IWAKI

Gas and Liquid Transfer Pumps & Air Pumps Catalog

APN/APN-W

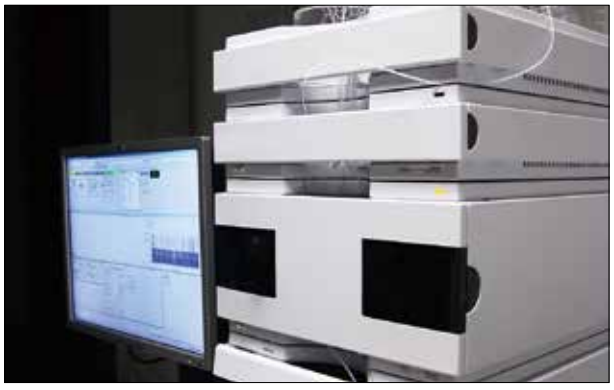
DC
MOTOR

wide range
Wide variation
For every need

The Heart of Industry

Wide range, wide variety
We respond to all needs.

Iwaki gas-liquid transfer pumps and air pumps are most appropriate for built-in applications.
They are widely used in analyzers and medical equipment for which high quality is required, as well as in laboratory instruments, industrial machines, and other devices.



Analyzers

Medical analyzers (biochemical analyzers [for medical waste liquor/washings collection]), environmental analyzers (spectral photometers [for material adsorption], leak testers, dust counters)

Medical equipment

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

Physics and chemistry instruments

Aspirators, liquid chromatography, particle counters, leak testers, sprays, culture apparatus, aseptic baths

Lineup

APN-W Gas and liquid transfer pumps

05 10 20

P. 7 8

Motor
Brushed/Brushless
Pump head
Single

10/20
Brushed motor

10/20
Brushless motor

30 60

P. 9 10

30/60 Brushed motor

30/60 Brushless motor

60 Dual-head type

Brushed/Brushless
Single/Dual

085

P. 11 12

Brushed
Single

APN Diaphragm air pumps

S041

P. 13 14

Brushless
Dual

031

P. 15 16

Brushed
Single

051

P. 15 16

Brushless
Single

085

P. 17 18

Brushed
Single

110

P. 19 20

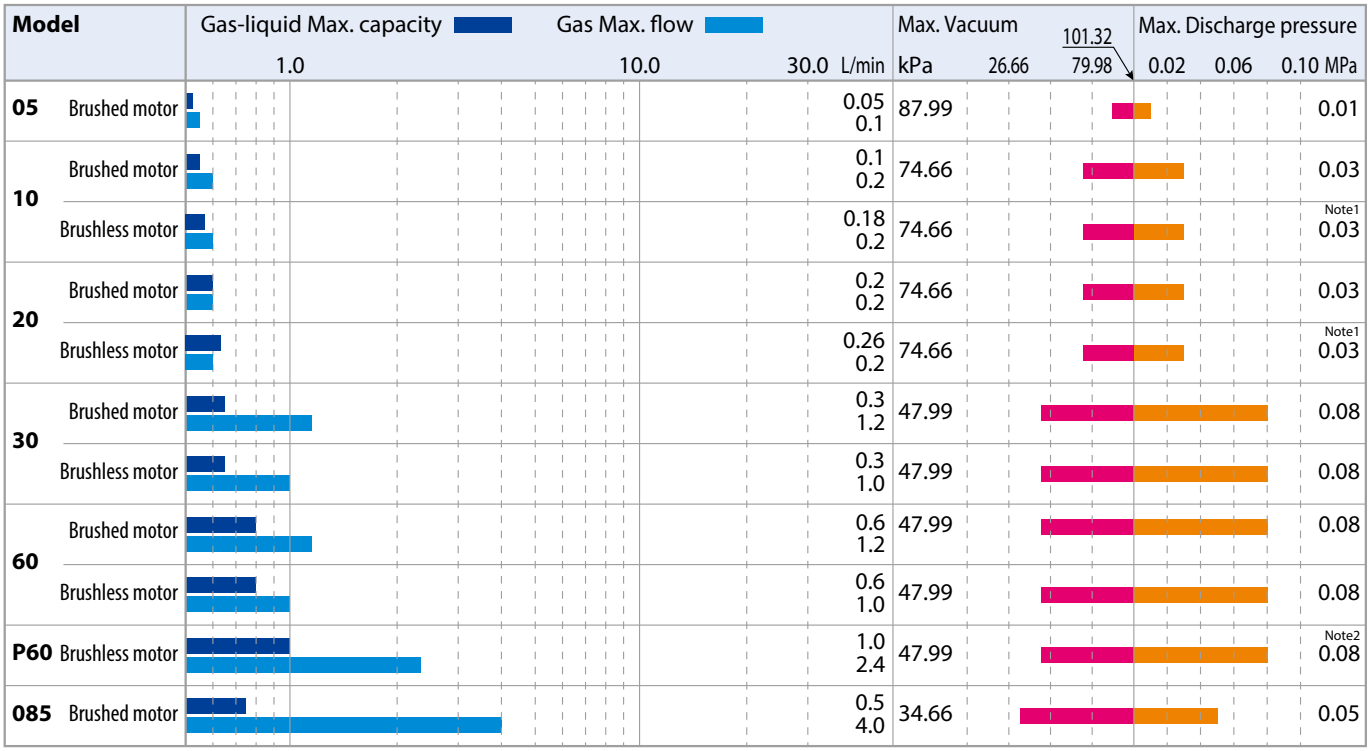
110

P110

Brushless
Single/Dual

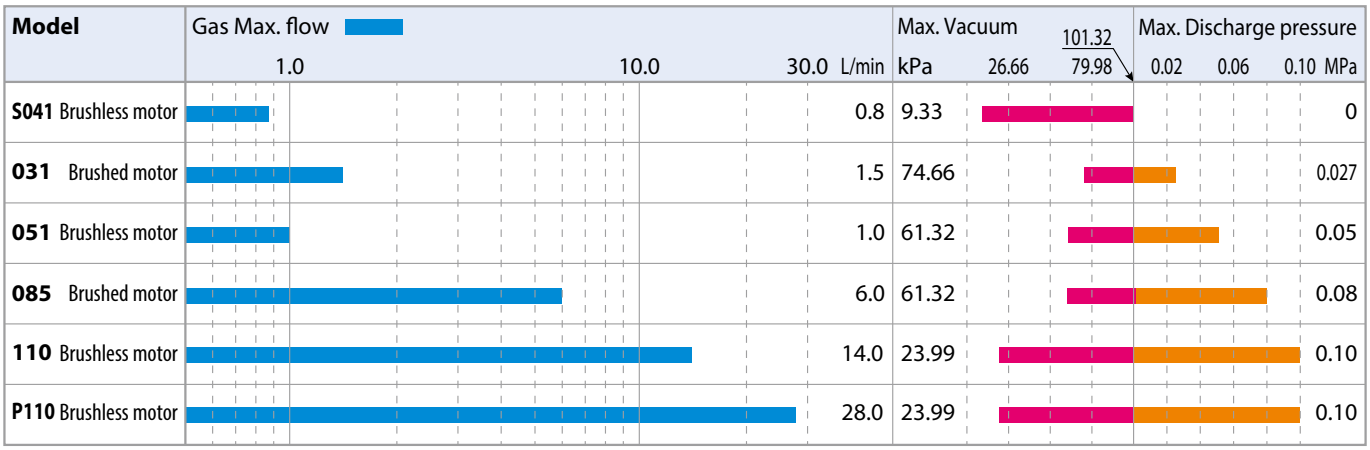
Specifications

APN-W (Gas and liquid transfer pumps)



Note1: Max. discharge pressure of the gas-liquid transfer is 0.1MPa.
Note2: Max. discharge pressure of the gas-liquid transfer is 0.05MPa.

