



Magnetic Drive Pump



The MX Series pumps represent the latest state of the art design in plastic magnetic drive pumps. MX Series has been engineered to meet the most severe operating conditions.

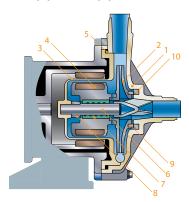
- MX will allow for periods of dry running when fitted with a carbon bearing.
- MX Series pumps are highly recommended for use in various production processes such as filtering, spraying, washing, plating, chemical transfer/blending, and etching in surface treatment appplications.
- MX utilizes standard NEMA frame motors making them easy to install. (IEC and JIS versions available)
- Non-metallic baseplate will not corrode in hostile environments.
- NPT male connections ensure that the over-torque of a fitting will not damage the pump casing.



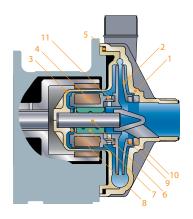
Model Identifcation Code series MX-F 400 CFV 6 Impeller mark Series symbol MX 5: 50 Hz MX: GFRPP casing MX-F: CFRETFE casing 6: 60 Hz 7: Large impeller MX-F X: 50/60 Hz V: 50/60 Hz **Pump size** Material of Bearing/Spindle/O-ring Suction x discharge **Motor HP** CV : High density carbon/Alumina ceramic/FKM (EPDM/AFLAS®) **250**: 1" x 1" 0.5 HP 251: 1" x 1" 1.0 HP RV: PTFE/Alumina ceramic/FKM (EPDM/AFLAS®) AV: Alumina ceramic/Alumina ceramic/FKM (EPDM/AFLAS®) (models MX-250 to MX-401) 400: 1½" x 1½" 0.75 HP 401: 1½" x 1½" 1.5 HP MX-F CFV: High density carbon/High Purity Alumina ceramic/FKM (EPDM/AFLAS®) 402 : 2" x 1½" 2.0 HP RFV: PTFE/High Purity Alumina ceramic/FKM (EPDM/AFLAS®) **403**: 2" x 1½" 3.0 HP KKV: SiC/SiC/FKM (EPDM/AFLAS®) AFV: Alumina ceramic/Alumina ceramic/FKM (EPDM/AFLAS®) (models MX-F250 to MX-F401)

Liquid End Construction

MX-(F)250 to (F)401



MX-(F)402(H) & (F)403(H)



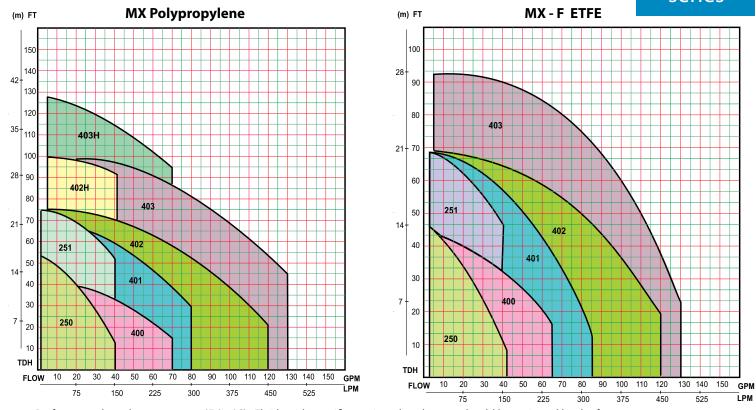
		MX-402 to F403H					
Model	MX-250 to 401						
Mark	AV(AE)	CV (CE)	RV (RE)				
1 Front casing		GFRPP					
2 Impeller	GFRPP						
3 Rear casing	GFRPP						
4 Magnet capsule	PP						
5 O-ring	FKM ¹						
6 Spindle	High Purity Alumina Ceramic						
7 Bearing	Alumina Ceramic C		PTFE				
8 Rear thrust	CFRPPS	CFRPPS ²					
9 Mouth ring	PTFE						
10 Thrust/Liner ring	Alumina Ceramic						
11 Lock pin	GFRPPS (only on 402 & 403(H)						

		MX-F402 & F40						
Model								
Mark	CFV	RFV	KKV	AFV				
1 Front casing			CFRETFE					
2 Impeller			CFRETFE					
3 Rear casing			CFRETFE					
4 Magnet capsule			CFRETFE					
5 O-ring	FKM¹							
6 Spindle	High Purity Alu	ımina Ceramic	SiC	High Purity Alumina Ceramic				
7 Bearing	Carbon PTFE		SiC	High Purity Alumina Ceramic				
8 Rear thrust	CFRE	TFE	CFRETFE ³	CFRETFE				
9 Mouth ring	PT	FE	SiC	PTFE				
10 Thrust/Liner ring	High Purity Alu	ımina Ceramic	SiC	High Purity Alumina Ceramic				
1								

¹¹ Lock pin CFRETFE (only on 402 & 403) ---
1 EPDM and AFLAS* o-ring also available 2 402-403H have CFRPEEK rear thrust collars 3 F402-403 have CFRPFA rear thrust collars

Performance Curves





Performance based on water @ 70°F (21°C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.

