

HCM PP/PVDF

THERMOPLASTIC MAG DRIVE
CENTRIFUGAL PUMPS

POMPE CENTRIFUGHE
A TRASCINAMENTO MAGNETICO
IN MATERIALI TERMOPLASTICI



■ MAIN FEATURES

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. 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.

- Materials available: PP / PVDF.
- Materials in contact with the liquid:
 - Pump head and impeller PP or PVDF;
 - O-ring EPDM (standard for PP pumps)
 - VITON (standard for PVDF pumps);
 - Shaft Al_2O_3 99,7%;
 - Bushing PTFEC.
- Max capacity: 130 m³/h.
- Max head: 48m.
- Max temperature: PP: 70°C –PVDF: 90°C.
- Flanged or threaded connections according to the pump size.
- Strong structure, maximum resistance to corrosive liquids.

■ OPTIONAL:

- Dry-running protection.

■ TYPICAL APPLICATIONS:

- High corrosive liquids.
- Toxic, noxious and carcinogenic liquids.

■ CARATTERISTICHE PRINCIPALI

Le pompe centrifughe a trascinamento magnetico serie HCM sono realizzate in materiali termoplastici (Polipropilene e PVDF) e grazie alla loro struttura estremamente resistente sono adatte per applicazioni con fluidi altamente corrosivi.

Il corpo pompa è ricavato dal pieno per una estrema resistenza in termini di pressione e temperatura e il moto è trasmesso tramite giunti magnetici senza alcuna tenuta meccanica.

Questo sistema a trascinamento magnetico garantisce la massima sicurezza ed efficienza riducendo al minimo rischi di perdite o emissioni.

- Materiali disponibili: PP / PVDF.
- Materiali a contatto con il liquido:
 - Corpo e girante PP/PVDF;
 - O-ring EPDM (standard per pompe PP)
 - VITON (standard per pompe PVDF);
 - Albero statico Al_2O_3 99,7 %;
 - Boccola rotante PTFEC.
- Portata massima: 130 m³/h.
- Prevalenza massima: 48m.
- Temperatura max d'esercizio PP 70°C – PVDF 90°C.
- Fornite con attacchi flangiati o filettati a seconda della grandezza.
- Struttura resistente anche ai liquidi più corrosivi.

■ OPTIONAL:

- Dispositivo contro la marcia a secco.

■ APPLICAZIONI TIPICHE:

