TEXEL®
Magnetic Drive Pumps

MTA Series

TEXEL®

TEXEL-SEIKOW U.S.A.,Inc.

TEXEL MTA pumps are highly reliable, provide excellent corrosion resistance, robustness, and high durability for use across various applications.

TEXEL High pressure transfer molding process

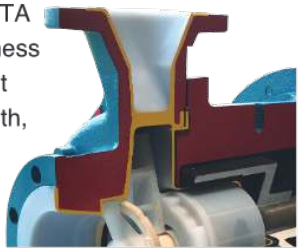
TEXEL's unique high-pressure molding process produces a uniform thickness and smooth surface lining. This is done to prolong the life of the pump. Also, this molding eliminates the gap between the lining of the casing and the cast iron, while preventing the lining from shifting or moving.

PFA

The main parts of MTA pump such as casing, impeller, and lining are made of PFA, which has excellent characteristics for process pumps.

PFA Lining

The PFA lining of TEXEL MTA pump has a sufficient thickness of 5-6 mm and has excellent corrosion resistance, strength, and abrasion resistance.



Seamless lining

A completely seamless internal magnet lining prevents magnet corrosion and reduces the possibility of pump failure.

Back-pull structure

TEXEL's unique back pull-out structure allows the main components to be assembled and disassembled individually. During maintenance, disassembly, or inspection, work can be done without removing the discharge / suction pipes. Therefore, it makes parts replacement and maintenance work easier and reduces work time.

Flange

All flange sizes comply with ANSI / ASME B16.5 Pipe Flanges and Flanged Fittings standards.

Features of PFA

High durability and abrasion resistance

It has excellent durability and can be used for a long period of time in severe environments.
It has a low abrasion coefficient and excellent lubricity.

Excellent heat resistance

It maintains stable mechanical strength over a wide range of temperatures from low to high temperatures.
TEXEL MTA pumps can be used at -4 to +248°F (-20 to +120°C).

Chemical resistance

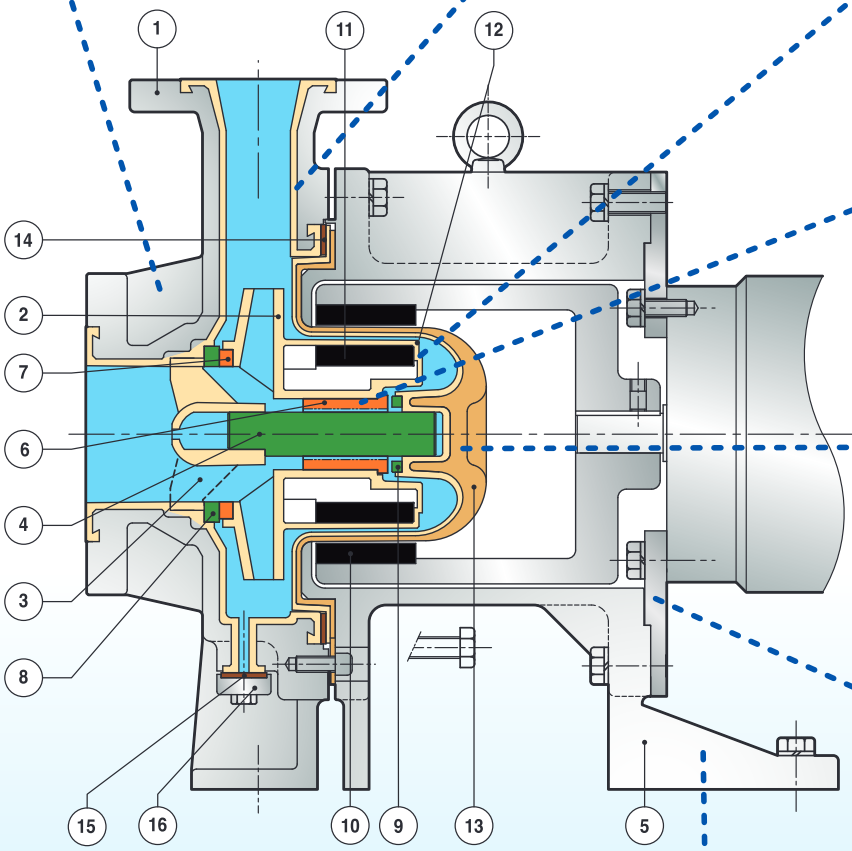
Highly impervious to chemicals and excellent in corrosion resistance. It reduces the need for maintenance and makes it possible to minimize downtime during operation.

