

DIMENSIONS

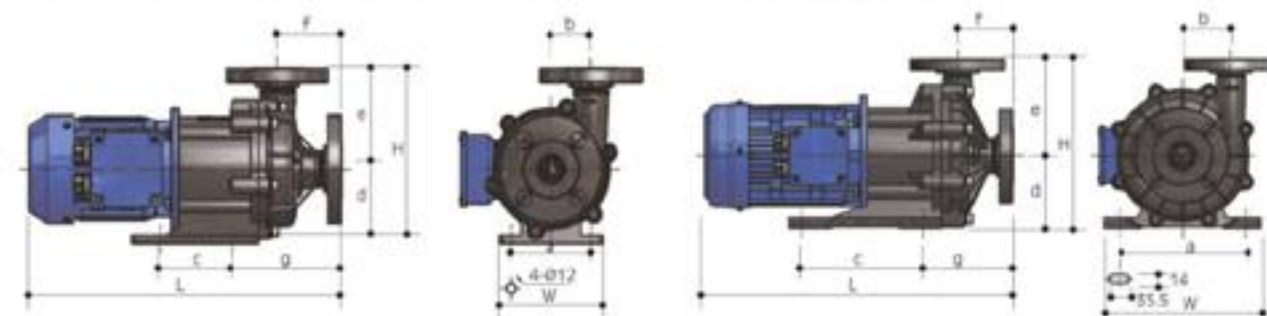
MAGNETIC DRIVE PUMP MPX/MPH/MP SERIES

MPX/MPH SERIES

DIMENSIONS

MPX-250 / MPX-251 / MPX-440 / MPX-441

MPX-452 / MPX-453

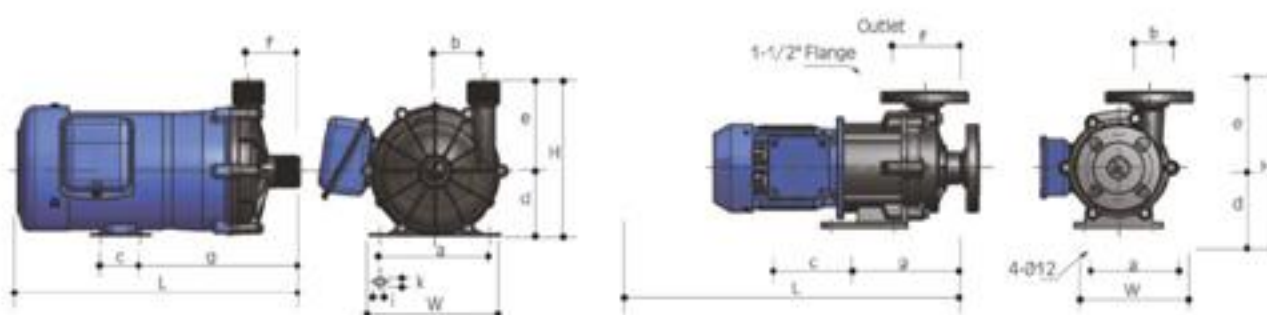


Model	W	H	L	a	b	c	d	e	f	g
MPX-250	160	258	426	129	65	131	117	140	90	162
MPX-251	159.5	255	466	130	65	131	114	140	90	171
MPX-440	140	226.5	426	110	54	99	96	130.5	87.5	149
MPX-441	159.5	255	480	130	71	131	114	140	104.5	183

Model	W	H	L	a	b	c	d	e	f	g
MPX-452	260	280	513	209.5	80	202.5	120	160	92	157
MPX-453	260	280	523	209.5	80	202.5	120	160	92	157

MPX-257 / MPX-258

MPH-440 / MPH-441



Model	W	H	L	a	b	c	d	e	f	g	i	k
MPX-257	150	155	280.5	110	48	40	65	90	52	158.5	10	7
MPX-258	156	178	334.5	110	52	70	76.5	101.5	63	160.5	27	9

Model	W	H	L	a	b	c	d	e	f	g
MPH-440	140	217	418.5	110	48.5	99	96	121	85.5	155.5
MPH-441	161	255	528	152	55	130.5	116	139	105.5	176

