

# HTM PP/PVDF

THERMOPLASTIC MAG DRIVE  
CENTRIFUGAL PUMPS

POMPE CENTRIFUGHE  
A TRASCINAMENTO MAGNETICO  
IN MATERIALI TERMOPLASTICI



## MAIN FEATURES

Mag drive centrifugal pumps series HTM PP/PVDF are made of thermoplastic materials (Polypropylene and PVDF) and are suitable for high corrosive liquids. Thanks to the innovative mag drive system, pumps model HTM PP/PVDF reduce the risks of leakage and emissions and the maintenance costs.

The transmission of the motion occurs through magnetic joints without any mechanical seal and this design guarantees the maximum safety and efficiency. The pumped liquid has to be clean and without solids in suspension.

- Materials available: PP / PVDF;
- Materials in contact with the liquid:  
Casing and impeller: PP/PVDF;  
O-ring: EPDM (standard for PP pumps);  
VITON (standard for PVDF pumps);  
Static shaft: Al<sub>2</sub>O<sub>3</sub> 99,7 %; Bushing PTFEC;
- Max flow: 45 m<sup>3</sup>/h; Max head 33 mlc;
- Temperature: PP: max 70°C – PVDF: max 90°C;
- Max viscosity: 200 cSt;
- Pressure rating: NP 4 at 20°C;
- High torque magnetic coupling NeFeBo standard;
- Suitable for high corrosive liquids.

## STANDARD:

- Gas threaded In and Out connections;
- Direct starting motor.

## OPTIONAL:

- Flanges available;
- Dry-running protection;
- Baseplate;
- Silicon carbide sleeve bearing.
- HTM pumps are available also for NEMA motors and with NPT connections.

## CARATTERISTICHE

Le pompe centrifughe a trascinamento magnetico serie HTM PP/PVDF sono realizzate in materiali termoplastici (Polipropilene e PVDF) e sono adatte al pompaggio di liquidi altamente corrosivi. Grazie all'innovativo sistema a trascinamento magnetico le pompe HTM PP/PVDF riducono al minimo i rischi di perdite ed emissioni e i costi di manutenzione. La trasmissione del moto avviene infatti 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.

- 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<sub>2</sub>O<sub>3</sub> 99,7 %;
- Boccola rotante: PTFEC;
- Portata fino a 45 m<sup>3</sup>/h; Pressione fino a 33 mcl;
- Temperatura massima di esercizio:  
PP: 70°C – PVDF: 90°C;
- Viscosità massima: 200 cSt;
- Pressione nominale massima: PN 4 a 20°C;
- Elevata coppia magnetica NeFeBo standard;
- Adatte al pompaggio di liquidi altamente corrosivi.

## STANDARD:

- Attacchi aspirazione e mandata filettati gas;
- Avviamento diretto.

## OPTIONAL:

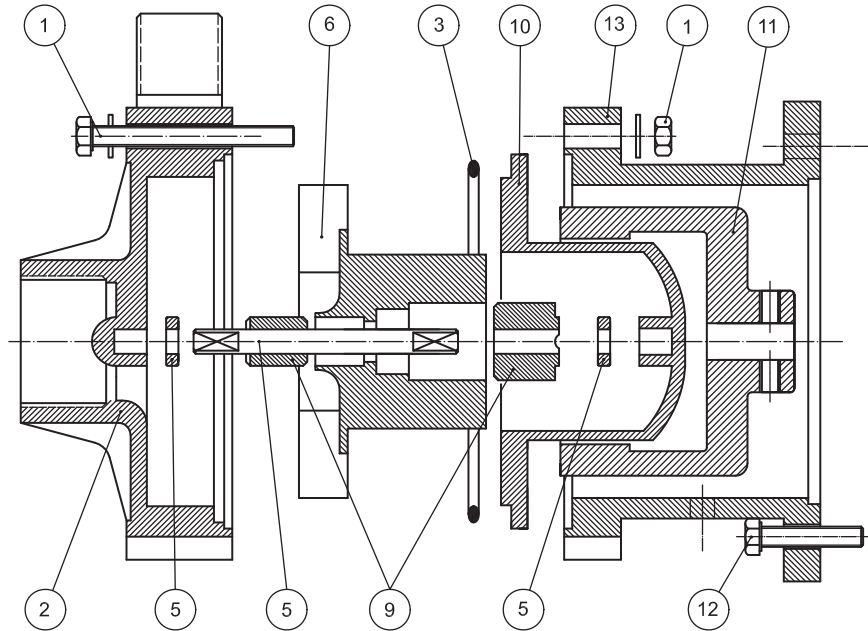
- Flange;
- Dispositivo contro la marcia a secco;
- Piede d'appoggio;
- Boccola rotante in carburo di silicio.
- Le pompe HTM sono disponibili anche per motori NEMA e con attacchi NPT

