



### How to Order

AZH **07** B **S** - **06** - **06**  
 AZH **07** D **S** - **01** - **01** - **01**

①            ②            ③            ④            ⑤

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

S	-88kPa
L	-48kPa

③ (Note)SUP. Port size

Symbol	Size	Style
06	Φ06	One-touch
08	Φ08	One-touch
10	Φ10	One-touch
12	Φ12	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	Φ06	One-touch
10	Φ10	One-touch
12	Φ12	One-touch
16	Φ16	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

Symbol	Size	Style
06	Φ06	One-touch
08	Φ08	One-touch
10	Φ10	One-touch
12	Φ12	One-touch
16	Φ16	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

### Specifications

Model	Nozzle diameter Φ mm	Body style	Max.vacuum pressure(kpa)		Max.vacuum flow l/min		Air consumption l/min	Connection (One-touch/Screw-in)					
			S style	L style	S style	L style		S style/L style	SUP	VAC	EXH		
AZH05B□	0.5	Box style (Built-in silencer)	-88	-48	5	9	13.5	Φ6/Rc 1/8	Φ6/Rc 1/8	--			
AZH07B□	0.7				12	22	23.5						
AZH10B□	1.0				24	34	46						
AZH13B□	1.3				40	75	78				Φ8/Rc 1/8	Φ10/Rc 1/4	
AZH05D□	0.5	Body ported style (without silencer)	-88	-48	7.5	9	13.5	Φ6/Rc 1/8	Φ6/Rc 1/8	Φ6/Rc 1/8			
AZH07D□	0.7				12	22	23.5						
AZH10D□	1.0				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	Φ10/Rc 1/4	Φ10/Rc 1/4
AZH15D□	1.5	Body ported style (without silencer)	-88	-53	60	80	97	Φ10/Rc 1/4	Φ12/Rc 3/8	Φ12/Rc 3/8			
AZH18D□	1.8				70	110	150				Φ12/Rc 3/8		
AZH20D□	2.0				85	140	185				Φ12/Rc 3/8	Φ16/Rc 1/2	Φ16/Rc 1/2

\*Supply pressure:4.5bar

Table ① Combination of connection

Body		SUP	VAC	EXH
Box style (Built-in silencer)	①	One-touch	One-touch	--
	②	One-touch	Screw-in	--
	③	Screw-in	Screw-in	--
Body ported style (without silencer)	①	One-touch	One-touch	One-touch
	②	One-touch	Screw-in	One-touch
	③	Screw-in	Screw-in	Screw-in

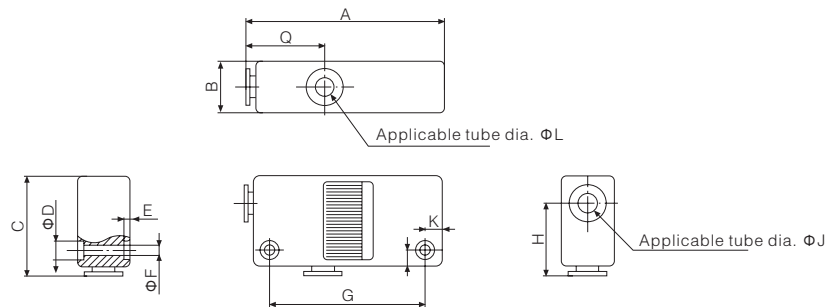
Table ② port size

Model	SUP	VAC	EXH
AZH05B	Φ6/Rc 1/8	Φ6/Rc 1/8	--
AZH07B			
AZH10B			
AZH13B	Φ8/Rc 1/8	Φ10/Rc 1/4	Φ6/Rc 1/8
AZH05D	Φ6/Rc 1/8	Φ6/Rc 1/8	
AZH07D	Φ6/Rc 1/8	Φ6/Rc 1/8	Φ6/Rc 1/8
AZH10D			Φ8/Rc 1/8
AZH13D	Φ8/Rc 1/8	Φ10/Rc 1/4	Φ10/Rc 1/4
AZH15D	Φ10/Rc 1/4	Φ12/Rc 3/8	Φ12/Rc 3/8
AZH18D	Φ12/Rc 3/8		Φ12/Rc 3/8
AZH20D	Φ12/Rc 3/8	Φ16/Rc 1/2	Φ16/Rc 1/2