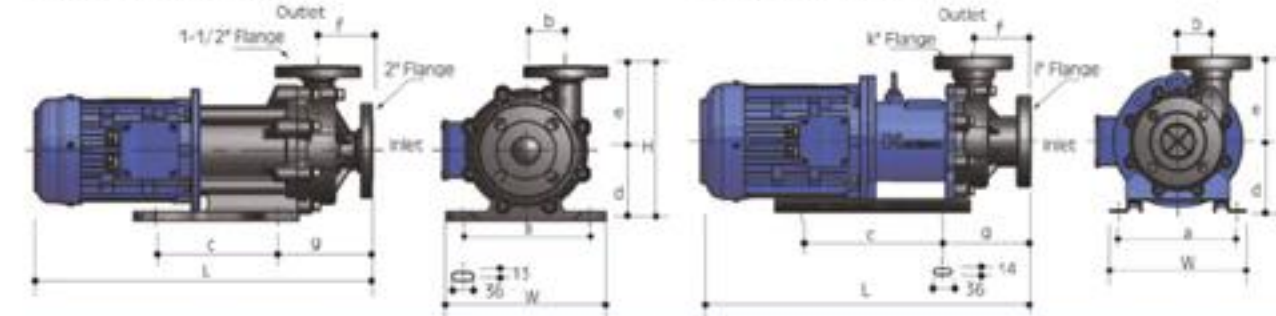


MPH/MP SERIES

DIMENSIONS

MPH-452 / MPH-453

MPH-455 / MPH-565

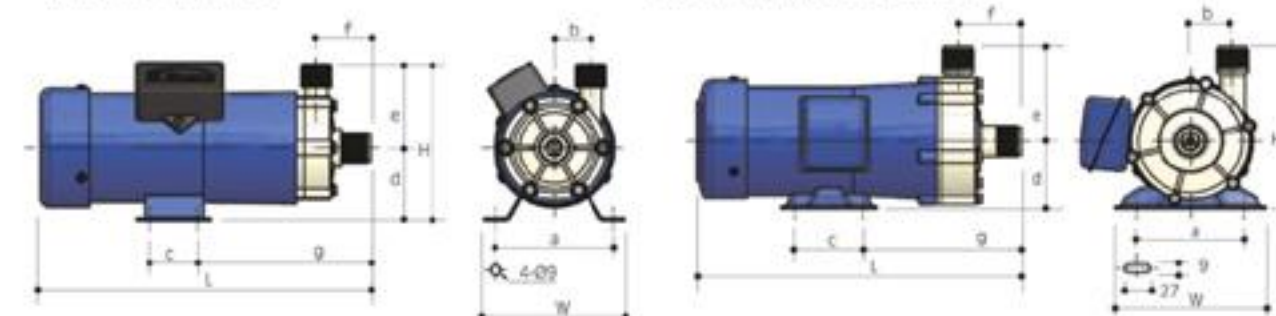


Model	W	H	L	a	b	c	d	e	f	g
MPH-452	263	255	557	208.5	65	202	116	139	90	155
MPH-453	265	255	557	208.5	65	202	116	139	90	155

Model	W	H	L	a	b	c	d	e	f	g	i	k
MPH-563	263.5	276.7	577	208.5	64.75	202	115.2	161.5	109		65	50
MPH-455	264	274.5	620	230	65	275	135.5	139	90	140	50	40
MPH-565	264	297.5	641.5	230	65	275	135.5	162	111	170.5	65	50
MPH-665	263.5	276.7	577	208.5	64.75	202	115.2	161.5	109		65	50

MP-203 / MP-204

MP-255 / MP-257 / MP-258



Model	W	H	L	a	b	c	d	e	f	g
MP-203	120	135	259.5	100	31	40	64	71	47	148
MP-203H	120	131	234	100	40	40	60	71	39.5	133.5
MP-204	120	135	259.5	100	31	40	64	71	47	148
MP-204H	120	149	250	100	46.5	40	60	89	37.5	138.5

Model	W	H	L	a	b	c	d	e	f	g
MP-255	120	155	501.5	100	43	40	65	90	62	180
MP-257	130	157	278	110	42	40	68	89	51	155
MP-257H	130	166.5	264	110	47.5	40	66	100.5	41	144
MP-258	156	170	334	110	43	70	71	99	64.5	163

WORKING PRINCIPLE

MAGNETIC DRIVE PUMP
MPX/MPH/MP SERIES

MODEL IDENTIFICATION

MPX/MPH/MP Series 마그네트 펌프는 서로 다른 극을 끌어당기는 자석의 원리를 이용한 원심 펌프입니다.