# HTM PP/PVDF

SECTIONS AND PARTS LIST

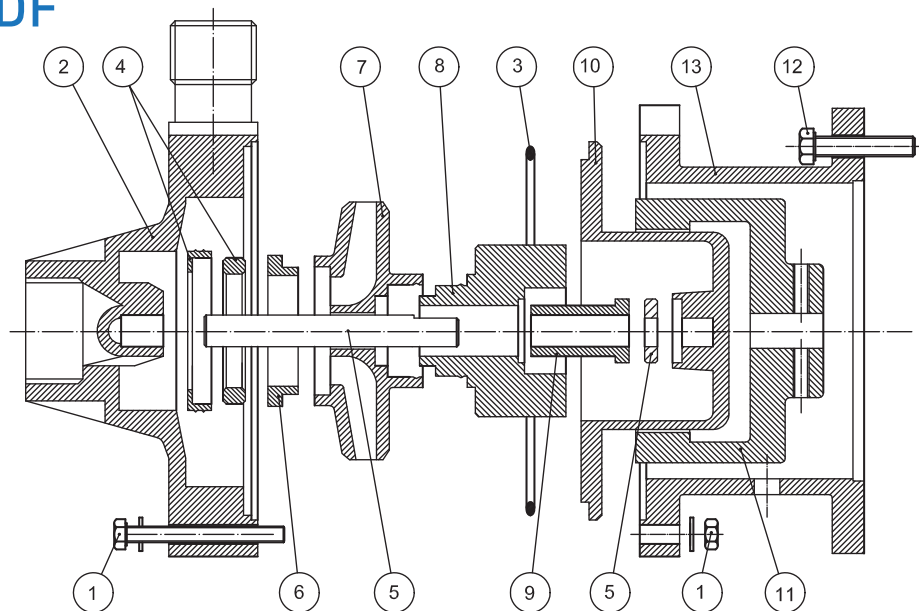
SEZIONI E LISTA PARTI

## HTM 4 PP/PVDF



POS.	1	2	3	5	6	9	10	11	12	13
PART. DESCR.	SET SCREWS	PUMP HEAD	O - RING	SHAFT + RING	INTERNAL ROTATING KIT	BEARING	REAR CASING	EXTERNAL MAGNET	SCREWS	BRACKET
MATERIALS	AISI 304	PP PVDF	EPDM VITON	Al <sub>2</sub> O <sub>3</sub>	PP PVDF	PTFEC	PP PVDF	C40 NeFeb	AISI 304	PP

## HTM 6-10 PP/PVDF



POS.	1	2	3	4	5	6	7	8	9	10	11	12	13
PART. DESCR.	SET SCREWS	PUMP HEAD	O - RING	CASING THRUST BUSH	SHAFT + RING	IMPELLER THRUST BEARING	IMPELLER	INT. MAGNET	BEARING	REAR CASING	EXT. MAGNET	SCREWS	BRACKET
MATERIALS	AISI 304	PP PVDF	EPDM VITON	Al <sub>2</sub> O <sub>3</sub> EPDM VITON	Al <sub>2</sub> O <sub>3</sub>	PTFEC	PP PVDF	PP PVDF NeFeb	PTFEC	PP PVDF	C40 NeFeb	AISI 304	PP