### Dimensions (mm)

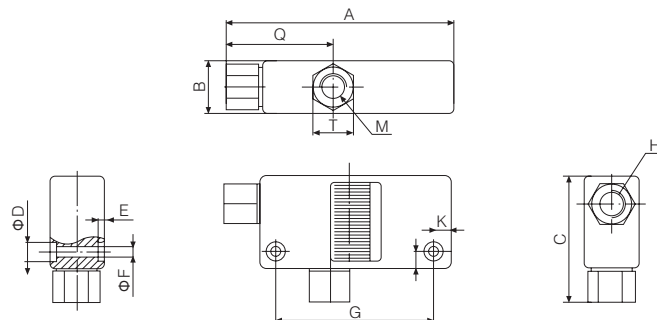
#### Box style (Built-in silencer)

- One-touch connection



Model	A	B	C	D	E	F	G	H	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

- Screw-in connection



Model	A	B	C	D	E	F	G	H	Q	M	K	T
AZH05B-01-01	67.5	16	38.5	5.8	2	3.2	47	Rc1/8	31.5	Rc1/8	5	12
AZH07B-01-01	67.5	16	38.5	5.8	2	3.2	47	Rc1/8	31.5	Rc1/8	5	12
AZH10B-01-01	70.5	18	39.5	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

ABM

ABX

ABM/ABX  
Combined type

AM

AL

AH

AM  
Combined type

AL  
Combined type

AH  
Combined type

AZL112

AZL212

ACP

ACPF

ACV

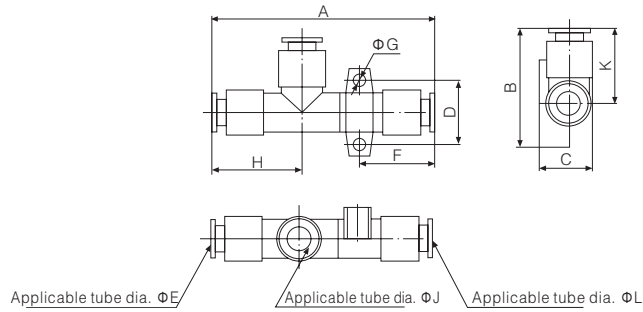
AZH

AZU

ASBP

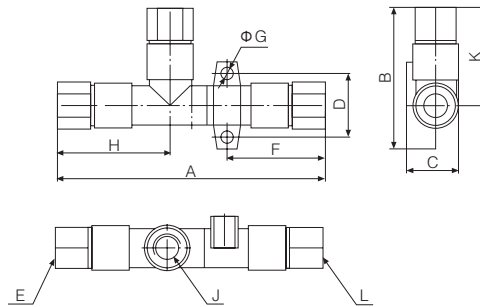
### Body ported style (without silencer)

- One-touch connection



Model	A	B	C	D	E	F	G	H	L	K	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 <sub>L</sub> <sup>S</sup> -06-06-08	$\frac{66}{70}$	37	17.2	20	6	24.5	4.2	26	8	23	6
AZH13D <sub>L</sub> <sup>S</sup> -08-10-10	$\frac{74}{79.5}$	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

- Screw-in connection



Model	A	B	C	D	E	F	G	H	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 <sub>L</sub> <sup>S</sup> -01-01-01	$\frac{82}{86}$	44.5	17.2	20	Rc1/8	33	4.2	33.5	Rc1/8	23	Rc1/8
AZH13D <sub>L</sub> <sup>S</sup> -01-02-02	$\frac{94.5}{99.5}$	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

