/8
2Function	NPT1/4	NPSF1/4	G1/4

Specifications

Air supply pressure	3.5~7bar
Ambient temperature	0~60°C
Valve body material	Aluminum





How to Order

APE06 - G-1-2 1 2 3 4

1)Model	APE06	APE08	
@F	B=NPT1/8	D=NPSF1/8	G=G1/8
2Function	NPT1/4	NPSF1/4	G1/4

3 Rated voltage 4 Lead wire type

	3
1	DC24V
2	AC110V
3	AC220V

1	DIN type without lead wire
2	DIN type with lamp without lead wire



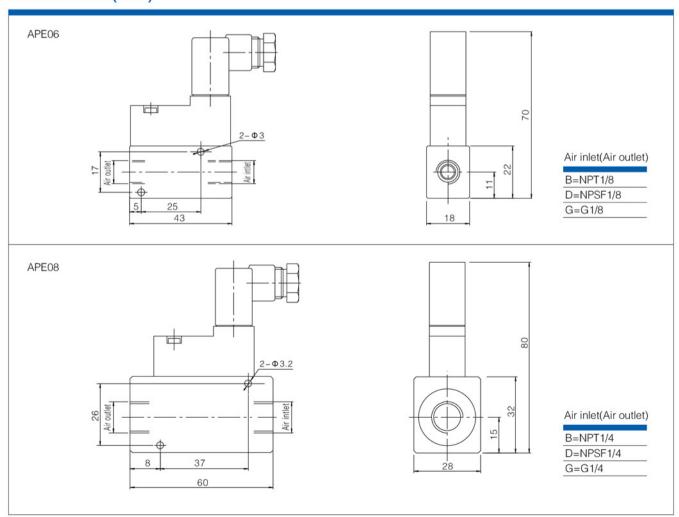
Features

☆ The small solenoid valve normally closed can remote control compressed air with large flow, and supply compressed air when the

current is switched on.

Specifications

Air supply pressure	3.5~7bar
Ambient temperature	0~60℃
Valve body material	Aluminum
Working Voltage	DC: 24V AC: 110V, 220V -50/60Hz
Current consumption	0.85W, 1.3W



AIRBEST

Features

- ☆ 7 User Programmable Units Available
- ☆ 2 NPN/PNP Open Collector + Analog Output (1~5V or 4~20mA)
- ☆ 3-Color Digital LCD Display
- ☆ Repeatability ± 0.2% F.S. ± 1 digit
- ☆ Max. 20% energy saving
- ☆ Quick Installation (NEW)
- ☆ Copy Setting (NEW)



Specifications

TYPE KP43P (Positive) KP43V (Vacuum) KP43C (Com				KP43C (Compound)			
Rated pressure	range	0.0~1.000MPa	-101.3~0.0kPa	-100.0~100.0kPa			
Set pressure range		-0.100~1.000MPa	-101.3~10.0kPa	-101.0~101.0kPa			
Withstand pressure		1.5MPa	300kPa				
Fluid		Air, Non-corrosive / Non-flammable gas					
	kPa	- 0.1					
Set pressure	MPa	0.001	0.001 –				
	kgf/cm ²	0.01	.001				
	bar	0.01	0.01 0.001				
resolution	psi	0.1 0.01					
	inHg	_	0.1				
	mmHg	_	1				
Power supply v		12 to	24V DC ± 10%, Ripple (P-P) 10%	or less			
Current consun			≤40mA(With no load)				
Switch output		Max. load current: 125mA Max Max. supply voltage: 30V DC Max.		open collector 2 outputs ax. load current: 125mA . supply voltage: 24V DC esidual voltage: ≤1.5V			
Repeatability(Switch output)		±0.2% F.S. ±1 digit					
One point set mode							
Hysteresis	One point set mode	Adjustable(*1)					
	Window comparator mode						
Response time		2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selections)					
Output short cir	rcuit protection	Yes					
7 segment LCE) display	Two color(Red/Green) main &	unit display, Orange sub-display	(Sampling rate: 5 times/1sec.)			
Indicator accur	acy	±2% F.S. ±1 digit (ambient temperature: 25 ±3°C)					
Switch ON Indi	cator	Orange(1&2 Indicator) OUT1 OUT2					
Analog output ((Voltage Output) (*2)	Output Voltage: 1 to 5V \pm 2.5% F.S. (within rated pressure range) Linearity: \pm 1%F.S. Output impedance:about 1k Ω					
Analog output (Current Output) (*3)		Output Current: 4 to 20mA ± 2.5% F.S.(within rated pressure range) Linearity: ± 1% F.S. Max.Load Impedance:300 Ω at power supply of 12V 600 Ω at power supply of 24V Min.Load impedance:50 Ω					
	Environment		IP40				
	Ambient temp. range	Operation: 0 ~ 50	°C, Storage:-10 ~ 60°C(No conde	nsation or freezing)			
	Ambient humidity range	Operation/Storage: 35 ~ 85% RH (No condensation)					
Environment	Withstand voltage	1000V AC in 1-min (between case and lead wire)					
	Insulation resistance	50MΩ min. (at 500V DC, between case and lead wire)					
	Vibration	Total amplitude 1.5mm or 10G,10H	Total amplitude 1.5mm or 10G,10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X, Y a				
	Shock	100m/s2(10G), 3 times each in direction of X, Y and Z					
Temperature ch	haracteristic	± 2.5% F.S. of detected pressure (25°C) at temp. Range of 0~50°C					
Port size		F1 : R1/8", M5 ; F2 :NPT1/8", #10-32UNF ; F3 : G1/8", M5					
Lead wire		Oil-resistance cable(0.15mm²)					
Weight		Approx. 80g (with 2 meter lead wire)					
		Approx. 80g (with 2 meter lead wire)					

