

TOMY ENG General catalogue



TEN-P/V

Magnetic pumps with small capacity



Features

- Magnetic pumps to suitable for wide range chemical.
- High reliability and long life faithfully following basic performance.
- Models with 6W - 250W of various motor output.

Material

- General purpose small capacity magnetic pump

TEN type . . . GFR-PP

*Glassfiber-reinforced polypropylene

- Chemical resistance magnetic pump

TEN-V type . . . CFR-PVDF

*Carbon- reinforced polyvinylidene fluoride(2F)

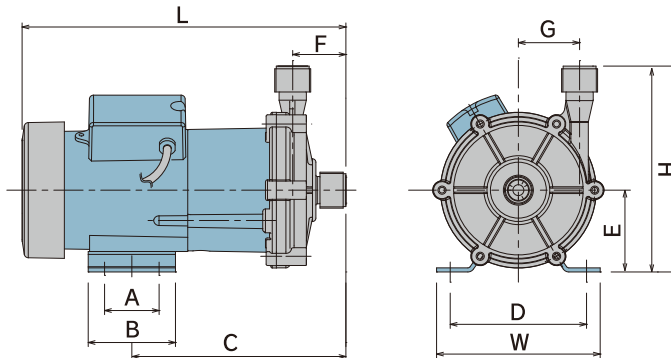
Model constitution

TEN-150 P - T 3 2 5

① ② ③ ④ ⑤ ⑥

① Series	② Material	③ Connection	④ Phase	⑤ Voltage	⑥ Frequency
5~250	P...GFR-PP	H... HOSE	1... Single	1...100V	none ...50/60Hz
		T... Thread		2...200V	
	V...CFR-PVDF	F... Flange	3... Three	3...380V	5...50Hz only
				4...400V	

Dimensions list



Things to be aware of when using

1. Do not race magnetic pumps
2. Do not operate magnetic pumps with slurry.
3. Magnetic pumps can not suck fluid by self.
4. Use magnetic pump within the following fluid temperature.

TEN-P/TEX-P 0~70°C

TEN-V 0~80°C

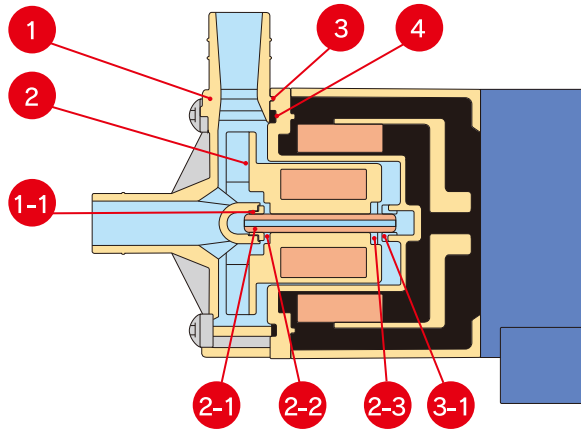
TEX-F/C 0~90°C

MODEL	W	H	L	A	B	C	D	E	F	G	mm
TEN-5P	74	83	130	-	30	74	60	36	31	17	
TEN-15P/15V	95	113	179	-	50	116	68	56	38	23	
TEN-25P/25V	85	117	205	30	50	127	68	56	34	29	
TEN-25PZ/25VZ	85	126	211	30	50	134	68	56	40	40	
TEN-45P/45V	120	130	250	40	64	167	100	60	48	30	
TEN-45PZ/45VZ	120	134	230	40	64	151	100	64	40	40	
TEN-70P/70V	120	130	274	40	64	168	100	60	48	30	
TEN-70PZ/70VZ	120	151	237	40	64	157	100	60	39	45	
TEN-110P/110V											
TEN-110P3/110V3	120	162	275	45	75	187	100	66	56	43	
TEN-110P15/110V15											
TEN-110P35/110V35											
TEN-150P/150V	142	159	273	70	96	180	108	66	56	43	
TEN-150P3/150V3											
TEN-150PZ/150VZ	142	166	252	70	96	163	108	66	41	48	
TEN-150PZ3/150VZ3											
TEN-250P/250V	156	174	322	70	100	196	110	74	66	44	
TEN-250P3/250V3											
TEN-250P15/250V15											
TEN-250P35/250V35											

• Please note that structure and dimension may change without prior notice

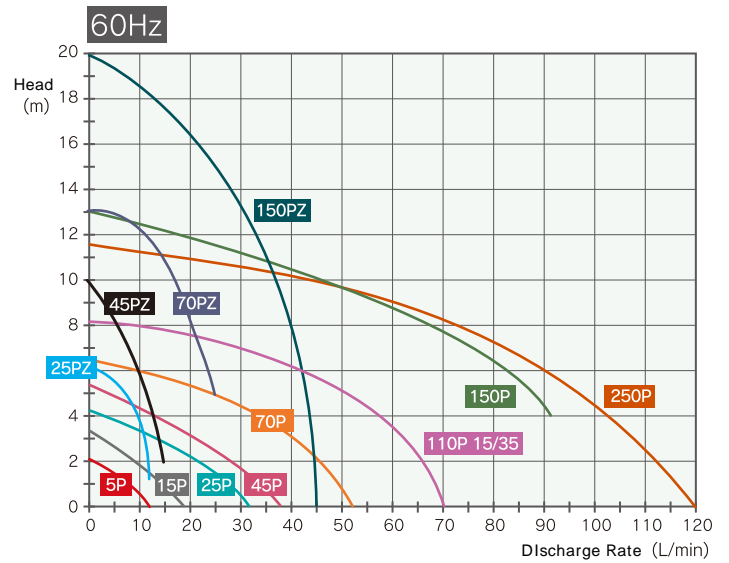
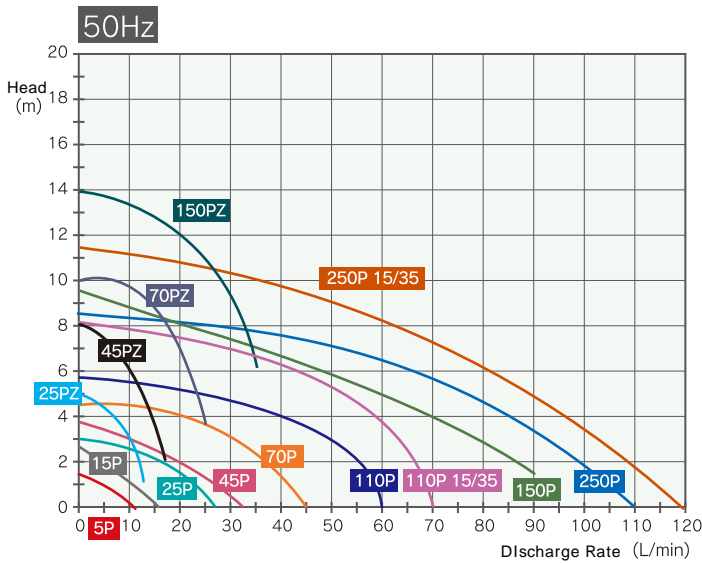
• When designing, request drawing and reconfirm

Construction



No.	Part name	TEN-P	TEN-V
1	Front casing	GFR-PP	CFR-ETFE
1-1	Front bearing	Special PTFE	
2	Impeller (magnet can)	GFR-PP	CFR-ETFE
2-1	spindle	Alumina ceramic	
2-2	Front thrust	Alumina ceramic	
2-3	Rear thrust	Alumina ceramic	
3	Rear casing	GFR-PP	CFR-ETFE
3-1	Rear bearing	Special PTFE	
4	O-ring	FKM / EPDM / Special	

Performance Curve



Standard Specifications

MODEL	Frequency Hz	Hose / mm	Thread		Flange JIS10K	MAX Rate L/min	MAX Hed m	Strn. Spc.		Motor (50/60Hz)			Weight (Kg)
			Suc/Dis	Union				L/min	m	Rated Output (W)	Power Consumption (W)	Power Supply (V)	
TEN-5P	50 60	14A/14A	—	—	—	11 12	1.5 2.1	5 8	1	6	11 14	1-phase 100/200	0.9
TEN-15P/15V	50 60	14A/14A	G3/4	16A	—	16 19	2.7 3.4	8 12	1.5	15	22 30	1-phase 100/200	1.6
TEN-25P/25V	50 60	18A/18A	G3/4	16A	—	27 32	3.1 4.3	17 22	2	25	35 50	1-phase 100/200	2
TEN-25PZ/25VZ	50 60	17A/17A	G3/4	16A	—	13 14	5 6.5	7 10	4	25	35 50	1-phase 100/200	2.1
TEN-45P/45V	50 60	20A/20A	G3/4	16A	—	33 38	3.8 5.4	16 25	2.5	45	50 70	1-phase 100/200	3.4
TEN-45PZ/45VZ	50 60	17A/17A	G3/4	16A	—	15 15	8 10	5 8	7 8	45	50 70	1-phase 100/200	3.3
TEN-70P/70V	50 60	20A/20A	G3/4	16A	—	45 52	4.6 6.5	22 34	4	70	95 140	1-phase 100/200	5.1
TEN-70PZ/70VZ	50 60	20A/20A	G3/4	16A	—	22	10 13.5	10	8 12	70	95 140	1-phase 100/200	4
TEN-110P/110V	50 60					60 70	5.6 8.2	40 55			130 190	1-phase 100/200	
TEN-110P3/110V3	50 60					60 70	5.6 8.2	40 55			130 190	3-phase 200/400	
TEN-110P15/110V15	50	26A/26A	G1	20A	—	70	8.2	55	4	110	190	1-phase 100/200	7.1
TEN-110P35/110V35	50											3-phase 200/400	
TEN-150P/150V	50 60	26A/26A	G1	20A	25A	80 100	9.5 13	50	7.5 10	150 170	210 310	1-phase 100/200	6.6
TEN-150P3/150V3	50 60					80 100	9.5 13	50	7.5 10	150 170	210 310	3-phase 200/400	
TEN-150PZ/150VZ	50 60					40 43	14 20	20 30	12		160 190	1-phase 100/200	
TEN-150PZ3/150VZ3	50 60	20A/20A	G3/4	16A	—	40 43	14 20	20 30			160 190	3-phase 200/400	6.6
TEN-250P/250V	50 60					100 120	8.6 11.6	50 70	7 8		290 400	1-phase 100/200	
TEN-250P3/250V3	50 60					100 120	8.6 11.6	50 70	7 8	250	290 400	3-phase 200/400	8.7
TEN-250P15/250V15	50	26A/26A	G1	20A	25A	120	11.5	70	8		395	1-phase 100/200	
TEN-250P35/250V35	50											3-phase 200/400	

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TEX-P/F/C

Magnetic pumps with medium capacity



TEX-P/F



TEX-C

Features

- Magnetic pumps with medium capacity for wide range chemicals line up
- Leak free, seal-less construction for magnetic drive
- liquid end material combination support for wide range chemicals
- Casting cover installed for suitable use for high temperature and pressure
- Outdoor motor installed as standard.
- High resistance to idle running and long life.