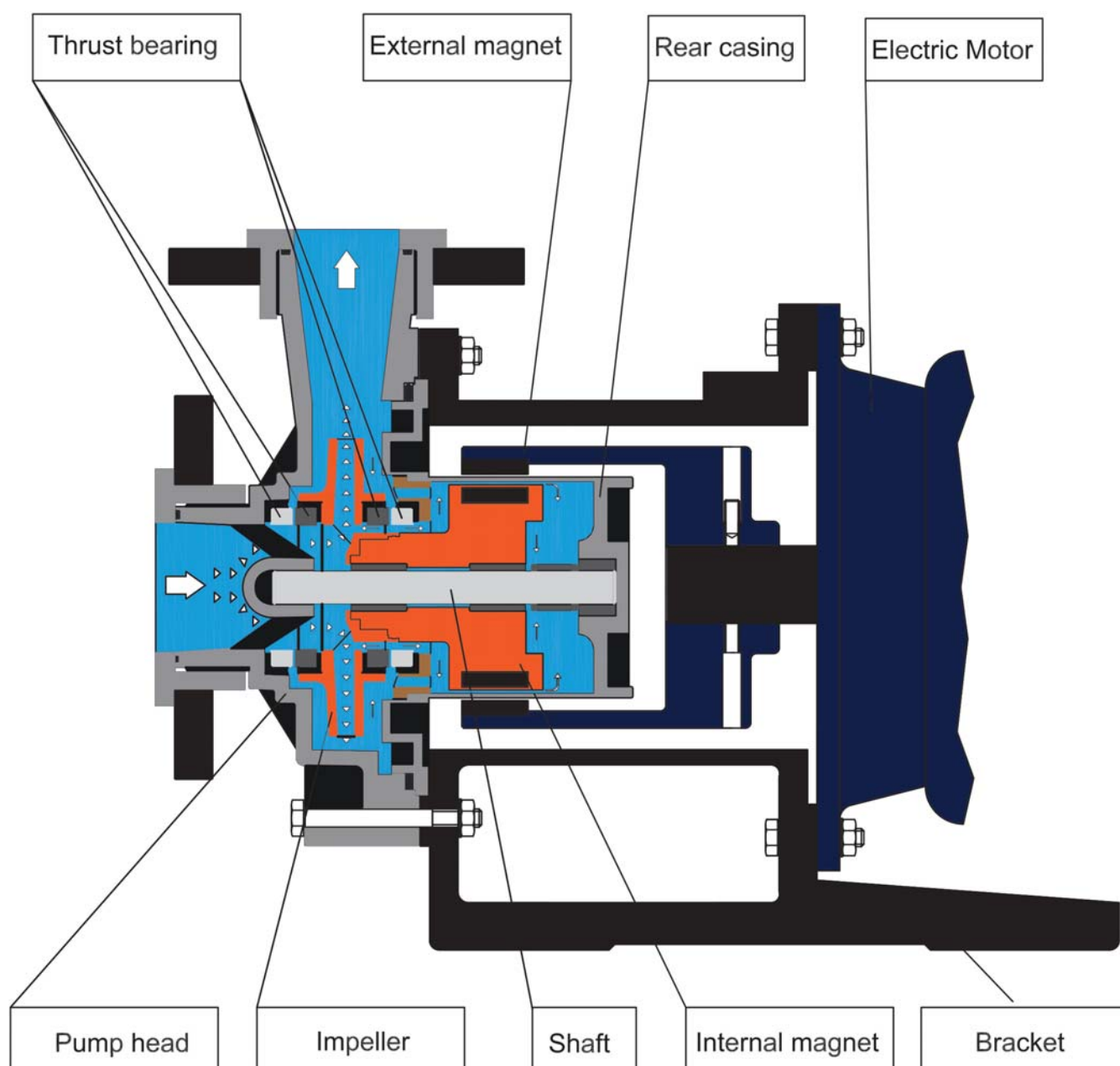
- Liquidi altamente corrosivi.
- Liquidi tossici, nocivi, cancerogeni.

MAGNETIC DRIVE PUMPS

POMPE A TRASCINAMENTO MAGNETICO

Mag drive pumps have a particular sealless design that is suitable to pump corrosive and dangerous liquids thanks to the high chemical resistance and absence of leakage and emissions. The structure is really simple so that the pump requires a very reduced maintenance with consequent save in terms of repairing and spare parts costs during the pump life. The external magnet placed on the drive shaft transmits the motion to the internal magnet connected to the impeller which rotates and moves the fluid through the pump.

Le pompe a trascinamento magnetico presentano un design particolare senza alcuna tenuta meccanica che risulta particolarmente adatto al pompaggio di liquidi corrosivi e pericolosi grazie all'elevata resistenza chimica e all'assenza di perdite di liquido pompato o emissioni. La struttura è molto semplice e richiede una manutenzione veramente ridotta con conseguente risparmio in termini di costo di riparazioni e ricambi durante la vita della pompa. Il moto è trasmesso tramite il magnete esterno accoppiato direttamente sull'albero motore al magnete interno. Quest'ultimo è collegato alla girante che ruotando sull'albero movimentata il fluido.