Features of components

●Casing
Heavy-duty ductile casting iron provides mechanical strength to the pump and protects the PFA-lining.

●Lining
The PFA lining has 5-6mm thickness and provides corrosion resistance, strength, and abrasion resistance.

●Inner magnet lining
PFA encapsulated seamless construction prevents magnet corrosion and reduces the possibility of pump failure.



●Bushing (Bearing)
Extra-long bushing provides stable operation over the entire operation range of the pump.

●Rear casing
Engineered plastic rear casing outer shell provides high strength to the PFA lining.

●Motor Liner
Motor Liner allows for use of different size motors on a single pump model to provide performance flexibility.

●Bracket
Reinforced heavy-duty frame adapter can mount various types of motors.

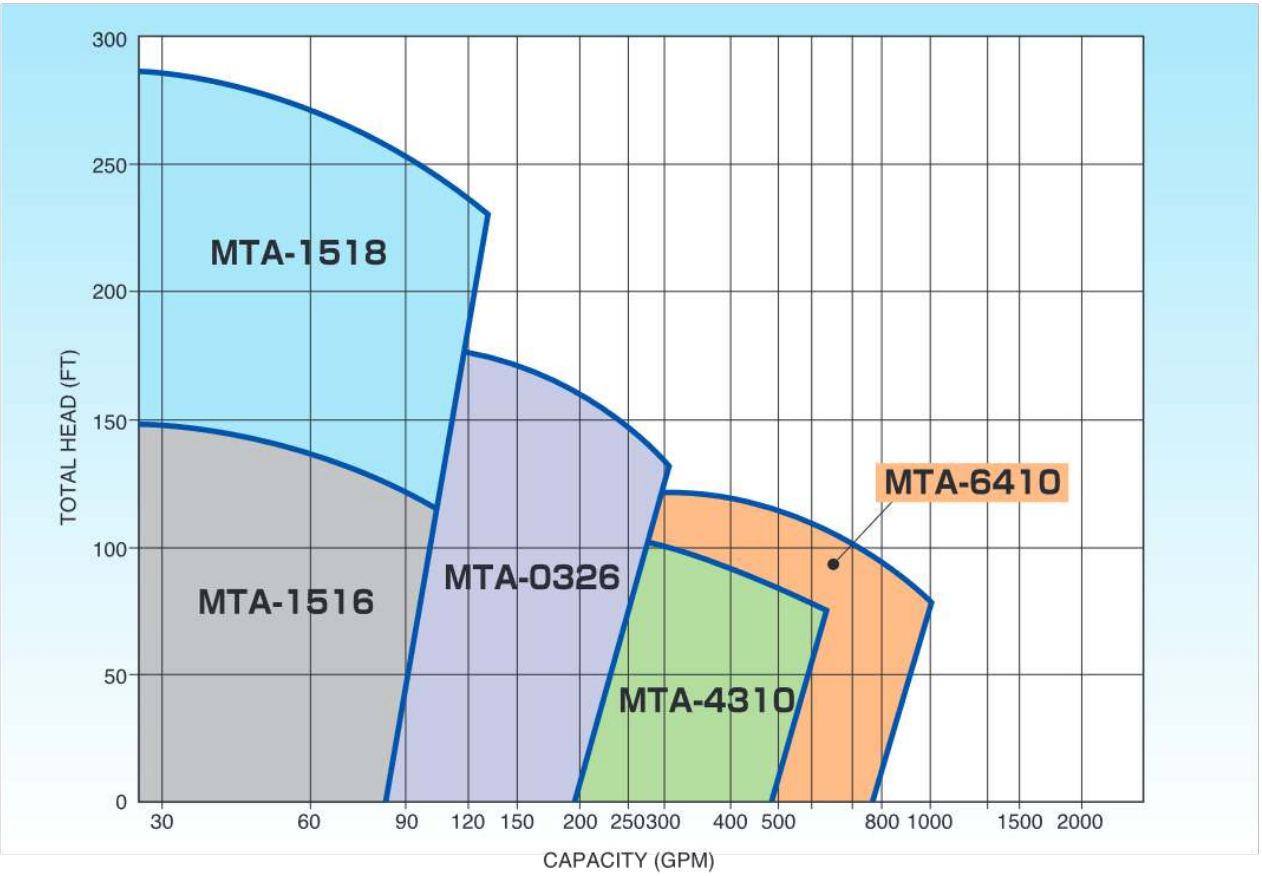
No.	Description	Material
1	Casing	PFA(Wet Side) + Ductile Iron
2	Impeller	PFA
3	Shaft Support	PFA
4	Shaft	SIC (Titanium: Option)
5	Bracket	Cast Iron
6	Bushing	SiC or C-PTFE (Carbon, G-PTFE: Option)
7	Mouth Ring	SiC or C-PTFE
8	Front Thrust Ring	SiC
9	Rear Thrust Ring	SiC