Material

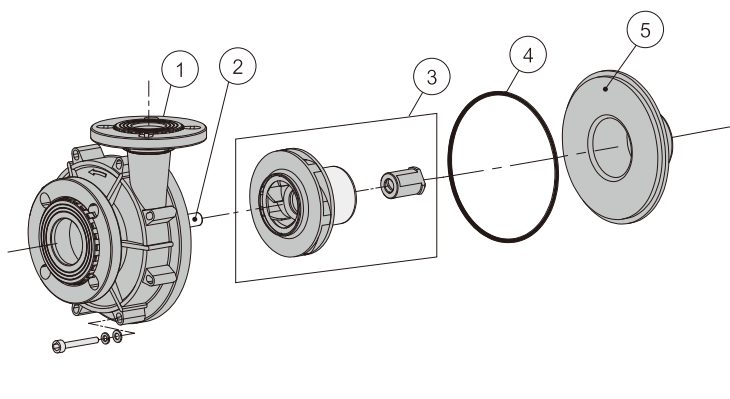
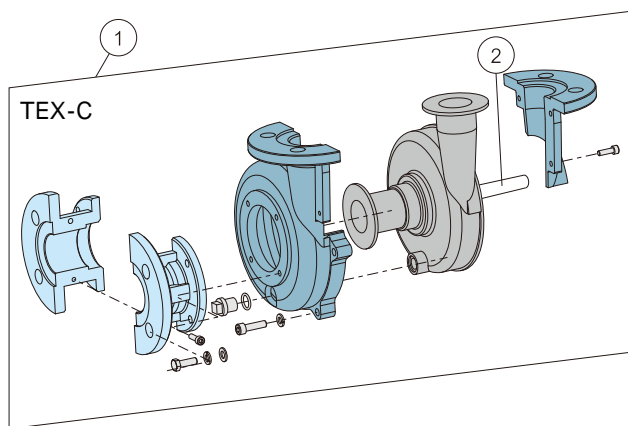
- TEX-P type GFR-PP Glassfiber-reinforced polypropylene
- TEX-F type CFR-ETFE Carbon- reinforced ETFE
- TEX-C type CFR-ETFE Carbon- reinforced ETFE
 - ※ ETFE is nearly equal chemical resistance with PTFE(Teflon®).
 - ※ Teflon® is trademark registration of DuPont USA.

Model constitution

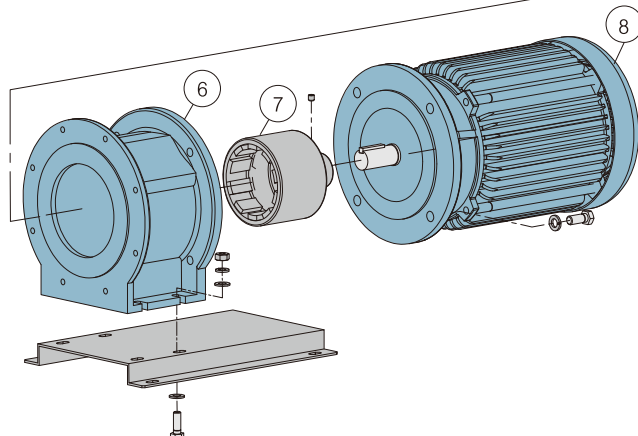
TEX-44 0 P - C V 5 A
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series	② Bore	③ Motor		④ Material	⑤ Bearing	⑥ O-Ring	⑦ Hz	⑧ Specific gravity limit	
TEX	2...25A	0...0.4kW	3...2.2kW	P...GFR-PP	C...Carbon	V...FKM	5...50Hz	A...1.1	D...1.9
	4...40A	1...0.75kW	5...3.7kW	F...CFR-ETFE	R...PTFE	E...EPDM		B...1.3	H...1.0
	5...50A			2...1.5kW	C...FCD+CFR-ETFE	A...Alumina ceramic	S...Special	6...60Hz	C...1.5
	6...65A				S...SiC				

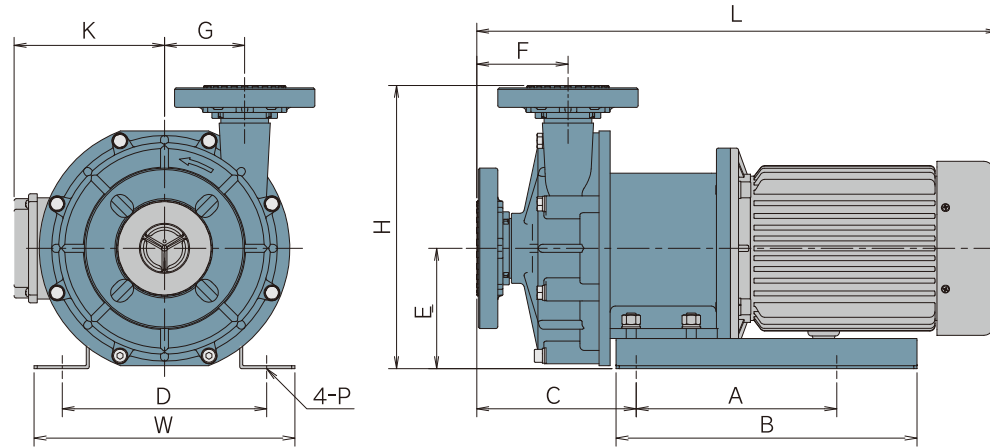
Construction



No.	Part name	TEX-P	TEX-F/C
1	Front Casing	GFR-PP	CFR-ETFE/FC+CFR-ETFE
2	Shaft(Spindle)	Alumina ceramic / SiC	
3	Impeller Assy (Mg can Bearing)	GFR-PP+PP/Carbon GFR-PP+PP/Ceramic GFR-PP+PP/SiC	CFR-ETFE+ETFE/Carbon CFR-ETFE+ETFE/Ceramic CFR-ETFE+ETFE/SiC
4	O-Ring	FKM/EPDM/SPECIAL	
5	Rear Casing	GFR-PP	CFR-ETFE
6	Bracket	FC / PPG	
7	Drive Magnet	Ferrite / Neodymium	
8	Motor	-	



Dimensions list



MODEL	INLET / OUTLET	W	H	L	A	B	C	D	E	F	G	K	P
TEX-220P/F	25A/25A	160	255	449	130	210	171	130	115	90	65	120	12
TEX-221P/F	25A/25A	160	255	479	130	210	171	130	115	90	65	127	12
TEX-420C	40A/25A	140	225	442	98	200	149	110	95	87	55	120	12
TEX-440P/F	40A/40A	140	226	444	98	200	151	110	95	88	54	120	12
TEX-441P/F	40A/40A	160	258	489	130	210	187	130	115	106	72	127	12
TEX-542P/F/C	50A/40A	260	283	500	200	300	159	204	120	91	80	150	14
TEX-543P/F/C	50A/40A	260	283	525	200	300	159	204	120	91	80	150	14
TEX-545P/F/C	50A/40A	250	325	593	300	360	147	220	162	91	80	168	14
TEX-653P/F	65A/50A	260	289	532	200	300	165	204	120	92	80	150	14
TEX-653C	65A/50A	250	333	532	300	360	158	220	162	94	80	150	14
TEX-655P/F/C	65A/50A	250	331	600	300	360	153	220	162	92	80	168	14

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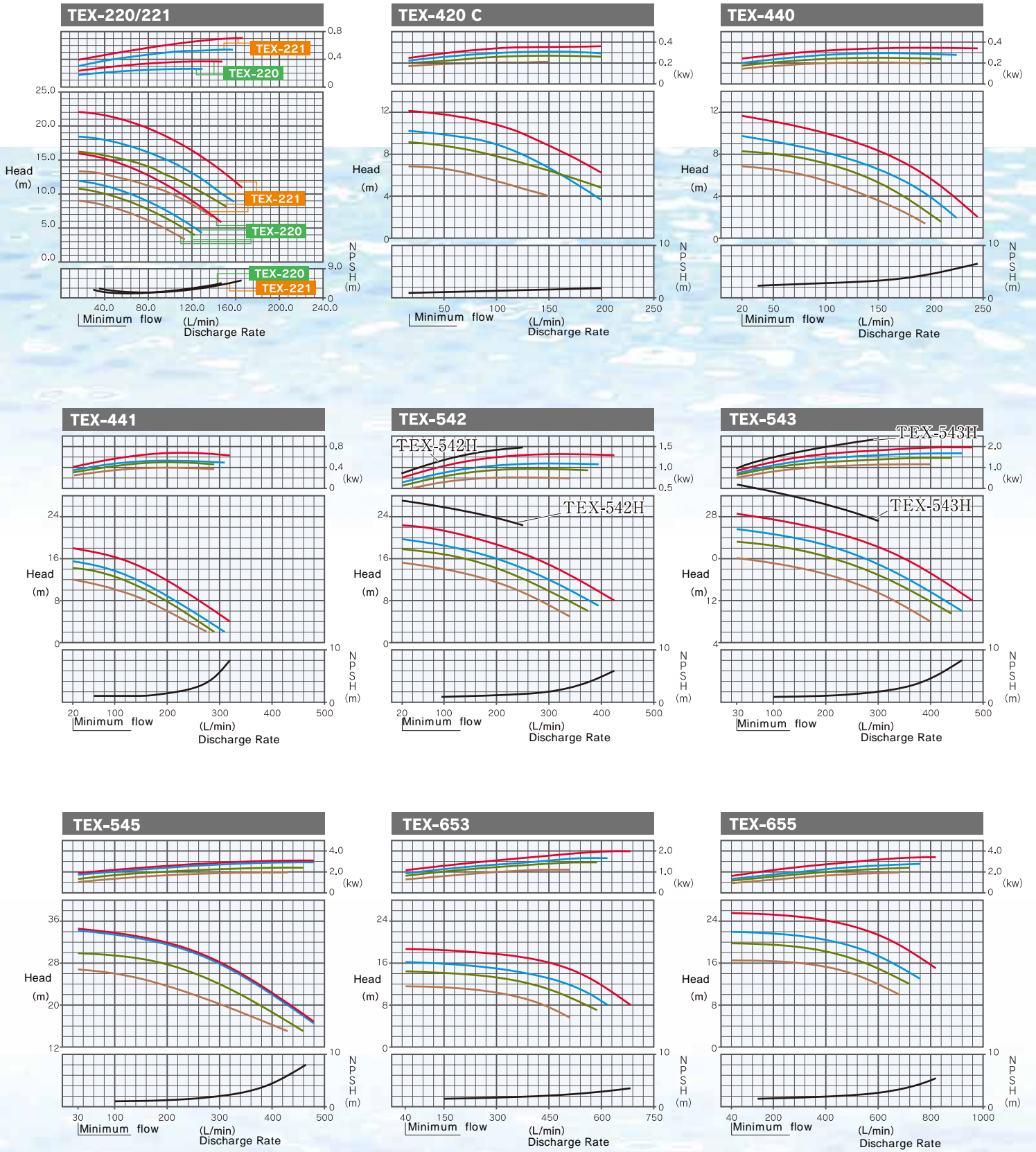
Standard Specifications

