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- High Quality
- Cost-Effective
- Timely Delivery
- Advanced Design
- Super Reliability
- Excellent Performance

Pan World

Leader in Leak-free Technology

PX Series (Glass Fiber-reinforced PP)

Compact Magnetic Drive Pump for OEM Applications

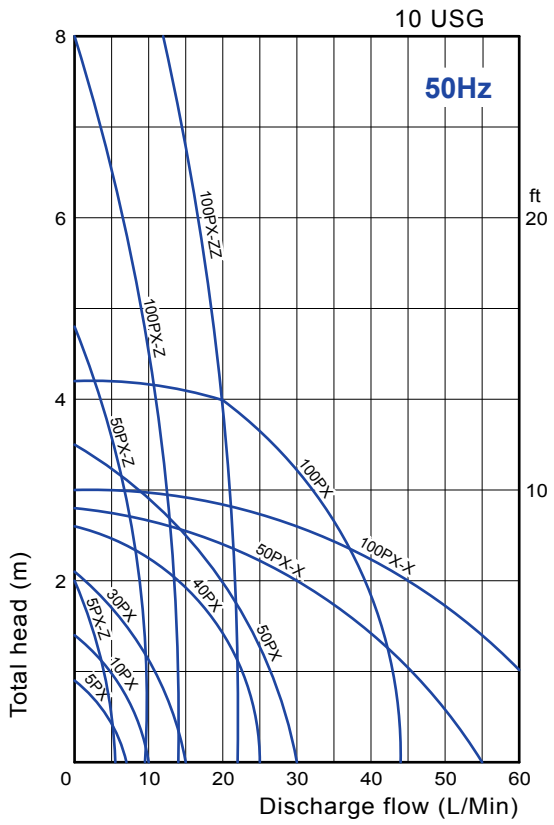
- OEM and general applications.
- 15 models with flow rates up to 80 L/Min.
- Offering ceramic bearing & ceramic spindle as standard wearing parts to achieve long life expectancy.
- Standard connections available in hose, threads or union type.

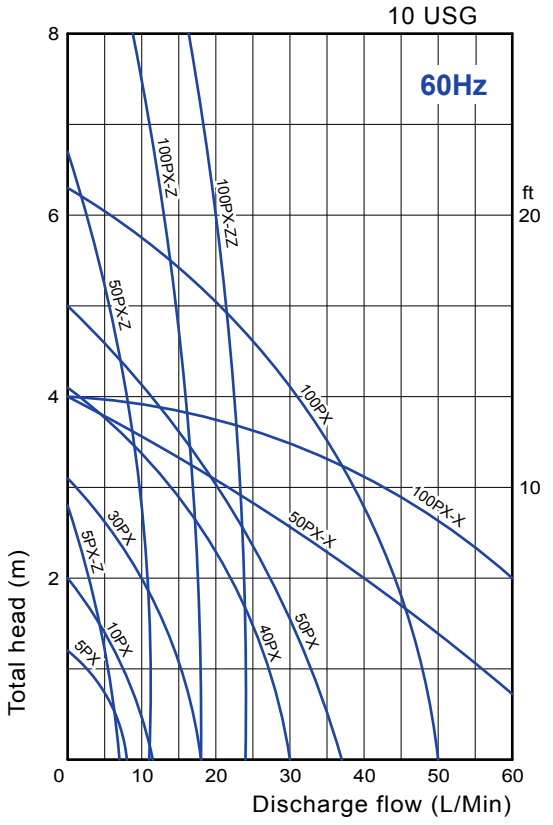
Specification table

Model	Connection method			Performance (m-L/Min) , 50/60Hz		Motor
	Hose(mm)	Thread(")	Union(A)	Max total head-max discharge	Specified head-specified discharge	Output × Input(W)
	In × Outlet	In × Outlet	In × Outlet			
NH-1PX	14×14	G1/2×1/2	-----	0.9 - 7.0 / 1.2 - 8.0	0.7 - 2.6 / 0.8 - 4.5	2.5 - 17 / 18
NH-1PX-Z	14×14	G1/2×1/2	-----	2.0 - 5.5 / 2.8 - 7.0	1.5 - 3.0 / 1.5 - 4.3	5 - 20 / 21
NH-3PX	14×14	G1/2×1/2	-----	1.4 - 10.0 / 2.0 - 11.5	1.0 - 4.8 / 1.0 - 7.5	5 - 19 / 20
NH-5PX	14×14	G1/2×1/2	-----	0.9 - 7.0 / 1.2 - 8.0	0.7 - 2.6 / 0.8 - 4.5	2.5 - 17 / 18
NH-5PX-Z	14×14	G1/2×1/2	-----	2.0 - 5.5 / 2.8 - 7.0	1.5 - 3.0 / 1.5 - 4.3	5 - 20 / 21
NH-10PX	14×14	G1/2×1/2	-----	1.4 - 10.0 / 2.0 - 11.5	1.0 - 4.8 / 1.0 - 7.5	5 - 19 / 20
NH-30PX	14×14	G3/4×3/4	16×16	2.1 - 15.0 / 3.1 - 18.0	1.5 - 7.0 / 1.5 - 13.0	10 - 29 / 30
NH-40PX	18×18	G3/4×3/4	16×16	2.6 - 25.0 / 4.1 - 30.0	2.0 - 14.0 / 2.0 - 22.0	20 - 40 / 45
NH-50PX-Z	18×18	G3/4×3/4	16×16	4.8 - 9.5 / 6.7 - 11.0	4.0 - 3.5 / 4.0 - 8.0	20 - 40 / 55
NH-50PX	20×20	G3/4×3/4	16×16	3.5 - 30.0 / 5.0 - 37.0	2.5 - 15.0 / 2.5 - 24.0	45 - 65 / 90
NH-50PX-X	26×26	G1×1	20×20	2.8 - 55.0 / 4.0 - 70.0	2.0 - 30.0 / 2.0 - 40.0	45 - 65 / 80
NH-100PX-Z	18×18	G3/4×3/4	16×16	8.0 - 14.0 / 11.0 - 18.0	5.0 - 9.0 / 6.0 - 13.0	45 - 80 / 95
NH-100PX	20×20	G3/4×3/4	16×16	4.2 - 43.0 / 6.3 - 50.0	4.0 - 20.0 / 4.0 - 31.0	65 - 90 / 120
NH-100PX-X	26×26	G1×1	20×20	3.0 - 70.0 / 4.0 - 80.0	2.0 - 45.0 / 2.0 - 60.0	65 - 120 / 165
NH-100PX-ZZ	20×20	G3/4×3/4	16×16	11.5 - 22.0 / 13.5 - 24.0	9.5 - 10.0 / 6.0 - 20.0	65 - 140 / 200

Note:NPT thread is available.

Pump performance curve





PX-N Series (Natural)

Compact Magnetic Drive Pump for Semiconductor Application

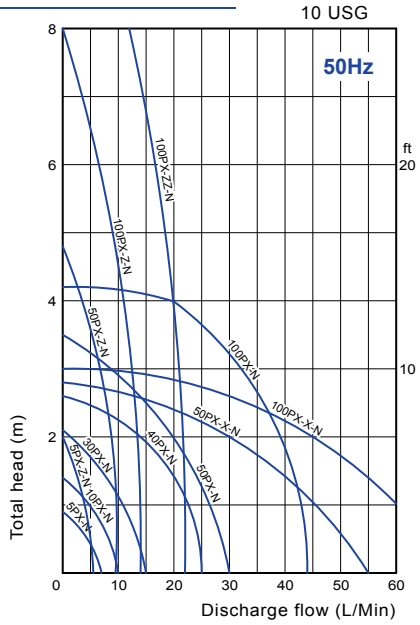
- With Pvdf natural wetted-end and ceramic or Sic bearing & spindle, these pumps are well made for semiconductor application.
- 15 models with flow rates up to 80 L/Min.
- Standard connections available in hose, threads or union type.

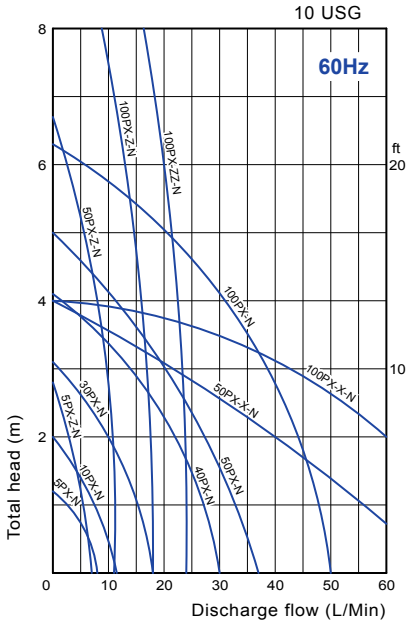
PX-F Series (Carbon Fiber-reinforced ETFE)

Compact Magnetic Drive Pump for hazardous chemical transfer

- ETFE wetted-end material for highly hazardous chemical transfer.
- 9 models with flow rates up to 80 L/Min.
- Standard connections available in hose, threads or union type.

Pump performance curve





Specification table

Model	Connection method			Performance (m-L/Min) , 50/60Hz		Motor
	Hose(mm)	Thread(")	Union(A)	Max total head-max discharge	Specified head-specified discharge	Output × Input(W)
	In × Outlet	In × Outlet	In × Outlet			
NH-1PX-N	14×14	G1/2×1/2	-----	0.9 - 7.0 / 1.2 - 8.0	0.7 - 2.6 / 0.8 - 4.5	2.5 - 17 / 18
NH-1PX-Z-N	14×14	G1/2×1/2	-----	2.0 - 5.5 / 2.8 - 7.0	1.5 - 3.0 / 1.5 - 4.3	5 - 20 / 21
NH-3PX-N	14×14	G1/2×1/2	-----	1.4 - 10.0 / 2.0 - 11.5	1.0 - 4.8 / 1.0 - 7.5	5 - 19 / 20
NH-5PX-N	14×14	G1/2×1/2	-----	0.9 - 7.0 / 1.2 - 8.0	0.7 - 2.6 / 0.8 - 4.5	2.5 - 17 / 18
NH-5PX-Z-N	14×14	G1/2×1/2	-----	2.0 - 5.5 / 2.8 - 7.0	1.5 - 3.0 / 1.5 - 4.3	5 - 20 / 21
NH-10PX-N	14×14	G1/2×1/2	-----	1.4 - 10.0 / 2.0 - 11.5	1.0 - 4.8 / 1.0 - 7.5	5 - 19 / 20
NH-30PX-N/NH-30PX-F	14×14	G3/4×3/4	16×16	2.1 - 15.0 / 3.1 - 18.0	1.5 - 7.0 / 1.5 - 13.0	10 - 29 / 30
NH-40PX-N/NH-40PX-F	18×18	G3/4×3/4	16×16	2.6 - 25.0 / 4.1 - 30.0	2.0 - 14.0 / 2.0 - 22.0	20 - 40 / 45
NH-50PX-Z-N/NH-50PX-Z-F	18×18	G3/4×3/4	16×16	4.8 - 9.5 / 6.7 - 11.0	4.0 - 3.5 / 4.0 - 8.0	20 - 40 / 55
NH-50PX-N/NH-50PX-F	20×20	G3/4×3/4	16×16	3.5 - 30.0 / 5.0 - 37.0	2.5 - 15.0 / 2.5 - 24.0	45 - 65 / 90
NH-50PX-X-N/NH-50PX-X-F	26×26	G1×1	20×20	2.8 - 55.0 / 4.0 - 70.0	2.0 - 30.0 / 2.0 - 40.0	45 - 65 / 80
NH-100PX-Z-N/NH-100PX-Z-F	18×18	G3/4×3/4	16×16	8.0 - 14.0 / 11.0 - 18.0	5.0 - 9.0 / 6.0 - 13.0	45 - 80 / 95
NH-100PX-N/NH-100PX-F	20×20	G3/4×3/4	16×16	4.2 - 43.0 / 6.3 - 50.0	4.0 - 20.0 / 4.0 - 31.0	65 - 90 / 120
NH-100PX-X-N/NH-100PX-X-F	26×26	G1×1	20×20	3.0 - 70.0 / 4.0 - 80.0	2.0 - 45.0 / 2.0 - 60.0	65 - 120 / 165
NH-100PX-ZZ-N/NH-100PX-ZZ-F	20×20	G3/4×3/4	16×16	11.5 - 22.0 / 13.5 - 24.0	9.5 - 10.0 / 6.0 - 20.0	65 - 140 / 200

Note:NPT thread is available.

PX-D Series (Glass-filled Polypropylene)
PX-D-N Series (Pvdf Natural)
PX-D-F Series (Carbon Fiber-filled ETFE)

Magnetic Drive Pump with Computer-controlled DC brush-less motor, fixed-speed & variable-speed

- Magnetic Drive Pump equipped with DC brush-less motor, printed circuit board & variable speed controller.
- Wetted-end materials in PP,Pvdf or ETFE to meet different requirements.
- Can accept external 1-10V for maintaining constant flow and pressure.
- Motor efficiency doubles that of the AC type.
- Space saving.

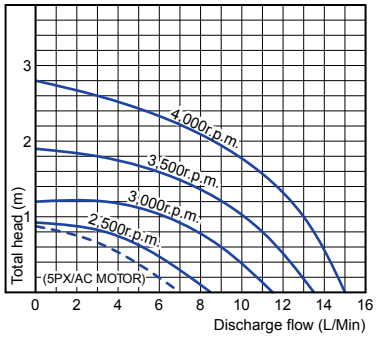
Specification table

Model	Connection method			Performance (m-L/Min)				
Wetted end	Hose(mm)	Thread(")	Union(A)	Max total head-max discharge				
Polypropylene/Pvdf/ETFE	In × Outlet	In × Outlet	In × Outlet	2,000r.p.m	2,500r.p.m	3,000r.p.m	3,500r.p.m	4,000r.p.m
NH-5PX-D, NH-5PX-D-N	14×14	G1/2×1/2	-----	-----	0.9 - 8.5	1.2 - 11.5	1.9 - 13.5	2.8 - 16.0
NH-10PX-D, NH-10PX-D-N	14×14	G1/2×1/2	-----	-----	1.2 - 10.0	1.6 - 12.0	2.5 - 13.0	-----
NH-5PX-Z-D, NH-5PX-Z-D-N	14×14	G1/2×1/2	-----	-----	1.4 - 8.0	2.2 - 10.0	3.0 - 12.0	-----
NH-30PX-D/NH-30PX-D-N NH-30PX-D-F	14×14	G3/4×3/4	16×16	1.2 - 15.0	1.6 - 16.0	2.6 - 17.0	3.6 - 22.0	-----
NH-40PX-D/NH-40PX-D-N NH-40PX-D-F	18×18	G3/4×3/4	16×16	1.7 - 17.0	2.3 - 22.0	3.1 - 26.0	3.9 - 30.0	-----
NH-50PX-Z-D/NH-50PX-Z-D-N NH-50PX-Z-D-F	18×18	G3/4×3/4	16×16	2.6 - 12.0	4.2 - 13.0	5.0 - 13.5	-----	-----

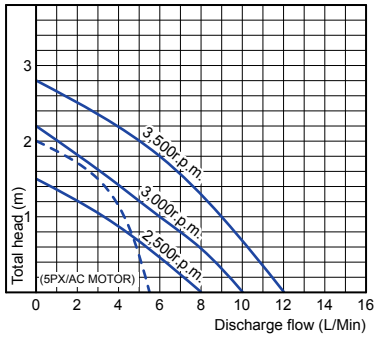
Note:NPT thread is available.

Pump performance curve

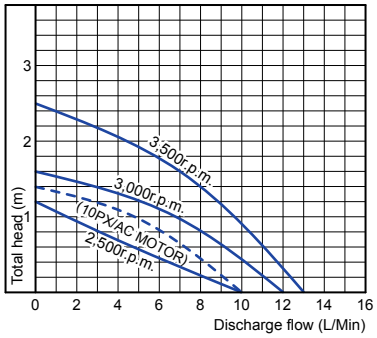
5PX-D/5PX-D-N



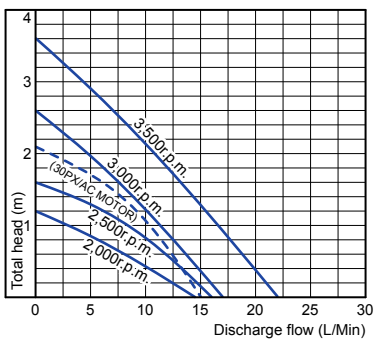
5PX-Z-D/5PX-Z-D-N



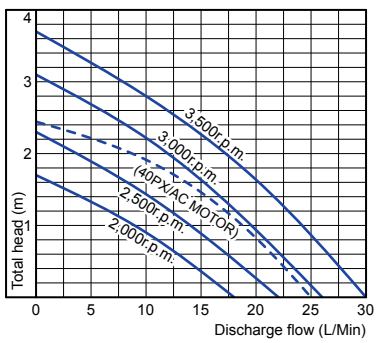
10PX-D/10PX-D-N



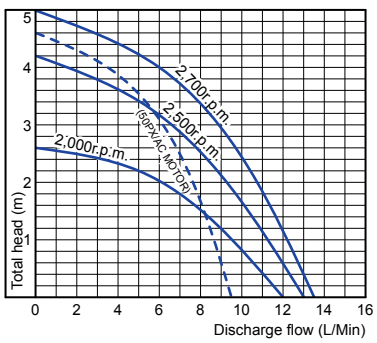
30PX-D/30PX-D-N/30PX-D-F



40PX-D/40PX-D-N/40PX-D-F



50PX-Z-D/50PX-Z-D-N/50PX-Z-D-F



Note:Broken Line shows pump performance of PX Series with AC motor.

PI-Z-D Series

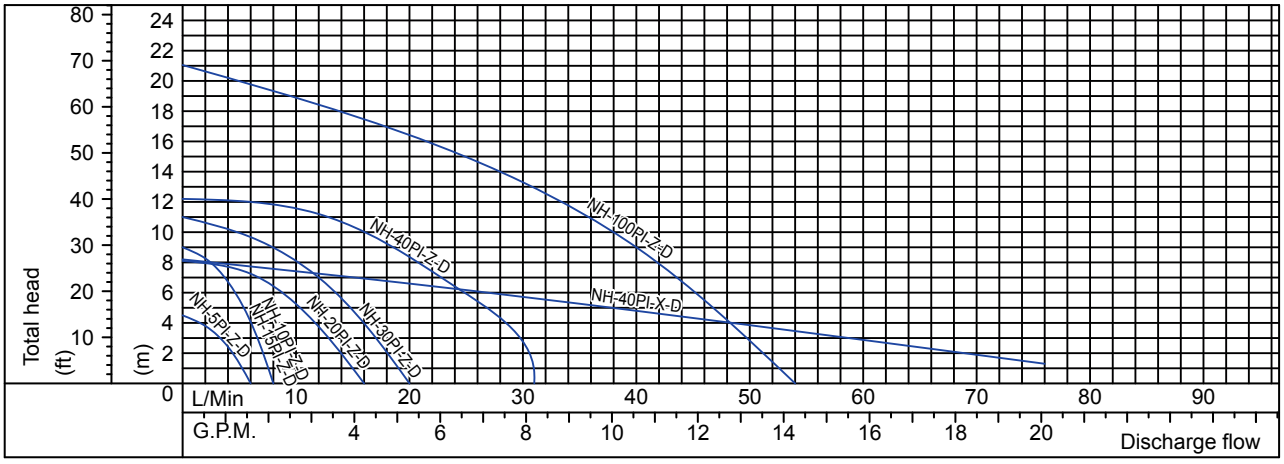
Magnetic Drive Pump with computer-controlled DC brush-less motor, fixed-speed & variable-speed

- Magnetic Drive Pump equipped with DC brush-less motor, printed circuit board & variable speed controller.
- Can accept external 1-10V for maintaining constant flow and pressure.
- Motor efficiency doubles that of the AC type.
- Space saving.

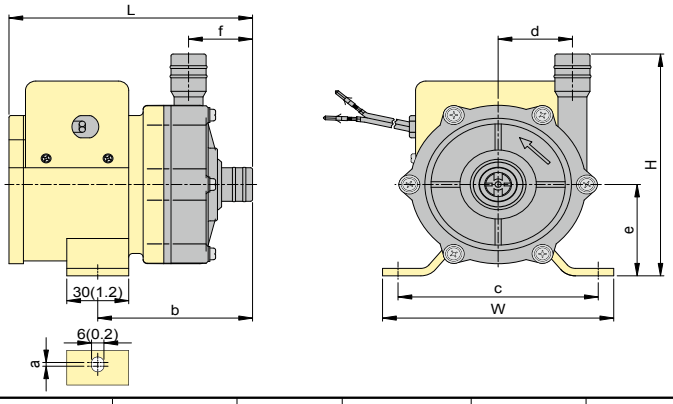
Specification table

Model	Connection method		Max flow L/Min(GPM)	Max head m(ft)	Motor		
	Hose(mm)	Thread(")			Power(V)	Output × Input(w)	Speed(r.p.m)
	In × Outlet	In × Outlet					
NH-5PI-Z-D	14 x 8	--	6 (1.6)	4.5 (14.8)	DC24V,DC12V	8 × 13	3,700
NH-10PI-Z-D	14 x 8	--	8 (2.2)	9 (29)	DC24V	18 × 30	5,500
NH-15PI-Z-D	18 x 8	G3/4 x G3/4	8 (2.2)	9 (29)	DC24V	20 × 45	3,200
NH-20PI-Z-D	18 x 18	G3/4 x G3/4	16 (4.2)	8.2 (27)	DC24V	30 × 55	3,000
NH-30PI-Z-D	18 x 18	G3/4 x G3/4	20 (5.4)	11 (36)	DC24V	45 × 65	3,300
NH-40PI-Z-D	20 x 20	G3/4 x G3/4	31 (8.2)	12.4 (40.7)	DC24V,DC12V	72 × 85	3,500
NH-40PI-X-D	26 x 26	G1 x G1	76 (20.1)	8.2 (26.9)	DC24V	72 × 85	3,500
NH-100PI-Z-D	20 x 16	--	54 (14.3)	21.1 (69.2)	DC24V	220 × 331	3,500

Pump performance curve



Installation dimension



Dimensions in mm(inch)

Model	W	H	L	a	b	c	d	e	f
NH-5PI-Z-D	74 (2.91)	90 (3.54)	100 (3.94)	0 (0)	67.5 (2.66)	60 (2.36)	21 (0.83)	45 (1.77)	26.5 (1.04)
NH-10PI-Z-D	74 (2.91)	90 (3.54)	100 (3.94)	0 (0)	67.5 (2.66)	60 (2.36)	21 (0.83)	45 (1.77)	26.5 (1.04)
NH-15PI-Z-D	112 (4.41)	119 (4.69)	118 (4.65)	2 (0.08)	75 (2.95)	97 (3.82)	36 (1.42)	49 (1.93)	31 (1.22)
NH-20PI-Z-D	112 (4.41)	119 (4.69)	118 (4.65)	2 (0.08)	75 (2.95)	97 (3.82)	36 (1.42)	49 (1.93)	31 (1.22)
NH-30PI-Z-D	112 (4.41)	119 (4.69)	123 (4.84)	2 (0.08)	75 (2.95)	97 (3.82)	36 (1.42)	49 (1.93)	31 (1.22)
NH-40PI-Z-D	120 (4.72)	150 (5.91)	163.5 (6.44)	2 (0.08)	118.5 (4.67)	100 (3.94)	44.5 (1.75)	60 (2.36)	38.5 (1.52)
NH-40PI-X-D	120 (4.72)	140.5 (5.53)	226 (8.90)	2 (0.08)	169.5 (6.67)	100 (3.94)	30 (1.18)	60 (2.36)	55 (2.17)
NH-100PI-Z-D	90 (3.54)	152 (5.98)	242.2 (9.54)	4 (0.16)	--	73 (2.87)	52.3 (2.06)	62 (2.44)	41 (1.61)

PS Series (PPG)

General Purpose Magnetic Drive Pumps

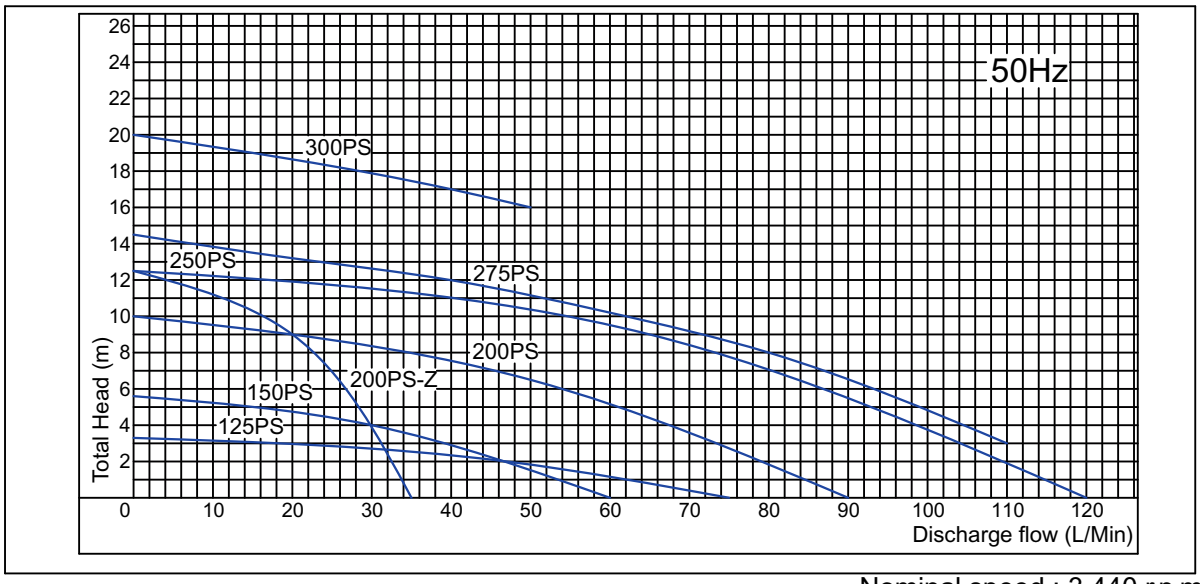
- OEM & general applications.
- 13 models with flow rates up to 120 L/Min.
- Available in hose, threaded or flange connections.
- Cost saving PP wetted-end material.