(NOTE) *1: Hysteresis value is adjustable within 1 ~ 8 digits for one point set mode and window comparator mode.

*2: If analog voltage output is selected, the analog current output cannot be selected at the same time.

*3: If analog current output is selected, the analog voltage output cannot be selected at the same time.



How to Order

1 Pressure Range

② Output Specifications

- C Compound (-101.0~101.0 kPa)
- V Vacuum (10.0~-101.3 kPa)
- P Positive (-0.100~1.000 MPa)
- 010 2 NPN+Analog (Voltage) output (1~5V)
- 011 2 NPN+Analog (Current) output (4~20mA)
- 030 2 PNP+Analog (Voltage) output (1~5V)
- 031 2 PNP+Analog (Current) output (4~20mA)

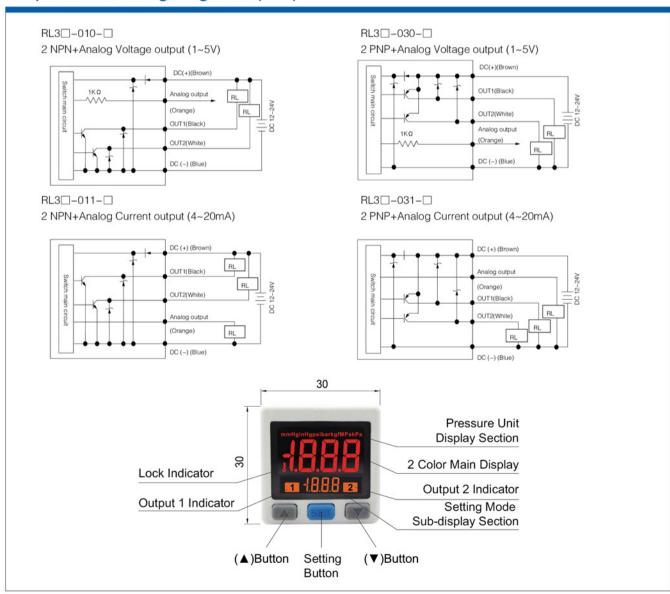
3 Pressure port

Pressure port

F1	R1/8", M5
F2	NPT1/8", #10-32UNF
F3	G1/8", M5

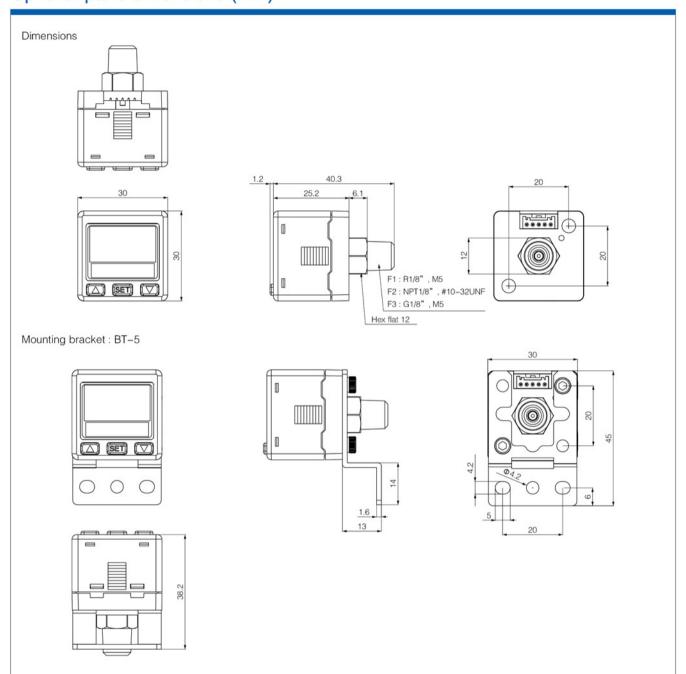
BT-5 Mounting bracket BT-6 Mounting bracket PA-C Panel adapter PA-D Panel adapter + Front protective lid

Output circuit wiring diagrams (mm)



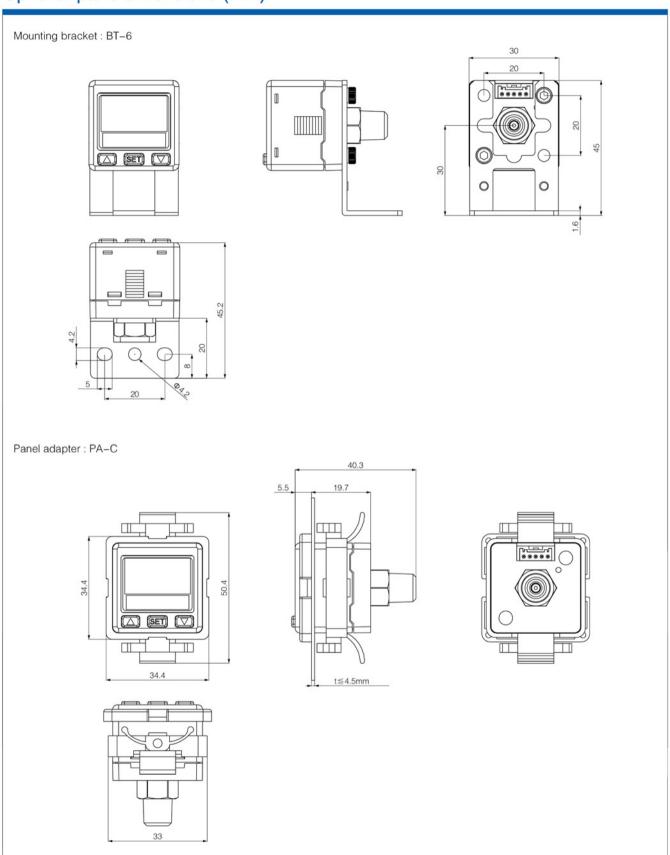
AVS

Optional parts dimensions (mm)



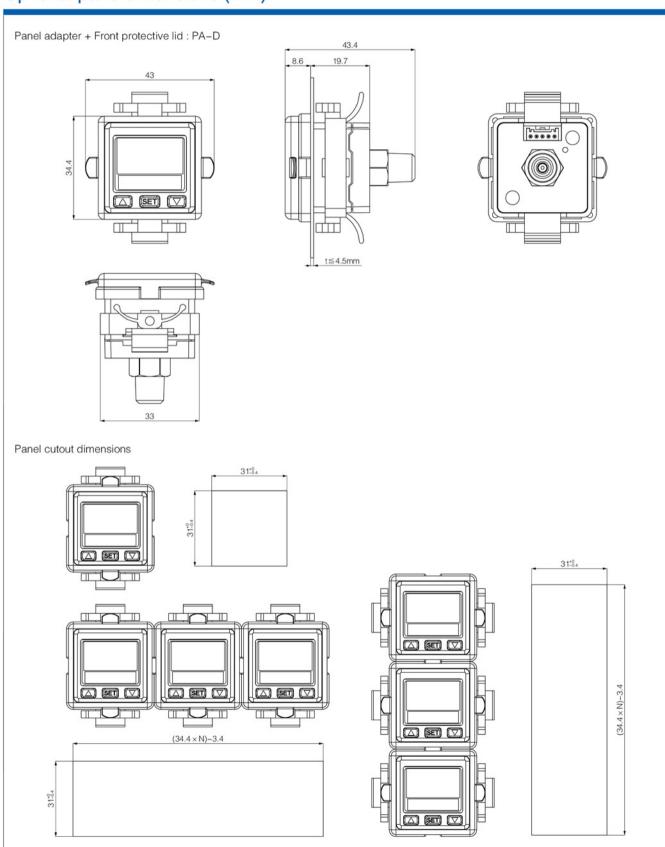


Optional parts dimensions (mm)