Drive magnet가 모터 축에 맞물려 회전하면서 Drive Magnet와 Magnet Capsule의 자력에 의해 동시에 회전하게 되며, 이 때 Impeller가 회전하면서 용액을 이송시킵니다.

Seal-less 구조로 Drive Magnet와 Magnet Capsule 사이에 부식에 강한 Rear Casing이 막고 있어 누수, 오염, 부식 등의 문제를 방지합니다.

셀(Seal) 교환 작업이 없으므로 유지 보수비가 절감 됩니다.

The MPX / MPH / MP series magnetic drive pump is driven by a pair of magnet, equipped between the impeller and the motor shaft. Based on the principle of different polarity attract each other, when the motor operating to make the drive magnet running, it combines with the magnet capsule on the impeller to produce a coupling torque. This provides sufficient power to start impeller running for delivering liquid.

Unlike the conventional centrifugal pump, the sealless design on the magnetic drive pump has a corrosion-resistant rear casing that separates the drive magnet and the magnet capsule. This may avoid liquid leakage, pollution or corrosion problems.

MPX / MPH SERIES



MODEL IDENTIFICATION

MPX - F - 44 - 0 - C - C - V - 6 - V38 - A

1	2	3	4	5	6	7	8	9	9
1. MODEL	: MPX		MPH						
2. MATERIAL	: PP-PP		F-GFRPP		P-PVDF		E-CFRETPE		
3. IN-OUTLET	: 25-25x25mm		44-40x40mm		45-40x50mm		56-50x65mm		
4. POWER	: 0-1/2HP		1-1HP		2-2HP		3-3HP		
5. SPINDLE	: CCERAMIC		S-		SIC				
6. BEARING	: A- CERAMIC		C- CARBON		P-PTFE		S-SIC		
7. RUBBER	: V-VITON		E-EPDM		P-PFA				
8. FREQUENCY	: 5-50Hz		6-60Hz						
9. VOLTAGE	: V38-220V/380V/3Ø		V41-280V/415V/3Ø		V44-240V/440V/3Ø				
10. SPECIFIC WEIGHT	: 50Hz → A-1.2		B-1.5		C-2.0				
	60Hz → D-1.2		E-1.5		F-2.0				

MP / MPX SERIES



MODEL IDENTIFICATION

MP - F - 25 - 8 - S - C - V - 6 - V38

1	2	3	4	5	6	7	8	9
1. MODEL	: MP		MPX					
2. MATERIAL	: PP-PP		F-GFRPP		P-PVDF		E-CFRETPE	
3. IN-OUTLET	: 20-3/4"		25-1"					
4. POWER	: 3-45W		4-65W		5-90W		7-180W	
5. CONNECTION	: S- SCREW		H- HOSE					
6. SPINDLE	: A- CERAMIC		S- SIC					
7. RUBBER	: V-VITON		E-EPDM		P-PFA			
8. FREQUENCY	: 5-50Hz		6-60Hz					
9. VOLTAGE	: V11-110V/1Ø		V22-220V/240V/1Ø		V38-220V/380V/3Ø		V41-208V/415V/3Ø	

NO	Description	Material											
		MPX-PP Series			MPX-F Series			MPX-P Series				MPX-E Series	
		CC	CP	CA	CC	CP	CA	CC	CP	CA	SS	SS	
1	Front Casing	PP			CFRPP			PVDF				CFRPTFE	
1-1	Front Thrust Ring	Ceramic									SiC		
1-2	Outlet O-ring	EPDM / VITON / PFA											
1-3	Inlet O-ring												
1-4	Outlet Flange	PP			CFRPP			PVDF				CFRPTFE	
1-5	Outlet Flange Fasten Screw												
1-6	Inlet Flange												
1-7	Inlet Flange Fasten Screw												
2	Impeller	CFRPP											
2-1	Mouth Ring	PTFE									SiC		
3	Bearing	Carbon	PTFE	Ceramic	Carbon	PTFE	Ceramic	Carbon	PTFE	Ceramic			
4	Magnet Capsule												
5	Rear Casing	PP						PVDF				CFRPTFE	
5-1	Spindle	Ceramic									SiC		
5-2	Rear Thrust Ring	CFRPPS											
6	O-ring	EPDM / VITON / PFA											
7	Drive Magnet	Isotropic Ferrite											
8	Baseplate	CFRPP											
9	Motor												

