PMD Magnetic coupling type RoHS

PMD-0531 PMD-221 PMD-371 PMD-421 PMD-581 PMD-643 PMD-1561 PMD-1563 PMD-2571 PMD-2573 PMD-2573 PMD-4033 PMD-7533 PMD-7533 PMD-15013A-E3

PMD-37013A-E3

Magnetic Drive Pumps (for chemical and seawater)



PMD-15013A-E3

PMD-37013A-E3

■ Characteristics

·High performance and energy saving

Compared to the conventional products, the pump efficiency increased by 35%. This type became smaller, lighter, 5-dB quieter and 50% reduction in vibration.

PMD-7533

Long-life and no liquid leakage

There is no liquid leakage due to no shaft seal part, As made of resin, this type is appropriate for transporting highly-corrosive special liquid.

·Complete no liquid leakage

This type is seal-less pumps based on the magnet coupling system. The pump section will never have liquid leakage, corrosion, dirt around the pump and troublesome mechanical seal replacement.

Application

·Circulation of sea water, culture tank and water tank, etc.

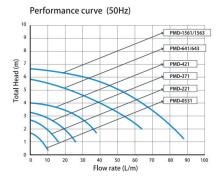
PMD-2571

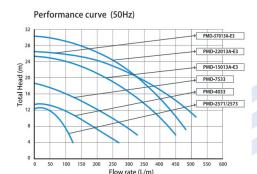
- •Drain chemical liquid, transfer of chemical liquid, etc.
- •Waste water treatment equipment, Aquarium equipment, PCB equipment, Solar heating system, Filter, Bubble bath, Etching equipment, Printing equipment, Chillers, Cooling of NC machine, Ice maker, etc.

Caution

- Chemical resistance must be verified before using the products by checking whether an intended purpose can be achieved with a preliminary test, etc.
- In order to use cold water, apply lagging materilas and/or heat-insulating materials as measusre againts dew condensation if necessary.

■ Performance Curve





■ Excellent charactistics

Front-casing

- Hose-connection and screw-connection type.
- Integral molding by polypropylene mixed with filler to increase mechanical strength.
- Simple and compact connection to piping.
- Straight screw according to diameter as standard.

Impeller • Material is PP and permanent magnet is contained inside.

- PTFE bearing is inserted between impeller is open or closed or semi-closed type, depending on performance characteristics.
- depending on performance characteristics.

Back casing

 Integral molding by polypropylene or PPE as well as front-casing.

Bearing

Drive magnet

 Made of permanent magnet magnetized from 6 poles to 10 poles. Impeller is rotated by magnet form outside of back casing.

Corrosion resistance Table

Fluid	Criterion
Sodium hypochlorite	Up to 5 ppm of concentration
Caustic soda	Up to 5 % of concentration
Hydrochloric acid	Up to 30 % of concentration
Sulfuric acid	Up to 10 % of concentration
Citric acid	Up to 15 % of concentration

■ The above corrosion resistance table shows the standards when a fluid temperature is normal (0~40°C).

Part name and material

Material of water contact part

material of fracer contact part							
Part name Classification	2						
Casing	PP(with glass)						
Impeller	PP(with glass)						
Pump shaft	Alumina ceramics						
Thrust block	Alumina ceramics						
Pump bearing	PTFE						
O-ring	FKM						



Magnetic Drive Pumps (for chemical and seawater)

