Công ty TNHH TBKT An Quảng Hotline: 0901.120122 - 0901.171667 - 0905.468093 Địa chỉ: 438 Ông Ích Khiêm - Thanh Khê - Đà Nẵng Email: phucnt@anquang.com - kinhdoanh@anquang.com





## **Submersible Sewage Pumps with Channel Impeller**

Tsurumi B-series pumps are basic heavy-duty, submersible sewage and wastewater pumps providing excellent foreign matter passing capability with reliable operation. The B-series pumps have accumulated various track record and know-how in a wide range of industrial and water treatment applications for many years. Using a channel impeller, they are designed to minimize trouble due to clogged solids and fibrous matter in pumped fluids.

The B-series offers a wide lineup of discharge bores ranging from 50 - 300 mm and motor outputs of 0.4 - 75 kW, and comes in a variety of models including high head type and single-phase BP models that can handle high volume pumping demand. Particularly, the high head type pumps can satisfy the needs of the building equipment market that is oriented to saving energy and conserving water, and fit other high head market applications. Moreover, the pumps can be used with Tsurumi's guide rail fitting device that facilitates installation and maintenance (except for BP models).

Tsurumi pumps come packed with a number of original technologies we have developed and honed over years of research, including an anti-wicking cable, motor protector, dual inside mechanical seals with silicon carbide faces and Oil Lifter. Highly reliable and durable, Tsurumi pumps are designed and built for sound quality and prolonged continuous operation. The B-series pumps can help you keep your systems – whether for wastewater drainage, water treatment, flood control, irrigation and recreation facilities – running stably and greatly reduce your maintenance costs.

Additionally, the pumps can be specially configured with discharge bores of 400 mm and greater, or as an option, adapted for dry pit applications where they can be installed indoors and outside a tank, as well as for seawater or high temperature liquids, paving the way for their use at shipyards and power plants for water intake and discharge.

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## **Selection Table**

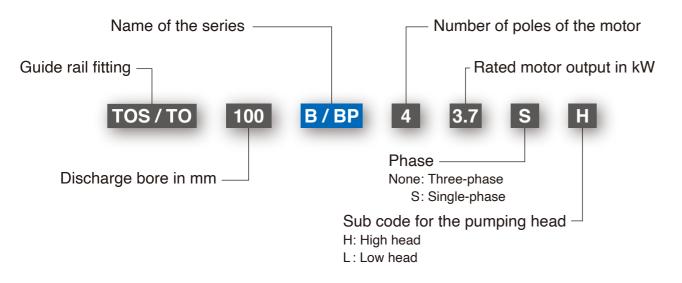
Motor	Output (kW)	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	37	75
2"	50mm	*	*											
3"	80mm	$\overleftrightarrow$							٠	٠	•	•		
4"	100mm								•	•	•	•		
6"	150mm													
8"	200mm													
10"	250mm													
12"	300mm													

 $\star$ : Single/Three-phase model can be selected in the same motor output.

 $\stackrel{\wedge}{\sim}$ : Single-phase model only.

•: High head type model only.

## Model Number Designation

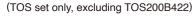


## Guide Rail Fitting System

The guide rail fitting system connects the pump to and from the piping easily just by lowering and hoisting the pump, allowing easy maintenance and inspection without the need to enter the sump. The TOS/TO is the guide rail fitting system made of cast iron and is compatible with cast iron pumps.

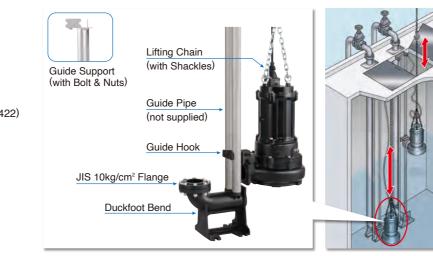
### **Accessories**

- · Duckfoot Bend
- Guide Support
- Guide Hook
- Lifting Chain 5m
- JIS 10kg/cm<sup>2</sup> Flange





Guide Rail Fitting Operation



## **Float Switches**

Tsurumi offers two types of float switches (liquid level sensors). A micro-switch is incorporated in both types.

