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SERIES 'MES' SELF-PRIMING MAGNETIC COUPLED PUMPS



Versatile-Economical

- Flows to 54 GPM or 63 ft. TDH @ 60 Hz (172 LPM or 13.6 m @ 50 Hz)
- Non-metallic solution contact
 Glass reinforced polypropylene or
 Carbon reinforced PVDF
 (See a chemical resistance chart)
- Deep-lift capacity
 Up to 25 feet / 7.6 meters
- Fast priming
 18 feet / 4.6 meters in 90 sec.
- Extended dry run capability
- Powerful rare earth magnets
 Provide sure coupling to 1.8 S.G.
- Accepts standard motors
 NEMA or IEC metric

Series 'MES' self-priming magnetic coupled pumps are seal-less and "leak-proof" providing total solution containment. They are available in a choice of two different corrosion resistant materials for a wide range of chemical and temperature compatibility and are ideal for handling even the most difficult applications.

The outstanding self-priming feature of the Series 'MES' combines deep-lift capabilities (up to 25 feet / 7.6 meters) and lightning-fast priming (18 feet / 4.6 meters in 90 seconds). The priming chamber's gooseneck design eliminates the need for internal check valves while ensuring that enough liquid is retained for efficient repriming.

These pumps utilize powerful rare earth, neodymium, magnets which allow them to operate at full flow with a full size impeller while handling liquids over 1.8 specific gravity.

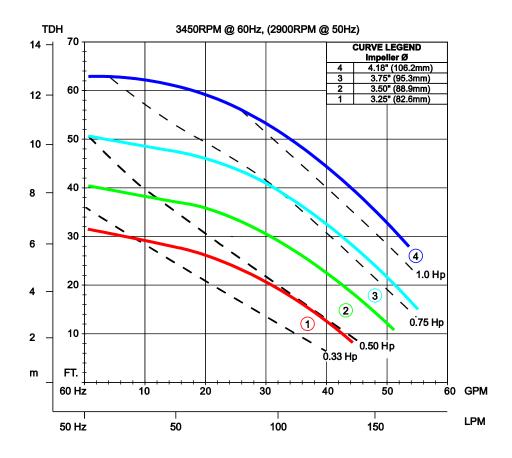
Additionally the Series 'MES' has extended dry run capability when equipped with the standard carbon bushing and under optimum operating conditions. This helps protect the pump from operator errors and system upsets.

Their innovative and highly efficient design, and low energy consumption make these pumps one of the most versatile and economical centrifugal pumps on the market.

SPECIFICATIONS / PERFORMANCE

Standard models are constructed of glass-fiber reinforced polypropylene or carbon-fiber reinforced PVDF for suction casing, magnet liner and impeller. Impeller magnets are encapsulated in unfilled polypropylene or unfilled PVDF. The front and rear thrust rings and shaft are high purity, fluoride resistance alumina ceramic.

The impeller thrust ring is molybdenum disulfide filled PTFE. The casing 'O'-ring is FKM. Maximum pump pressure; 80 PSI (5.5 bar). Motors are continuous-duty and have a 1.5 service factor.



MAXIMUM LIFT 3450 RPM, 1.0 SPG										
CURVE 1" SUCTION 1-1/2" SUCTION										
4	25' (7.6m)	25' (7.6m)								
3	20' (6.1m)	20' (6.1m)								
2	20' (6.1m)	15' (4.6m)								
1	15' (4.6m)	15' (4.6m)								

ORDERING INFORMATION

For standard 60HZ pump-motor combination, select model from TABLE I For custom pump-motor combination, select from components in TABLE II

 TABLE I
 Select pump-motor model or flow curve number providing the desired performance

FLOW	POLYPROPYLENE PUN	MP/MOTOR	PVDF PUMP/M	* Motor HP shown	
CURVE	MODEL NUMBER	PRICE CODE	MODEL NUMBER	PRICE CODE	will handle full flow to a S.G. of:
1	MESMPVGC1B-C.75	51-2412-C	MESMKVGC1B-C.75	51-2512-C	1.50
2	MESMPVGC2B-C.75	51-2422-C	MESMKVGC2B-C.75	51-2522-C	1.19
3	MESMPVGC3B-D.1.0	51-2432-K	MESMKVGC3B-D1.0	51-2532-K	1.25
4	MESMPVGC4C-D1.5	51-2443-L	MESMKVGC4C-D1.5	51-2543-L	1.15

TABLE II To determine pump-motor for a specific flow, TDH, HP curve (dotted line) and then horizontally to HP scale. and/or specific gravity, select flow/pressure point on performance curve (solid line). Required HP is determined by moving vertically to corresponding

Multiply indicated HP by specific gravity of fluid to be pumped. Select pump materials and construct Model and Price Code.

