

## HTT PP/PVDF

THERMOPLASTIC MAG DRIVE  
REGENERATIVE TURBINE PUMPS

POMPE A TURBINA RIGENERATIVA  
A TRASCINAMENTO MAGNETICO  
IN MATERIALI TERMOPLASTICI



Mag drive regenerative turbine pumps series HTT are made of thermoplastic materials (polypropylene-PP and PVDF) and are suitable to pump high corrosive liquids. Thanks to the innovative mag drive system, pumps model HTT reduce risks of leakage and emissions and the maintenance costs. The transmission of the motion occurs through magnetic joints without any mechanical seal. This sealless design guarantees the maximum safety and efficiency. The pumped liquid has to be clean and without solids in suspension.

### ■ MAIN FEATURES

- Materials available: PP / PVDF;
- Plastic injection moulded;
- Materials in contact with the liquid:  
Casing and rear casing: PP/PVDF; Impeller: PVDF;  
O-ring: EPDM (standard for PP pumps),  
VITON (standard for PVDF pumps)  
Shaft: Al<sub>2</sub>O<sub>3</sub> 99,7%;  
Bearing: PTFEC
- Max flow: 9 m<sup>3</sup>/h; Max head 50 mlc;
- Temperature: PP: max 70°C – PVDF: max 90°C;
- Max viscosity: 40 cPs;
- Pressure rating: NP 6;
- It handles up to 20% entrained gas.  
HTT pump resists cavitation.

### ■ STANDARD:

- Gas threaded In and Out connections;
- Static shaft in high purity ceramic;
- Chemical resistant PTFE/carbon sleeve bearings;
- High torque magnetic coupling;
- Direct starting motor.

### ■ OPTIONAL:

- DIN or ANSI 150 flanges available;
- Baseplate;
- Dry-running protection.

Le pompe a turbina rigenerativa a trascinamento magnetico della serie HTT sono realizzate in materiali termoplastici (PP-polipropilene e PVDF) e sono adatte al pompaggio di liquidi altamente corrosivi. Grazie all'innovativo sistema a trascinamento magnetico le pompe HTT riducono al minimo i rischi di perdite ed emissioni e i costi di manutenzione. La trasmissione del moto, infatti, avviene tramite giunti magnetici senza l'utilizzo di tenute meccaniche garantendo la massima sicurezza ed efficienza. Il liquido pompato deve necessariamente essere pulito senza solidi in sospensione.

### ■ CARATTERISTICHE

- Materiali disponibili: PP / PVDF
- Pompa in materiali plastici stampati;
- Materiali a contatto con il liquido:  
Corpo e bicchiere: PP/PVDF - Girante: PVDF;  
O-ring EPDM (standard per pompe in PP);  
VITON (standard per pompe in PVDF);  
Albero statico: Al<sub>2</sub>O<sub>3</sub> 99,7%; Boccola: PTFEC;
- Portata fino a 9 m<sup>3</sup>/h; Prevalenza fino a 50 mcl;
- Temperatura massima di esercizio:  
PP: 70°C – PVDF: 90°C;
- Viscosità massima: 40 cPs;
- Pressione nominale massima: PN 6;
- Può pompare liquidi con presenza di gas fino al 20%; Resiste alla cavitazione.

### ■ STANDARD:

- Attacchi aspirazione e mandata filettati gas;
- Albero statico in allumina pura;
- Boccole rotanti in PTFE grafite ad alta resistenza chimica;
- Elevata coppia magnetica;
- Avviamento diretto.