MODEL	BORE INLET / OUTLET	MOTOR kW	IMPELLER SIZE	50Hz		60Hz	
				Head m	Discharge rate L/min	Head m	Discharge rate L/min
TEX-220 P/F	25A/25A	0.4	A	13	60	12	60
			B	10	50	11	50
			C	9	50	10	50
			D	7	50	8	50
TEX-221 P/F	25A/25A	0.75	A	17	80	20	80
			B	16	80	17	80
			C	14	80	15	80
			D	10	80	12	80
TEX-420 C	40A/25A	0.4	A	10	100	9	100
			B	8	90	8	90
			C	7	80	7	80
			D	6	50	6	50
TEX-440 P/F	40A/40A	0.4	A	9	110	10	100
			B	8	90	9	90
			C	7	80	8	80
			D	6	50	7	50
TEX-441 P/F/C	40A/40A	0.75	A	13	150	13	150
			B	12	120	12	120
			C	11	120	10	120
			D	10	100	8	120
TEX-542 P/F/C	50A/40A	1.5	A	18	210	18	210
			B	16	160	16	180
			C	14	160	14	180
			D	12	150	12	150
TEX-542H P/F/C	50A/40A	1.5	H	26	100	29	100
TEX-543 P/F/C	50A/40A	2.2	A	24	220	25	200
			B	22	200	22	200
			C	20	180	20	180
			D	17	160	18	150
TEX-543H P/F/C	50A/40A	2.2	H	33	150	33	150
TEX-545 P/F/C	50A/40A	3.7	A	30	240	36	200
			B	30	240	32	200
			C	27	220	29	200
			D	22	220	24	200
TEX-653 P/F/C	65A/50A	2.2	A	13	480	14	450
			B	11	450	12	450
			C	10	400	10	450
			D	8	320	9	400
TEX-655 P/F/C	65A/50A	3.7	A	20	600	18	600
			B	16	600	16	600
			C	14	600	14	600
			D	12	500	12	500

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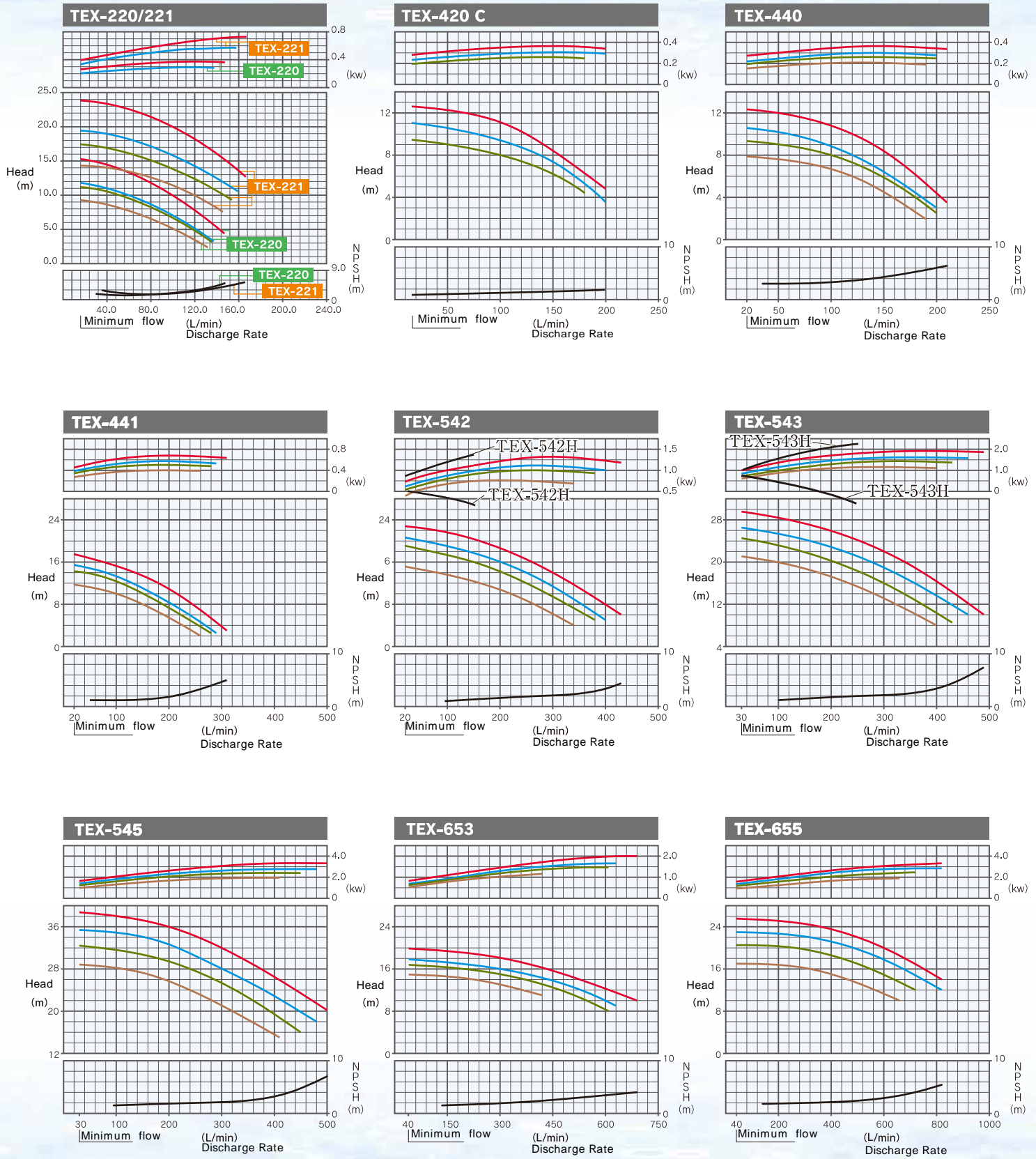
Performance Curve 50Hz

- Specific gravity limit 1.1 Impeller-A
- Specific gravity limit 1.3 Impeller-B
- Specific gravity limit 1.5 Impeller-C
- Specific gravity limit 1.9 Impeller-D



Performance Curve 60Hz

- Specific gravity limit 1.1 Impeller-A
- Specific gravity limit 1.3 Impeller-B
- Specific gravity limit 1.5 Impeller-C
- Specific gravity limit 1.9 Impeller-D



TEX-L

Midium to large capacity pump

Feature

- Basic liquid-end material for ETFE
- High corrosion resistance to wide range of chemicals to be transferred
- Outdoor motor installed as standard.

Range of use

- Motor output(kW) 5.5-18.5
- Discharge rate(L/min) 100-1400
- Head(m) 20-50

Model constitution

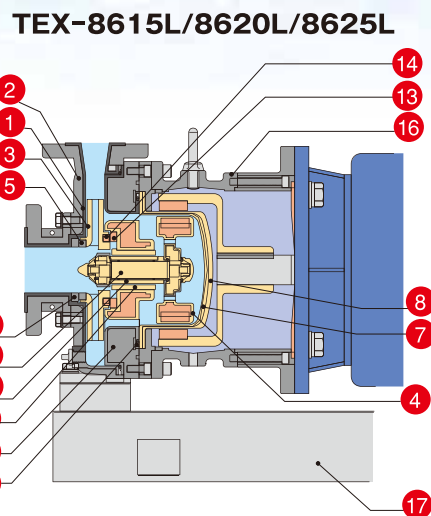
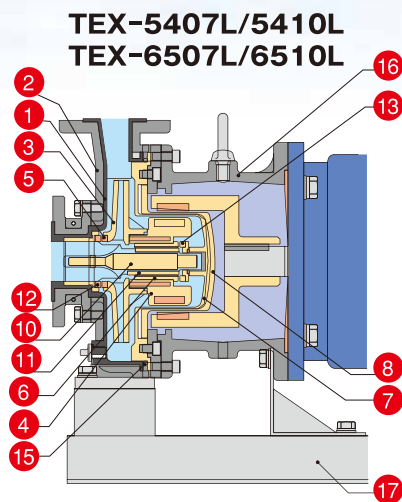
TEX-65 07 L - S V 5 A
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ETFE is nearly equal chemical resistance with PTFE(Teflon®).
- Teflon® is trademark registration of DuPont USA.



① Series	② Bore	③ Motor	④ Material	⑤ Bearing	⑥ O-Ring	⑦ Hz	⑧ Specific gravity limit	
TEX	4...40A	6...65A	L...CFR-ETFE	C...Carbon S...SiC	V...FKM E...EPDM	5...50Hz 6...60Hz	A...1.1	D...1.9
							B...1.3	S...Special
	5...50A	8...80A			10...7.5kW 20...15kW 15...11kW	S...Special	C...1.5	

Construction



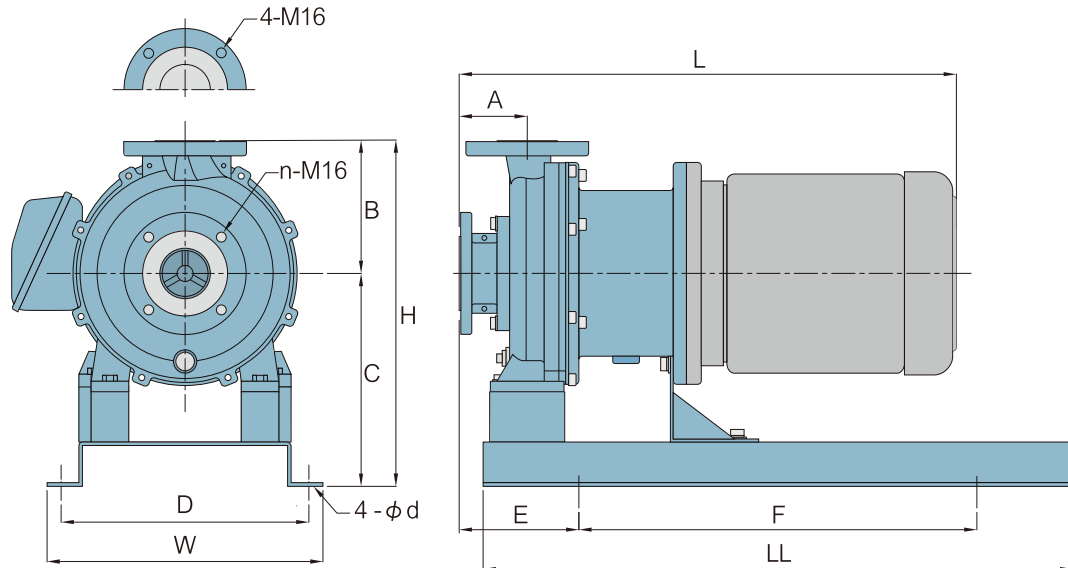
No.	Part name	TEX 5407/5410L	TEX-6507/6510L	TEX-8615/8620/8625L
1	Front casing	CFR-ETFE		
2	Front casing cover	Cast Iron		
3	Impeller	CFR-ETFE		
4	Magnetic can	Natural ETFE		
5	Mouth ring	PTFE / SiC	PTFE / SiC	SiC
6	Bearing	PTFE / SiC	PTFE / SiC	SiC
7	Rear casing	CFR-ETFE		
8	Rear casing cover	Specially reinforced resin		
9	Bearing plate	—	—	FC+ ETFE
10	Shaft	Ceramic / SiC	Ceramic / SiC	ETFE+SUS304
11	Shaft sleeve	—	—	SiC
12	Front thrust	Ceramic / SiC	Ceramic / SiC	SiC
13	Rear thrust	Ceramic / SiC	Ceramic / SiC	SiC
14	Reae ring	—	—	SiC
15	O-ring	FKM/EPDM/ Special		
16	Bracket	Cast Iron		
17	Base	SUS304		

Standard Specifications

MODEL	BORE INLET/OUTLET	MOTOR (kW)	Head (m) 50/60Hz	Dis. rate (L/min)
TEX-5407	50A/40A	5.5	41	300
TEX-5410	50A/40A	7.5	49	300
TEX-6507	65A/50A	5.5	31	500
TEX-6510	65A/50A	7.5	31/39	500
TEX-8615	80A/65A	11	34	1000
TEX-8620	80A/65A	15	34/45	1000
TEX-8625	80A/65A	18.5	34/53	1000

*The specific gravity limit varies with the impeller diameter. For details, contact your local distributor.