APN (Diaphragm air pumps)



Model		Power consumption (W) DC12/24	Rated current (A) DC12/24	Rated voltage (V)	Connection size IN/OUT (mm)	Mass (kg)	Handling gas temp. (°C)	Handling liquid temp. (°C)	Limit cold start temperature (°C)
05	Brushed motor	4.8/4.8	0.4/0.2	DC12/24	Hose Ø4.5	0.11	5 to 40	10 to 40	5
10	Brushed motor								
	Brushless motor	–/7.2	–/0.3	DC24		0.2			
20	Brushed motor	–/4.8	–/0.2		Hose Ø5	0.11			
	Brushless motor	–/7.2	–/0.3			0.2			
30	Brushed motor	–/11.5	–/0.48		Hose Ø5.5	0.21			
	Brushless motor	–/14.4	–/0.6			0.24			
60	Brushed motor	–/11.5	–/0.48			0.21			
	Brushless motor	–/14.4	–/0.6			0.24			
P60	Brushless motor	–/20.6	–/0.86						
085	Brushed motor	19/19	1.6/0.8	DC12/24	Thread Rc1/8	2.5	0 to 40	5 to 40	FKM: 10 EPDM: 5

Liquid temperature 20°C

Model		Power consumption (W) DC12/24	Rated current (A) DC12/24	Rated voltage (V)	Connection size IN/OUT (mm)	Mass (kg)	Handling gas temp. (°C)	Ambient temp. (°C)	Limit cold start temperature (°C)
S041	Brushless motor	–/6	–/0.25 or less	DC24	Hose Ø4.5	0.4	0 to 40	0 to 40	0
031	Brushed motor	–/2.4	–/0.1	DC24	Hose Ø5	0.07			
051	Brushless motor	–/6	–/0.25	DC24	Hose Ø8, Thread Rc1/8	0.5	5 to 40	5 to 40	5
085	Brushed motor	19/19	1.6/0.8	DC12/24	Hose Ø8, Thread Rc1/4, G1/4	1.1	0 to 40	0 to 40	10
110	Brushless motor	–/33.6	–/1.4	DC24		1.4		5 to 40	5
P110	Brushless motor	–/55.2	–/2.3			3.3			

Feature

APN-W (Gas and liquid transfer pumps)

Compact and lightweight

A compact and lightweight design is used that is most appropriate for built-in applications and for waste liquid collection; and a structure with high corrosion resistance and enhanced reliability/durability enables continuous operation for an extended period of time and ensures long life.

Hygienic oil-free design, self-priming pumps without use of priming water

The motor-driven diaphragm pumps are oil-free and are most suitable for usage requiring clean liquid relay. A wide variety of models is available for various usage. Self-priming pumps require no priming water and realize gas-liquid transfer.

V-type valve for high sealing performance and for preventing foreign matter intrusion

A V-type valve is adopted. Pressing the valve enhances sealing performance, even when the valve is not in operation. In case of the intrusion of foreign matter into the transferred liquid, as a measure against the self-priming defect caused by weakened sealing performance due to the attachment of foreign matter to the valve, a groove is formed at the part to which the valve is fixed to prevent foreign matter intrusion. This keeps foreign matter out.

APN (Diaphragm air pumps)

Clean air transfer

The motor-driven diaphragm pumps are oil-/carbon-free and are highly airtight. Most suitable in medical or sampling equipment where air cleanness is required.

Long-life design

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

Easy maintenance

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

• Except for some products.

Pressure-withstanding diaphragm

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

APN-W

APN-085

APN-110

APN-05/10/20-W

Gas and liquid transfer pumps

Max. capacity (Gas-liquid) 0.05 to 0.26 L/min

Max.flow (Gas) 0.1 to 0.2 L/min

Max. vacuum 74.66 to 87.99 kPa(abs.)

Max. discharge pressure 0.03 MPa

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

10 Brushed motor type

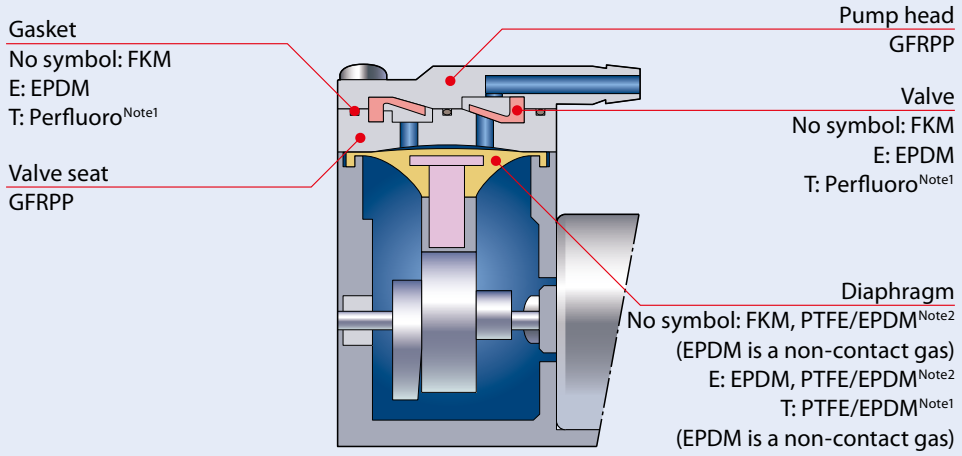
10 Brushless motor type

Specifications

Model	Motor	Gas-liquid Max. capacity (L/min)	Gas Max. flow (L/min)	Max. vacuum (kPa[abs.])	Max. discharge pressure (MPa)	Power consumption (W) DC12/24	Rated current (A) DC12/24	Rated voltage (V)
APN-05-W		0.05	0.1	87.99	0.01	4.8/4.8	0.4/0.2	DC12/24
APN-10-W	Brushed	0.1	0.2	74.66	0.03			
	Brushless	0.18			0.03[Note]	–/7.2	–/0.3	DC24
APN-20-W	Brushed	0.2			0.03	–/4.8	–/0.2	
	Brushless	0.26			0.03[Note]	–/7.2	–/0.3	

Connection size IN/OUT ..... APN-05/10-W: Hose barb Ø4.5mm, APN-20-W: Hose barb Ø5mm
Mass ..... Brushed type: 0.11kg, Brushless type: 0.2kg
Handling gas temp. ..... 5 to 40°C
Handling liquid temp. ..... 10 to 40°C
Minimum starting temperature ... 5°C
Note: Max. discharge pressure of the gas-liquid transfer is 0.1MPa.

Construction and materials



Note1: Special order on APN-10/20-W.
Note2: Diaphragm of APN-10 / 20D3-W is the PTFE / EPDM.

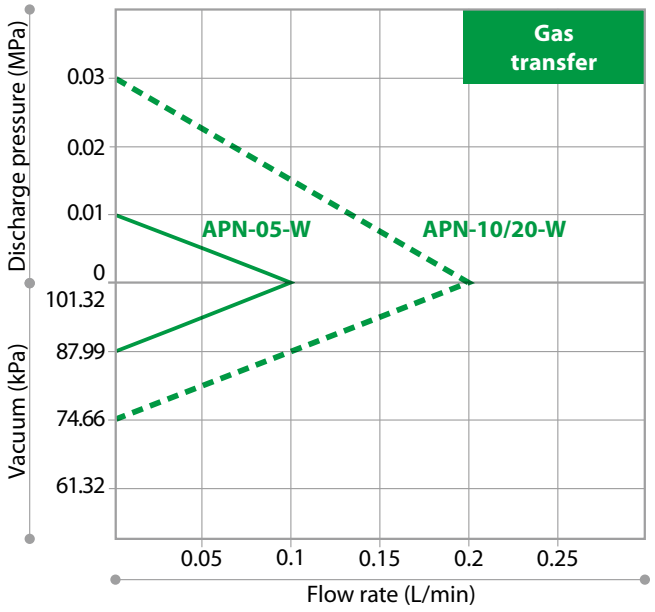
Pump identification

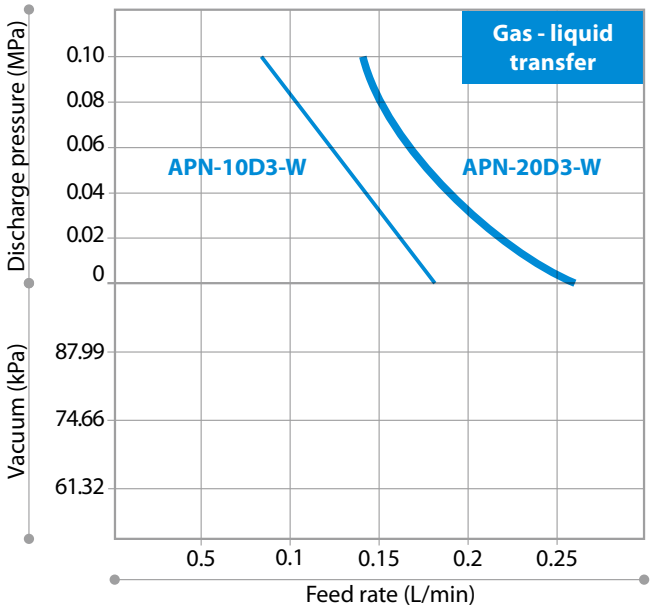
APN - 10 G E D1 - W 02

- **10** — Model: **05•10•20**
- **G** — Bracket type: No symbol: Without base; **G**: With base
- **E** — Diaphragm/Valve/Gasket materials: No symbol: FKM; **E**: EPDM[Note1]; **T**: PTFE/EPDM Perfluor®[Note1]
- **D1** — Motor: **D1**: Brushed 12VDC[Note2]; **D2**: Brushed 24VDC; **D3**: Brushless 24VDC[Note1]
- **W** — Type: **W**: Gas-liquid transfer
- **02** — Special version

Note1: 10•20 only
Note2: 05•10 only

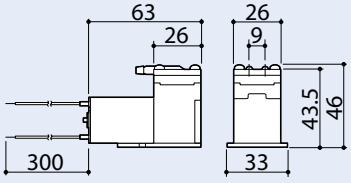
Performance curves



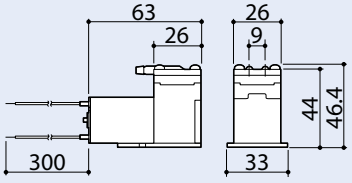


Dimensions in mm

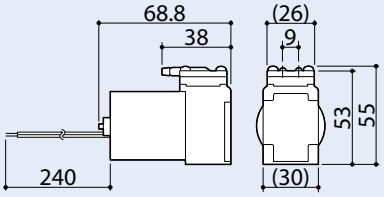
APN-05/10-W



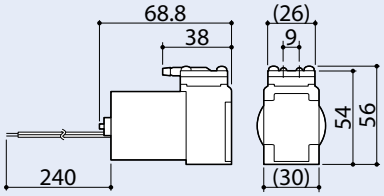
APN-20-W



APN-10-W Brushless



APN-20-W Brushless



APN-30/60-W

Gas and liquid transfer pumps

Max. capacity (Gas-liquid) 0.3 to 1.0 L/min

Max.flow (Gas) 1.0 to 2.4 L/min

Max. vacuum 47.99 kPa(abs.)