### ■ OPTIONAL:

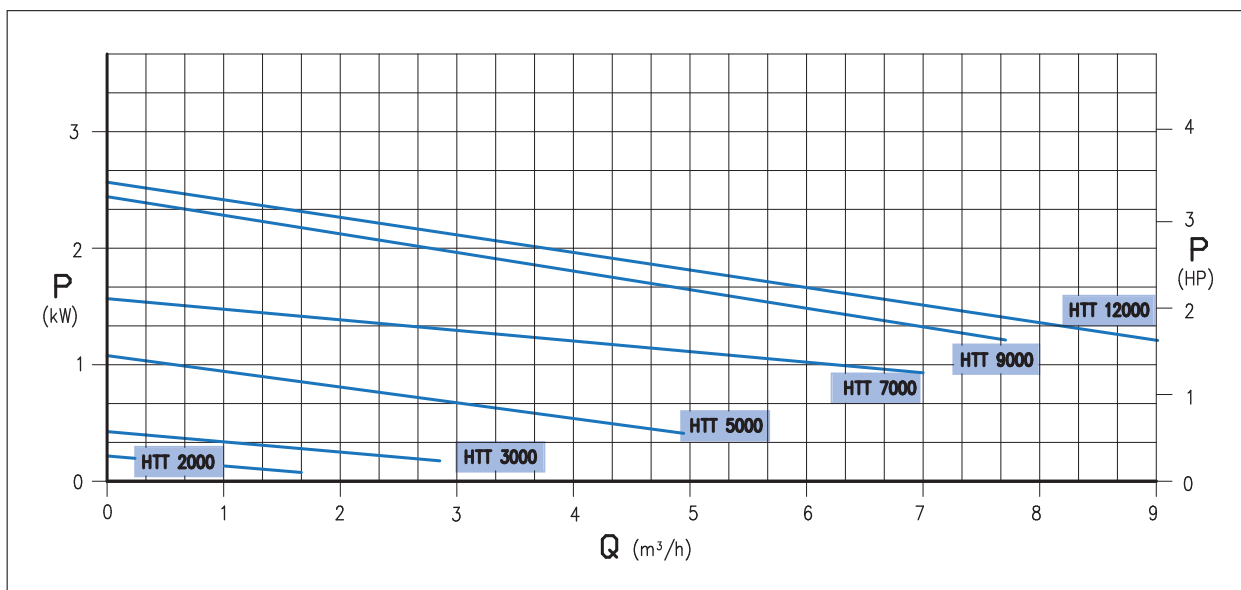
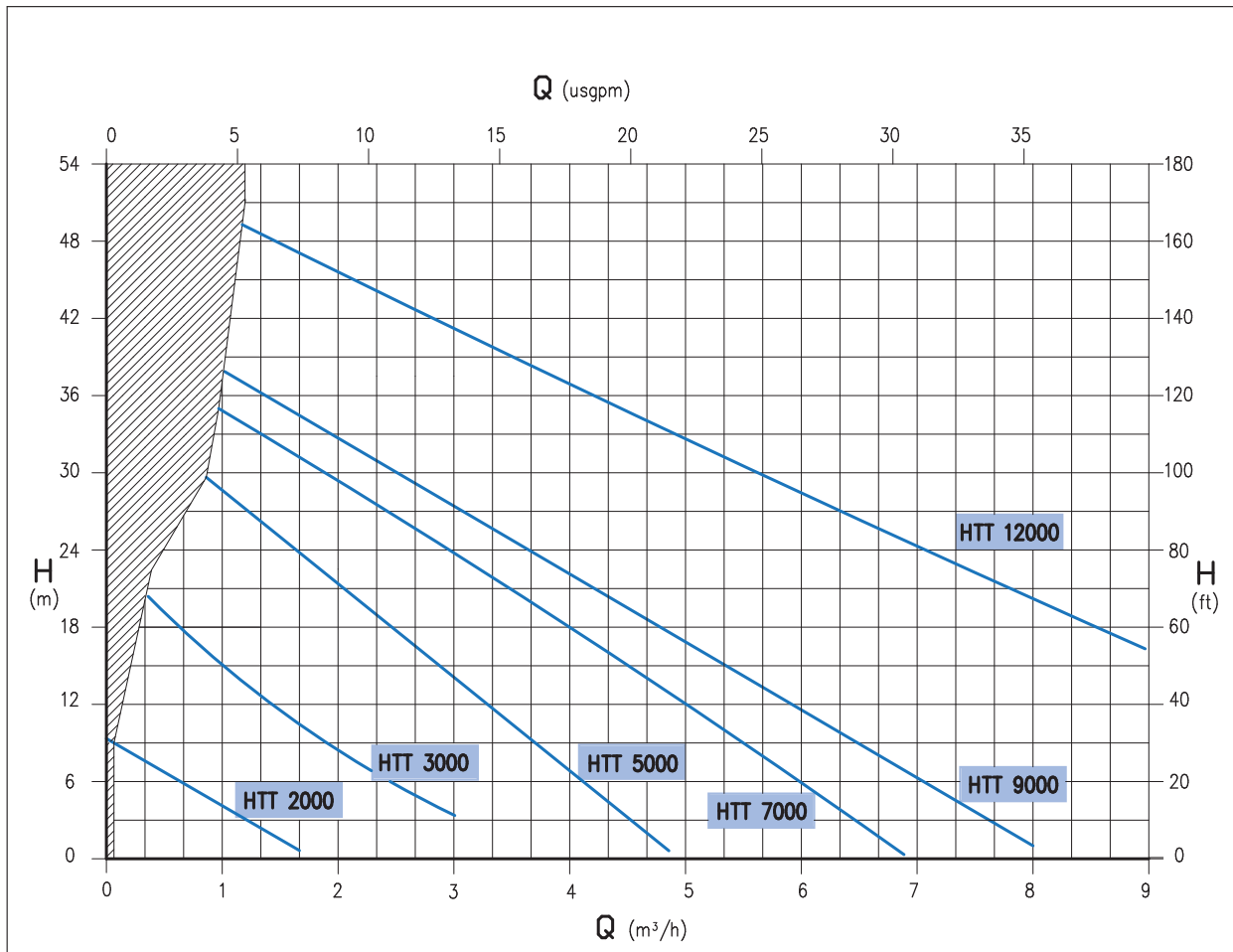
- Flange DIN o ANSI 150;
- Piede d'appoggio;
- Dispositivo contro la marcia a secco.