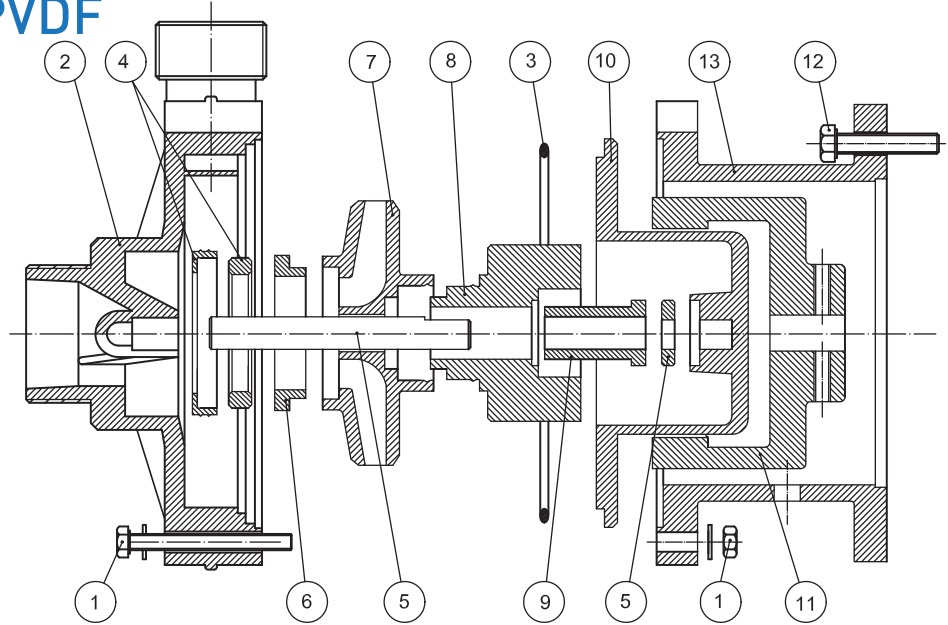
# HTM PP/PVDF

SECTIONS AND PARTS LIST

SEZIONI E LISTA PARTI

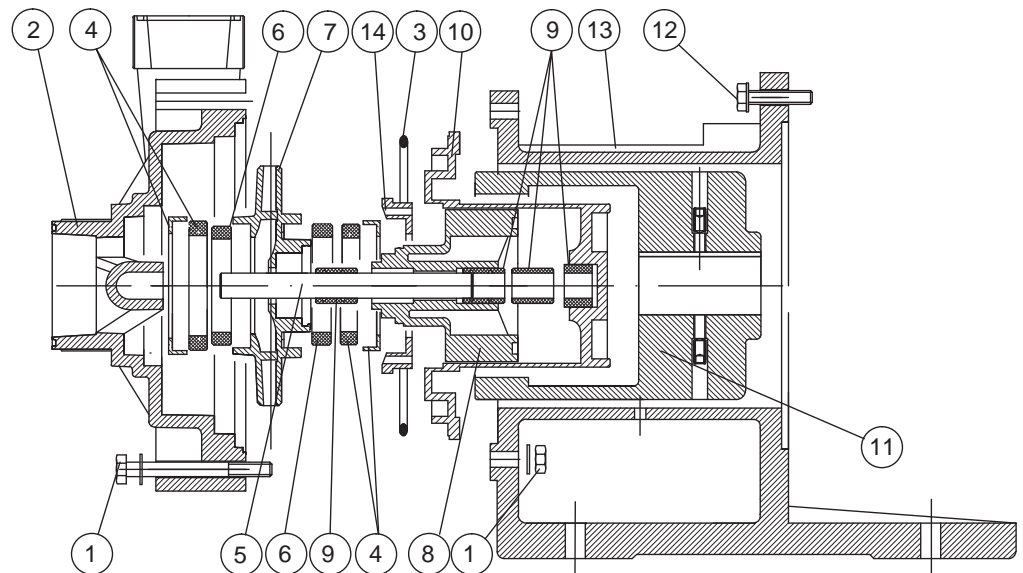


## HTM 15-31 PP/PVDF



POS.	1	2	3	4	5	6	7	8	9	10	11	12	13
PART. DESCR.	SET SCREWS	PUMP HEAD	O - RING	CASING THRUST BUSH	SHAFT + RING	IMPELLER THRUST BEARING	IMPELLER	INT. MAGNET	BEARING	REAR CASING	EXT. MAGNET	SCREWS	BRACKET
MATERIALS	AISI 304	PP PVDF	EPDM VITON	Al <sub>2</sub> O <sub>3</sub> EPDM VITON	Al <sub>2</sub> O <sub>3</sub>	PTFEC	PP PVDF	PP PVDF NeFeb	PTFEC	PP PVDF	C40 NeFeb	AISI 304	PP

