



Pan World

Quality is our Priority

**SEALLESS MAGNETIC
DRIVEN PUMP**

PX-D / PX-D-N / PX-D-F series

Polypropylene

PvdF Natural

ETFE Teflon

Compact Magnetic Drive Pump with DC brushless motor



Proceed to next new generation of the most advanced magnetic driven pump by the latest technology

PX-D series : Glass fiber filled polypropylene.

PX-D-N series : PvdF natural + sic semi conductor application.

PX-D-F series : ETFE - Teflon & Ceramic or sic.

Hazard chemical application.



Sealless construction

Special shaft and Bearing support structure.
By employing ceramic bearings zero wear can be obtained.



Compact

1/2~1/3 compactness to compare conventional magnet pump with AC motor.



Safety

Bearing, Thrust pad, shaft are molded into plastic body to prevent wrong alignment during cavitation and erratic operation.



Maintenance free

There is usually no need for preventative maintenance.



Pipe connection

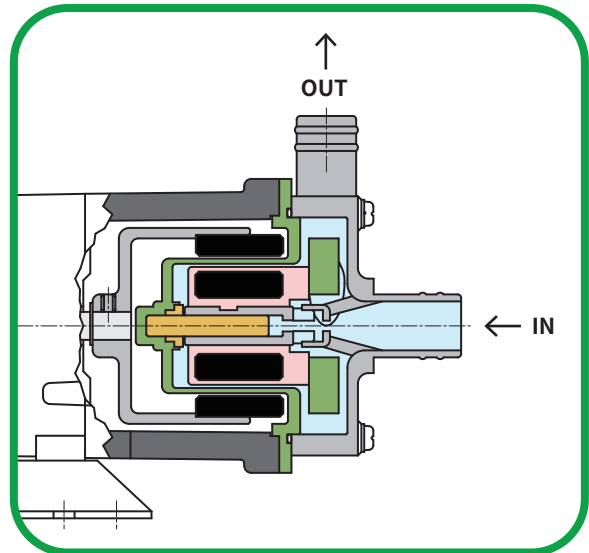
Hose, Flange, G thread are standard.
Union is optional.



Sealless and long life of Bearing

10,000 hours life.

By applying magnetic coupling the extension of motor shaft is eliminated.



Required power supply

DC 12V-24/28V depend on Model.

AC-DC converter with built in transformer.

AC 110V-DC 24/26V with JIS pin.

AC 230V-DC 24/26V with Euro pin.



High performance High efficiency motor

1.5~3 times T.H.D (total head) and flow to compare conventional magnet pump with AC motor.

5~7 times motor efficiency and low consumption.

Therefore heat radiation is extremely reduced.



Operating range

PX-D Series : 0~60°C

PX-D-N series : 0~80°C

PX-D-F series : 0~80°C

Environment condition to be installed 0~40°C
~85%

Slurry can not be handled.

PX-D / PX-D-N / PX-D-F Series

Magnetic Drive Pump with computer-controlled DC brushless motor, available in fixed-speed and variable-speed options.

- + Features a DC brushless motor with variable speed control.
- + Available in PP, PVDF, and ETFE materials.
- + Accepts 1-10V input for constant flow and pressure control.
- + More efficient than AC motors and space-saving.



Model	PX-D	PX-D-N	PX-D-F
Materials in Contact	: Glass-filled Polypropylene	PvdF Natural	Carbon Fiber-filled ETFE
Max Flow	: 30 L/min	30 L/min	30 L/min
Max Head	: 5 m	5 m	5 m
Liquid Temp.	: 0°C~60°C	0°C~80°C	0°C~80°C
Motor Power	: DC12V, DC24V	DC12V, DC24V	DC12V, DC24V

■ Type indication

N H - 1 0 P X - D - N - H - A 2 3 0

① ② ③ ④

① Model name

② Series

PX-D Series
PX-D-N Series
PX-D-F Series

③ Connection

H : Hose taill Connection
T : G thread Connection
U : Union Connection

④ Required power supply

With Letter : Without AC-DC converter, without transformer
With A230E : With AC 230V - DC 24/28V Output transformer and Converter, with Euro pin
A230J : With AC 230V - DC 24/28V - 20W Output transformer and Converter, with JIS pin
A110E : With AC 100 - 120V - DC 24/26V - 40W Output transformer and Converter, with Euro pin
A110J : With AC 100 - 120V - DC 24/26V - 40W Output transformer and Converter, with JIS pin