# HTT PP/PVDF

CURVES

CURVE

## 50Hz - RPM 2900

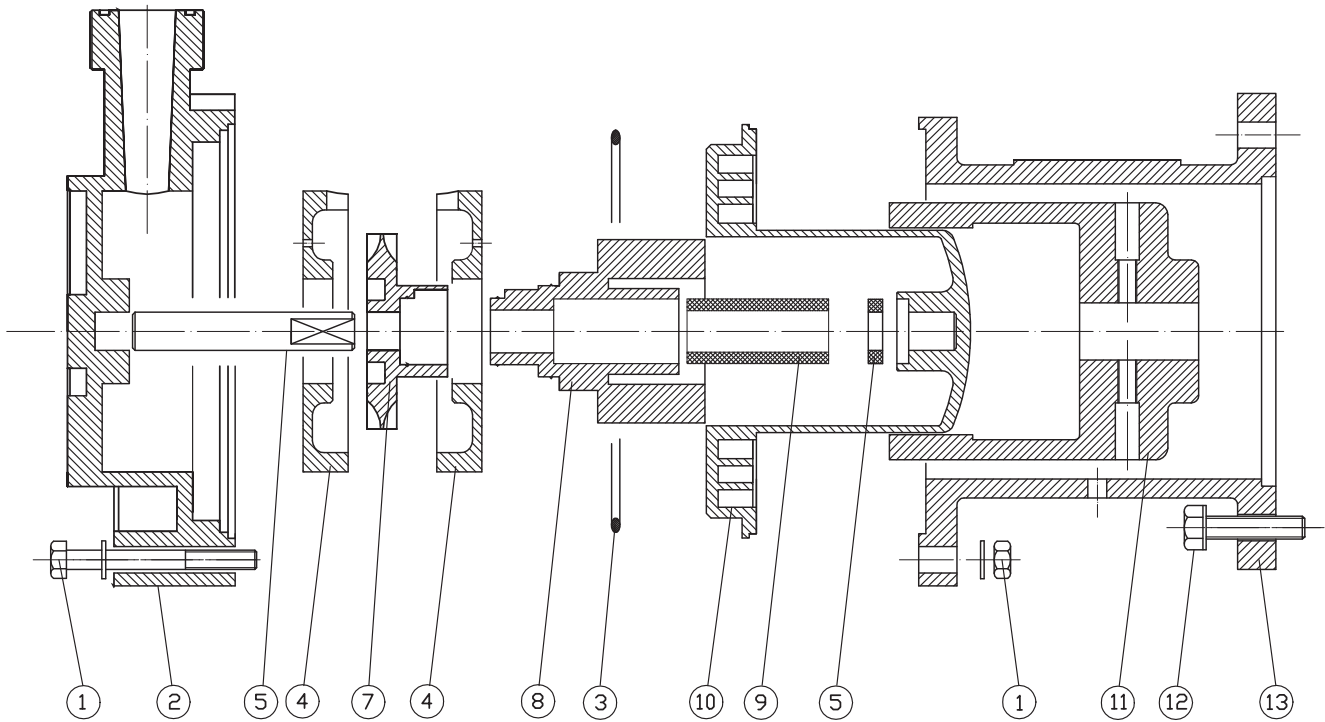


# HTT PP/PVDF

SECTIONS AND PARTS LIST

SEZIONI E LISTA PARTI

## HTT 2000 - 3000 - 5000 - 7000 - 9000 - 12000 PP/PVDF



POS.	1	2	3	4	5	7	8	9	10	11	12	13
PART. DESCR.	SET SCREWS	PUMP HEAD	O - RING	FRONT AND REAR DISC	SHAFT + RING	IMPELLER	INT. MAGNET	BEARING	REAR CASING	EXT. MAGNET	SCREWS	BRACKET
MATERIALS	AISI 304	PP PVDF	EPDM VITON	PP PVDF	Al <sub>2</sub> O <sub>3</sub>	PVDF	PP PVDF NdFeb	PTFEC	PP PVDF	C40 NdFeb	AISI 304	PP