Dimensions list



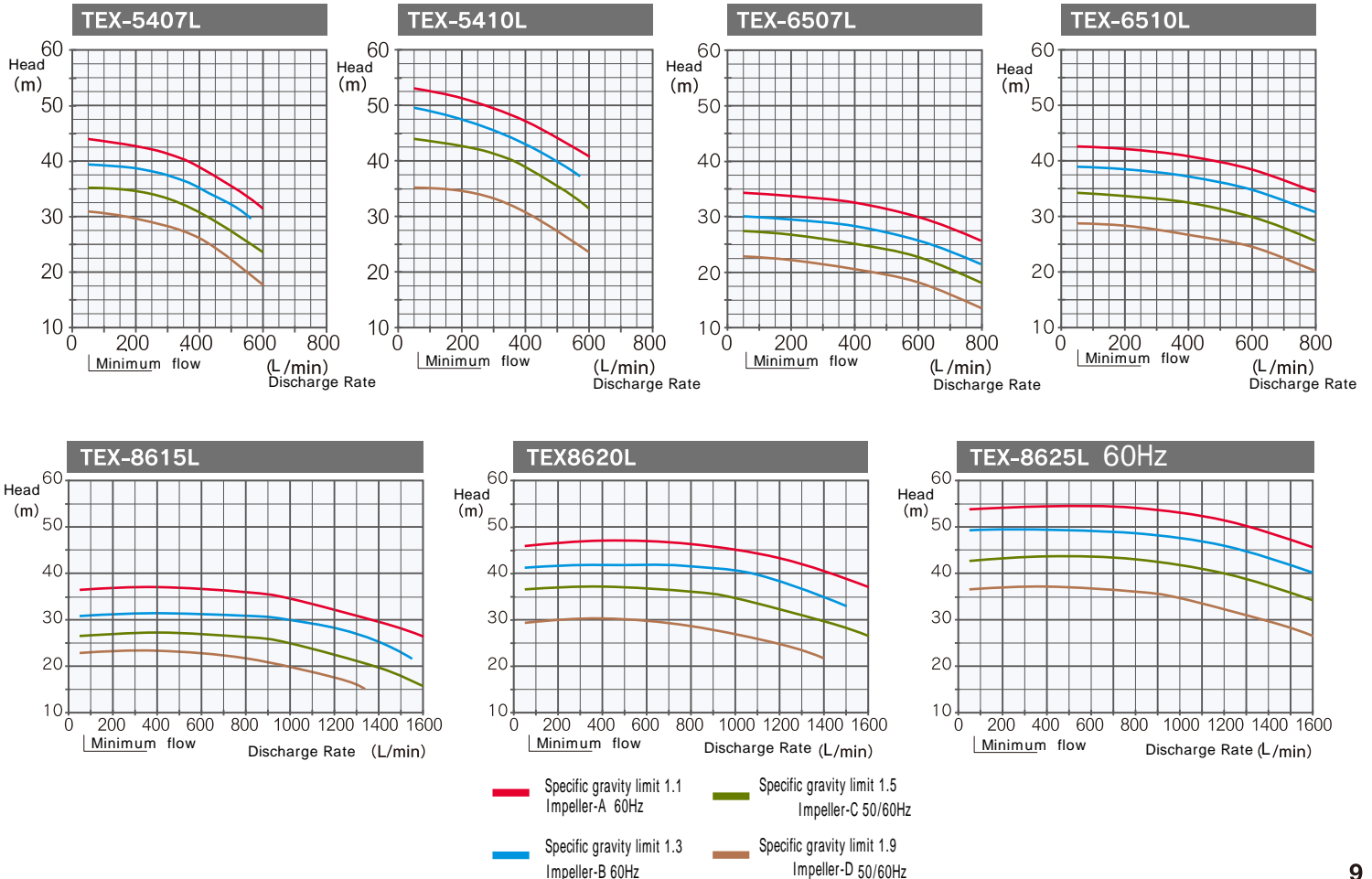
MODEL	INLET / OUTLET	A	B	C	D	E	F	H	L	LL	W	d	n
TEX-5407/5410	50A/40A	80	180	280	320	150	540	460	670	800	360	18	4
TEX-6507/6510	65A/50A	80	160	252	320	150	540	412	717	800	360	18	4
TEX-8615/8620/8625	80A/65A	100	180	300	350	190	600	480	887 931 (8625)	900	390	20	8

:mm

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Performance Curve 50Hz · 60Hz

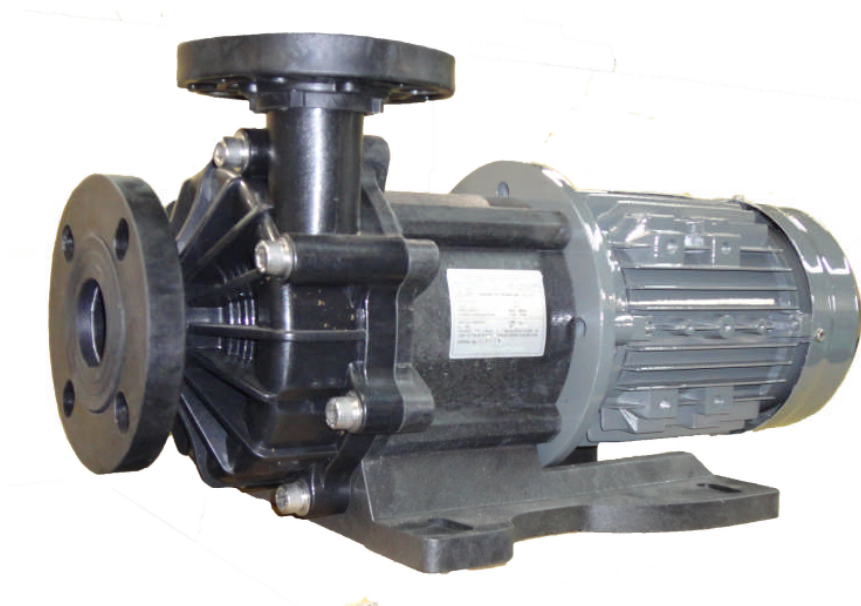
- Specific gravity limit 1.1 Impeller-A
- Specific gravity limit 1.5 Impeller-C
- Specific gravity limit 1.3 Impeller-B
- Specific gravity limit 1.9 Impeller-D



Magnetic pumps with medium capacity

■ Features

- The pumps more than 0.75kW use a Neodymium magnet, Small size light weighted magnet can.
- New development impeller , One structure
By molding impeller and shroud one,The balance of the impeller improved.
Minimized vibration.
- All model resin bracket and pump base.
Bracket and pump base made by resin superior in corrosion resistance.
Corrosion resistance improved drastically.
- Outdoor motor installed at standard.



■ Model constitution

TED-400P-CV5A

① ② ③ ④ ⑤ ⑥ ⑦

① Dis. Bore		② Motor				③ Material	
4	40A	0	0.4kW	3	2.2kW	P	GFR-PP
5	50A	1	0.75kW	5	3.7kW	F	CFR-ETFE
		2	1.5kW				

④ Bearing		⑤ オリング		⑥ Hz		⑧ Specific gravity limit			
C	Carbon	V	FKM	5	50Hz	A	1.1	D	1.9
R	PTFE	E	EPDM	6	60Hz	B	1.3	S	special
A	Alumina ceramic	S	special			C	1.5		

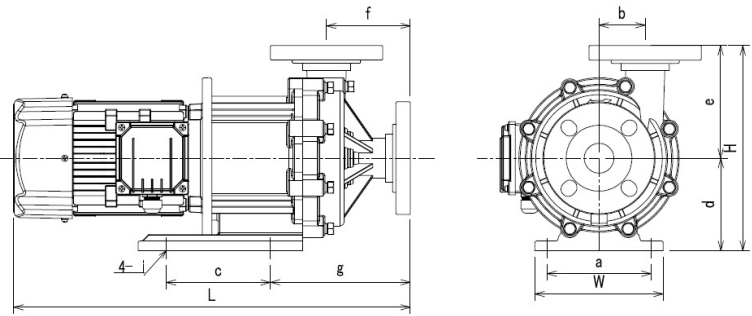
* ETFE is nearly equal chemical resistance with PTFE(Teflon®).
* Teflon® is trademark registration of DuPont USA.

Standard specifications

MODEL	BORE	50Hz	60Hz
TED-400P/F	40A × 40A	8m × 150L/min	8m × 150L/min
TED-401P/F	40A × 40A	12m × 200L/min	12m × 200L/min
TED-402P/F	50A × 40A	12m × 300L/min	12m × 300L/min
TED-403P/F	50A × 40A	18m × 360L/min	17m × 360L/min
TED-405P/F	50A × 40A	25m × 400L/min	26m × 400L/min
TED-505P/F	60A × 50A	20m × 600L/min	20m × 600L/min

Dimensions list

型式	W	H	L	a	b	c	d	f	g
TED-400	140	216	438	110	51	98	95	87	150
TED-401	160	254	495	130	57.5	130	115	103	185
TED-402	260	255	504	208	65	200	115	89	158
TED-403	260	255	530	208	65	200	115	89	158
TED-405	260	270	578	230	65	200	130	89	158
TED-505	260	298	620	230	65	260	135	110	175