AVS

Optional parts dimensions (mm)





☆Pressure range: Compound(-100.0~100.0kPa)

Vacuum(0.0~-101.3kPa) Positive(-0.100~1.000MPa)

- ☆Two switch output & one analog output.
- ☆ Hysteresis adjustable.
- ☆ High accuracy and resolution.
- ☆Low cost.



Technical Parameters

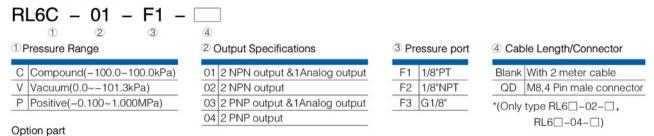
	Model	RL6C(Compound)	RL6V	((Vacuum)	RL6P(Positive)	
Rated pressure range		-100.0~100.0kPa		-101.3kPa	0.000~1.000 MPa	
Setting pressure range		-100.0~100.0kPa	10.0~	-101.3kPa	-0.100~1.000 MPa	
Withstand pressure		300 kPa			1.5MPa	
Fluid		Air,Non-corrosive gases,incombustible gases				
	kPa	0.1			_	
	MPa	-			0.001	
	kgf/cm ²	0.001			0.01	
Set pressure	bar	0.00	0.01			
resolution	psi	0.01			0.1	
	InHg	0.1	_			
	mmHg	1			_	
	mmH₂O	0.1			_	
Power supply voltage				Ripple(P-P)10% or	less	
Current consu				55mA		
		NPN:open collector 2 outp	uts	PNP:open	collector 2 outputs	
		Max.load current: 80mA		Max.load o	current: 80mA	
Switch output		Max.supply voltage: 30VE	C		y voltage: 24VDC	
o milioni o anpian		Residual voltage: ≤1V		Residual voltage: ≤1V		
		(load current 80mA)		(load current 80mA)		
Repeatability(Switch output)		(idad danon don y) ≤ ± 0.2%F.S. ± 1digit				
Hysteresis mode		Adjustable				
Hysteresis	Window comparator mode	Fixed(3 digits)				
Response tim		≤2.5ms(chattering-proof function: 24ms,192ms and 768ms selections)				
	circuit protection	Yes				
7 segment LE		3 1/2digit LED display (Sampling rate:5 times/1sec)				
Indicator accu		≤ ±2% F.S. ±1 digit(ambient temperature: 25±3°C)				
Indicator		Green LED(OUT1), Red LED(OUT2)				
Analog output			(
Analog output		Output voltage:		Output voltage:	Contability and an analysis and an analysis	
(only type RL6		1 to 5V ≤ ±5%F.S.(within rated pre	ssure range)		S.(within rated pressure range)	
RL6 -03-)	Linearity: $\leq \pm 1\%$ F.S. Linearity: $\leq \pm 1\%$ F.S.			₀F.S.	
	Enclosure			9 40		
	Ambient temp.range	Operation: 0~50°C,st				
Environment	Ambient humidity range	Operation/St				
	Withstand voltage	1000VAC ir				
	Insulation resistance	50 Mohm min.(a				
	Vibration	Total amplitude 1.5mm, 10Hz~55Hz~10Hz scan for 1 minute,, two hours each directive				
Shock		980m/s ² (100G) 3 times each in direction of X,Y and Z				
Temperature	characteristic	≤ ±2% F.S. of detected pressure(25°C) at temp. Range of 0~50°C				
Port size		F1:1/8"PT,M5;F2:1/8"NPT,M5; F3:G1/8",M5				
Lead wire		Oil-resistance cable(0.15mm²)				
Weight		Approx,*67g(with 2-meter lead wire), Approx.*35g(with male connector)				



APS-8

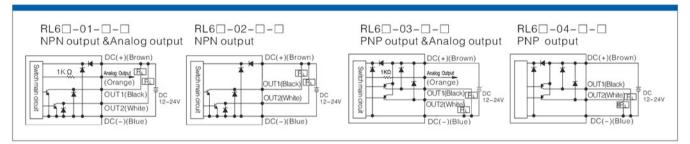
How to Order

AIRBEST



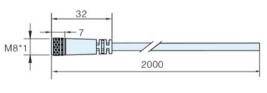
M84R-W0085-2M: M8.4 Pin female connector

