

**Wide Range, Wide Variety
We Respond to All Needs**



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Analyzers

Air analyzers (degassers, air analyzers, flue-gas analyzers), medical analyzers (biochemical analyzers [for medical waste liquid/washings recovery]), environmental analyzers (spectral photometers [for material adsorption], leak testers, dust counters), immunoassay analyzers

Medical Equipment

Aspirators, nebulizers, low-frequency therapy equipment, blood-pressure gauges, endoscopes, X-ray film adsorption/transfer equipment, gas sterilizers, tappers, artificial respirators, bedsores preventive mats, interferential current therapy equipment, oxygen generators, normal saline solution sprays, massagers, pressurization/vacuum sources for various devices



Physics and Chemistry Instruments

Vacuum furnaces, aspirators, vacuum filters, liquid chromatography, particle counters, leak testers, sprays, culture apparatus, aseptic baths, micro air dusters

Industrial Machine

Forming machines (for vacuum defoaming), solder adsorption devices, washers, vacuum tweezers, automatic packaging machines, automobile oil chargers, ozonizers, vacuum chucks, glass engravers, solvent recovery apparatus, lifters, air tools, air brushes, air dusters, air driven valves, sprays, air sensors



APN Diaphragm type air pumps

APN-051/052

P. 9-10



APN-085

P. 11-12



APN-110

P. 13-14



APN-215

P. 15-16



APN-240

P. 17-18



APN-450

P. 19-20



APN-W Gas and liquid transfer pumps

APN-085-W

P. 21-22



Diaphragm Air Pumps APN

Suitable for Built-in
Equipment.
Diaphragm Air Pump.



Clean Air Transfer

A diaphragm pump directly connected to the motor provides clean air transfer without the use of oil. Ideal for medical, sampling, and other applications in which clean air needs.



High Efficiency Design

A use of molded parts enhances the pump performance and efficiency. The high-power motor also improves the starting characteristic.)



Superior Durability

Fiber reinforced diaphragms, enlarged bearings and enhanced connecting rods have further improved reliability and durability in order for the pump to run over an extended period of time in a continuous operation.



Wide Variations

Either single- or Dual head type is selectable. Also, EPDM, FKM, NBR or PTFE diaphragm and hose/thread connections are available.^{Note} A number of combinations (more than 60) varies the APN according to an intended use.

Note: diaphragm material and a suction bore shape differs with models.



Ease of Maintenance

The pump head consists of only a few parts and can easily be assembled and disassembled.

• Excluded some models.

Gas and Liquid Transfer Pumps APN-W

Maintaining the Features
of the APN Series.
Lightweight and
Compact Design.
Gas-Liquid Transfer
Capability.



Oil-Free Design Self-Priming Capability

The motor-driven diaphragm pumps are oil-free and are most suitable for usage requiring clean gas and liquid transfer. A wide variety of models are available for various usage. Self-priming capability makes end user's piping easily.



Diaphragm Durability

The diaphragm is made thick regarding its moving parts, in order to withstand the pump pressure in gas-liquid transferring.



Unique Valve Design Flush Groove

To improve sealing performance even when the pump is stationary, a unique valve is designed to be pressed against the valve seat. A flush groove design is adapted in the valve seat to prevent accumulating debris when the debris is accidentally mixing in the pumped liquid. The flush groove helps to prevent accumulating the debris between valve and the valve seat reducing a self-priming failure.

Specifications 1

APN Diaphragm type air pumps

Parallel duplex	Model	Materials	Gas Max. flow 50Hz Gas Max. flow 60Hz										Max. Vacuum			Max. Discharge pressure				
			1.0	10.0	100.0	L/min	kPa	26.66	79.98	101.32	0.2	0.4	0.6	MPa						
	051	L/H					0.6 0.7	61.32											0.05	
S	051	L					1.5 1.8	13.33												
P	051	L/H					1.2 1.4	61.32											0.05	
	052	L/H					1.8 2.1	61.32											0.05	
S	052	L					3.0 3.6	13.33												
P	052	L/H					3.6 4.2	61.32											0.05	
	085						5.0 6.0	61.32											0.08	
	085	L/H					5.0 6.0	34.66											0.08	
S	085	L					5.0 6.0	7.99												
P	085	L/H					10.0 12.0	34.66											0.08	
	110	K					12.0 14.0	23.99											0.10	
	110	L					12.0 14.0	23.99											0.10	
S	110	L					12.0 14.0	7.99												
P	110	L					24.0 28.0	23.99											0.10	
	215	N					15.0 18.0	39.99											0.10	
	215	C					15.0 18.0												0.20	
	215	M					15.0 18.0	26.66												
S	215	M					15.0 18.0	7.99												
P	215	N					28.0 32.0	39.99											0.10	
P	215	C					30.0 36.0												0.20	
P	215	M					30.0 36.0	26.66												

Parallel duplex	Model	Materials	Output (W)	Power consumption (W)	Rated current (A)	Rated voltage (V)	Connection size IN/OUT (mm)	Mass (kg)	Handling gas temp. (°C)	Ambient temp. (°C)	Limit cold start temperature (°C)		
	051	L/H	1	14/15	0.14/0.15	AC100	Hose Ø8, Ø5 ^{Note} , Thread Rc1/8	0.5	5 to 40	5 to 40	5		
S	051	L	3	18/20	0.18/0.20		Hose Ø8	0.85					
P	051	L/H					Hose Ø8, Ø5 ^{Note} , Thread Rc1/8					0.5	
	052	L/H	2.5	15/15	0.15/0.15			0.85					
S	052	L	5	30/36	0.30/0.36		Hose Ø8					Hose Ø8, Ø5 ^{Note} , Thread Rc1/8	
P	052	L/H											
	085		10	20/20	0.25/0.25		Hose Ø8, Thread Rc1/4, G1/4	1.9	0 to 40	0 to 40	10		
	085	L/H									FKM: 5, EPDM/NBR: 0		
S	085	L	15	35/38	0.40/0.40			2.6			5 to 40	5	
P	085	L/H											FKM: 5, EPDM/NBR: 0
	110	K	10	42/42	0.50/0.44			2.5	0 to 40	5 to 40			5
	110	L											
S	110	L	25	60/66	0.76/0.70			3.8					
P	110	L											
	215	N	30	64/64	0.75/0.68		Hose Ø9, Thread G1/8	3.5		0 to 40	0 to 40	0	
	215	C											
	215	M											
S	215	M	45	95/95	1.00/1.00			5.2					
P	215	N											
P	215	C											
P	215	M											

Note: H type only

Specifications 2

APN Diaphragm type air pumps

Parallel duplex	Model	Materials	Gas Max. flow 50Hz Gas Max. flow 60Hz			Max. Vacuum			Max. Discharge pressure				
			1.0	10.0	100.0 L/min	kPa	26.66	101.32 79.98	0.2	0.4	0.6	MPa	
	240	NAN			30.0 34.0	41.32						0.20	
	240	MAN			32.0 36.0	21.33							
S	240	MANX			32.0 36.0	6.66							
P	240	NAN			60.0 68.0	41.32						0.20	
P	240	MAN			64.0 72.0	21.33							
	450	NA/S			50.0 60.0	13.33						0.10	
S	450	NA/S			50.0 60.0	3.33							
P	450	NA/S			100.0 110.0	13.33						0.10	

APN-W Gas and liquid transfer pumps

Parallel duplex	Model	Materials	Gas-liquid Max. capacity Gas Max. flow 50Hz Gas Max. flow 60Hz			Max. Vacuum			Max. Discharge pressure				
			1.0	10.0	100.0 L/min	kPa	26.66	101.32 79.98	0.2	0.4	0.6	MPa	
	085	EX			0.5 3.0 4.0	34.66						0.05	
	085	VX			0.5 3.0 4.0	37.33						0.05	
P	085	EX			1.0 5.0 6.0	34.66						0.05	
P	085	VX			1.0 5.0 6.0	37.33						0.05	