■ Specification table

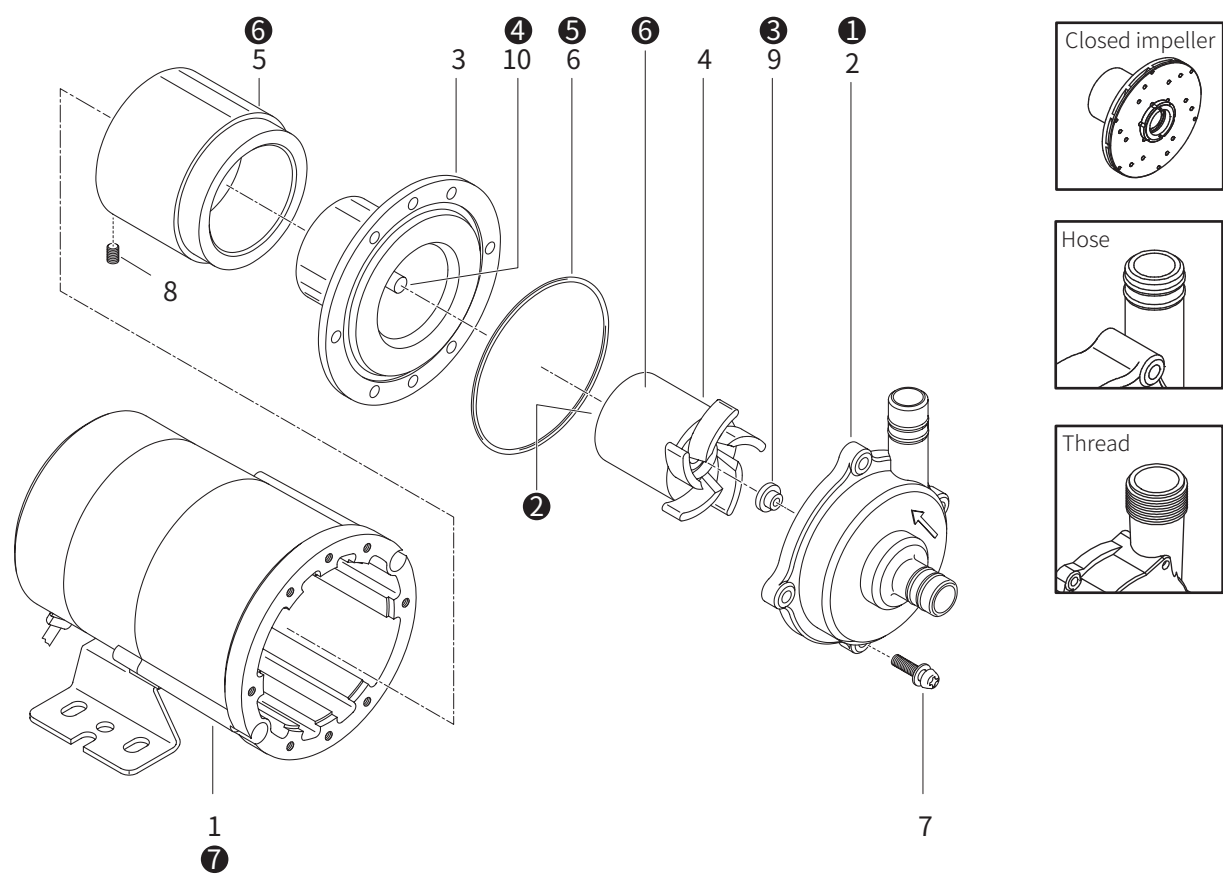
Model	Connection method			Performance (m-L/min)					DC
Wetted end	Hose (mm)	Thread (")	Union (A)	Max total head-max discharge					Brushless motor Out x Input, Watts
Polypropylene / PVDF / ETFE	In x Outlet	In x Outlet	In x Outlet	2,000r.p.m	2,500r.p.m	3,000r.p.m	3,500r.p.m	4,000r.p.m	
NH-5PX-D / PX-D-N	14 X 14	G1/2 x 1/2	----	----	0.9 - 5.5	1.2 - 7.0	1.5 - 8.0	2.1 - 9.5	10 x 17
NH-10PX-D / PX-D-N	14 X 14	G1/2 x 1/2	----	----	1.3 - 6.8	1.7 - 8.2	2.1 - 9.2	2.9 - 11.0	10 x 17
NH-5PX-Z-D / PX-Z-D-N	14 X 14	G1/2 x 1/2	----	----	1.6 - 6.1	2.2 - 7.3	2.8 - 8.5	3.7 - 9.7	10 x 17
NH-30PX-D / PX-D-N / PX-D-F	14 X 14	G3/4 x 3/4	16 X 16	1.1 - 9.0	1.6 - 11.0	2.1 - 13.0	2.9 - 16.0	3.8 - 18.0	15 x 20
NH-40PX-D / PX-D-N / PX-D-F	18 x 18	G3/4 x 3/4	16 X 16	1.7 - 17.0	2.3 - 22.0	3.1 - 26.0	3.9 - 30.0	----	18 x 25
NH-50PX-Z-D / PX-Z-D-N / PX-Z-D-F	18 x 18	G3/4 x 3/4	16 X 16	2.6 - 12.0	4.2 - 13.0	5.0 - 13.5	-----	-----	18 x 25