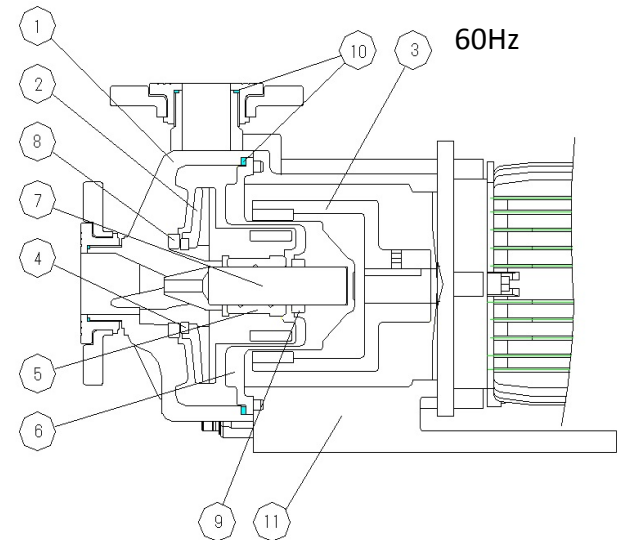


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Construction

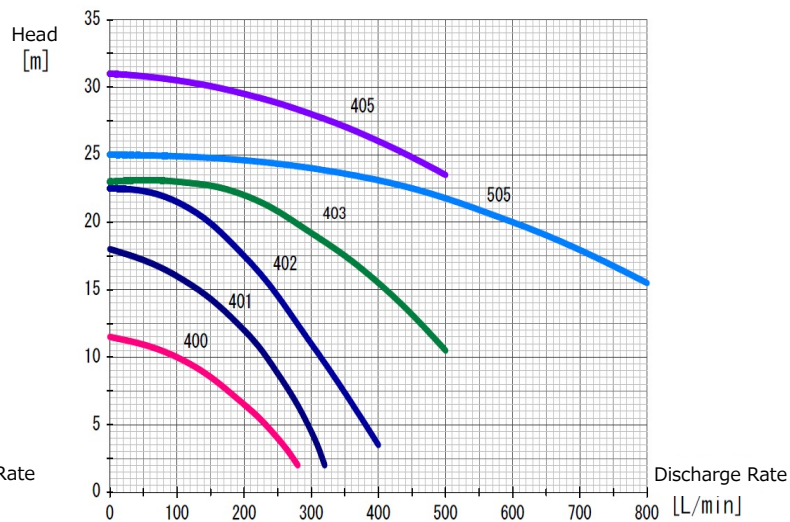
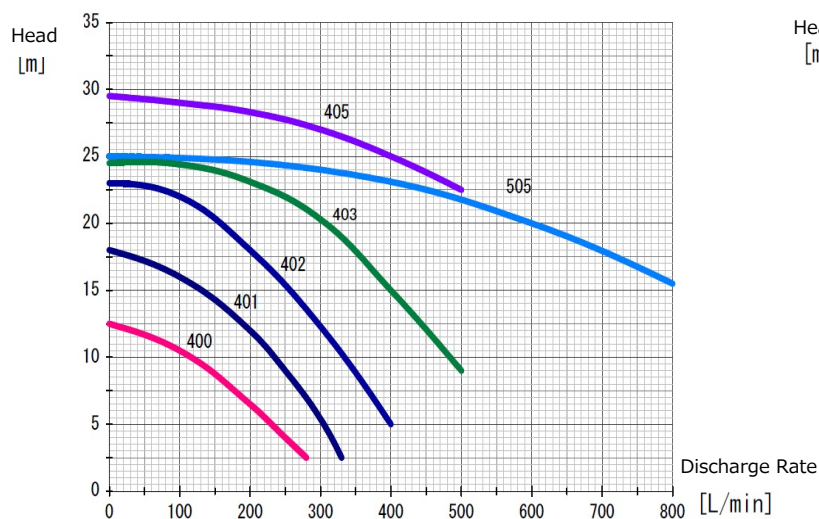
50Hz

No.	Part name	Material
①	Front casing	GFR-PP / CFR-ETFE
②	Impeller	GFR-PP / CFR-ETFE
③	Drive magnet	Ferrite / Neodymium
④	Mouth ring	PTFE
⑤	Bearing	Carbon / Alumina ceramic / PTFE
⑥	Rear casing	GFR-PP / CFR-ETFE
⑦	Shaft	Alumina ceramic
⑧	Front thrust	Alumina ceramic
⑨	Rear thrust	Alumina ceramic
⑩	O-ring	FKM / EPDM
⑪	Bracket	GFR-PP



60Hz

Performance Curve



*Performance based on water @ 70 °F (21 °C). Fluids with specific gravity other than 1.1 should be reviewed by the factory.

316 STAINLESS VERTICAL VOLUTE PUMP

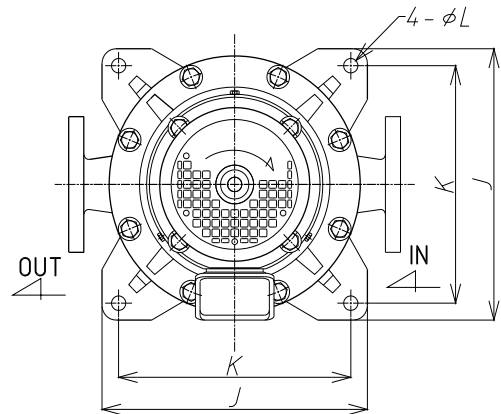
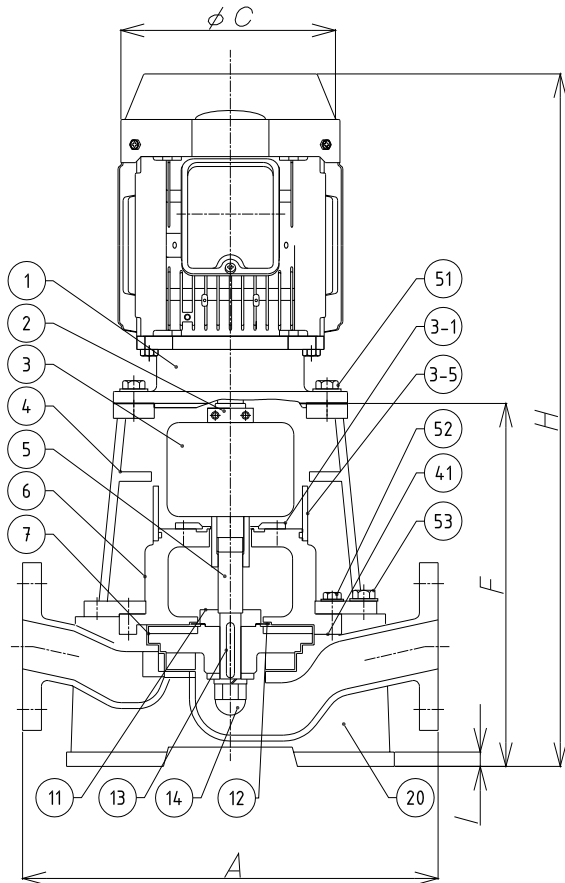
- 316 Stainless steel material.
- Max. fluid temperature :203F、 95 .
- High efficiency , leak-free operation and easy maintenance.
- Excellent chemical resistance strong alkalinity.
- CSS-seal is non-contact to a liquid and other part



Things to be aware of when using

- Use inverter must be driving in 40Hz or more.
- suction head less than +4m

Construction



Typical applications

- Chemical or water recirculation.
- Waste treatment.
- Plating solutions.
- PCB process chemical recirculation

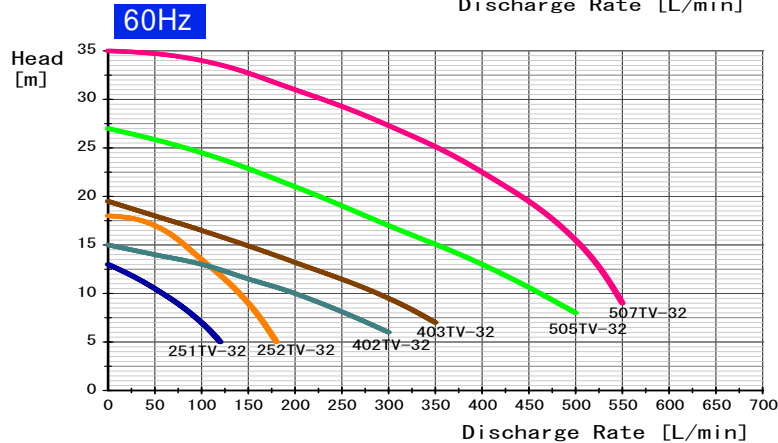
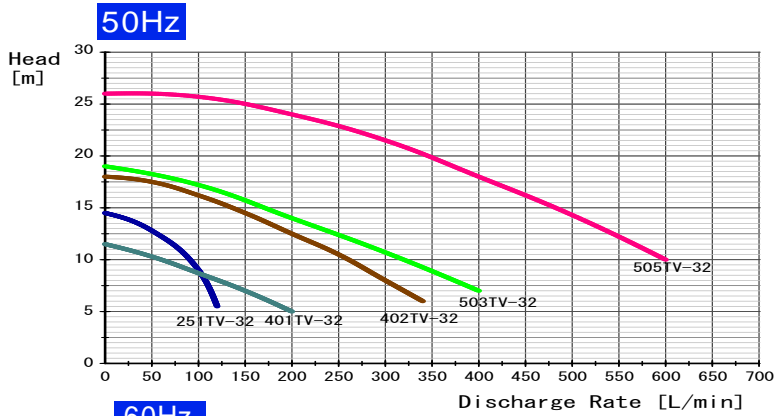
No .	Part name	Material	No .	Part name	Material	No .	Part name	Material
1	Motor	-----	11	Collar	SUS316	52	Bolt	SUS304
2	Separate Collar	S45C	12	Shaft Packing	PTFE	41	O-Ring	FKM
3	CSS-Seal	----	13	Shaft Key	SUS316	53	Bolt	SUS304
4	Motor Stand	Cast Iron	14	Impeller Nut	SUS316			
5	Shaft	SUS316	51	Bolt	SUS304			
6	Back Casing	SCS14/SUS316	3-1	Packing Flange	SUS316			
7	Impeller	PTFE	3-5	Seal Cover	PMMA			

Dimensions list

MODEL	INLET /OUTLET	Motor kW	A	C	F	H	I	J	K	L
TEK-251TV-32	2 5 A / 2 5 A	0.75kW	355	170	303	536	12	280	245	15
TEK-252TV-32		1.5kW		198		578				
TEK-401TV-32	4 0 A / 4 0 A	0.75kW	355	170	303	536	12	280	245	15
TEK-402TV-32		1.5kW		198		578				
TEK-403TV-32		2.2kW		198		578				
TEK-503TV-32	5 0 A / 5 0 A	2.2kW	405	198	340	615	12	315	280	15
TEK-505TV-32		3.7kW		214		673				
TEK-507TV-32		5.5kW		252		697				

• Please note that structure and dimension may change without prior notice. • When designing,request drawing and reconfirm.

Performance Curve



*Performance based on water @ 70 °F (21 °C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.

Standard Specifications

50Hz

MODEL	BORE mm	Motor kW	Head m	Dis.Late L/min
TEK-251TV-32	25	0.75	7	120
TEK-401TV-32	40	0.75	7	160
TEK-402TV-32		1.5	10	260
TEK-503TV-32	50	2.2	9	350
TEK-505TV-32		3.7	10	600

60Hz

MODEL	BORE mm	Motor kW	Head m	Dis.Late L/min
TEK-251TV-32	25	0.75	7	100
TEK-252TV-32		1.5	8	160
TEK-402TV-32	40	1.5	8	260
TEK-403TV-32		2.2	9	320
TEK-505TV-32	50	3.7	13	400
TEK-507TV-32		5.5	16	500

Running Monitor

EOCR monitors the input power to the pump.
Capable of detecting both over-load and under-load conditions.
EOCR monitor offers protection from off-design conditions.
such as

- Dry running
- Open-phase
- Dead head
- End of curve
- Cavitation
- Excessive bearing wear

Specifications

Relay output: 2-SPST, 3A/250VAC Resistive.