## HTM 40-50 PP/PVDF



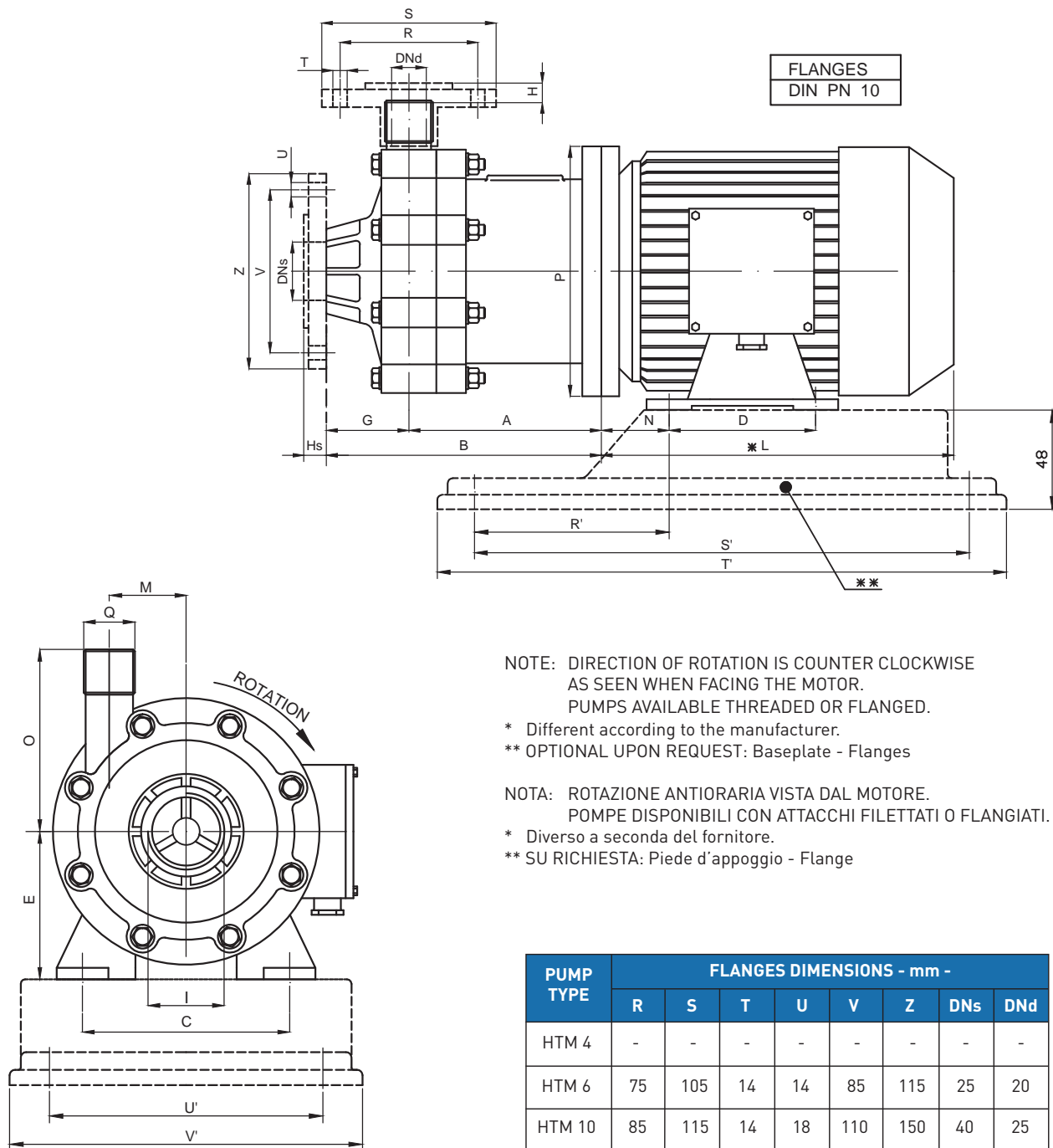
POS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PART. DESCR.	SET SCREWS	PUMP HEAD	O - RING	CASING THRUST BUSH	SHAFT	IMPELLER THRUST BEARING	IMPELLER	INT. MAGNET	BEARING	REAR CASING	EXT. MAGNET	SET SCREWS	BRACKET	REAR SUPPORT
MATERIALS	AISI 304	PP PVDF	EPDM VITON	Al <sub>2</sub> O <sub>3</sub> EPDM VITON	Al <sub>2</sub> O <sub>3</sub>	PTFEC	PP PVDF	PP PVDF NeFeb	PTFEC	PP PVDF	C40 NeFeb	AISI 304	ALUMINIUM	PP PVDF

# HTM PP/PVDF

DIMENSIONS

DIMENSIONI D'INGOMBRO

## HTM 4-6-10 PP/PVDF



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

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

NOTA: ROTAZIONE ANTIORARIA VISTA DAL MOTORE.  
POMPE DISPONIBILI CON ATTACCHI FILETTATI O FLANGIATI.