Parallel duplex	Model	Materials	Output (W)	Power consumption (W)	Rated current (A)	Rated voltage (V)	Connection size IN/OUT (mm)	Mass (kg)	Handling gas temp. (°C)	Ambient temp. (°C)	Limit cold start temperature (°C)
	240	NAN	60	94/107	1.2/1.2	AC100	Hose Ø14, Thread G1/4	7.0	0 to 40	0 to 40	0
	240	MAN									
S	240	MANX	90	170/200	1.8/2.0		Thread RC1/4	10.0	5 to 40		5
P	240	NAN					Hose Ø14, Thread G1/4		0 to 40		0
P	240	MAN							5 to 40		5
	450	NA/S	200	295/345	3.2/3.5		Hose Ø12, Thread Rc1/4	12.0/14.2	0 to 40	0 to 40	0
S	450	NA/S						13.0/17.4			
P	450	NA/S						12.8/17.1			

Parallel duplex	Model	Materials	Output (W)	Power consumption (W)	Rated current (A)	Rated voltage (V)	Connection size IN/OUT (mm)	Mass (kg)	Handling gas temp. (°C)	Handling liquid temp. (°C)	Limit cold start temperature (°C)
	085	EX	20	47/44	0.60/0.50	AC100	Thread Rc1/8	2.5	0 to 40	5 to 40	FKM: 10 EPDM: 5
	085	VX									
P	085	EX		50/48							
P	085	VX									

APN-051/052

Diaphragm type air pumps

Max. flow 0.6/0.7 to 3.6/4.2 L/min

Max. vacuum 13.33 to 61.32 kPa

Max. discharge pressure 0.05 MPa

Adjustment valve of fluid, please to be installed on the suction side of the pump.



Specifications

Model	Max. flow (L/min)	Max. vacuum (kPa)	Max. discharge pressure (MPa)	Output (W)	Power consumption (W)	Rated current (A)	Rated voltage (V)
APN-051L/H	0.6/0.7	61.32	0.05	1	14/15	0.14/0.15	AC100
APN-P051L/H	1.2/1.4			3	18/20	0.18/0.20	
APN-S051L	1.5/1.8	13.33	—				
APN-052L/H	1.8/2.1	61.32	0.05	2.5	15/15	0.15/0.15	
APN-S052L	3.0/3.6	13.33	—	5	30/36	0.30/0.36	
APN-P052L/H	3.6/4.2	61.32	0.05				

Connection size IN/OUT 051/P051/052/P052: Hose Ø5mm^{Note}, Ø8mm, Thread Rc1/8, S051/S052: Hose Ø8mm

Mass 051/052: 0.5kg, P051/P052/S051/S052: 0.85kg

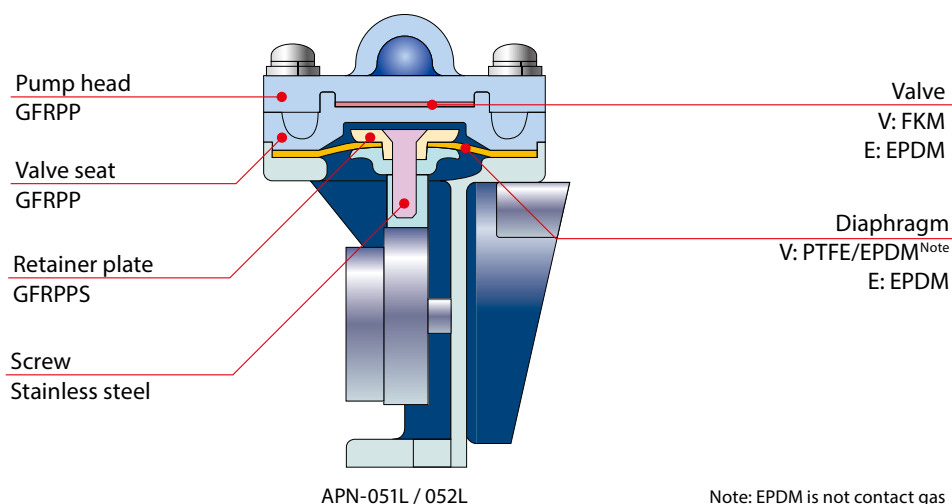
Handling gas temp 5 to 40°C

Ambient temp 5 to 40°C

Minimum starting temperature 5°C

Note: H type only.

Construction and Materials



Pump Identification

APN - S 051 L E X - 1 - 01

1 2 3 4 5 6 7

1 Pump head

No symbol: Single head

P: Dual-head with parallel tubing

S: Dual-head with series tubing

3 Pump head

L: Horizontally oriented

H: Vertically oriented

4 Diaphragm/Valve materials

V: PTFE/EPDM • FKM

E: EPDM • EPDM

5 Pump connection

No symbol: Tube (ø8)

5: Tube (ø5)

X: Thread (Rc1/8)

7 Special version

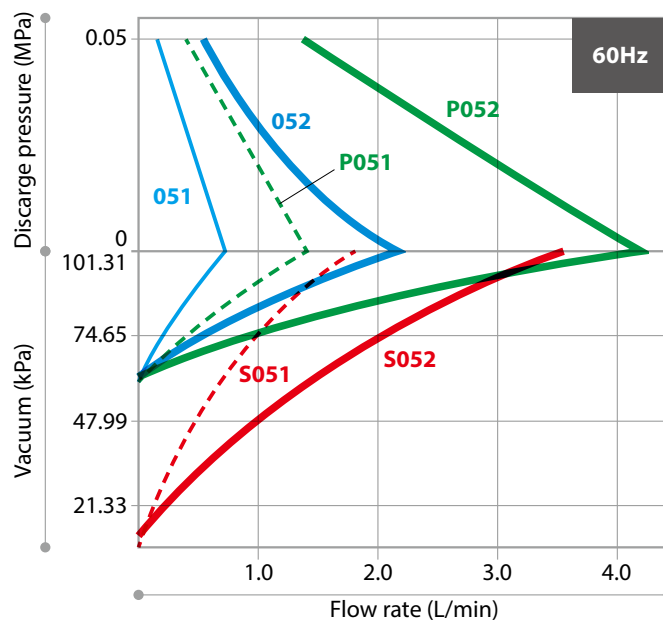
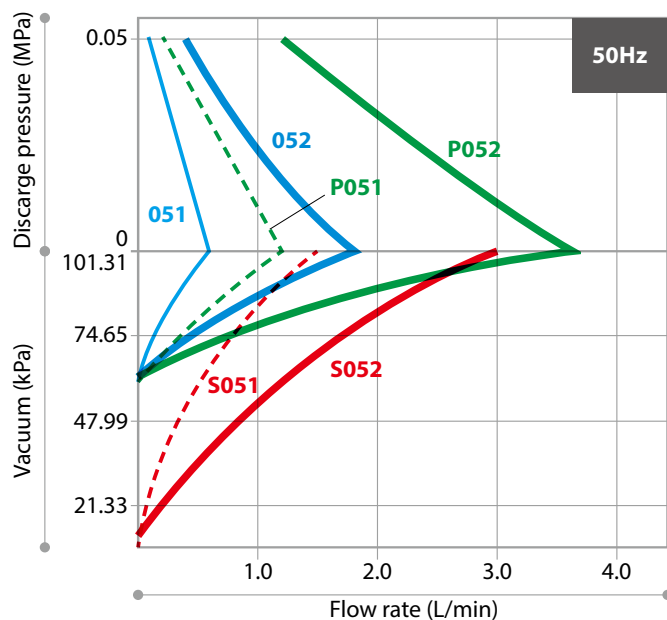
2 Pump size

051, 052

6 Power voltage

1: AC100V 50/60Hz

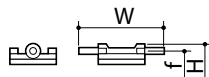
Performance Curves



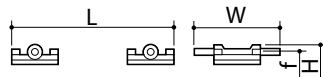
Dimensions in mm

This is the dimension of the hose connection type.