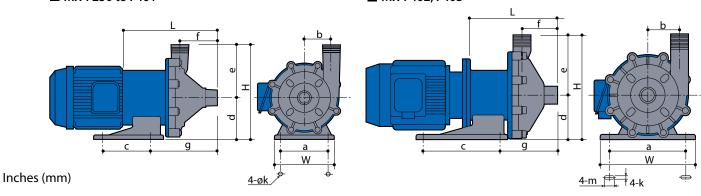
Specifications

Model		Suction & Discharge (NPT)	Max Discharge Pressure (ft)	Max Flow (GPM)	Specific Gravity	Motor output @ 60 Hz	Weight (less motor) lbs	
MX-250		1" x 1"	53	40	1.0	0.5 HP	17.0	
MX-251		1" x 1"	75	40	1.0	1 HP	22.5	
MX-400		1.5" x 1.5"	38	70	1.2	0.75 HP	13.7	
	7	1.5" x 1.5"	43	70	1.2	0.75 HP	13.7	
MX-401	6	1.5" x 1.5"	59	80	1.2	1.5 HP	22.5	
	7	1.5" x 1.5"	68 80		1.2	1.5 HP	22.5	
MX-402		2" x 1.5"	73	107	1.2	2 HP	29.8	
MX-402H		2" x 1.5"	99	45	1.0	2 HP	29.8	
MX-403		2" x 1.5"	101	130	1.2	3 HP	32.0	
MX-403H		2" x 1.5"	126	70	1.0	3 HP	32.0	
MX-F250		1" x 1"	48	43	1.2	0.5 HP	17.0	
MX-F251		1" x 1"	69	40	1.0	1 HP	22.5	
MX-F400	V	1.5" x 1.5"	43	65	12	0.75 HP	13.7	
	Х	1.5" x 1.5"	34	65	1.2	0.75 HP	13.7	
MX-F401	٧	1.5" x 1.5"	68	86	1.2	1.5 HP	22.5	
	Χ	1.5" x 1.5"	50	75	1.2	1.5 HP	22.5	
MX-F402		2" x 1.5"	70	120	1.2	2 HP	29.8	
MX-F403		2" x 1.5"	93	130	1.2	3 HP	32.0	

Dimensions

■ MX-F250 to F401

MX-F402, F403



Model	W	Н	L	а	b	с	d	e	f	g	k	m
MX-(F)250	6.30 (160)	9.75 (248)	9.39 (239)	5.12 (130)	2.56 (65)	5.12 (130)	4.53 (115)	5.22 (133)	3.25 (83)	6.12 (155)	0.47 (12)	
MX-(F)251	6.30 (160)	9.75 (248)	9.39 (239)	5.12 (130)	2.56 (65)	5.12 (130)	4.53 (115)	5.22 (133)	3.25 (83)	6.12 (155)	0.47 (12)	
MX-(F)400	5.51 (140)	8.62 (219)	9.37 (238)	4.33 (110)	2.13 (54)	3.86 (98)	3.74 (95)	4.88 (124)	3.19 (81)	5.67 (144)	0.47 (12)	
MX-(F)401	6.30 (160)	9.81 (249)	9.96 (253)	5.12 (130)	2.83 (72)	5.12 (130)	4.53 (115)	5.28 (134)	3.82 (97)	7.01 (178)	0.47 (12)	
MX-(F)402/403 (H)	10.24 (260)	10.78 (274)	9.53 (242)	8.19 (208)	3.15 (80)	7.87 (200)	4.72 (120)	6.06 (154)	3.27 (83)	5.94 (151)	0.55 (14)	1.42 (36)

The MX Series pumps represent the latest state of the art design in plastic magnetic drive pumps. With the experience gained from previous generations of MDH pumps, the MX Series has been engineered to meet the most severe operating conditions.

When fitted with a carbon bearing, the MX will allow for periods of dry running. The patented "self radiating structure", in addition to the existing proven non-contact principle with front and rear supported spindle, greatly improves the ability to withstand cavitation and running against a closed discharge valve.

MX Series pumps are highly recommended for use in various production processes such as filtering, spraying, washing, plating and etching in surface treatment appplications.

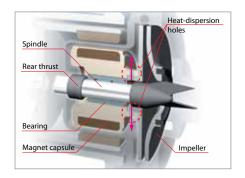
Patented Split Volute Casing

The MX Series is the first resin magnet pump that uses a split volute pump casing that forms a vortex chamber. The volute limits the liquid flow from the impeller and returns it to the pump, which is efficiently guided to the discharge port to enhance overall efficiency.

Patented Self-radiating structure

Through heat dispersion holes provided in fixed portions of the impeller and the magnet capsule, the liquid around the spindle and bearing is forced to circulate. Heat generated by friction can be reduced effectively, thereby preventing any thermal deformation and reducing wear.

MX utilizes standard NEMA frame motors making them easy to install. (IEC and JIS versions available)







Reinforced front casing