\* Diverso a seconda del fornitore.  
\*\* SU RICHIESTA: Piede d'appoggio - Flange

PUMP TYPE	FLANGES DIMENSIONS - mm -							
	R	S	T	U	V	Z	DNs	DNd
HTM 4	-	-	-	-	-	-	-	-
HTM 6	75	105	14	14	85	115	25	20
HTM 10	85	115	14	18	110	150	40	25

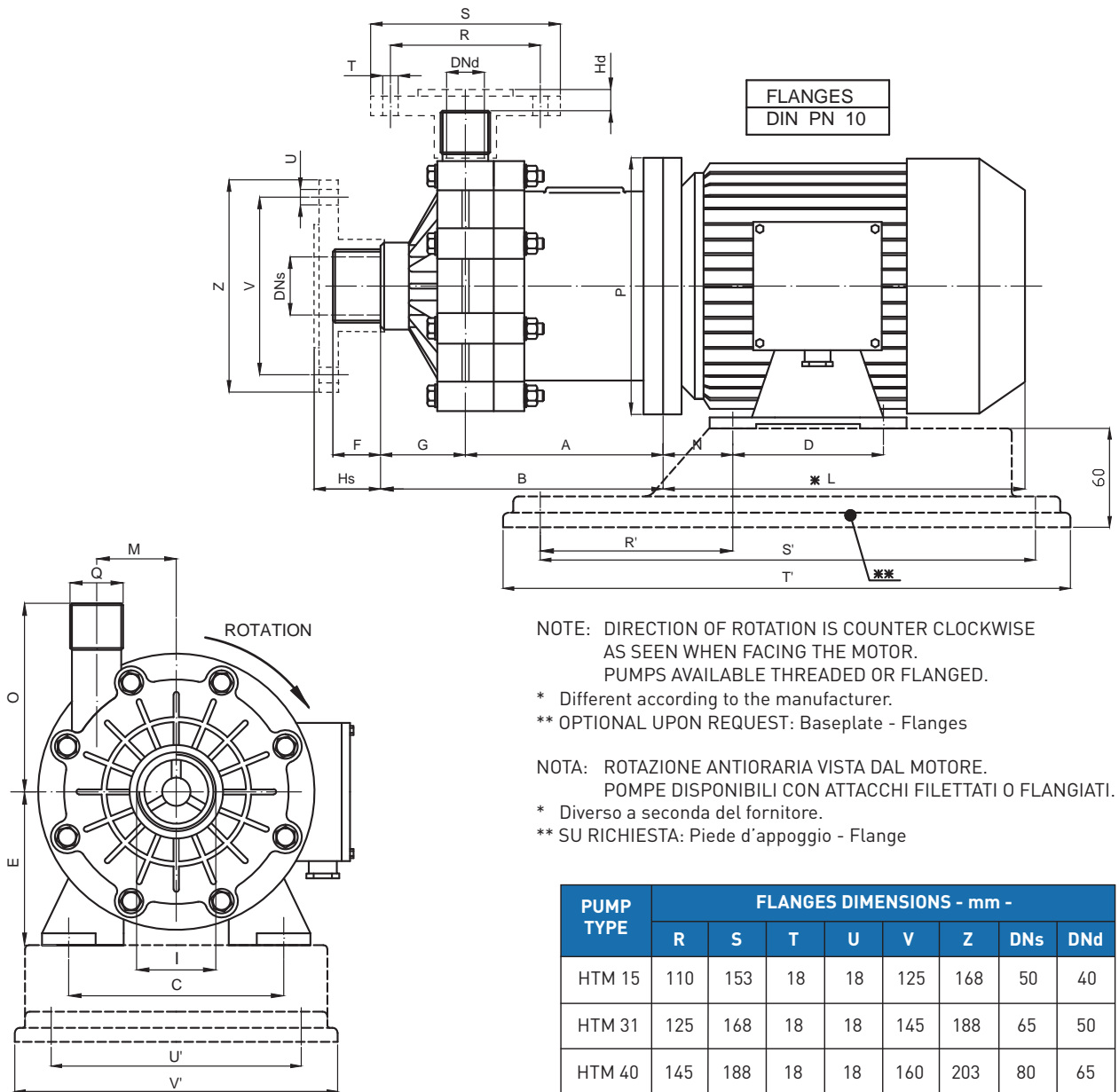
PUMP TYPE	MOTOR FLANGE B3 - B5	POT. kW	DIMENSIONS - mm -													BASEPLATE DIMENSIONS - mm -						
			A	B	C	D	E	Hs	G	H	I	*L	M	N	O	P	Q	R'	S'	T'	U'	V'
HTM 4	G 56 B	0.12	76	115	90	71	56	-	39	-	1" FEMALE	176	34	36	80	120	1/2" MALE	94	244	280	130	160
HTM 6	G 63 B	0.25	84	143	100	80	63	18	59	6	1" FEMALE	191	45	40	98	140	3/4" MALE	102	244	280	130	160
HTM 10	G 71 2B	0.55	110	180	112	90	71	20	70	9	1 1/2" FEMALE	215	45	45	100	160	1" MALE	112	244	280	130	160