Z: Closed impeller

Note: NPT thread is available.

■ Parts list

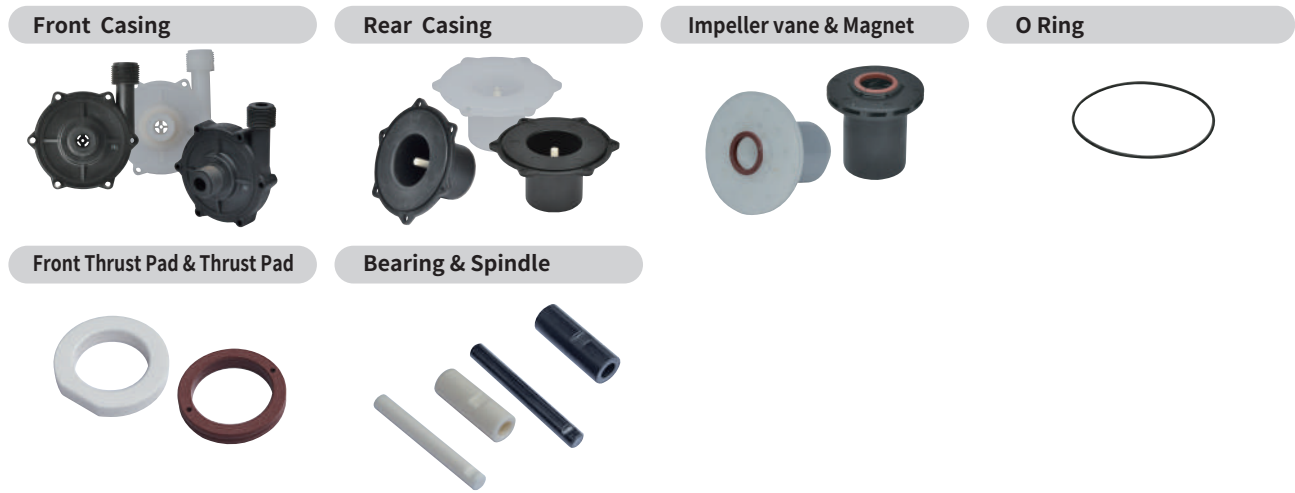


Position	Description
1	Motor
2	Front casing
3	Rear casing
4	Impeller vane
5	Outer drive ring

Position	Description
6	O. Ring
7	Screw, cross recess head w/t plain washer (x4)
8	Set screw (x2)
9	Front thrust pad
10	Spindle