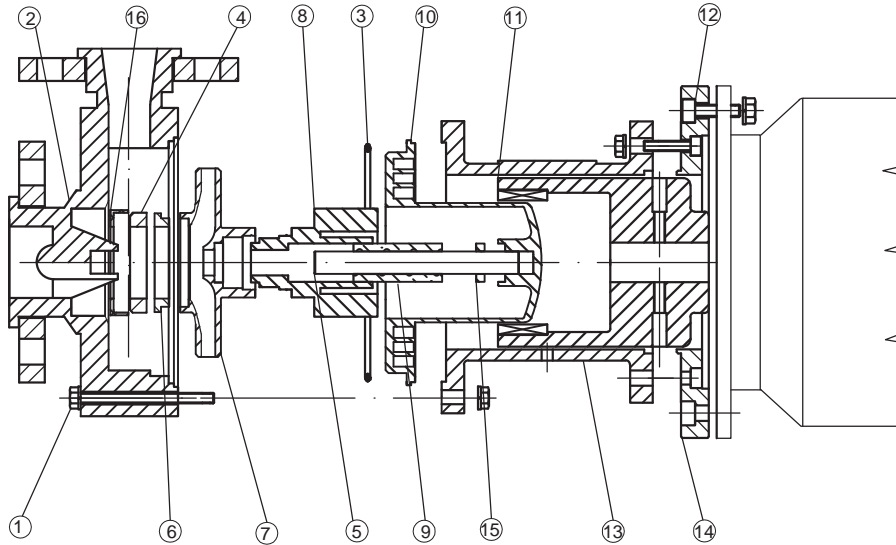


HCM PP/PVDF

SECTIONS AND PARTS LIST

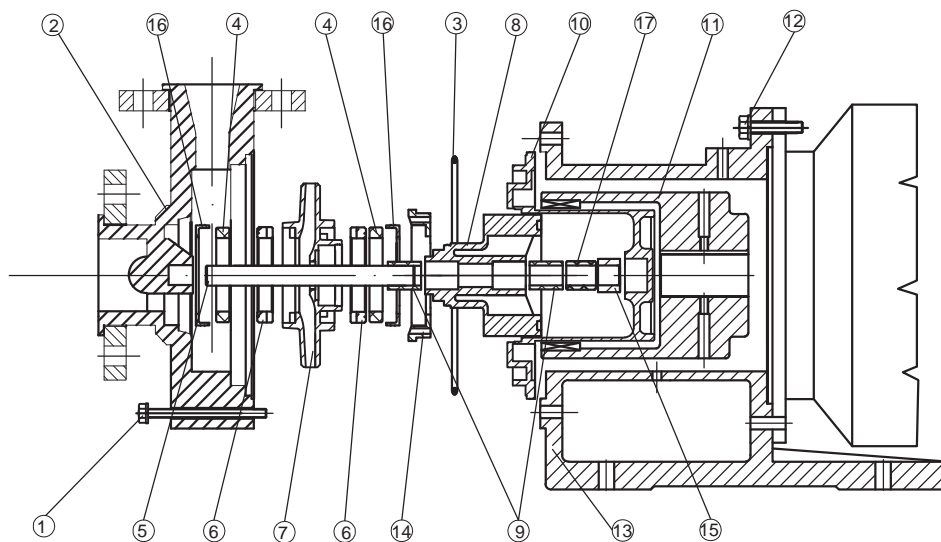
SEZIONI E LISTA PARTI

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



POS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PART DESCR.	SET SCREWS	PUMP HEAD	O-RING	STATIC RING	SHAFT	ROTATING RING	IMPELLER	INT. MAGNET	INT. MAGNET RING	REAR CASING	EXT. MAGNET	SET SCREWS	BRACKET	CONNECTION FLANGE	REAR RING	GLOVE
MATERIALS	AISI304	PP PVDF	EPDM VITON	Al ₂ O ₃	Al ₂ O ₃	PTFEC	PP PVDF	PP PVDF NeFeb	PTFEC	PP PVDF	AVP NeFeb	AISI304	Cast Iron Aluminium	AISI304	Al ₂ O ₃	EPDM VITON

