PLASTIC CLOSE COUPLED PUMPS HMP-M MAGNETIC DRIVE



Generalities

The horizontal close coupled magnetic drive pumps HMP-M come from the HMP-N/S range and are mounted with their hydraulic parts.

They can be proposed with self-priming volute of HMP-A pumps range.

HMP-M range pumps offer flow rates up to 80 m³/h (352 US gpm) and a discharge head up to 40 mcl (131 ft).

Construction

The hydraulic part is entirely realized of thick walled plastic material.

There is no metallic component in contact with the pumped liquid.

- > Polypropylene PP or PP-EL
- > PVC
- > PVDF or PVDF-EL



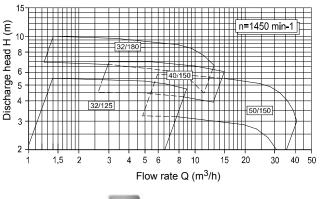
Conformité ATEX

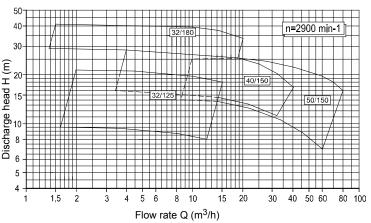


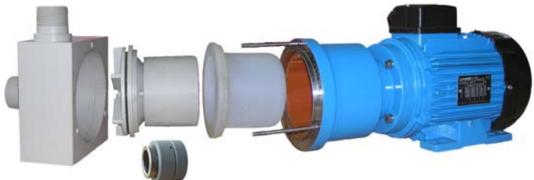
For the EC zone, HMP-M pumps are available certified as per ATEX 94/9/CE.

II 2/3 GcT4 (others on demand)
Voluntary certification INERIS 04 ATEX 3008X

Diagrams







Main advantages

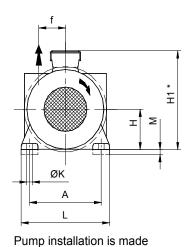
- Total tightness due to magnetic drive.
- Reliability and robustness due to massive manufacture design.
- Characteristics and dimensions that allow to substitute a HMP-N/S by a HMP-M without modification of pipes.
- Convertion kits avalaibles.
- Containment shroud without metal reinforcement or carbon eliminating all risks of heating by eddy current losses.
- Largely dimensioned magnets to eliminate risks of drop out of syncronization.
- Bearings issued from PROCESS construction relieving the containment shroud from all mechanical stresses.
- SiC sleeve bearing with anti-friction treatment ensuring a better behaviour in case of bad lubrication.
- Motors normalized as per IEC standards.

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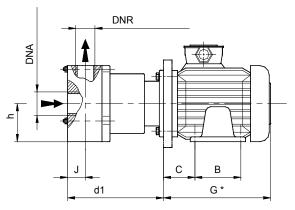


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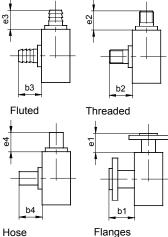


by the motor's fastening



Attention: If h<H, install shims under motor foot

Connections



b4	b1
se	Flanges
	n ØF
N	ØK S

ØΥ

l													
1	F	langes IS	2 PN16		Connection								
Т	DN	nØF	ØK	ØY	BSP threaded		Hose diameters for PVC pipes						
Į	32	4Ø14	100	140	1"1/4	30	40						
ł	40	4Ø18	110	150	1"1/2	-	50						
t	50	4Ø18	125	165	2"	-	63						
1	65	4018	145	185	2"1/2		75						

n = 2900 min ⁻¹

		Motors 3 phases - IP55																						
Types	Flanges		P	P Motors dimensions									Pumps dimensions											
	DN A	DN R	kW	A	В	С	G*	н	H1*	К	L	Masse	b1	b2	b3	b4	e1	e2	e3	e4	f	j	h	d1
32/125	40	32	1,1	125	100	50	215	80	203	9	157	9,7	60	50	60	40	55	45	55	34	52	38,5	80	215,5
32/125	-	-	2,2	140	125	56	245	90	223	10	172	16	-	-	-	-	-	-	-	-	-	-	-	230,5
	40	32	2,2	-	-	-	-	-	-	-	-	-	60	50	60	40	55	45	55	34	80	48	115	242
	-	-	3	160	140	63	290	100	238	12	196	20	-	-	-	-	-	-	-	-	-	-	-	255
32/180	-	-	4	190	140	70	290	112	250	12	220	24,4	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	5,5	216	140	89	350	132	280	12	250	34,4	-	-	-	-	-	-	-	-	-	-	-	283
	50	40	2,2	140	125	56	245	90	223	10	172	16	60	60	100	47	60	50	60	40	60	39	97,5	235
	-	-	3	160	140	63	290	100	238	12	196	20	-	-	-	-	-	-	-	-	-		-	248
40/150	-	-	4	190	140	70	290	112	250	12	220	24,4	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	5,5	216	140	89	350	132	280	12	250	34,4	-	-	-	-	-	-	-	-	-	-	-	276
	65	50	3	160	140	63	290	100	238	12	196	20	100				60				55	50	97,5	268
	-	-	4	190	-	70	-	112	250	-	220	24,4	-				-				-	-	-	-
50/150	-	-	5,5	216	-	89	350	132	280	-	250	34,4	-				-				-	-	-	296
	-	-	7.5	-	-	-	-	-	-	-	-	39	-				-				-	١.	-	-

n = 1450 min ⁻¹

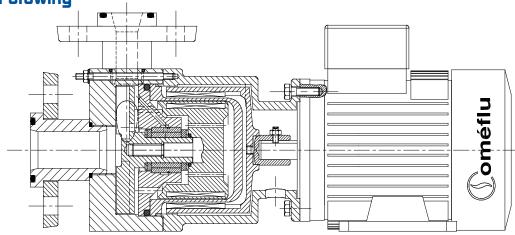
	Motors 3 phases - IP55																								
Types	Flar	iges	P		Motors dimensions										Pumps dimensions										
	DN A	DN R	kW	А	В	С	G*	Н	H1*	К	L	Masse	b1	b2	b3	b4	e1	e2	e3	e4	f	j	h	d1	
32/125	40	32	0,75	125	100	50	215	80	203	9	157	9,3	60	50	60	40	55	45	55	34	52	38,5	80	215,5	
32/180	40	32	1,1	140	100	56	218	90	223	10	172	11,5	60	50	60	40	55	45	55	34	80	48	115	242	
40/150	50	40	1,1			-					-		60	60	100	47	60	50	60	40	60	39	97,5	235	
50/150	65	50	2,2	160	140	63	290	100	238	12	196	20	100				60				55	50	97,5	268	

Dimensions in mm (subject to change)

Application fields

- Pumping of any clear and corrosive liquid without suspended matters, diluted or concentrated (H2SO4, HCI, NaOH)
- Unloading of trucks, tanks and containers.
- Installations of clear water treatment and chemicals process waste water.
- Surface treatment units, electroplating baths.
- Scrubbers.

Cross section drawing



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^{*}ATTENTION: subject to change depending on manufacturers. Weight pump+motor