

Self-priming volute pumps

MTP

TERAL



50Hz



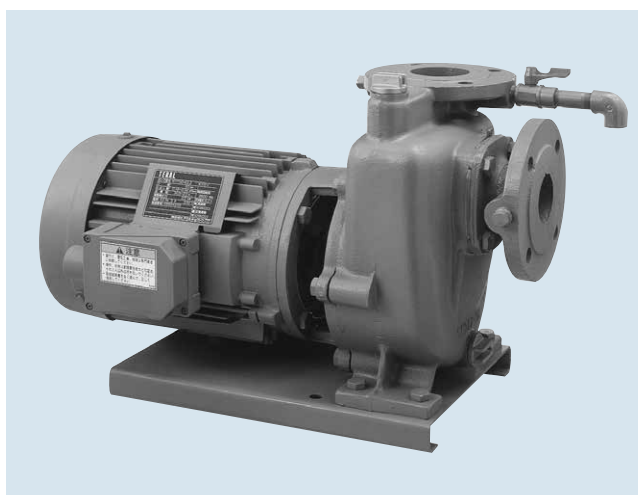
TERAL INC.

Applications

- General water supply for buildings, condominiums, etc.
- Cooling water
- Conveyance and distribution of industrial water
- Conveyance and distribution of tap water
- Irrigation and water sprinkling of paddies and fields
- Water pumping of driven wells
- Other uses

Features

- ① Energy-saving pump with a Top Runner efficiency (equivalent to IE3) motor.
- ② Compact and efficient mini-turbine by guide vane method with high efficiency.
- ③ Adoption of the mechanical sealing method allows for virtually no fluid leakage and excellent self-priming performance.
- ④ The direct-driven motor method makes centering unnecessary and lowers operation noise.
- ⑤ A foot valve is not required because it is self-priming. Also after priming once, no need to prime per use.
- ⑥ Disassembly and inspection performable without removing piping due to the B.P.O structure.
- ⑦ Compatible mounting dimensions with conventional pumps.



* Please note that some of the devices in the photo may differ from actual devices in coating color, etc.

Description of types

MTP 32 - 5 .75 - e

① ② ③ ④ ⑤

- ① Model
- ② Nominal suction/discharge diameter (32mm)
- ③ Frequency (50Hz)
- ④ Output (0.75kW)
- ⑤ Motor efficiency
Top Runner efficiency (equivalent to IE3)

Standard specifications / Special specifications

— : Not available

Pumping liquid	Liquid quality	Fresh water	
	Liquid temperature	0 ~ 40°C	
Total suction head (in case of 20°C)		— 7m	
Allowable positive pressure		0.20MPa	
Specifications		Standard specifications	Special specifications
Structure	Impeller	Closed	—
	Shaft seal	Mechanical seal(Ceramic vs Carbon)	—
	Bearing	Sealed ball bearing(built-in the motor)	—
	Casing drain	Plug	Cock
Material	Casing	FC200	—
	Impeller	CAC406	—
	Shaft	SUS304	—
Motor	Type	Totally enclosed fan-cooled outdoor type	—
	Power source	3-phase/200V	3-phase/400V..... 0.75kW 380/400/415V 1.5kW or more
	Synchronous rotation speed	3000min ⁻¹	—
Piping connection		JIS10K thin type flange	—
Painting	Paint color	7.5BG5/1.5	Specified color for outer surface
	Painting type	TERAL standard painting	Salt-resistant paint Heavy-duty salt-resistant paint Japan Sewage Works Agency specifications

* Please note that in case of special specifications, the assembly drawing, etc., may differ from the standard drawing.

Standard accessories

Common base 1
Companion flange(packaging, bolt and nut included) 2 sets
Strainer*1 1

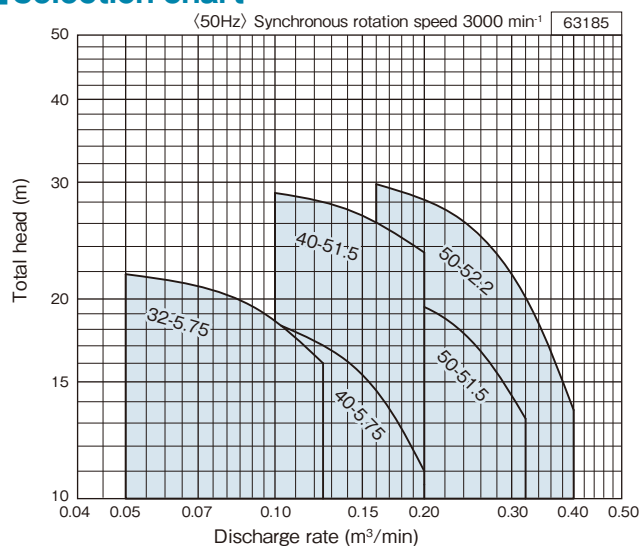
*1 Separately packaged.

Parts other than the above are included in the product components.