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



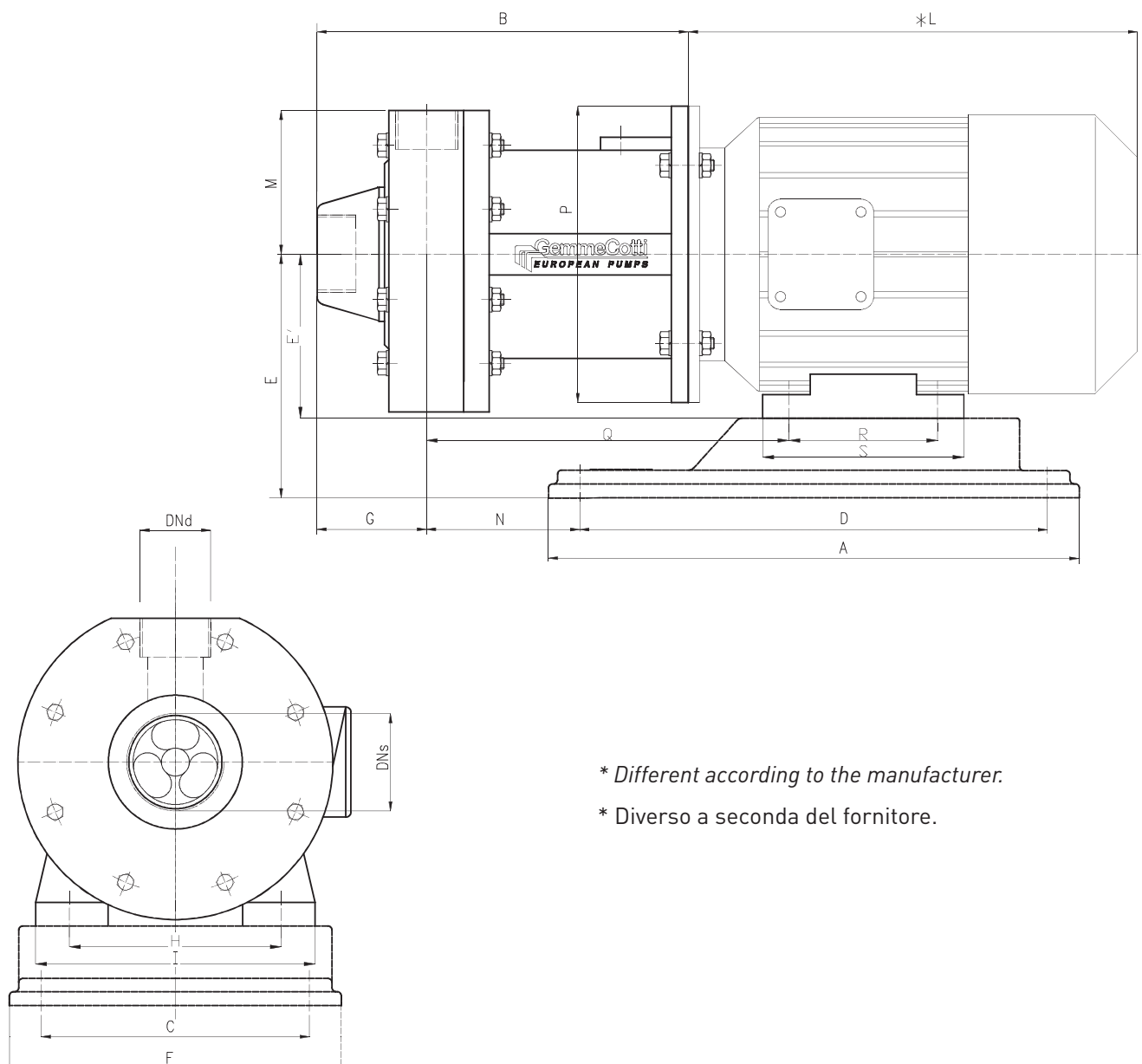
POS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PART DESCR.	SET SCREWS	PUMP HEAD	O-RING	STATIC RING	SHAFT	ROTATING RING	IMPELLER	INT. MAGNET	INT. MAGNET RING	REAR CASING	EXT. MAGNET	SET SCREWS	BRACKET	FLANGE	REAR BEARING	GLOVE	BUSHING
MATERIALS	AISI304	PP PVDF	EPDM VITON	Al ₂ O ₃	Al ₂ O ₃	PTFEC	PP PVDF	PP PVDF NeFeb	PTFEC	PP PVDF	AVP NeFeb	AISI304	Cast Iron Aluminium	PP PVDF	PTFEC-25% C	EPDM VITON	PTFEC

HCM PP/PVDF

DIMENSIONS

DIMENSIONI D'INGOMBRO

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



* Different according to the manufacturer.

* Diverso a seconda del fornitore.