Model MC-2 is a heavy-duty type float switch with a shock absorber. Having equipped with a high grade micro switch, the MC-2 assures trouble-free operation in the liquid containing much suspended solids and floating scum. Either of the two contacts, normally-open or normally-close, can be selected as required

Model RF-5 is an economy type float which can detect upper/lower limit water levels with single float. The snap on-off action ensures stable operation in clean or waste water containing suspended solids or oil and fat.

## Options

## Seawater-Resistant Version

In seawater, a material's resistance to corrosion can be seen clearly. When metals with different potentials are brought into contact in seawater, only the metal of lower potential corrodes. As the difference in potential increases, the metal of lower potential corrodes faster. As an option, Tsurumi can supply pumps with parts made of higher electric potential metal as the sacrificial anode.

## High Temperature Liquids Version

Tsurumi's submersible pumps are applicable to high temperature liquids of up to 80°C. Pumps of the standard specification can discharge liquids of up to 40°C. However, there are many fields that need to discharge higher temperature liquids, e.g., discharging industrial water from a power plant or ironworks, or discharging hot spring water from a mine in a volcanic zone.

## Special Material Version

Tsurumi can also provide you with pumps with essential components such as the impeller, pump casing and the suction cover made of non-standard materials. Select from stainless steel, high-chromium cast iron and bronze to suit your specific requirements.

## Dry Pit Version

The dry pit pumps can be installed indoors and outside of tanks, and still deliver the performance of conventional submersible pumps. Daily inspection and maintenance are easy, because the pump body is installed outside of tanks. These pumps have been developed with Tsurumi-original specifications, aiming for stable operation and reduction in maintenance labor.

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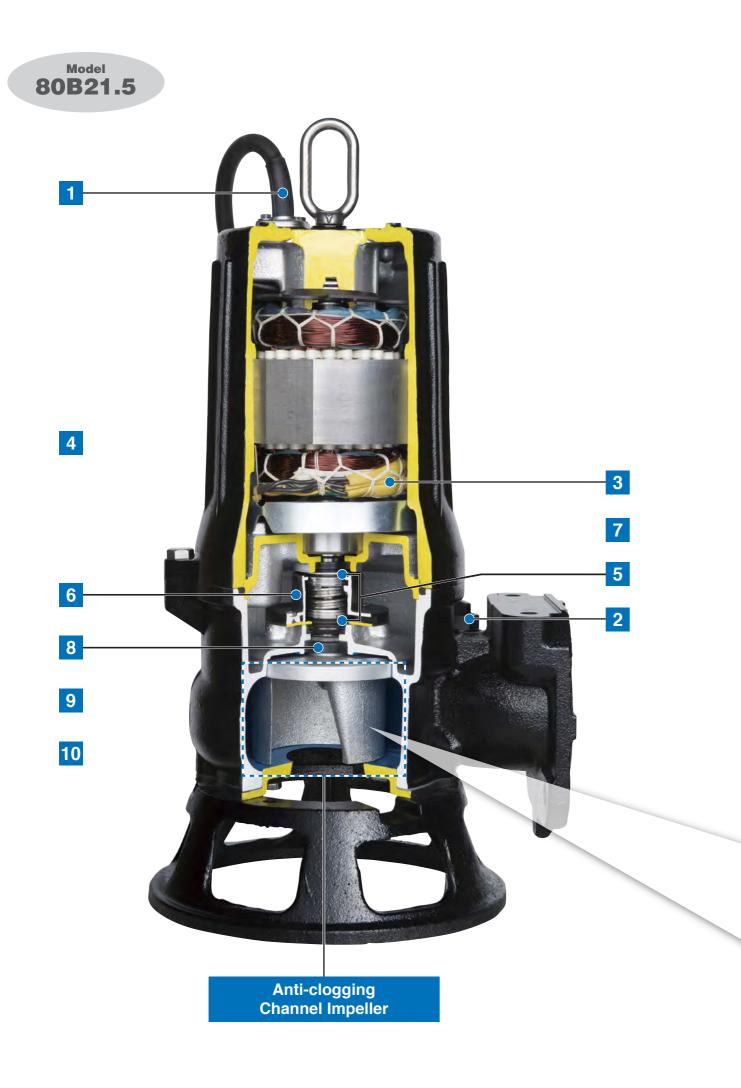












#### 1 Anti-wicking Cable Entry

Prevents water incursion due to capillary action should the cable sheath be damaged or the end of cable submerged. Also prevents moist air from infiltrating the motor housing and condensation from forming inside the housing due to temperature differences between the housing and outside air.