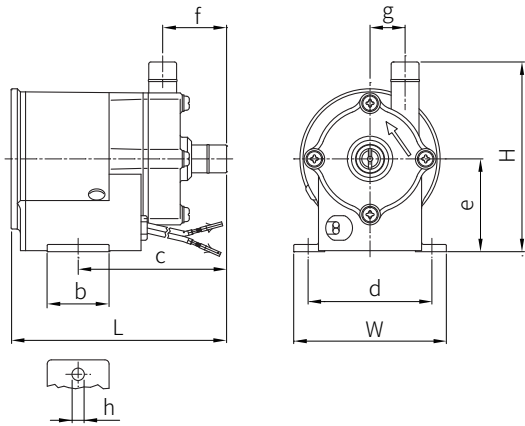
■ Material of the structure

Part name	5PX-D 10PX-D	5PX-D-N 10PX-D-N	5PX-Z-D	5PX-Z-D-N	30PX-D 40PX-D 50PX-Z-D	30PX-D-N 40PX-D-N 50PX-Z-D-N	30PX-D-F 40PX-D-F 50PX-Z-D-F
① Casing	PPG	PvdF	PPG	PvdF	PPG	PvdF	ETFE
② Bearing	--	--	--	--	Ceramic	Ceramic	Ceramic
③ Thrust pad	Rulon	Rulon	Ceramic	Ceramic	Rulon / PPS	Rulon / Teflon	Rulon / ETFE
④ Spindle	Ceramic						
⑤ O Ring	FKM						
⑥ Magnet	Ferrite						
⑦ Housing	Al cast						

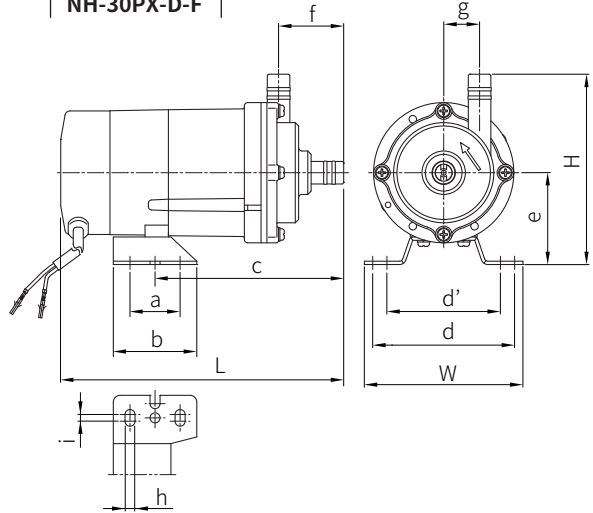


■ Installation dimension

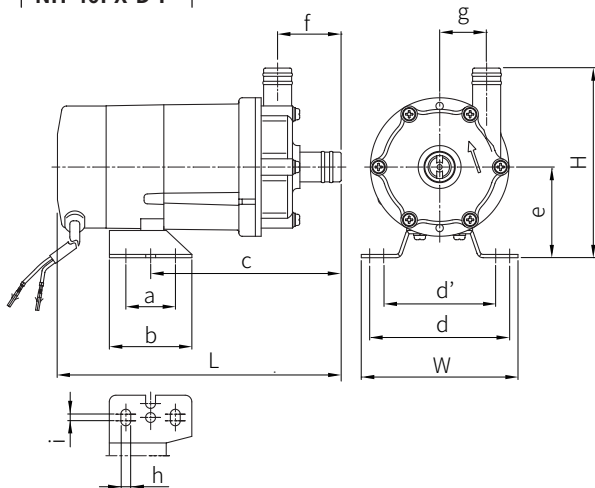
NH-5PX-D NH-10PX-D NH-5PX-Z-D
NH-5PX-D-N NH-10PX-D-N NH-5PX-Z-D-N



