





Magnetic driven centrifugal pumps series HCM

Mag drive centrifugal pumps series HCM are made of thermoplastic materials (Polypropylene or PVDF) and, thanks to their strong and resistant structure, they are suitable for high corrosive fluids and heavy duty applications.

In seal-less magnetic drive centrifugal pumps, the external magnet is directly connected to the motor shaft and it transmits the torque to the internal magnet. The magnetic field created produces a rotation without physical contact between the parts so the impeller spins and moves the fluid. The rear casing is placed between the two magnet joints and it hermetically closes the hydraulic part from the motor.

The pump casing is machined from a solid block for a great resistance in terms of pressure and temperature and the transmission of the motion occurs through magnetic joints without any mechanical seal. This magnetic drive system guarantees the maximum safety and efficiency reducing risks of leakage and emissions.

Specifications

Capacity max.:	130 m3/h
Head max.:	48 m
Temperature max.:	PP 70°C PVDF 90°C

Flanged or threaded connections according to the pump size. Strong structure, maximum resistance to corrosive liquids

Ausführung

- Materials available: PP / PVDF
- Materials in contact with the liquid: pump head and impeller PP or PVDFF
- O-ring EPDM (standard for PP-pumps)
- VITON (standard for PVDF-pumps)
- Shaft Al2O3 99,7 %;
- Bushing PTFEC

PERFORMANCE CURVES 50HZ - 2900 RPM



HCM PP/PVDF TECHNICAL DATA

PUMP	MATERIAL	Q MAX		H MAX		SUCTION	DISCHARGE	PUMPW	eight (Kg)	SUITABLE MOTOR			
SIZE	PIATENIAL	50HZ (M3/H)	60HZ (USGPM)	50HZ (MLC)	60HZ (FT)	CONNECTION	CONNECTION	PP	PVDF	POWER (KW) 2900 rpm / FLANGE AND FRAME			
HCM 32-25	PP- PVDF	13	68	14	58	32	25	3	3.5	0,55 / 71 - B3/B5			
UCM /0 32	PP- PVDF	22	125	20	90	40	30	7	8	1,1 / 80 - B3/B5			
11011 40- 32	PP- PVDF	20	120	20	30	40	JE	/	0	1,5/ 90 - B3/B5			
HCM 50 /0	PP- PVDF	35	185	24	115	50	40	10	11	2,2 / 90 - B3/B5			
11611 30 - 40	PP- PVDF	55	105	24	110	50	40	10		3 / 100 - B3/B5			
	PP- PVDF					65	50			4 / 112 - B3/B5			
HCM 65- 50	PP- PVDF	43	220	22	165			27	61	5,5 / 132 - B5			
	PP- PVDF		220	55				57	41	7,5 / 132 - B5			
	PP- PVDF									9 / 132 - B5			
	PP- PVDF								60	7,5 / 132 S2 - B5			
HCM 80 - 65	PP- PVDF	92	480	38	180	80	65	55		11 / 160 M2A - B5			
	PP- PVDF	52	400	50				55	00	15 / 160 M2B - B5			
	PP- PVDF									18,5 / 160 L2 - B5			
	PP- PVDF									11 / 160 M2A - B5			
HCM 100 80	PP- PVDF	135	650	48	197	10.0	80	60	66	15 / 160 M2B - B5			
HCM 100 - 80	PP- PVDF	100	030	40		100	00	00	00	18,5 / 160 L2 - B5			
	PP- PVDF									22 / 180 M2 - B5			

HCM 32-25 / 40-32 / 50-40 PP/PVDF DIMENSIONS





PUMP TYPE	MOTOR FLANGE B3 - B5	KW		DIMENSIONS - mm -															CONNECTIONS - in			
			Α	В	С	D	E	E'	F	G	H	I	L*	М	Ν	Р	Q	R	S	DNs	DNd	
HCM 32-25	71	0.55	280	180	130	244	119	71	160	65	112	140	260	101	45	158.5	157	90	110	11/2" FEMALE	1" FEMALE	
HCM 40-32	80	1.1	250	236	236	1/ 6	202	140	80	005 70	70	125	160	200	1/.0	80	200	200	100	130	- 11/2" EEMALE	11//- EEMALE
	90	1.5	330	246	140	302	150	90	205 .	70	140	170	200	142	84	200	216	100	153	172 FEMALE	11/4 FEMALE	
HCM 50-40	90	2.2	350	000	146		302	150	90	205	07	140	180	280	105	108	200	240	125	160	2" EEMALE	11/2" EEMALE
	100	3	400	200	202	352	160	100	250	04	160	200	316	105	107	250	247	140	182	2 FEMALE	TI/Z FEMALE	

* Different according to the manufacturer. OPTIONAL UPON REQUEST: Baseplate - Flanges.

HCM 32-25 / 40-32 / 50-40 / 65-50L PP/PVDF WITH FLANGES DIMENSIONS



PUMP TYPE		K	DIMENSIONS - mm -																
	B3 - B5	r w	А	В	С	D	E	E'	F	G	Н	I.	L*	М	Ν	Р	Q	R	S
HCM 32-25	71	0.55	280	187	130	244	119	71	160	75	112	140	260	115	45	158.5	157	90	110
HCM (0.22	80	1.1	250	50 246	146 302	140	80	205	OE	125	160	200	1/0	80	200	200	100	130	
HCM 40-32	90	1.5	350			302	150	90	205	00	140	180	200	142	84	200	216	100	153
	90	2.2	350	200	146	302	150	90	205	0 /	140	180	280	1/0	108	200	240	125	160
HUM 50-40	100	3	400	200	202	352	160	100	250	04	160	200	316	149	127	250	247	140	182
HCM 65-50-L	112	4	400	331	202	352	172	112	250	103	190	230	324	171	142	250	298	140	195

HCM 65-50-L

* Different according to the manufacturer.

HCM 65-50H / 80-65 / 100-80 PP/PVDF DIMENSIONS



PUMP	MOTOR FLANGE K\ B5	Khul		DIMENSIONS - mm -												FLANGE DIN PN 10 - DIMENSIONS - mm -									
TYPE		κw	Α	В	C	D	E	F	G	L*	N	0	Р	R	S	U	U'	۷	Z	DNs	DNd				
HCM 65-50-H	132	5.5						274	103	383		171				nº 4	nº 4								
	132	7.5	365	351	216	250	192			(01	98		300	125	168	Ø18	Ø18	145	188	65	50				
	132	9								421						holes	holes								
	13252	7.5	475 4									421			300			n ⁰ 8	n ^o /						
HCM 80-65	160M2A	11 15		430	250	360	225	330	130	510	105	234	350	145	188	Ø18	Ø18 holes	160	200	80	65				
	160L2	18.5								554						holes									
	160M2A	11 15												510						n° 8	n° 8				
HCM 100-80	160L2	18.5	475	436	250	360	225	330	126	554	105	263	350	160	200	Ø18 holes	Ø18 holes	180	220	100	80				
	180M2	22								595															

* Different according to the manufacturer.

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