#### 2 Air Release Valve

Fitted on the water jacket or the pump casing to prevent the air lock. When air flows through the valve, the ball stays at the bottom, but when the pumped water starts to flow, the ball closes the outlet because of its buoyancy.

#### **3 Motor Protector**

Circle Thermal Protector (7.5kW and below) Directly cuts the motor circuit if excessive heat builds up or overcurrent occurs in the motor. Miniature Thermal Protectors (11kW and above) React to excessive heat caused by dry-running. The bimetal strip opens to cause the control panel to shut the power supply.

#### 4 Water Jacket (150B475 only)

The pump is equipped with a water jacket, around the motor frame. A portion of the pumped liquid is allowed to flow into the water jacket to cool the motor. This design feature permits the unit to operate at low water levels for extended periods of time.

#### 5 Dual Inside Mechanical Seals with Silicon Carbide Faces

Isolated in the oil chamber where a clean, non-corrosive and abrasion-free lubricating environment is maintained. Compared with the water-cooled outside mechanical seal, it reduces the risk of failure caused by dry-heating and adhering matter. The silicon carbide provides 5 times higher corrosion, wear and heat resistance than the tungsten carbide. Rubber parts of the upper and lower fixing rings are made of NBR or FPM (FKM), which provides higher resistance to heat and chemicals.

#### 6 Oil Lifter

Provides lubrication and cooling of the seal faces down to 1/3 of normal oil level, thus maintaining a stable shaft sealing effect and prolonging seal life longer. The Oil Lifter is Tsurumi original design.

#### 7 Leakage Sensor (18.5kW and above, excluding 150B422 and 200B422)

Detects flooding into the oil chamber that may occur in a worst case scenario. When flooding is detected, signals are sent to operate the indicator lamps through the external control panel.

#### 8 Single/Triple Oil Seals \*excluding some models Labyrinth Ring (150B475 only)

Used as a "Dust Seal", single or triple oil seals protect the mechanical seal from abrasive particles. The labyrinth ring is equipped to provide a better countermeasure against wear caused by high pressure generated in the casing and improve the maintainability.

#### 9 Seal Pressure Relief Port (11kW and above of 80 & 100mm bore, 22kW and above of 150mm bore, and 200B422) Protects the mechanical seal from pump pressure. It also protects the seal face by discharging wear particles.

10 Mouth Ring & Wear Ring (150B437 and 150B475 only)

Prevent wear in the pump casing and suction cover, resulting in reduced maintenance costs.

#### – Pumps solids like liquids – Anti-clogging Channel Impeller

The impeller employed by B-series pumps is itself configured like a channel to make it less likely for solids and fibrous matter to clog inside the pumps. Depending on the pumping capacity, the pump is outfitted with a semi-open or shrouded impeller, and either 1 or 2 vanes. Equipping your pump with the right impeller minimizes trouble caused by clogged solids.





Semi-open Single-channel

Semi-open. Two-channel

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Semi-open Two-channel (High Head)



Shrouded Two-channel

# **B** – Channel Impeller –

The B-series is a basic heavy-duty, submersible sewage and wastewater pumps providing excellent foreign matter passing capability with reliable operation. They offer a wide lineup of discharge bores ranging from 50 - 300 mm and motor outputs of 0.4 - 75 kW, and come in a variety of models including high head type and single-phase BP models that can handle high volume pumping demand. The B-series pumps have accumulated various track record and know-how in a wide range of industrial and water treatment applications for many years.