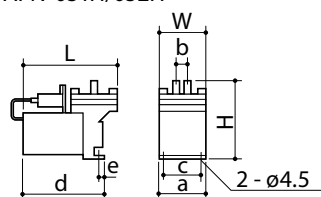
APN-051L/052L



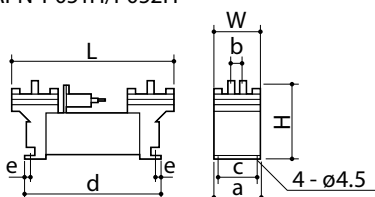
APN-P051L/P052L



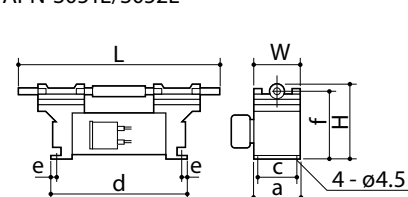
APN-051H/052H



APN-P051H/P052H



APN-S051L/S052L



Model	W	H	L	a	b	c	d	e	f
APN-051L/052L	86	(75)	(94)	46	-	32	(80)	6.5	67
APN-051H/052H	46	(78)			13				-

Model	W	H	L	a	b	c	d	e	f
APN-P051H/P052H	46	(78)	(162)	46	13	32	(135)	6.5	-
APN-P051L/P052L	86	(75)	(202)		-				67
APN-S051L/S052L	46				-				

APN-085

Diaphragm type air pumps

Max. flow 5/6 to 10/12 L/min

Max. vacuum 7.99 to 61.32 kPa

Max. discharge pressure 0.08 MPa

Adjustment valve of fluid, please to be installed on the suction side of the pump.



Specifications

Model	Max. flow (L/min)	Max. vacuum (kPa)	Max. discharge pressure (MPa)	Output (W)	Power consumption (W)	Rated current (A)	Rated voltage (V)
APN-085	5/6	61.32	0.08	10	20/20	0.25/0.25	AC100
APN-085L/H		34.66					
APN-S085L		7.99					
APN-P085L/H	10/12	34.66	0.08	15	35/38	0.40/0.40	

Connection size IN/OUT Hose Ø8mm, Thread Rc1/4, G1/4

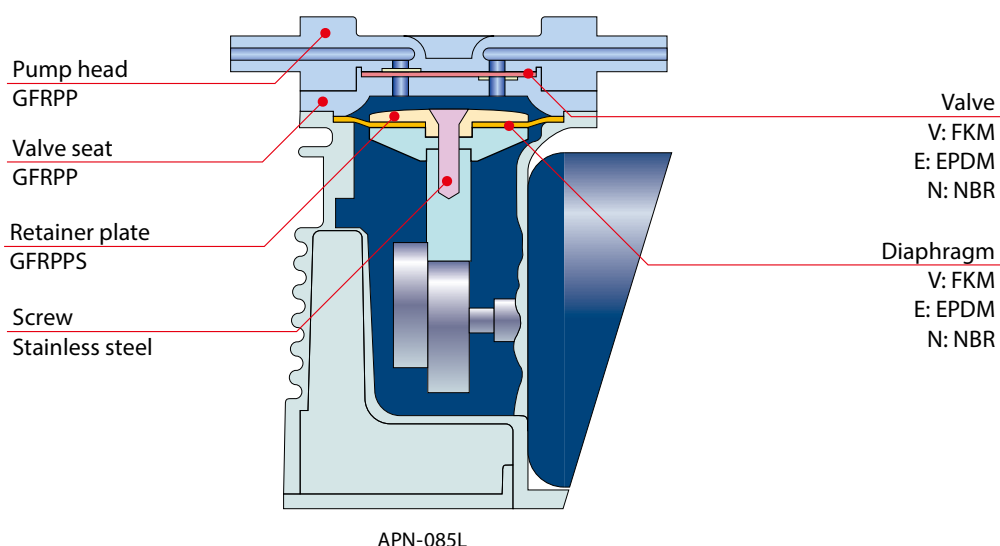
Mass 085: 1.9kg, S085/P085: 2.6kg

Handling gas temp 0 to 40°C

Ambient temp 0 to 40°C

Minimum starting temperature ... 085: 10°C, 085L/H: 5°C (FKM) 0°C (EPDM/NBR), S085L: 5°C, P085L/H: 5°C (FKM) 0°C (EPDM/NBR)

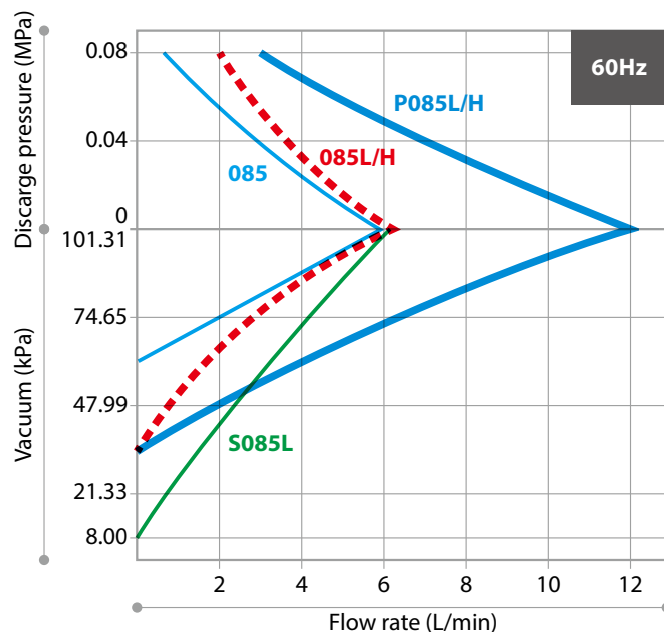
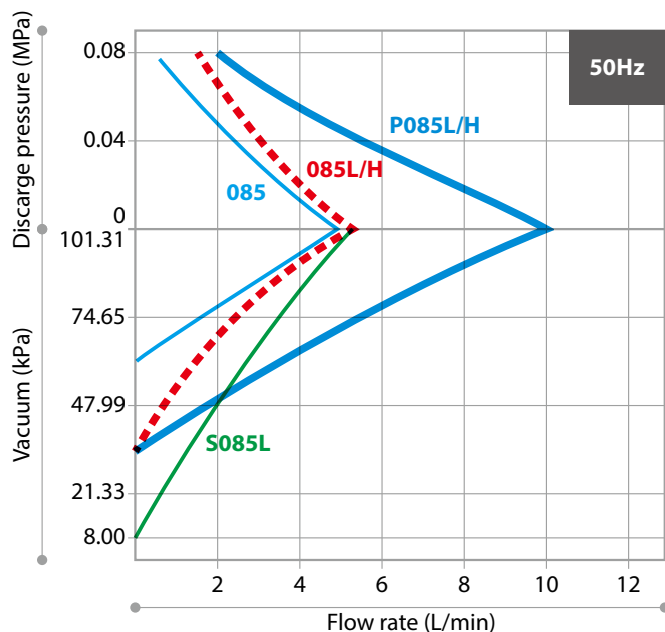
Construction and Materials



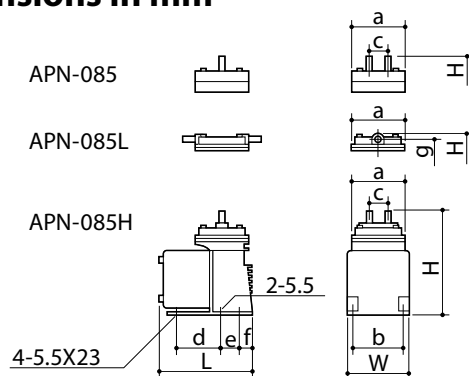
Pump Identification

APN - S 085 L E X - 1 - 01						
1	2	3	4	5	6	7
1 Pump head No symbol: Single head P: Dual-head with parallel tubing S: Dual-head with series tubing	2 Pump size 085	3 Intended use No symbol: Corrosion resistant L: Horizontally-oriented H: Vertically-oriented	4 Diaphragm/Valve materials V: FKM • FKM E: EPDM • EPDM N: NBR • NBR	5 Pump connection No symbol: Tube (ø8) X : Thread (Rc1/4) X1: Female thread (G1/4)	7 Special version	

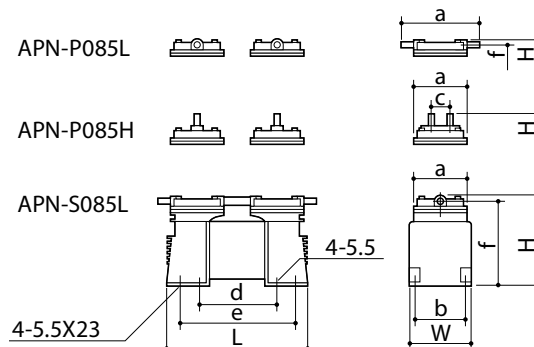
Performance Curves



Dimensions in mm



This is the dimension of the hose connection type.