No.	Description	Material
10	Outer Magnet	Rare earth
11	Inner Magnet	Rare earth
12	Magnet Lining	PFA
13	Rear Casing	PFA(Wet Side) + Eng. Plastic
		C-PVDF (Wet side): Option
14	Casing Gasket	PTFE
15	Drain Gasket	PTFE
16	Drain Flange	Cast Iron or Stainless steel

Note : In case of MTA-4310/6410 models,
Casing and Shaft support materials are ETFE.
(Casing lining is roto-lining)

Composite Capacity Chart & Identification

Capacity Chart



Identification

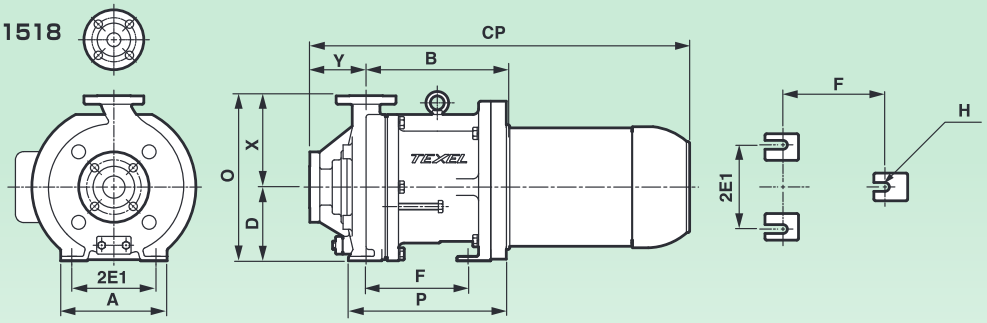
MTA - 1516 P 02 F E 4
① ② ③ ④ ⑤ ⑥ ⑦

①	PUMP SERIES	MTA SERIES					
②	MODEL NAME	1516	1518	0326	4310	6410	
	SUCTION SIZE (inch)	1.5	1.5	3	4	6	
	DISCHARGE SIZE (inch)	1	1	2	3	4	
	NOMINAL IMEPELLER DIAMETER	DEPEND ON MODEL					
③	GASKET MATERIAL	P : PTFE	Z : Other				
④	MOTOR OUTPUT	——	02: 2 HP	03: 3 HP	05: 5 HP	07: 7.5 HP	10: 10 HP
		15: 15 HP	20: 20 HP	25: 25 HP	30: 30 HP	40: 40 HP	50: 50 HP
⑤	PUMP BODY MATERIAL	TYPE	CASING	IMPELLER+INNER MAGNET		REAR CASING	
		E	ETFE	PFA		PFA+ENG.PLASTIC	
		F	PFA	PFA		PFA+ENG.PLASTIC	
		Z	OTHER COMBINATION				
⑥	BEARING COMBINATION	TYPE	SHAFT	FRONT&REAR THRUSTRING		MOUTH RING&BUSHING	
		E	SiC			C-PTFE	
		B	SiC				
		Z	OTHER COMBINATION				
⑦	MOTOR POLE	ONLY FOR 4 POLE MOTOR					