80BP2.75S

100B43.7

150B437

TOS100B47.5

Discharge Bore	Мо	odel	Motor Output	Phase	Starting Method		W x H 50/60Hz m	, , ,	nt* 50/60Hz g	Cable Length
mm	Free Standing	Guide Rail Fitting	kW			Free Standing	Guide Rail Fitting	Free Standing	Guide Rail Fitting	m
	50B2.4S	TOS50B2.4S	0.4	Single	Capacitor Start	340 x 220 x 453	556 x 220 x 511	25	24	5
	50B2.4	TOS50B2.4	0.4	Three	D.O.L.	340 x 220 x 420	556 x 220 x 478	23	22	6
50	50B2.75S	TOS50B2.75S	0.75	Single	Capacitor Start	405 x 250 x 523	621 x 250 x 567	32	30	5
	50B2.75H	50B2.75H TOS50B2.75H		Three	D.O.L.	405 x 250 x 415	621 x 250 x 458	24	23	6
	50B2.75	TOS50B2.75	0.75	Three	D.O.L.	405 x 250 x 439	621 x 250 x 479	25	24	6
	80BP2.4S (50Hz)		0.4	Single	Capacitor Run	296 x 195 x 363		12.7		5
80	80BP2.75S (60Hz)		0.75	Single	Capacitor Run	296 x 195 x 383		14.5		5
	80B21.5	TOS80B21.5	1.5	Three	D.O.L.	446 x 250 x 536	668 x 250 x 586	36	34	6
	80B411	TOS80B411	11	Three	Star-Delta	753 x 466 x 1057	926 x 466 x 1021	270/265	265/260	8
80	80B415	TOS80B415	15	Three	Star-Delta	791 x 540 x 1057/ 753 x 466 x 1057	942 x 493 x 1021/ 926 x 466 x 1021	290/265	275/265	8
-High Head-	80B418.5	TOS80B418.5	18.5	Three	Star-Delta	791 x 540 x 1222/ 753 x 466 x 1222	942 x 493 x 1186/ 926 x 466 x 1186	380/360	365/355	8
	80B422	TOS80B422	22	Three	Star-Delta	791 x 540 x 1222	942 x 493 x 1186	385/375	365/360	8

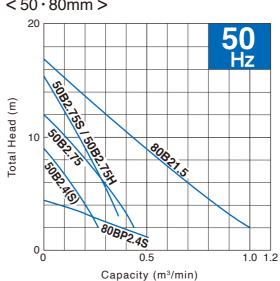
\* All weights excluding cable

Weights of guide rail fitting excluding duckfoot bend

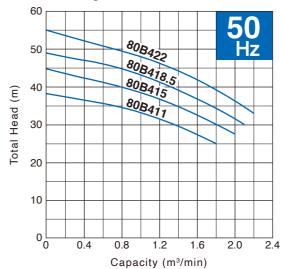
## Discharge Bore: 50 · 80mm

### **Performance Curves**

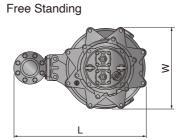
< 50 · 80mm >

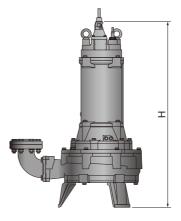


< 80mm -High Head- >

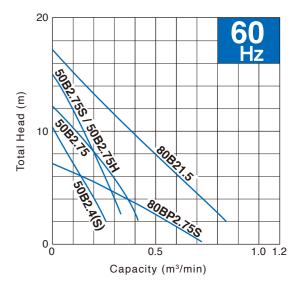


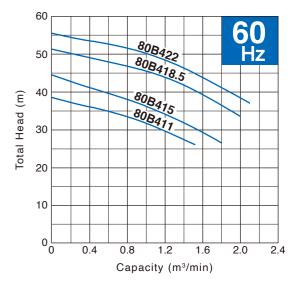
## **Dimensions**



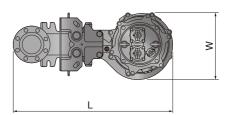


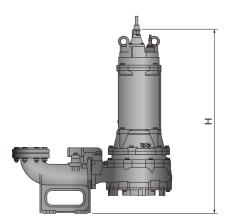
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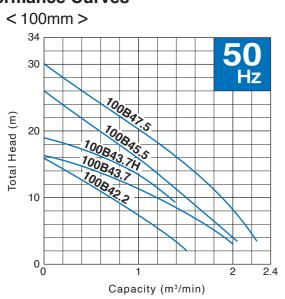