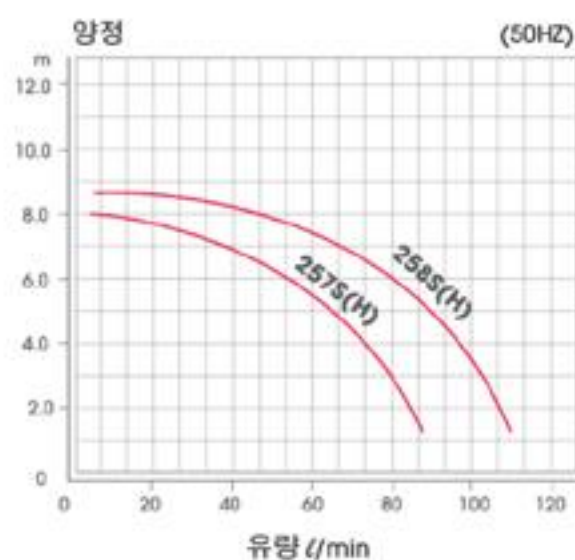
SPECIFICATIONS
PERFORMANCE CURVE CHARTMAGNETIC DRIVE PUMP
MPX SERIES

CONSTRUCTION

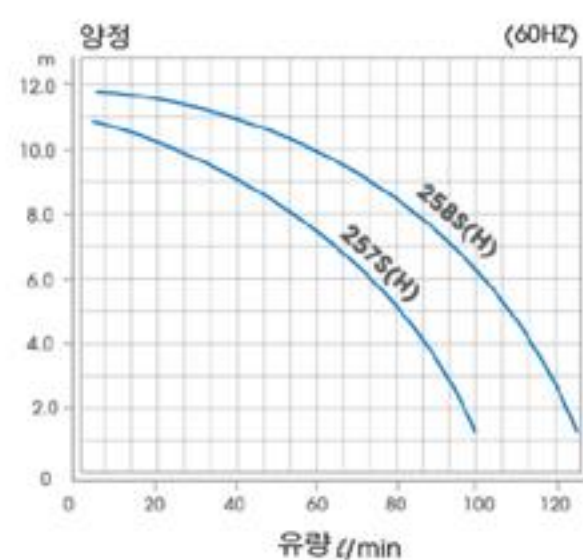
MPX SERIES

PERFORMANCE CURVE CHART

MPX257-MPX258



MPX257-MPX258



MPX SERIES

SPECIFICATIONS

MODEL			MPX-257S(H)	MPX-258S(H)
비중 S.G.			1.2	1.2
Hose Connected	入口 IN	(mm)	25	25
	出口 OUT	(mm)	25	25
Screw Diameter	入口 IN	(inch)	1	1
	出口 OUT	(inch)	1	1
Max. Capacity	50Hz	(L/min)	90	110
	60Hz	(L/min)	100	125
Max. Head	50Hz	(M)	8.0	8.6
	60Hz	(M)	10.8	14.0
Standard Duty Point	50Hz	(M-L/min)	5.4-50	6-70
	60Hz	(M-L/min)	7.8-50	9-70
Motor 50Hz/60Hz	Output	(KW)	150/180	250/260
	Phase	(Ø)	1 or 3	1 or 3
Weight			6.4	8.6

MPX SERIES

CONSTRUCTION



NO	Description	Material			
		MPX-PP Series	MPX-F Series	MPX-P Series	MPX-E Series
1	Front Casing	PP	GFBRP	PVDF	CFRTP
1-1	Bearing	Rulon / CFRPPS		Rulon / SIC	SIC
1-2	Thrust Ring	Ceramic		Ceramic / SIC	
2	Impeller	CFRPP		PVDF	CFRTP
2-1	Mouth Ring	Rulon			
2-2	Bearing	Rulon / CFRPPS		Rulon / SIC	SIC
3	Spindle	Ceramic		Ceramic / SIC	
4	Rear Casing	PP	GFBRP	PVDF	CFRTP
5	Retainer Ring	SUS 304			
6	O-ring	EPDM / VITON / PFA			
7	Drive Magnet	Isotropic Ferrite			
8	Motor				