# HTT PP/PVDF

## DIMENSIONS

## DIMENSIONI D'INGOMBRO

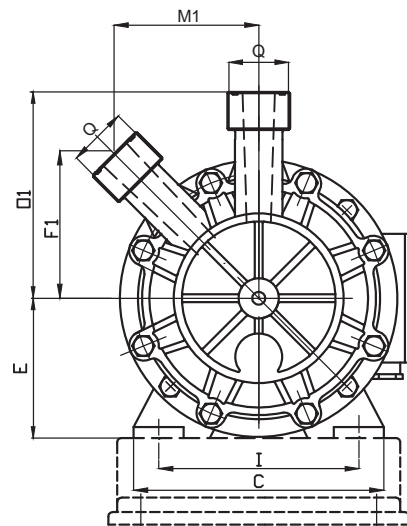
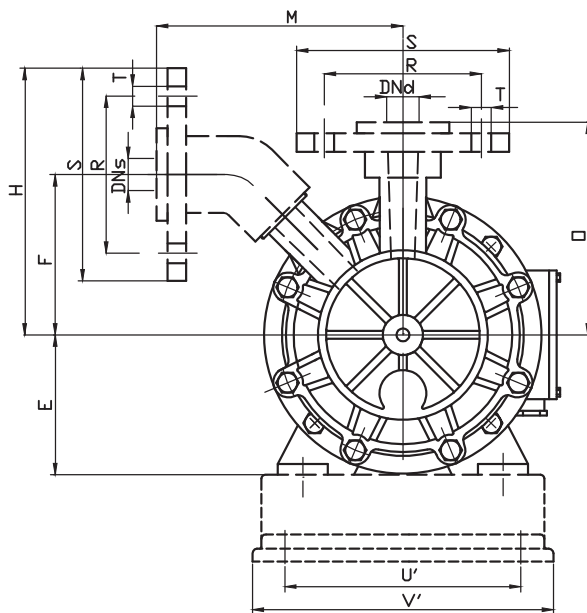
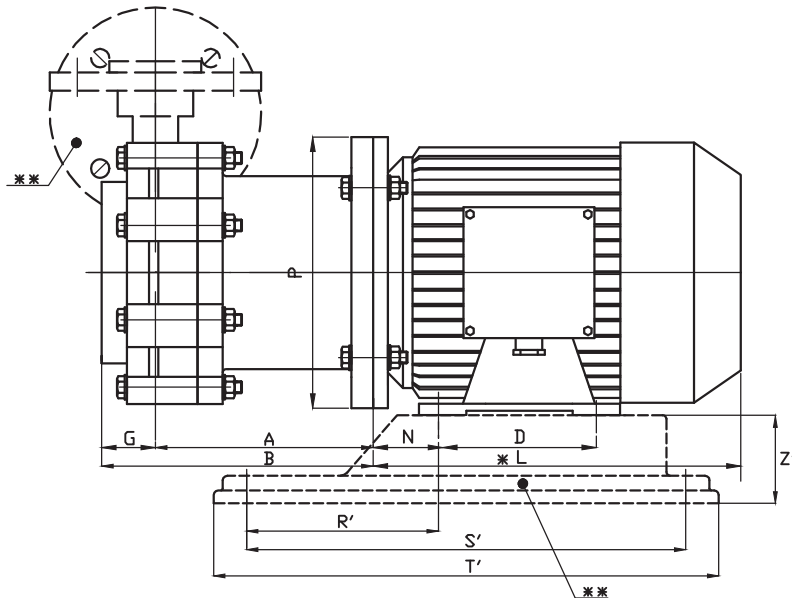
### HTT 2000 - 3000 - 5000 - 7000 - 9000 - 12000 PP/PVDF

NOTE:  
DIRECTION OF ROTATION IS COUNTER CLOCKWISE  
AS SEEN WHEN FACING THE MOTOR.  
PUMPS AVAILABLE THREADED OR FLANGED.