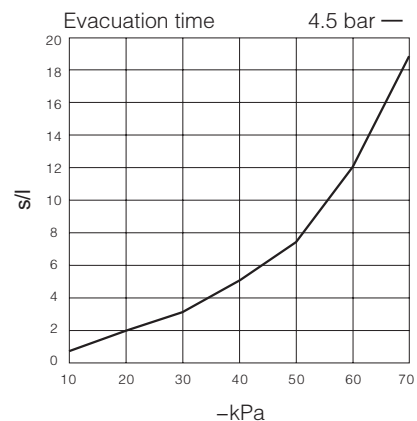
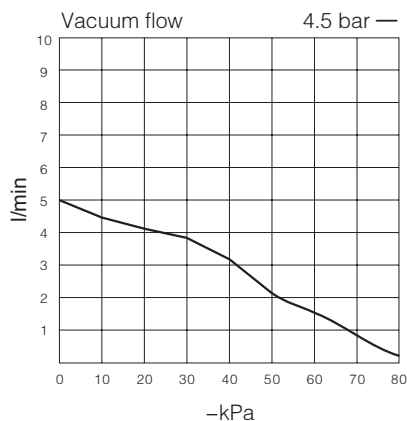
### Vacuum flow(l/min)at different vacuum levels(-kPa)

Model \ -kPa	Air supply pressure	Air consumption	0	10	20	30	40	50	60	70	80	Max.vacuum level
AZH05S	4.5 bar	13.5 l/min	5	4.5	4.1	3.8	3.3	2.3	1.6	0.9	0.3	-88kPa
AZH07S		23.5 l/min	12	11	10	9	8	7	5.5	2.1	0.8	
AZH10S		46 l/min	24	23	20.5	17.5	13	11.5	9.5	7	2.5	
AZH13S		78 l/min	40	35	32.5	28	23	19.5	13	9	4.5	
AZH15S		97 l/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	

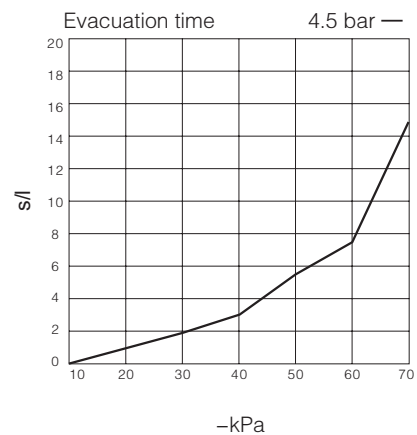
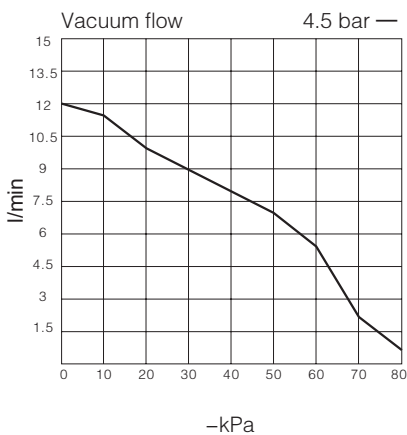
### Evacuation time(s/l)to reach different vacuum levels(-kPa)

Model \ -kPa	Air supply pressure	Air consumption	10	20	30	40	50	60	70	Max.vacuum level
AZH05S	4.5 bar	13.5 l/min	0.89	1.7	3.2	5	7.8	12	19	-88kPa
AZH07S		23.5 l/min	0.37	1	1.9	3	5.4	6.7	15	
AZH10S		46 l/min	0.25	0.6	1.25	2	2.9	4.2	6.5	
AZH13S		78 l/min	0.1	0.27	0.53	1	1.75	4.6	7.3	
AZH15S		97 l/min	0.04	0.21	0.35	0.63	1.23	4.1	7.3	
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	