EXAMPLE:	PUMP	+	IMPELLER	+	MAGNET/FRAME	+	MOTOR	=	PCN
EXAMIPLE.	MESMPVGC	+	3	+	В	+	D1.0	=	51-2432-K

^{1.} For pump only, eliminate motor suffix from price code number.

² Single phase – 115-208-230V/1/60 or 110-220V/1/50 Three Phase - 208-230-460V/3/60 or 220-380V/3/50

PUMP ¹							
MODEL NO.	PCN						
MESMPVGC	51-24						
Polypropylene	31-24						
MESMKVGC	51-25						
PVDF	31-23						

IMPELLER								
FLOW CURVE ADD TO								
FLOW CORVE	MODEL	PCN						
1	1	1						
2	2	2						
3	3	3						
4	4	4						

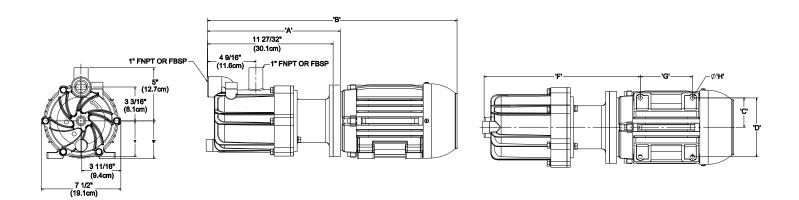
		MAGNET SET /	MOTOR ²						
	HP/KW	W MAGNET SET	FRAME SIZE	ADD TO		SINGLE	PHASE	THREE PHASE	
	HF/KVV			MODEL	PCN	MODEL	PCN	MODEL	PCN
	.5	6 POLE	56C	Α	1	-C.5	Α	-D.5	G
	.75	8 POLE	56C	В	2	-C.75	С	-D.75	J
	1.0	8 POLE	56C	В	2	-C1.0	D	-D1.0	K
60 Hz	1.5	10 POLE	56C	С	3	-C1.5	Е	-D1.5	L
00 HZ	2.0 10 POLE	10 POLE	56C	С	3	ı	-	-D2.0	Р
	.33/.25	6 POLE	63FR	Α	4	ı	-	DM.25	Q
	.5/.37	6 POLE	71FR	Α	5	ı	-	DM.37	V
	.75/.55	8 POLE	71FR	В	6	ı	-	DM.55	W
	1.0/.75	8 POLE	80FR	В	7	-	-	DM.75	Χ
	1.5/1.1	10 POLE	80FR	С	8	-	-	DM1.1	Υ

OPTIONAL

DESCRIPTION	ADD OR CHANGE MODEL	ADD TO PCN
O-ring: (Change V in Model) EPDM	-L	1
Bushing: (Change C in Model) Teflon Alumina Ceramic	-T -R	T R
Connections:		
BSP Threads	-B	В
Union	-U	Ü
Flange	-F	F

DESCRIPTION	ADD OR CHANGE MODEL	ADD TO PCN
Specials:		
SiC (bushing, thrust ring, shaft)	-S	S
Hastelloy shaft	-H	Н
Titanium hardware	-M	М
Non-Sparking ring	-N	N
Exp Motor		
Also requires Non-sparking ring	-X-N	XN

DIMENSIONS



Dimensions and weights are for reference only

FRAME	Α	B*	С	D	Е	F	G	Н		Pump Wt.	Motor Wt.**
FRAIVIE	Inch (cm) Lbs (kg)									s (kg)	
NEMA 56C	11-27/32"	22-3/32"	2-7/16"	4-7/8"	3-1/2"	14-19/32"	3"	11/32"	3-3/8"	13	28
	(30.1)	(56.1)	(6.2)	(12.4)	(8.9)	(37.1)	(7.6)	(0.9)	(8.6)	(5.9)	(12.7)
NEMA 145TC	11-27/32"	23-1/16"	2-3/4"	5-1/2"	3-1/2"	14-7/32"	5"	11/32"	3-3/8"	13	32
NEMA 1451C	(30.1)	(58.6)	(7.0)	(14.0)	(8.9)	(36.1)	(12.7)	(0.9)	(8.6)	(5.9)	(14.5)

^{*} Varies with motor manufacturer.

^{**} Depends upon motor manufacturer and style of motor chosen.