Model	W	H	L	a	b	c	d	e	f	g
APN-085		(136)		71		24				-
APN-085L	82.4	(121)	(124)	72	66	-	57	21.5	19	111
APN-085H		(140)				24				-

Model	W	H	L	a	b	c	d	e	f
APN-P085L		(121)		106		-			111
APN-P085H	82.4	(140)	(188)	72	66	24	108	151	-
APN-S085L		(121)				-			111

APN-110

Diaphragm type air pumps

Max. flow 12/14 to 24/28 L/min

Max. vacuum 7.99 to 23.99 kPa

Max. discharge pressure 0.1 MPa

Adjustment valve of fluid, please to be installed on the suction side of the pump.



Specifications

Model	Max. flow (L/min)	Max. vacuum (kPa)	Max. discharge pressure (MPa)	Output (W)	Power consump- tion (W)	Rated current (A)	Rated voltage (V)
APN-110K	12/14	23.99	0.1	10	42/42	0.50/0.44	AC100
APN-110L		7.99	—	25	60/66	0.76/0.70	
APN-S110L							
APN-P110L	24/28	23.99	0.1				

Connection size IN/OUT Hose Ø8mm, Thread Rc1/4, G1/4

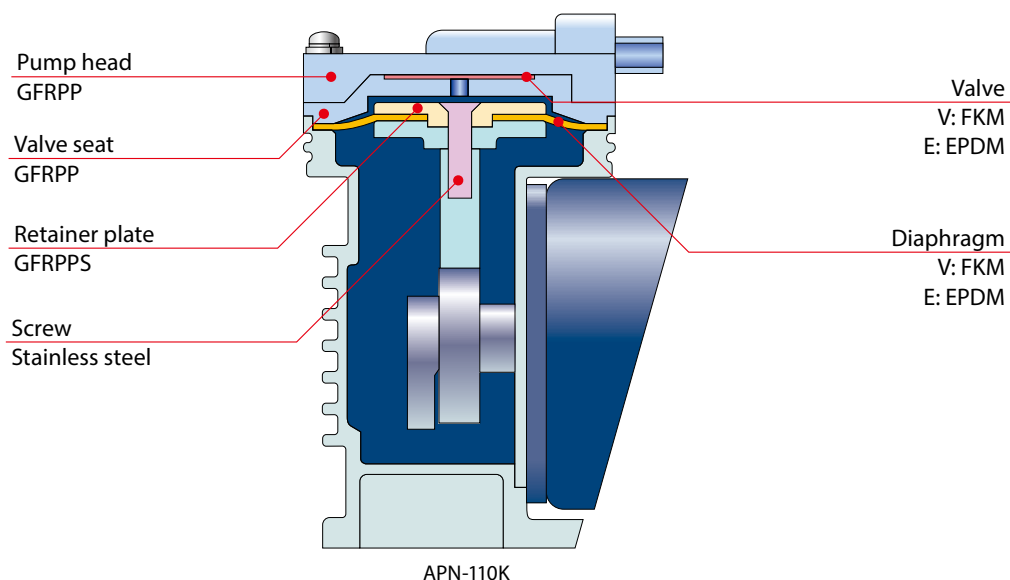
Mass 110: 2.5kg, S110/P110: 3.8kg

Handling gas temp 0 to 40°C

Ambient temp 5 to 40°C

Minimum starting temperature 5°C

Construction and Materials

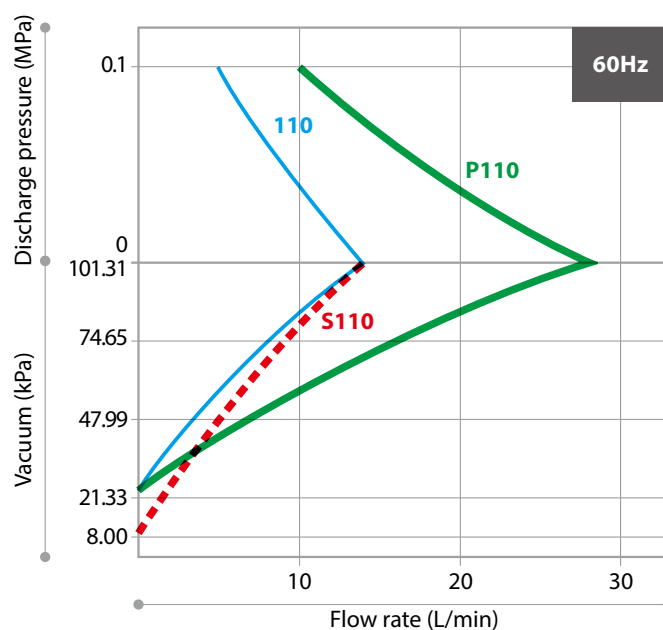
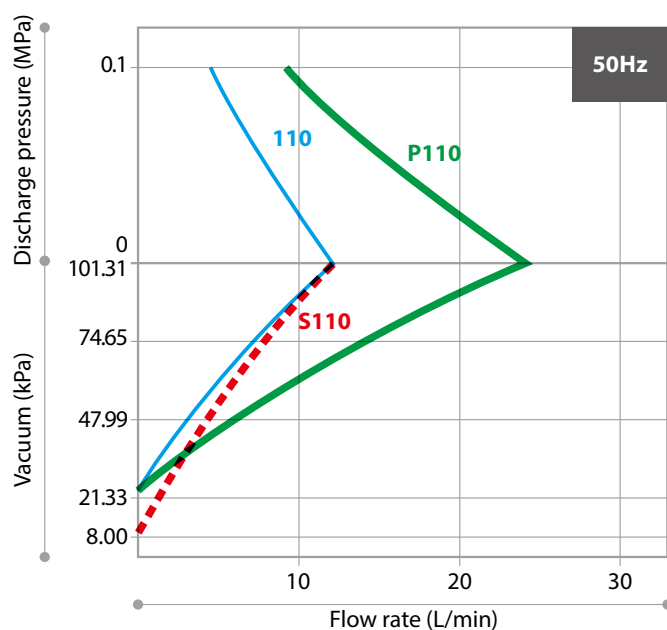


Pump Identification

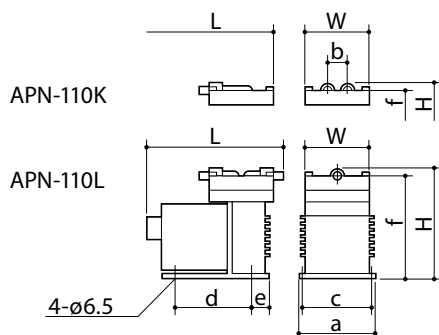
APN - S 110 L E X - 1 - 01						
1	2	3	4	5	6	7
1 Pump head No symbol: single head P : Dual-head with parallel tubing S : Dual-head with series tubing	2 Pump size 110	3 Inlet/outlet K : Parallel type L : In-line type	4 Diaphragm/Valve materials V : FKM • FKM E : EPDM • EPDM	5 Pump connection No symbol: Tube (ø8) X : Thread (Rc1/4) X1 : Thread (G1/4)	6 Power voltage 1: AC100V 50/60Hz 2: AC200V 50/60Hz 3: AC115V 60Hz 4: AC220/240V 50Hz E4 ^{Note} : AC220/240V 50Hz (Cabtyre cord/3-core)	7 Special version

Note: Single head type only

Performance Curves

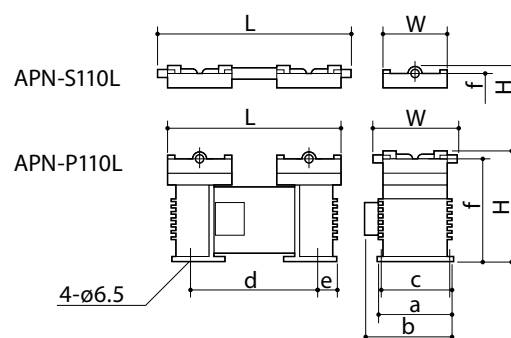


Dimensions in mm



Model	W	H	L	a	b	c	d	e	f
APN-110K	78	(134)	(152)	86	24	74	91	24	124
APN-110L			(164)		-				

This is the dimension of the hose connection type.