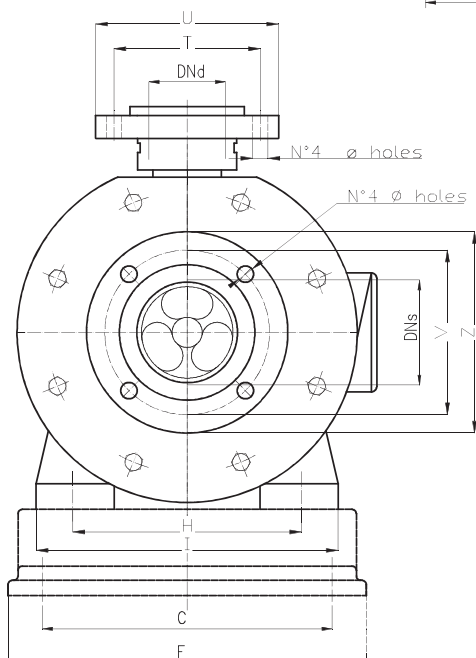
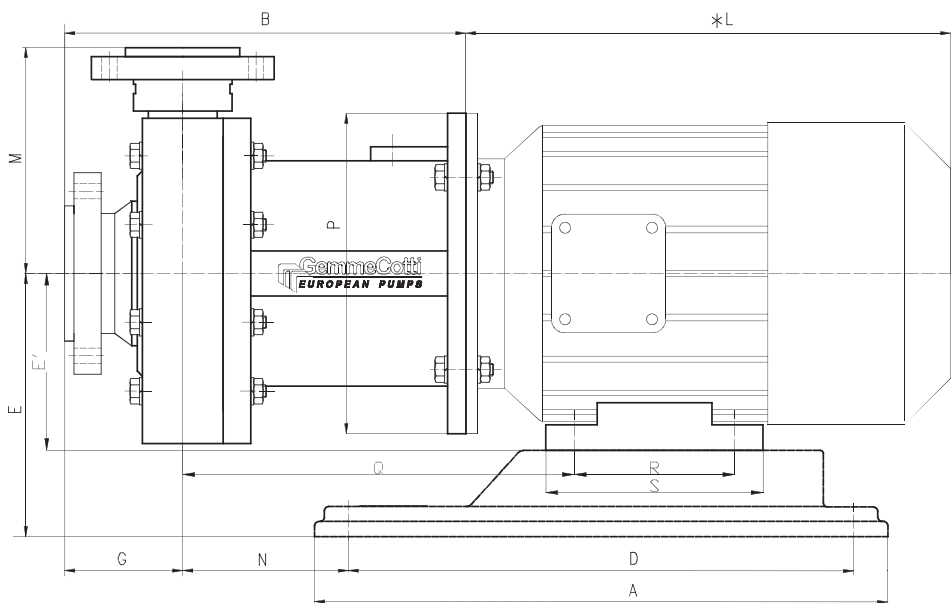
PUMP TYPE	MOTOR FLANGE B3-B5	POT. Kw	DIMENSIONS - mm -																	FILETTATURA - in	
			A	B	C	D	E	E'	F	G	H	I	*L	M	N	P	Q	R	S	DNs	DNd
HCM 32-25	G 71	0.55	280	180	130	244	119	71	160	65	112	140	260	101	45	158.5	157	90	110	1 1/2"	1"
HCM 40-32	G 80	1.1	350	221	146	302	140	80	205	70	125	160	280	142	114	200	234	100	130	1 1/2"	1 1/4"
	G 90	1.5		231			150	90			140	180			108		240	125	160		
HCM 50-40	G 90	2.2	350	268	146	302	150	90	205	84	140	180	280	105	108	200	240	125	160	2"	1 1/2"
	G 100	3			400	202	352	160	100		250	160	200		316	107	250	247	140		

HCM PP/PVDF

DIMENSIONS

DIMENSIONI D'INGOMBRO

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



* Different according to the manufacturer.

* Diverso a seconda del fornitore.