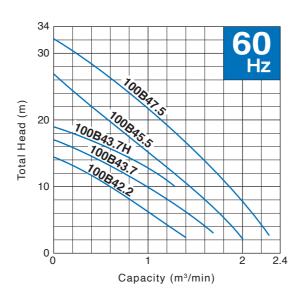
Guide Rail Fitting



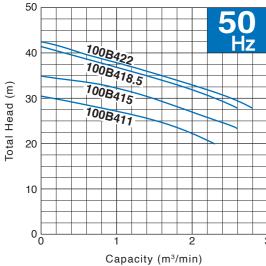


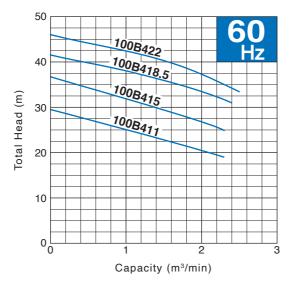
## **Performance Curves**











Discharge Bore	Mc	del	Motor Output	Phase	Starting Method	Dimensions L x m	Dry Weigł k	Cable Length		
mm	Free Standing	Guide Rail Fitting	kW			Free Standing	Guide Rail Fitting	Free Standing	Guide Rail Fitting	m
	100B42.2	TOS100B42.2	2.2		D.O.L.	596 x 324 x 642	754 x 324 x 656	68	64	6
	100B43.7	TOS100B43.7	3.7		D.O.L.*1	601 x 332 x 716	759 x 332 x 725	84	80	6
100	100B43.7H	TOS100B43.7H	3.7	Three	D.O.L.*1	602 x 344 x 692	760 x 344 x 706	82	78	6
	100B45.5	TOS100B45.5	5.5		D.O.L.*1	686 x 410 x 908	905 x 384 x 906	140	133	8
	100B47.5	TOS100B47.5	7.5		D.O.L.*1	686 x 410 x 929	905 x 384 x 927	154	147	8
	100B411	TOS100B411	11		Star-Delta	775 x 490 x 1114/ 691 x 410 x 1056	994 x 465 x 1091/ 910 x 382 x 1049	280/230	270/220	8
100	100B415	TOS100B415	15		Star-Delta	775 x 490 x 1114/ 691 x 410 x 1056	994 x 465 x 1091/ 910 x 382 x 1049	280/230	270/220	8
-High Head-	100B418.5	TOS100B418.5	18.5		Star-Delta	775 x 490 x 1279	994 x 465 x 1256	370	365/355	8
	100B422	TOS100B422	22		Star-Delta	775 x 490 x 1279	994 x 465 x 1256	370	365/355	8

\*1 Star-Delta available upon request

\*2 Refer to page 8 for dimension symbol positions.