Output circuit wiring graph



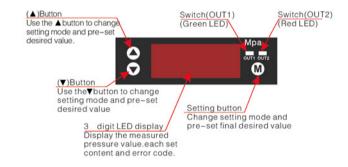
Type of spare parts/Dimension graph

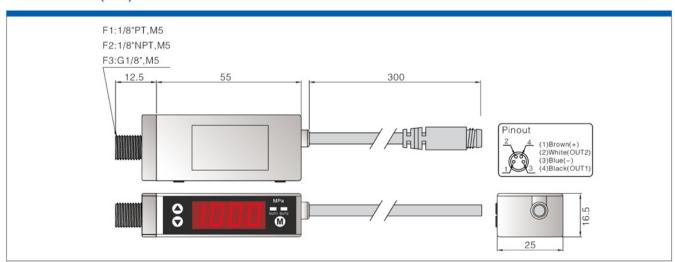
1.M8 Female Connector



Unit:mm

Panel instructions





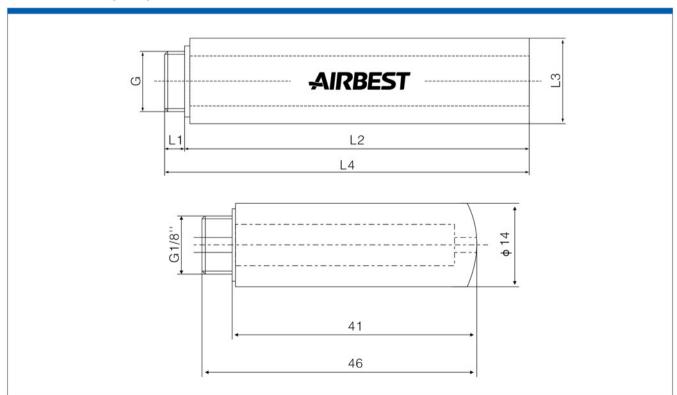




 $^{\pha}$ These silencers which are fitted to many of the vacuum pumps as standard can be ordered separately as replacements. They significantly reduce noise levels on all exhaust applications. Six sizes are available ranging from 1/8" to 1".

How to Order

Model	L1	L2	L3	L4	G	Weight(g)
ABS01	5	41	Φ14	46	G1/8"	3
ABS02	8	65	Ф20	73	G1/4"	20
ABS03	8	64	Ф24	72	G3/8"	25
ABS04	7	121	Ф30	128	G1/2"	35
ABS06	7	119	Φ40	126	G3/4"	55
ABS10	7	119	Φ49	126	G1"	175





Specifications

AIRBEST

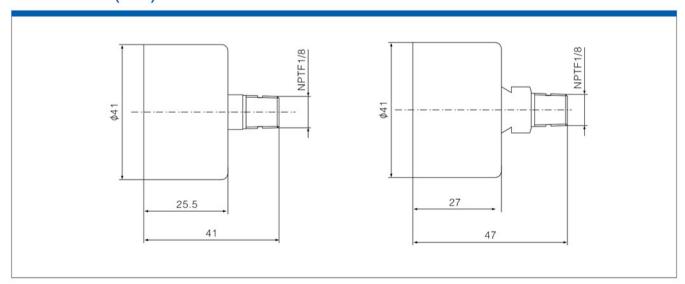
Product name: Vacuun Gauge Model: AB168-QDPE-001

Dial size: 1.5"

Mounting type: Back entry

Pressure Range: -30-0inHg/-100kPa-0 kPa

Case material: ABSblack case View window material: Acrylic Connector material: Brass Connector seal material: Teflon Connetor thread: NPTF1/8



AIRBEST WORLD WIDE







Germany



France



UK



USA



Canada



Austria



Holland



Switzerland



Belgium



Luxemburg



Brazil



Columbia



Turkey



Poland



Czech Republic



Korea



Malaysia



Indonesia

AIRBEST

AIRBEST PNEUMATICS CO.,LTD.

Add:No.76-86,Jinqiao West Road,Liushi Town,Wenzhou,China

Tel: 86-577- 61787553 Fax: 86-577-62725552 E-mail:onlin@air-best.com

Web:www.air-best.com