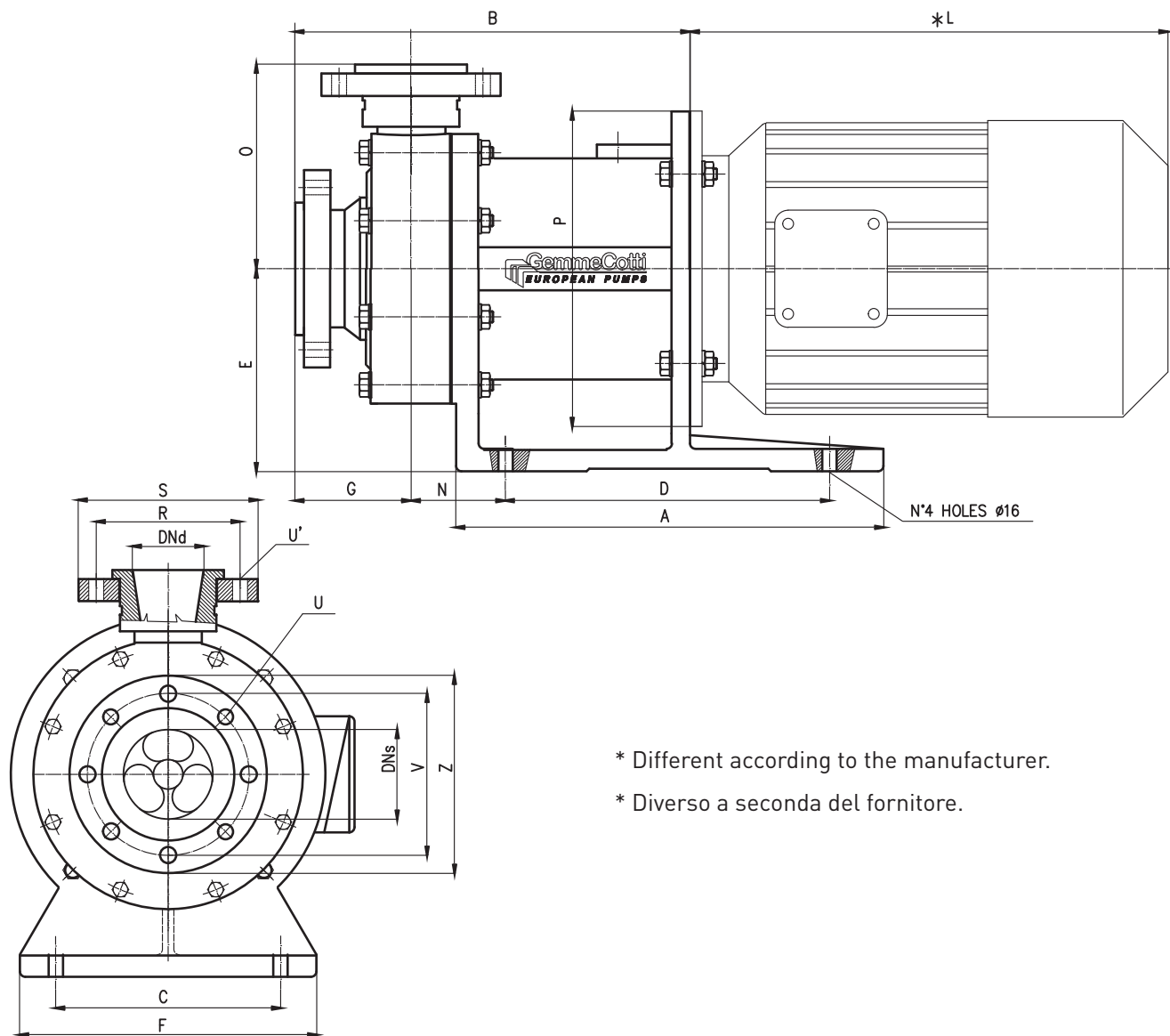
PUMP TYPE	MOTOR FLANGE B3-B5	POT. Kw	DIMENSIONS - mm -															FLANGES DIN PN10 - DIMENSIONS - mm								
			A	B	C	D	E	E'	F	G	H	I	*L	M	N	P	Q	R	S	T	U	V	Z	DNs	DNd	ø holes
HCM 32-25	G 71	0.55	280	187	130	244	119	71	160	75	112	140	260	115	45	158.5	157	90	110	85	117	100	143	32	25	14
HCM 40-32	G 80	1.1	350	236	146	302	140	80	205	85	125	160	280	142	114	200	234	100	130	100	143	110	153	40	32	14
	G 90	1.5		246			150	90			140	180			108		240	125	160							
HCM 50-40	G 90	2.2	350	268	146	302	150	90	205	84	140	180	280	149	108	200	240	125	160	110	153	125	168	50	40	18
	G 100	3					400	202			352	160			100		250	160	200							
HCM 65-50-L	G 112	4	400	331	202	352	172	112	250	103	190	230	324	171	142	250	298	140	195	125	168	145	188	65	50	18

HCM PP/PVDF

DIMENSIONS

DIMENSIONI D'INGOMBRO

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



* Different according to the manufacturer.

* Diverso a seconda del fornitore.