Max. discharge pressure 0.08 MPa

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

30/60 Brushed motor type

30/60 Brushless motor type

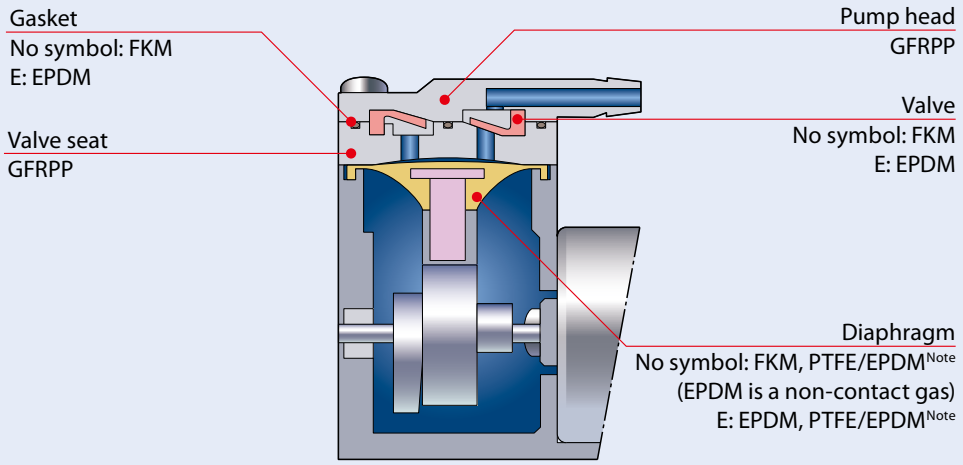
P60 Dual head type

Specifications

Model	Motor	Gas-liquid Max. capacity (L/min)	Gas Max. flow (L/min)	Max. vacuum (kPa[abs.])	Max. discharge pressure (MPa)	Power consumption (W)	Rated current (A)	Rated voltage (V)
APN-30-W	Brushed	0.3	1.2	47.99	0.08	11.5	0.48	DC24
	Brushless		1.0			14.4	0.6	
APN-60-W	Brushed	0.6	1.2			11.5	0.48	
	Brushless		1.0			14.4	0.6	
APN-P60-W		1.0	2.4		0.08[Note]	20.6	0.86	

Connection size IN/OUT .....Hose barb Ø5.5mm
Mass .....30/60 Brushed type: 0.21kg, 30/60 Brushless type / P60: 0.24kg
Handling gas temp. .....5 to 40°C
Handling liquid temp. .....10 to 40°C
Minimum starting temperature ...5°C
Note: Max. discharge pressure of the gas-liquid transfer is 0.05MPa.

Construction and materials



Note: Diaphragm only APN-P60 will PTFE / EPDM.

Pump identification

APN - 30 G E D1 - W 02

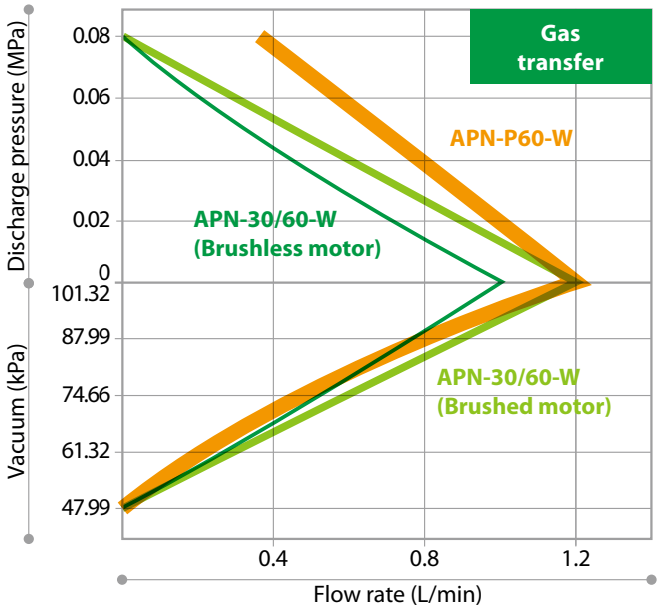
- Model **30•60**
- Diaphragm/Valve/Gasket materials
  No symbol: FKM
  E: EPDM
- Bracket type
  No symbol: Without base
  G: With base
- Motor
  D1: Brushed 12VDC[Note]
  D2: Brushed 24VDC
  D3: Brushless 24VDC (Uncontrollable)
- Type
  W: Gas-liquid transfer
- Special version

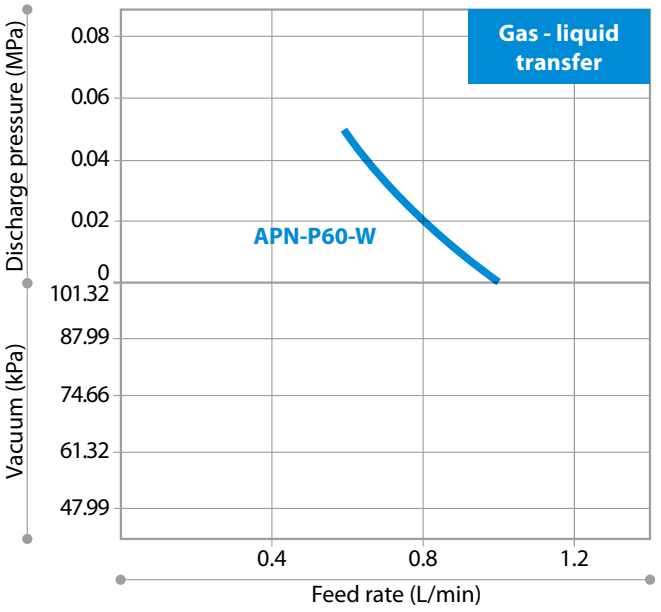
APN - P 60 G E D4 - W 02

- Pump head
  P: Dual-head with parallel tubing
- Model **60**
- Bracket type
  No symbol: Without base
  G: With base
- Diaphragm/Valve/Gasket materials
  No symbol: PTFE/EPDM·FKM
  E: PTFE/EPDM·EPDM
- Motor
  D4: Brushless 24VDC (controllable)
- Type
  W: Gas-liquid transfer
- Special version

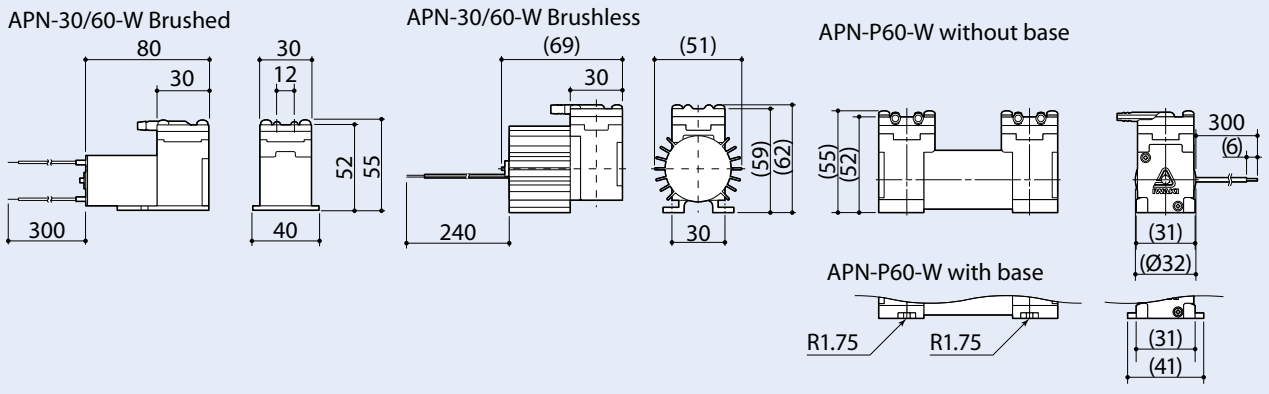
Note: Please coutact us for details about brushed 12VDC products.

