

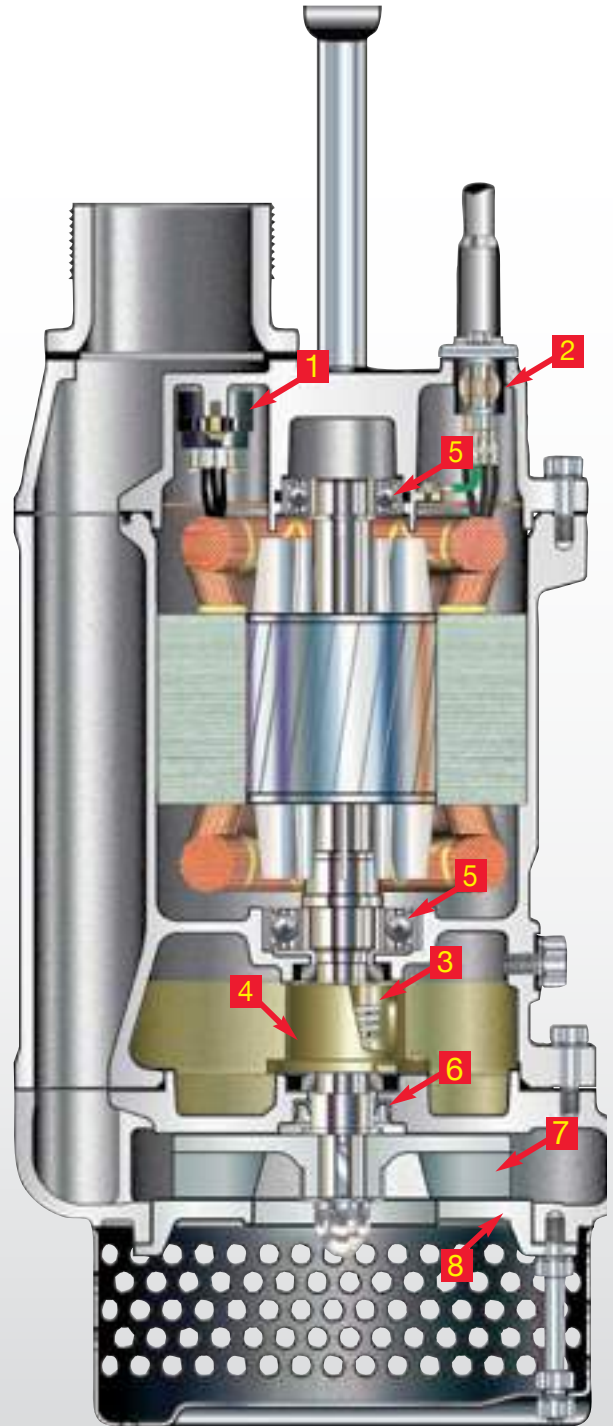


 **TSURUMI PUMP**™
BUILT FOR WORK®
THREE PHASE DEWATERING PUMPS



Rugged Tsurumi pumps are loaded top to bottom with features to withstand your toughest dewatering applications.

- 1 Motor Protector:**
Protects against overheating and run-dry.
- 2 Anti-Wicking Block:**
Prevents water incursion due to capillary wicking should the power cable be damaged or the end submerged.
- 3 Double Inside Mechanical Seal with Silicon Carbide Faces:**
Provides the longest operational life of any available seal.
- 4 Oil Lifter:**
Lubrication of the seal faces down to 1/3 of normal oil level and greatly extends the seal life - uses no additional power.
- 5 Ball Bearings:**
Permanently lubricated, double-shielded, single row deep groove, high temperature C3 Ball bearings, Rated B-10 = 60,000 Hours.
- 6 Lip Seal Protector:**
Protects mechanical seal from abrasive particles.
- 7 High Chrome Iron / Ductile Iron Impeller:**
Resists wear by abrasive particles.
- 8 Field Adjustable / Replaceable Suction Cover:**
Resists wear by abrasive particles, and is easily adjusted to maintain pump performance.



The cutaway view above is a KTZ series pump. This pump illustrates the common design features used in Tsurumi dewatering pumps. Other series may differ in shape and structure.

Three Phase Dewatering Pump Lineup

KTZ(E) Series



High head and high volume dewatering. Semi-open High Chrome Impeller.

Easy conversion between high head and high volume models in each motor size.

KTZE pumps with built-in electrode for automatic operation without a control panel.

Discharge Sizes:
2, 3, 4 and 6 inch
HP: 2, 3, 5, 7.5, 10, & 15

LH Series



Medium to high volume at high heads.