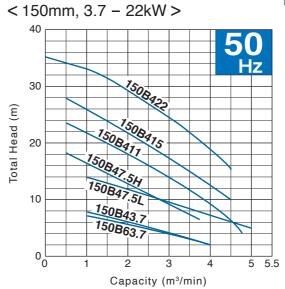
\*3 All weights excluding cable

Weights of guide rail fitting excluding duckfoot bend

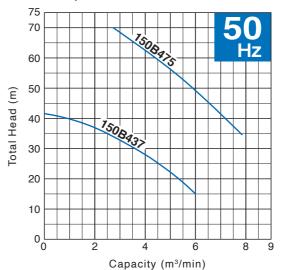


**Performance Curves** 





<150mm, 37 · 75kW >



Discharge Bore	Mc	odel	Motor Output	Phase	Starting Method	Dimensions m	L x W x H <sup>*2</sup> m	Dry W k	Cable Length	
mm	Free Standing	g Guide Rail Fitting				Free Standing	Guide Rail Fitting	Free Standing	Guide Rail Fitting	m
	150B43.7	TOS150B43.7	3.7	Three	D.O.L.	871 x 486 x 875	1065 x 459 x 820	145	120	6
	150B63.7	TOS150B63.7	3.7		D.O.L.*1	838 x 424 x 903	1023 x 395 x 926	188	158	6
	150B47.5H	TOS150B47.5H	7.5		D.O.L.*1	834 x 418 x 951	1028 x 404 x 976	205	175	8
	150B47.5L	TOS150B47.5L	7.5		D.O.L.*1	871 x 486 x 1085	1065 x 459 x 1030	200	175	8
150	150B411	TOS150B411	11		Star-Delta	895 x 490 x 1097	1089 x 464 x 1052	245	215	8
	150B415	TOS150B415	15		Star-Delta	895 x 490 x 1167	1089 x 464 x 1122	266	236	8
	150B422	TOS150B422	22		Star-Delta	898 x 492 x 1222	1092 x 470 x 1181	327	298	10
	150B437	TO150B437	37		Star-Delta	1085 x 724 x 1548	1306 x 610 x 1380	640	540	10
	150B475	TO150B475	75		Star-Delta	1305 x 775 x 1896	1517 x 765 x 1786	1180	1140	10

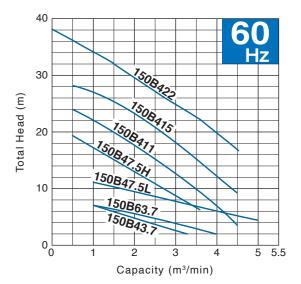
\*1 Star-Delta available upon request

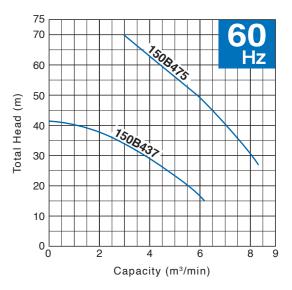
\*2 Refer to page 8 for dimension symbol positions.

\*3 All weights excluding cable

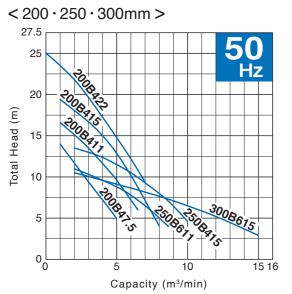
Weights of guide rail fitting excluding duckfoot bend

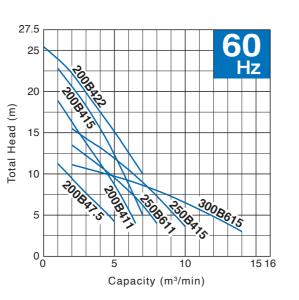
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### **Performance Curves**





Discharge Bore	Mc	Motor Output	Phase	Starting Method		L x W x H <sup>*2</sup> m	Dry W k	Cable Length		
mm	Free Guide Rail Standing Fitting		kW			Free Standing	Guide Rail Fitting	Free Standing	Guide Rail Fitting	m
	200B47.5	TO200B47.5	7.5		D.O.L.*1	926 x 486 x 1085	1266 x 459 x 1050	207	212	8
200	200B411	TO200B411	11		Star-Delta	926 x 486 x 1131	1266 x 459 x 1096	253	258	8
200	200B415	TO200B415	15		Star-Delta	971 x 526 x 1196	1234 x 433 x 1161	291	276	8
	200B422	TOS200B422	22	Three	Star-Delta	953 x 492 x 1222	1117 x 470 x 1181	323	289	10
250	250B611	TO250B611	11		Star-Delta	1203 x 621 x 1211	1513 x 574 x 1165	430	390	8
230	250B415	TO250B415	15		Star-Delta	1146 x 558 x 1228	1451 x 497 x 1194	411	371	8
300	300B615 TO300B615		15		Star-Delta	1302 x 656 x 1314	1666 x 652 x 1274	550	520	8

\*1 Star-Delta available upon request

\*2 Refer to page 8 for dimension symbol positions.

\*3 All weights excluding cable

Weights of guide rail fitting excluding duckfoot bend

# Submersible pumps with wide solids passages of over 3 inches BZ-series (80 – 350 mm)

The BZ-series pumps are heavy-duty, submersible sewage and wastewater pumps that are designed with a shrouded single/two-channel impeller and wide passages of over 3 inches (76.2 mm) in diameter to minimize trouble due to clogged solids. This series offers a wide lineup of discharge bores ranging from 80 - 350 mm and motor outputs of 1.5 - 75 kW. For details, refer to the BZ-series catalog [IA101].