Specification table

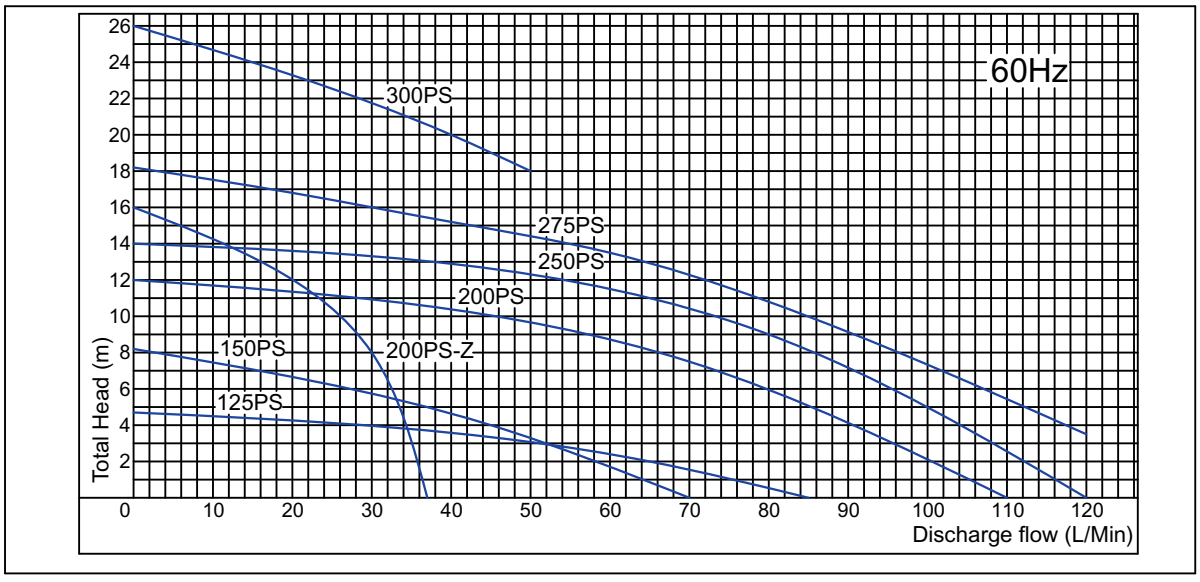
Model	Connection method				Performance (m-L/Min) , 50/60Hz		Motor
	Hose(mm)	Thread(")	Union(A)	Flange(A)	Max total head-	Specified head-	Output ×
	In × Outlet	In × Outlet	In × Outlet	In × Outlet	max discharge	specified discharge	Input(W)
NH-125PS (N)	26X26	NPT1×1,G1X1	20×20	-----	3.3 - 75 / 4.7 - 85	2 - 47 / 2 - 65	65 - 90/130
NH-150PS	26X26	NPT1×1,G1X1	20×20	25×25	5.6 - 60 / 8.2 - 70	4 - 30 / 4 - 45	90 - 130/180
NH-150PS-3	26X26	NPT1×1,G1X1	20×20	25×25	5.6 - 60 / 8.2 - 70	4 - 30 / 4 - 45	90 - 130/180
NH-200PS-Z	26X26	NPT1×1,G1X1	20×20	25×25	12.5 - 35 / 16 - 37	9 - 20 / 11 - 30	180 - 290
NH-200PS	26X26	NPT1×1,G1X1	20×20	25×25	10 - 90 / 12 - 110	6.5 - 50 / 7.5 - 70	180 - 290
NH-200PS-3	26X26	NPT1×1,G1X1	20×20	25×25	10 - 90 / 12 - 110	6.5 - 50 / 7.5 - 70	180 - 290
NH-250PS	26X26	NPT1×1,G1X1	20×20	25×25	12.5 - 120 / 14 - 120	9 - 65 / 9 - 80	250 - 390
NH-250PS-3	26X26	NPT1×1,G1X1	20×20	25×25	12.5 - 120 / 14 - 120	9 - 65 / 9 - 80	250 - 390
NH-250PS-3E	26X26	NPT1×1,G1X1	20×20	25×25	13.5 - 120 / 14.5 - 120	9 - 50 / 9 - 50	JEM - 0.2kW
NH-275PS	26X26	NPT1×1,G1X1	20×20	25×25	14.5 - 110 / 18 - 120	10 - 60 / 13.5 - 60	250 - 390
NH-275PS-3	26X26	NPT1×1,G1X1	20×20	25×25	14.5 - 110 / 18 - 120	10 - 60 / 13.5 - 60	250 - 390
NH-300PS	26X20	NPT1×3/4,G1×3/4	20×16	-----	20 - 50 / 26 - 50	16 - 50 / 21 - 50	330 - 460
NH-300PS-3	26X20	NPT1×3/4,G1×3/4	20×16	-----	20 - 50 / 26 - 50	16 - 50 / 21 - 50	330 - 460

Pump performance curve

Nominal speed : 2,860 r.p.m



Nominal speed : 3,440 r.p.m



PS-F Series (ETFE)

Magnetic Drive Pumps For Hazardous Chemical Transfer

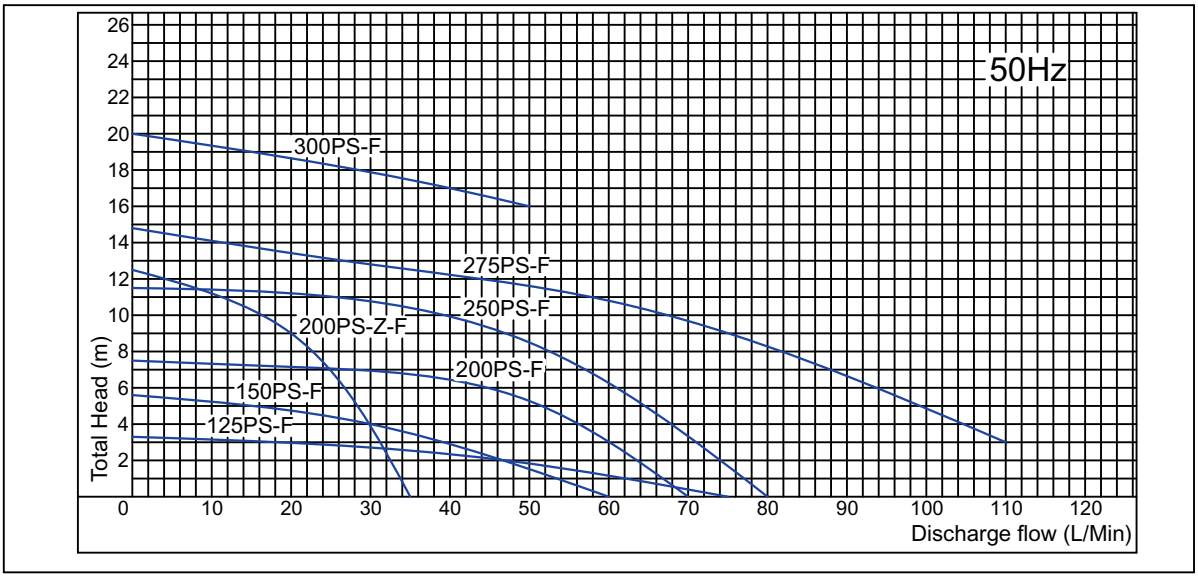
- ETFE wetted-end material for hazardous chemical transfer.
- 13 models with flow rates up to 120 L/Min.
- Available in hose, threaded or flange connections.

Specification table

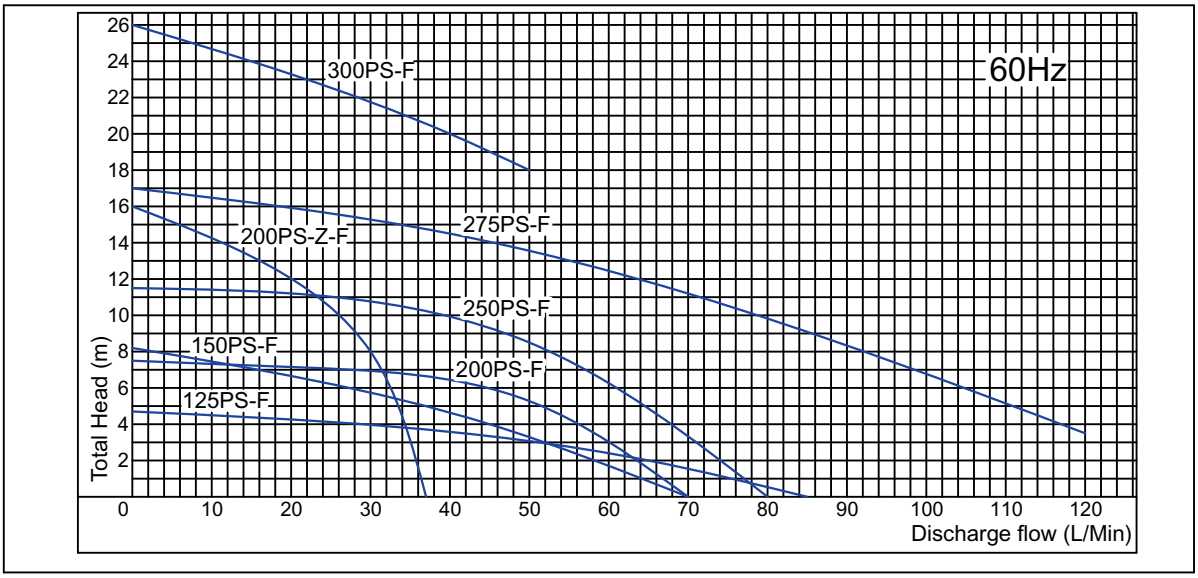
Model	Connection method				Performance (m-L/Min) , 50/60Hz		Motor
	Hose(mm)	Thread(")	Union(A)	Flange(A)	Max total head-	Specified head-	Output ×
	In × Outlet	In × Outlet	In × Outlet	In × Outlet	max discharge	specified discharge	Input(W)
NH-125PS-F	26X26	NPT1×1,G1X1	20×20	-----	3.3 - 75 / 4.7 - 85	2 - 47 / 2 - 65	65-90/130
NH-150PS-F	26X26	NPT1×1,G1X1	20×20	25×25	5.6 - 60 / 8.2 - 70	4 - 30 / 4 - 45	90-130/180
NH-150PS-F-3	26X26	NPT1×1,G1X1	20×20	25×25	5.6 - 60 / 8.2 - 70	4 - 30 / 4 - 45	90-130/180
NH-200PS-Z-F	26X26	NPT1×1,G1X1	20×20	25×25	12.5 - 35 / 16 - 37	9 - 20 / 11 - 30	180-290
NH-200PS-F	26X26	NPT1×1,G1X1	20×20	25×25	7.5 - 70 / 7.5 - 70	5.5 - 50 / 5.5 - 50	180-290
NH-200PS-F-3	26X26	NPT1×1,G1X1	20×20	25×25	7.5 - 70 / 7.5 - 70	5.5 - 50 / 5.5 - 50	180-290
NH-250PS-F	26X26	NPT1×1,G1X1	20×20	25×25	11.5 - 80 / 11.5 - 80	8.5 - 50 / 8.5 - 50	250-390
NH-250PS-F-3	26X26	NPT1×1,G1X1	20×20	25×25	11.5 - 80 / 11.5 - 80	8.5 - 50 / 8.5 - 50	250-390
NH-250PS-F-3E	26X26	NPT1×1,G1X1	20×20	25×25	13.5 - 120 / 14.5 - 120	9 - 50 / 9 - 50	JEM-0.2kW
NH-275PS-F	26X26	NPT1×1,G1X1	20×20	25×25	14.8 - 110 / 17 - 120	11 - 60 / 11 - 70	250-390
NH-275PS-F-3	26X26	NPT1×1,G1X1	20×20	25×25	14.8 - 110 / 17 - 120	11 - 60 / 11 - 70	250-390
NH-300PS-F	26X20	NPT1×3/4,G1×3/4	20×16	-----	20 - 50 / 26 - 50	16 - 50 / 21 - 50	330-460
NH-300PS-F-3	26X20	NPT1×3/4,G1×3/4	20×16	-----	20 - 50 / 26 - 50	16 - 50 / 21 - 50	330-460

Pump performance curve

Nominal speed : 2,860 r.p.m



Nominal speed : 3,440 r.p.m



PW Series (PPG)

General Purpose Magnetic Drive Pumps

- PPG wetted-end material.
- 16 models with flow rates up to 1,400 L/Min and discharge head of 44m.
- Able to handle many types of chemical and temperature up to 70°C.
- Adaptable to IEC Standard motor, 0.37 to 11 kW.
- Available in flange connections.

Type indication

N H - 4 0 0 P W - C V - L - 0 4 C

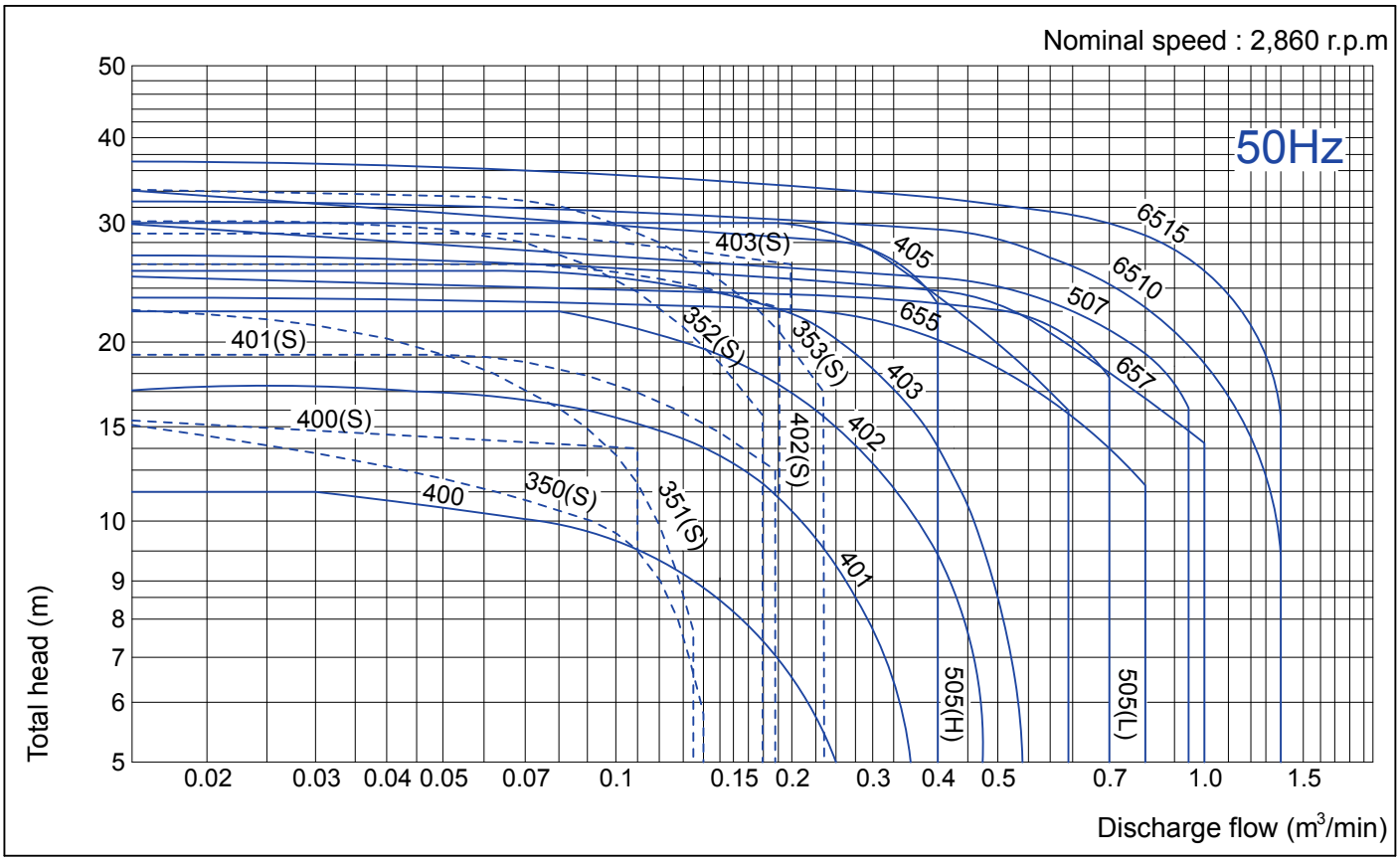
- **400** — Model
- **PW** — Series
- **C** — Bearing
  - C : Carbon
  - R : Rulon
  - A : Oxide Alumina ceramic
- **V** — O. Ring
  - V : FKM
  - N : NBR
  - E : EPDM
- **L** — Impeller size
  - S S.G=1.0
  - L S.G=1.1
  - M S.G=1.3
  - H S.G=1.5
- **04** — Motor output
  - 04 : 0.37 kW
  - 07 : 0.75 kW
  - 15 : 1.5 kW
  - 22 : 2.2 kW
  - 37 : 3.7 kW
  - 55 : 5.5 kW
  - 75 : 7.5 kW
  - 110 : 11 kW
- **C** — Required motor
  - Without Indoor use
  - With B Explosion proof
  - C Weather proof

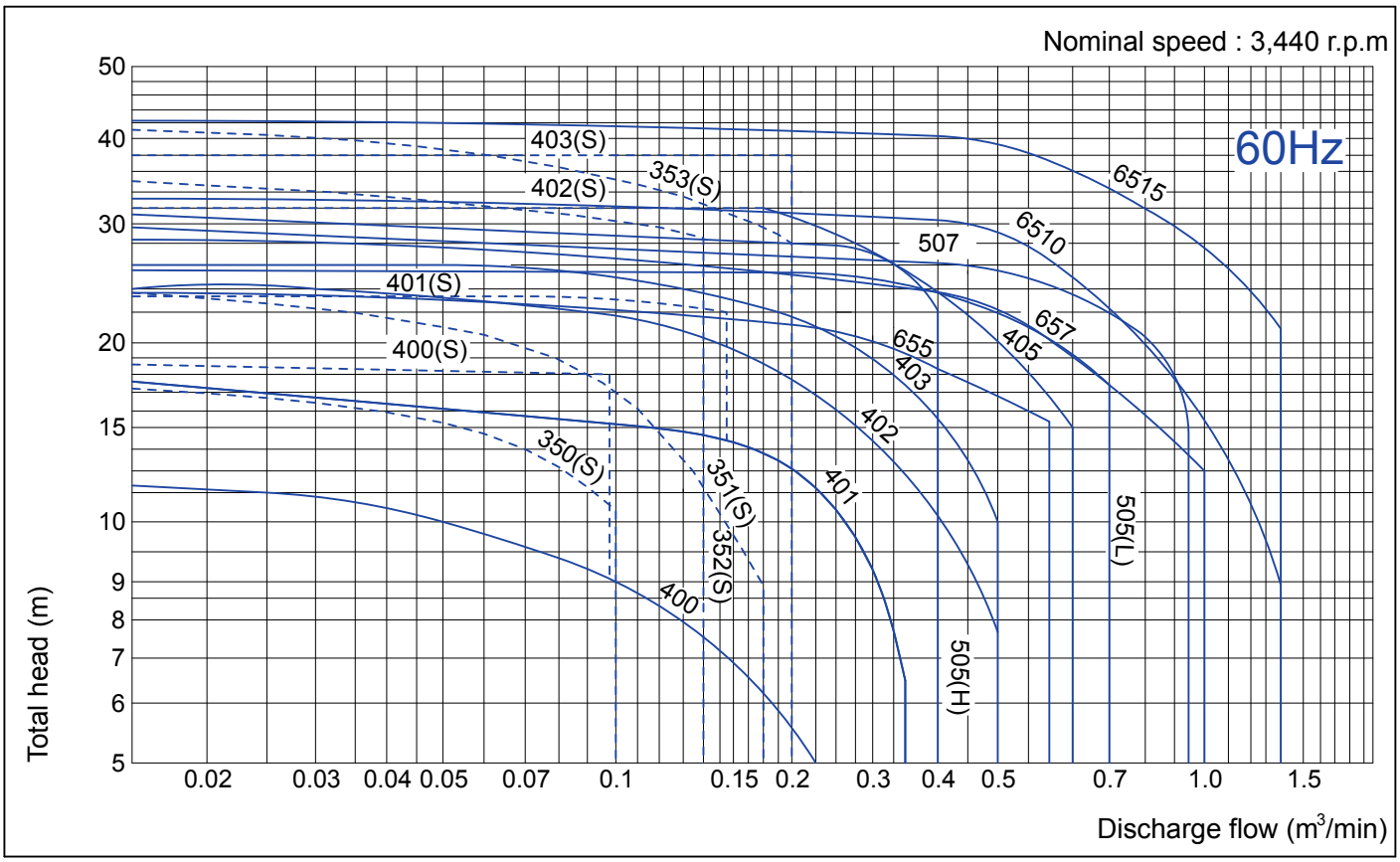
Specification table

Model	Flange size		Pump performance at specified point (m-L/Min)			Applicable Motor output (kW)	Net weight w/t motor (Kg)
	Inlet(mm)	Outlet(mm)	Specific Gravity	50Hz	60Hz		
NH-350PW	25	25	1.0	11.0 - 80	13.0 - 80	0.37	16
			1.3	12.0 - 60	14.0 - 40		
			1.5	11.0 - 40	11.0 - 50		
NH-351PW	25	25	1.0	13.7 - 100	17.3 - 100	0.75	30
			1.3	14.5 - 80	17.0 - 80		
			1.5	12.4 - 80	14.5 - 70		
NH-352PW	32	32	1.0	23.0 - 180	29.0 - 140	1.5	43
			1.3	22.0 - 100	26.0 - 100		
			1.5	21.0 - 100	25.0 - 100		
NH-353PW	32	32	1.0	23.0 - 180	32.0 - 150	2.2	51
			1.3	24.0 - 150	31.0 - 120		
			1.5	22.0 - 150	29.0 - 120		
NH-400PW	40	40	1.1	8.4 - 160	6.7 - 160	0.37	21
			1.3	7.0 - 155	7.0 - 140		
			1.5	6.1 - 130	5.9 - 130		
NH-401PW	40	40	1.1	12.0 - 240	11.5 - 250	0.75	30
			1.3	9.8 - 185	9.3 - 200		
			1.5	9.1 - 165	7.5 - 200		
NH-402PW	50	40	1.1	14.0 - 320	14.0 - 300	1.5	45
			1.3	14.0 - 280	13.9 - 265		
			1.5	12.0 - 280	14.5 - 220		
NH-403PW	50	40	1.1	20.0 - 310	19.0 - 280	2.2	47
			1.3	16.0 - 340	17.0 - 280		
			1.5	15.5 - 340	14.7 - 340		
NH-405PW	50	40	1.1	23.0 - 390	24.0 - 420	3.7	70
			1.3	21.1 - 400	24.0 - 390		
			1.5	19.0 - 390	20.0 - 390		
NH-505PW(L)	65	50	1.0	22.0 - 500	22.0 - 500	3.7	72
			1.1	20.0 - 500	22.0 - 500		
			1.3	19.0 - 500	19.0 - 500		
			1.5	16.0 - 500	16.0 - 500		
NH-505PW(H)	65	50	1.0	25.0 - 350	28.0 - 350	3.7	72
			1.1	25.0 - 350	26.0 - 350		
			1.3	22.0 - 350	24.0 - 350		
			1.5	20.0 - 350	19.7 - 350		
NH-507PW	65	50	1.0	24.0 - 600	27.0 - 600	5.5	99
			1.1	22.0 - 600	24.0 - 600		
			1.3	19.0 - 600	21.0 - 600		
			1.5	19.0 - 600	19.0 - 600		
NH-655PW	80	65	1.1	15.0 - 700	15.5 - 600	3.7	110
			1.3	12.0 - 650	-		
			1.5	10.2 - 570	-		
NH-657PW	80	65	1.1	17.5 - 800	18.0 - 750	5.5	120
			1.3	17.6 - 630	16.5 - 630		
			1.5	15.3 - 620	13.3 - 760		
NH-6510PW	80	65	1.1	23.4 - 780	23.4 - 800	7.5	130
			1.3	22.7 - 640	19.6 - 770		
			1.5	17.5 - 800	18.1 - 670		
NH-6515PW	80	65	1.1	25.5 - 1040	29.5 - 1030	11	140
			1.3	25.5 - 1040	31.5 - 650		
			1.5	25.2 - 880	24.6 - 850		

PW Series

PW series performance curve





PW-F Series (ETFE)

Magnetic Drive Pumps For Hazardous Chemical Transfer

- ETFE (carbon-fiber reinforced) wetted-end material.
- 16 models with flow rates up to 1,400 L/Min and discharge head of 42m.
- Able to handle almost all types of chemical and temperature up to 90°C.
- Adaptable to IEC Standard motor, 0.37 to 11 kW.
- Available in flange connections.

Type indication

N H - 4 0 0 P W - F - F V - L - 0 4 C

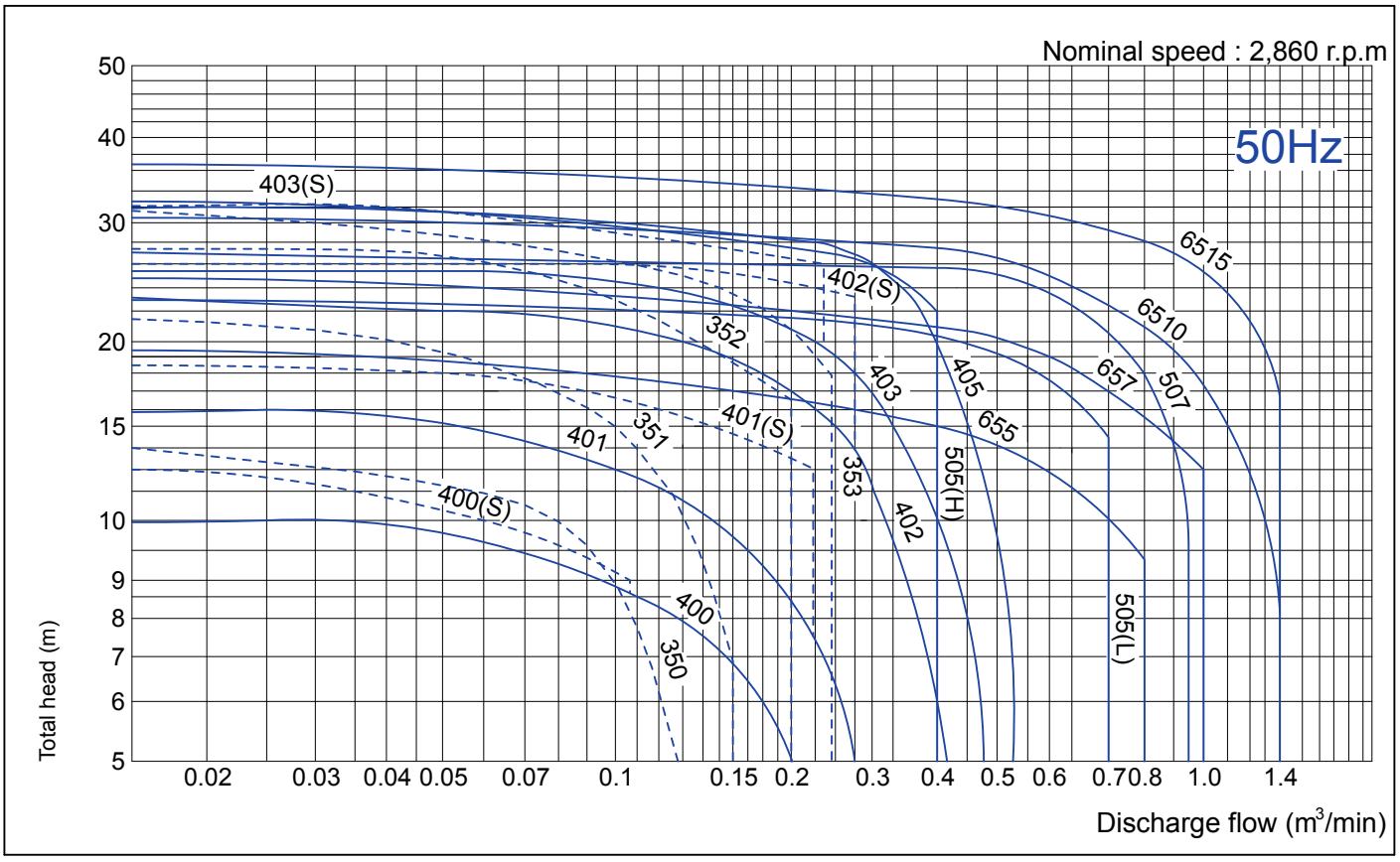
- **400** — Model
- **PW** — Series
- **F** — Bearing
  - F : High density carbon bearing - Ceramic spindle
  - R : Rulon bearing - Ceramic spindle
  - A : Ceramic bearing - Sic/Ceramic spindle
  - Si : Sic bearing - Sic spindle
- **V** — O. Ring
  - V : FKM
  - N : NBR
  - E : EPDM
- **L** — Impeller size
  - S S.G=1.0
  - L S.G=1.2
  - M S.G=1.5
  - H S.G=1.9
- **04** — Motor output
  - 04 : 0.37 kW
  - 07 : 0.75 kW
  - 15 : 1.5 kW
  - 22 : 2.2 kW
  - 37 : 3.7 kW
  - 55 : 5.5 kW
  - 75 : 7.5 kW
  - 110 : 11 kW
- **C** — Required motor
  - Without Indoor use
  - With B Explosion proof
  - C Weather proof