# HTM PP/PVDF

DIMENSIONS

DIMENSIONI D'INGOMBRO

## HTM 15-31-40 PP/PVDF



PUMP TYPE	FLANGES DIMENSIONS - mm -							
	R	S	T	U	V	Z	DNs	DNd
HTM 15	110	153	18	18	125	168	50	40
HTM 31	125	168	18	18	145	188	65	50
HTM 40	145	188	18	18	160	203	80	65

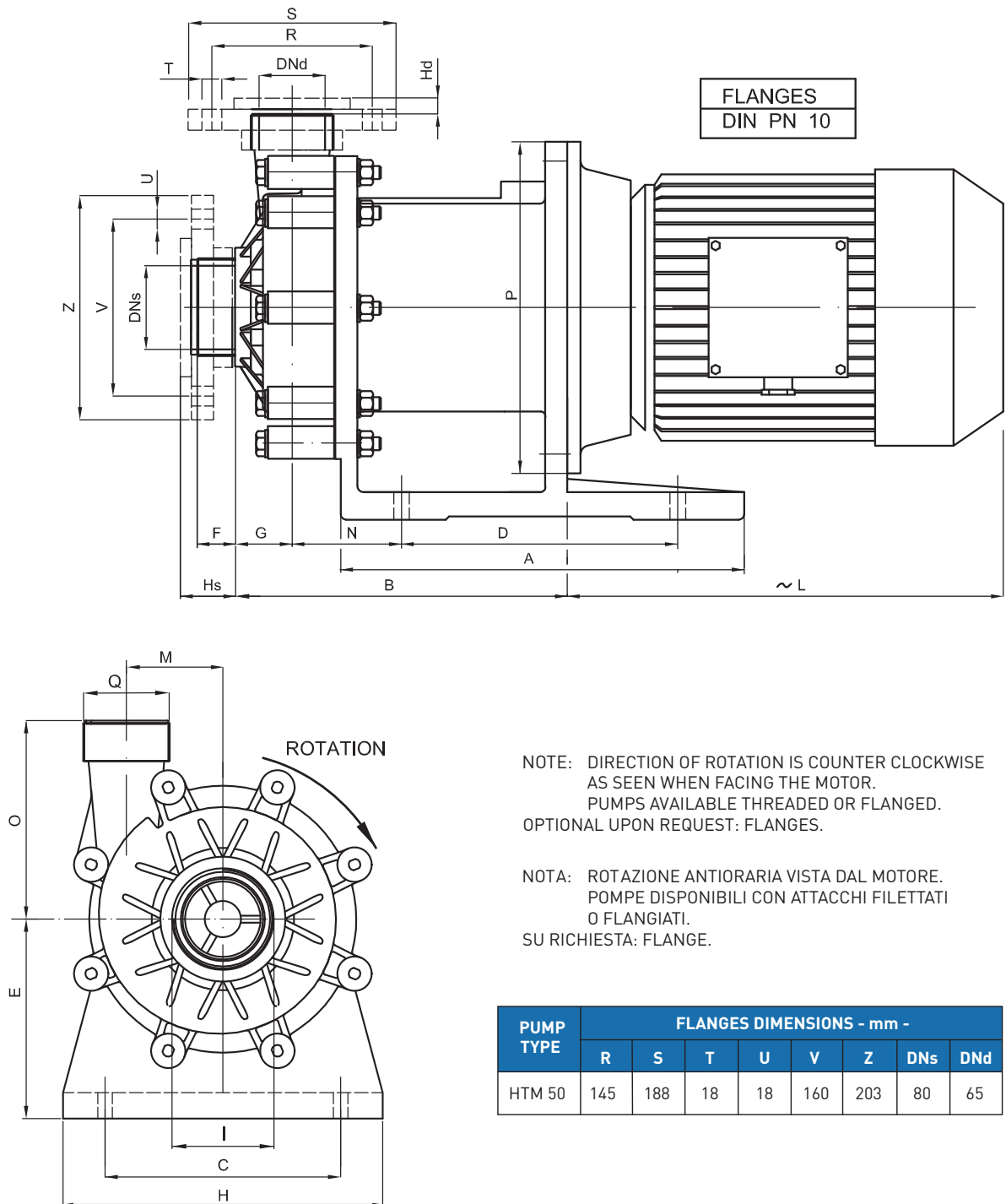
PUMP TYPE	MOTOR FLANGE B3 - B5	POT. kW	DIMENSIONS - mm -															BASEPLATE DIMENSIONS - mm -					
			A	B	C	D	E	F	G	Hs	Hd	I	*L	M	N	O	P	Q	R'	S'	T'	U'	V'
HTM 15	G 80 B	1,1	150	230	125	100	80	28	52	42	13	2"	232	66	50	135	200	1 1/2"	120	302	350	157	205
HTM 15	G 90 S	1,5	160	240	140	100	90	28	52	42	13	2"	256	66	56	135	200	1 1/2"	132	302	350	157	205
HTM 31	G 90 L	2,2	184	245	140	125	90	30	61	44	13	2 1/2"	280	66	56	140	200	2"	132	302	350	157	205
HTM 31	G 100 L	3	203	264	160	140	100	30	61	44	13	2 1/2"	315	66	63	140	250	2"	140	352	400	202	250
HTM 40	G 100 L	3	228	280	160	140	100	40	52	50	10	3"	315	82,5	63	170	250	2 1/2"	140	352	400	202	250
HTM 40	G 112 M	4	228	280	190	140	112	40	52	50	10	3"	325	82,5	70	170	250	2 1/2"	156	352	400	202	250