Supply Voltage: 110 VAC +-15% / 220 VAC +-15%

Frequency: 50 Hz / 60 Hz

Rated Current: Over-Current(oc) 0.5~960A(Over 60A with External CTs)

Under-Current(uc) 0.5~59A/OFF(Over 60A with External CTs)

Current Sensing: 3-CT

Mounting: 35mm DIN-Rail



SELF-PRIMING VERTICAL VOLUTE CHEMICAL PUMP

TEK-S-PP Polypropylene



Typical applications

- Chemical or water recirculation.
- Waste treatment.
- Various plating solutions recirculation.
- PCB Plating solutions
- Wet processing
- Deliver Acids

Features

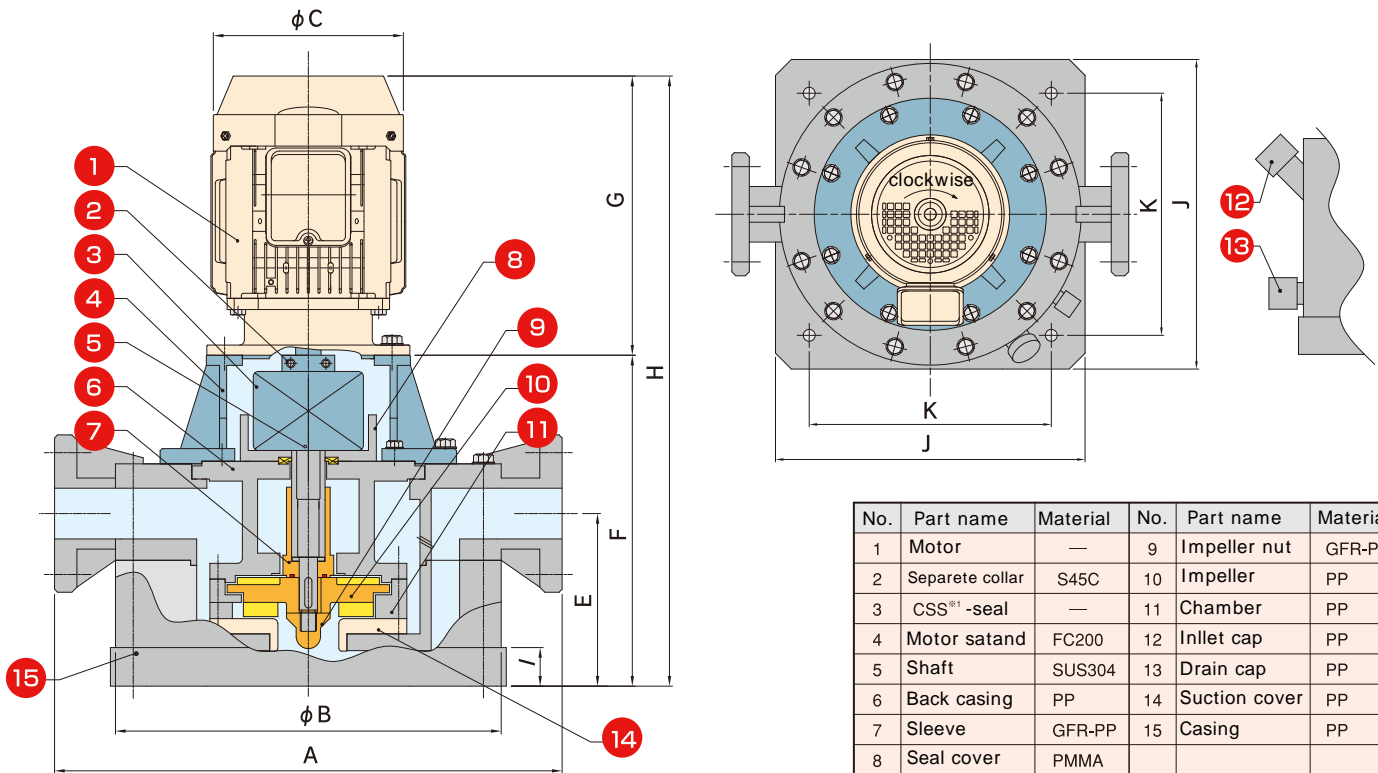
- We pump use resin having excellent chemical resistance to various chemicals strong alkalinity and acidity, sable in a wide range.
- We pump which is most suitable for electroless chemical copper.
- CSS-seal is non-contact to a liquid and other part.
- The water for self-priming, please supply water only in the first time, Water supply is unnecessary after the 2nd



Things to be aware of when using

- A resulting rise in temperature of liquid in the pump may cause damage to the pump.
- The pump should never be operated for a lengthy period with the valve closed.
- Do not run pump Cavitation

Construction



No.	Part name	Material	No.	Part name	Material
1	Motor	—	9	Impeller nut	GFR-PP
2	Separate collar	S45C	10	Impeller	PP
3	CSS ^{®1} -seal	—	11	Chamber	PP
4	Motor stand	FC200	12	Inlet cap	PP
5	Shaft	SUS304	13	Drain cap	PP
6	Back casing	PP	14	Suction cover	PP
7	Sleeve	GFR-PP	15	Casing	PP
8	Seal cover	PMMA			

※1) CSS···Centrifugal Seal System

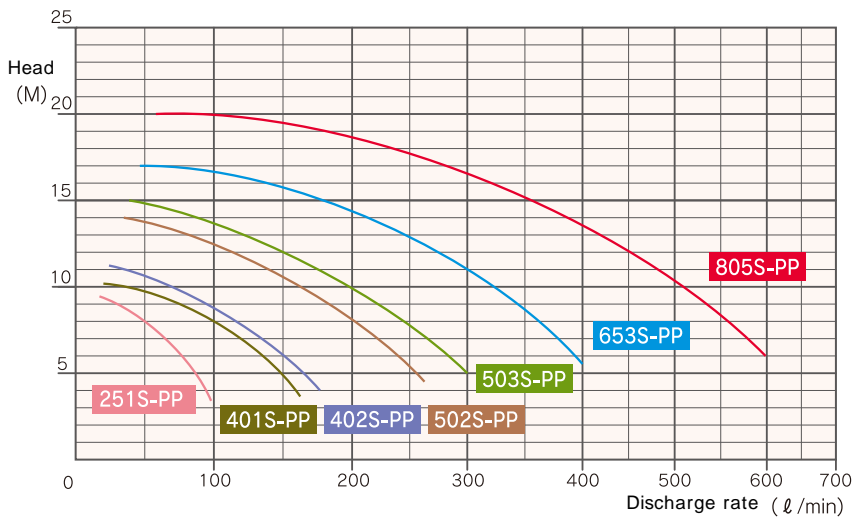
Dimensions list

MODEL	INLET /OUTLET	Motor kW	A	B	ϕC	E	F	G	H	I	J	K	ϕL
TEK-251S-PP	25A/25A	0.75	420	320	163	140	298	233	531	28	325	245	15
TEK-252S-PP		1.5			187			275	573				
TEK-401S-PP	40A/40A	0.75	500	380	163	170	326	233	559	38	390	305	15
TEK-402S-PP		1.5			187			275	601				
TEK-502,503S-PP	50A/50A	1.5/2.2	500	380	187	170	326	275	601	38	390	305	15
TEK-653S-PP	65A/65A	2.2	560	445	187	220	347	275	637	48	460	360	15
TEK-655S-PP		3.7			202		354	326	724				
TEK-805S-PP	80A/80A	3.7	560	445	202	220	354	326	724	48	460	360	15
TEK-807S-PP		5.5			243		334	370	733				

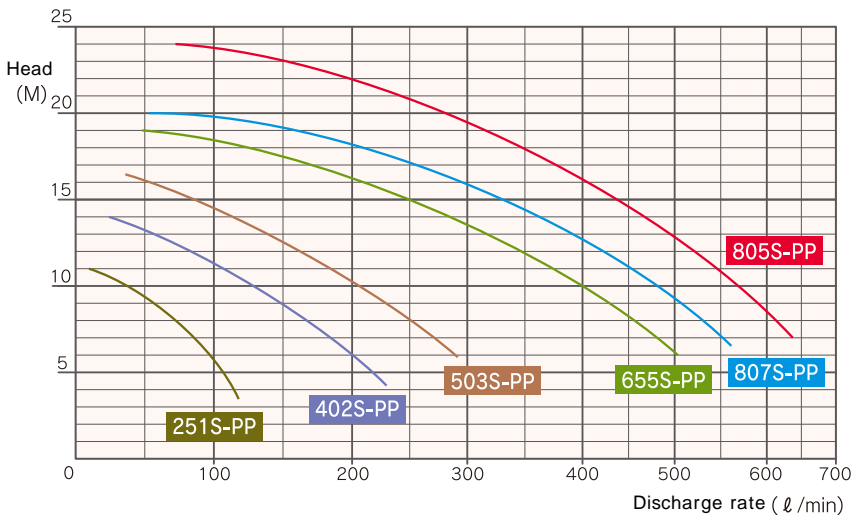
• Please note that structure and dimension may change without prior notice
• When designing, request drawing and reconfirm

Performance Curve

50Hz



60Hz



*Performance based on water @ 70 °F (21 °C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.

CSS - Seal Features

Centrifugal Seal System

- CSS-seal is non-contact to a liquid and other part.
- Therefore, abrasion and the heat generation are not generated.
- While a pump running, a seal impeller encloses a liquid.
- While a pump stops, CSS-seal encloses a liquid.



Things to be aware of when using

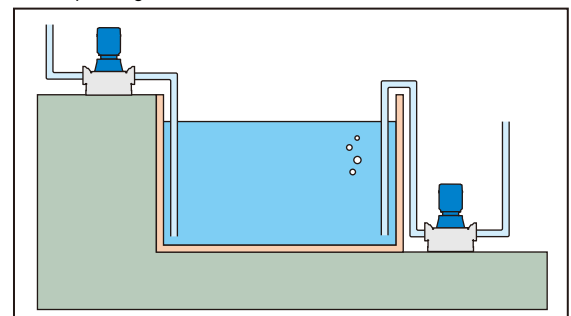
- Use inverter must be driving in 40Hz or more.
- suction head less than +4m

Standard Specifications

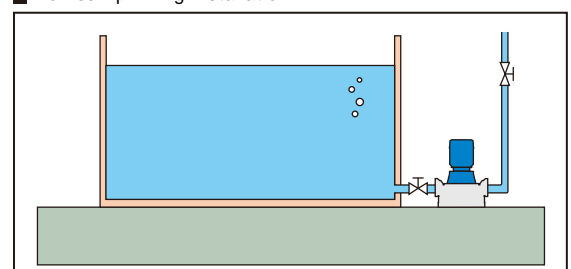
MODEL	BORE mm	Motor kW	Head M	Dis.Late L/min
TEK-251S-PP	25	0.75	5	80
TEK-401S-PP	40	0.75	5	150
TEK-402S-PP	40	1.5	6	150
TEK-502S-PP	50	1.5	7	220
TEK-503S-PP	50	2.2	7	245
TEK-653S-PP	65	2.2	8	360
TEK-805S-PP	80	3.7	10	510

MODEL	BORE mm	Motor kW	Head M	Dis.Late L/min
TEK-251S-PP	25	0.75	5	110
TEK-402S-PP	40	1.5	9	150
TEK-503S-PP	50	2.2	10	210
TEK-655S-PP	65	3.7	10	400
TEK-805S-PP	80	3.7	11	450
TEK-807S-PP	80	5.5	13	500

self-priming installation



non self-priming installation



No problem at any installation

SELF-PRIMING VERTICAL VOLUTE CHEMICAL PUMP

TEK-S-P

PVC



Typical applications

- Chemical or water recirculation.
- Wwaste treatment.
- Various plating solutions recirculation
- PCB Plating solutions
- Wet processing
- Deliver Acids