Performance curves





Dimensions in mm



APN-085-W

Gas and liquid transfer pumps

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

Max.flow (Gas) 4.0 L/min

Max. vacuum 34.66 to 37.33 kPa(abs.)

Max. discharge pressure 0.05 MPa

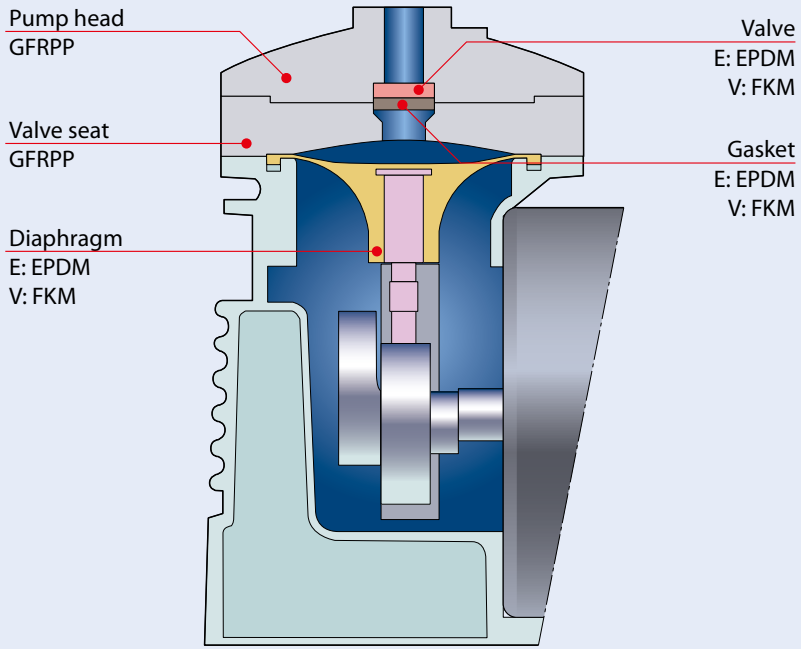
Adjustment valve of fluid, please to be installed on the suction side of the pump.

Specifications

Model		Gas-liquid Max. capacity (L/min)	Gas Max. flow (L/min)	Max. vacuum (kPa[abs.])	Max. discharge pressure (MPa)	Power consumption (W) DC12/24	Rated current (A) DC12/24	Rated voltage (V) DC12/24
APN-085-W	EX type	0.5	4.0	34.66	0.05	19/19	1.6/0.8	DC12/24
	VX type			37.33				

Connection size IN/OUT .....Thread Rc1/8
Mass 2.5kg
Handling gas temp. .....0 to 40°C
Handling liquid temp. .....5 to 40°C
Minimum starting temperature ...FKM: 10°C, EPDM: 5°C

Construction and materials

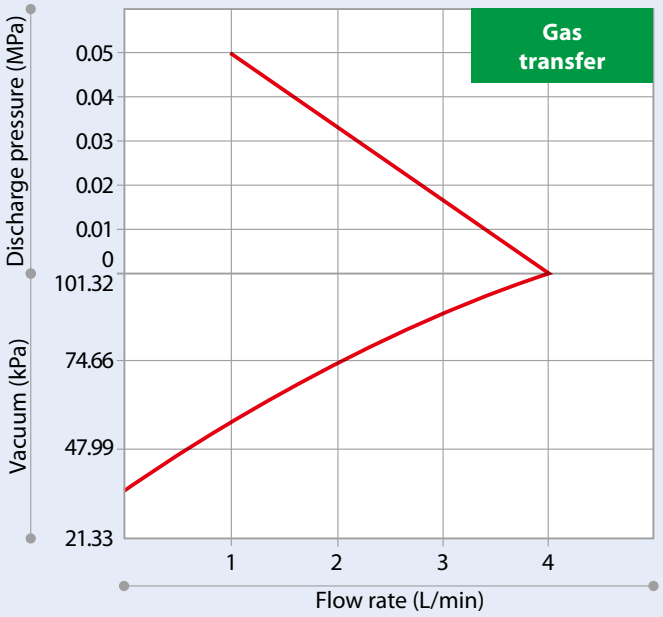


Pump identification

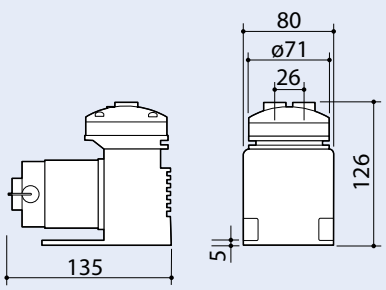
APN - 085 E X - D1 - W 02

- **085** — Model
- **E**: EPDM; **V**: FKM — Diaphragm (Valve) materials
- **X**: Thread (Rc1/8) — Connection size
- **D1**: Brushed 12VDC; **D2**: Brushed 24VDC — Motor
- **W**: Gas-liquid transfer — Type
- Special version

Performance curves



Dimensions in mm



APN-S041

Max.flow 0.8 L/min

Max. vacuum 9.33 kPa(abs.)

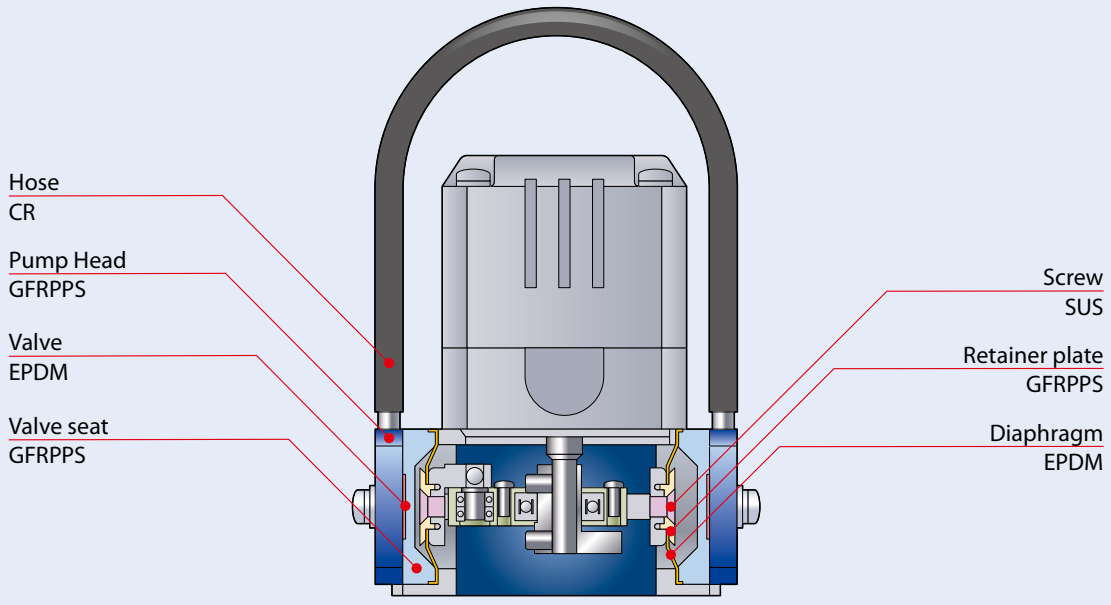
Oberve the maximum allowable discharge pressure of 0.0MPa.

Specifications

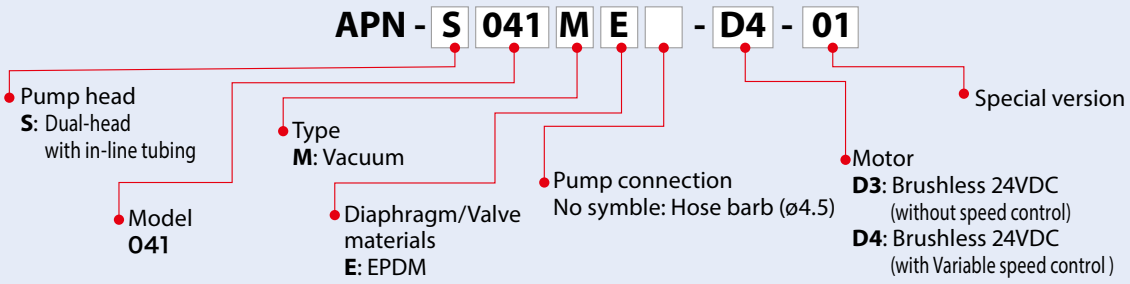
Model	Max. flow (L/min)	Max. vacuum (kPa[abs.])	Power consumption (W)	Rated current (A)	Rated voltage (V)
APN-S041ME-D3 *	0.8	9.33	6.0	0.25 or less	DC24
APN-S041ME-D4 *					

Connection size IN/OUT .....Hose barb Ø4.5mm
Mass 0.4kg
Handling gas temp. .....0 to 40°C
Ambient temp. .....0 to 40°C
Minimum starting temperature ...0°C
* D3: 2 wire, D4: 4 wire