# HTM PP/PVDF

DIMENSIONS

DIMENSIONI D'INGOMBRO

## HTM 50 PP/PVDF



PUMP TYPE	FLANGES DIMENSIONS - mm -							
	R	S	T	U	V	Z	DNs	DNd
HTM 50	145	188	18	18	160	203	80	65

PUMP TYPE	MOTOR FLANGE B5	POT. kW	DIMENSIONS - mm -																
			A	B	C	D	E	F	G	H	Hs	Hd	I	~L	M	N	O	P	Q
HTM 50	G132 S	5,5	365	300	216	250	192	40	52	274	50	10	3" MALE	360	82.5	98	180	300	2 1/2" MALE
HTM 50	G132 M	7,5	365	300	216	250	192	40	52	274	50	10	3" MALE	400	82.5	98	180	300	2 1/2" MALE

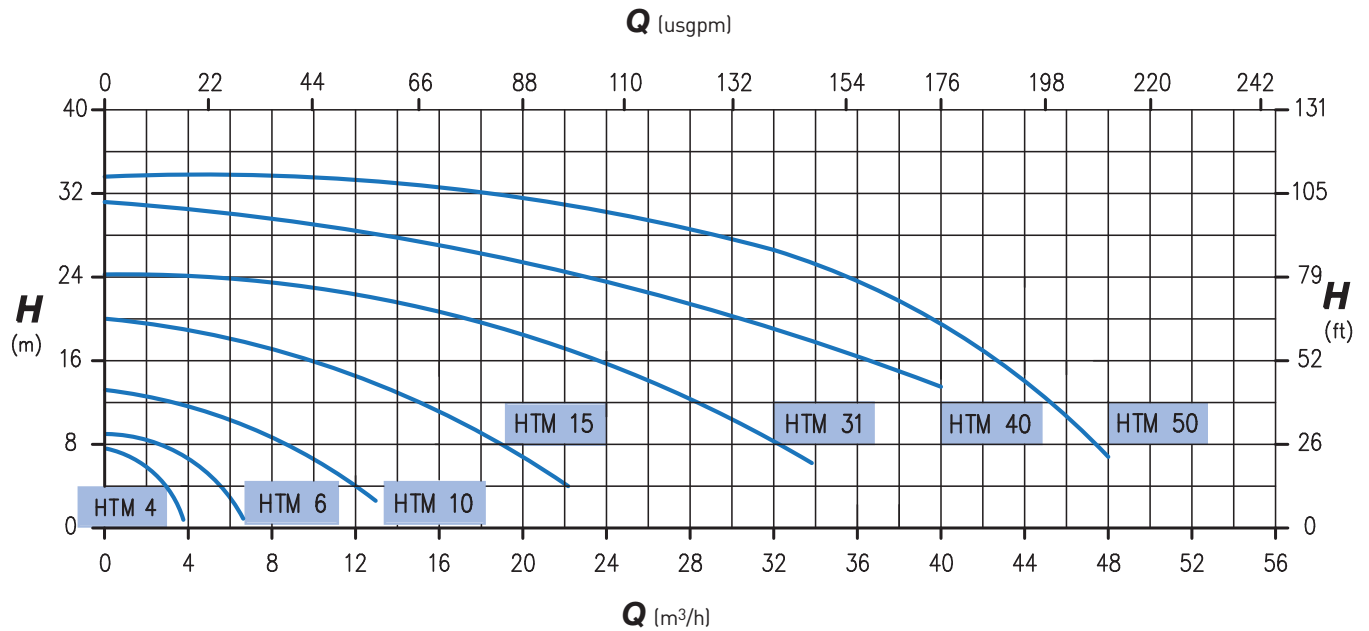
# HTM PP/PVDF

CURVES

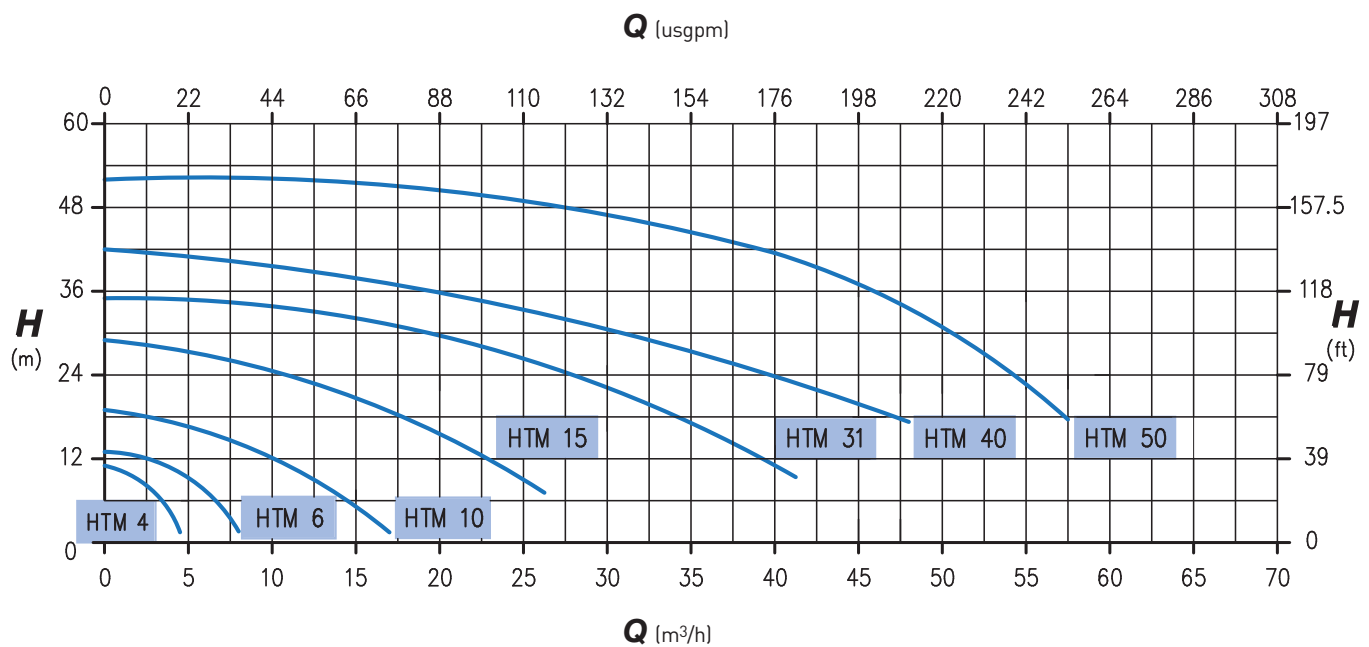
CURVE



## 50Hz - RPM 2900



## 60Hz - RPM 3500



# 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