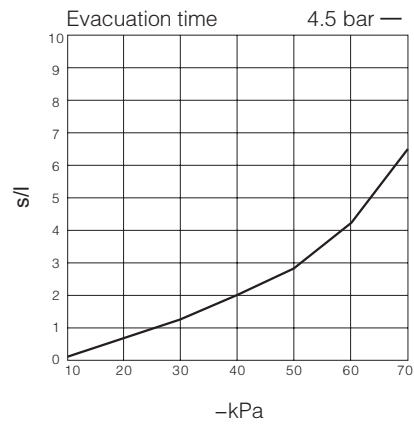
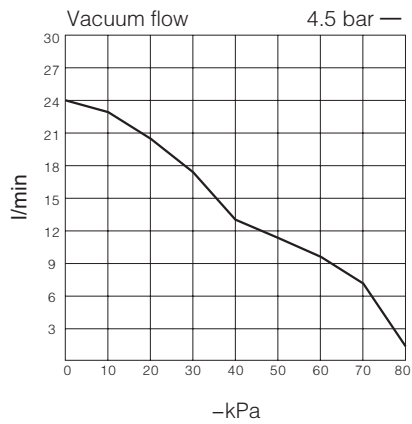
#### • AZH05S



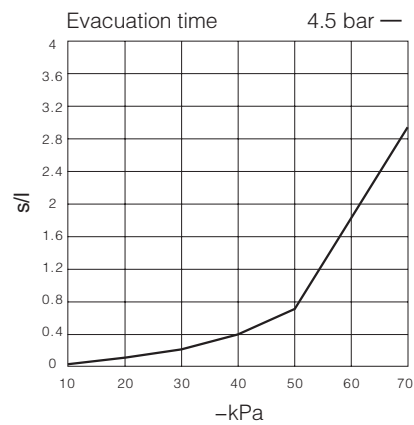
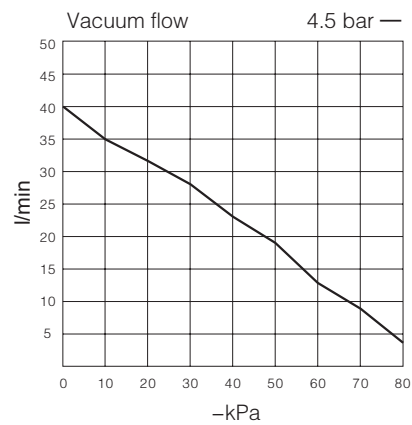
#### • AZH07S



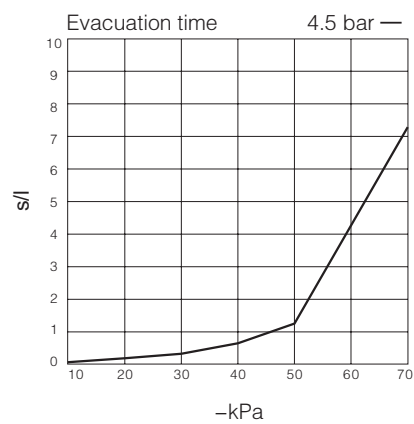
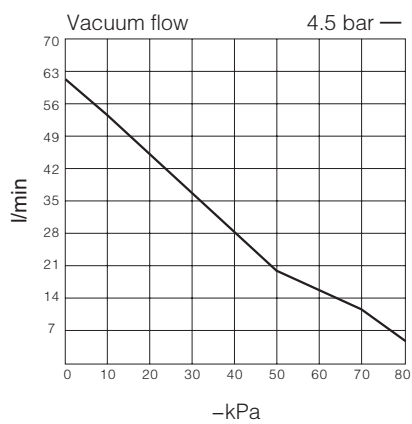
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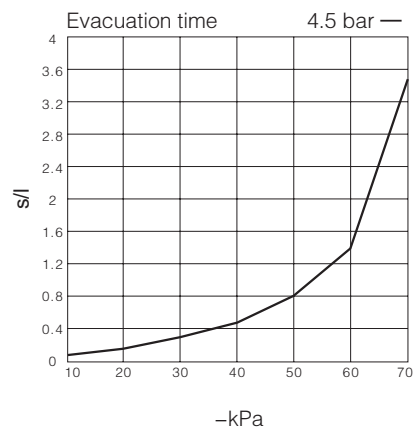
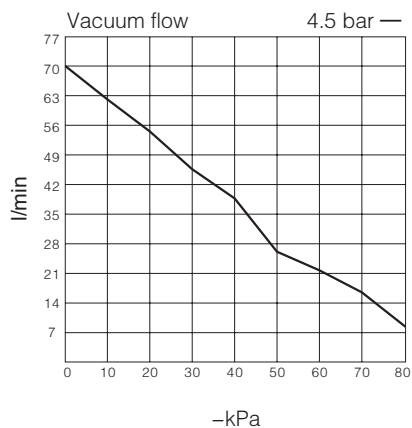
• AZH13S