PUMP TYPE	MOTOR FLANGE B5	POT. Kw	DIMENSIONS - mm -										FLANGES DIN PN 10-DIMENSIONS - mm -								
			A	B	C	D	E	F	G	*L	N	O	P	R	S	U	U'	V	Z	DN s	DNd
HCM 65-50-H	G 132	5.5	365	351	216	250	192	274	103	383	98	171	300	125	168	n°4 fori Ø18	n°4 fori Ø18	145	188	65	50
	G 132	7.5								421											
	G 132	9								421											
HCM 80-65	G 132S2	7.5	475	430	250	360	225	330	121	421	105	198	300	145	188	n°8 fori Ø18	n°4 fori Ø18	160	200	80	65
	G 160M2A	11								510											
	G 160M2B	15								554											
	G 160L2	18.5								554											
HCM 100-80	G 160M2A	11	475	440	250	360	225	330	129	510	105	227	350	160	200	n°8 fori Ø18	n°8 fori Ø18	180	220	100	80
	G 160M2B	15								554											
	G 160L2	18.5								595											
	G 180M2	22								595											

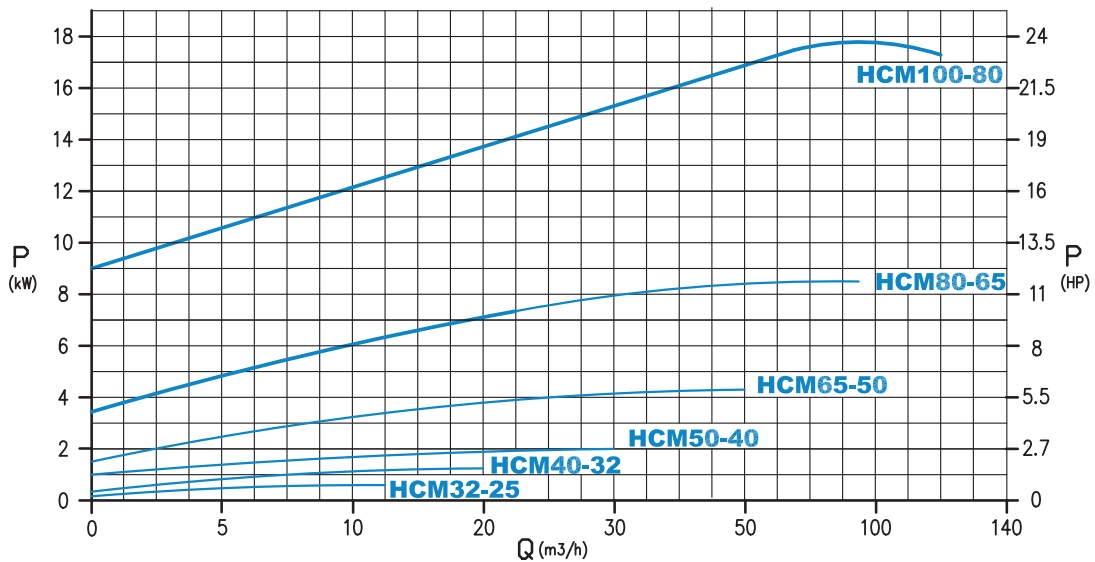
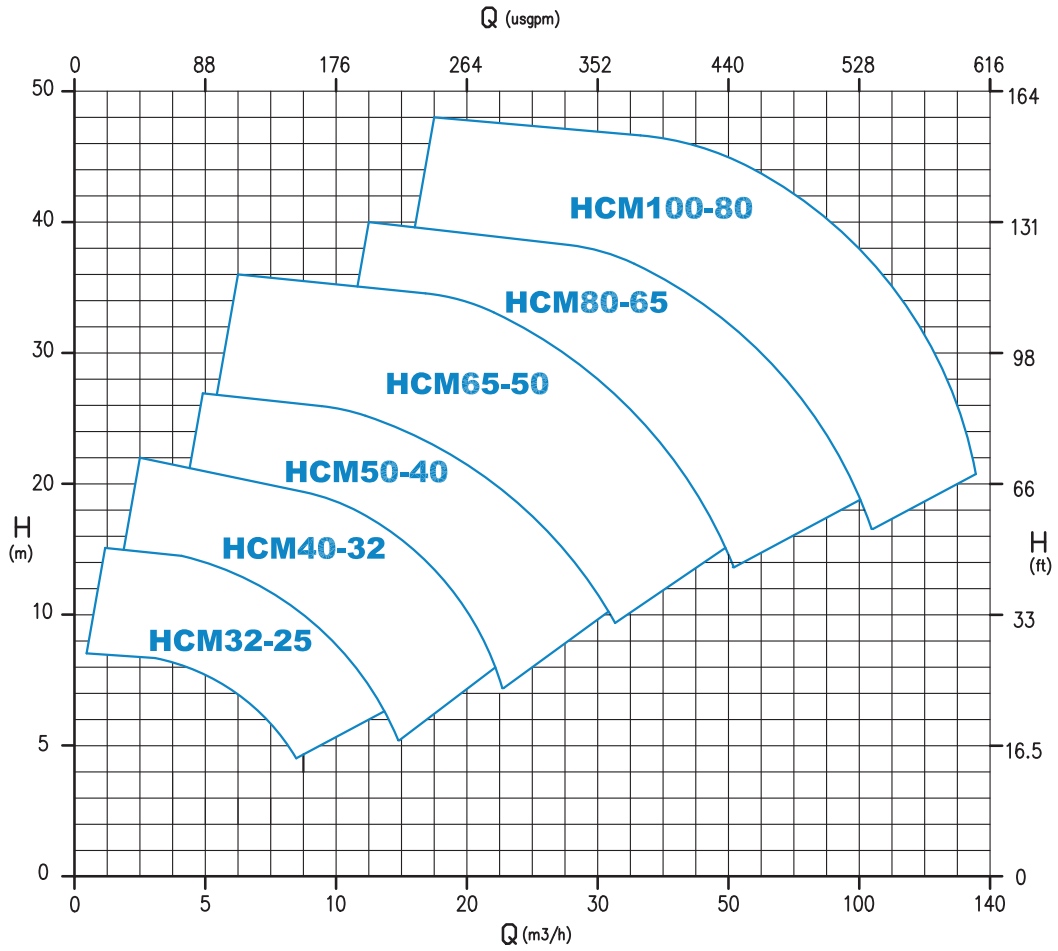
HCM PP/PVDF