Closed High Chrome Impeller.

Easy conversion between high head and high volume models in each motor size.

Discharge Sizes:
4, 6, and 8 inch
HP: 4, 20, 30, 35, 40, 50, 60, 75, 100, 120, & 150

LHW Series



Extra high head pumping.

Dual staged, Closed High Chrome Impeller.

Pressure relief ports protect mechanical seal from excessive pressure and water hammer.

Discharge Sizes:
2, 3, and 4 inch
HP: 4, 7.5, 15, 30, 40 & 150

KTV(E) Series



Portable job-site dewatering.

Semi-vortex Urethane Rubber or Ductile Iron Impeller.

KTVE pumps with built-in electrode for automatic operation without a control panel.

Discharge Sizes:
2 and 3 inch
HP: 1, 2, 3, 5, & 7.5

KRS Series



High volume dewatering.

Semi-open Ductile Iron and High Chrome Impeller.

1800RPM and 1200 RPM motors reduce impeller wear.

Discharge Sizes
3, 4, 6, 8, 10, 12, and 14 inch
HP: 3, 5, 7.5, 10, 15, 20, 25, 30, 40, & 50

GSZ Series



High volume dewatering pumping.

Closed High Chrome and Stainless Steel Impeller.

1800 RPM and 1200 RPM motors reduce impeller wear.

Discharge Size:
6, 8, and 10 inch
HP: 30, 50, 60, 75, 100 & 200

Agitator Pumps



Heavy duty slurry pumping.

Abrasive resistant.

Single phase and three phase solutions.

Discharge Size:
2 - 10 inch
HP: 1/2 - 100

SFQ Series



Corrosive liquid dewatering.

Semi-open Stainless Steel Impeller.

All parts in contact with the liquid are 316 Stainless Steel.

All elastomers are Viton.

Discharge Size:
2, 3 and 4 inch
HP: 1, 2, 5, 7.5, 10 & 15

SQ Series



Portable corrosive liquid dewatering.

Semi-open Stainless Steel Impeller.

All parts in contact with the liquid are 304 Stainless Steel.

Discharge Size:
2 inch
HP: 1/2 & 1

LB / LBT Series



For well dewatering:
Fits n 8" casing.

Semi-Vortex Impeller.

Allows for jobsite dewatering utilizing smaller generators and smaller well casings.

Discharge Size:
2 and 3 inch
HP: 1/2, 1 & 2

KRS SERIES | High volume, extra durable pump available in a variety of sizes



KRS2-A3



KRS822

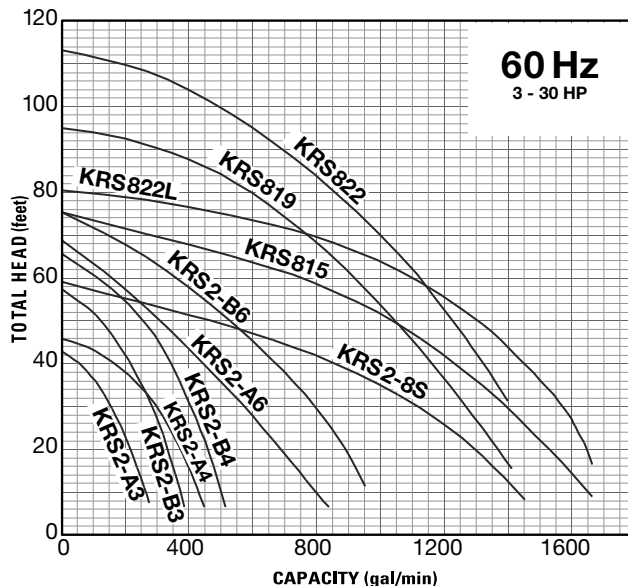
Material

Impeller:	Ductile or High Chrome
Casing:	Cast Iron
Mechanical Seal:	Silicon Carbide
Motor Frame:	Cast Iron
Shaft:	420 Stainless Steel
Fasteners:	304 Stainless Steel
Cable:	Chloroprene Sheath