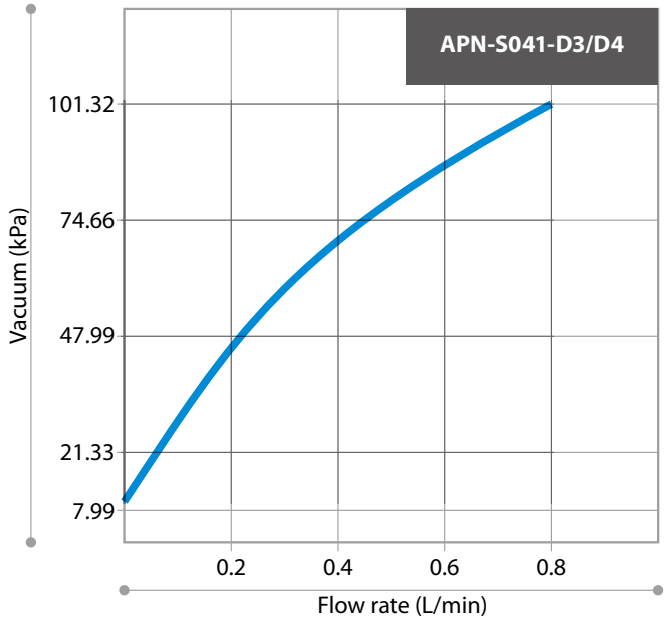
Construction and materials



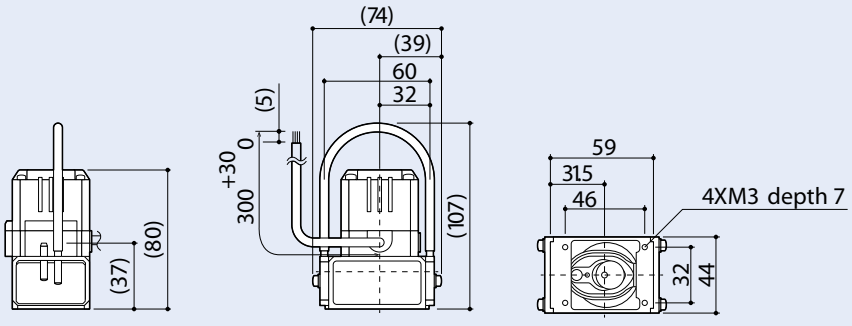
Pump identification



Performance curves



Dimensions in mm



APN-031/051

Diaphragm air pumps

Max.flow 1.0 to 1.5 L/min

Max. vacuum 61.32 to 74.66 kPa(abs.)

Max. discharge pressure 0.027 to 0.05 MPa

031

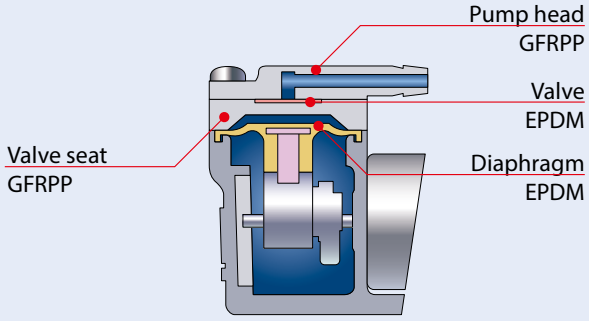
051

Specifications

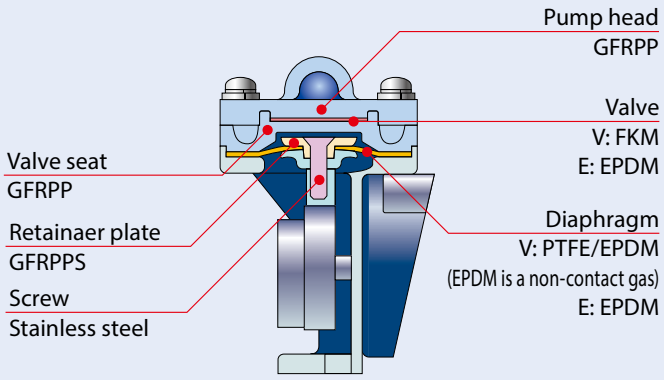
Model	Max. flow (L/min)	Max. vacuum (kPa[abs.])	Max. discharge pressure (MPa)	Power consumption (W) DC24	Rated current (A) DC24	Rated voltage (V)
APN-031	1.5	74.66	0.027	2.4	0.1	DC24
APN-051	1.0	61.32	0.05	6	0.25	DC24

Connection size IN/OUT .....031: Hose barb Ø5mm, 051/052: Hose barb Ø5mm, Ø8mm, Thread Rc1/8
Mass 031: 0.07kg, 051: 0.5kg, 052: 0.4kg
Handling gas temp. .....0 to 40°C
Ambient temp. .....0 to 40°C
Minimum starting temperature ...031: 0°C, 051: 5°C

Construction and materials



APN-031



APN-051

Pump identification

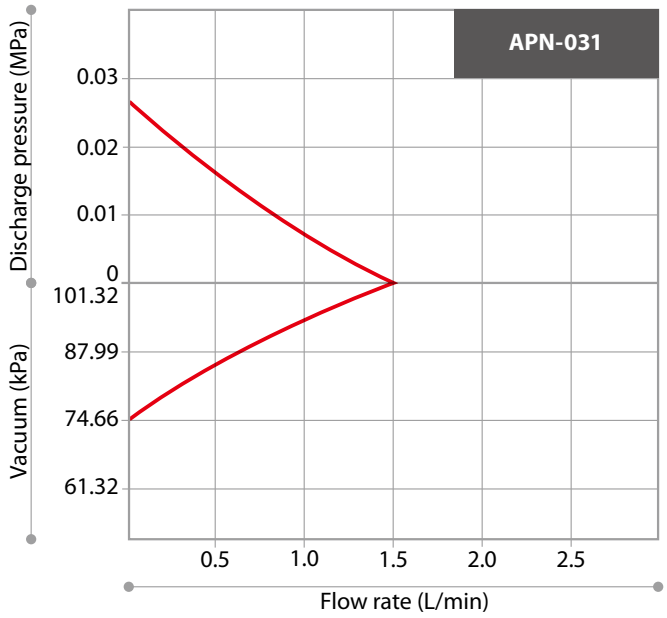
APN - 031 D2 - 01

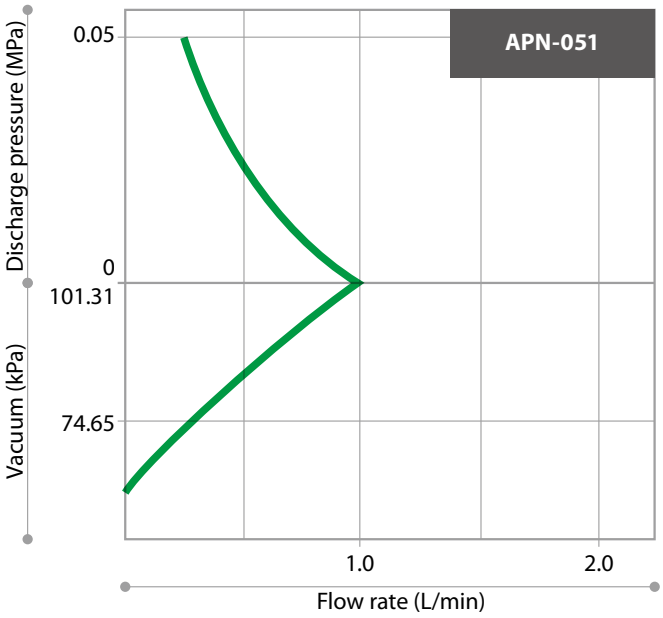
- Model **031**
- Motor **D2**: 24VDC
- Special version

APN - 051 L E X - D3 - 01

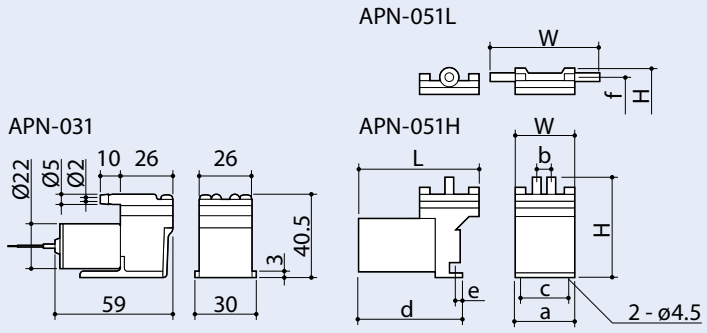
- Model **051**
- Pump head
  L: Horizontally oriented
  H: Vertically oriented
- Diaphragm/Valve materials
  V: PTFE/EPDM • FKM
  E: EPDM • EPDM
- Pump connection
  No symble: Hose barb (Ø8)
  X: Thread (Rc1/8)
- Motor
  D3: Brushless 24VDC
  (Uncontrollable) (Only 051)
- Special version

Performance curves





Dimensions in mm



Model	W	H	L	a	b	c	d	e	f
APN-051L	86	(75)	(90)	46	—	32	(76)	6.5	(67)
APN-051H	46	(78)			13				—

APN-085

Diaphragm air pumps

Max.flow 6 L/min

Max. vacuum 34.66 to 61.32 kPa(abs.)