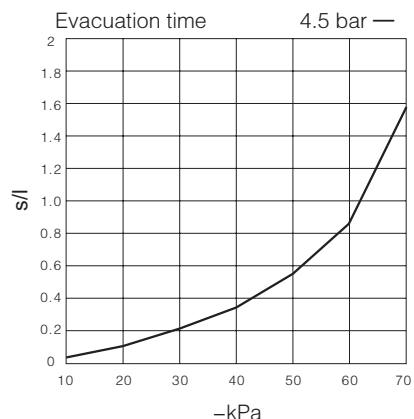
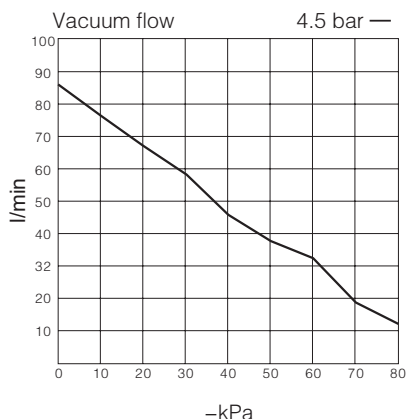
• AZH15S



• AZH18S



• AZH20S



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

Model	-kPa	Air supply pressure	Air consumption	0	10	20	30	40	45	Max.vacuum level
AZH05L		4.5 bar	13.5 l/min	9	8	7	6	3	1.9	-48kPa
AZH07L			23.5 l/min	22	21	20.5	15.5	10.5	6.8	
AZH10L			46 l/min	34	32	26	19	12	8	
AZH13L			78 l/min	75	72	65	43	19	9	

Model	-kPa	Air supply pressure	Air consumption	0	10	20	30	40	50	Max.vacuum level
AZH15L		4.5 bar	97 l/min	80	72	60	45	36.5	16	-53kPa
AZH18L			150 l/min	110	105	95	80	55	30	
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		4.5 bar	13.5 l/min	0.49	1.5	2.9	5.1	7.2	-48kPa
AZH07L			23.5 l/min	0.28	0.75	1.5	2.5	3.5	
AZH10L			46 l/min	0.14	0.4	0.81	1.4	1.8	
AZH13L			78 l/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		4.5 bar	97 l/min	0.03	0.15	0.23	0.4	0.92	-53kPa
AZH18L			150 l/min	0.02	0.10	0.18	0.32	0.67	
AZH20L			185 l/min	0.01	0.08	0.14	0.2	0.3	

ABM

ABX

ABM/ABX  
Combined type

AM

AL

AH

AM  
Combined type

AL  
Combined type

AH  
Combined type

AZL 112

AZL212

ACP

ACPF

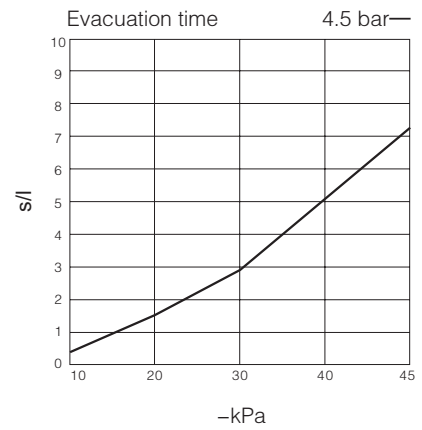
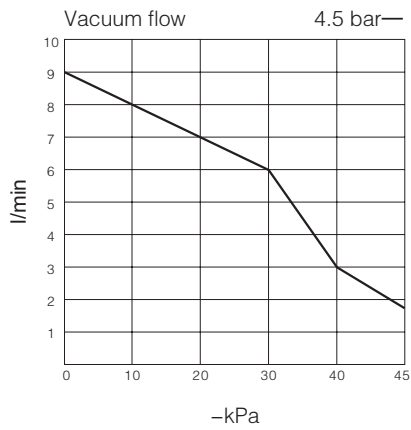
ACV