Model	W	H	L	a	b	c	d	e	f
APN-S110L	78	(134)	(236)	86	(104)	74	(154)	24	(124)
APN-P110L	102		(212)						

APN-215

Diaphragm type air pumps

Max. flow 15/18 to 30/36 L/min

Max. vacuum 7.99 to 39.99 kPa

Max. discharge pressure 0.2 MPa

Adjustment valve of fluid, please to be installed on the suction side of the pump.



215NV-1



215MV-1

Specification

Model	Max. flow (L/min)	Max. vacuum (kPa)	Max. discharge pressure (MPa)	Output (W)	Power consump- tion (W)	Rated current (A)	Rated voltage (V)
APN-215N	15/18	39.99	0.1	30	64/64	0.75/0.68	AC100
APN-215C		—	0.2				
APN-215M		26.66	—				
APN-S215M		7.99	—				
APN-P215N	28/32	39.99	0.1	45	95/95	1.00/1.00	
APN-P215C	30/36	—	0.2				
APN-P215M		26.66	—				

Connection size IN/OUT Hose Ø9mm, Thread G1/8

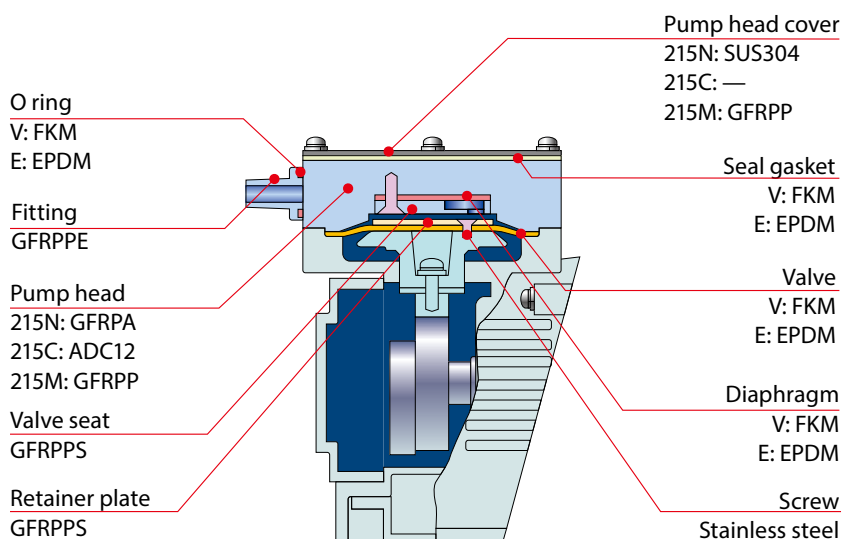
Mass 215: 3.5kg, S215/P215: 5.2kg

Handling gas temp 0 to 40°C

Ambient temp 0 to 40°C

Minimum starting temperature 0°C (S215M/P215N/P215C/P215M [115/220V]: 5°C

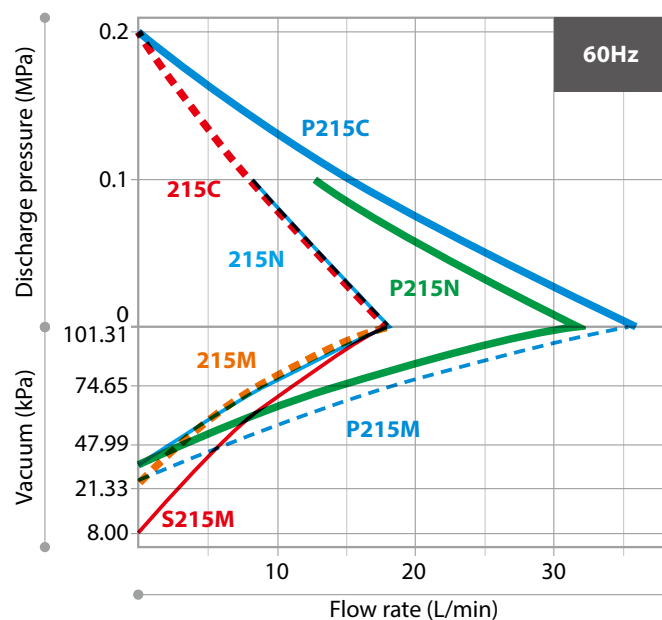
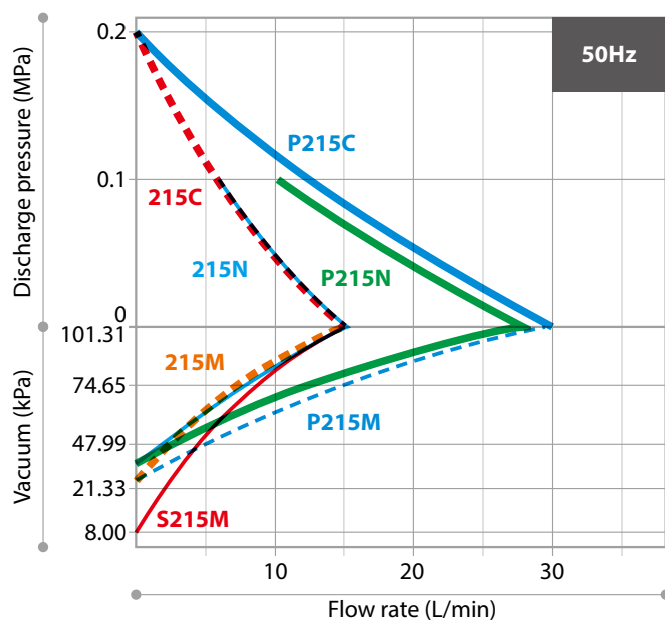
Construction and Materials



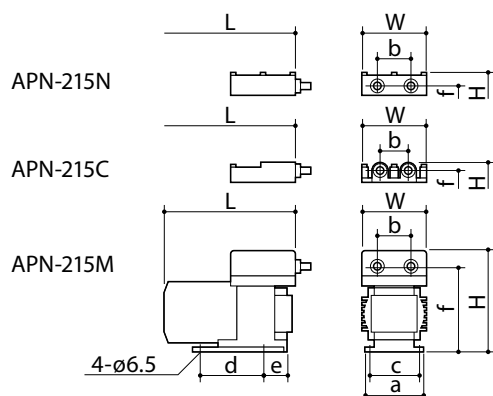
Pump Identification

APN - S 215 M E X - 1 - 01						
1	2	3	4	5	6	7
1 Pump head No symbol: single head P: Dual-head with parallel tubing S: Dual-head with series tubing	2 Pump size 215	3 Intended use N: Vacuum/Compression C: Compression M: Vacuum	4 Diaphragm/Valve materials V: FKM • FKM E: EPDM • EPDM	5 Pump connection No symbol: Tube (ø9) X: Thread (G1/8)	7 Special version	
6 Power voltage 1: AC100V 50/60Hz 2: AC200V 50/60Hz 3: AC115V 60Hz 4: AC220/240V 50Hz E4: AC220/240V 50Hz (Cabtyre cord/3-core)						

Performance Curves

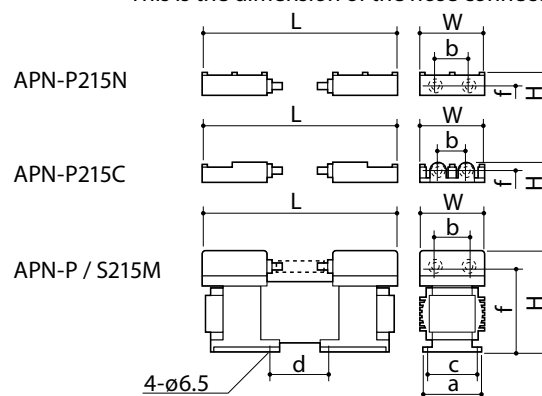


Dimensions in mm



Model	W	H	L	a	b	c	d	e	f
APN-215N		(147)			50				(125)
APN-215C	ø96	(140)	(195)	90	39	74	91	36	(130)
APN-215M		(151)			50				(125)

This is the dimension of the hose connection type.