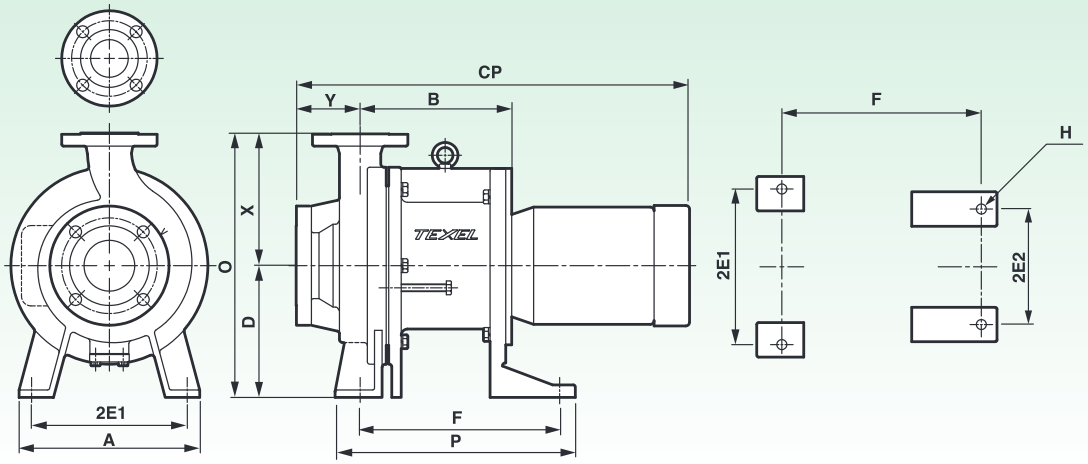
Note : Pump body material
MTA-1516/1518/0326 : F type
MTA-4310/6410 : E type

Dimensions

Model 1516, 1518



Model 0326, 4310, 6410



Model	Frame	D	X	O	Y	F	2E1	2E2	A	H	P	CP	B	Weight (lbs)
1516	143TC &145TC	5.25	6.5	11.75	4	7.25	6		7.6	φ5/8	10.1	24.4	9.3	170
	182TC &184TC											26.8	10	
	213TC &215TC											10.9	10.5	
	254TC &256TC											21.5	11.1	
	284TSC											39.4	10.4	
1518	143TC &145TC	5.25	6.5	11.75	4	7.25	6		7.6	φ5/8	10.1	24.4	9.3	
	182TC &184TC											25.8	10	
	213TC &215TC											10.9	10.5	
	254TC &256TC											21.5	11.1	
	284TSC											39.4	10.4	
0326	143TC &145TC	8.25	8.25	16.5	4	12.5	9.75	7.25	11.3	φ5/8	15.1	24.4	9.5	240
	182TC &184TC											26.8	10.2	
	213TC &215TC											10.9	10.7	
	254TC &256TC											21.5	11.3	
	284TSC											39.4	10.6	
4310	213TC &215TC	8.25	11	19.25	4	12.5	9.75	7.25	13.8	φ5/8	16.3	32.3	12.3	430
	254TC &256TC											36	12.6	
	284TC &286TC											38.9	13.2	
	324TC											44.4	13.8	
	326TC											46.5		
6410	254TC &256TC	10	13.5	23.5	4	12.5	9.75	7.25	13.8	φ5/8	16.4	35.9	12.6	550
	284TC &286TC											39	13.2	
	324TC											44.4	13.8	
	326TC											46.5		

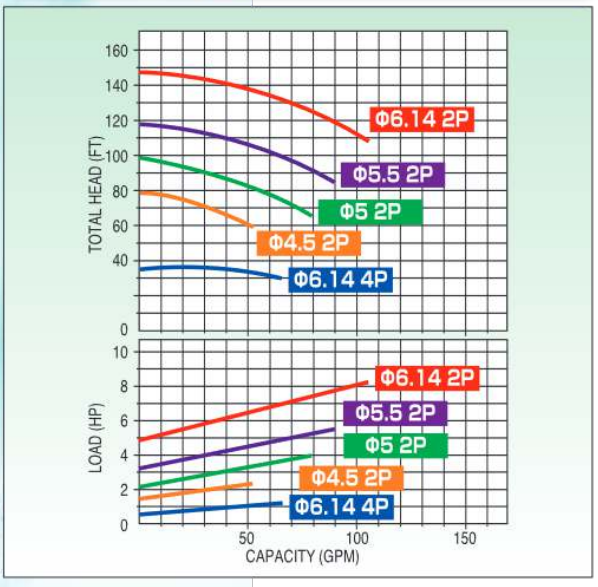
※ Weight is for pump body only, Motor is not included.