THE DIMENSION'S ARE PURE INDICATIVE AND CAN BE  
CHANGED WITHOUT PRIOR NOTICE.

PUMP TYPE	FLANGES DIMENSIONS - mm -				
	R	S	T	DN <sub>s</sub>	DN <sub>d</sub>
HTT 2000	85	115	14	25	25
HTT 3000	85	115	14	25	25
HTT 5000	110	153	18	40	40
HTT 7000	110	153	18	40	40
HTT 9000	110	153	18	40	40
HTT 12000	110	153	18	40	40

FLANGES DIN PN 10
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PUMP TYPE	MOTOR FLANGE B3 - B5	POT. Kw	DIMENSIONS - mm -																	BASEPLATE DIMENSIONS - mm -						
			A	B	C	D	E	F	F1	G	H	I	*L	M	M1	N	O	O1	P	Q	R'	S'	T'	U'	V'	Z'
HTT 2000	G 71 A	0.37	118	146	142	90	71	86	78	28	145	112	192	135	78	45	116	110	160	1" MALE	112	244	280	130	160	48
	G 71 B	0.55											192							1" MALE						
HTT 3000	G 71 A	0.37	118	146	142	90	71	86	78	28	145	112	215	135	78	45	116	110	160	1" MALE	112	244	280	130	160	48
	G 71 B	0.55											215							1" MALE						
HTT 5000	G 80 A	0.75	187	221	160	100	80	110	95	34	187	125	232	189	95.5	50	148	135	200	1 1/2" G MALE	120	302	350	157	205	60
	G 80 B	1.1											232							1 1/2" G MALE						
HTT 7000	G 80 B	1.1	187	221	160	100	80	110	95	34	187	125	232	189	95.5	50	148	135	200	1 1/2" G MALE	120	302	350	157	205	60
	G 90 S	1.5				100	90						255							1 1/2" G MALE	132	302	350	157	205	60
	G 90 L	2.2				170	125	90					280							1 1/2" G MALE	132	302	350	157	205	60
HTT 9000	G 90 L	2.2	187	221	170	125	90	110	95	34	187	140	280	189	95.5	56	148	135	200	1 1/2" G MALE	132	302	350	157	205	60
	G 100	3	207	241	200	140	100						315						250	1 1/2" G MALE	140	352	400	202	250	60
HTT 12000	G 100 L	3	207	241	200	140	100	110	95	34	187	160	315	189	95.5	63	148	135	250	1 1/2" G MALE	140	352	400	202	250	60
	G 112 M	4			230	140	112						324			70				1 1/2" G MALE	156	352	400	202	250	60