Features

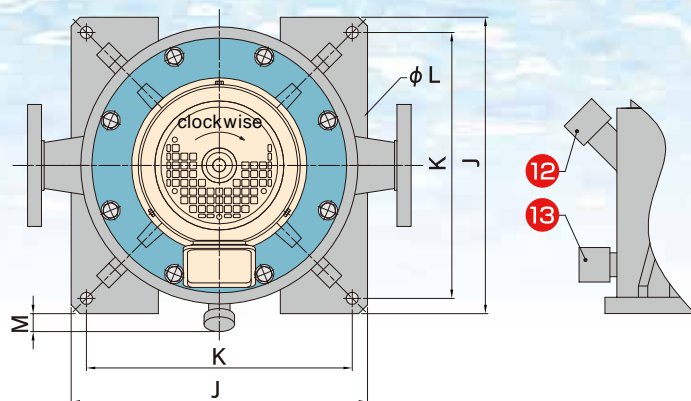
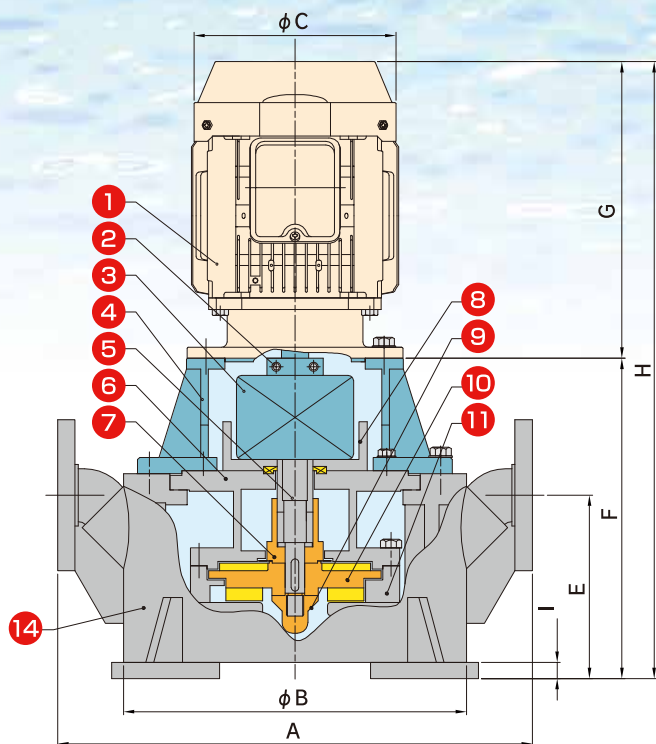
- We pump use resin having excellent chemical resistance to various chemicals strong alkalinity and acidity, sable in a wide range.
- CSS-seal is non-contact to a liquid and other part.
- The water for self-priming, please supply water only in the first time, Water supply is unnecessary after the 2nd

Things to be aware of when using



- A resulting rise in temperature of liquid in the pump may cause damage to the pump.
- The pump should never be operated for a lengthy period with the valve closed.
- Do not run pump Cavitation

Construction



Part name	Mterial	No.	Part name	Mterial
1 Motor	—	8 Seal cover	PMMA	
2 Separete collar	S45C	9 Impeller nut	GFR-PP	
3 CSS ^{※1} -seal	—	10 Impeller	HT-PVC	
4 Motor Stand	FC200	11 Chamber	PVC	
5 Shaft	SUS304	12 Inlet cap	PVC	
6 Back casing	HT-PVC	13 Drain cap	PVC	
7 Shaft sleeve	GFR-PP	14 Casing	PVC	

※1) CSS···Centrifugal Seal System

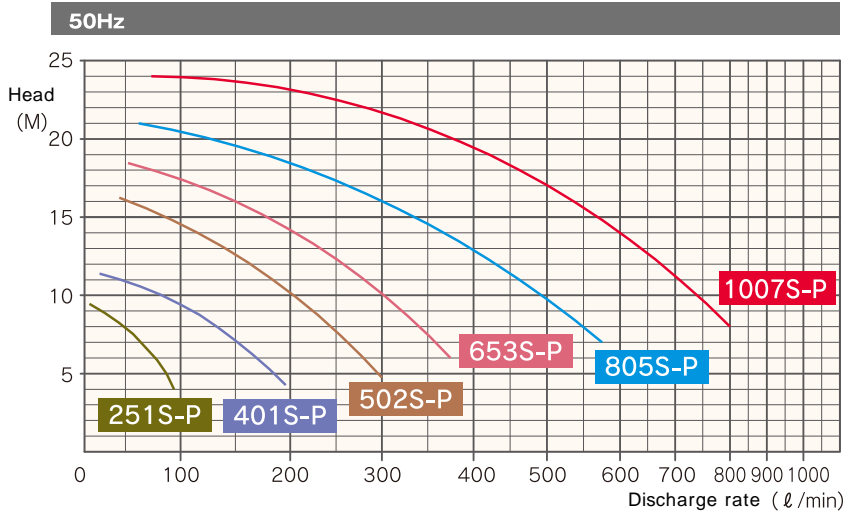
Dimensions list

MODEL	INLET / OUTLET	Motor kW	A	B	φ C	E	F	G	H	I	J	K	φ L	M
TEK-251S-P	25A/25A	0.75	350	267	163	140	267	233	500	15	280	245	14	60
TEK-252S-P		1.5			187			275	542					
TEK-401S-P	40A/40A	0.75	440	318	163	170	297	233	530	15	340	305	14	60
TEK-402S-P		1.5			187			275	572					
TEK-502,503S-P	50A/50A	1.5/2.2	440	318	187	170	297	275	572	15	340	305	14	60
TEK-653S-P	65A/65A	2.2	560	420	187	220	357	275	632	20	400	360	14	80
TEK-655S-P		3.7			202		364	326	690					
TEK-657S-P		5.5			243		344	370	714					
TEK-805S-P	80A/80A	3.7	560	420	202	220	364	326	690	20	400	360	14	80
TEK-807S-P		5.5			243		344	370	714					
TEK-1007S-P	100A/100A	5.5	660	470	243	330	465	370	835	30	485	440	15	100
TEK-10010S-P		7.5			243			370	835					
TEK-403S-PH	40A/40A	2.2	440	318	187	170	297	275	572	15	340	305	14	60
TEK-505S-PH	50A/50A	3.7	490	370	202	220	364	326	690	20	365	325	14	80
TEK-507S-PH		5.5			243		344	370	714					
TEK-6510S-P	65A/65A	7.5	560	420	243	220	354	370	724	25	400	360	14	100

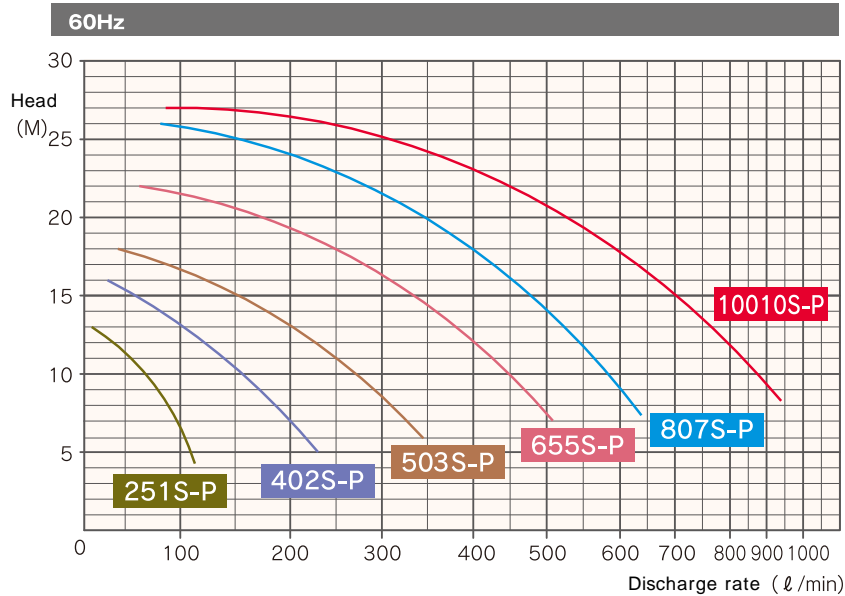
• Please note that structure and dimension may change without prior notice
 • When designing, request drawing and reconfirm

Performance Curve

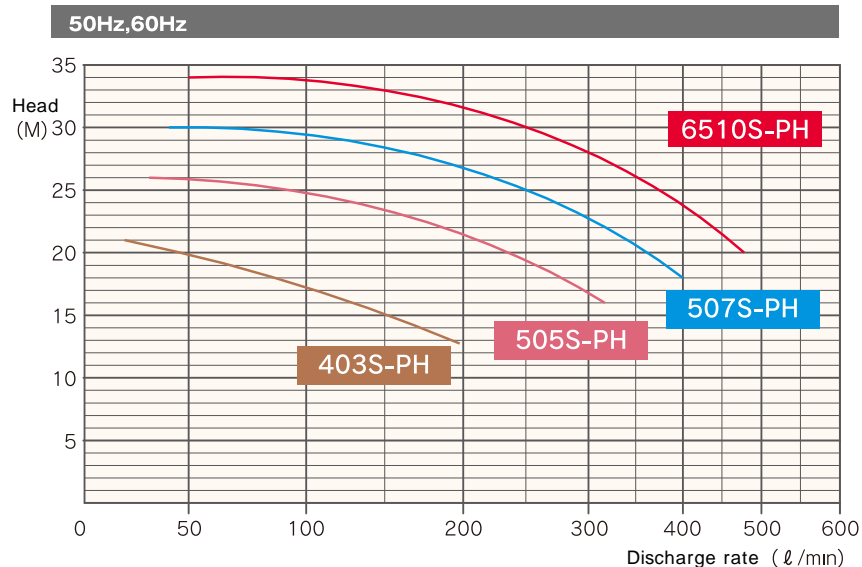
Standard Specifications



MODEL	BORE mm	Motor kW	Head M	Dis.Rate L/min
TEK-251S-P	25	0.75	5	80
TEK-401S-P	40	0.75	7	150
TEK-502S-P	50	1.5	9	230
TEK-653S-P	65	2.2	12	255
TEK-805S-P	80	3.7	14	360
TEK-1007S-P	100	5.5	17	500



MODEL	BORE mm	Motor kW	Head M	Dis.Rate L/min
TEK-251S-P	25	0.75	5	110
TEK-402S-P	40	1.5	7	200
TEK-503S-P	50	2.2	9	290
TEK-655S-P	65	3.7	12	400
TEK-807S-P	80	5.5	14	500
TEK-10010S-P	100	7.5	17	630



MODEL	BORE mm	Motor kW	Head M	Dis.Rate L/min
TEK-403S-PH	40	2.2	15	150
TEK-505S-PH	50	3.7	20	240
TEK-507S-PH	50	5.5	25	250
TEK-6510S-PH	65	7.5	28	300



Things to be aware of when using

- Use inverter must be driving in 40Hz or more.
- suction head less than +4m

*Performance based on water @ 70 °F (21 °C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.