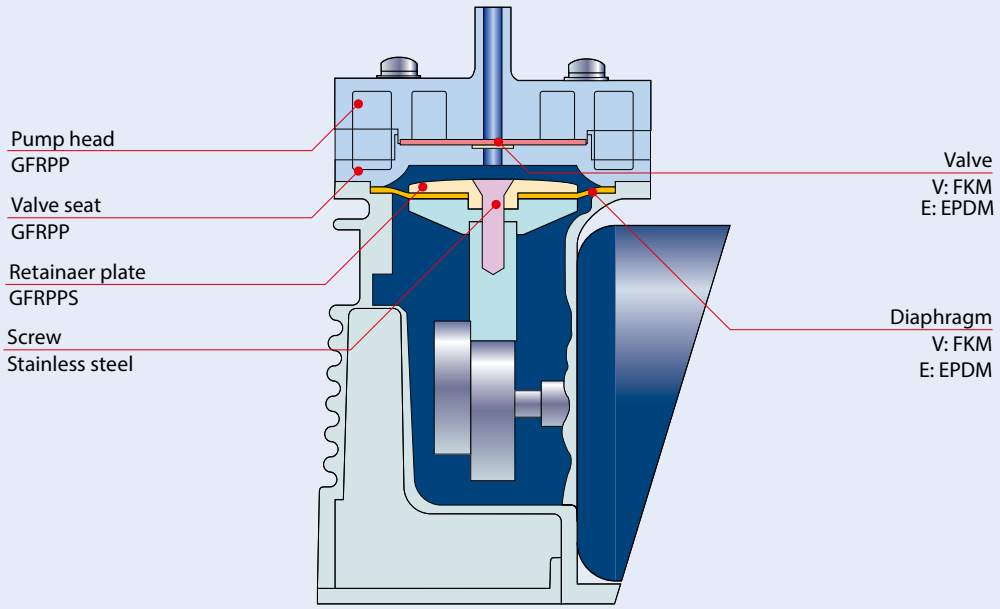
Max. discharge pressure 0.08 MPa

Specifications

Model	Max. flow (L/min)	Max. vacuum (kPa)	Max. discharge pressure (MPa)	Power consumption (W) DC12/24	Rated current (A) DC12/24	Rated voltage (V)
APN-085-D1/D2	6	61.32	0.08	19/19	1.6/0.8	DC12/24
APN-085L/H-D1/D2		34.66				

Connection size IN/OUT ..... Hose Ø8mm, Thread Rc1/4, G1/4
Mass 1.1kg
Handling gas temp. ..... 0 to 40°C
Ambient temp. ..... 0 to 40°C
Minimum starting temperature ...10°C

Construction and materials

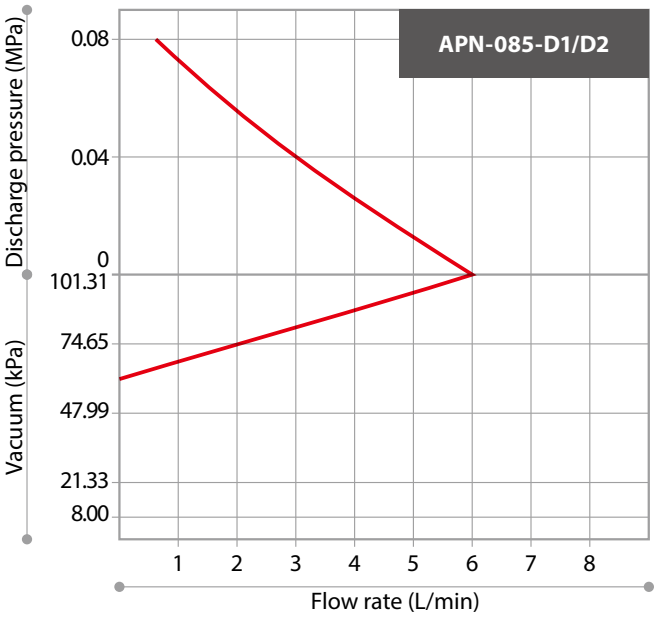


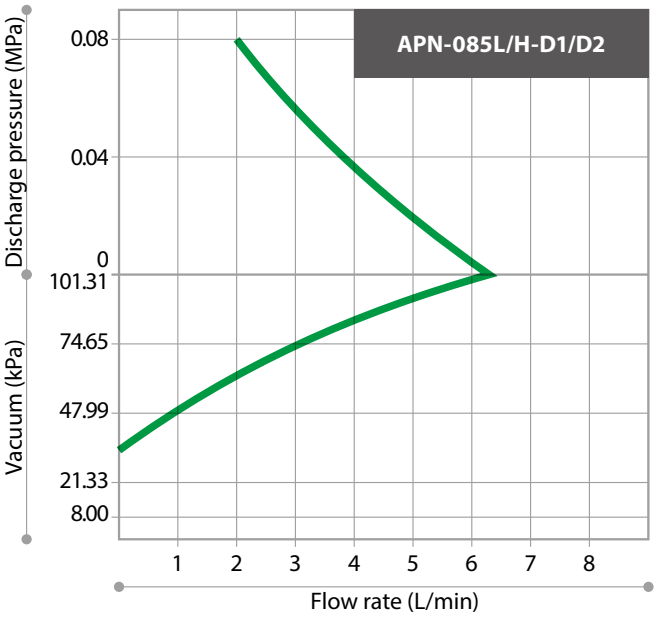
Pump identification

APN - 085 L V X - D2 - 01

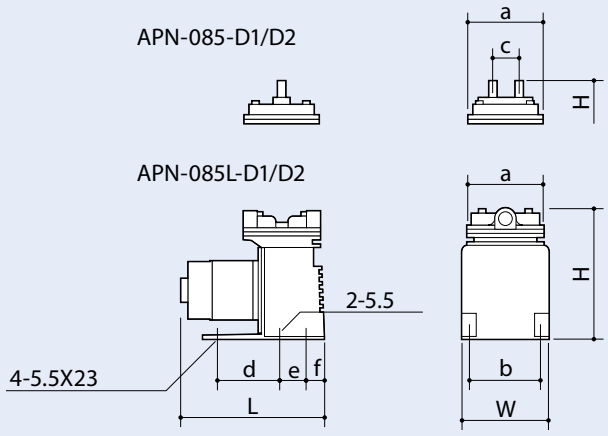
- Model **085**
- Pump head
  No symble: Corrosion resistant
  L: Horizontally oriented
  H: Vertically oriented
- Diaphragm/Valve materials
  E: EPDM
  V: FKM
- Pump connection
  No symble: Tube (ø8)
  X: Thread (Rc1/4)
  X1: Thread (G1/4)
- Motor
  D1: Brushed 12VDC
  D2: Brushed 24VDC
- Special version

Performance curves





Dimensions in mm



Model	W	H	L	a	b	c	d	e	f
APN-085-D1/2	80	(136)	(135)	71	66	24	57	21.5	18.5
APN-085L/H-D1/2		(121)		72		—	56.5		

APN-110

Diaphragm air pumps

Max.flow 14 to 28 L/min

Max. vacuum 23.99 kPa(abs.)

Max. discharge pressure 0.1 MPa

APN-110

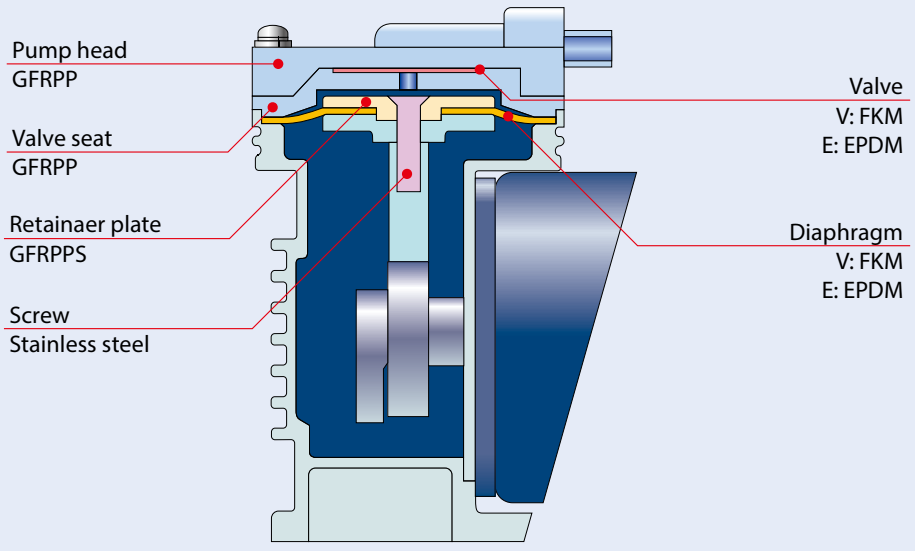
APN-P110

Specifications

Model	Max. flow (L/min)	Max. vacuum (kPa[abs.])	Max. discharge pressure (MPa)	Power consumption (W)	Rated current (A)	Rated voltage (V)
APN-110K/L-D4	14	23.99	0.1	33.6	1.4	DC24
APN-P110L-D4	28	23.99	0.1	55.2	2.3	DC24