## Extra-large discharge bores of 350 mm or greater B-series (350 – 800 mm)

As an option, the B-series pumps can be specially configured with discharge bores of 350 mm and greater, or adapted for dry pit, seawater, high temperature liquids and other special applications. Let Tsurumi know what you need.

## **Specifications**

						В						
		50B2.4S	50B2.4	50B2.75S	50B2.75H 50B2.75	80BP2.4S (50Hz)	80BP2.75S (60Hz)	80B21.5	80B411 80B415	80B418.5 80B422		
	Discharge Bore mm		Ę	50								
	Discharge Connection			Thre	aded Oval F	Flange Threaded JIS 10k						
		\$	Semi-open S	ingle-channe	1	Shrouded Two-channel Semi-oper Single-chan			Semi-open	Two-channe		
	Impeller		Axial Gap									
			Gray C	ast Iron			inforced Resin D-GF)	(	Gray Cast Iro	n		
д	Suction Cover	Ductile (	Cast Iron	Gray C	ast Iron	-	_	(	Gray Cast Iro	n		
PUMP	Mouth Ring & Wear Ring											
Δ.	Q'ty Oil Seal		Sir	igle			_		Single			
			Nitrile Butac	liene Rubber				Nitrile	Butadiene F	lubber		
	Labyrinth Ring					_						
	Casing				(	Gray Cast Iro	n					
	Shaft Seal			Du	al Inside Me	chanical Sea	s (with Oil Lif	ter)				
					S	Silicon Carbio	le					
	Туре			Conti	nuous-duty F	Rated, Dry-ty	pe Induction	Motor	1	1		
	Output kW	0.	.4	0.	75	0.4	0.75	1.5	11 15	18.5 22		
	Phase	Single Three Single Three				Sir	igle		Three			
	Pole				2					4		
	Speed (S.S.) 50/60Hz min <sup>-1</sup>		3000	/3600		3000/—	-/3600	3000/3600	1500	/1800		
	Insulation				=	1		F				
~	Starting Method	Capacitor Start	D.O.L.	Capacitor Start	D.O.L.	Cap R	acitor un	D.O.L. Star-Delta				
MOTOR	Motor Protector (built-in)				CTP				M	TP		
<b>O</b> W	Leakage Sensor (built-in)				_					Electrode		
	ml Lubricant	18	30	44	40	2	40	900	4700	5300		
			Turbine Oil	(ISO VG32)		Liquid Paraff	in (ISO VG32)	Turbi	ine Oil (ISO \	(G32)		
	Frame		Gray C	ast Iron		304 Stair	less Steel	(	Gray Cast Iro	n		
	Outor Cover					—		I				
	Shaft		420 Stair	less Steel		304 Stair	less Steel	42	0 Stainless S	teel		
	m Power Cable	5	6	5	6		5	6		8		
					PVC	1		1		Chloroprene Rubber		
Dry We		25	23	32	24 25	12.7	14.5	36	270/265 290/265	380/360 385/375		
50/60H	Iz Guide Rail Fitting kg	24	22	30	23 24			34	265/260 275/265	365/355 365/360		