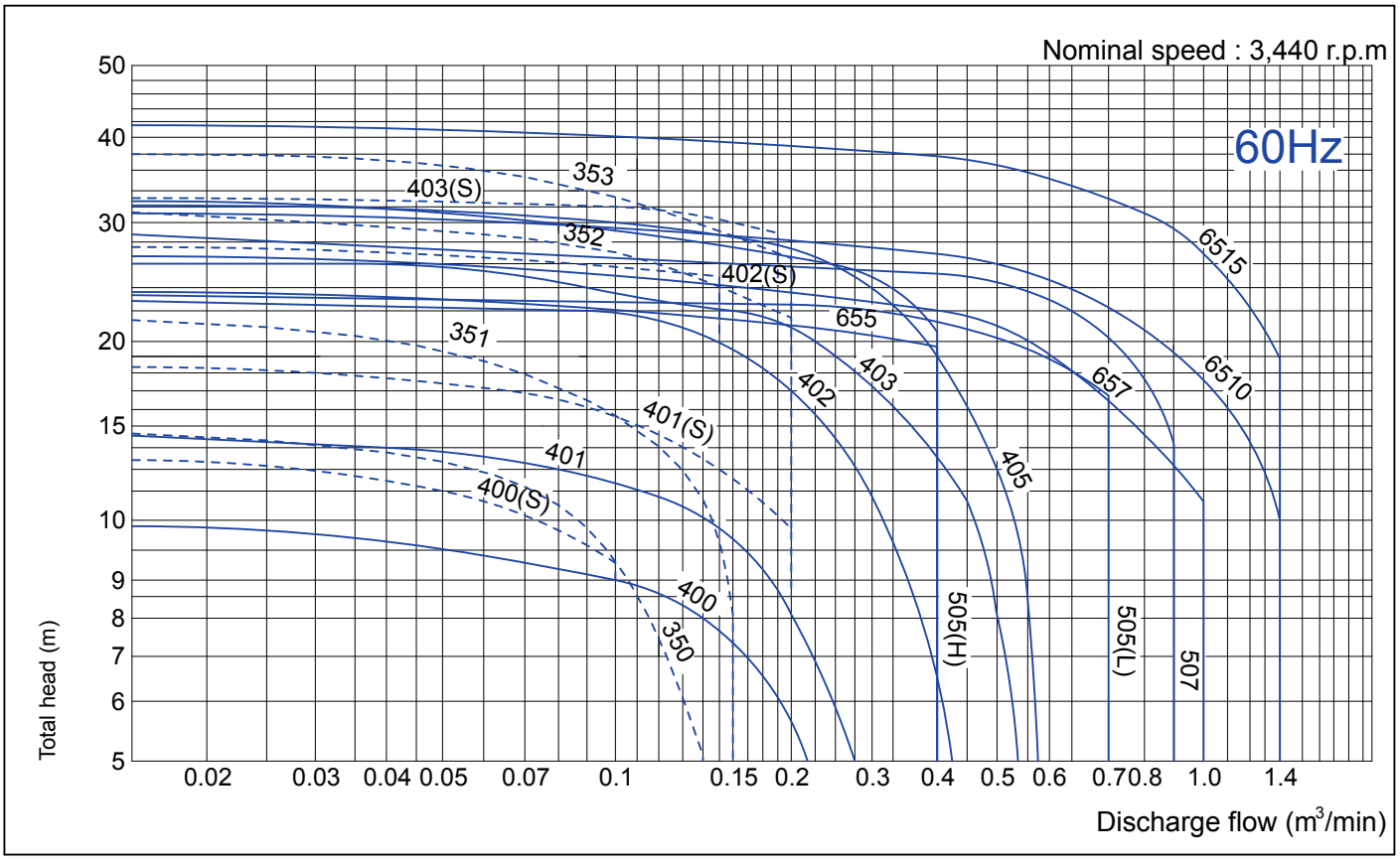
Specification table

Model	Flange size		Pump performance at specified point (m-L/Min)			Applicable Motor output (kW)	Net weight w/t motor (Kg)
	Inlet(mm)	Outlet(mm)	Specific Gravity	50Hz	60Hz		
NH-350PW-F	25	25	1.2	10.0 - 80	11.0 - 80	0.37	16
			1.5	11.0 - 40	11.0 - 50		
			1.9	6.0 - 50	7.0 - 60		
NH-351PW-F	25	25	1.2	15.0 - 100	17.0 - 80	0.75	30
			1.5	12.4 - 80	14.5 - 70		
			1.9	12.0 - 80	14.5 - 20		
NH-352PW-F	32	32	1.2	23.0 - 100	27.0 - 100	1.5	44
			1.5	21.0 - 100	25.0 - 100		
			1.9	18.0 - 100	21.0 - 100		
NH-353PW-F	32	32	1.2	24.0 - 150	32.0 - 120	2.2	51
			1.5	22.0 - 150	29.0 - 120		
			1.9	19.0 - 150	25.0 - 120		
NH-400PW-F	40	40	1.2	7.4 - 135	8.0 - 110	0.37	21
			1.5	6.5 - 135	5.2 - 135		
			1.9	4.7 - 120	3.9 - 120		
NH-401PW-F	40	40	1.2	10.0 - 180	9.5 - 180	0.75	30
			1.5	8.5 - 160	8.8 - 160		
			1.9	6.0 - 175	5.2 - 175		
NH-402PW-F	50	40	1.2	16.0 - 260	15.5 - 260	1.5	45
			1.5	13.0 - 240	13.5 - 240		
			1.9	10.0 - 280	7.9 - 280		
NH-403PW-F	50	40	1.2	17.0 - 330	15.0 - 330	2.2	47
			1.5	15.0 - 310	16.3 - 310		
			1.9	14.0 - 280	13.0 - 280		
NH-405PW-F	50	40	1.2	24.5 - 390	20.5 - 390	3.7	70
			1.5	20.5 - 310	20.3 - 350		
			1.9	15.2 - 220	19.3 - 290		
NH-505PW-F(L)	65	50	1.2	19.0 - 500	20.0 - 500	3.7	72
			1.5	16.0 - 500	16.0 - 500		
			1.9	13.0 - 500	11.0 - 500		
NH-505PW-F(H)	65	50	1.2	24.3 - 350	25.0 - 350	3.7	72
			1.5	20.0 - 350	19.7 - 350		
			1.9	20.0 - 350	17.0 - 350		
NH-507PW-F	65	50	1.2	21.5 - 600	22.5 - 600	5.5	99
			1.5	19.0 - 600	19.5 - 600		
			1.9	16.0 - 600	15.0 - 600		
NH-655PW-F	80	65	1.2	12.2 - 600	19.8 - 400	3.7	110
			1.5	11.0 - 540	-		
			1.9	-	-		
NH-657PW-F	80	65	1.2	17.0 - 700	18.0 - 620	5.5	120
			1.5	15.3 - 625	13.5 - 750		
			1.9	11.3 - 660	-		
NH-6510PW-F	80	65	1.2	22.2 - 760	20.7 - 830	7.5	130
			1.5	18.9 - 720	18.0 - 680		
			1.9	15.5 - 660	15.0 - 720		
NH-6515PW-F	80	65	1.2	26.8 - 1080	24.0 - 1110	11	140
			1.5	26.0 - 815	26.0 - 800		
			1.9	24.1 - 600	20.5 - 835		

PW-F Series

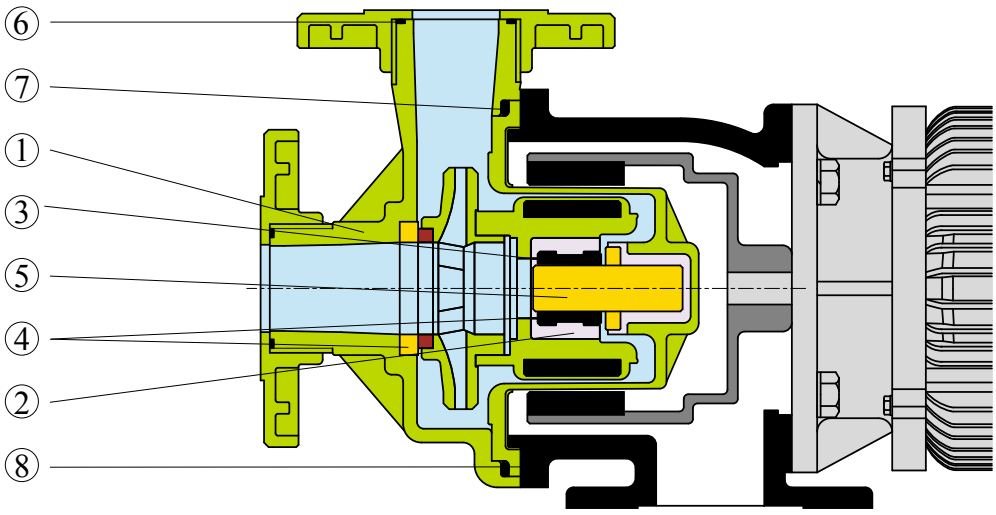
PW-F series performance curve





PW/PW-F Series

Parts List

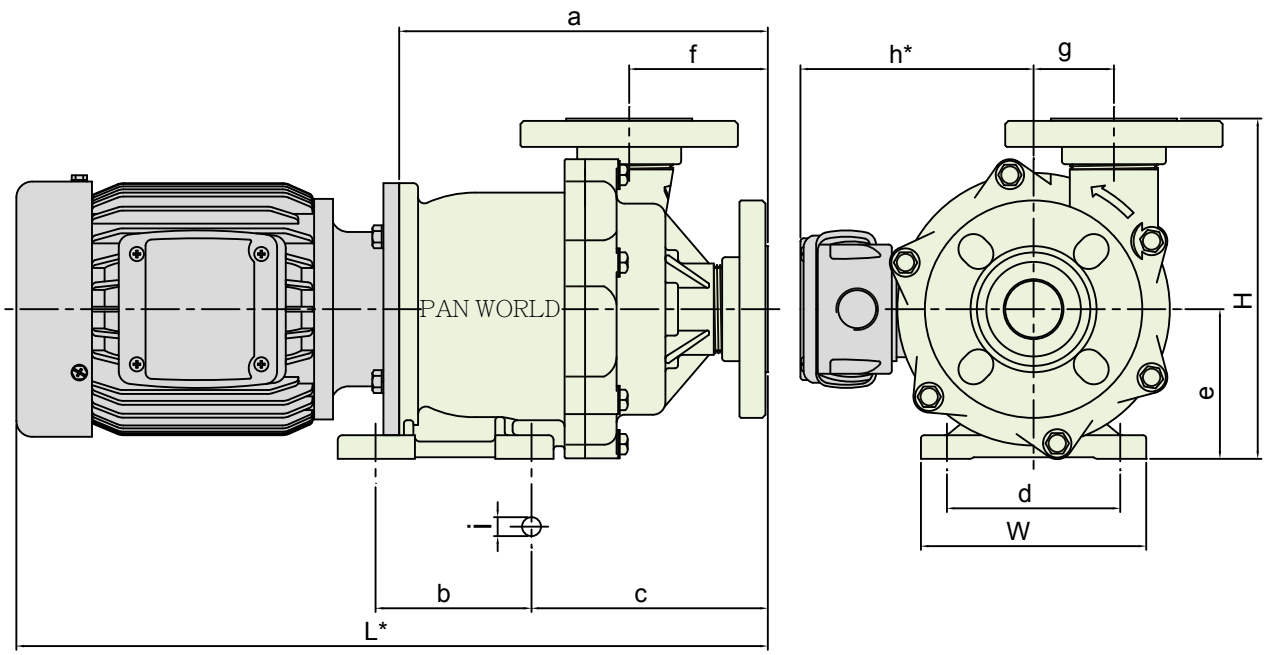


Part name	PW Series				
	CV	RV	AV	CN	AN
1. Casing	PPG				
2. Holder	ETFE				
3. Bearing	H.D. Carbon	Rulon	Ceramic	H.D. Carbon	Ceramic
4. Thrust pad	Ceramic				
5. Spindle	Ceramic				
6. O ring	FKM			NBR	
7. O ring	FKM			NBR	
8. Bracket	Grey cast iron				

Part name	PW-F Series				
	FV	RV	AV	FN	Si
1. Casing	ETFE				
2. Holder	ETFE				
3. Bearing	H.D. Carbon	Rulon	Ceramic	H.D. Carbon	Sic
4. Thrust pad	Ceramic				Sic
5. Spindle	Ceramic				Sic
6. O ring	FKM		NBR		FKM
7. O ring	FKM		NBR		FKM
8. Bracket	Grey cast iron				

PW/PW-F Series

Installation dimension



Dimensions in mm

Model	W	H	L*	a	b	c	d	e	f	g	h	i
NH-350PW/PW-F	157	257	472	232.5	130	161	130	115	88	77.5	138.5	12
NH-351PW/PW-F	160	257	470	240	130	170	130	115	88	77.5	145	12
NH-352PW/PW-F	160	242	505.5	222.5	132	155	130	120	78	57	149	12
NH-353PW/PW-F	160	242	505.5	222.5	132	155	130	120	78	57	149	12
NH-400PW/PW-F	140	216	473	233	98	150	110	95	87	51	151	12
NH-401PW/PW-F	160	254	488	256	130	184	130	115	102.5	57.5	160	12
NH-402PW/PW-F	260	255	620	305	200	158	208	115	89	65	176	14
NH-403PW/PW-F	260	255	620	305	200	158	208	115	89	65	176	14
NH-405PW/PW-F	260	270	689	326	200	158	208	130	89	65	208	14
NH-505PW/PW-F	260	319	650.5	287.5	300	123.2	220	162	89.5	60	208	14
NH-507PW/PW-F	260	319	676.5	311.5	300	123.2	220	162	89.5	60	252	14
NH-655PW/PW-F	260	360	723	360	270	240	210	175	118	85	208	14
NH-657PW/PW-F	260	360	745	380	270	240	210	175	118	85	252	14
NH-6510PW/PW-F	260	360	745	380	270	240	210	175	118	85	252	14
NH-6515PW/PW-F	350	385	918.5	408.5	270	240	300	200	118	85	285	14

Remarks :

1. This size in the table is shown with JIS motor.

2. Over all size & construction may be changed without notice.

*3. * Depending on type of motor used.*

New Product

PWE Series (PPG)

General Purpose Magnetic Drive Pumps with Glass-filled Polypropylene Bracket

- Glass-filled Polypropylene Bracket strengthen chemical resistance ability. Good for using under harsh chemical environment.
- Able to handle wide range of corrosive chemical and temperature up to 70 °C.
- Save more than 60% pump weight, compare to iron bracket.
- Easy installation at limited space with shorten volume.
- Adaptable with world wide motor as standard and pipe connections.

Type indication

N H - 4 0 2 P W E - C V - L - 1 5 C

- **Bore**: 40mm Discharge bore
- **Motor output**: 2 : 1.5kW; 3 : 2.2kW
- **Series name**
- **Bearing**: C : Carbon; R : Rulon; A : Oxide Alumina ceramic
- **O. Ring**: V : FKM; N : NBR; E : EPDM
- **Impeller**: S : SG=1.0; L : SG=1.1; M : SG=1.3; H : SG=1.5
- **Motor output**: 15 : 1.5kW; 22 : 2.2kW
- **Required motor**: Without Inside use; With B Explosion proof; C Weather proof

Specification table

Model	Flange size		Pump performance at specified point (m-L/Min)			Applicable Motor Output (kW)	Net weight w/t aluminum motor (Kg)
	Inlet(mm)	Outlet(mm)	Specific Gravity	50Hz	60Hz		
NH-402PWE	50	40	1.1	14.0 - 320	14.0 - 300	1.5	24
			1.3	14.0 - 280	13.9 - 265		
			1.5	12.0 - 280	14.5 - 220		
NH-403PWE	50	40	1.1	20.0 - 310	19.0 - 280	2.2	27
			1.3	16.0 - 340	17.0 - 280		
			1.5	15.5 - 340	14.7 - 340		

New Product

PWE-F Series (ETFE)

Magnetic Drive Pumps with Glass-filled Polypropylene Bracket For Hazardous Chemical Transfer

- Glass-filled Polypropylene Bracket strengthen chemical resistance ability. Good for using under harsh chemical environment.
- Able to handle wide range of corrosive chemical and temperature up to 90 °C.
- Save more than 50% pump weight, compare to iron bracket.
- Easy installation at limited space with shorten volume.
- Adaptable with world wide motor as standard and pipe connections.

Type indication

N H - 4 0 2 P W E - F - F V - L - 1 5 C

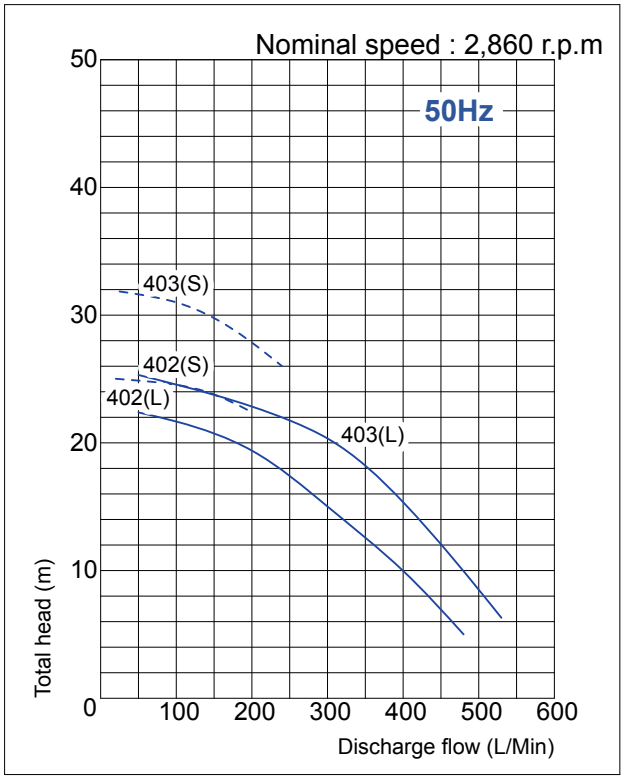
- **Bore**: 40mm Discharge bore
- **Motor output**: 2 : 1.5kW; 3 : 2.2kW
- **Series name**
- **Bearing**: F : High density carbon bearing - Ceramic spindle; R : Rulon bearing - Ceramic spindle; A : Ceramic bearing - Sic/Ceramic spindle; Si : Sic bearing - Sic spindle
- **O. Ring**: V : FKM; N : NBR; E : EPDM
- **Impeller**: S : SG=1.0; L : SG=1.2; M : SG=1.5; H : SG=1.9
- **Motor output**: 15 : 1.5kW; 22 : 2.2kW
- **Required motor**: Without Inside use; With B Explosion proof; C Weather proof

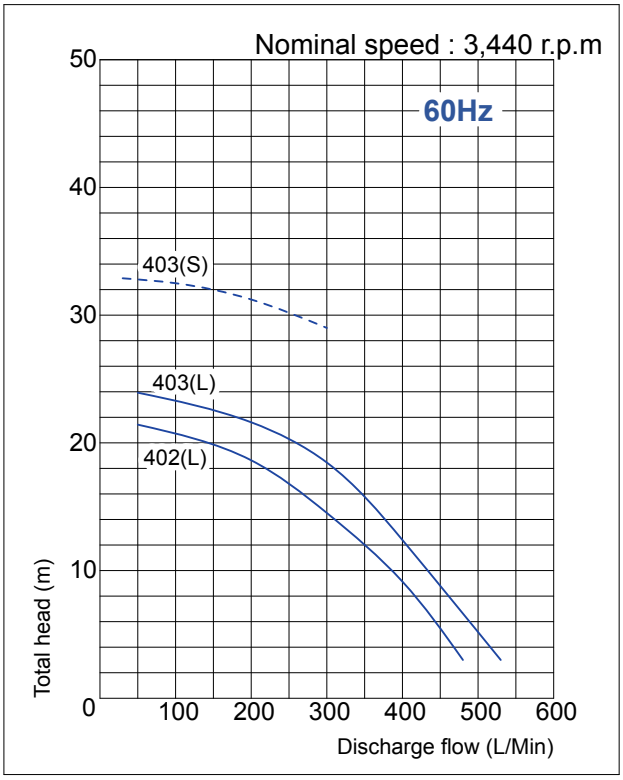
Specification table

Model	Flange size		Pump performance at specified point (m-L/Min)			Applicable Motor Output (kW)	Net weight w/t aluminum motor (Kg)
	Inlet(mm)	Outlet(mm)	Specific Gravity	50Hz	60Hz		
NH-402PWE-F	50	40	1.2	16.0 - 260	15.5 - 260	1.5	26
			1.5	13.0 - 240	13.5 - 240		
			1.9	10.0 - 280	7.9 - 280		
NH-403PWE-F	50	40	1.2	17.0 - 330	15.0 - 330	2.2	30
			1.5	15.0 - 310	16.3 - 310		
			1.9	14.0 - 280	13.0 - 280		

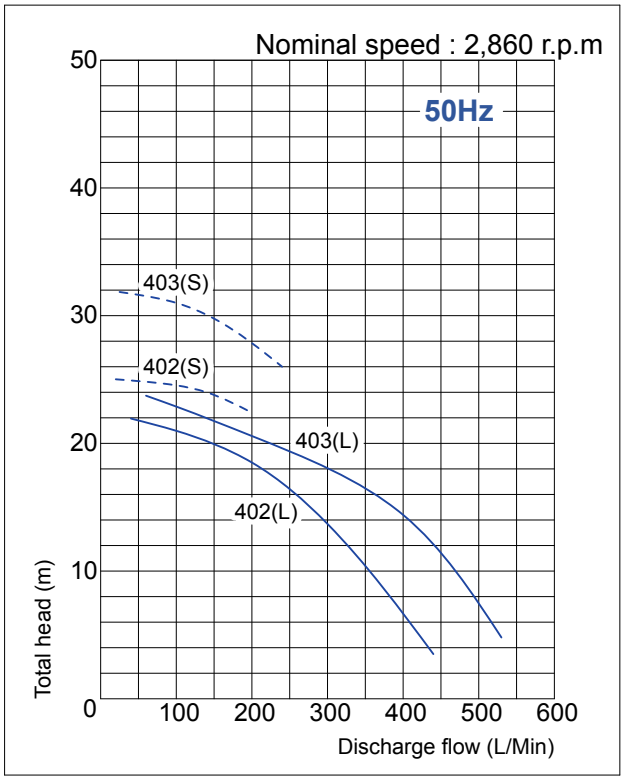
PWE Series (PPG)
PWE-F Series (ETFE)

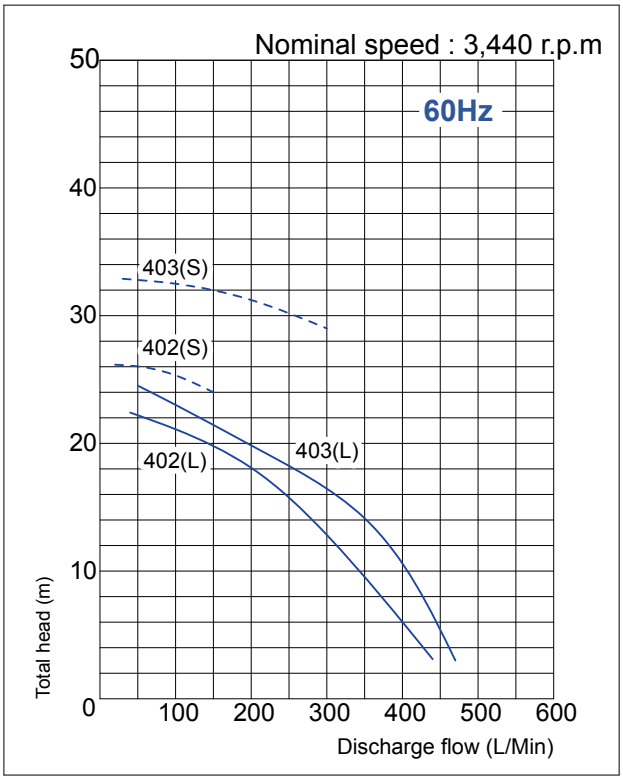
PWE series performance curve





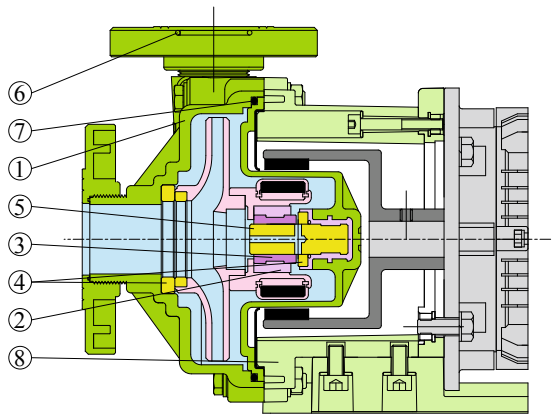
PWE-F series performance curve





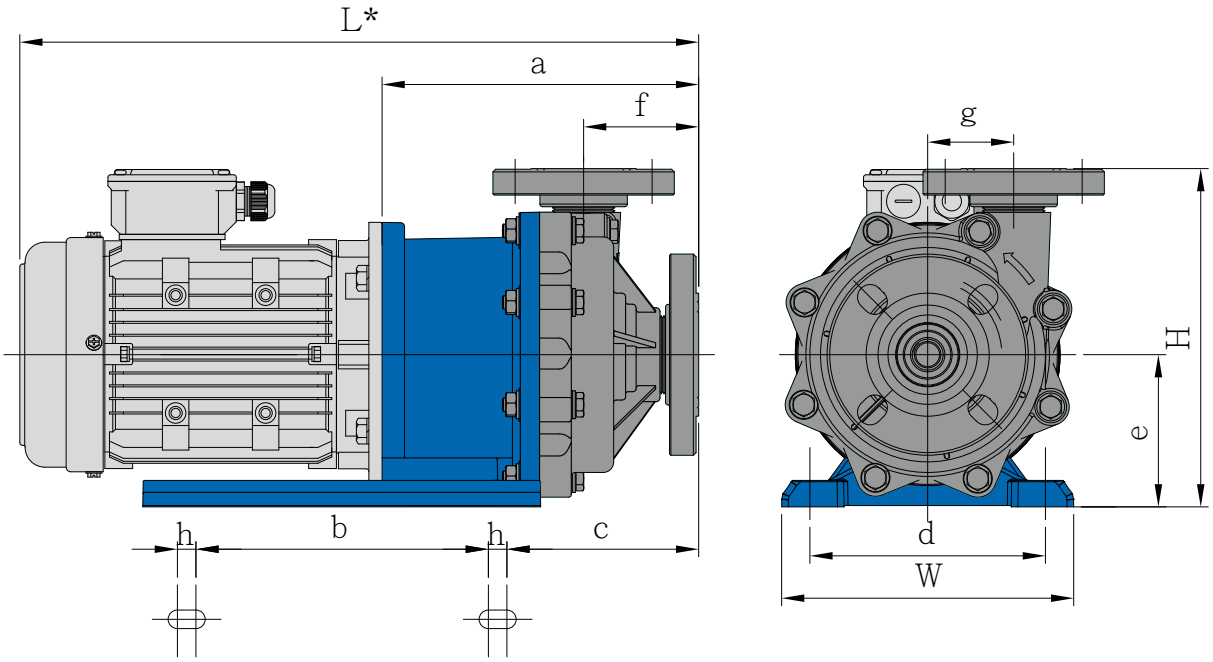
PWE/PWE-F Series

Parts List



Part name \ Model	PWE Series					PWE-F Series				
	CV	RV	AV	CN	AN	FV	RV	AV	FN	Si
1. Casing	PPG					ETFE				
2. Holder	ETFE					ETFE				
3. Bearing	H.D. Carbon	Rulon	Ceramic	H.D. Carbon	Ceramic	H.D. Carbon	Rulon	Ceramic	H.D. Carbon	Sic
4. Thrust pad	Ceramic					Ceramic				Sic
5. Spindle	Ceramic					Ceramic				Sic
6. O ring	FKM			NBR		FKM			NBR	FKM
7. O ring	FKM			NBR		FKM			NBR	FKM
8. Bracket	PP+GF									

Installation dimension



Dimensions in mm

Model	W	H	L*	a	b	c	d	e	f	g	h	i
NH-402PWE/PWE-F	220	255	512.8	239	221	145	178	115	89	65	14	14
NH-403PWE/PWE-F	220	255	512.8	239	221	145	178	115	89	65	14	14

Remarks :

1. This size in the table is shown with JIS Aluminum motor.

2. Over all size & construction may be changed without notice.

*3. * Depending on type of motor used.*

PWH Series (PPG)

High Lift Head, Heavy Duty Magnetic Drive Pumps

- PPG wetted-end material.
- 4 models with flow rates up to 900 L/Min and total discharge head of 48m.
- Able to handle many types of chemical and temperature up to 70°C.
- Adaptable with standard IEC, NEMA motor, 2.2 to 7.5 kW.
- Available in flange connections.