Model	W	H	L	a	b	c	d	e	f
APN-P215N		(147)			50				(125)
APN-P215C	ø96	(140)	(282)	110	39	78	(90)	-	(130)
APN-P/S215M		(151)			50				(125)

APN-240

Diaphragm type air pumps

Max. flow 30/34 to 64/72 L/min

Max. vacuum 6.66 to 41.32 kPa

Max. discharge pressure 0.2 MPa

Adjustment valve of fluid, please to be installed on the suction side of the pump.



240MAN-1

Specification

Model	Max. flow (L/min)	Max. vacuum (kPa)	Max. discharge pressure (MPa)	Output (W)	Power consump- tion (W)	Rated current (A)	Rated voltage (V)
APN-240NAN	30/34	41.32	0.2	60	94/107	1.2/1.2	AC100
APN-240MAN	32/36	21.33	—				
APN-S240MANX		6.66	—	90	170/200	1.8/2.0	
APN-P240NAN	60/68	41.32	0.2				
APN-P240MAN	64/72	21.33	—				

Connection size IN/OUT 240: Hose Ø14mm, Thread G1/4, S240/P240: Thread Rc1/4

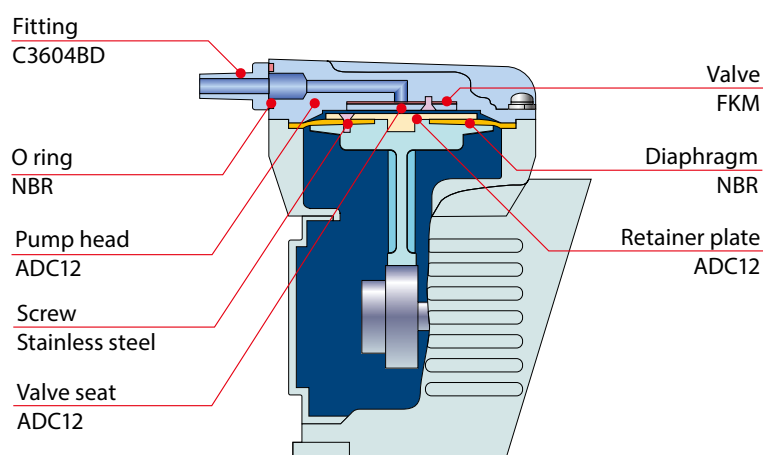
Mass 240: 7.0kg, S240/P240: 10.0kg

Handling gas temp 0 to 40°C (S240MANX-1: 5 to 40°C)

Ambient temp 0 to 40°C

Minimum starting temperature 240/P240NAN: 0°C, S240MANX/P240MAN: 5°C

Construction and Materials



Pump Identification

APN - S 240 N A N X - 1 - 01

1 2 3 4 5 6 7 8

- 1** Pump head
No symbol: single head
P: Dual-head with parallel tubing
S: Dual-head with series tubing

- 2** Pump size
240

- 3** Intended use
N: Vacuum/Compression
M: Vacuum

- 4** Pump head material
A: ADC12

- 5** Diaphragm/Valve materials
N: NBR/FKM

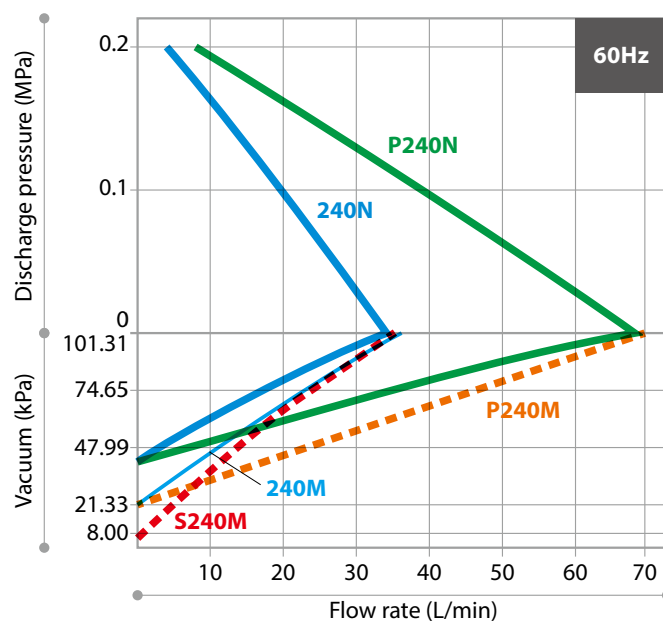
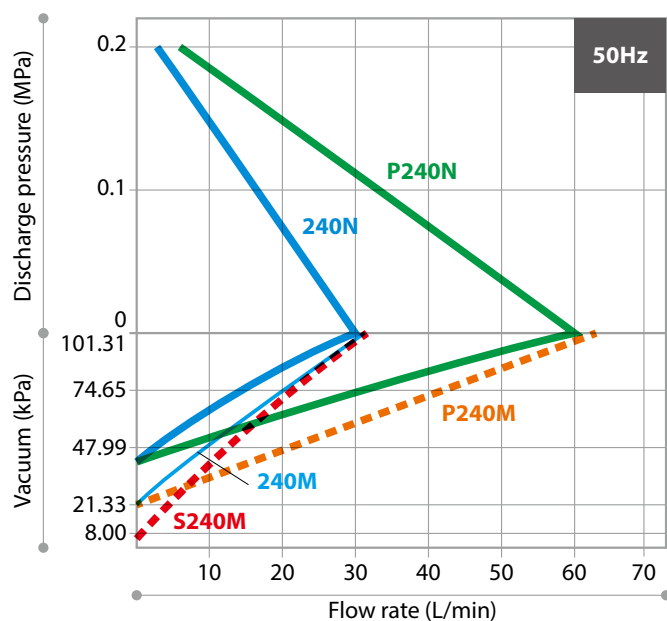
- 6** Pump connection
No symbol: Tube (Ø14) Standard
X: Thread (G1/4)^{Note}

- 7** Power voltage
1: AC100V 50/60Hz
2: AC200V 50/60Hz
3: AC115V 60Hz
4: AC220/240V 50Hz
E4: AC220/240V 50Hz
(Cable cord/3-core)

- 8** Special version

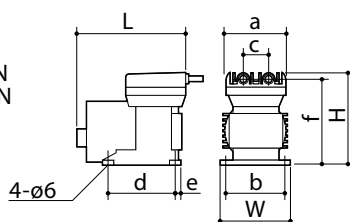
Note: S screw size of type. (two consecutive series type) is Rc1 / 4.

Performance Curves



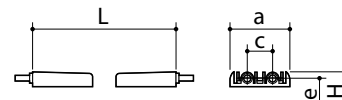
Dimensions in mm

APN-240NAN
APN-240MAN

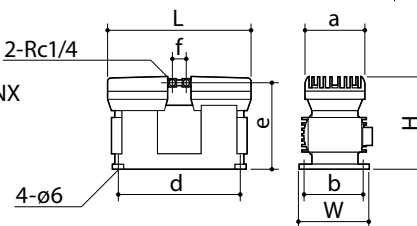


This is the dimension of the hose connection type.