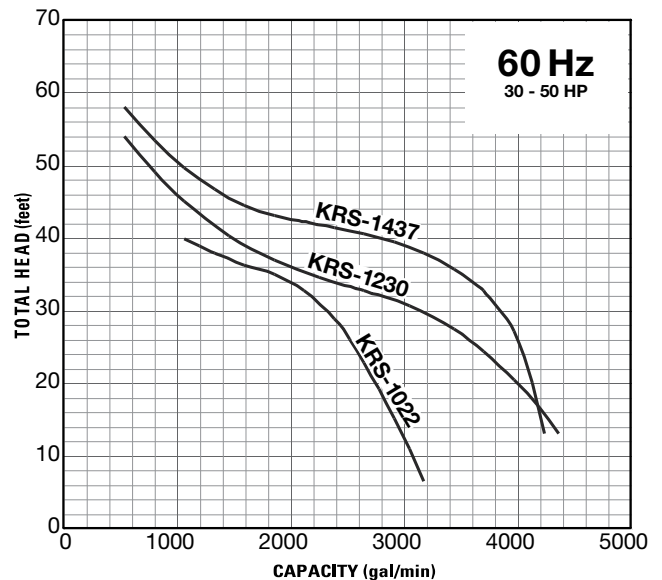
Features

- High Volume Pumping
- 4 Pole, 1800 RPM Motors
- 6 Pole, 1200 RPM Motors
- Lower Impeller Tip Speeds for Longer Life
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Oil Lifter
- Internal Thermal Motor Protection

Group Performance: 3 - 30HP



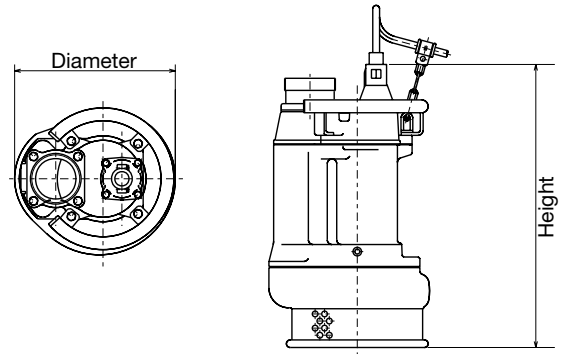
Group Performance: 30 - 50HP



KRS series offers longer wear life on parts due to the slower impeller tip speed provided by 4-pole, 1800 RPM / 6-pole, 1200 RPM motors. Reducing impeller speed by half will extend your parts wear life by at least 2 to 3 times.

The iron construction of KRS series extends the life of the pump. To prevent premature wear and failure from abrasive materials, Tsurumi's dual inside mechanical seals are completely isolated in an oil chamber with an extra lip seal to protect mechanical seals from the abrasives.

KRS series exemplifies Tsurumi's design for multi-purpose pumps to fit a wide variety of applications due to their simple construction, superb durability and high efficiency.



MODEL	MOTOR SPECIFICATIONS					Discharge Size (inch)	DIMENSION		Max. Solids Dia. (inch)	Continuous Running Water Level (in.)	Pump Weight (lbs.)	
	Output (HP)	Rated Current (A)			RPM		Diameter	Height				
		208V	230V	460V	575V							
KRS2-A3	3	9.4	8.6	4.3	3.4	1700	3	13 3/8	23 5/8	0.472	5 3/4	159
KRS2-B3	5	15.0	13.8	6.9	5.5	1690	3	13 3/4	26 15/16	0.472	6 1/8	196
KRS2-A4	5	15.0	13.8	6.9	5.5	1690	4	13 3/4	26 15/16	0.472	6 1/8	194
KRS2-B4	7.5	21.4	19.6	9.8	7.6	1720	4	13 3/4	26 9/16	0.472	6 1/8	209
KRS2-A6	10	29	26	13	10.5	1730	6	16 5/16	27 13/16	0.787	6 7/8	286
KRS2-B6	15	42	39	19.5	14.5	1735	6	16 5/16	29 5/8	0.787	6 7/8	330
KRS2-8S	15	42	39	19.5	14.5	1735	8	18 9/16	33 3/8	1.18	11 3/4	383
KRS815	20	57.9	55.7	27.9	22.2	1735	8	18 15/16	38 9/16	0.984	10 7/8	530
KRS819	25	—	—	33.0	26.4	1750	8	22 11/16	47 1/4	0.984	13 5/8	790
KRS822	30	—	—	38.5	30.8	1745	8	22 11/16	47 1/4	0.984	13 5/8	840
KRS822L	30	—	—	38.5	30.8	1745	8	22 11/16	47 1/4	0.984	13 5/8	840
KRS1022	30	—	—	39.6	31.5	1730	10	20 5/8	49 1/8	0.984	17 3/4	860
KRS1230	40	—	—	53.0	43.0	1165	12	26 3/8	55 1/4	1.97	18 7/8	1540
KRS1437	50	—	—	65.0	52.0	1165	14	26 3/8	55 1/4	1.97	18 7/8	1650