Type indication

N H - 5 5 3 P W H - C V - L - 2 2 C

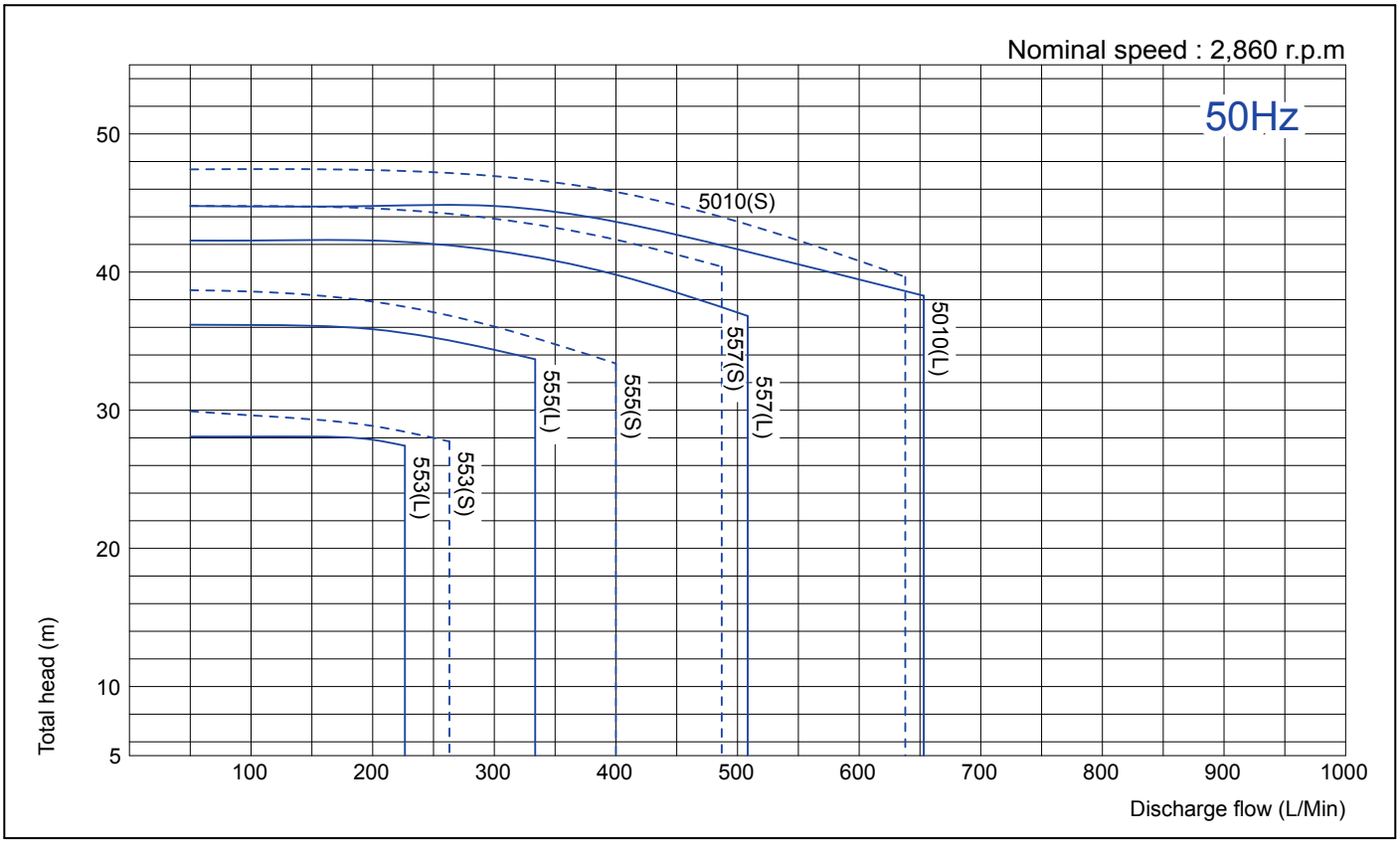
- **5 5 3** — Model
- **P W H** — Series name
- **C** — Bearing
  - C : Carbon
  - R : Rulon
  - A : Oxide Alumina ceramic
- **V** — O. Ring
  - V : FKM
  - N : NBR
  - E : EPDM
- **L** — Impeller
  - S S.G=1.0
  - L S.G=1.1
  - M S.G=1.3
  - H S.G=1.5
- **2 2** — Motor output
  - 22 : 2.2kW
  - 37 : 3.7kW
  - 55 : 5.5kW
  - 75 : 7.5kW
- **C** — Required motor
  - Without Inside use
  - With B Explosion proof
  - C Weather proof

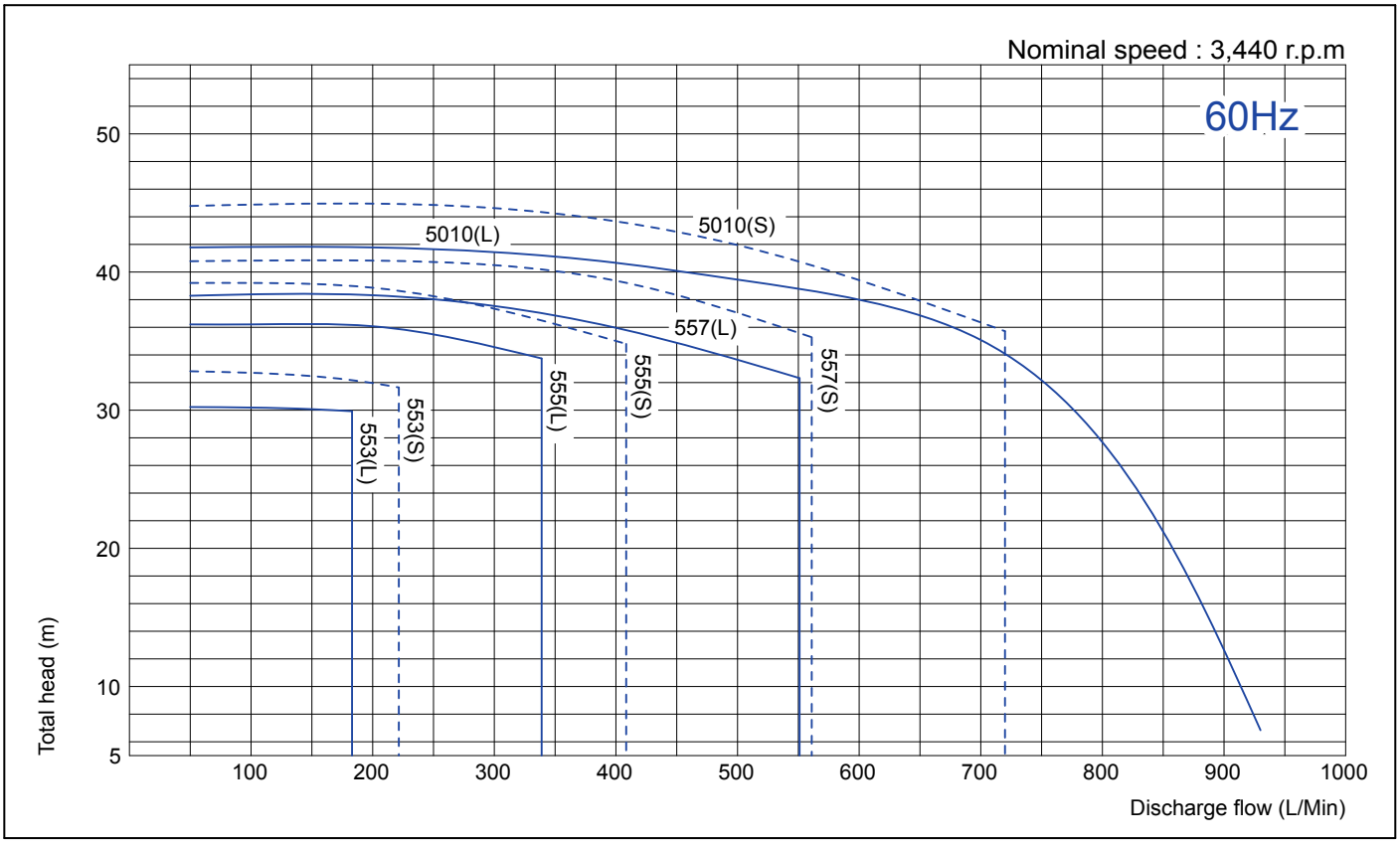
Specification table

Model	Connection method		Pump performance at specified point (m-L/Min)			Applicable Motor Output (kW)	Net weight w/t motor (Kg)
	Inlet(mm)	Outlet(mm)	Specific Gravity	50Hz	60Hz		
NH-553PWH	65	50	1.0	29.0 - 200	32.0 - 200	2.2	74
			1.1	27.5 - 200	30.0 - 150		
			1.3	23.5 - 200	27.0 - 150		
			1.5	21.0 - 200	24.5 - 130		
NH-555PWH	65	50	1.0	32.0 - 400	35.0 - 400	3.7	87
			1.1	34.0 - 300	34.5 - 300		
			1.3	31.0 - 300	30.5 - 300		
			1.5	28.0 - 300	28.0 - 300		
NH-557PWH	65	50	1.0	40.0 - 500	36.5 - 500	5.5	120
			1.1	37.0 - 500	33.5 - 500		
			1.3	33.0 - 500	29.5 - 500		
			1.5	29.5 - 500	26.0 - 500		
NH-5010PWH	65	50	1.0	41.0 - 600	36.5 - 700	7.5	132
			1.1	39.0 - 600	35.0 - 700		
			1.3	35.0 - 600	30.5 - 700		
			1.5	32.0 - 600	29.0 - 600		

PWH Series

PWH series performance curve





PWH-F Series (ETFE)

High Lift Head, Heavy Duty Magnetic Drive Pumps

- ETFE (carbon-fiber reinforced) wetted-end material.
- 4 models with flow rates up to 900 L/Min and total discharge head of 48m.
- Able to handle many types of chemical and temperature up to 90°C.
- Adaptable with standard IEC, NEMA motor, 2.2 to 7.5 kW.
- Available in flange connections.

Type indication

N H - 5 5 3 P W H - F - F V - L - 2 2 C

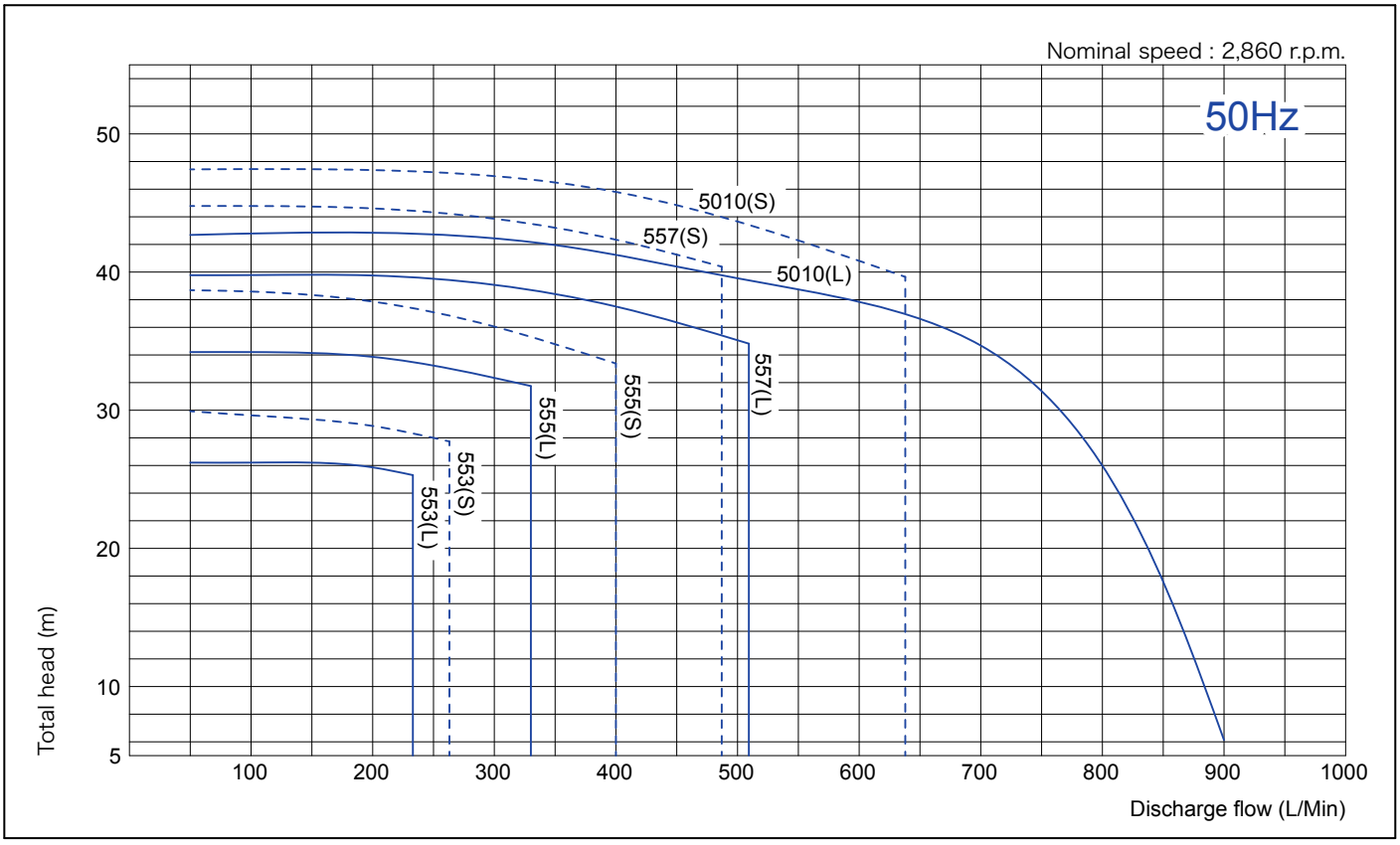
- **553** — Model
- **PWH** — Series name
- **F** — Bearing
  - F : High density carbon bearing - Ceramic spindle
  - R : Rulon bearing - Ceramic spindle
  - A : Ceramic bearing - Sic/Ceramic spindle
  - Si : Sic bearing - Sic spindle
- **V** — O. Ring
  - V : FKM
  - N : NBR
  - E : EPDM
- **L** — Impeller
  - S S.G=1.0
  - L S.G=1.2
  - M S.G=1.5
  - H S.G=1.9
- **22** — Motor output
  - 22 : 2.2kW
  - 37 : 3.7kW
  - 55 : 5.5kW
  - 75 : 7.5kW
- **C** — Required motor
  - Without Inside use
  - With B Explosion proof
  - C Weather proof

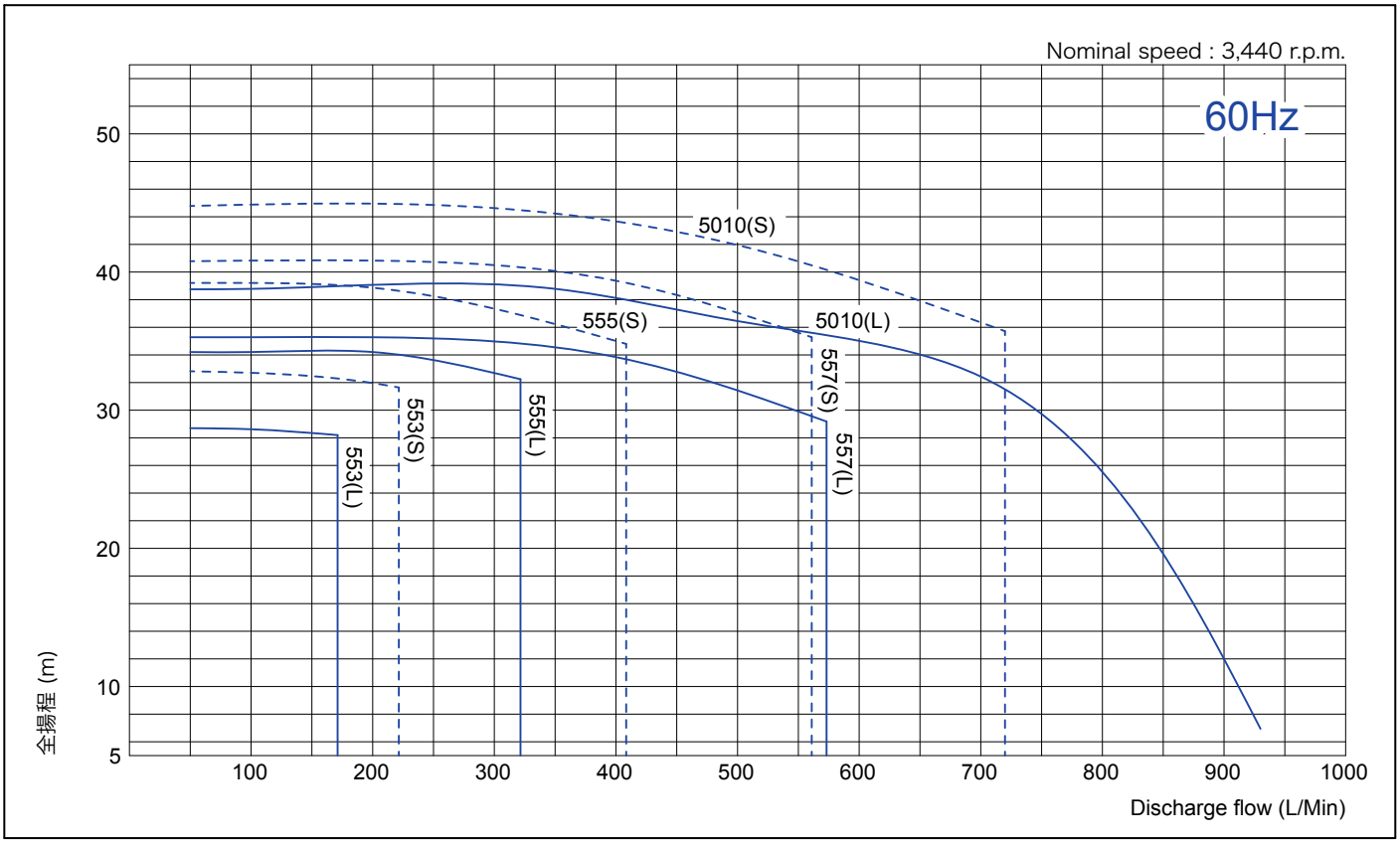
Specification table

Model	Connection method		Pump performance at specified point (m-L/Min)			Applicable Motor Output (kW)	Net weight w/t motor (Kg)
	Inlet(mm)	Outlet(mm)	Specific Gravity	50Hz	60Hz		
NH-553PWH-F	65	50	1.0	29.0 - 200	32.0 - 200	2.2	77
			1.2	26.0 - 200	28.0 - 150		
			1.5	21.0 - 200	24.5 - 130		
			1.9	17.5 - 250	19.5 - 150		
NH-555PWH-F	65	50	1.0	32.0 - 400	35.0 - 400	3.7	89
			1.2	32.0 - 300	32.5 - 300		
			1.5	28.0 - 300	28.0 - 300		
			1.9	22.0 - 350	23.0 - 300		
NH-557PWH-F	65	50	1.0	40.0 - 500	36.5 - 500	5.5	121
			1.2	35.1 - 500	31.0 - 500		
			1.5	29.5 - 500	26.0 - 500		
			1.9	25.0 - 500	21.5 - 500		
NH-5010PWH-F	65	50	1.0	41.0 - 600	36.5 - 700	7.5	133
			1.2	37.0 - 600	32.5 - 700		
			1.5	32.0 - 600	29.0 - 600		
			1.9	27.5 - 600	24.0 - 600		

PWH-F Series

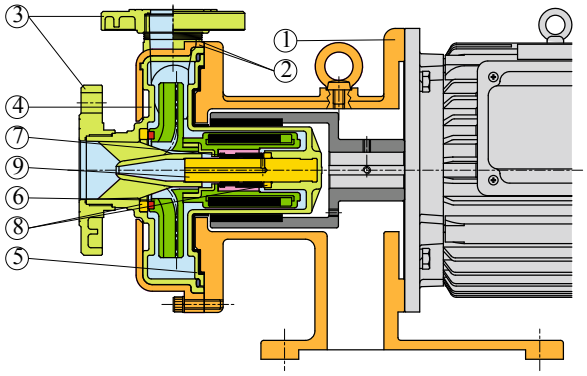
PWH-F series performance curve





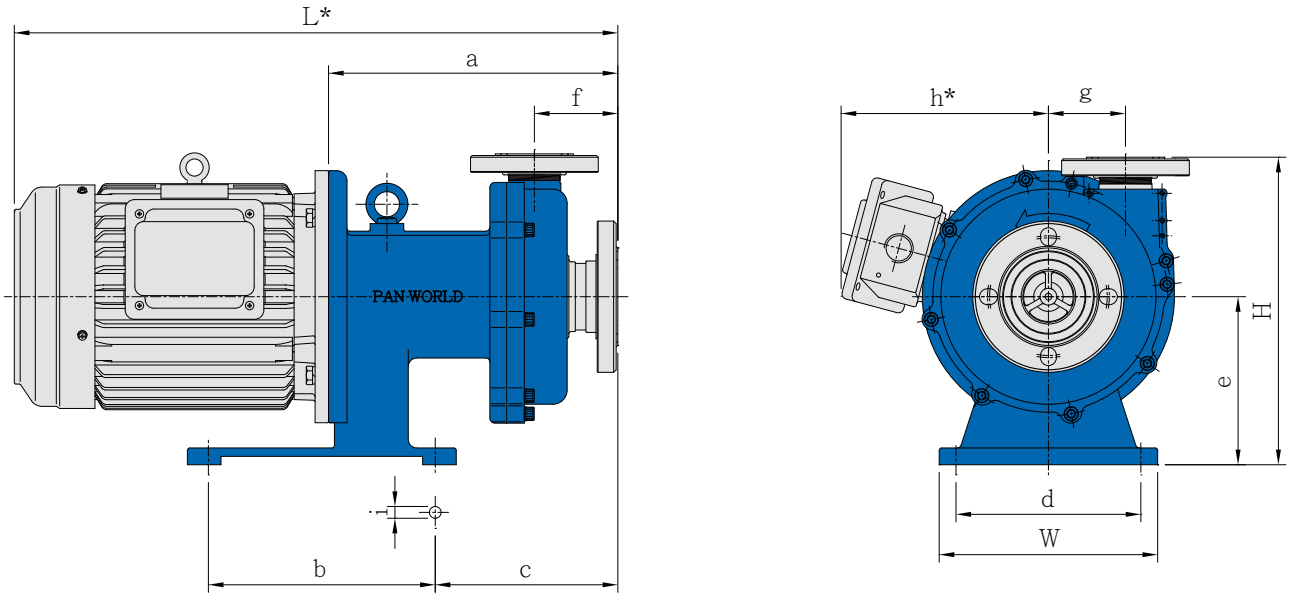
PWH/PWH-F Series

Parts List



Part name	PWH Series				PWH-F Series			
	CV	RV	AV	Si	FV	RV	AV	Si
1. Bracket	FC-20							
2. Cover A and B								
3. Flange	PPG				ETFE			
4. Front Casing								
5. Rear Casing								
6. Impeller Ass'y								
7. Bearing	H.D. Carbon	Rulon	Ceramic	Sic	H.D. Carbon	Rulon	Ceramic	Sic
8. Thrust pad	Ceramic				Ceramic			
9. Spindle								

Installation dimension



Dimensions in mm

Model	W	H	L*	a	b	c	d	e	f	g	h*	i
NH-553PWH/PWH-F	260	316	596	313	250	215	210	150	100	91.7	170	14
NH-555PWH/PWH-F	260	316	690	325	250	215	210	150	100	91.7	203	14
NH-557PWH/PWH-F	260	366	710	345	218	270	210	200	100	91.7	252	14
NH-5010PWH/PWH-F	260	366	719	345	218	270	210	200	100	91.7	252	14

Remark :

1. This size in the table is shown with JIS motor.

2. Over all size & construction may be changed without notice.

*3. * Depending on type of motor used.*

PS-K Series (Fluorine Resin)

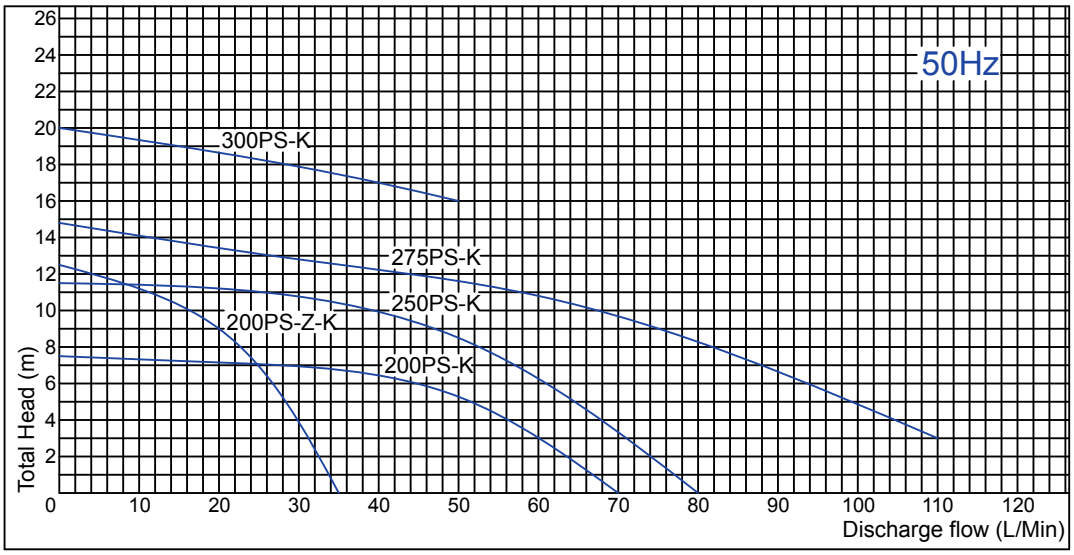
- Precision injection part, Fluorine Resin.
- 11 models with flow rates up to 120 L/Min and discharge head of 26 m.
- Able to handle almost all types of chemical and temperature up to 80°C.
- Avaliable in hose , threaded or flange connections.