APN-P240NAN
APN-P240MAN



APN-S240MANX



Model	W	H	L	a	b	c	d	e	f
APN-240NAN	140	(186)	(219)	122	125	48	135	(26)	(173)
APN-240MAN									

Model	W	H	L	a	b	c	d	e	f
APN-P240NAN									
APN-P240MAN	140	(186)	(297)	122	125	48	(245)	(173)	-
APN-S240MANX						-			(30)

APN-450

Diaphragm type air pumps

Max. flow 50/60 to 100/110 L/min

Max. vacuum 3.33 to 13.33 kPa

Max. discharge pressure 0.1 MPa

Adjustment valve of fluid, please to be installed on the suction side of the pump.



S450NSTX-1

450NATX-1

Specification

Model	Max. flow (L/min)	Max. vacuum (kPa)	Max. discharge pressure (MPa)	Output (W)	Power consumption (W)	Rated current (A)	Rated voltage (V)
APN-450NA/S	50/60	13.33	0.1	200	295/345	3.2/3.5	AC100
APN-S450NA/S		3.33	—				
APN-P450NA/S	100/110	13.33	0.1				

Connection size IN/OUT Hose Ø12mm, Thread Rc1/4

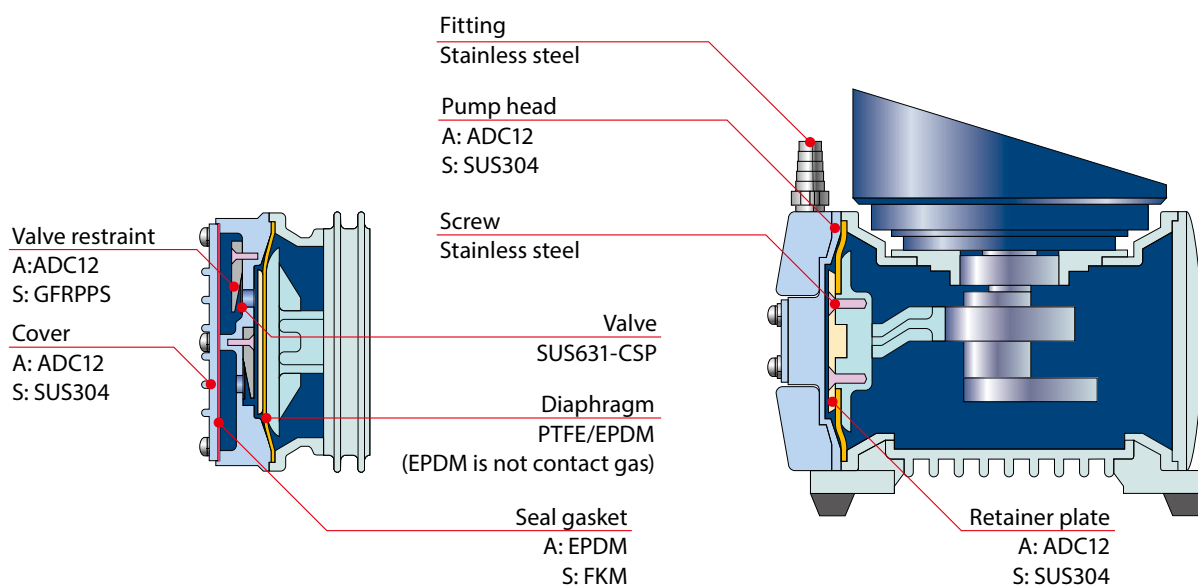
Mass 450NA: 12.0kg, 450NS: 14.2kg, S450NA: 13.0kg, S450NS: 17.4kg, P450NA: 12.8kg, S450NS: 17.1kg

Handling gas temp 0 to 40°C

Ambient temp 0 to 40°C

Minimum starting temperature 0°C

Construction and Materials



Pump Identification

APN - S 450 N A T X - 1 - 01

1 2 3 4 5 6 7 8

- 1** Pump head
No symbol: single head
P: Dual-head with parallel tubing
S: Dual-head with series tubing

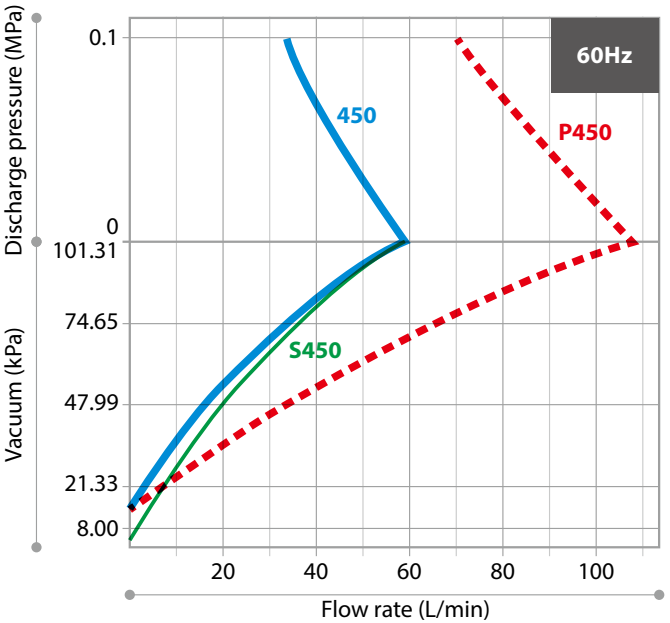
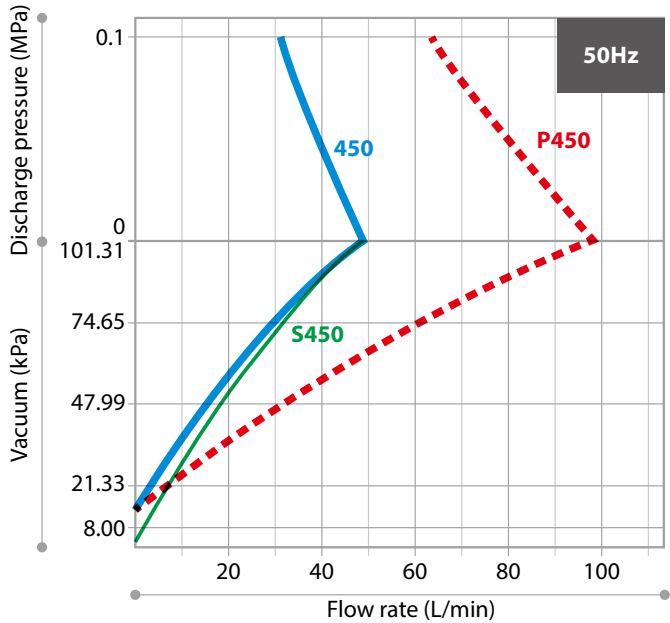
2 Pump size
450
- 3** Intended use
N: Vacuum/Compression

4 Pump head materials
A: ADC12
S: SUS304

5 Diaphragm/Valve materials
T: PTFE/EPDM, SUS631-CSP
- 6** Pump connection
No symbol: Tube (ø12)
X: Thread (Rc1/4)

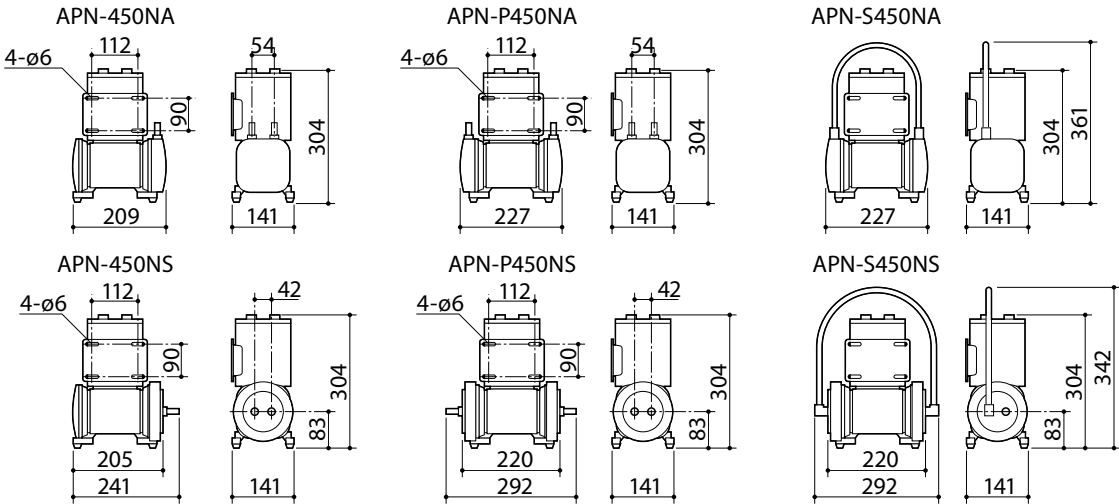
7 Power voltage
1: AC100V 50/60Hz
2: AC200V 50/60Hz
E4: AC220/240V 50Hz
(Cabtyre cord/3-core)
- 8** Special version

Performance Curves



Dimensions in mm

This is the dimension of the hose connection type.