NON-SEAL VERTICAL PUMP

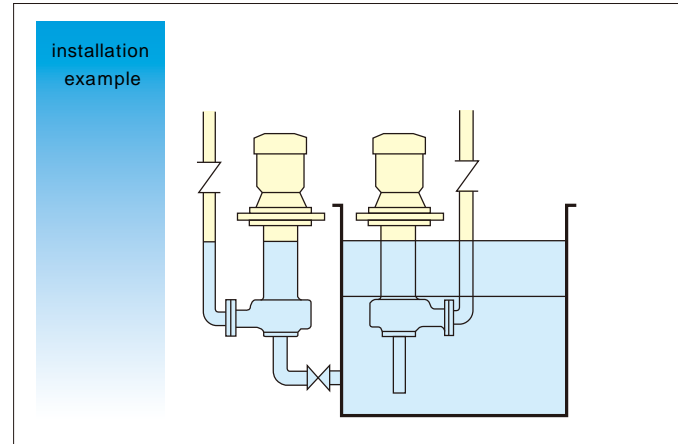
TEK-V-P

PVC

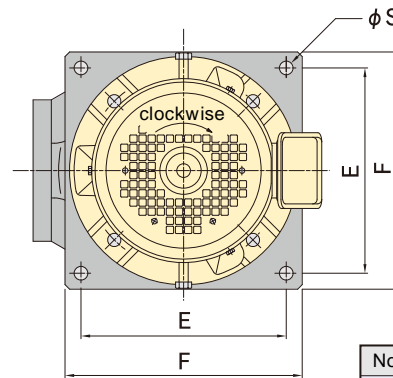
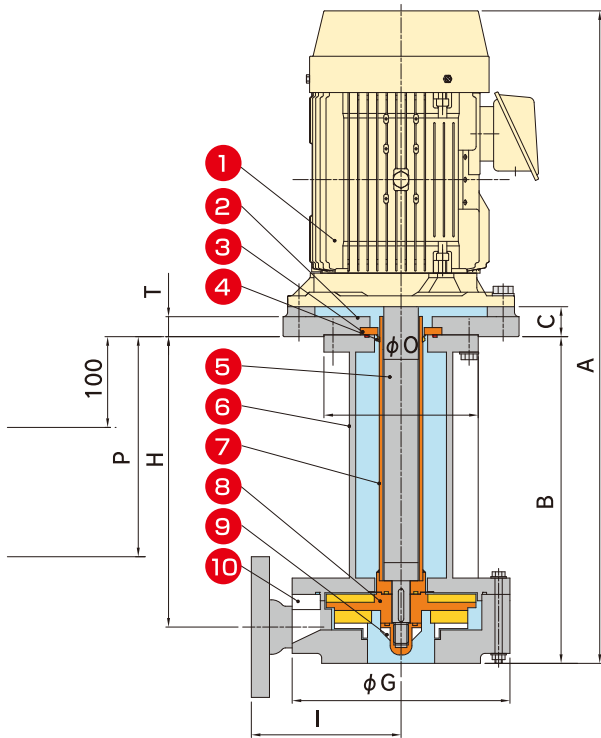
- PVC construction.
- High efficiency-low operating cost, leekfree operation and easy maintenance.
- Excellent chemical resistance.
- No seals and bearings in pump head to wear out.

Typical applications

- Chemical or water recirculation.
- Fume scrubbers / waste treatment.
- Various plating solutions recirculation
- PCB Plating solutions • Wet processing • Deliver Acids



Construction



No.	Part name	Material
1	Motor	—
2	Base	HT-PVC
3	counter face	Carbon
4	V-Ring	NBR
5	Shaft	SUS304
6	Body	PVC
7	Shaft sleeve	HT-PVC
8	Impeller	HT-PVC
9	Impeller nut	GFR-PP
10	Casing	PVC

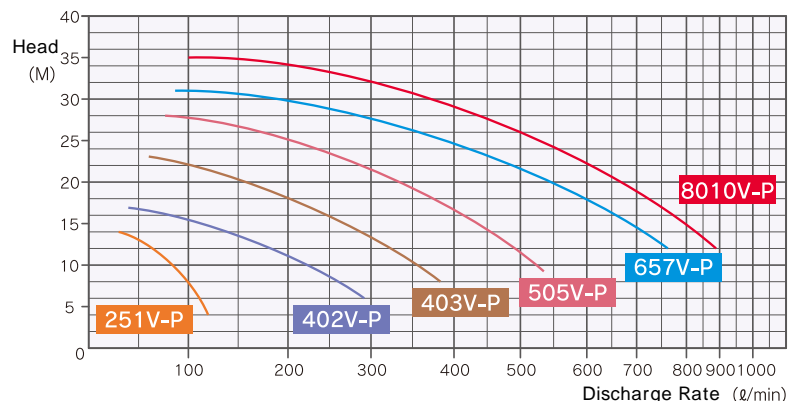
Dimensions list

MODEL	INLET / OUTLET	Motor _{kW}	A	B	C	E	F	ϕ G	H	I	ϕ O	P	ϕ S	T
TEK-251V-P	40A/25A	0.75	591	311	24	205	240	190	270	135	140	220	15	24
TEK-402V-P	50A/40A	1.5	678	355	33	225	260	240	320	165	170	250	15	22
TEK-403V-P	50A/40A	2.2	678	355	33	225	260	240	320	165	170	250	15	22
TEK-505V-P	65A/50A	3.7	763	360	33	225	260	240	320	165	170	250	15	22
TEK-657V-P	80A/65A	5.5	857	420	38	270	310	267	380	185	210	300	15	26
TEK-8010V-P	100A/80A	7.5	972	550	23	325	360	295	507	220	250	410	15	14

• Please note that structure and dimension may change without prior notice • When designing,request drawing and reconfirm

Standard Specifications 50Hz/60Hz

MODEL	Motor kW	Head M	Dis.Rate L/min
TEK-251V-P	0.75	10	75
TEK-402V-P	1.5	12	170
TEK-403V-P	2.2	14	275
TEK-505V-P	3.7	20	330
TEK-657V-P	5.5	22	470
TEK-8010V-P	7.5	24	550



*Performance based on water @ 70 F (21 °C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.

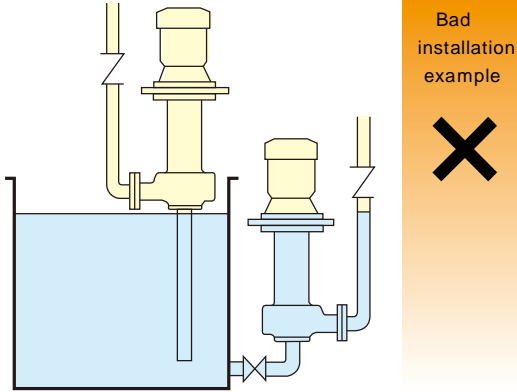
TEK-V-U

Ultra High Molecular Weight Polyethylene

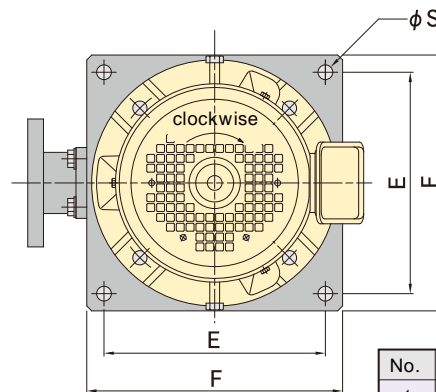
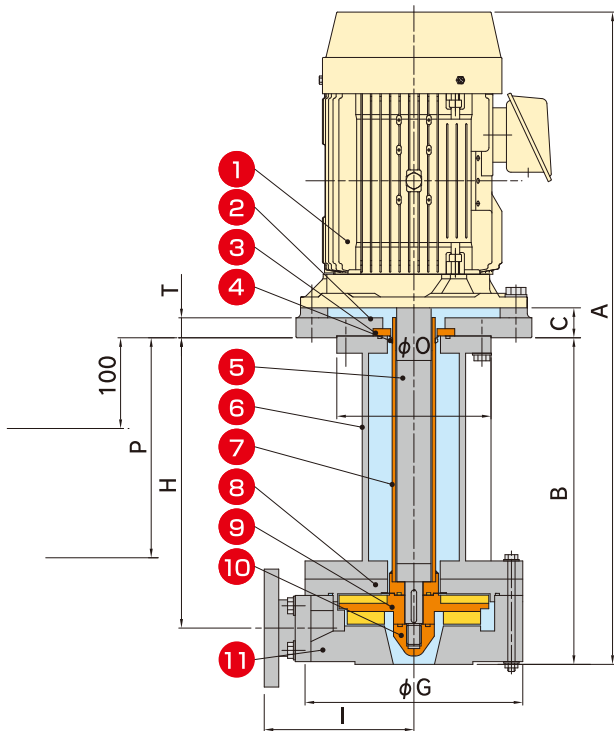
- UPE construction.
- Superior in wear resistance
- High efficiency-low operating cost, leekfree operation and easy maintenance.
- No seals and bearings in pump head to wear out.

Typical applications

- Chemical or water recirculation.
- Waste treatment.
- PCB Plating solutions
- Wet processing
- Polishing machine
- Jet scrubbing



Construction



No.	Part name	Material
1	Motor	—
2	Base	HT-PVC
3	counter face	Carbon
4	V-Ring	NBR
5	Shaft	SUS304
6	Body	PVC
7	Shaft sleeve	HT-PVC
8	Back flange	UPE
9	Impeller	UPE
10	Impeller nut	UPE
11	Casing	UPE

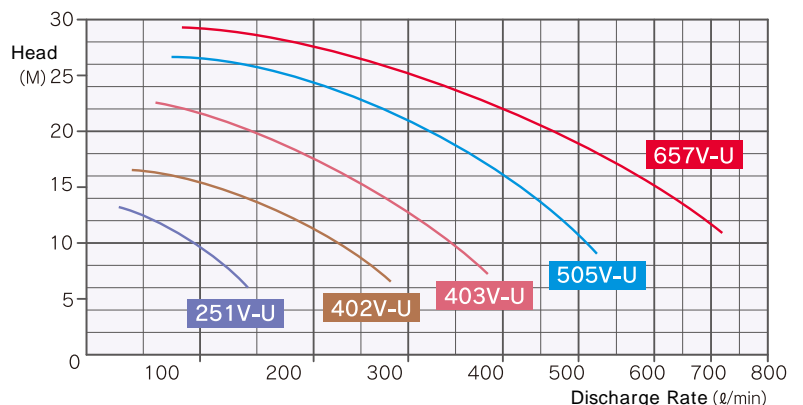
Dimensions list

MODEL	INLET / OUTLET	Motor kW	A	B	C	E	F	phi G	H	I	phi O	P	phi S	T
TEK-251V-U	40A/25A	0.75	589	309	24	205	240	195	280	155	140	205	15	24
TEK-402V-U	40A/40A	1.5	668	345	33	225	260	215	316	165	170	240	15	22
TEK-403V-U	50A/40A	2.2	673	350	33	225	260	235	315	175	170	240	15	22
TEK-505V-U	50A/50A	3.7	763	360	33	225	260	250	320	190	170	240	15	22
TEK-657V-U	80A/65A	5.5	867	430	38	270	310	300	380	225	210	275	15	26

• Please note that structure and dimension may change without prior notice • When designing, request drawing and reconfirm

Standard Specifications 50Hz/60Hz

MODEL	Motor kW	Head M	Dis. Rate L/min
TEK-251V-U	0.75	10	90
TEK-402V-U	1.5	12	165
TEK-403V-U	2.2	14	270
TEK-505V-U	3.7	16	400
TEK-657V-U	5.5	18	530



*Performance based on water @ 70 °F (21 °C). Fluids with specific gravity other than 1.0 should be reviewed by the factory.



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