Specification table

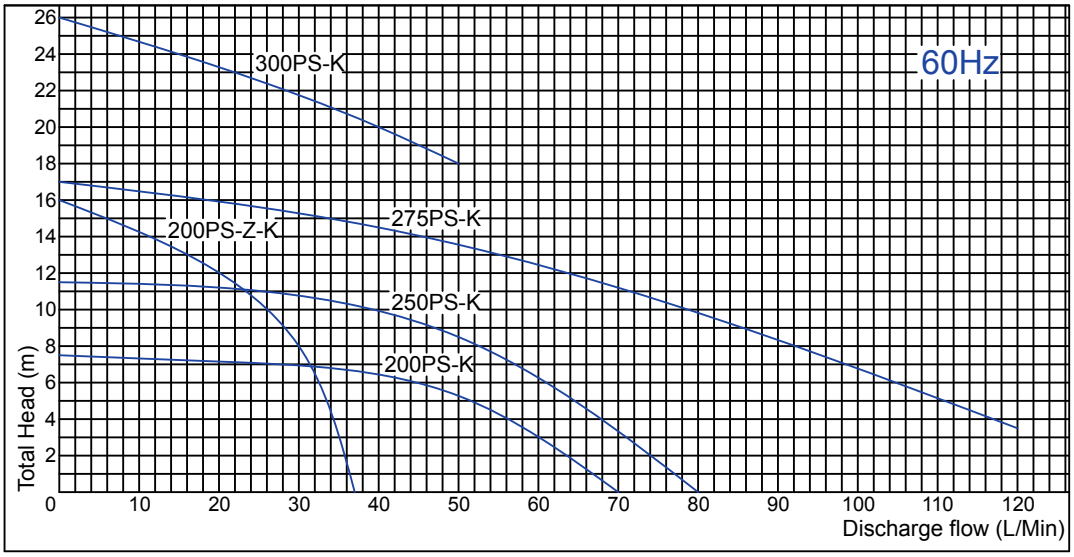
Model	Connection method				Performance (m-L/Min) , 50/60Hz		Motor
	Hose (mm) In x Outlet	Thread (") In x Outlet	Union (A) In x Outlet	Flange (A) In x Outlet	Max total head- max discharge	Specified head- Specified discharge	Output x Input (W)
NH-200PS-K	26 x 26	NPT1 x 1,G1 x 1	20 x 20	25 x 25	7.5 - 70 / 7.5 - 70	5.5 - 50 / 5.5 - 50	180 - 290
NH-200PS-K-3	26 x 26	NPT1 x 1,G1 x 1	20 x 20	25 x 25	7.5 - 70 / 7.5 - 70	5.5 - 50 / 5.5 - 50	180 - 290
NH-200PS-Z-K	26 x 26	NPT1 x 1,G1 x 1	20 x 20	25 x 25	12.5 - 35 / 16 - 37	9 - 20 / 11 - 30	180 - 290
NH-200PS-Z-K-3	26 x 26	NPT1 x 1,G1 x 1	20 x 20	25 x 25	12.5 - 35 / 16 - 37	9 - 20 / 11 - 30	180 - 290
NH-250PS-K	26 x 26	NPT1 x 1,G1 x 1	20 x 20	25 x 25	11.5 - 80 / 11.5 - 80	8.5 - 50 / 8.5 - 50	250 - 390
NH-250PS-K-3	26 x 26	NPT1 x 1,G1 x 1	20 x 20	25 x 25	11.5 - 80 / 11.5 - 80	8.5 - 50 / 8.5 - 50	250 - 390
NH-250PS-K-3E	26 x 26	NPT1 x 1,G1 x 1	20 x 20	25 x 25	13.5 - 120 / 14.5 - 120	9 - 50 / 9 - 50	JEM - 0.2kW
NH-275PS-K	26 x 26	NPT1 x 1,G1 x 1	20 x 20	25 x 25	14.8 - 110 / 17 - 120	11 - 60 / 11 - 70	250 - 390
NH-275PS-K-3	26 x 26	NPT1 x 1,G1 x 1	20 x 20	25 x 25	14.8 - 110 / 17 - 120	11 - 60 / 11 - 70	250 - 390
NH-300PS-K	26 x 20	NPT1 x 3/4,G1 x 3/4	20 x 16	- - -	20 - 50 / 26 - 50	16 - 50 / 21 - 50	330 - 460
NH-300PS-K-3	26 x 20	NPT1 x 3/4,G1 x 3/4	20 x 16	- - -	20 - 50 / 26 - 50	16 - 50 / 21 - 50	330 - 460

Performance curve

Nominal speed : 2,860 r.p.m

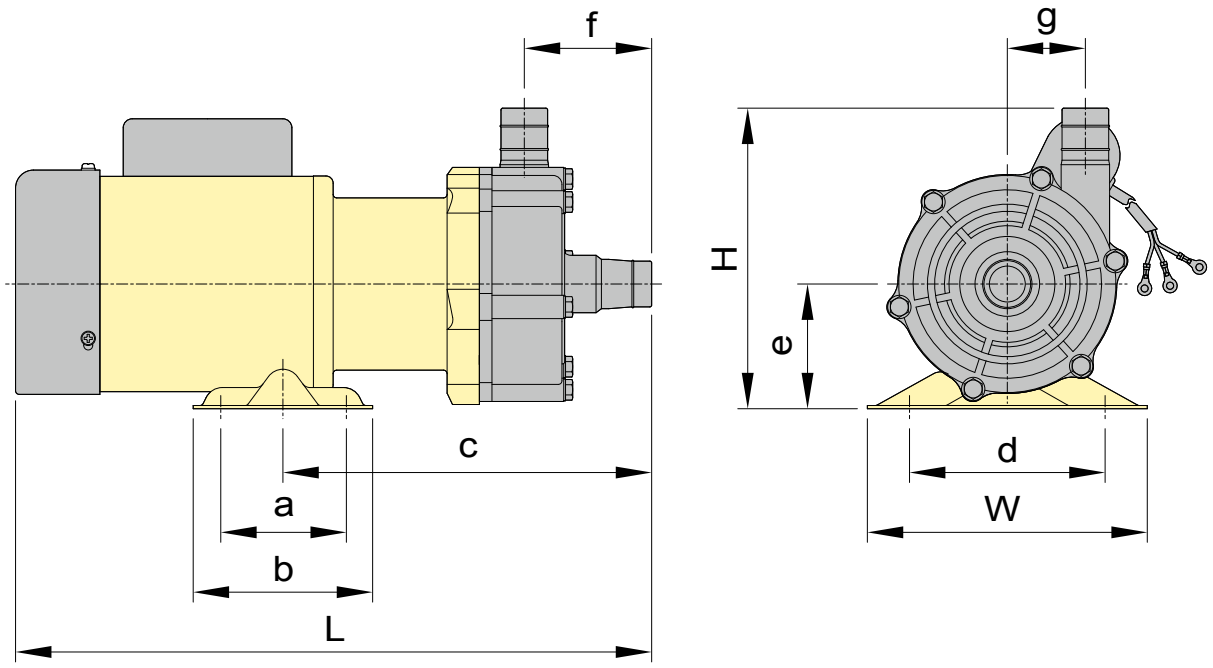


Nominal speed : 3,440 r.p.m



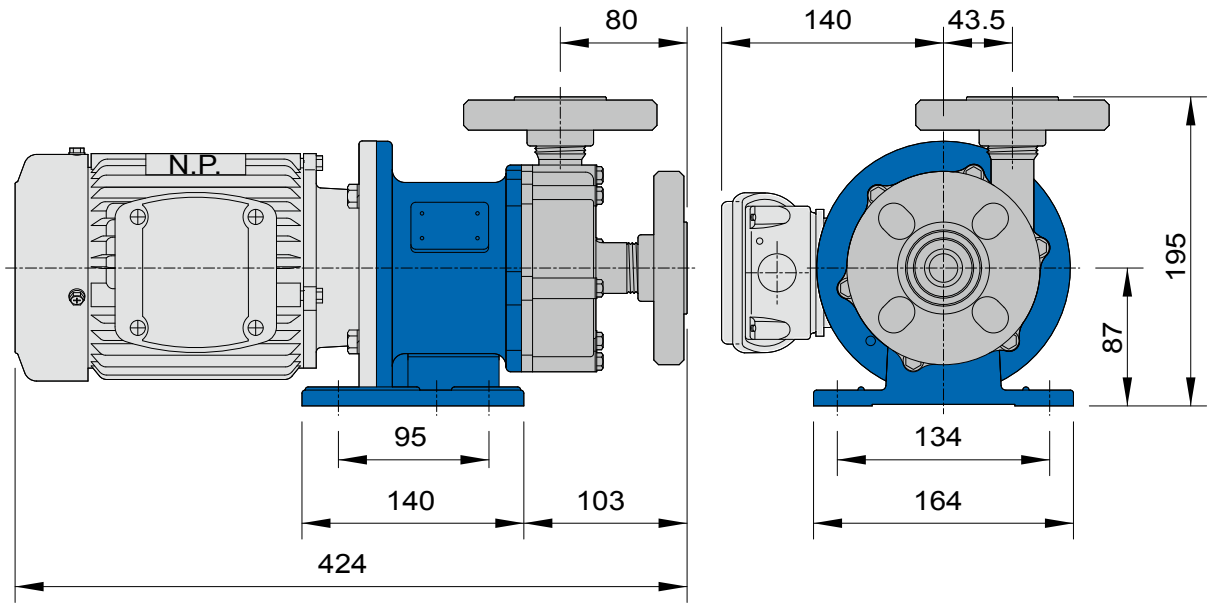
PS-K Series

Installation dimension



Dimensions in mm

Model	W	H	L	a	b	c	d	e	f	g
NH-200PS-K	156	165	355	70	100	205	110	66	70	43.5
NH-200PS-K-3	156	165	345	70	100	205	110	66	70	43.5
NH-200PS-Z-K	156	165	355	70	100	205	110	66	70	43.5
NH-200PS-Z-K-3	156	165	345	70	100	205	110	66	70	43.5
NH-250PS-K	156	165	365	70	100	195	110	66	70	43.5
NH-250PS-K-3	156	165	355	70	100	195	110	66	70	43.5
NH-275PS-K	156	165	365	70	100	195	110	66	70	43.5
NH-275PS-K-3	156	165	355	70	100	195	110	66	70	43.5
NH-300PS-K	160	175	385	80	110	200	140	75	55	59
NH-300PS-K-3	160	175	375	80	110	200	140	75	55	59



Installation dimension for NH-250PS-K-3E in mm

PW-K Series (Fluorine Resin)

Sealless Magnetic Drive Pump

- Precision injection part, Fluorine Resin.
- 9 models with flow rates up to 550 L/Min and discharge head of 36.5m.
- Able to handle almost all types of chemical and temperature of up to 80°C.
- Adaptable with standard IEC motor, 0.37 to 3.7 kW.

Type indication

NH - 40 0 PW - K - F V - L - 04 C

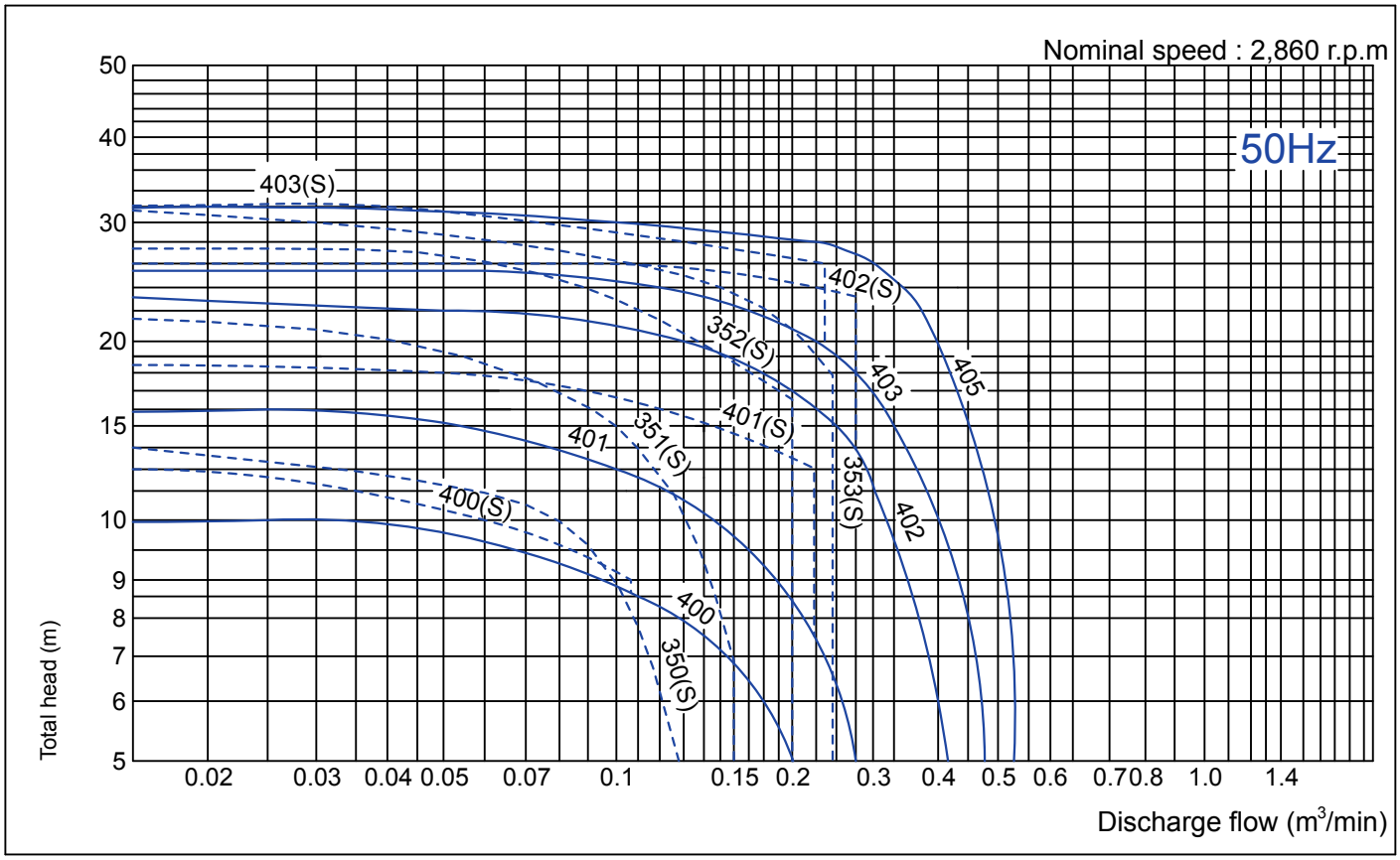
- **Bore**: 40mm Discharge bore
- **Motor output**: 0 : 0.37kW; 1 : 0.75kW; 2 : 1.5kW; 3 : 2.2kW; 5 : 3.7kW
- **Series name**
- **Bearing**: F : High density carbon bearing - Ceramic spindle; R : Rulon bearing - Ceramic spindle; A : Ceramic bearing - Sic/Ceramic spindle; Si : Sic bearing - Sic spindle
- **O. Ring**: V : FKM; N : NBR; E : EPDM
- **Impeller**: S S.G=1.0; L S.G=1.2; M S.G=1.5; H S.G=1.9
- **Motor output**: 04 : 0.37kW; 07 : 0.75kW; 15 : 1.5kW; 22 : 2.2kW; 37 : 3.7kW
- **Required motor**: Without Indoor use; With B Explosion proof; C Weather proof

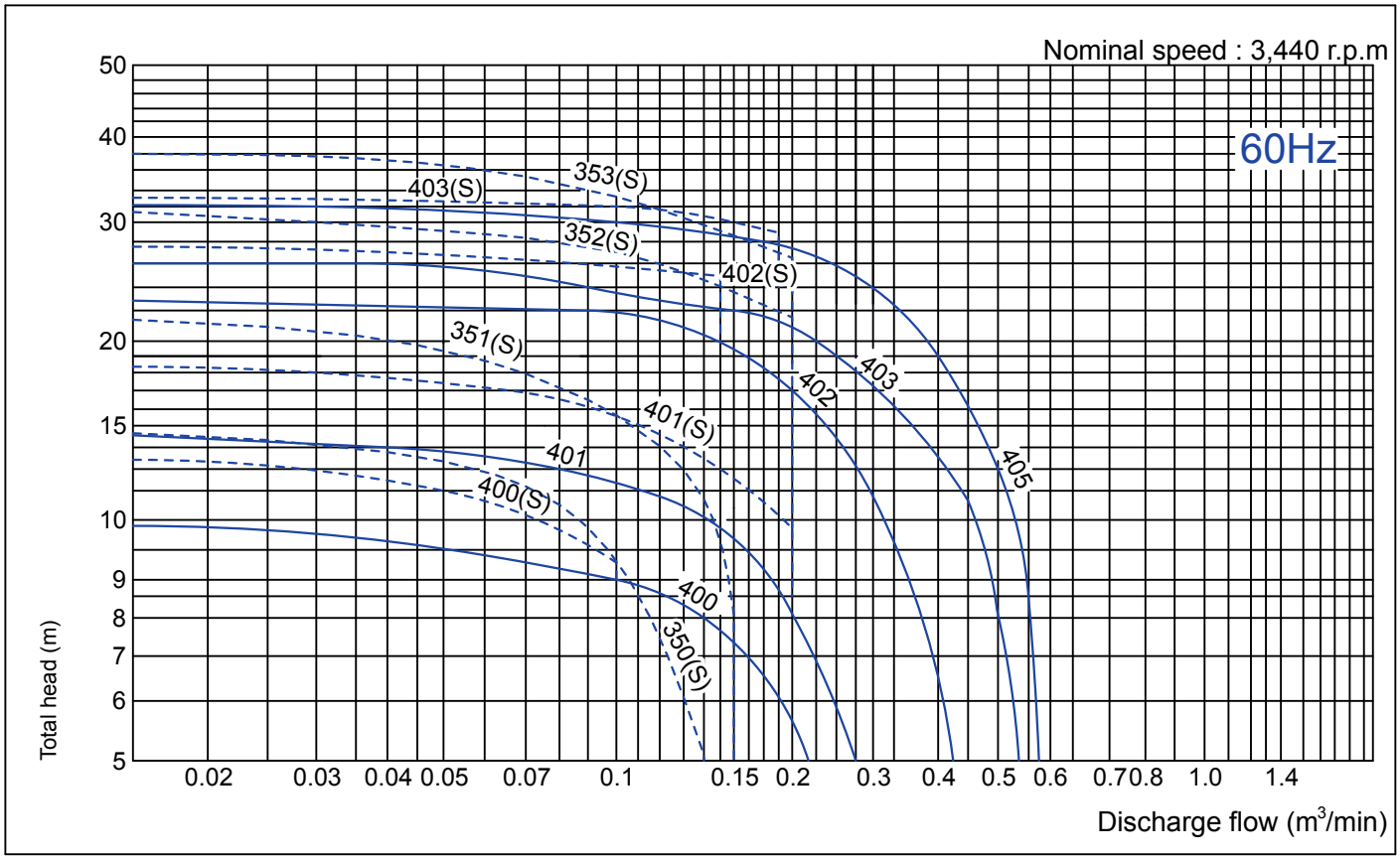
Specification table

Model	Connection method		Pump performance at specified point (m-L/Min)			Applicable Motor Output(kW)
	Inlet(mm)	Outlet(mm)	Specific Gravity	50Hz	60Hz	
NH-350PW-K	25	25	1.2	10.0 - 80	11.0 - 80	0.37
			1.5	11.0 - 40	11.0 - 50	
			1.9	6.0 - 50	7.0 - 60	
NH-351PW-K	25	25	1.2	15.0 - 100	17.0 - 80	0.75
			1.5	12.4 - 80	14.5 - 70	
			1.9	12.0 - 80	14.5 - 20	
NH-352PW-K	32	32	1.2	23.0 - 100	27.0 - 100	1.5
			1.5	21.0 - 100	25.0 - 100	
			1.9	18.0 - 100	21.0 - 100	
NH-353PW-K	32	32	1.2	24.0 - 150	32.0 - 120	2.2
			1.5	22.0 - 150	29.0 - 120	
			1.9	19.0 - 150	25.0 - 120	
NH-400PW-K	40	40	1.2	7.4 - 135	8.0 - 110	0.37
			1.5	6.5 - 135	5.2 - 135	
			1.9	4.7 - 120	3.9 - 120	
NH-401PW-K	40	40	1.2	10.0 - 180	9.5 - 180	0.75
			1.5	8.5 - 160	8.8 - 160	
			1.9	6.0 - 175	5.2 - 175	
NH-402PW-K	50	40	1.2	16.0 - 260	15.5 - 260	1.5
			1.5	13.0 - 240	13.5 - 240	
			1.9	10.0 - 280	7.9 - 280	
NH-403PW-K	50	40	1.2	17.0 - 330	15.0 - 330	2.2
			1.5	15.0 - 310	16.3 - 310	
			1.9	14.0 - 280	13.0 - 280	
NH-405PW-K	50	40	1.2	24.5 - 390	20.5 - 390	3.7
			1.5	20.5 - 310	20.3 - 350	
			1.9	15.2 - 220	19.3 - 290	

PW-K Series

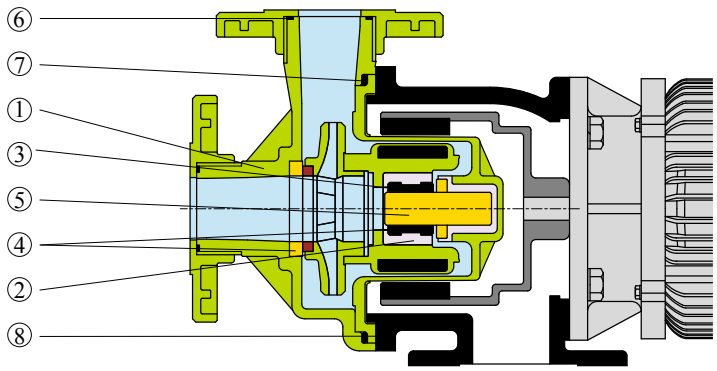
PW-K series performance curve





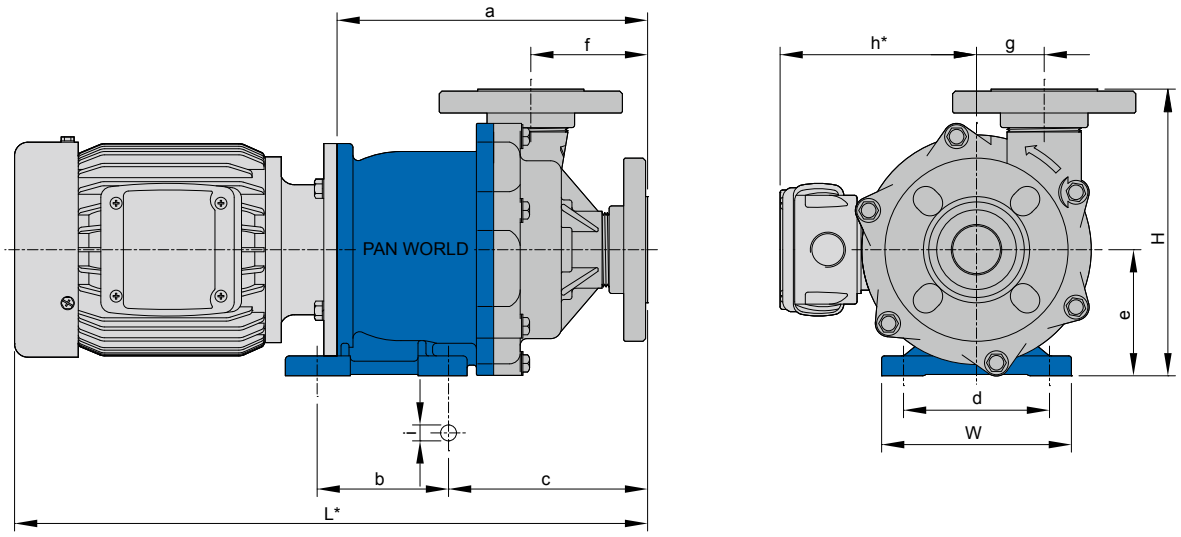
PW-K Series

Parts List



Part name	PW-K Series				
	FV	RV	AV	FN	SI
1. Casing	Fluorine Resin				
2. Holder	ETFE				
3. Bearing	H.D. Carbon	Rulon	Ceramic	H.D. Carbon	Sic
4. Thrust pad	Ceramic				Sic
5. Spindle	Ceramic				Sic
6. O ring	FKM			NBR	FKM
7. O ring	FKM			NBR	FKM
8. Bracket	Grey cast iron				

Installation dimension



Dimensions in mm

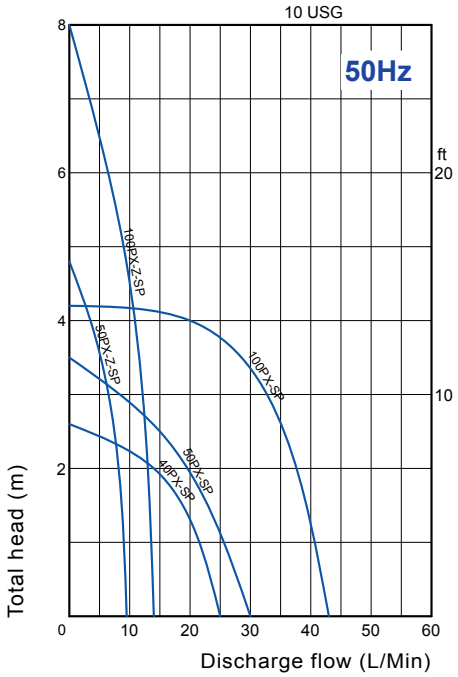
Model	W	H	L*	a	b	c	d	e	f	g	h*	i
NH-350PW-K	157	257	472	232.5	130	161	130	115	88	77.5	138.5	12
NH-351PW-K	160	257	470	240	130	170	130	115	88	77.5	145	12
NH-352PW-K	160	242	505.5	222.5	132	155	130	120	78	57	149	12
NH-353PW-K	160	242	505.5	222.5	132	155	130	120	78	57	149	12
NH-400PW-K	140	216	473	233	98	150	110	95	87	51	151	12
NH-401PW-K	160	254	488	256	130	184	130	115	102.5	57.5	160	12
NH-402PW-K	260	255	620	305	200	158	208	115	89	65	176	14
NH-403PW-K	260	255	620	305	200	158	208	115	89	65	176	14
NH-405PW-K	260	270	689	326	200	158	208	130	89	65	208	14

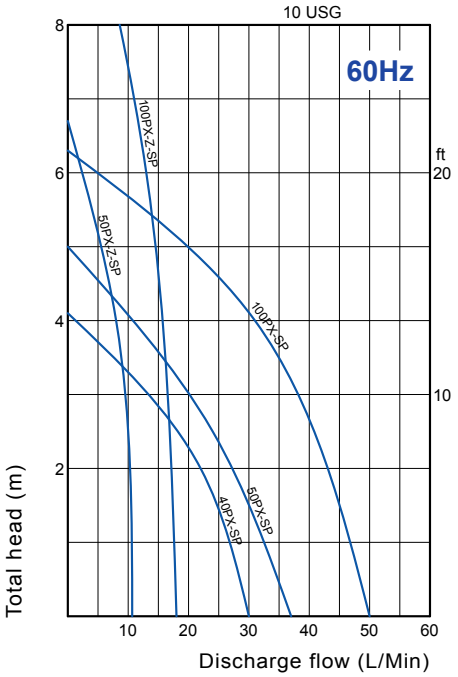
PX-SP Series (Glass Fiber reinforced PP)

Compact Magnetic Driven Pump With Self Priming Chamber

- Suitable for application of negative suction lift head.
- 6 models with flow rate up to 50 L/Min.
- Offering ceramic bearing & ceramic spindle as wetted end parts.
- Standard connections available in hose, threads or union type.
- 1.2 m suction lift at S.G. 1.0 is available.
- Top mount on to drum can is acceptable for replacement of drum pump.

Pump performance curve





Specification table

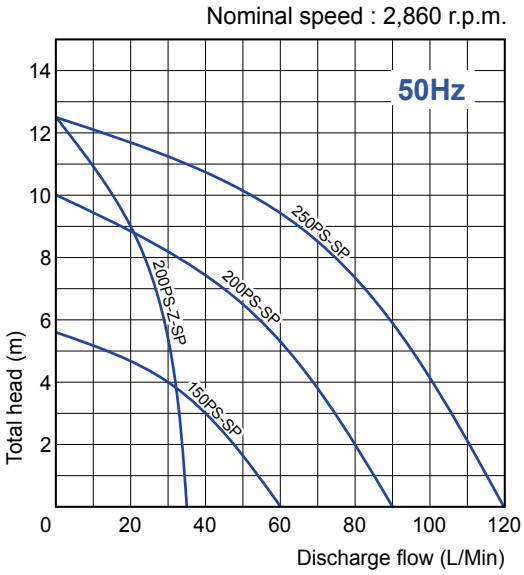
Model	Connection method			Performance (m-L/Min) , 50/60Hz		Max Suction Lift Head (m)	Motor
	Hose(mm) In x Outlet	Thread(") In x Outlet	Union(A) In x Outlet	Max total head-max discharge	Specified head-specified discharge		Output x Input (W)
NH-40PX-SP	18 x 18	G3/4 x 3/4	16 x 16	2.6 - 25.0 / 4.1 - 30.0	2.0 - 14.0 / 2.0 - 22.0	1.2	20 - 40 / 45
NH-50PX-Z-SP	18 x 18	G3/4 x 3/4	16 x 16	4.8 - 9.5 / 6.7 - 11.0	4.0 - 3.5 / 4.0 - 8.0	1.2	20 - 40 / 55
NH-50PX-SP	20 x 20	G3/4 x 3/4	16 x 16	3.5 - 30.0 / 5.0 - 37.0	2.5 - 15.0 / 2.5 - 24.0	1.2	45 - 65 / 90
NH-100PX-Z-SP	18 x 18	G3/4 x 3/4	16 x 16	8.0 - 14.0 / 11.0 - 18.0	5.0 - 9.0 / 6.0 - 13.0	1.2	45 - 80 / 95
NH-100PX-SP	20 x 20	G3/4 x 3/4	16 x 16	4.2 - 43.0 / 6.3 - 50.0	4.2 - 20.0 / 4.0 - 31.0	1.2	65 - 90 / 120

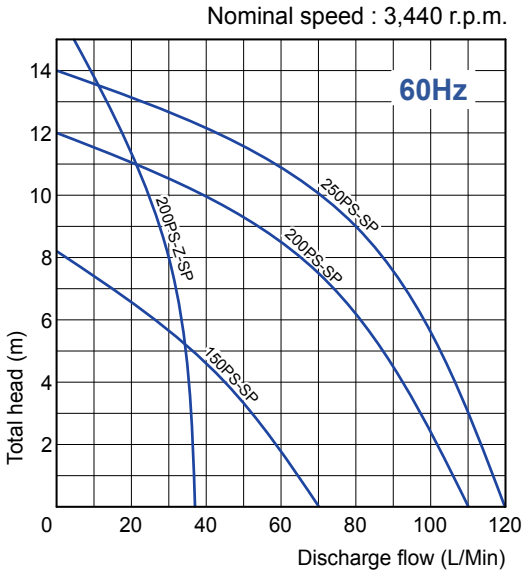
PS-SP Series (Glass Fiber reinforced PP)

Compact Magnetic Driven Pump With Self Priming Chamber

- Suitable for application of negative suction lift head.
- 7 models with flow rate up to 120 L/Min.
- Offering the combination of ceramic bearing & ceramic spindle and combination of Sic as wetted end parts.
- Standard connections available in hose, threads, flange or union type.
- 2.2 m suction lift at S.G. 1.0 is available.
- Top mount on to drum can is acceptable for replacement of drum pump.