Special accessories

Sluice valve, check valve
Pressure gauge, compound gauge (with cock and pipes)
Pressure switch
Vibration isolation joint
Vibration isolator
Anchor bolt
Suction pipe reducer

Selection chart



Specification table

Nominal diameter mm	Model	Output kW	Specifications		Allowable positive pressure MPa
			Discharge rate m ³ /min	Total head m	
32	MTP32-5.75-e	0.75	0.090	19.5	0.20
40	MTP40-5.75-e	0.75	0.140	16.1	0.20
	MTP40-51.5-e	1.5	0.140	27.3	0.20
50	MTP50-51.5-e	1.5	0.220	18.7	0.20
	MTP50-52.2-e	2.2	0.220	27.3	0.20

Motor specification table

Classification		Output kW	Starting			Thermal class	Bearing *1	
Phase	Type		Torque %	Current A	Method		Load side (D.S)	Anti-load side (O.S)
3-phase	Totally enclosed fan-cooled outdoor type	0.75	381	20.8	Direct-on-Line	F	6205ZZC3	6203ZZC3
		1.5	312	49.3	Direct-on-Line	B	6306ZZC3E	6205ZZC3E
		2.2	400	81.4	Direct-on-Line	B	6306ZZC3E	6205ZZC3E

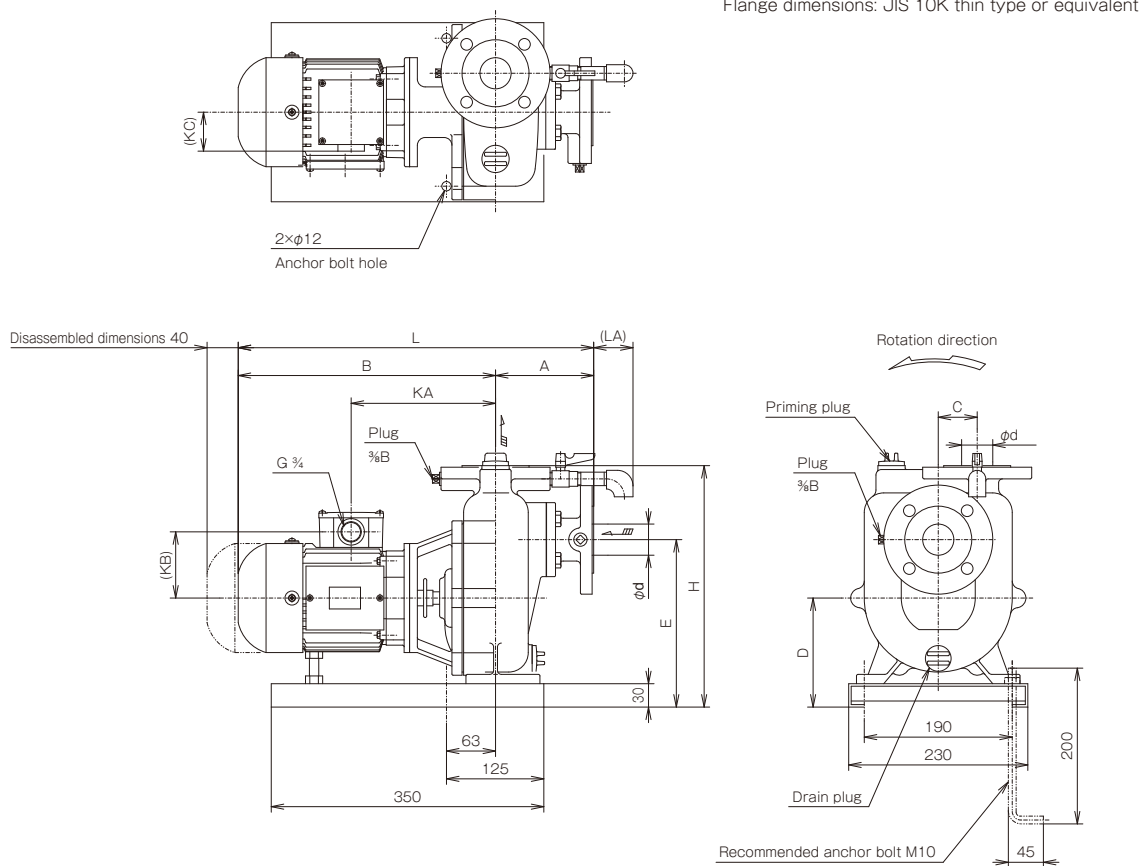
*1 Urea grease is used.