■ Specification

TYPF I

			Motor		Dian	neter	5	0Hz	60Hz	
Model	Rated output			Frequency	Hose	Screw	Total head	Rated flow rate	Total head	Rated flow rate
	W(50Hz/60Hz)	Ф	V	Hz	mm	inch	m	L/min	m -	L/min
PMD-0531	18	Single	220	50	14		1 • 0.7	6 • 8	= =	
PMD-221	10/15	Single	220, 220-240	50/60	14	-	2 • 1	6 • 13	3 • 2	6 · 13
	10/15	Single	220, 220-240	50/60		G3/4	2 • 1	6 • 13	3 • 2	6 • 13
	10/15	Single	110	50/60	14	-	2 • 1	6 • 13	3 • 2	6 • 13
	15/20	Single	220, 220-240	50/60	17	-	2 • 1.5	18 • 22	3 • 2	19 - 26
PMD-371	15/20	Single	220, 220-240	50/60	1-1	G3/4	2 • 1.5	18 • 22	3 • 2	19 • 26
11110 371	15/20	Single	110	50/60	17	-	2 1.5	18 • 22	3 • 2	19 • 26
	15/20	Single	110	50/60	-	G3/4	2 • 1.5	18 • 22	3 • 2	19 • 26
	35/45	Single	220, 220-240	50/60	20	1-	3 • 2	21 • 30	4 • 3	26 • 35
PMD-421	35/45	Single	220, 220-240	50/60	320	G3/4	3 • 2	21 • 30	4 • 3	26 • 35
	35/45	Single	110	50/60	(=)	G3/4	3 • 2	21 • 30	4 • 3	26 • 35
PMD-581	40/60	Single	220, 220-240	50/60	20	120	4 • 3	23 • 35	6 • 5	23 • 35
PWD-381	40/60	Single	220, 220-240	50/60	-	G3/4	4 • 3	23 • 35	6 • 5	23 • 35
	65/100	Single	110(220)	50/60	26	-	5 • 3	23 • 50	7 • 5	25 • 50
DMD 641	65/100	Single	110(220)	50/60	-	G1	5 • 3	23 • 50	7 • 5	25 • 50
PMD-641	65/100	Single	220, 220-240	50/60	26.5		5 • 3	23 • 50	7 • 5	25 • 50
	65/100	Single	220-240	50/60	-	G1	5 • 3	23 • 50	7 • 5	25 • 50
	65/100	Three	380-400-415	50/60	-	G1	4 • 3	34 • 46	6 • 5	35 • 48
PMD-643	65/100	Three	220(380)	50/60	26	-	5 • 3	23 • 50	7 • 5	25 • 50
	65/100	Three	220(380)	50/60	=	G1	5 • 3	23 • 50	7 • 5	25 • 50
	120/160	Single	110(220)	50/60	26		5.5 • 4	40 • 60	8 • 6	40 • 63
	120/160	Single	110(220)	50/60		G1	5.5 • 4	40 • 60	8 • 6	40 • 63
PMD-1561	120/160	Single	220, 220-240	50/60	26.5	-	5.5 • 4	40 • 60	8 • 6	40 • 63
	120/160	Single	220-240	50/60	(2)	G1	5.5 • 4	40 • 60	8 - 6	40 • 63
	120/160	Three	380 • 400 • 415	50/60	-	G1	5 • 4	42 • 56	7 • 5	50 • 72
PMD-1563	120/160	Three	220(380)	50/60	26	1=1	5.5 • 4	45 • 64	8 • 6	45 • 70
	120/160	Three	220(380)	50/60	120	G1	5.5 • 4	45 • 64	8 • 6	45 • 70
	250	Single	220, 220-240	50	26,5	1-	10 • 8	50 • 75	-	-
	250	Single	220-240	50		G1	10 • 8	50 • 75	-	-
PMD-2571	250	Single	110(220)	60	26,5	-	-	-	10 • 8	55 • 80
	250	Single	110(220)	60	_	G1	-	-	10 • 8	55 • 80
	250	Single	220	60	26.5			-	10 • 8	45 • 70
	250	Three	380 • 400 • 415	50	26.5	-	10 • 8	70 • 95	-	-
	250	Three	380 • 400 • 415	50	-	G1	10 • 8	70 • 95	-	-
PMD-2573	250	Three	220(380)	50	26,5	-	10 • 8	70 • 95		-
	250	Three	220(380)	50		G1	10 • 8	70 • 95	-	-
	400	Three	380, 380-415	50	-	G1 1/2	10 • 6	130 - 230		-
PMD-4033	400	Three	380	50		G1 1/2	10 • 6	120 • 200		_
. MD-7033	400	Three	380-415	60		G1 1/2	- 10	.20 200	10 • 6	140 • 240
	750	Three	380-415	50	-	G1 1/2 G1 1/2	15 • 12	130 • 210	-	140 • 240
PMD-7533	750	Three	380	50	_	G1 1/2	14 • 10	135 • 230	_	
FMID-/333							14 • 10	135 • 230		155 - 005
	750	Three	380-415	60	-	G1 1/2	-	_	15 • 12	155 • 22