Performance Curve & Technical Data

Pump Specifications

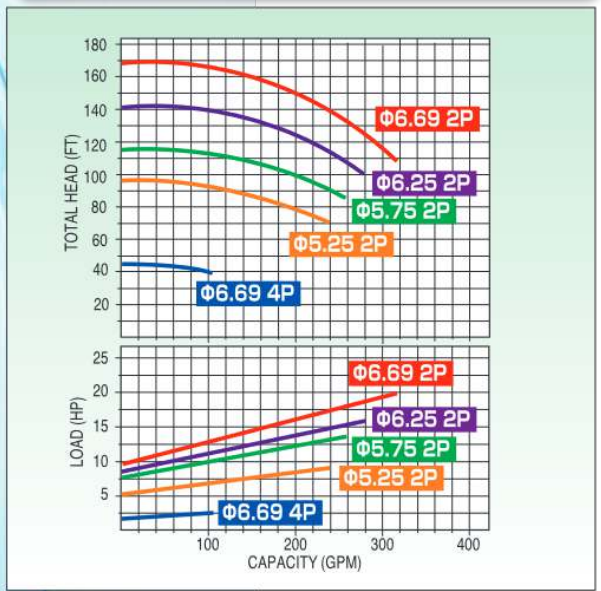
- Operating Temperature : -4 to 248°F
  (Please consult us when use at under 32°F)
- Rotation Direction : Clockwise (viewed from the motor)
- Flange : ANSI
- Motor : NEMA
- Finish Paint : Munsell 2.5B4/8,
  RAL 5012 Light Blue or equivalent
  (pump body)

MTA-1516



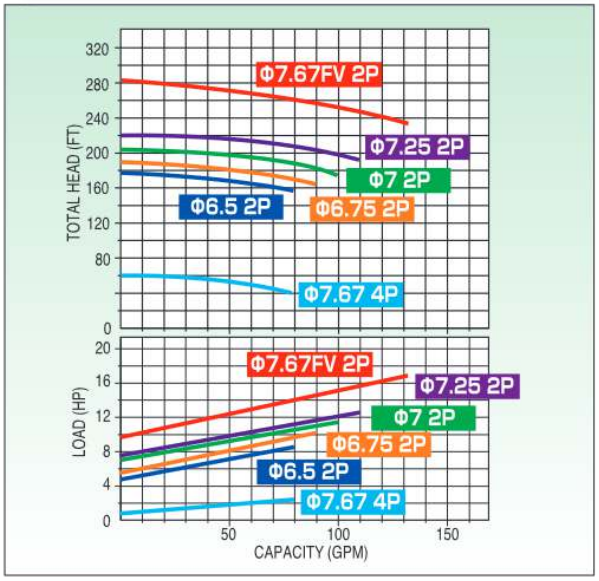
Impeller diameter-Motor pole	Capacity (GPM)	Head (ft)	NPSH Re (ft)	Motor Output
6.14 - 2P	80	125	11.5	2 - 25HP
5.5 - 2P		92		
5 - 2P		65		
4.5 - 2P	40	68	9.8	
6.14 - 4P	40	33	6.9	2, 3, 5HP

MTA-0326



Impeller diameter-Motor pole	Capacity (GPM)	Head (ft)	NPSH Re (ft)	Motor Output
6.69 - 2P	250	155	22.3	2 - 25HP
6.25 - 2P		120		
5.75 - 2P		100		
5.25 - 2P	200	88	17	
6.14 - 4P	105	45	8.5	2, 3, 5HP