AGITATOR PUMPS | HS • HSD • NK • KTD • KTV • KRS • GPN • GSD



Specifications

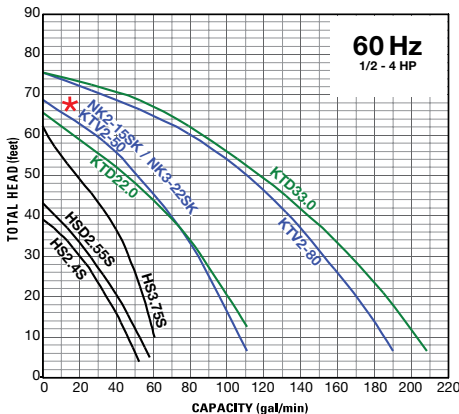
Type of Fluid: Sludge, muddy water, sandy mud

Applications

- Grit chambers, mine processing plants where light to medium abrasive solids need to stay suspended for pumping in wastewater
- Heavy abrasive construction site dewatering
- Aggregate wash down
- Ragoon / sludge pond cleanout



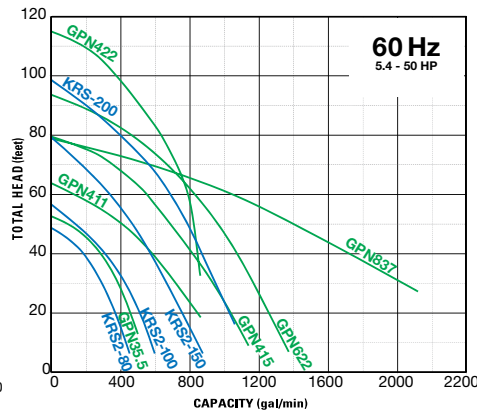
Group Performance
HS, HSD, NK, KTD and KTV



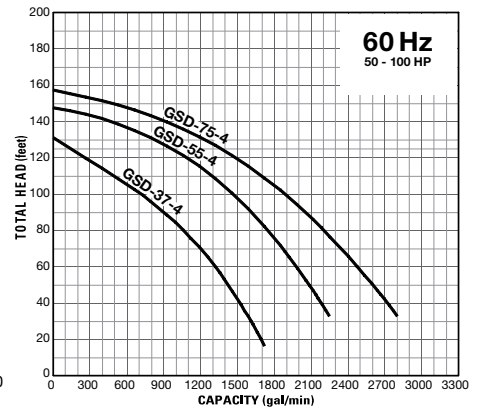
	Standard	High Torque
Single Phase	NK2-15SK 2HP (1.5kW)	NK3-22SK 3HP (2.2kW)
Three Phase	—	KTV2-50 2.7HP (2.0kW)

High Torque models further suitable for heavy duty application.

Group Performance
KRS and GPN



Group Performance
GSD





Tsurumi Agitator Pumps are designed for sludge slurry pumping with hard iron adjustable wear parts. Up to 10" discharge size / 100HP with 4 pole / 6 pole motors for slower impeller tip speed which prolongs pump life.

Additional options which may help extend the life of the wear parts in tough applications are available. (Consult factory for recommendations)

Additional optional special coating available.

KRS Series convert from regular hydraulic configuration to agitator versions with stock parts for more flexibility.

GPN Series / GSD Series only: Bottom side discharge

■ Agitator

Tsurumi's slurry pumps have an agitator made of abrasion resistant material. It is mounted on the shaft and rotates to create a downward current. This agitator assists the pump in suspending and transferring solids such as bentonite slurry, slime, mud, and water with high sand content.