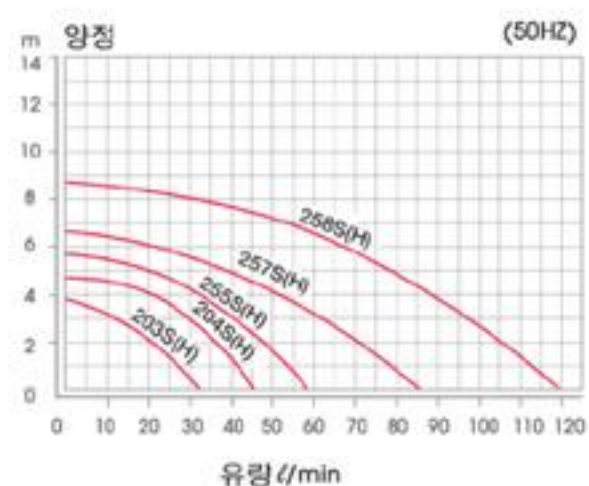
NO	Description	Material										
		MPH-PP Series			MPH-F Series			MPH-P Series			MPH-E Series	
		CC	CP	CA	CC	CP	CA	CC	CP	CA	SS	SS
1	Front Casing	PP			GFRPP			PVDF			CFR/TFE	
1-1	Thrust Ring	Ceramic									SiC	
1-2	Outlet O-ring	EPDM / VITON / PFA										
1-3	Inlet O-ring											
1-4	Outlet Flange	PP			GFRPP			PVDF			CFR/TFE	
1-5	Inlet Flange	CFRPP										
2	Impeller											
2-1	Mouth Ring	PTFE									SiC	
3	Bearing	Carbon	PTFE	Ceramic	Carbon	PTFE	Ceramic	Carbon	PTFE	Ceramic		
4	Magnet Capsule	PP			PP			PVDF			CFR/TFE	
5	Rear Casing	GFRPP										
5-1	Spindle	Ceramic									SiC	
6	O-ring	EPDM / VITON / PFA										
7	Drive Magnet	Isotropic Ferrite										
8	Baseplate	GFRPP / FC										
8-1	Frame	SUS										
9	Motor											