Connection size IN/OUT .....Hose barb Ø8mm, 110: Thread Rc1/4, G1/4, P110: Thread Rc1/4
Mass 110: 1.4kg, P110: 3.3kg
Handling gas temp. .....0 to 40°C
Ambient temp. .....5 to 40°C
Minimum starting temperature ...5°C

Construction and materials

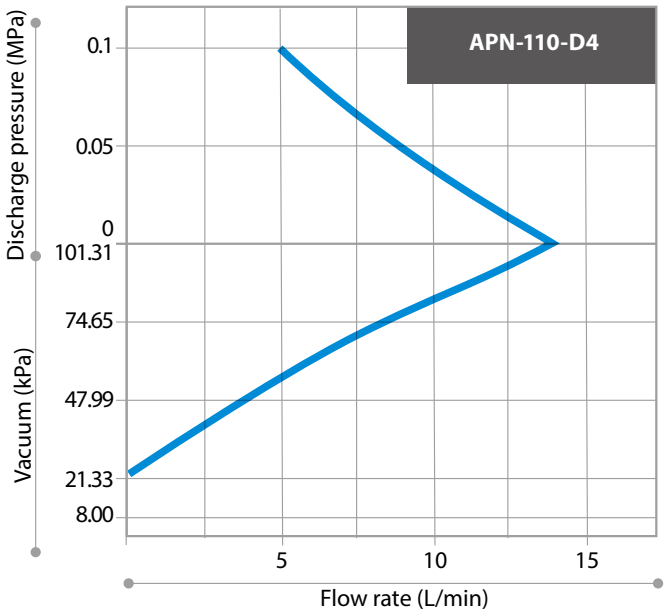


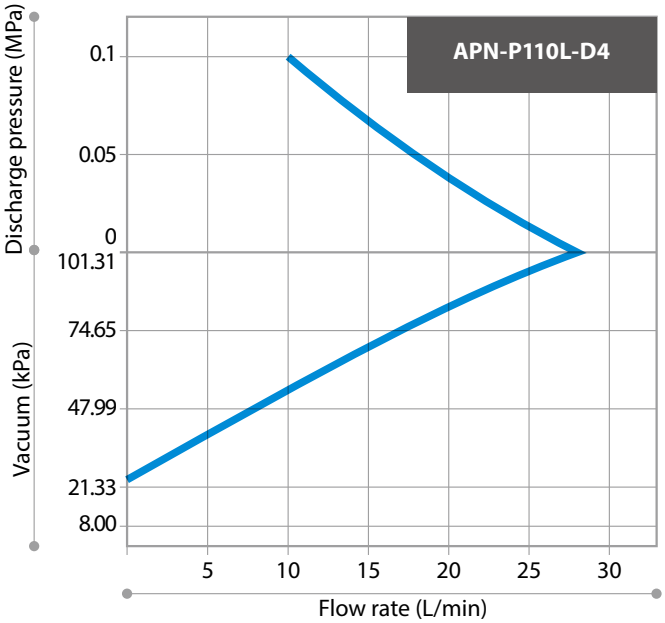
Pump identification

APN - P 110 L V X - D4 - 02

- **P**: Pump head
  No symble: Single hend
  P: Dual-head with parallel tubing
- **110**: Model
  110
- **L**: Inlet/outlet
  K: Parallel type
  L : In-line type
- **V**: Diaphragm/Valve materials
  E: EPDM
  V: FKM
- **X**: Pump connection
  No symble: Hose barb (O.D.ø8)
  X : Thread (Rc1/4)
  X1: Thread (G1/4)
- **D4**: Motor
  D4: Brushless 24VDC (Controllable)
- **02**: Special version

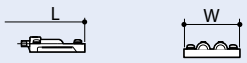
Performance curves



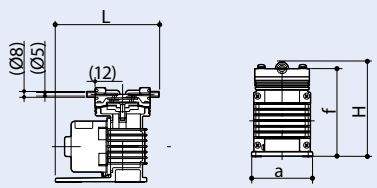


Dimensions in mm

APN-110L V/E X/X1 APN-110K V/E (X/X1)



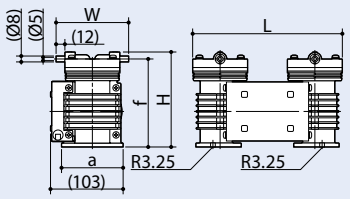
APN-110L V/E



Model	W	H	L	a	f
APN-110K V/E	78	134	134	74	124
APN-110K V/E X/X1					
APN-110L V/E			146		
APN-110L V/E X/X1			134		

APN-P110LX

APN-P110L



Model	W	H	L	a	f
APN-P110L	(102)	(134)	(129)	86	124
APN-P110LX	(78)				

Optional accessory

Filter and Muffler (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)

AF - 2 V - 1 C

- Materials
  - **V**: FKM
  - **E**: EPDM
  - **N**: CR / NBR (gasket/O-ring, check valve)
- Connection diameter
  - **1**: G1/8 (APN-215)
  - **2**: G1/4 (APN-085)
- Options
  - **C**: with check valve incorporated

Main body material: PC alloy
Filter material: Melamine for V and E, urethane for N

This may not be usable for some pump types and pump head shapes.
When installed, performance will be affected.

List of Available Materials

Symbol of Material	Name
GFRPP	Glass-fiber-reinforced polypropylene
GFRPPS	Glass-fiber-reinforced polyphenylene sulfide resin
GFRPA	Glass-fiber-reinforced polyamide resin
GFRPPE	Glass-fiber-reinforced polyphenyl ether resin
PTFE	Tetra-fluoroethylene resin
PCTFE	Polychlorotrifluoroethylene
FKM	Fluorocarbon rubber
EPDM	Ethylene propylene rubber
NBR	Nitrile butadiene rubber
CR	Chloroprene rubber
ADC12	Aluminum diecast
SUS304	Stainless steel 304
SUS316	Stainless steel 316
SUS631-CSP	Stainless steel (strip steel for spring)
AM350	Precipitation-hardening stainless steel (steel plates for springs)
AC2A	aluminum casting alloy

Unit of vacuum pressure

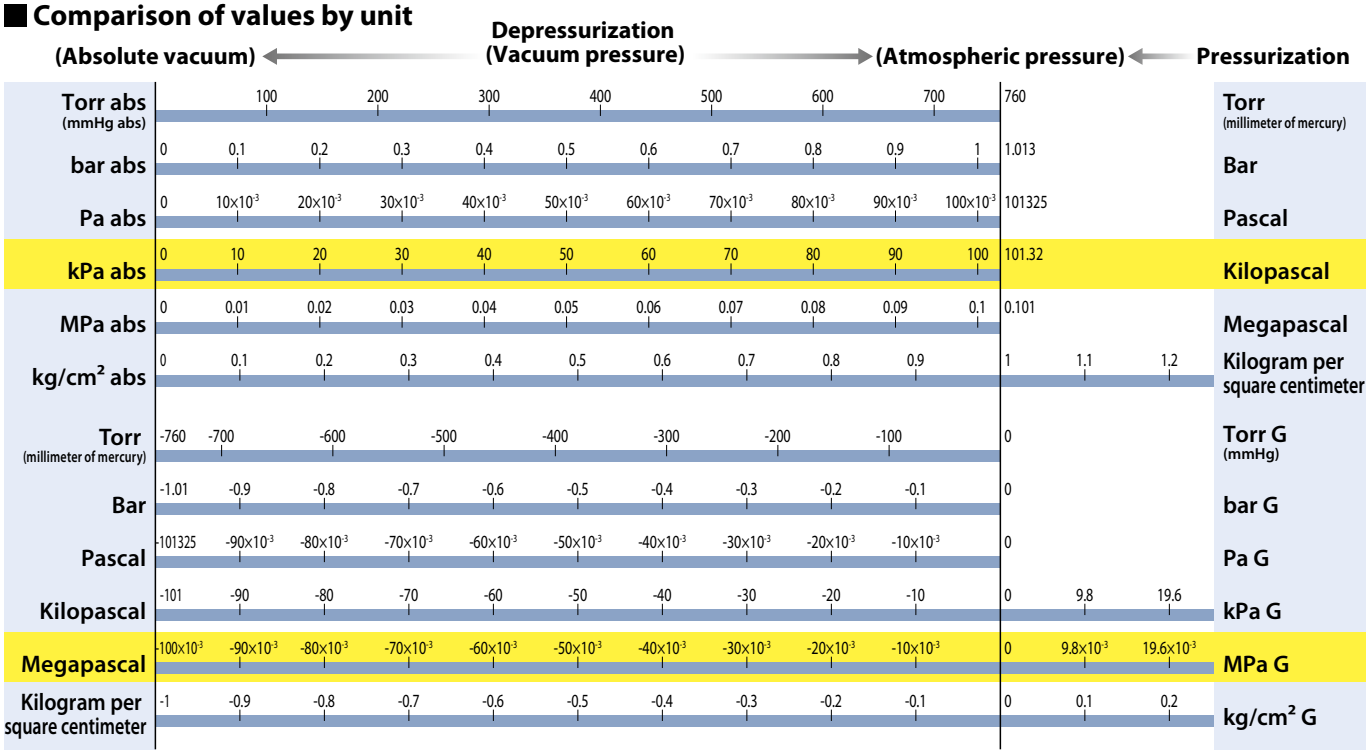
In the new Measurement Act, the following are used as the SI unit: “Pa (pascal),” “N/m2 (newton per square meter),” and “bar (bar).” As well, the non-SI unit, “Torr” (Torr), is admitted for the pressure within an organism, and “mmHg” (millimeter of mercury) is admitted for blood pressure.
There are two methods of vacuum pressure notation, as below.
In the vacuum industry, absolute pressure is used. In other industries, however, gauge pressure is used in many cases. Thus, when viewing materials or catalogues, you need to check which method is used for the notation of pressure.

