

# BZ

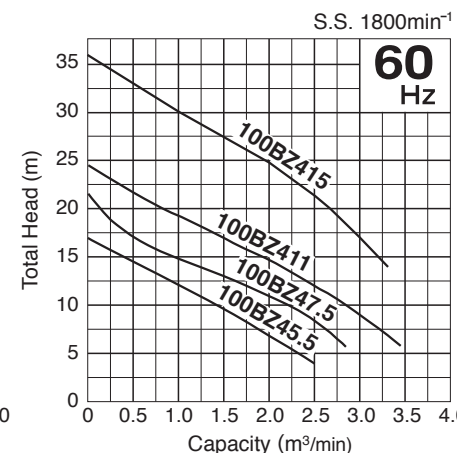
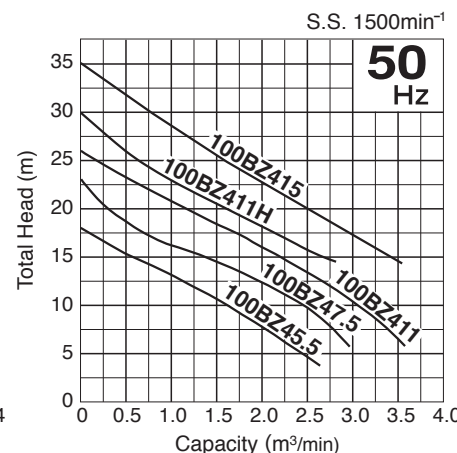
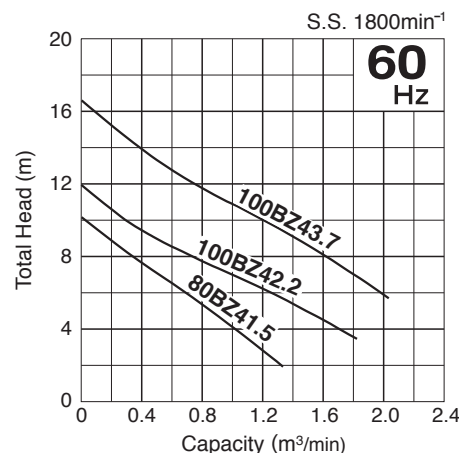
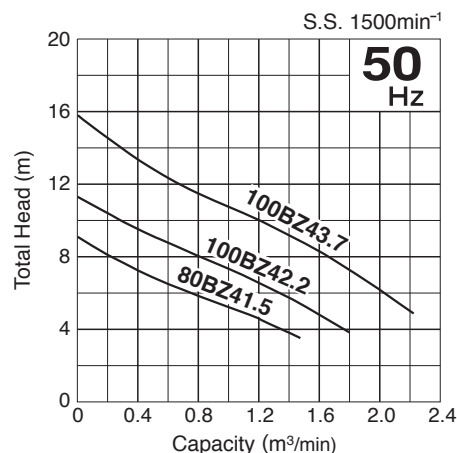
The BZ-series has a proprietary single-channel, solid handling impeller that allows the pump to handle solid matters with up to 80mm in diameter. The pump can efficiently transfer sewage and wastewater containing solid matters.



Free Standing

Guide Rail Fitting

### Performance Curves



### Major Standard Specifications

Discharge Bore		mm	80	100
Pumping Fluid	Type of Fluid	Wastewater, and Liquid carrying Waste and Solid Matters		
	Fluid Temperature	0 to 40°C		
Pump	Structure	Impeller	Channel Impeller	
		Shaft Seal	Double Mechanical Seal with Oil Lifter	
		Bearing	Double-shielded Ball Bearing	
	Materials	Impeller	Gray Iron Casting	
		Shaft Seal	SiC	
Motor	Type, Pole	Dry Type Submersible Induction Motor 4-pole		
	Class of Insulation	Class F		
	Phase	Three-phase		
	Starting Method	Direct on Line (7.5kW and below) Star-delta (11kW and above)		
	Protection Device (built-in)	Miniature Thermal Protector		
	Lubricant	Turbine Oil (ISO VG32)		
	Materials	Frame	Gray Iron Casting	
		Shaft	420 Stainless Steel	
Cable	PVC (3.7kW and below) Chloroprene Rubber (5.5kW and above)			
Discharge Connection		JIS 10K Flange		

### Applications

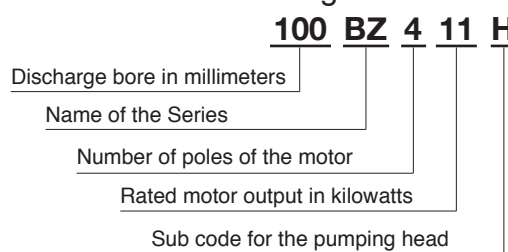
- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc

### Standard Specifications

Discharge Bore mm	Model			Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min <sup>-1</sup>	Impeller Passage 50Hz/60Hz mm	Dry Weight * kgs		Cable				Length m	Material	
	Free Standing	Guide Rail Fitting						Free Standing	Guide Rail Fitting	No. of Cables	200 ~ 240 V		380 ~ 575 V			
TOS		TS	Cores x mm <sup>2</sup>	Outer Dia. mm	Cores x mm <sup>2</sup>	Outer Dia. mm										
80	80BZ41.5	TOS80BZ41.5	TS80BZ41.5	1.5	D.O.L	1500/1800	80	78	74	2	4 x 1.25	11.1	4 x 1.25	11.1	10	PVC
100	100BZ42.2	TOS100BZ42.2	TS100BZ42.2	2.2	D.O.L	1500/1800	80	78	74	2	4 x 2.0	11.8	4 x 2.0	11.8	10	PVC
100	100BZ43.7	TOS100BZ43.7	TS100BZ43.7	3.7	D.O.L	1500/1800	80	98	94	2	4 x 1.25	11.1	4 x 1.25	11.1	10	PVC
100	100BZ45.5	TOS100BZ45.5	TS100BZ45.5	5.5	D.O.L	1500/1800	80	149	144	2	4 x 3.5	13.9	4 x 2.0	11.8	10	PVC
100	100BZ47.5	TOS100BZ47.5	TS100BZ47.5	7.5	D.O.L	1500/1800	80	165	160	2	4 x 3.5	13.9	4 x 2.0	11.8	10	Chloroprene Rubber
100	100BZ411	TOS100BZ411	TS100BZ411	11	Star-Delta	1500/1800	80	222	217	3	2 x 1.25	9.8	2 x 1.25	9.8	10	Chloroprene Rubber
100	100BZ411H	TOS100BZ411H	TS100BZ411H	11	Star-Delta	1500/—	80	222	217	3	4 x 3.5	14.1	4 x 3.5	14.1	10	Chloroprene Rubber
100	100BZ415	TOS100BZ415	—	15	Star-Delta	1500/1800	80	295	290	3	3 x 3.5	12.9	3 x 3.5	12.9	10	Chloroprene Rubber
											2 x 1.25	9.8	2 x 1.25	9.8	10	Chloroprene Rubber

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

### Model Number Designation



### Standard Accessories

#### Free Standing

- Discharge Bend (with Packing & Bolts)
- JIS 10kg/cm<sup>2</sup> Flange (with Packing, Bolts & Nuts)

#### Guide Rail Fitting - TOS

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)
- JIS 10kg/cm<sup>2</sup> Flange (with Packing, Bolts & Nuts)
- Foundation Bolts (with Nuts)

#### Guide Rail Fitting - TS

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)