SPECIFICATIONS
PERFORMANCE CURVE CHARTMAGNETIC DRIVE PUMP
MP SERIES

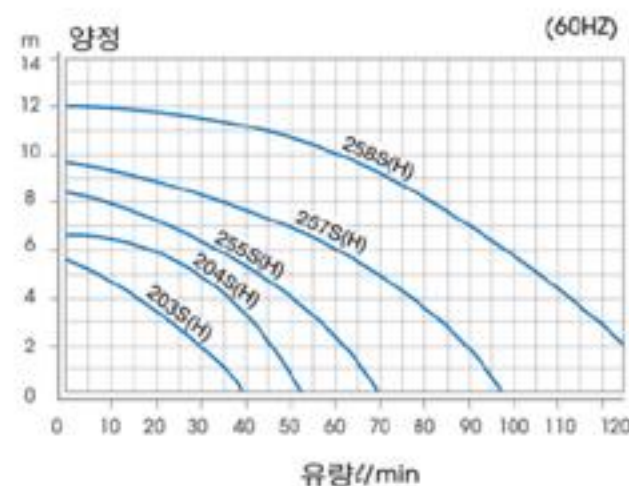
MP SERIES

PERFORMANCE CURVE CHART

MP203-MP258



MP203-MP258



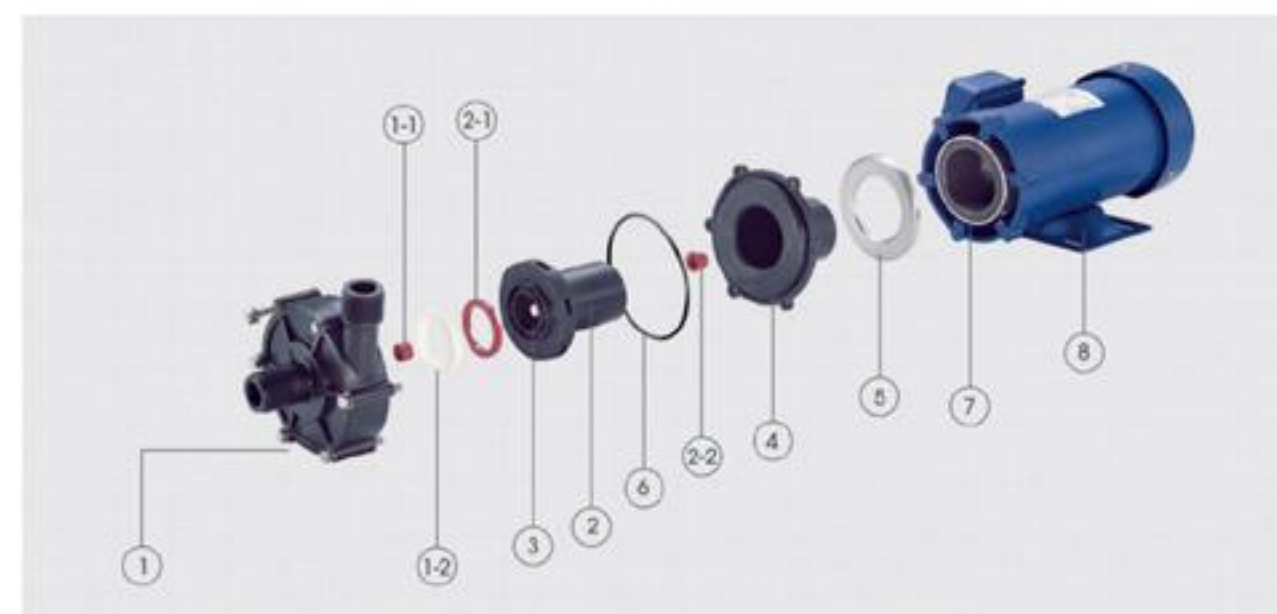
MP SERIES

SPECIFICATIONS

MODEL		MP-203	MP-203H	MP-204	MP-204H	MP-255	MP-257H	MP-257	MP-258
Hose Connected	S.G.	1.2	1.0	1.2	1.0	1.2	1.0	1.2	1.2
	IN (mm)	20	18	20	20	26	20	26	26
Screwed	OUT (mm)	20	18	20	20	26	20	26	26
	IN (inch)	3/4	3/4	3/4	3/4	1	3/4	1	1
Max. Capacity	OUT (inch)	3/4	3/4	3/4	3/4	1	3/4	1	1
	50Hz (L/min)	52	15	45	22	60	40	86	120
Max. Head	60Hz (L/min)	38	18	52	24	70	53	97	135
	50Hz (M)	3.8	8	4.6	1.0	5.6	14.3	6.7	8.6
Standard Duty Point	60Hz (M)	5.4	11	6.5	13.5	8.2	20.3	9.7	12.5
	50Hz (M-L/min)	2.5-16	5-9	4-22	9.5-10	4-30	13.5-20	4-50	6.5-60
Motor	60Hz (M-L/min)	2.5-24	8-15	4-34	10-15	4-45	16.5-30	4-72	9-70
	OUTPUT (KW)	45	45	65	65	90	150/180	150/180	255/265
Weight	INPUT (KW)	60 / 80	60 / 80	90 / 130	90 / 130	130/170	210/300	210/300	245/365
	PHASE (Ø)	1	1	1	1	1 or 3	1 or 3	1 or 3	1 or 3

MP SERIES

CONSTRUCTION



NO	Description	Material			
		MP-PP Series	MP-F Series	MP-P Series	MP-E Series
1	Front Casing	PP	CFRPP	PVDF	CFRTEFE
1-1	Bearing	Rulon / CFRPPS		Rulon / SIC	SIC
1-2	Thrust Ring	Ceramic		Ceramic / SIC	
2	Impeller	PP		PVDF	CFRTEFE
2-1	Mouth Ring	Rulon			
2-2	Bearing	Rulon / CFRPPS		Rulon / SIC	SIC
3	Spindle	Ceramic		Ceramic / SIC	
4	Rear Casing	PP	CFRPP	PVDF	CFRTEFE
5	Retainer Ring	SUS 304			
6	O-ring	EPDM / VITON / PFA			
7	Drive Magnet	Isotropic Ferrite			
8	Motor				