AZH

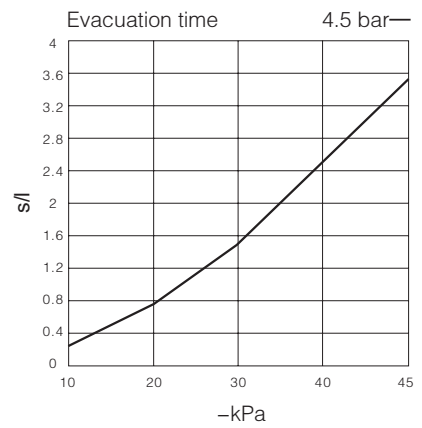
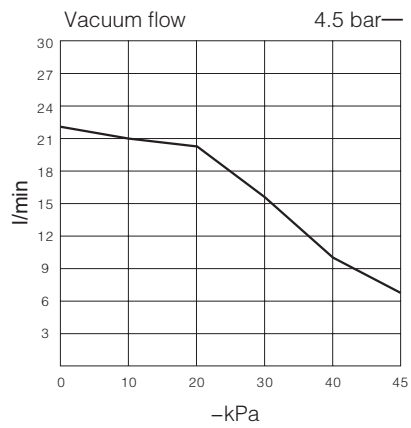
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ASBP

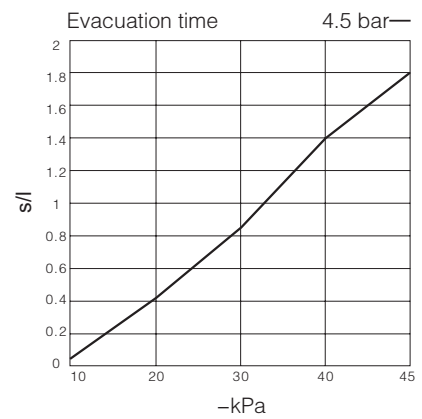
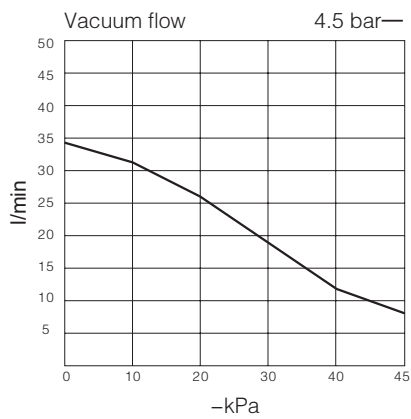
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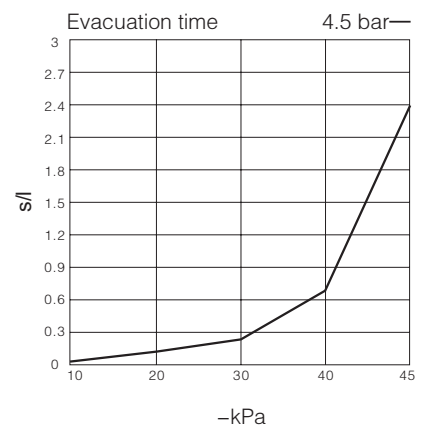
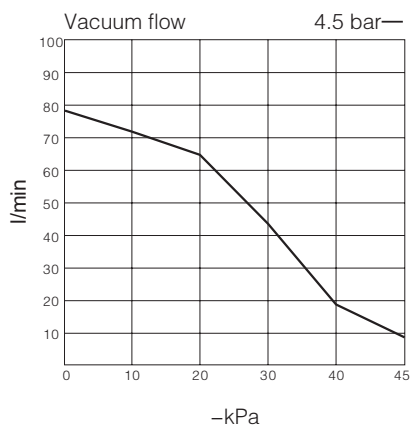
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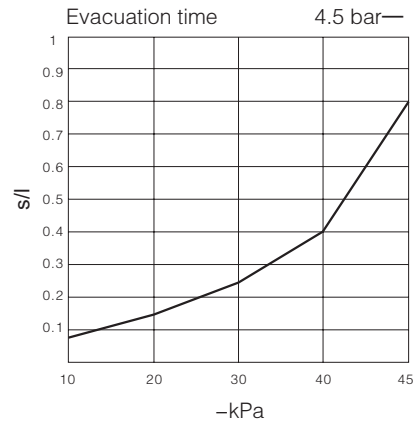
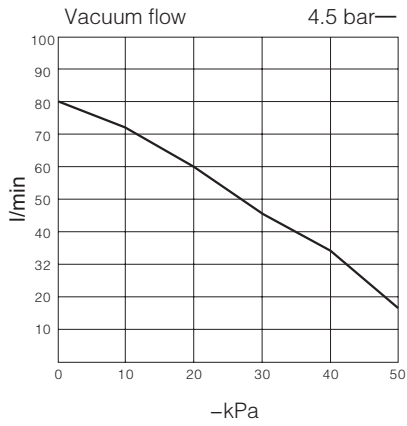