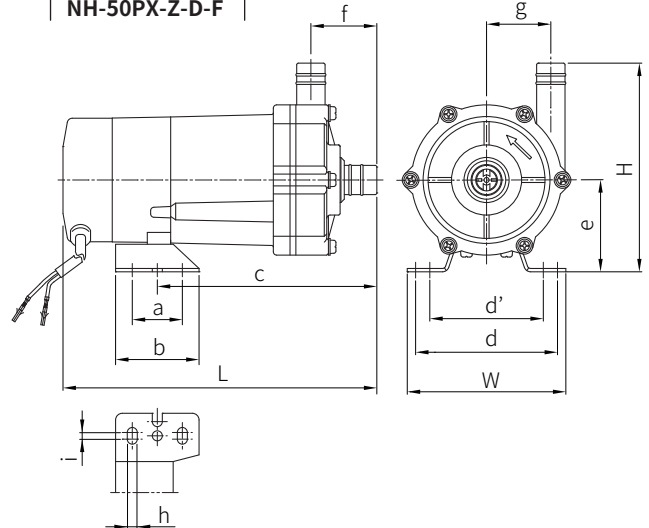
NH-30PX-D
NH-30PX-D-N
NH-30PX-D-F



NH-40PX-D
NH-40PX-D-N
NH-40PX-D-F



NH-50PX-Z-D
NH-50PX-Z-D-N
NH-50PX-Z-D-F



Model	W	H	L	a	b	c	d	d'	e	f	g	h	i
NH-5PX-D NH-5PX-D-N	74	92	104.5	-	30	72	60	-	45	31	17	6	--
NH-10PX-D NH-10PX-D-N	74	92	104.5	-	30	72	60	-	45	31	17	6	--
NH-5PX-Z-D NH-5PX-Z-D-N	74	92	104.5	-	30	72	60	-	45	31	17	6	--
NH-30PX-D NH-30PX-D-N NH-30PX-D-F	95	115	169.5	30	50	113	85	68	55	39	21.5	6	4
NH-40PX-D NH-40PX-D-N NH-40PX-D-F	95	115	172	30	50	115.5	85	68	55	38.5	28.5	6	4
NH-50PX-Z-D NH-50PX-Z-D-N NH-50PX-Z-D-F	95	125	188	30	50	131.5	85	68	55	39.5	38.5	6	4

Note :
Over all size & construction may be changed without notice.