MODEL	MOTOR SPECIFICATIONS								Discharge Size (inch)	DIMENSION		Max. Solids Dia. (inch)	Continuous Running Water Level (in.)	Pump Weight (lbs.)	
	Motor Output (HP)	Phase	Rated Current (A)							RPM	Diameter (in.)				Height (in.)
			Single phase		Three phase										
			115V	230V	208V	230V	460V	575V							
HS2.4S	1/2	Single	5.2	2.7	—	—	—	—	3320	2	10 1/16	12 15/16	0.276	3 1/2	25
HS3.75S	1	Single	9.7	4.9	—	—	—	—	3411	3	12 7/16	15 5/16	0.276	3 1/2	43
HSD2.55S	3/4	Single	7.3	3.7	—	—	—	—	3390	2	10 3/8	15 3/8	0.394	4 1/8	34
NK2-15SK	2	Single	23.0*	11.5*	—	—	—	—	3440	3	9 13/16	26	0.334	4 3/4	71
NK3-22SK	3	Single	—	13*	—	—	—	—	3465	3	9 13/16	26	0.334	4 3/4	71
KTV2-50	2.7	Three	—	—	7	6.4	3.2	2.6	3440	2	9 13/16	17 7/8	0.334	4 3/4	55
KTV2-80	4	Three	—	—	11.6	10.6	5.3	4.2	3450	3	11 5/8	21 5/8	0.334	5 1/8	84
KTD22.0	2.7	Three	—	—	8.7*	8.2	4.1	3.3	3410	2	9 1/4	23 3/16	0.394	5 1/2	86
KTD33.0	4	Three	—	—	12*	11.4	5.9	4.5	3410	3	11 11/16	25 3/4	0.394	6 1/4	145
KRS2-80	5.4	Three	—	—	18*	16.5	8.5	6.6	1720	3	13 3/4	30 11/16	1.18	9 7/8	231
KRS2-100	8	Three	—	—	25*	23	11.5	9.2	1730	4	16 3/8	30 7/8	1.18	10 5/8	315
KRS2-150	12	Three	—	—	36*	33	16.5	13.2	1735	6	16 3/8	33	1.18	10 5/8	357
KRS-200	24	Three	—	—	—	—	30	24	1750	8	22 11/16	44 7/8	1.18	11 1/4	840
GPN35.5	7.5	Three	—	—	21.4	20*	9.8	7.6	1720	3	3/16	31 5/16	1.18	11 3/8	319
GPN411	15	Three	—	—	42	39*	19.5	14.5	1735	4	24 5/16	34 5/8	1.18	12 3/8	478
GPN415	22	Three	—	—	55	52*	24	20	1735	4	24 5/16	34 5/8	1.18	12 3/8	485
GPN422	30	Three	—	—	—	—	36.5	29.5	1750	4	28 9/16	43 3/8	1.18	11 3/4	910
GPN622	30	Three	—	—	—	—	36.5	29.5	1750	6	28 9/16	43 3/8	1.18	11 3/4	910
GPN837	50	Three	—	—	—	—	64	52	1160	8	39 15/16	63 1/4	1.81	22	1760
GSD-37-4	50	Three	—	—	—	—	63	49.5	1740	8	36	62 5/16	0.984	18 7/8	1290
GSD-55-4	75	Three	—	—	—	—	97	76	1775	10	41 5/16	75 7/8	0.984	20 1/8	2440
GSD-75-4	100	Three	—	—	—	—	128	101	1775	10	41 5/16	75 7/8	0.984	20 1/8	2690

* Dual Voltage

FOR SPECIAL PUMPING | Submersible Seawater-Resistant Dewatering Pumps

Seawater Resistant Kit

Tsurumi's standard pumps can be combined with a seawater-resistant kit (optional) that adds a galvanic anode and seawater-resistant special cast iron impeller, and enables about two years of service. (The service period depends on operating conditions.)

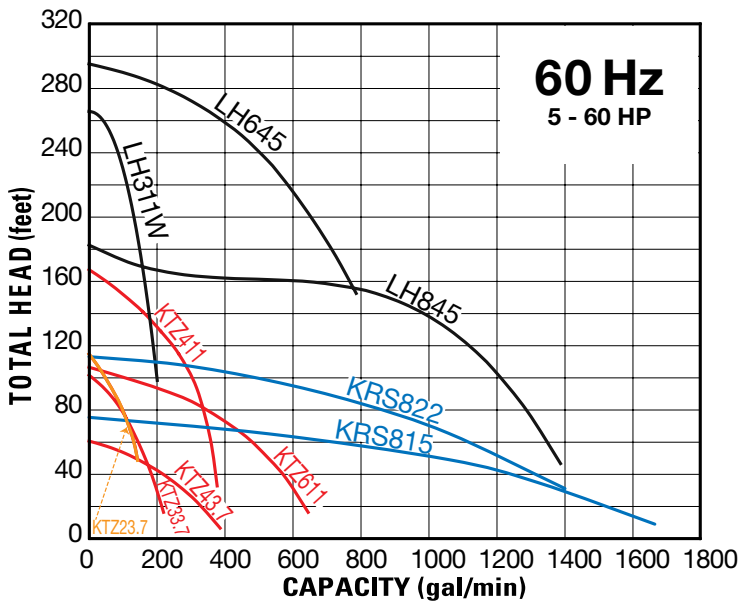
- ✓ Galvanic Anodes (with Fittings, Seal Putty)
- ✓ Seawater-Resistant Special Cast Iron Impeller
- ✓ 304 Stainless Steel Eye Bolts*
* Applicable only with models having steel eye bolts



KTZ33.7

LH311W

KRS815



The **galvanic anode** is an electrolytic protective measure used with metals of differing corrosive potentials. Metals of a potential lower (aluminium and zinc) than the pump body (cast iron and steel) are brought into contact with the body via the galvanic anodes and allowed to corrode in order to protect the body. However, the full effect cannot be obtained unless the anodes are installed in the proper positions.