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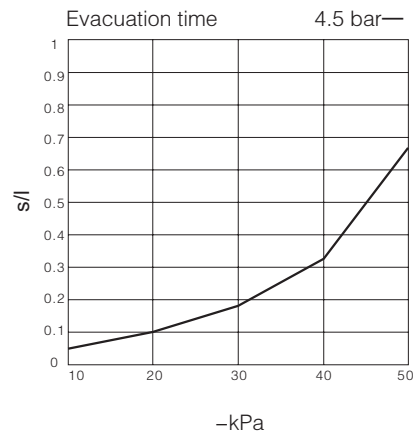
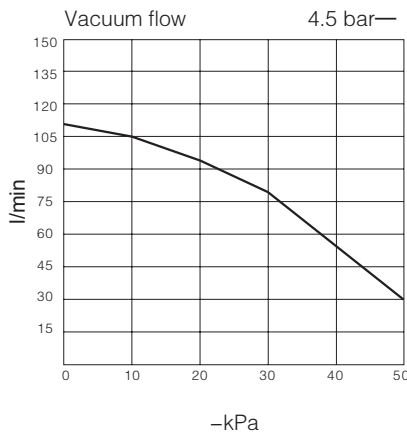
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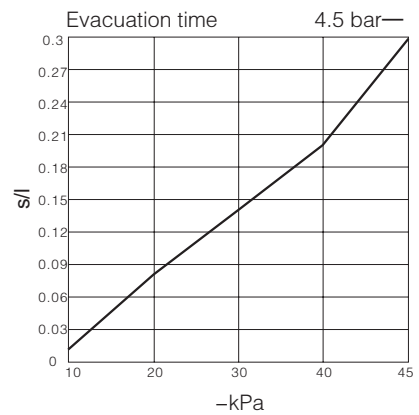
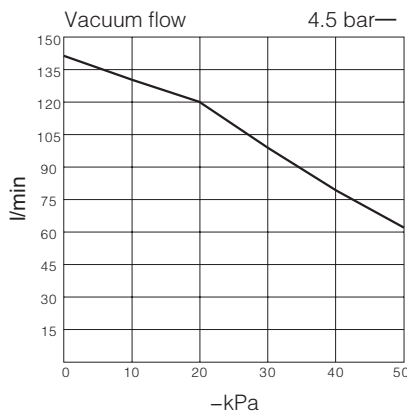
• AZH15L



• AZH18L



• AZH20L



ABM

ABX

ABM/ABX  
Combined type

AM

AL

AH

AM  
Combined type

AL  
Combined type

AH  
Combined type

AZL 112

AZL212

ACP

ACPF

ACV

**AZH**

AZU

ASBP