APN-085-W

Gas and liquid transfer pumps

Max. capacity (Gas-liquid) **0.5 to 1.0 L/min**

Max. flow (Gas) **3/4 to 5/6 L/min**

Max. vacuum **34.66 to 37.33 kPa**

Max. discharge pressure **0.05 MPa**

Adjustment valve of fluid, please to be installed on the suction side of the pump.



Specifications

Model		Gas-liquid Max. capacity (L/min)	Gas Max. flow (L/min)	Max. vacuum (kPa)	Max. discharge pressure (MPa)	Output (W)	Power con- sumption (W)	Rated current (A)	Rated voltage (V)		
APN-085-W	EX type	0.5	3/4	34.66	0.05	20	47/44	0.60/0.50	AC100		
	VX type			37.33							
APN-P085-W	EX type	1.0	5/6	34.66			50/48				
	VX type			37.33							

Connection size IN/OUT Thread Rc1/8

Mass 085: 2.5kg, P085: 2.8kg

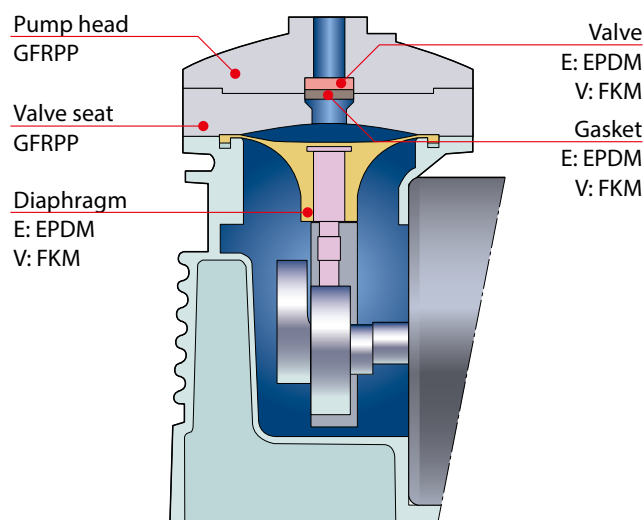
Handling gas temp. 0 to 40°C

Handling liquid temp. 5 to 40°C

Ambient temp. 0 to 40°C

Minimum starting temperature 5°C

Construction and Materials



Pump Identification

APN - P 085 E X - 1 - W 02

1 2 3 4 5 6 7

1 Pump head
No symbol : single head
P : Dual-head with parallel tubing

2 Pump size
085

3 Diaphragm/Valve materials
E : EPDM/EPDM
V : FKM/FKM

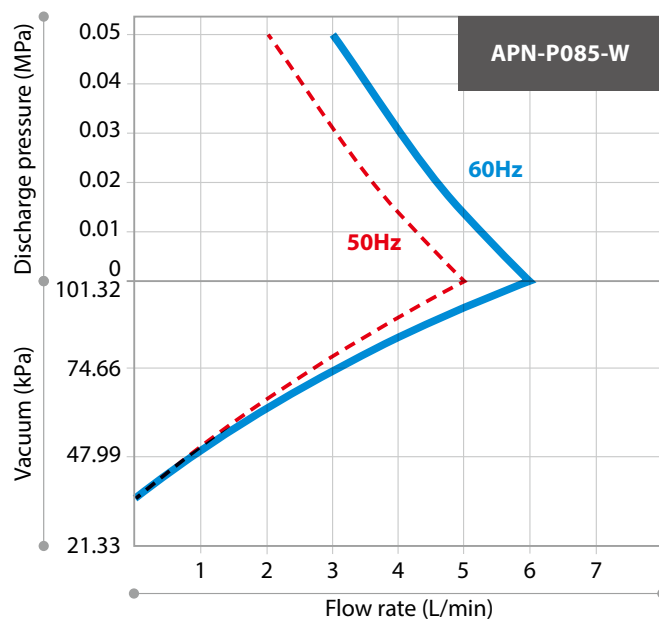
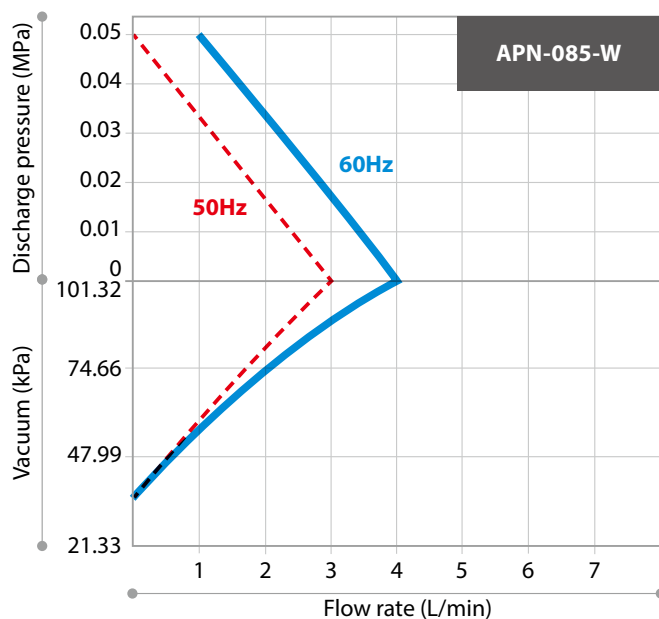
4 Pump connection
X : Thread(RC1/8)

5 Motor
1 : AC100V

6 Type
W : Gas-liquid transfer

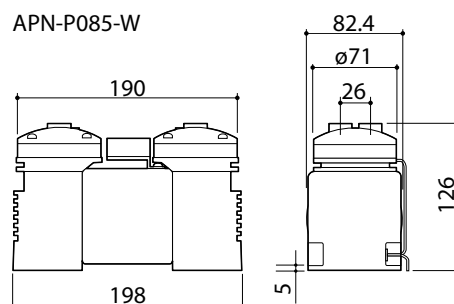
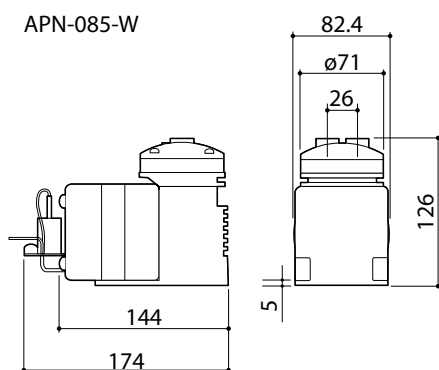
7 Special version

Performance Curves



Performance curve of the above is a thing of when it is dealing with air.
Please contact us for performance at the time of liquid and gas-liquid mixing handling.

Dimensions in mm



Optional Accessory

Muffler / Filter (APN series)

To be used as muffler when installed at discharge side and also as filter when installed at suction side. (Check valve incorporated filter is available as option)

- This may not be usable for some pump models and pump head design.
- When installed, performance will be affected.



AF - 2 V - 1 C

1 2 3

1 Materials

V : FKM

E : EPDM

N : CR / NBR
(gasket/O-ring,
check valve)

2 Connection diameter

1 : G1/8 (APN-215)

2 : G1/4 (APN-085, 110)

3 Options

C : with check
valve
incorporated

Main body material: PC alloy

Filter material: Melamine for V and E, urethane for N

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Caution for safety use:
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