MTA-1518



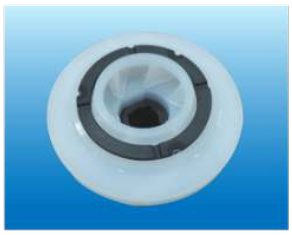
Impeller diameter-Motor pole	Capacity (GPM)	Head (ft)	NPSH Re (ft)	Motor Output
7.67FV - 2P	80	265	12.2	2 - 25HP
7.25 - 2P		210		
7 - 2P		195		
6.75 - 2P		175		
6.5 - 2P		160		
7.67 - 2P	40	57	6.9	2, 3, 5HP

※FV : Flat Vane Impeller

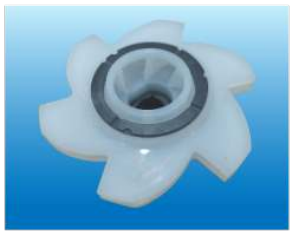
Necessary Information for Inquiries and Orders

1. Total Head : Suction and Discharge (ft)
2. Capacity : (GPM)
3. Pumping Liquid : Liquid Composition and Density, Operating Temperature, Specific Gravity, Fine Particles, etc.
4. Power Source : Voltage, Frequency, Phase

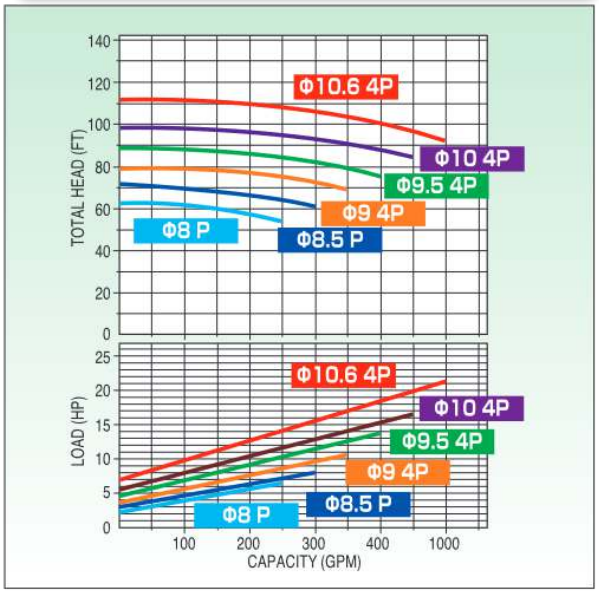
Standard Impeller



Flat Vane Impeller

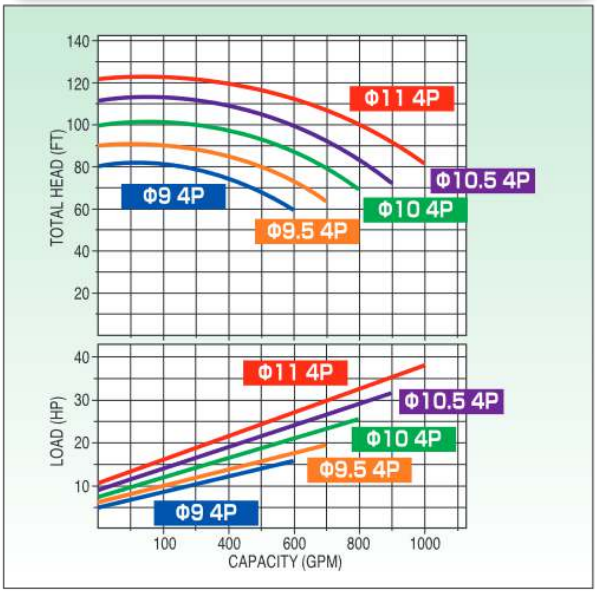


MTA-4310



Impeller diameter-Motor pole	Capacity (GPM)	Head (ft)	NPSH Re (ft)	Motor Output
10.59 - 4P	300	105	10.6	7.5 - 50HP
10 - 4P		94		
9.5 - 4P		83		
9 - 4P		73		
8.5 - 4P	200	68	12	
8 - 4P		60		

MTA-6410



Impeller diameter-Motor pole	Capacity (GPM)	Head (ft)	NPSH Re (ft)	Motor Output
11 - 4P	750	105	11.5	7.5 - 50HP
10.5 - 4P		91		
10 - 4P		75		
9.5 - 4P	500	83	10	
9 - 4P		70		

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