Pump performance curve





Specification table

Model	Connection method				Performance (m-L/Min) , 50/60Hz		Max Suction Lift Head (m)	Motor	Net Weight (Kg)
	Hose(mm)	Thread(")	Union(A)	Flange (A)	Max total head-max discharge	Specified head-specified discharge		Output x Input (W)	
	In x Outlet	In x Outlet	In x Outlet	In x Outlet					
NH-150PS-SP	26 x 26	NPT1x1,G1x1	20 x 20	25 x 25	5.6 - 60 / 8.2 - 70	4 - 30 / 4 - 45	2.2	90-130/180	6
NH-200PS-Z-SP	26 x 26	NPT1x1,G1x1	20 x 20	25 x 25	12.5 - 35 / 16 - 37	9 - 20 / 8 - 30	2.2	180-290	8
NH-200PS-SP	26 x 26	NPT1x1,G1x1	20 x 20	25 x 25	10 - 90 / 12 - 110	6.5 - 50 / 7.5 - 70	2.2	180-290	8
NH-200PS-SP-3	26 x 26	NPT1x1,G1x1	20 x 20	25 x 25	10 - 90 / 12 - 110	6.5 - 50 / 7.5 - 70	2.2	180-290	8
NH-250PS-SP	26 x 26	NPT1x1,G1x1	20 x 20	25 x 25	12.5 - 120 / 14 - 120	9 - 65 / 9 - 80	2.2	250-390	8
NH-250PS-SP-3	26 x 26	NPT1x1,G1x1	20 x 20	25 x 25	12.5 - 120 / 14 - 120	9 - 65 / 9 - 80	2.2	250-390	10
NH-250PS-SP-3E	26 x 26	NPT1x1,G1x1	20 x 20	25 x 25	12.5 - 120 / 14 - 120	9 - 65 / 9 - 80	2.2	JEM-0.2kW	15

PS-N Series (Glass-fiber reinforced PP)
PS-N-K Series (Fluorine Resin)
Self-Priming Magnetic Drive Pump

- Precision injection part, glass-fiber reinforced PP or Fluorine Resin.
- Advanced design with gas and liquid separated construction.
- Max suction lift head up to 2 m.

Type Indication

N H - 2 5 0 P S - N - V - F - L

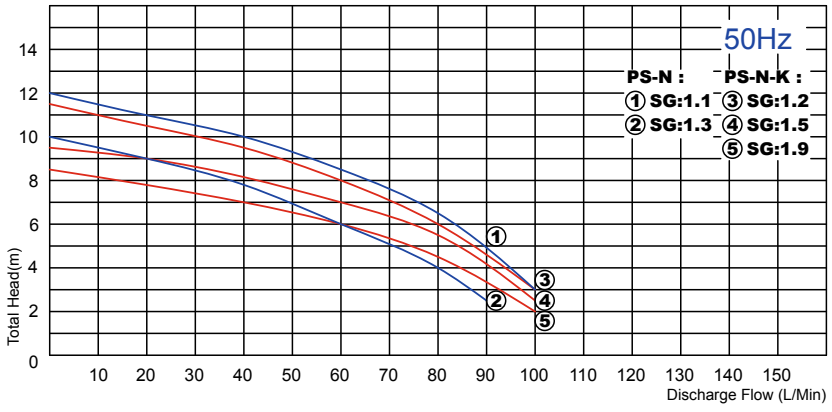
- **250** — Model name
- **PS-N** — Series name
  - PS-N : GFRPP
  - PS-N-K : Fluorine Resin
- **V** — O. Ring
  - V : FKM
  - E : EPDM
- **F** — Connection method
  - F : Flange
  - G : BS Thread
  - N : NPT Thread
- **L** — Impeller
  - PS-N : L S.G=1.1; M S.G=1.3
  - PS-N-K : L S.G=1.2; M S.G=1.5; H S.G=1.9

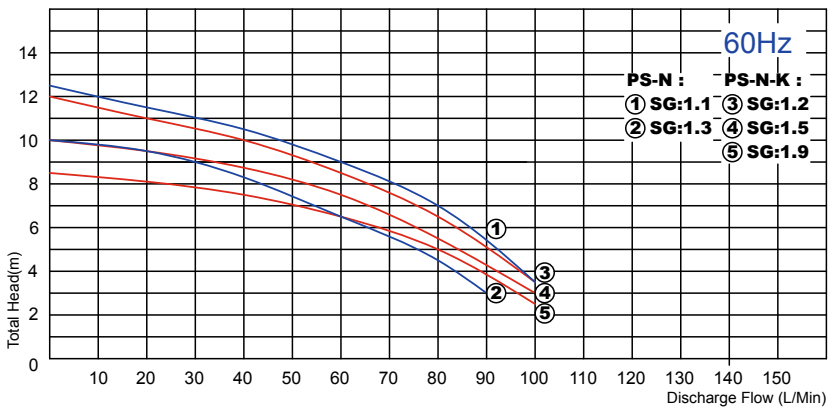
Specification table

Model	Connection method		S.G.	Performance (m-L/Min) , 50/60Hz		Max Self Priming Lift head at S.G 1.0 (m)	Motor (kW)
	Flange(mm)	Thread(")		Max capacity - max discharge	Capacity-discharge head at specified point		
	In x Outlet	In x Outlet					
NH-250PS-N	25 × 25	1 × 1	1.1	12.0 - 100 / 12.5 - 100	8.5 - 60 / 9.0 - 60	2	0.25
			1.3	10.0 - 90 / 10.0 - 90	6.0 - 60 / 6.5 - 60		
NH-250PS-N-K	25 × 25	1 × 1	1.2	11.5 - 100 / 12.0 - 100	8.0 - 60 / 8.5 - 60	2	0.25
			1.5	9.5 - 100 / 10.0 - 100	7.0 - 60 / 7.5 - 60		
			1.9	8.5 - 100 / 8.5 - 100	6.0 - 60 / 6.5 - 60		

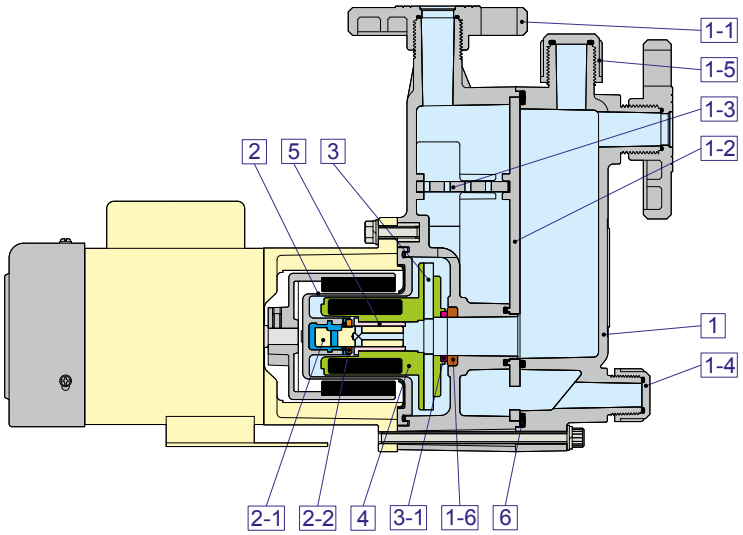
Note : 1.Max self-priming lift head is shown when horizontal pipe length of section inlet is max 0.5m.
2:Max self-priming lift head is S.G. at 1.0

Pump performance curve



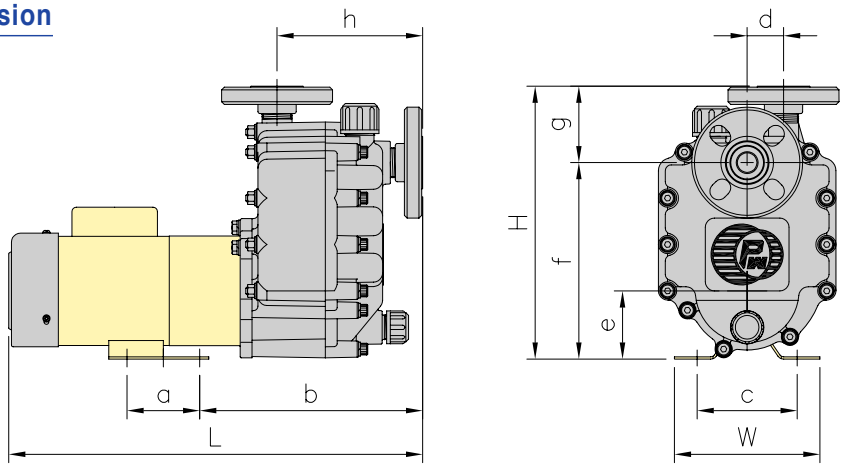


PS-N Series
PS-N-K Series
Parts List



Name of part \ Model	NH-250PS-N		NH-250PS-N-K	
	V	E	RV	RE
1. Self-priming chambers	GFRPP		Fluorine Resin	
1-1. Flange				
1-2. Telescopic piece				
1-3. Filter				
1-4. Drain cap				
1-5. Filler cap				
1-6. Thrust pad	99.5% Alumina ceramic		99.5% Alumina ceramic	
2. Rear casing	GFRPP		ETFE	
2-1. Spindle	99.5% Alumina ceramic		99.5% Alumina ceramic	
2-2. Rear thrust pad	99.5% Alumina ceramic		99.5% Alumina ceramic	
3. Impeller	GFRPP		ETFE	
3-1. Mouth ring	Rulon®		Rulon®	
4. Magnet capsule	GFRPP		ETFE	
5. Bearing	Rulon®		Rulon®	
6. Gasket	FKM	EPDM	FKM	EPDM
7. O rings	FKM	EPDM	FKM	EPDM

Installation dimension



Dimensions in mm

Model	W	H	L	a	b	c	d	e	f	g	h
NH-250PS-N/250PS-N-K	160	300	455	80	245	110	40	75	216	84	160
NH-250PS-N-3/250PS-N-K-3	160	300	455	80	245	110	40	75	216	84	160

Remark :1.PS-N(-K)/PS-N(-K)-3 The size in above table is shown with original motor.

PW-N Series (Glass-fiber reinforced PP)
PW-N-K Series (Fluorine Resin)
Self-Priming Magnetic Drive Pump

- Precision injection part, glass-fiber reinforced PP or Fluorine Resin.
- Advanced design with gas and liquid separated construction.
- Heavy duty, Reliability.
- Available in 10 models with max flow rate of 600 L/Min.
- Max suction lift head up to 4 m.
- Adaptable with world wide motor as standard and pipe connections.

Type Indication

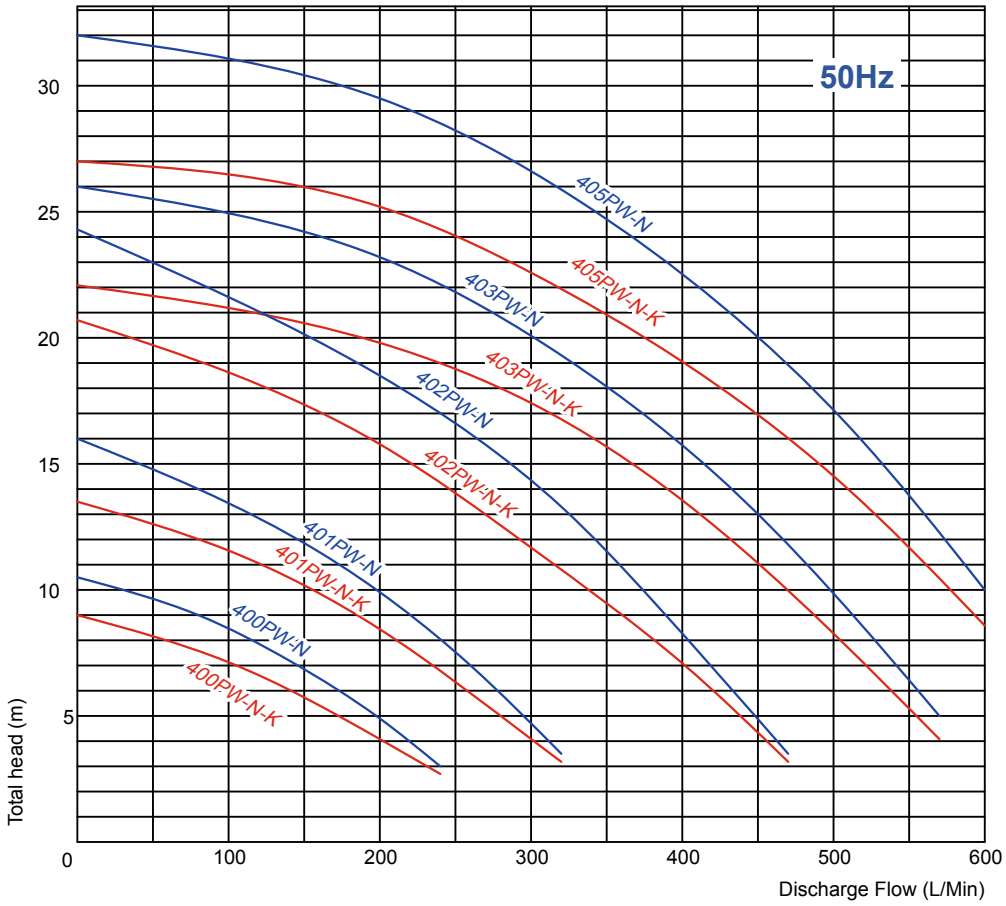
N H - 4 0 0 P W - N - C V - F - L - 5

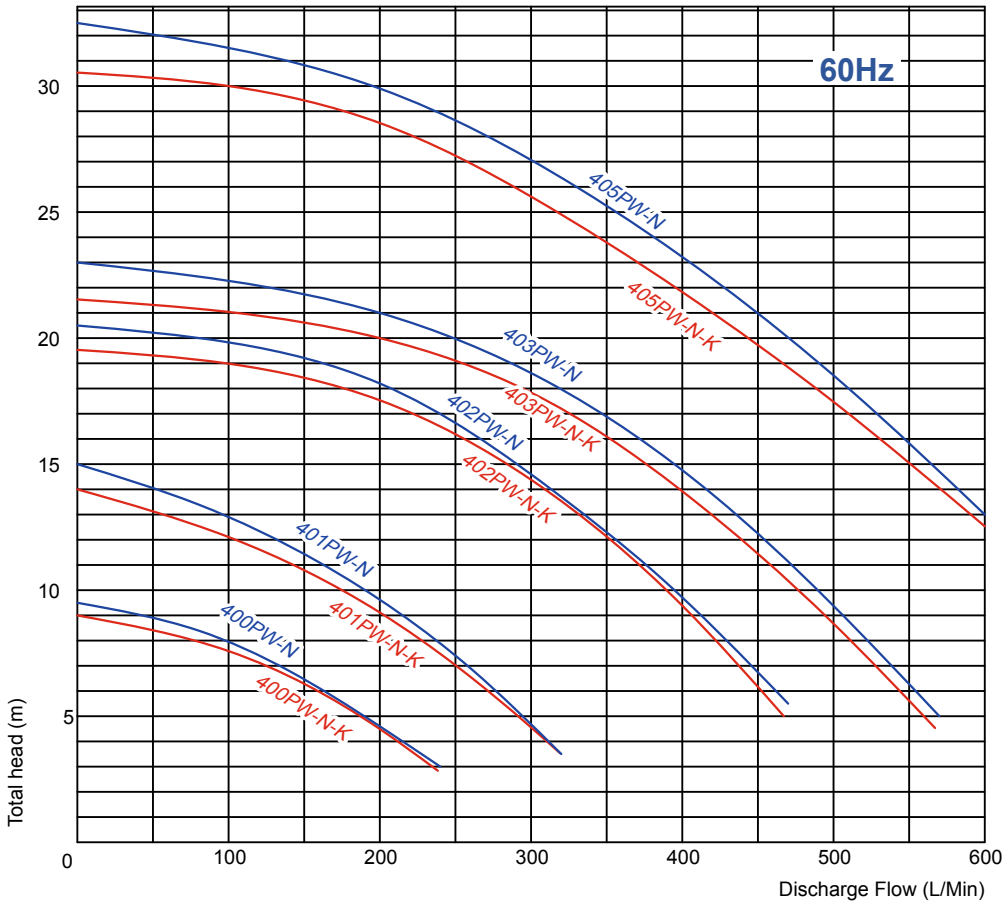
- **Bore**: Discharge bore 40mm
- **Motor output**: 0 : 0.37kW; 1 : 0.75kW; 2 : 1.5kW; 3 : 2.2kW; 5 : 3.7kW
- **Series name**: PW-N : GFRPP; PW-N-K : Fluorine Resin
- **Bearing**: PW-N : C: Carbon, R: Rulon; PW-N-K : F: Carbon, R: Rulon
- **O. Ring**: V : FKM; E : EPDM
- **Connection method**: F : Flange; G : BS Thread; N : NPT Thread
- **Impeller**: PW-N : L S.G=1.1, M S.G=1.3; PW-N-K : L S.G=1.2, M S.G=1.5, H S.G=1.9
- **Frequency**: 5 : 50Hz; 6 : 60Hz

Specification table

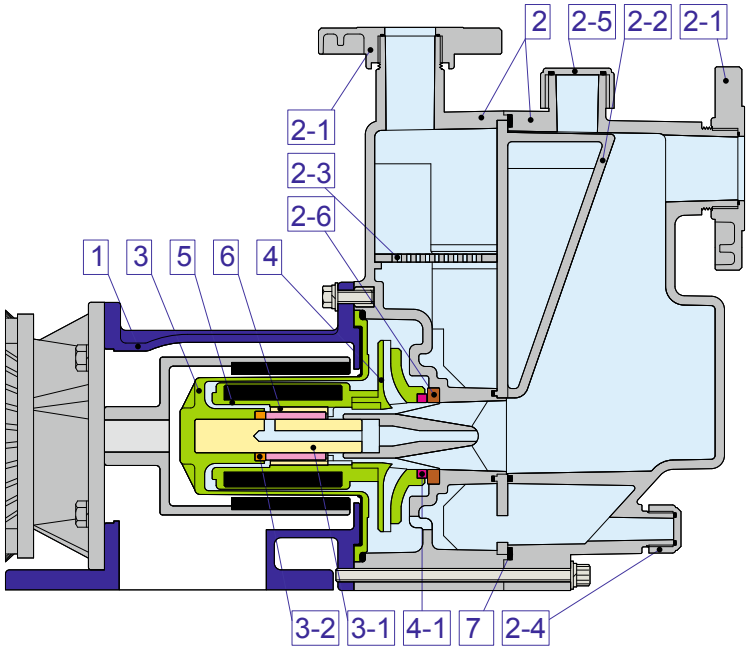
Model	Connection method		S.G	Performance (m-L/Min) , 50/60Hz		Max Self Priming Lift head at (m)	Motor (kW)
	Flange (mm) In x Outlet	B. Thread (") In x Outlet		Max capacity - max discharge	Capacity-discharge head at specified point		
NH-400PW-N	40 x 40	$1^1/_2 \times 1^1/_2$	1.1	10.5 - 240 / 9.5 - 240	7.0 - 140 / 6.0 - 140	3	0.37
			1.3	8.5 - 200 / 8.5 - 200	5.0 - 160 / 6.0 - 120		
NH-401PW-N	40 x 40	$1^1/_2 \times 1^1/_2$	1.1	16.0 - 320 / 15.0 - 320	10.0 - 200 / 8.0 - 200	3.3	0.75
			1.3	14.0 - 290 / 12.5 - 290	10.0 - 160 / 9.0 - 160		
NH-402PW-N	50 x 40	$2 \times 1^1/_2$	1.1	24.5 - 470 / 20.5 - 470	16.0 - 250 / 16.0 - 250	4	1.5
			1.3	22.0 - 450 / 19.0 - 450	14.0 - 265 / 13.0 - 265		
NH-403PW-N	50 x 40	$2 \times 1^1/_2$	1.1	26.0 - 570 / 23.0 - 570	21.0 - 280 / 19.0 - 290	4	2.2
			1.3	23.0 - 550 / 21.0 - 550	18.0 - 240 / 18.0 - 240		
NH-405PW-N	50 x 40	$2 \times 1^1/_2$	1.1	32.0 - 600 / 32.5 - 600	25.0 - 330 / 26.0 - 330	4	3.7
			1.3	32.0 - 600 / 31.0 - 570	25.0 - 330 / 23.0 - 320		
NH-400PW-N-K	40 x 40	$1^1/_2 \times 1^1/_2$	1.2	10.0 - 240 / 9.0 - 240	6.5 - 140 / 6.0 - 140	3	0.37
			1.5	8.5 - 240 / 7.5 - 240	5.5 - 140 / 5.5 - 140		
			1.9	7.5 - 240 / 6.5 - 240	5.0 - 140 / 5.5 - 120		
NH-401PW-N-K	40 x 40	$1^1/_2 \times 1^1/_2$	1.2	15.0 - 320 / 14.0 - 320	10.5 - 170 / 10.0 - 180	3.3	0.75
			1.5	13.0 - 320 / 12.0 - 320	9.5 - 160 / 8.0 - 190		
			1.9	11.0 - 320 / 10.5 - 320	8.0 - 160 / 6.5 - 220		
NH-402PW-N-K	50 x 40	$2 \times 1^1/_2$	1.2	23.0 - 470 / 19.5 - 470	17.0 - 210 / 17.5 - 200	4	1.5
			1.5	20.0 - 470 / 16.5 - 470	13.5 - 250 / 13.0 - 230		
			1.9	20.0 - 470 / 14.0 - 470	12.0 - 230 / 11.5 - 270		
NH-403PW-N-K	50 x 40	$2 \times 1^1/_2$	1.2	24.5 - 570 / 21.5 - 570	17.0 - 360 / 16.0 - 360	4	2.2
			1.5	21.0 - 570 / 18.5 - 570	15.0 - 340 / 13.0 - 380		
			1.9	18.0 - 570 / 16.0 - 570	12.5 - 360 / 12.0 - 340		
NH-405PW-N-K	50 x 40	$2 \times 1^1/_2$	1.2	30.0 - 600 / 30.5 - 600	24.0 - 330 / 24.5 - 330	4	3.7
			1.5	26.0 - 600 / 26.5 - 600	19.0 - 380 / 21.0 - 330		
			1.9	22.0 - 600 / 22.5 - 600	17.0 - 360 / 18.0 - 330		

PW-N Series
PW-N-K Series
Pump performance curve



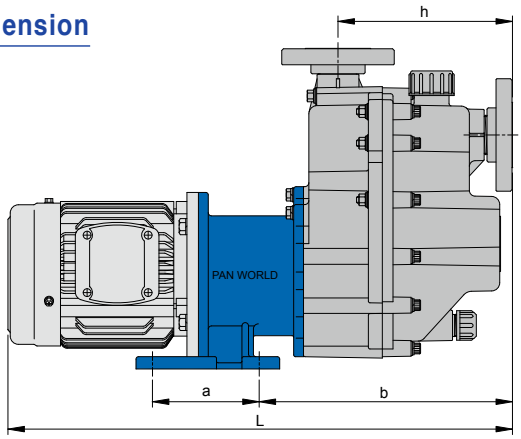


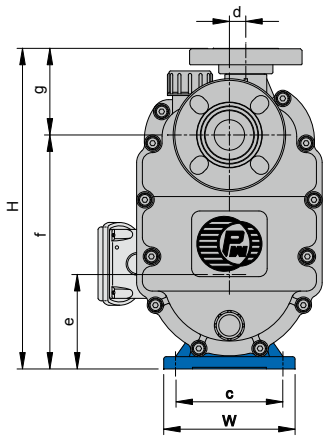
PW-N Series
PW-N-K Series
Parts List



Model / Name of part	NH-400/401/402/403/405PW-N		NH-400/401/402/403/405PW-N-K			
	CV	CE	RV	FV	RE	FE
1. Bracket	FC-20		FC-20			
2. Self-priming chambers	GFRPP		Fluorine Resin			
2-1. Flange						
2-2. Telescopic piece						
2-3. Filter						
2-4. Drain cap						
2-5. Filler cap						
2-6. Thrust pad	99.5% Alumina ceramic		99.5% Alumina ceramic			
3. Rear casing	GFRPP		ETFE			
3-1. Spindle	99.5% Alumina ceramic		99.5% Alumina ceramic			
3-2. Rear thrust pad	99.5% Alumina ceramic		99.5% Alumina ceramic			
4. Impeller	GFRPP		ETFE			
4-1. Mouth ring	Rulon LD		Rulon LD			
5. Magnet capsule	GFRPP		ETFE			
6. Bearing	Carbon		Rulon LD	Carbon	Rulon LD	Carbon
7. Gasket	FKM	EPDM	FKM		EPDM	
8. O Rings	FKM	EPDM	FKM		EPDM	

Installation dimension





Dimensions in mm

Model	W	H	L	a	b	c	d	e	f	g	h
NH-400PW-N/400PW-N-K	160	390	613	130	308	130	20	115	285	105	212
NH-401PW-N/401PW-N-K	160	390	615	130	308	130	20	115	285	105	212
NH-402PW-N/402PW-N-K	260	420	794	200	333	208	30	115	315	105	250
NH-403PW-N/403PW-N-K	260	420	794	200	333	208	30	115	315	105	250
NH-405PW-N/405PW-N-K	260	435	866	200	333	208	30	130	330	105	250

PW-C Series (ETFE-Lined Metal Profile)

Heavy Duty Magnetic Drive Pumps For The Chemical Industry

- ETFE-lined pumps in cast iron exterior as reinforcement.
- Robust construction.
- 11 models with flow rates up to 1,500 L/Min and discharge head of 42m.
- Can handle practically most chemicals and temperature up to 90°C.
- Adaptable to IEC standard motor, 0.37 to 15 kW.
- Available in flange connections.