Unit : mm

■ Connection method

NH-5PX-D NH-10PX-D NH-5PX-Z-D
NH-5PX-D-N NH-10PX-D-N NH-5PX-Z-D-N



Hose



Thread

NH-30PX-D
NH-30PX-D-N
NH-30PX-D-F



Hose



Thread

NH-40PX-D
NH-40PX-D-N
NH-40PX-D-F



Hose



Thread

NH-50PX-Z-D
NH-50PX-Z-D-N
NH-50PX-Z-D-F



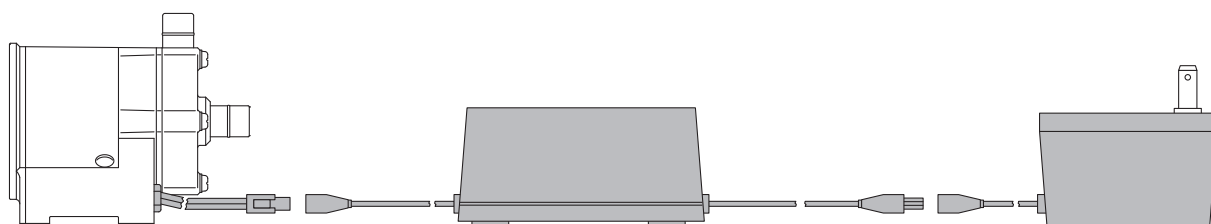
Hose



Thread

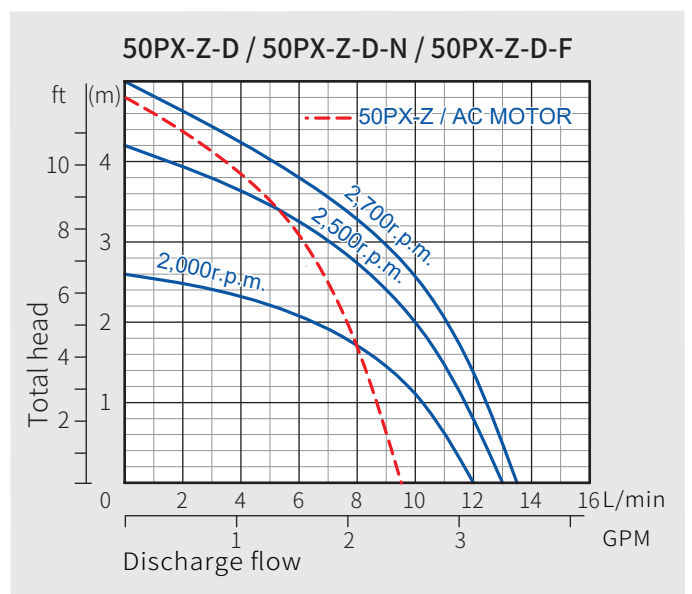
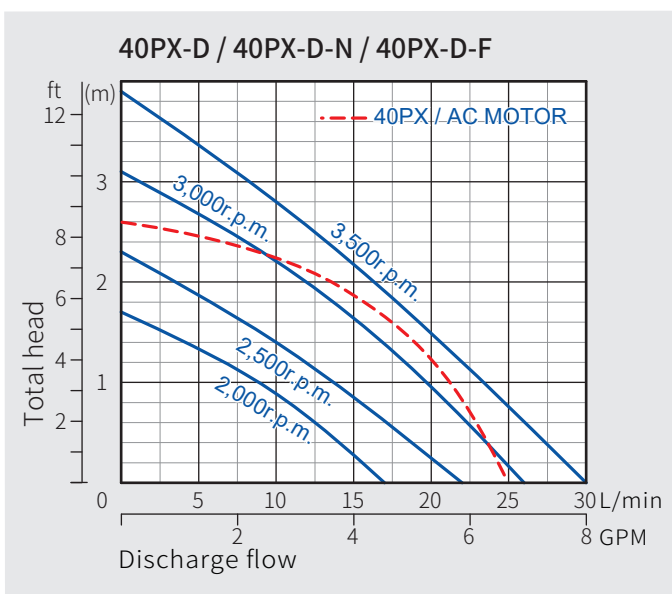
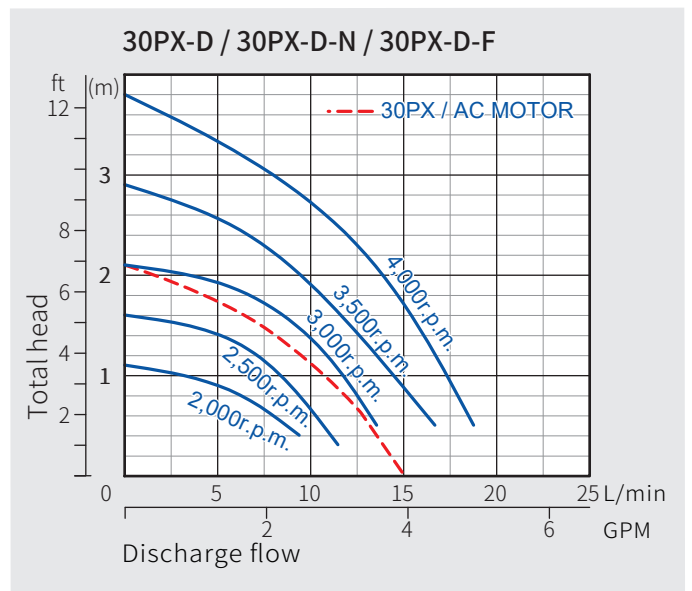
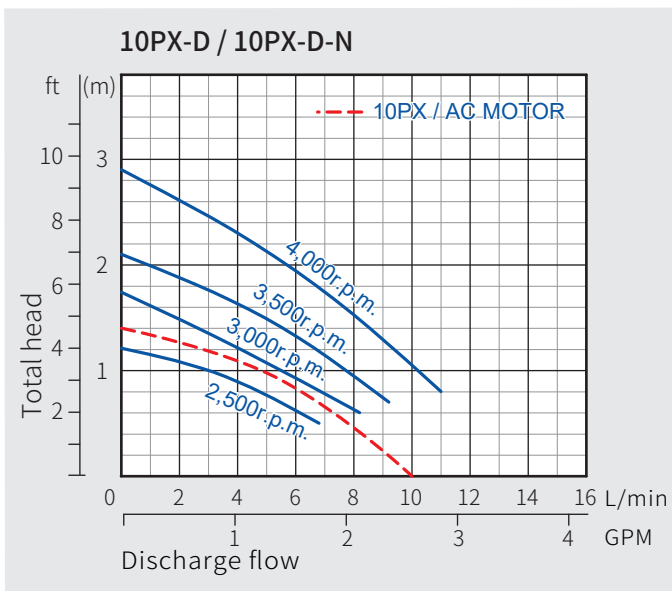
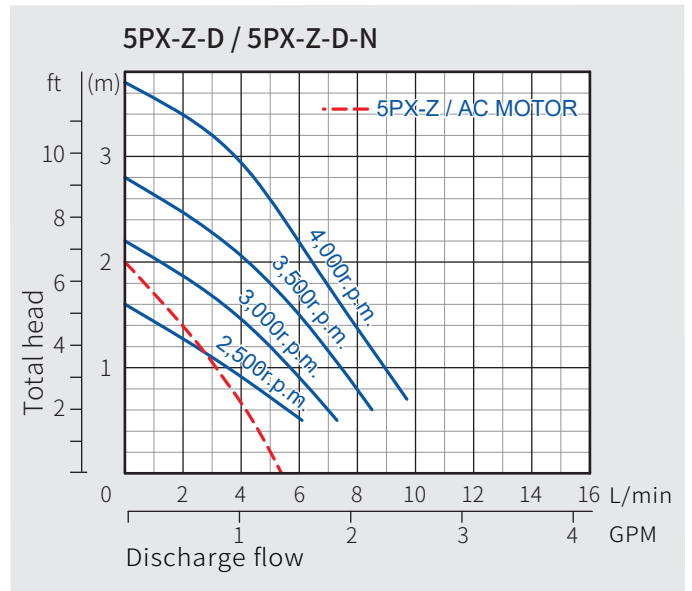
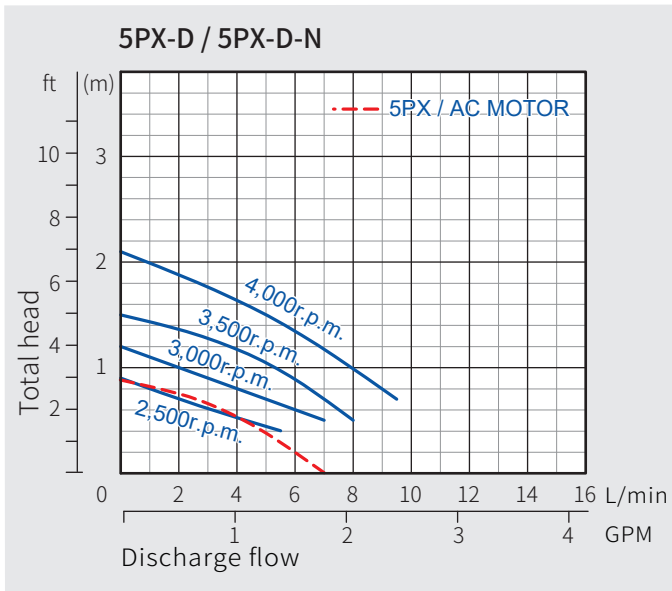
■ AC - DC converter