Component parts list

Type	Mechanical seal	O-ring (for casing)	O-ring (for priming and drain plug)	O-ring (for guide vane)
MTP32-5.75-e	H-20	K-170	P-22	G-75
MTP40-5.75-e	H-20	K-170	P-22	G-80
MTP40-51.5-e	H-20	K-209	P-22	G-80
MTP50-51.5-e	H-20	K-170	P-22	G-85
MTP50-52.2-e	H-20	K-209	P-22	G-85

■ Assembly drawing

● MTP32/40/50-e



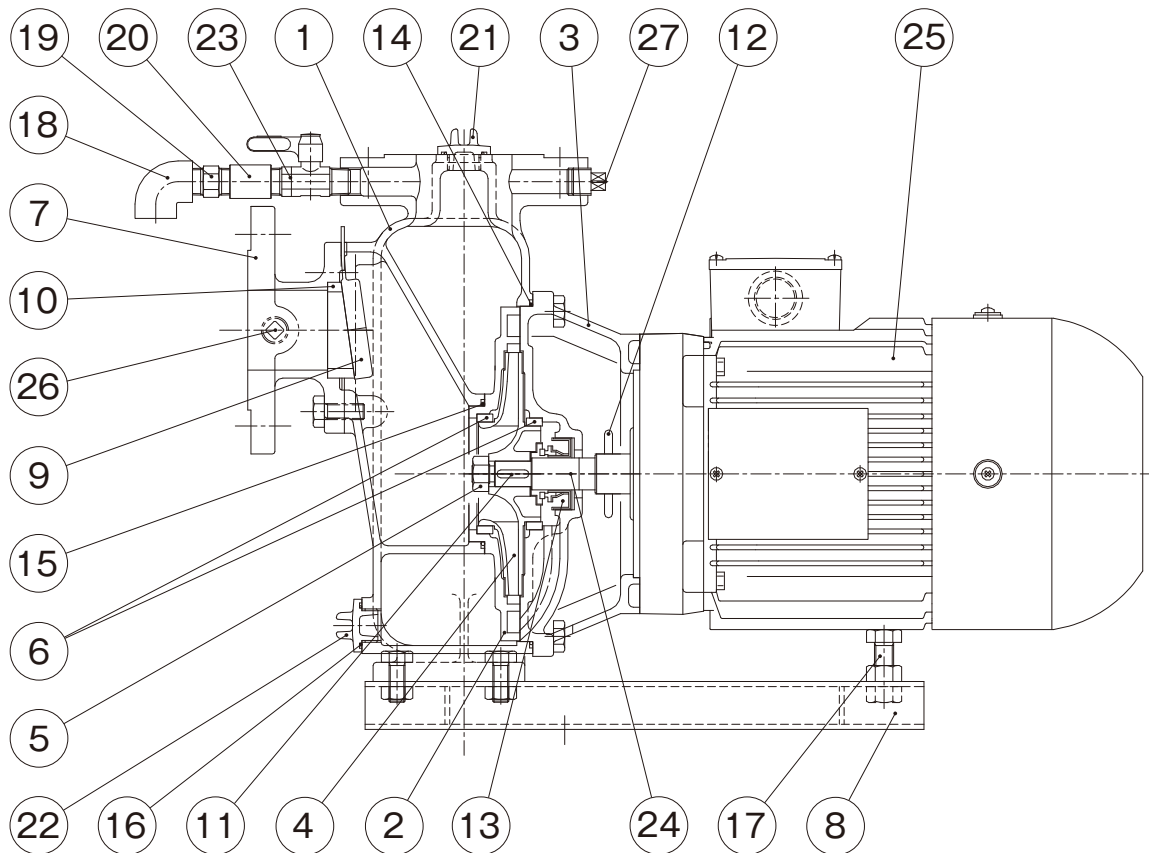
■ Dimensions

(Unit: mm)

Nominal diameter d	Type	Output kW	A	B	C	D	E	H	L	LA	KA	KB	KC	Approx. mass kg
32	MTP32-5.75-e	0.75	126	330	50	140	220	320	456	51	185	85	50	32
40	MTP40-5.75-e	0.75	126	330	50	140	215	310	456	51	185	85	50	33
	MTP40-51.5-e	1.5	131	382	50	160	245	345	513	48	251	125	62	44
50	MTP50-51.5-e	1.5	133	382	60	140	220	325	515	54	251	125	62	46
	MTP50-52.2-e	2.2	136	382	60	160	250	360	517	51	251	125	62	50

■ Example of sectional drawing

●MTP32-5.75-e ●MTP40-5.75-e



■ Parts list

No.	Part name	Qty	Material
1	Casing	1	FC200
2	Guide vane	1	FC200
3	Casing cover	1	FC200
4	Impeller	1	CAC406
5	Impeller nut	1	SUS304
6	Liner ring	2	CAC406
7	Inlet	1	FC200
8	Common base	1	SS400
9	Flap valve	1	NBR+SS400
10	Flap valve seat	1	CAC203
11	Key	1	SUS304
12	Deflector	1	CR
13	Mechanical seal	1	CERAMICS~CARBON
14	O-ring	1	NBR

No.	Part name	Qty	Material
15	O-ring	1	NBR
16	O-ring	2	NBR
17	Hexagon head bolt	1	SWCH
18	Elbow	1	FCMB
19	Hexagon nipple	1	FCMB
20	Threaded socket	1	SGP
21	Priming plug	1	C3771B
22	Drain plug	1	C3771B
23	Exhaust valve	1	C3771BD
24	Motor shaft	1	SUS304+S35C
25	Motor	1	---
26	Plug	1	SWCH
27	Plug	1	SWCH



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