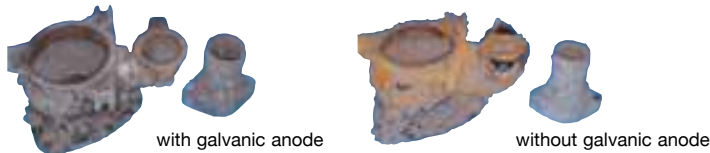
Tsurumi mainly utilizes aluminium because of its superior anticorrosive performance per unit weight, while utilizing zinc for only the strainer stand that is liable to be worn by water current. Since the galvanic anodes are worn by corrosion, they need to be replaced every two years. They can be replaced easily and used immediately after replacement.



Aluminium

Zinc

Corrosion Test (in seawater, 1 year)



with galvanic anode

without galvanic anode

MODEL	MOTOR SPECIFICATIONS					Discharge Size (inch)	DIMENSION		Max. Solids Dia. (inch)	Continuous Running Water Level (in.)	Pump Weight (lbs.)	
	Output (HP)	Rated Current (A)					RPM	Diameter				Height
		208V	230V	460V	575V							
KTZ23.7	5	15	13.6	6.8	5.3	3410	2	11 1/8	26 1/4	0.334	5 7/8	137
KTZ43.7	5	15	13.6	6.8	5.3	3410	4	11 1/8	27 1/16	0.334	5 7/8	137
KTZ411	15	39.8	37.4	18.6	14.9	3520	4	14 3/4	32 15/16	0.472	7 1/2	293
KTZ611	15	39.8	37.4	18.6	14.9	3520	4	14 3/4	32 15/16	0.787	7 1/2	295
LH645	60	—	—	67	53	3530	6	20 7/8	57	0.236	9 7/8	780
LH845	60	—	—	67	53	3530	8	20 7/8	58 9/16	0.787	7 1/8	1120
LH311W	15	42	37	18.5	14.5	3465	3	10 5/8	40 5/16	0.334	7 7/8	287
KRS815	20	57.9	55.7	27.9	22.2	1735	8	18 15/16	38 9/16	0.984	10 7/8	530
KRS822	30	—	—	38.5	30.8	1745	8	22 11/16	47 1/4	0.984	13 5/8	840

TSURUMI PUMP™ ACCESSORIES

CONTROL PANELS - Automatic / Manual, VFD & Soft Start Control Panels

■ Automatic Control Panels

- UL Listed Nema 4X Fiberglass Enclosure
- HOA Selector Switch
- IEC Rated Magnetic Contactor
- Field Adjustable Overload Protection
- Includes (2) 50" Mechanical Floats



■ Manual Control Panels

- UL Listed
- Hand/Off Lockable Selector Switch
- IEC Rated Magnetic Contactor
- Field Adjustable Overload Protection
- Nema 4X Fiberglass Enclosure



■ VFD and Soft Start Control Panels

- Constant Pressure
- Constant Level
- Pace FLOW
- UL Listed
- Field Adjustable Overload Protection

Available Options Include:

- Line Reactor
- Load Reactor
- Seal Leak Protection
- Lightning Protection
- Ground-Ground Check Protection
- Elapsed Time meter
- Mechanical Floats
- Liquid Level Probes
- SCADA monitoring



TSURUMI PUMP™

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TSURUMI (AMERICA), INC.

Headquarters: 1625 Fullerton Ct, Glendale Heights, IL 60139

Utah Office: 6216 West 9790 South, West Jordan, UT 84081

Tel: 1-888-878-7864 (Toll-Free) • 1-630-793-0127

Fax: 1-630-793-0146 • www.tsurumipump.com



Your Dealer

TSURUMI Canada

149 J.A. Bombardier, Suite 10
Boucherville QC J4B 8P1

+14504496484

info@tsurumicanada.com
tsurumicanada.com



Find us @tsurumiamerica