Type indication

NH - 400 PW - C - FV - L - 04 C

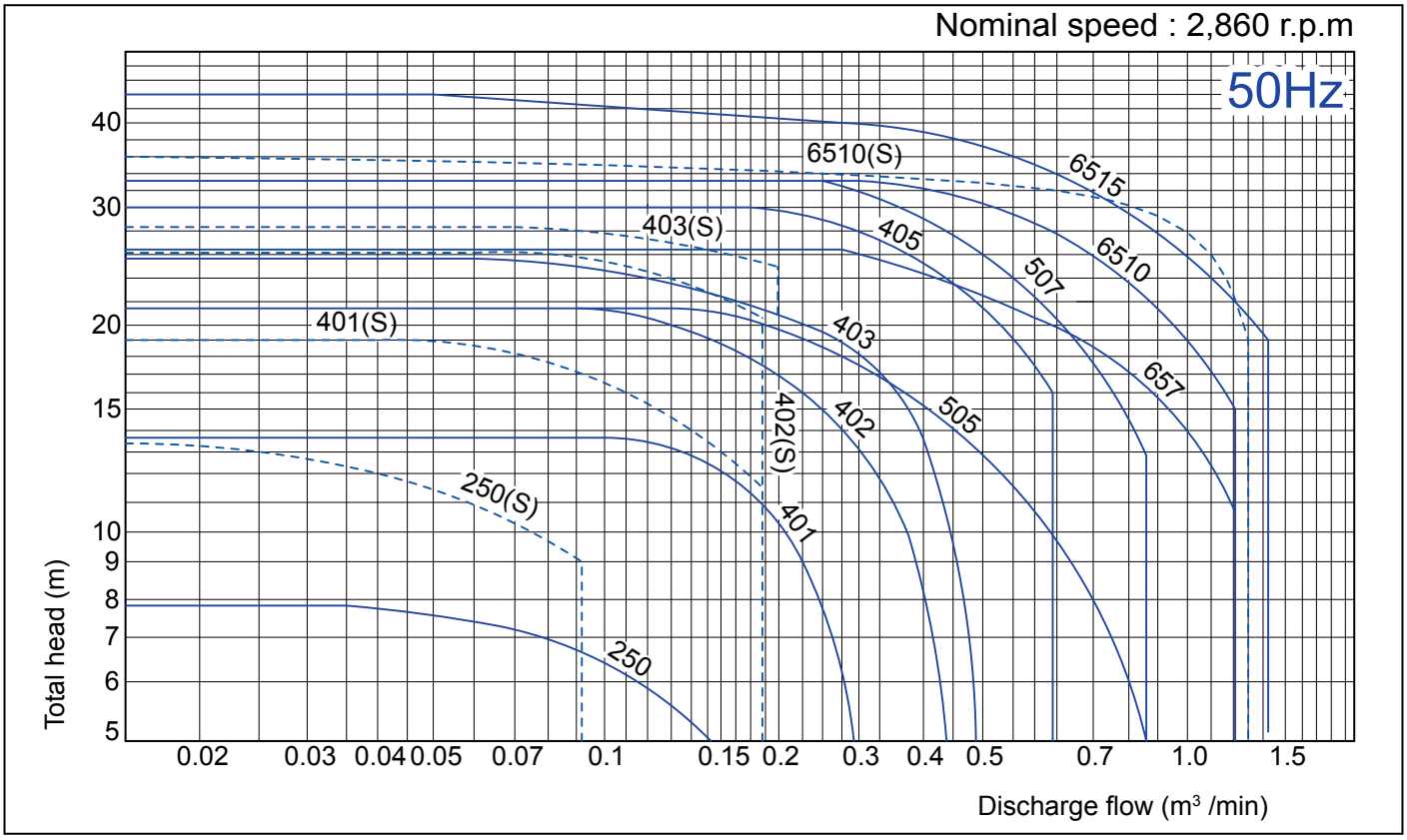
- **400** — Model
- **PW** — Series
- **F** — Bearing
  - F : High density carbon bearing - Ceramic spindle
  - R : Rulon bearing - Ceramic spindle
  - A : Ceramic bearing - Sic/Ceramic spindle
  - Si : Sic bearing - Sic spindle
- **V** — O. Ring
  - V : FKM
  - N : NBR
  - E : EPDM
- **L** — Impeller size
  - S S.G=1.0
  - L S.G=1.2
  - M S.G=1.5
  - H S.G=1.9
- **04** — Motor output
  - 04 : 0.37 kW
  - 07 : 0.75 kW
  - 15 : 1.5 kW
  - 22 : 2.2 kW
  - 37 : 3.7 kW
  - 55 : 5.5 kW
  - 75 : 7.5 kW
  - 110 : 11 kW
  - 150 : 15 kW
- **C** — Required motor
  - Without Indoor use
  - With B Explosion proof
  - C Weather proof

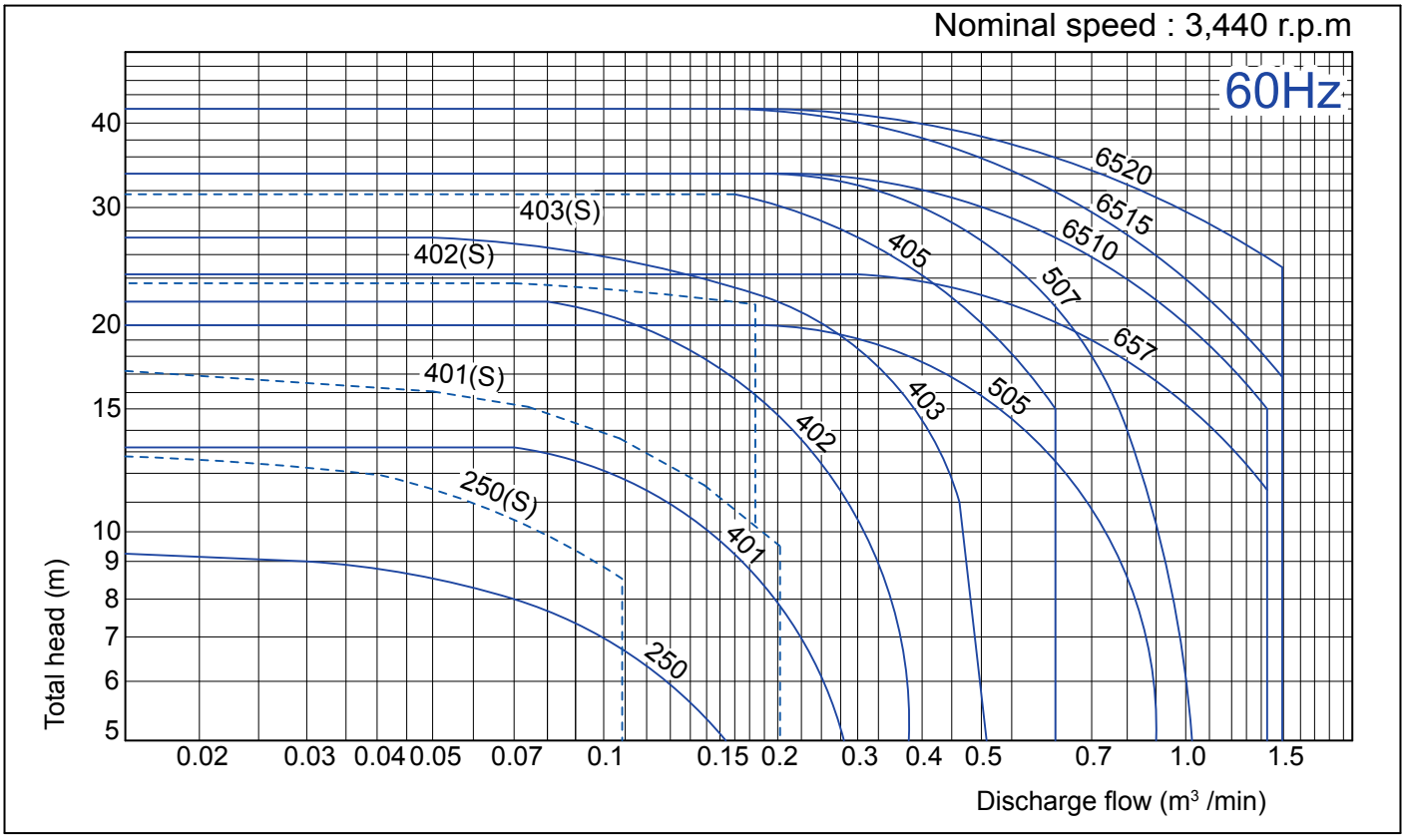
Specification table

Model	Connection method		Pump performance at specified point (m-L/Min)			Motor output (kW)	Net weight (Kg)
	Inlet(mm)	Outlet(mm)	Specific Gravity	50Hz	60Hz		
NH-250PW-C	25	25	1.2	7.0 - 135	6.0 - 145	0.37	30
			1.5	5.8 - 140	5.5 - 135		
			1.9	4.7 - 115	3.9 - 115		
NH-401PW-C	40	40	1.2	9.3 - 200	9.5 - 180	0.75	40
			1.5	7.6 - 190	8.7 - 160		
			1.9	6.4 - 170	6.2 - 140		
NH-402PW-C	50	40	1.2	16.0 - 260	13.1 - 260	1.5	50
			1.5	14.0 - 260	13.2 - 260		
			1.9	11.0 - 240	10.9 - 220		
NH-403PW-C	50	40	1.2	18.0 - 320	17.4 - 320	2.2	58
			1.5	15.0 - 300	13.8 - 320		
			1.9	13.5 - 260	14.5 - 260		
NH-405PW-C	50	40	1.2	25.0 - 380	23.0 - 400	3.7	72
			1.5	22.5 - 350	20.3 - 350		
			1.9	20.0 - 290	15.2 - 400		
NH-505PW-C	65	50	1.2	16.7 - 550	15.5 - 520	3.7	80
			1.5	13.0 - 450	13.0 - 390		
			1.9	10.0 - 400	11.7 - 360		
NH-507PW-C	65	50	1.2	25.7 - 550	27.1 - 500	5.5	112
			1.5	17.3 - 450	15.1 - 500		
			1.9	14.4 - 400	13.7 - 400		
NH-657PW-C	80	50	1.2	19.2 - 800	20.4 - 800	5.5	124
			1.5	15.4 - 650	14.2 - 700		
			1.9	12.5 - 550	10.8 - 600		
NH-6510PW-C	80	50	1.2	24.7 - 950	25.0 - 950	7.5	149
			1.5	20.0 - 800	19.5 - 720		
			1.9	17.0 - 710	15.7 - 710		
NH-6515PW-C	80	50	1.2	32.0 - 1100	28.8 - 900	11	185
			1.5	24.5 - 900	25.0 - 900		
			1.9	19.8 - 800	20.5 - 800		
NH-6520PW-C	80	50	1.2	---	39.0 - 1050	15	185
			1.5	---	24.0 - 1100		
			1.9	---	24.0 - 950		

PW-C Series

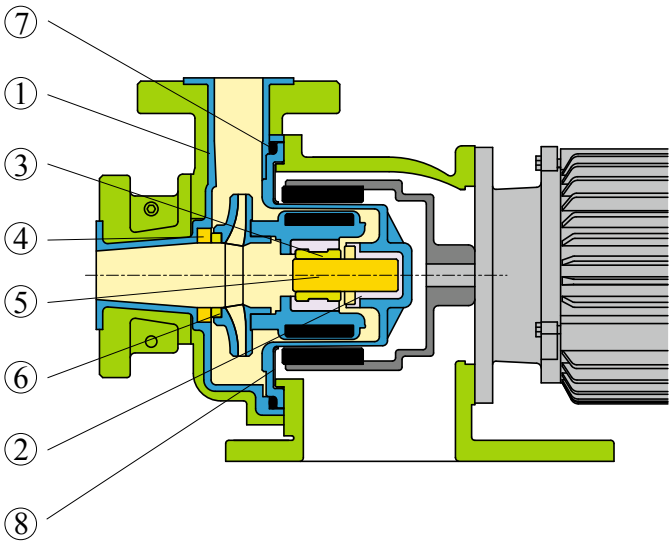
PW-C series performance curve





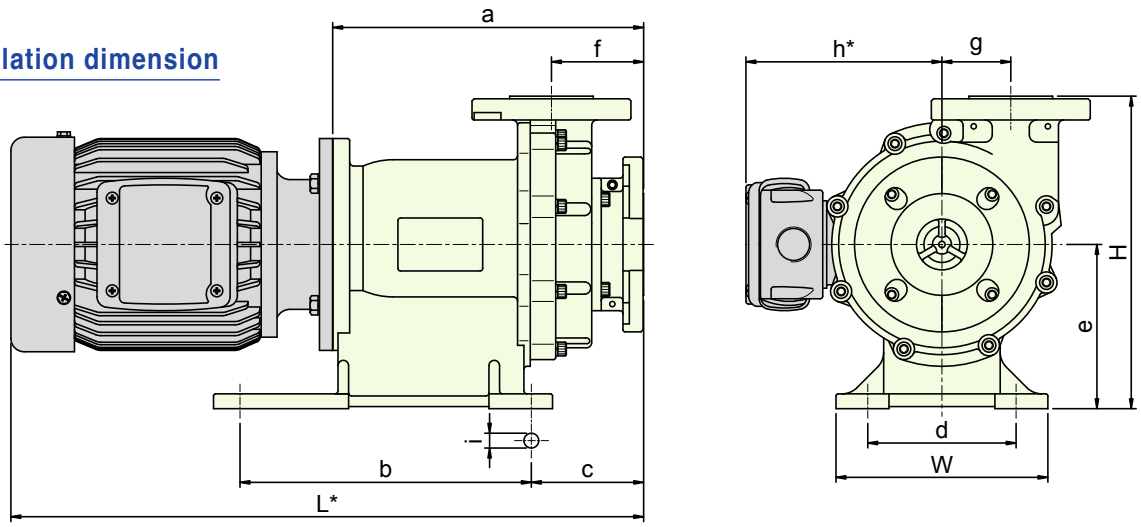
PW-C Series

Parts List



Part name	PW-C Series			
	FV	RV	AV	Si
1. Casing	Carbon fiber reinforced tetra fluorethylene			
2. Holder				
3. Bearing	H.D. Carbon	Rulon	Ceramic	Sic ceramic
4. Thrust pad	High purity Ceramic			
5. Spindle				
6. Mouth ring	PTFE based resin			
7. O ring	FKM			
8. Bracket / Cover	Grey cast iron			

Installation dimension



Dimensions in mm

Model	W	H	L*	a	b	c	d	e	f	g	h*	i
NH-250PW-C	155	237	477	234	146	95	110	115	88	51	146	14
NH-401PW-C	195	275	493	260	250	111	130	135	104.5	57.5	152	14
NH-402PW-C	200	295	574	291	275	106	140	155	87	65	170	14
NH-403PW-C	200	295	574	291	275	106	140	155	87	65	170	14
NH-405PW-C	200	295	678.5	312.5	275	106	140	155	87	65	203	14
NH-505PW-C	260	325	715	349	305	130	210	175	110	62	203	14
NH-507PW-C	260	325	709	369	305	130	210	175	110	62	252	14
NH-657PW-C	280	360	718	378	320	193	220	175	118	0	252	14
NH-6510PW-C	280	360	752	378	320	193	220	175	118	0	252	14
NH-6515PW-C	350	385	912	408	320	193	300	200	118	0	288	14
NH-6520PW-C	350	385	912	408	320	193	300	200	118	0	288	14

Remarks:
1. JIS, ISO, NEMA or explosion motor is available.
2. Over all size & part construction will be changed without notice.
3. NH-657, 6510, 6515, 6520 PW-C are top centre discharge.
*4. * Depending on type of motor used.*

PWX-C Series (ETFE-Lined Metal Profile)

Heavy Duty Magnetic Drive Pumps For The Chemical Industry

- ETFE-lined pumps in cast iron exterior as reinforcement.
- Robust construction.
- 3 models with flow rates up to 1,300 L/Min and discharge head of 44m.
- Can handle practically most chemicals and temperature up to 90°C.
- Adaptable to IEC Standard motor, 5.5 to 11 kW.
- Available in flange connections.

Type indication

N H - 6 5 7 P W X - C - F V - L - 5 5 C

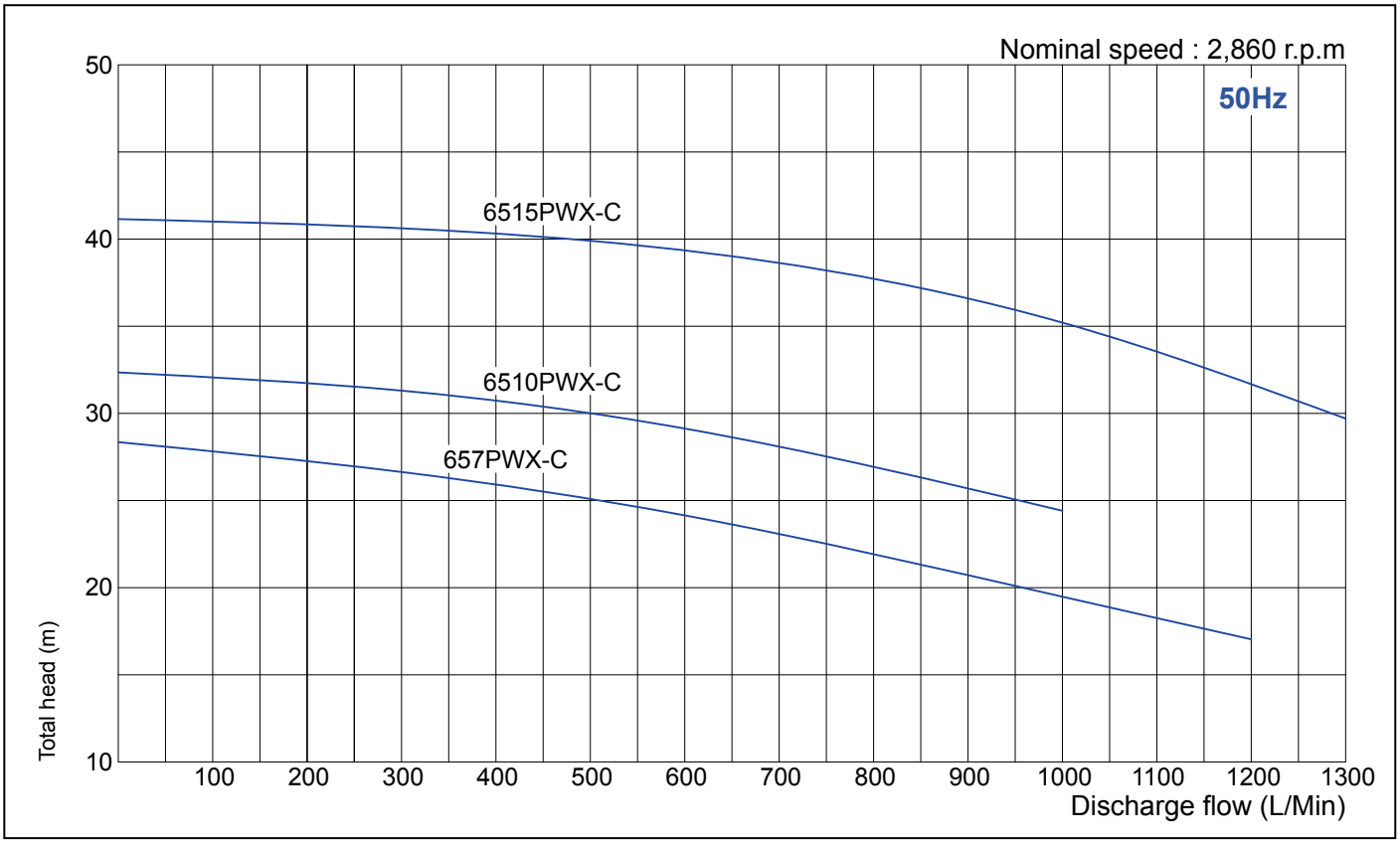
- **Model**
- **Series name**
- **Bearing**
  - F : High density carbon bearing - Ceramic spindle
  - R : Rulon bearing - Ceramic spindle
  - A : Ceramic bearing - Sic/Ceramic spindle
  - Si : Sic bearing - Sic spindle
- **O. Ring**
  - V : FKM
  - N : NBR
  - E : EPDM
- **Impeller**
  - L S.G=1.2
  - M S.G=1.5
  - H S.G=1.9
- **Motor output**
  - 55 : 5.5kW
  - 75 : 7.5kW
  - 110 : 11kW
- **Required motor**
  - Without Inside use
  - With B Explosion proof
  - C Weather proof

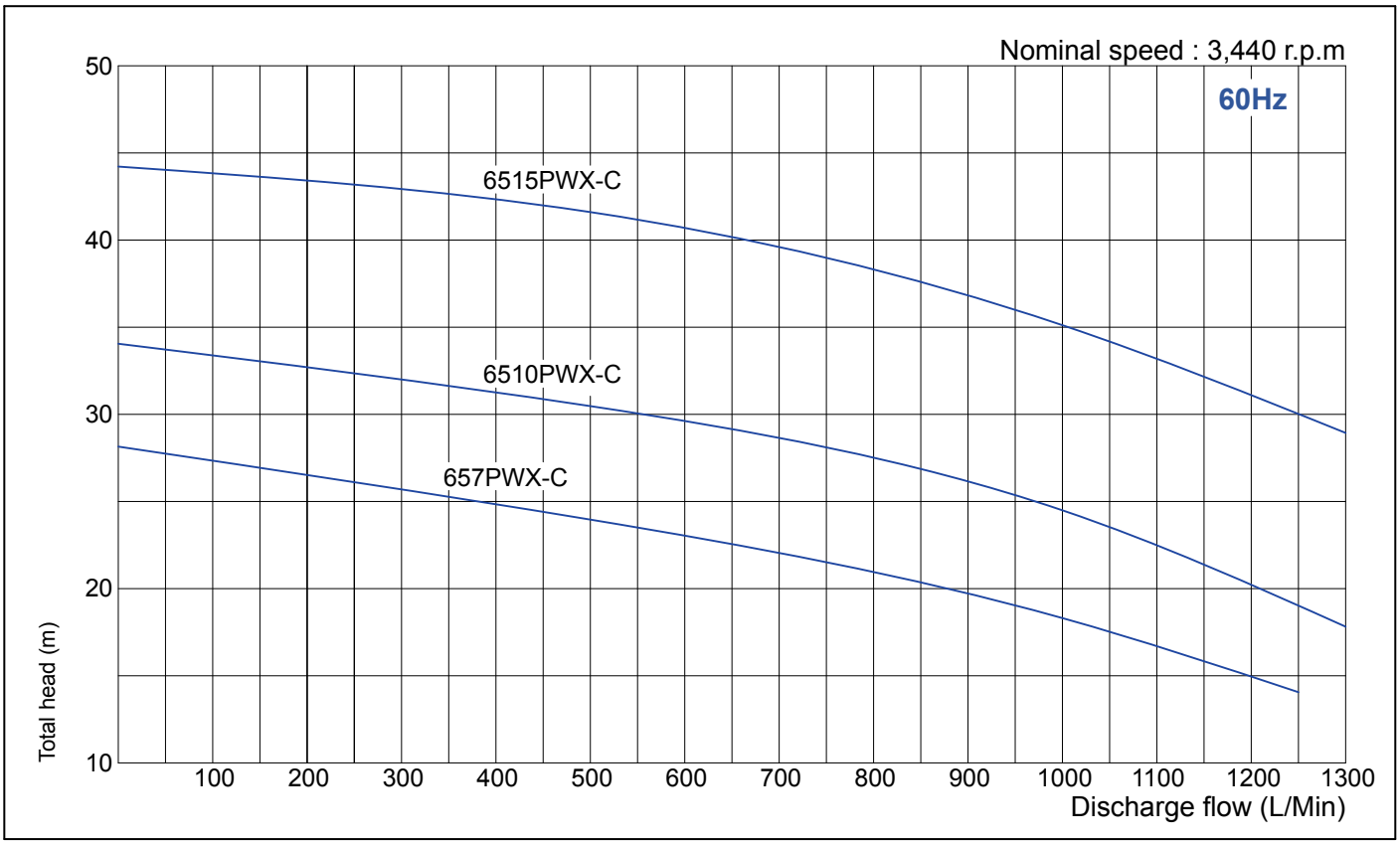
Specification table

Model	Connection method		Pump performance at specified point (m-L/Min)			Applicable Motor Output (kW)	Net weight w/t motor (Kg)
	Inlet(mm)	Outlet(mm)	Specific Gravity	50Hz	60Hz		
NH-657PWX-C	80	50	1.2	23.5 - 650	21.6 - 800	5.5	124
			1.5	20.3 - 650	18.5 - 700		
			1.9	17.5 - 550	---		
NH-6510PWX-C	80	50	1.2	25.0 - 950	25.0 - 950	7.5	149
			1.5	22.7 - 800	22.6 - 800		
			1.9	18.2 - 800	18.1 - 800		
NH-6515PWX-C	80	50	1.2	34.5 - 1100	36.0 - 900	11	185
			1.5	27.0 - 900	30.0 - 900		
			1.9	24.8 - 800	26.0 - 800		

PWX-C Series

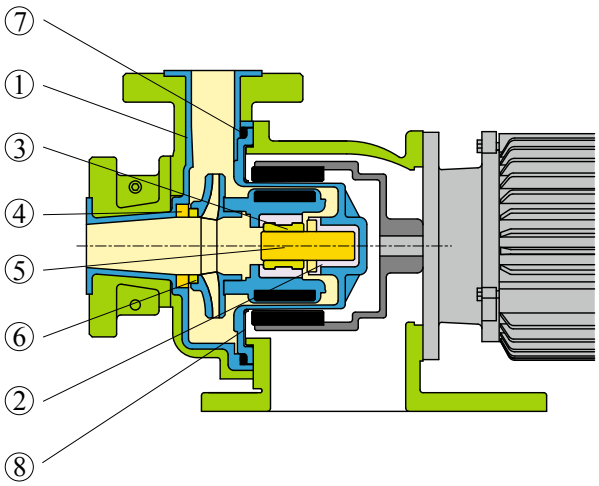
PWX-C series performance curve





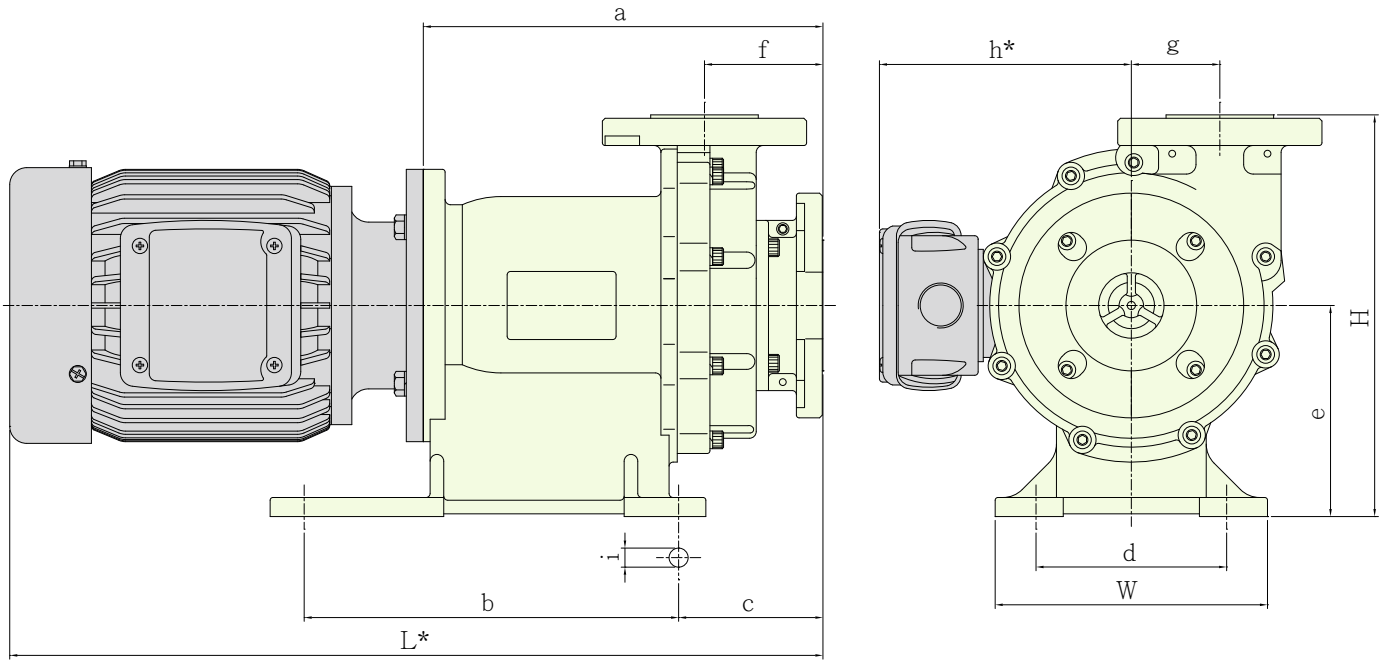
PWX-C Series

Parts List



Part name	PWX-C Series			
	FV	RV	AV	Si
1. Casing	Carbon fiber reinforced tetra fluorethylene			
2. Holder				
3. Bearing	H.D. Carbon	Rulon	Ceramic	Sic ceramic
4. Thrust pad	High purity Ceramic			
5. Spindle				
6. Mouth ring	PTFE based resin			
7. O ring	FKM			
8. Bracket / Cover	Grey cast iron			

Installation dimension



Dimensions in mm

Model	W	H	L*	a	b	c	d	e	f	g	h*	i
NH-657PWX-C	280	360	743	378	320	193	220	175	118	0	252	14
NH-6510PWX-C	280	360	743	378	320	193	220	175	118	0	252	14
NH-6515PWX-C	350	385	918	408	320	193	300	200	118	0	285	14

Remark :
1. JIS, ISO, NEMA or explosion motor is available.
2. Over all size & part construction will be changed without notice.
*3. * Depending on type of motor used.*

PW-XJ Series (ETFE-Lined Metal Profile)

ISO Standard Magnetic Drive Pumps for the Chemical Industry

- ETFE-lined pumps in cast iron exterior as reinforcement.
- Robust construction.
- 5 models with flow rates up to 600 L/Min and discharge head of 77m.
- Can handle practically most chemicals and temperature up to 90°C.
- Adaptable to IEC, JIS, CNS & NEMA-C standard motor, 5.5 to 11 kW.
- Flanges are to ISO-16 Bar standard.