CURVES

CURVA



HCM - 50Hz - RPM 2900



RANGE OF PRODUCTION PANORAMA PRODUTTIVO

HTM PP/PVDF



**MAG-DRIVE
CENTRIFUGAL PUMPS**

- Q max: 45 m³/h - H max: 33 mlc
- Materials: PP / PVDF

HTM SS



**MAG-DRIVE
CENTRIFUGAL PUMPS**

- Q max: 32 m³/h - H max: 24 mlc
- Materials: AISI 316

PVA



**VERTICAL CENTRIFUGAL
CANTILEVER PUMPS**

- Q max: 24 m³/h - H max: 26 mlc
- Materials: AISI 316 / TITANIUM

HTT



**MAG-DRIVE
REGENERATIVE TURBINE PUMPS**

- Q max: 9 m³/h - H max: 50 mlc
- Materials: PP / PVDF

HTA



**MAG-DRIVE
REGENERATIVE TURBINE PUMPS**

- Q max: 7 m³/h - H max: 80 mlc
- Materials: AISI 316 / HASTELLOY-C
TITANIUM

HV



**VERTICAL
CENTRIFUGAL
MONOBLOC PUMPS**

- Q max: 40 m³/h
- H max: 22 mlc
- Materials: PP / PVDF

HPP - HPF



**MAG-DRIVE
VANE PUMPS**

- Q max: 1000 l/h - H max: 5 bar
- Materials: PP / PVDF

HTP



**ROTARY VANE
MAG-DRIVE PUMPS DRY SELF-PRIMING**

- Q max: 2100 l/h - H max: 13 bar
- Materials: AISI 316 L / HASTELLOY-C
TITANIUM

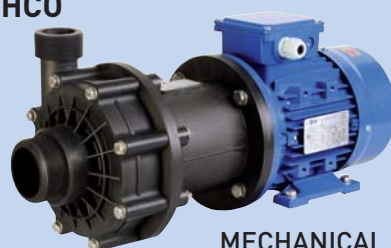
HVL



**VERTICAL
CENTRIFUGAL PUMPS
OPEN IMPELLER**

- Q max: 57 m³/h
- H max: 39 mlc
- Materials: PP / PVDF

HCO



**MECHANICAL SEAL
CENTRIFUGAL PUMPS**

- Q max: 58 m³/h - H max: 38 mlc
- Materials: PP / PVDF

VPM / VPS / VPL



**LIQUID RING
VACUUM PUMPS**

- Q max: 450 m³/h - H max: 33 mbar
- Materials: AISI 316/316 L SS / ALLOY
HASTELLOY-C / TITANIUM