\* All weights excluding cable

Weights of guide rail fitting excluding duckfoot bend

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## Specifications

					E	В									E	
		100B42.2	100B43.7	100B43.7H	100B45.5 100B47.5	100B411 150B415	100B418.5 100B422	150B43.7	150B63.7	150B47.5H	150B47.5L	150B411 150B415	150B422	150B437	150B475	
	Discharge Bore mm			1(	00	I	1	1	50		I	1	50		-	
	Discharge Connection			Т	Threaded JIS 1	0kg/cm² Flang	je		Thr	eaded JIS 10	0kg/cm² Flar	nge				
		Semi-open S	ingle-channel	Semi-open Two-channel	Shrouded Two-channel	Semi-open	Two-channel	Shrouded T	wo-channel	Shrouded Single-channel					Shrou	
	Impeller		Axial Gap		Radial Gap	Axia	l Gap	Radia	al Gap	Axial Gap Radial Gap Axial Gap Radial Gap					Radia	
					Gray C	ast Iron									Gray Ca	
4	Suction Cover				Gray C	ast Iron									Gray Ca	
PUMP	Mouth Ring & Wear Ring				_	_						_		Gray (	Cast Iron	
	Q'ty Oil Seal				Single							Single			Triple	
				Nitrile	e Butadiene Ru	ubber						Nitrile	Butadiene R	ubber		
	Labyrinth Ring				-	_						_			304 Stainless Steel	
	Casing				Gray C	ast Iron									Gray Ca	
	Shaft Seal			Dual Ins	side Mechanic		Dual Inside Mech					de Mechanica				
										Silicon (						
	Туре		1	Continuou	is-duty Rated,	Dry-type Indu	1					1	1	Continuous	-duty Rated, [	
	Output kW	2.2	3	3.7	5.5 7.5	11 15	18.5 22	3	.7	 7	.5	11 15	22	37 75		
	Phase								Thr							
	Pole	4												4		
	Speed (S.S.) min <sup>-1</sup>				1500/1800				1000/1200	 1500/1800					)	
	Insulation				F	1			В	F						
~	Starting Method	D.O.L.		D.O.L.*2		Star-	Delta	D.C	).L.*2	D.C	.L.*2		Star-	Delta		
MOTOR	Motor Protector (built-in)		С	TP		MTP C			TP	 CTP			М	TP		
MO	Leakage Sensor (built-in)				1	1	Electrode		_		_	1	1	Elec	ctrode	
	ml Lubricant		1350		4200 4800	4700	5300	1350	4200	4200	4800	5400 5700	4600	9500	9400	
					Turbine Oil	(ISO VG32)									Turbine Oil	
	Frame				Gray C	ast Iron									Gray Ca	
	Outor Cover				_					- Rolle					Rolled Steel	
	Shaft				420 Stain	less Steel							1		420 Stainl	
	m Power Cable		6			8			6		8			10		
			PVC	1		lloroprene Rub	ber	PVC	Chloroprene Rubber						Chloroprer	
Dry We	Free Standing kg	68	84	82	140 154	280/230	370	145	188	205	200	245 266	327	640	1180	
30/00H	Z Guide Rail Fitting kg	64	80	78 *² Star-Delta ava	133 147	270/220	365/355	120	158	175	175	215 236	298	540	1140	

\*1 All weights excluding cable Weights of guide rail fitting excluding duckfoot bend

### Công ty TNHH TBKT An Quảng Hotline: 0901.120122 - 0901.171667 - 0905.468093 Địa chỉ: 438 Ông Ích Khiêm - Thanh Khê - Đà Nẵng Email: phucnt@anguang.com - kinhdoanh@anguang.com

E	3													
	200B47.5 200B411	200B415	200B422	250B611	250B415	300B615								
		200		250 300										
		JIS 10kg/c	rm² Flange											
u	ded Two-ch	annel												
a	l Gap		Axial Gap	Radial Gap	Axial Gap	Radial Gap								
2	ast Iron													
2	ast Iron													
	Single	Single Single												
			Rubber											
2	ast Iron													
		Oil Lifter)												
	al Seals (with Oil Lifter)													
	Carbide Dry-type Induction Motor													
1	7.5	15	22	11	1	5								
	11 ree	10												
				6	4	6								
				1000/1200	1500/1800	1000/1200								
				В	F	В								
	D.O.L.*2			Star-Delta										
	Star-Delta			MTP										
	MTP			_										
	4800 6500	5500	4600	6000	5500	6000								
	(ISO VG32)													
2	ast Iron													
			_											
ו	less Steel													
]	8	3	10		8									
1	ne Rubber			. <u></u>										
	207 253	291	323	430	411	550								
	212 258	276	289	390	371	520								



Product images and specifications may differ from actual products due to improvements. The OO series and model OO are indicated with our series/model codes in this catalog.

TSURUMI MANUFACTURING CO., LTD.

Your Dealer

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