Type indication

N H - 4 0 - 2 0 0 P W - X J - F V - 1 1 0 - C

- 40 — Nominal bore of discharge bore size
- 200 — Nominal impeller diameter
- PW — Series name
- XJ — Combination of abrasion parts
- FV — O. Ring
  - V : FKM
  - N : NBR
  - E : EPDM
  - A : AFLAS
- 110 — Motor output
  - 55 : 5.5kW
  - 75 : 7.5kW
  - 110 : 11kW
- C — Required motor
  - Without Indoor use
  - With B Explosion proof
  - C Weather proof

Specification table

Model	Flange size Inlet × outlet	Max point , 50/60Hz m - L/Min	Duty point , 50/60Hz m - L/Min	Power kW requirement
NH-40-140PW-XJ	ISO-16 Bar 65A × 40A	25 - 600 / 36 - 600	20 - 417 / 31 - 417	3.5 / 5.0
-160PW-XJ		34 - 600 / 48 - 600	29 - 417 / 44 - 417	4.9 / 7.5
-180PW-XJ		44 - 600 / 63 - 600	40 - 417 / 60 - 417	7.5 / 11.0
-200PW-XJ		55 - 600 / 77 - 600	51 - 417 / 75 - 417	9.3 / 13.5
-210PW-XJ		60 - 600 / ---	53 - 417 / ---	10.5 / ----

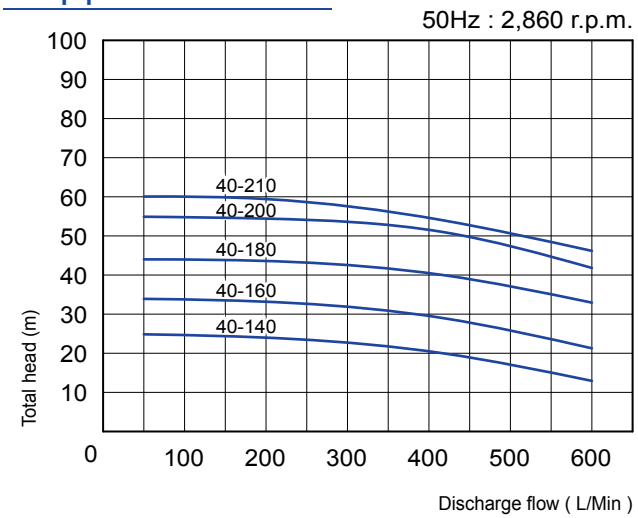
Allowable S.G. and required motor output

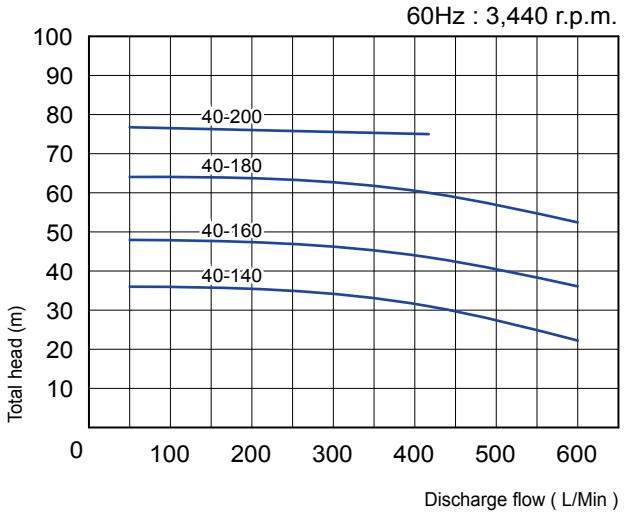
Model	S.G : 1.0	S.G : 1.2	S.G : 1.5	S.G : 1.9
NH-40-140PW-XJ-□□-□-55-□	5.5kW	5.5kW	7.5kW	11 kW
NH-40-160PW-XJ-□□-□-75-□	7.5kW	7.5kW	11 kW	*11 kW
NH-40-180PW-XJ-□□-□-75-□	7.5kW	11 kW	11 kW	*11 kW
NH-40-200PW-XJ-□□-□-110-□	11 kW	11 kW	*11 kW	*11 kW
NH-40-210PW-XJ-□□-□-110-□	11 kW	11 kW	*11 kW	*11 kW

*Note : 1.Pump mode with *mark requires trimming impeller diameter according to specific gravity, viscosity and applicable motor.*

2.In case of pump performance curve at 60Hz according each specific, diameter of impeller should be trimmed.

Pump performance curve





PH Series (Glass Fiber reinforced PPS)

1.5-11kW, Max spec.point: T.D.H. 70m at 540 L/Min

Single Stage And Multi Stage Compact Magnetic Driven Pump

- Pumps available up to 2 stages.
- Precision injection parts.
- Flow rate up to 540 L/Min and discharge head to 70m.
- Suitable for P.C.B. machine, Filtration, Etching Machine.
- Applicable IEC motor from 1.5 to 11kw (Also NEMA-C face motor is available).
- Can handle most chemicals up to 70°C.
- Available in BS thread, NPT thread and flange.

Type indication

N H - 3 0 1 2 P H - C V - G - 0 7 C - 0 5

- Model
- Series
- Combination of abrasion parts
  - CV : Carbon bearing * Ceramic spindle * FKM O ring
  - S i : Sic bearing * Sic spindle * FKM O ring
- Pipe connection
  - G : BS thread
  - N : NPT thread
  - F : Flange
- Motor output
  - 07 : 0.75 kW
  - 15 : 1.5 kW
  - 22 : 2.2 kW
  - 37 : 3.7 kW
  - 55 : 5.5 kW
  - 75 : 7.5 kW
  - 110 : 11 kW
- Required motor
  - Without Indoor use
  - With B Explosion proof
  - C Weather proof
- Frequency
  - 5 : 50Hz
  - 6 : 60Hz

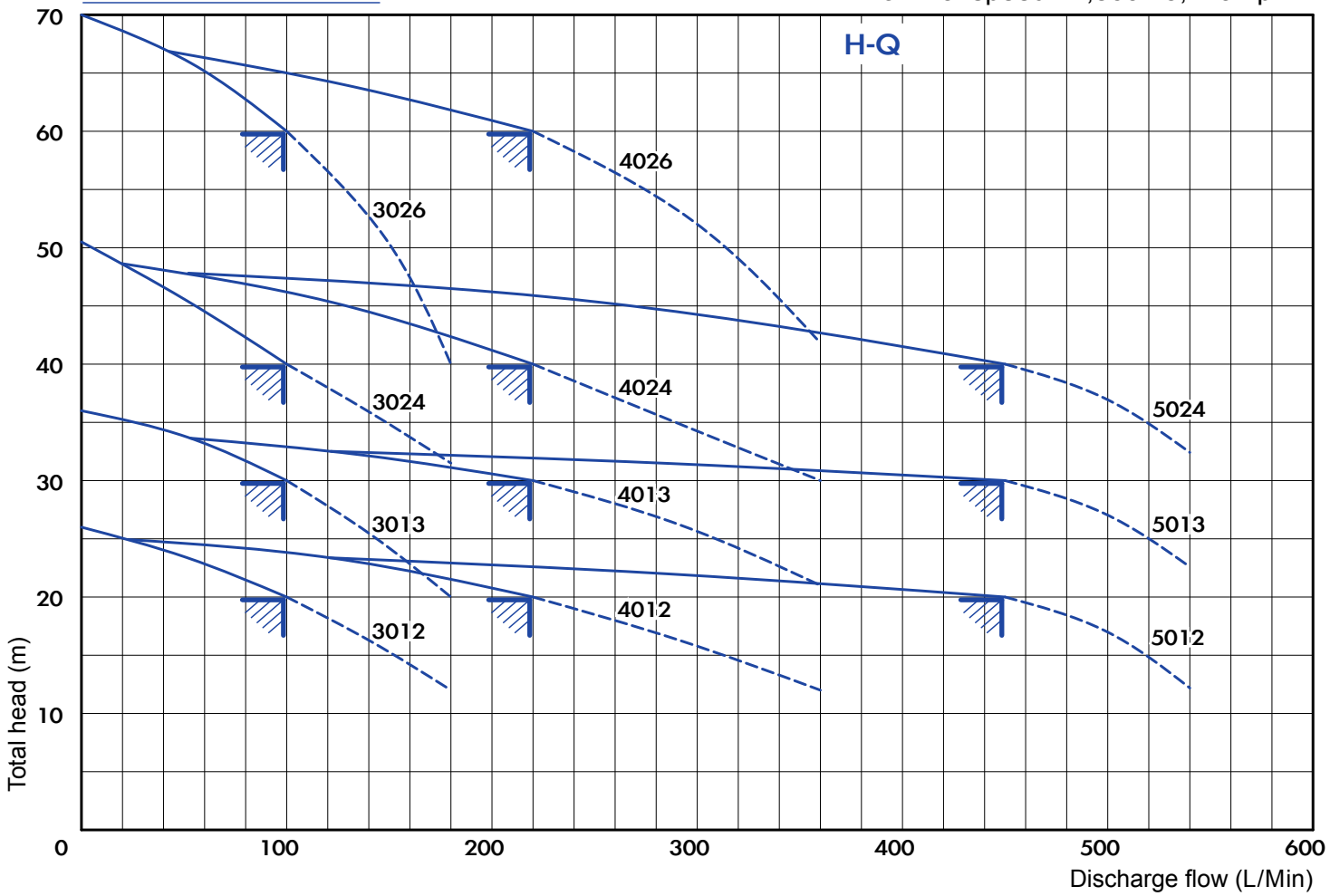
Specification table

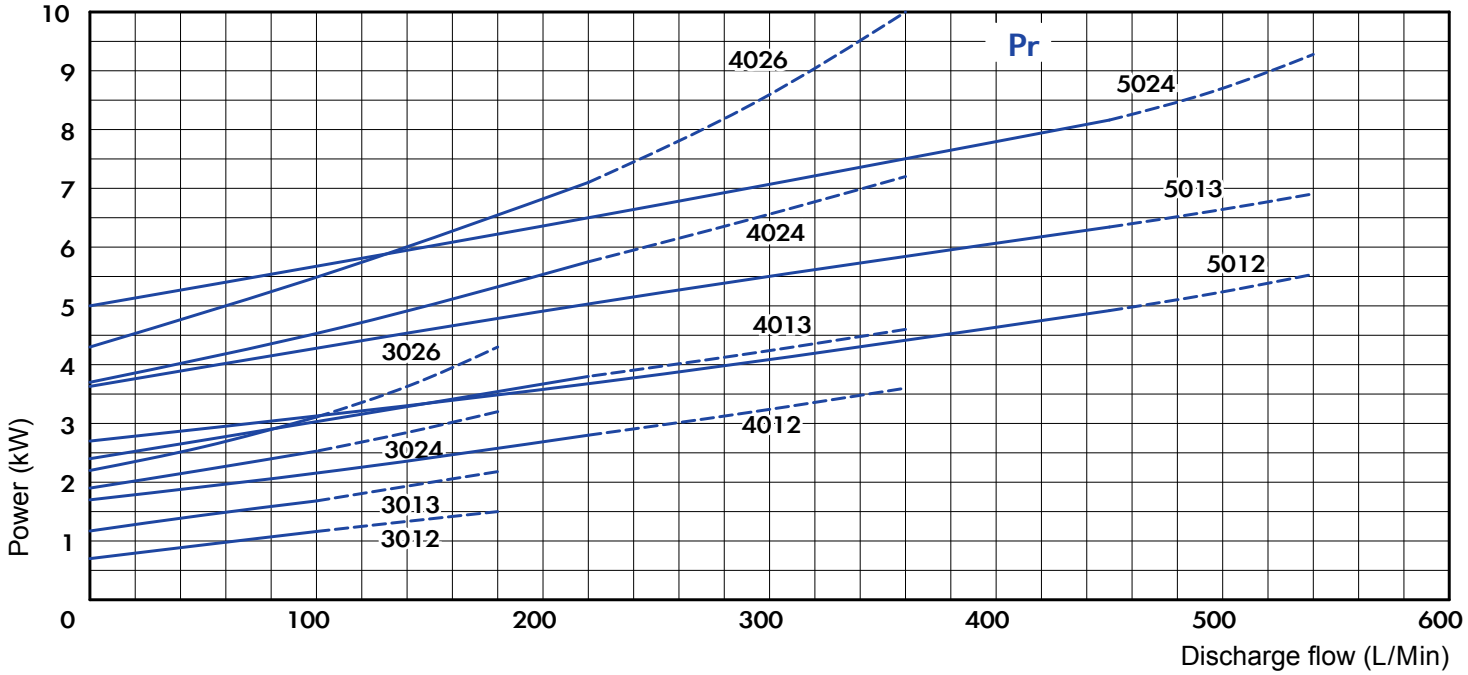
Model	Pipe connection	Pump performance		motor kW at L/Min discharge flow	Applicable motor (kW)		
	Inlet × outlet (mm)	Max. point m-L/Min	Specified point m-L/Min		S.G. 1.0	S.G. 1.3	S.G. 1.5
NH-3012PH	40 × 25	26 - 180	20 - 100	at 100	1.5	1.5	2.2
NH-3013PH		36 - 180	30 - 100		2.2	2.2	3.7
NH-3024PH		51 - 180	40 - 100		3.7	3.7	5.5
NH-3026PH		70 - 180	60 - 100		3.7	5.5	5.5
NH-4012PH	50 × 40	25 - 360	20 - 220	at 220	2.2	3.7	5.5
NH-4013PH		34 - 360	30 - 220		3.7	5.5	7.5
NH-4024PH		49 - 360	40 - 220		5.5	7.5	11
NH-4026PH		68 - 360	60 - 220		7.5	11	11
NH-5012PH	65 × 50	24 - 540	20 - 450	at 450	3.7	5.5	7.5
NH-5013PH		33 - 540	30 - 450		5.5	7.5	11
NH-5024PH		48 - 540	40 - 450		7.5	11	11

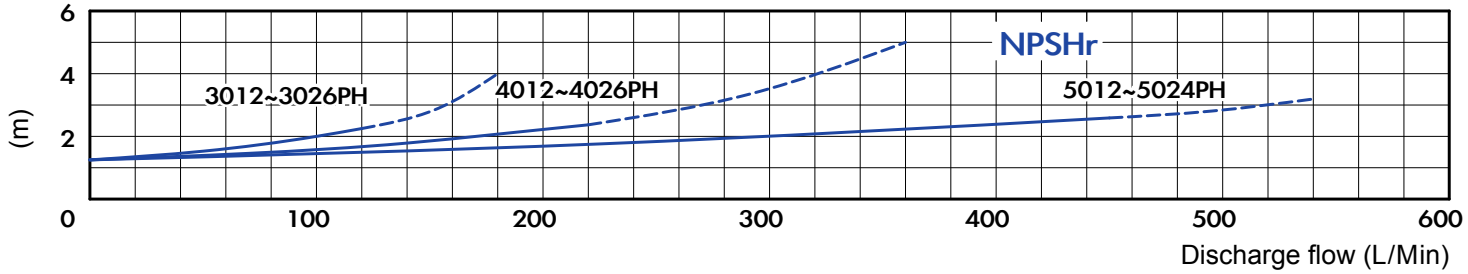
PH Series

Pump performance curve

Nominal speed : 2,860 / 3,440 r.p.m.







PG Series (ISO-5199 Co-Ni-mo Steel)

Magnetic Drive Pumps

- SUS-316 and Sic wetted-end, magnetic drive pump in compliance with ISO/JIS Standard.
- 14 models with flow rates up to 550 L/Min and discharge head up to 60m.
- Suitable applications include pharmaceutical, reactor, and all types of solvent and alkaline.
- Modular construction of models to minimise parts.
- Applicable motors. IEC, JEM, CNS & NEMA-C, from 2.2 to 15kW.
- Flanges are to ISO, JIS, CNS & ANSI standard.

Specification table

50/60Hz

Model	Flange size Inlet × outlet	Max point (m-L/Min)	Duty point (m-L/Min)	Power requirement at duty point. (kW)
NH-32-100PG	50 × 32	15/19 - 300	12/15 - 215	2.2 / 4.2
NH-32-120PG	50 × 32	20/26 - 300	15/20 - 215	2.5 / 5.5
NH-32-140PG	50 × 32	27/35 - 300	20/27 - 215	3.1 / 7.3
NH-32-160PG	50 × 32	34/46 - 300	32/43 - 215	4.0 / 9.4
NH-32-180PG	50 × 32	43/58 - 300	41/50 - 215	5.9 / 11
NH-32-200PG	50 × 32	54/-- - 300	50/66 - 215	6.7 / ---
NH-32-210PG	50 × 32	60/-- - 300	55/71 - 215	7.5 / ---
NH-40-100PG	65 × 40	16/18 - 550	12/15 - 430	3.6 / 4.7
NH-40-120PG	65 × 40	21/25 - 550	15/19 - 430	4.4 / 6.5
NH-40-140PG	65 × 40	28/35 - 550	20/27 - 430	5.2 / 8.5
NH-40-160PG	65 × 40	35/47 - 550	32/42 - 430	6.1 / 10.1
NH-40-180PG	65 × 40	48/-- - 550	40/52 - 430	7.6 / ---
NH-40-200PG	65 × 40	55/-- - 550	50/65 - 430	8.6 / ---
NH-40-210PG	65 × 40	60/-- - 550	55/70 - 430	9.4 / ---

Allowable S.G. and required motor output

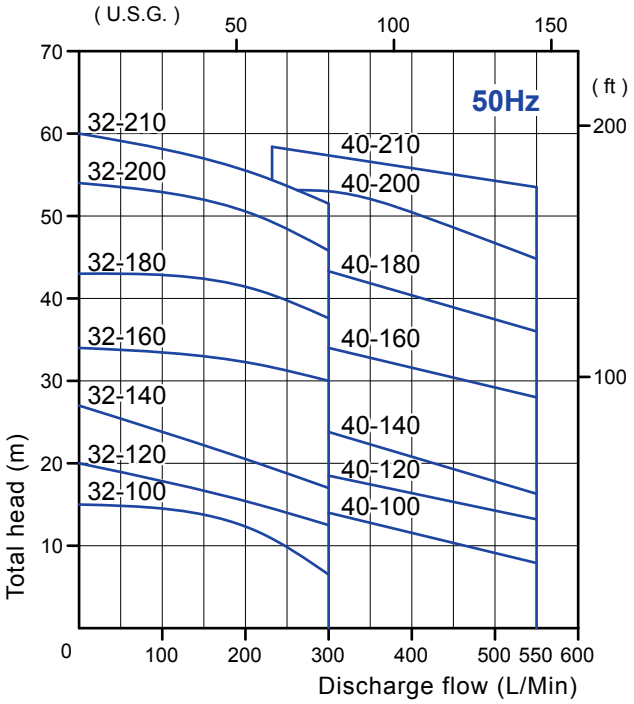
50/60Hz

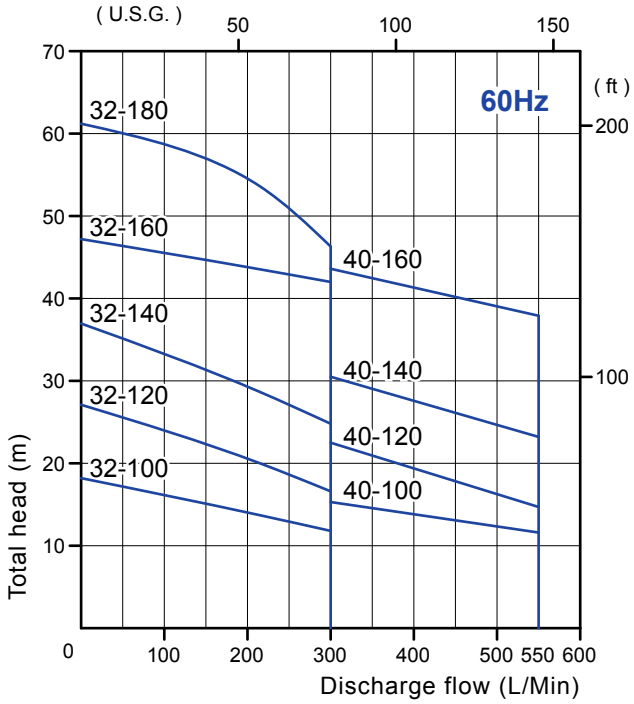
Model	S.G:1.0	S.G:1.2	S.G:1.5	S.G:1.9
NH-32-100PG	2.2 / 5.5	3.7 / 5.5	3.7 / 7.5	3.7 / 11
NH-32-120PG	3.7 / 5.5	3.7 / 7.5	5.5 / 11	5.5 / 11
NH-32-140PG	3.7 / 5.5	3.7 / 11	5.5 / 11	7.5 / 11
NH-32-160PG	5.5 / 11	5.5 / 11	7.5 / 11	7.5 / *15
NH-32-180PG	7.5 / 11	7.5 / *15	11 / *15	*11 / ---
NH-32-200PG	7.5 / ---	7.5 / ---	11 / ---	--- / ---
NH-32-210PG	7.5 / ---	11 / ---	*11 / ---	--- / ---
NH-40-100PG	3.7 / 5.5	5.5 / 7.5	5.5 / 7.5	7.5 / 11
NH-40-120PG	5.5 / 7.5	5.5 / 11	7.5 / 11	11 / 11
NH-40-140PG	7.5 / 11	7.5 / 11	7.5 / 11	11 / *15
NH-40-160PG	7.5 / 11	7.5 / 11	7.5 / *15	*11 / ---
NH-40-180PG	11 / *15	11 / *15	*11 / ---	--- / ---
NH-40-200PG	11 / ---	11 / ---	--- / ---	--- / ---
NH-40-210PG	11 / ---	*11 / ---	--- / ---	--- / ---

*Note:Pump mode with *mark requires trimming impeller diameter according to specific gravity, viscosity and applicable motor.*

---means that operation is not available.

Pump performance curve





PM-V Series (PPS)
PM-V-F Series (ETFE)

Multistage Magnetic Drive Pumps (Vertical Inline)

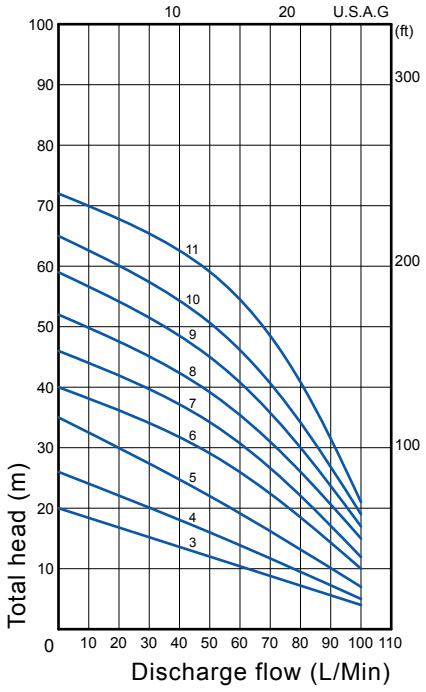
- The world first multistage magnetic drive pump in PPS & ETFE material.
- Precision injection part, glass fiber-reinforced PPS and ETFE.
- Pumps available from 3 to 11 stages.
- Flow rates up to 100 L/Min and discharge head to 88m.
- Applicable motors, IEC 0.37 to 2.2kW.

PM-E Series (PPS)
PM-E-F Series (ETFE)

Multistage Magnetic Drive Pumps (Semi-Submersible End-suction)

- The world first multistage magnetic drive pump in PPS & ETFE material.
- Precision injection part, glass fiber-reinforced PPS and ETFE.
- Pumps available from 3 to 11 stages.
- Flow rates up to 100 L/Min and discharge head to 88m.
- Applicable motors, IEC 0.37 to 2.2kW.

Expected performance curve



Specification table

Model	Connection method Inlet × outlet	Max total head-max discharge (m-L/Min)	Applicable IEC motor (kW)	Net Weight (Kg)
NH-250PM-3	NPT 1"(Thread) 25 x 25 mm(Union) 25 x 25 A(Flange)	20 - 100	0.37	9.5
NH-250PM-4		27 - 100	0.37	10.5
NH-250PM-5		35.5 - 100	0.75	13
NH-250PM-6		44.5 - 100	1.5	13.5
NH-250PM-7		53 - 100	1.5	14
NH-250PM-8		62 - 100	1.5	14.5
NH-250PM-9		71.5 - 100	1.5	15
NH-250PM-10		80 - 100	2.2	15.5
NH-250PM-11		88 - 100	2.2	16.5

Note:Power requirement/motor is determined by S.G,viscosity and number of impellers.

PA-S Series
Chemical Stirrers

- Available in ECTFE or SUS316 wetted-end material.
- Flange connection for tank top mounting.
- Standard length of 490mm, 690mm and 890mm.
- Driven by 20w/1400rpm TELC motor.

Type indication

N H - P A - S - 3 - P - 4

- Series name
- Model
- Wetted end
  - P : ECTFE coated
  - S : SUS-316
- Lenght
  - 4 : 490mm
  - 6 : 690mm
  - 8 : 890mm

PD Series
Pan World Dry Running Protector

- Compact design.
- Two integral current transformers.
- Wide range current adjustment.
- Definite trip time characteristic.
- Manual (instantaneous)/Electric (remote) reset.
- Easy maintenance.

Specification table

Model	PD-05	PD-30	PD-60
Current range	0.5 - 5A	3.0 - 30A	5.0 - 60A
Trip time setting	0.2 - 30 sec.		
Power supply	3 phase 220V AC		
Output relay	3A 250V AC		

Type indication

N H - P D - 0 5 - 2 2 0

- Series
- Operation current : 05 : 0.5-5A, 30 : 3.0-30A, 60 : 5.0-60A
- Supply voltage

Areas of Application

Series	PI-Z-D/PI-X-D PX/PX-D/PS	PI-Z-D-F/PI-X-D-F PX-N/PX-N-D/PX-F PX-F-D/PS-F/PS-K	PWE/PWH/PW PS-N/PW-N PS-N-K/PW-N-K	PWE-F/PWH-F PW-F/PW-K	PWX-C PW-C/PW-XJ	PH PM-V PM-E	PA-S	PG
Classification	Magnetic pump	Magnetic pump	Magnetic pump	Magnetic pump	Magnetic pump	Magnetic pump	Mixer	Magnetic pump
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			*	*	*	*		*
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	*							

PAN WORLD GROUP OF COMPANIES

Pan World Co., Ltd. (Japan)

TPW, Hong Yuan Co., Ltd. (Taiwan)
ISO9001 Certified

Jen Fu Technology Inc. (Taiwan)

Dong Nam Engineering
PW Co, Ltd (Korea)

Shenzhen Rongchao Industry Co., Ltd.
(Guangzhou, China)

Shinfu Mechanical Co., Ltd. (China)

Pan World Rep. Office (U.S.A)

Magnetic Panworld Pumps Trading (Philippines)

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Specifications are subjected to changes without prior notice.

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