INTERIOR PARTS FEATURES OF CRITICAL PARTS

MAGNETIC DRIVE PUMP MPX/MPH/MP SERIES



INTERIOR PARTS

FRONT CASING:

MPX/MPH/MP Series의 Front Casing은 부식에 강한 재료로 일체형 사출 성형하였습니다. MPX/MPH의 Front Casing의 흡입구와 토출구는 나사(Screw)타입으로 되어있어 Flange와 Union을 선택 사용 할 수 있고 MP Series는 Screw(나사)-type과 Hose(호스)-type이 있습니다.

BEARING:

빠른 방열효과로 펌프의 공회전을 가능하도록 특수 제작되었으며, CARBON, PTFE, CERAMIC, SIC 재질이 있으며 화학용액의 특성에 맞는 재질을 선택하여 각종 제조 공정에서 사용이 가능합니다.
(단, 공회전은 Carbon Bearing에 한함.)

IMPELLER:

순수PP, GFRPP, CFRPP, PVDF, CFRETFE 재질이 있으며 화학용액에 최고의 성능을 나타낼 수 있도록 설계하였습니다.

REAR CASING

MPX/MPH/MP Series의 Rear Casing은 부식에 강한 재료로 일체형 사출 성형하였으며 모터와 펌프 사이를 막아 줌으로써 누수 및 오염을 방지해주는 역할을 합니다.

FRONT CASING:

The front casing of MPX / MPH / MP series pump is integral molded by corrosion-resistant material. The front casing on MPX / MPH series is screwed for connecting with a flange or union. The front casing on MP series is screwed or hose type for connecting with a union or flexible hose.

BEARING:

Patented design of bearing which the capability of spread heat rapidly can provide good dry running resistance. The bearing provide various materials to choose from, such as carbon, PTFE, ceramic and SIC to suit various types of liquid, properly select bearing material combined with correct pump body material according to your industrial processing.

IMPELLER:

The impeller is manufactured from acid / alkaline resistant PP, GFRPP, CFRPP, PVDF or CFRETFE material. Impeller sizes are designed according to solution specific weight, voltage and frequency to achieve the outstanding performance.

REAR CASING:

The rear casing of MPX / MPH / MP series pump is integral molded by corrosion-resistant material. The motor and pump interior are separated by the rear casing to eliminate environmental pollution problem caused by liquid leakage.

O-RING:

부식에 강한 EPDM, VITON 및 PFA재질을 사용합니다.

MAGNET CAPSULE:

Impeller에 장치되어 있으며 강력한 자석이 PP재질 안에 밀봉되어 있어 부식을 방지하며 충분한 회전력을 제공 합니다.

DRIVE MAGNET:

모터 측에 장치되어 있으며 강력한 자력을 갖고 있습니다. Drive Magnet와 Magnet Capsule의 강한 자력으로 동시에 회전하며 이때 Impeller를 회전시킵니다.

MOTOR:

MP(45W~260W)/MPX(180W~260W) Series의 모터는 과열 방지 장치가 되어있으며 MPX(0.37KW~2.2KW) Series는 전폐형 타입으로 방수등급 IP56입니다.
방폭타입도 선택 가능 합니다.

O-RING:

The EPDM, VITON and PFA O-ring features outstanding corrosion resistance.

MAGNET CAPSULE:

The magnet capsule is mounted on the impeller, the extra powerful magnet is totally enclosed in the plastic material to avoid rusting or corrosion. And the driven magnet can provide sufficient torque.