\* Different according to the manufacturer / Diverso a seconda del fornitore

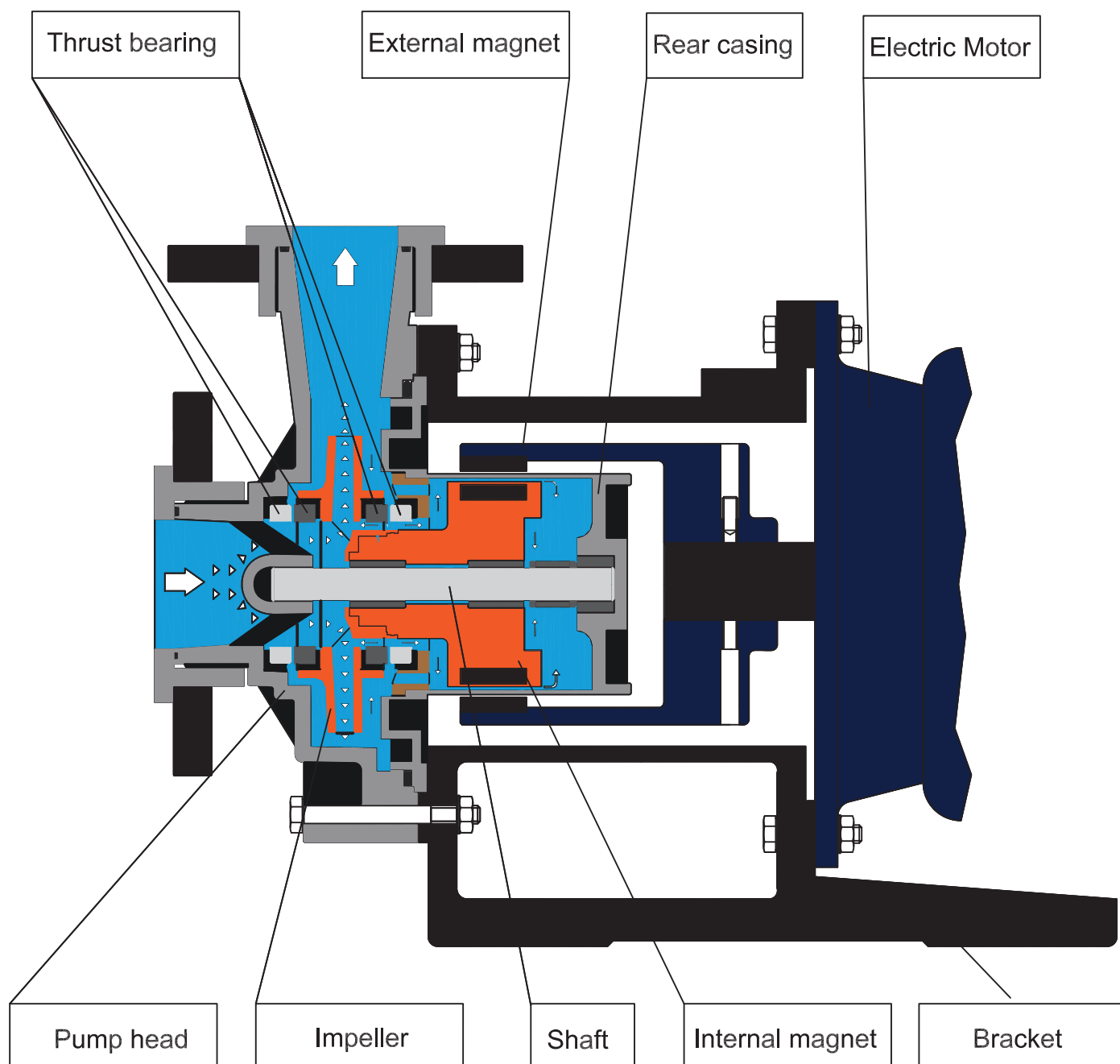
\*\* Optional - Upon request: Baseplate - Flanges / Su richiesta: Piede d'appoggio - Flange

# 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.



# RANGE OF PRODUCTION PANORAMA PRODUTTIVO

## HTM PP/PVDF



**MAG-DRIVE  
CENTRIFUGAL PUMPS**

- Q max: 45 m<sup>3</sup>/h - H max: 33 mlc
- Materials: PP / PVDF

## HTM SS



**MAG-DRIVE  
CENTRIFUGAL PUMPS**

- Q max: 32 m<sup>3</sup>/h - H max: 24 mlc
- Materials: AISI 316

## PVA



**VERTICAL CENTRIFUGAL  
CANTILEVER PUMPS**

- Q max: 24 m<sup>3</sup>/h - H max: 26 mlc
- Materials: AISI 316 / TITANIUM

## HTT



**MAG-DRIVE  
REGENERATIVE TURBINE PUMPS**

- Q max: 9 m<sup>3</sup>/h - H max: 50 mlc
- Materials: PP / PVDF

## HTA



**MAG-DRIVE  
REGENERATIVE TURBINE PUMPS**

- Q max: 7 m<sup>3</sup>/h - H max: 80 mlc
- Materials: AISI 316 / HASTELLOY-C  
TITANIUM

## HV



**VERTICAL  
CENTRIFUGAL  
MONOBLOC PUMPS**

- Q max: 40 m<sup>3</sup>/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

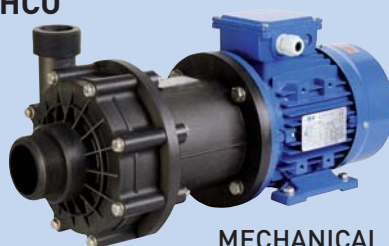
## HVL



**VERTICAL  
CENTRIFUGAL PUMPS  
OPEN IMPELLER**

- Q max: 57 m<sup>3</sup>/h
- H max: 39 mlc
- Materials: PP / PVDF

## HCO



**MECHANICAL SEAL  
CENTRIFUGAL PUMPS**

- Q max: 58 m<sup>3</sup>/h - H max: 38 mlc
- Materials: PP / PVDF

## VPM / VPS / VPL



**LIQUID RING  
VACUUM PUMPS**

- Q max: 450 m<sup>3</sup>/h - H max: 33 mbar
- Materials: AISI 316/316 L SS / ALLOY  
HASTELLOY-C / TITANIUM