ex. : For NH-PX-D-AD2



Model	Output	Input Voltage	Suitable Pump Model
NH-PX-D-AD1	26V, 0.75A	100 - 120V	5PX-D, 5PX-Z-D, 10PX-D
NH-PX-D-AD2	26V, 0.75A	220 - 240V	5PX-D, 5PX-Z-D, 10PX-D
NH-PX-D-AD3	26V, 2A	100 - 120V	30PX-D, 40PX-D, 50PX-Z-D
NH-PX-D-AD4	26V, 2A	220 - 240V	30PX-D, 40PX-D, 50PX-Z-D

■ Pump performance curve



Note: Broken line indicates pump performance of PX Series with AC motor.

■ Chemical resistance table

Series	PX-D	PX-D-N / PX-D-F
Filtration	*	
P.C.B. machine		
Etching machine	*	*
Chemical, Electric plating	*	*
Scrubber		
Waste water treatment		
Chemical transfer	*	*
Chemical refine process		
Pharmaceutical	*	*
Shadow mask machine		
C.R.T.producing		
Metal degreasing		
Glass etching		
Paper industry		

Series	PX-D	PX-D-N / PX-D-F
Laboratory application	*	*
Vending machine	*	
Food process		
Deionizing equipment	*	*
Semi-conductor		*
Ice machine	*	
Juice server	*	
Power station		
Salt industry		
Battery industry	*	*
Waste chemical transfer	*	*
Chemical controller	*	
MC/CNC machinery	*	



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Specifications are subjected to changes without prior notice.

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