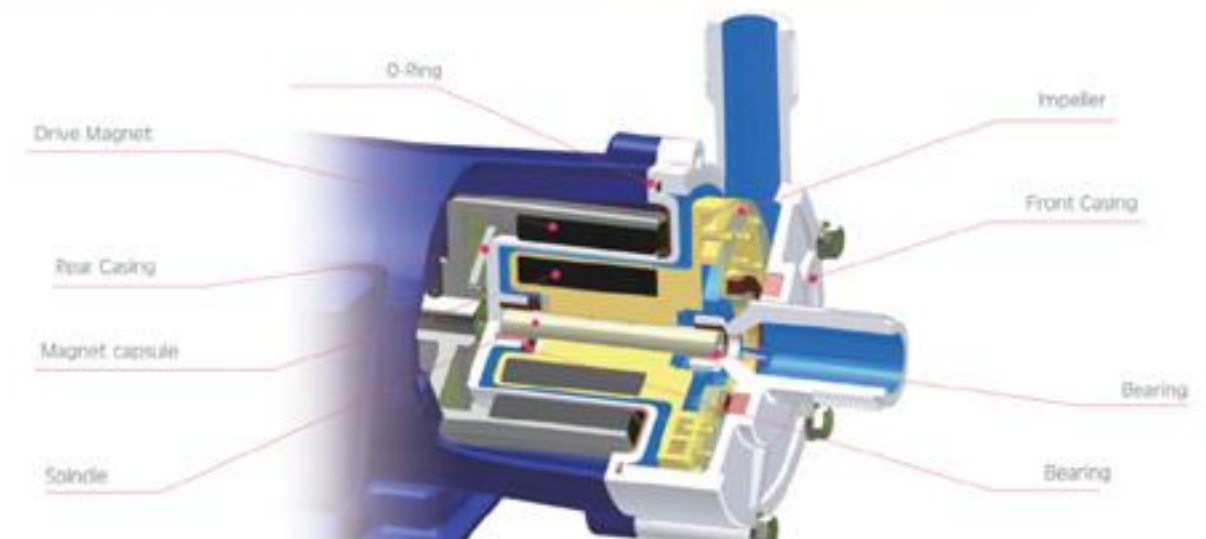
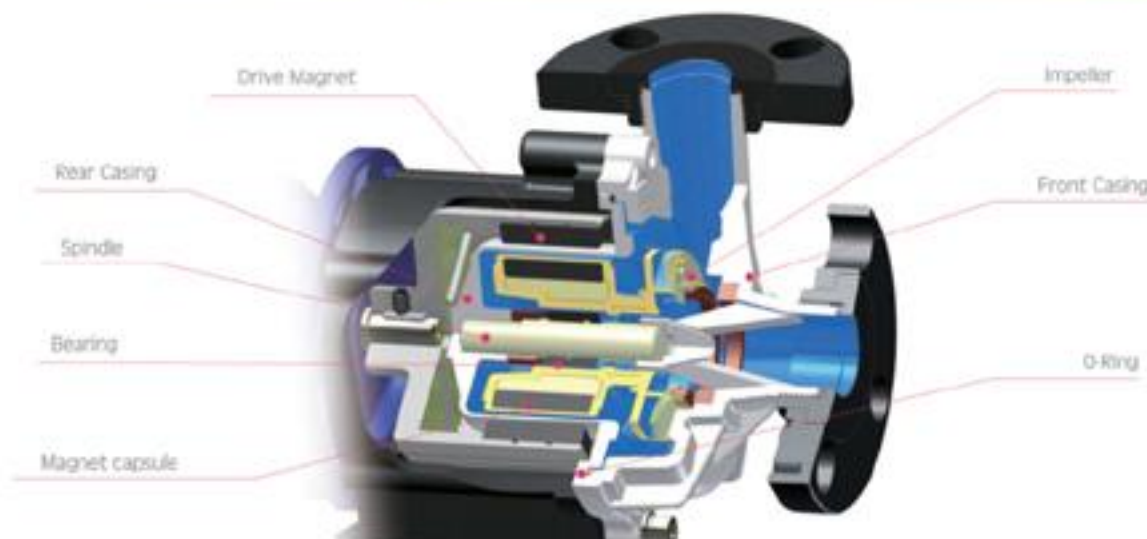
DRIVE MAGNET:

The drive magnet is mounted on the motor shaft. It's powerful magnetism combined with the magnet capsule on the impeller produce a coupled torque for driving impeller running.

MOTOR:

The motor used on the MP(45W~260W) / MPX(180W~260W) series pump features over-heat protection. The MPX(0.37Kw~2.2Kw) / MPH(0.37Kw~3.75Kw) series pump employs TEFC indoor type motor. Upon request, an explosion-proof motor is available.

MPX/MPH/MP SERIES



INTERIOR PARTS