TYPE II

			Motor			5	0Hz	60Hz	
Model	Rated output	Phase	Rated voltage	Frequency	Diameter*	Total head	Rated flow rate	Total head	Rated flow rate
	W(50Hz/60Hz)	Ф	٧	Hz		m	L/min	m – L/min	
PMD-15013A-E3	1500	Three	380-400-415	50	JIS 10K • Flange 50A × 40A	20.5 • 9.5	120 · 355	-	-
PMD-22013A-E3	2200	Three	380-400-415	50	JIS 10K • Flange 50A × 40A	25 • 13.5	120 · 360	-	-
PMD-37013A-E3	3700	Three	380 • 400 • 415	50	JIS 10K • Flange 50A × 40A	19.2 • 14.8	250 • 360	-	-

- Conditions of liquids: ambient Temp: 0~60°C Viscosity: below 30mil/s Specific gravity: below 1.1
- (1) Slurry liquids reduce life of pump. (2) Allowable primary side pressure: Less than 100kpa. (3) Indoor use. (4) Shock pressure and abnomal pressure etc will damage the pump part. (5) Voltage can be adjusted to customer's requirement.
- *A phase flange, flange packing, and the mounting bolt doesn't come with the products.
- Please purchase the optional flange sets (sell separately), or, please find commercially avail able product (JIS 10K product).
- Please contact Sanso for any custom spec. power supply needed.

coupling type ROHS

PMD-111 PMD-121 PMD-521 PMD-1521 PMD-1523

Magnetic Drive Pumps (for hot water)



PMD-111

PMD-521

PMD-1521

PMD-1523

■ Characteristics

·No shaft seal part, no leakage

Since this type is small-sized but with high head water (high pressure), this pump economically generates sufficient discharge rate even against higher pipe resistance.

Caution

- In order to use cold water, apply lagging materilas and/or heat-insulating materials as measusre againts dew condensation if necessary.
- [Deteriorated unfrozen-liquid] and [unfrozen liquid of viscosity increase at the low temperature] might damage the pump.

■ Part name and material

(Note 1) Material of water contact part

Classification Part name	2					
Casing	PPE (with glass)					
Impeller	PPE (with glass)					
Pump shaft	Alumina ceramics					
Thrust block	Alumina ceramics					
Pump bearing	Carbon					
O-ring	EPDM					

■ Specification

PMD - Hot water

		Motor					Diameter		50Hz		60Hz	
	Model	Rated output	Phase	Rated voltage	Frequency	Hose	Screw	Total head	Rated flow rate	Total head	Rated flow rate	
		W(50Hz/60Hz)	Ф	V	Hz	mm	inch	m	L/min	m -	L/min	
	PMD-111	10/15	Single	220	50/60	14	1=	2.5(MAX)	16(MAX)	3.5(MAX)	19(MAX)	
		10	Single	240	50	14	-	2.5(MAX)	16(MAX)	-	-	
	PMD-121	10/15	Single 220		50/60	14	-	4.2	13	5.5	15	
	PMD-521	40/50	Single	110, 220	50/60	-	G1/2	8.5	14	11	15	
	PMD-1521	0-1521 85/150 Single 110/220, 220		50/60	20	G3/4	14.5	34.5	19.8	38		
	PMD-1523	100/150	Three	220/380	50/60	20	G3/4	14.5	34.5	19.8	38	

- Ambient Temp : 0~40°C Liquid Temp : 0~90°C
- Some models con be used at -20°C.
- Contact us, In case of possible condensation, take measures. ■ Slurry solutions will harm the life of pump. Max viscosity: 30mm/s
- Specific gravity: Less than 1.1
- Allowable primary side pressure : Less than 100kpa.
- Site : For indoor use
- Abnormal pressure and shock might damage the pump. ■ Please contact Sanso for any custom spec. power supply needed.