1. **Absolute pressure by setting the absolute vacuum equal to 0 (zero)**
   “a” or “abs” is notated after the unit notation (often omitted).
2. **Gauge pressure by setting the atmospheric pressure equal to 0 (zero)**
   “G” or “Gauge” is notated after the unit notation (often omitted).

■ Values of atmospheric pressure by each unit of pressure

Unit	Pronunciation	Values by absolute pressure notation			Values by gauge pressure notation		
		Atmospheric pressure	Range of vacuum pressure	Absolute vacuum	Atmospheric pressure	Range of vacuum pressure	Absolute vacuum
Pa (N/m^2)	Pascal (newton per square meter)	101325	⟷	0	0	⟷	-101325
kPa	Kilopascal	101.3	⟷	0	0	⟷	-101.3
MPa	Megapascal	0.101	⟷	0	0	⟷	-0.101
bar	Bar	1.013	⟷	0	0	⟷	-1.013
mbar	Millibar	1013	⟷	0	0	⟷	-1013
Torr	Torr	760	⟷	0	0	⟷	-760
mmHg	Millimeter of mercury	760	⟷	0	0	⟷	-760
mmH_2O (Aq)	Millimeter of water (Aqua)	10342	⟷	0	0	⟷	-10342
atm	Atmosphere	1	⟷	0	0	⟷	-1
psi (lbf/in^2)	Pound-force per square inch	14.696	⟷	0	0	⟷	-14.696
kgf/cm^2	Kilogram-force per square centimeter	1.0332	⟷	0	0	⟷	-1.0332

■ Comparison of values by unit

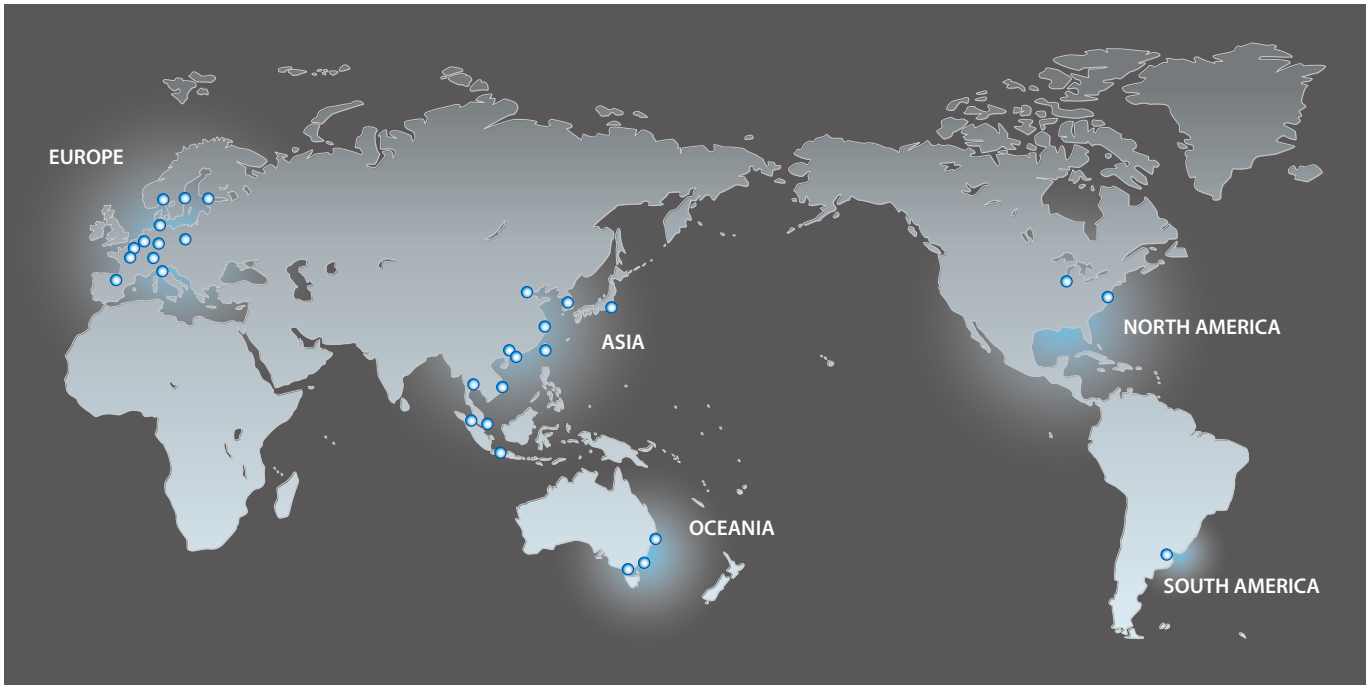


■ Unit conversion table

	Pa (N/m^2)	Torr (mmHg)	atm	mbar	psi (bf/in^2)	kgf/cm^2	mH_2O
1 Pa (N/m^2)	1	7.50×10^{-3}	9.87×10^{-6}	10^{-2}	1.45×10^{-4}	1.02×10^{-5}	1.02×10^{-4}
1 Torr (mmHg)	133.32	1	1.316×10^{-3}	1.33	1.93×10^{-2}	1.359×10^{-3}	1.36×10^{-2}
1 atm	1.013×10^{5}	760	1	1.013×10^{3}	14.696	1.033	10.34
1 mbar	100	0.750	9.87×10^{-4}	1	1.45×10^{-2}	1.02×10^{-3}	10.206×10^{-3}
1 psi (bf/in^2)	6.89×10^{3}	51.71	6.8×10^{-2}	6.89	1	7.031×10^{-2}	0.703
1 kgf/cm^2	9.8×10^{4}	735.56	0.968	9.81×10^{2}	14.223	1	10
1 mH_2O	9.8×10^{3}	73.49	9.68×10^{-2}	98.0	1.421	0.1	1

IWAKI World Wide Network

Our subsidiary in Germany and other joint companies throughout the world provide high-level support for our customers. We feel that "real service" means not only to merely provide products but to also organically combine the information collected via our worldwide network and our special knowledge based on our long years of experience, all to deliver value to customers.



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( )Country codes

IWAKI feels that “production systems” are “quality assurance systems.”

IWAKI “positions all production processes as processes of quality control,” and for the entire processes of development/design, procurement, and production, through to shipment, we strictly check each process based on quality assurance standards by observing ISO9001 and by using state-of-the-art test devices. We aim to attain a “zero failure rate.” We have also obtained ISO14001 environmental management system certification. We have been promoting activities taking into consideration impact on the environment.

ISO 14001 JQA-EM4848
ISO 9001 JQA-1173

Saitama Plant

ISO 14001 JQA-EM4848
ISO 9001 JQA-1173

Miharu Plant

Regarding compliance with RoHS Directive/CE Marking

The RoHS Directive is a restriction related to chemicals contained in electric/electronic devices issued by the EU (European Union). Currently, it has been replaced with the RoHS Recast Directive, and the RoHS Recast Directive is now being applied.
CE Marking applied to a product is a manufacturer’s or importer’s declaration of product conformity to the EC Directive issued by the EU (European Union) and ensures free distribution within the EU area.
IWAKI has been promoting the switching of parts to those compliant with RoHS, and has been taking measures for the EC Directive one after another. Contact us for details on products compliant with RoHS and the EC Directive.

⚠ Caution for safety use:
Before use of pump, read instruction manual carefully to use the product correctly.

Actual pumps may differ from the photos.
Specifications and dimensions are subject to change without prior notice. For further details please contact us.

⚠ Legal attention related to export.

Our products and/or parts of products fall in the category of goods contained in control list of international regime for export control.
Please be reminded that export license could be required when products are exported due to export control regulations of countries.