TSURUMI PUMP

FEATURES

- 1. Semi-open, high chrome iron impeller with replaceable / adjustable high chrome Iron wear rings, increases wear resistance, when pumpage contains abrasive particles.
- 2. Double inside mechanical seals with silicon carbide faces, (both top and bottom) running in an oil filled chamber and further protected by a lip seal running against a replaceable, 430 stainless steel shaft sleeve, provides for the most durable seal design available.
- 3. Highly efficient, continuous duty air filled, copper wound motor with class B, F insulation minimizes the cost of operation.
- 4. Built in thermal & amperage sensing protector prevents motor failure due to

overloading or accidental run -dry conditions.

LH - SERIES

DEWATERING PUMP

- 5. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours, extend operational life.
- 6. Top discharge, flow-thru design enables operation at low water levels for extended periods.

APPLICATIONS

- 1. Commercial, industrial wastewater and construction site drainage.
- 2. Effluent transfer.
- 3. Decorative waterfalls and fountains.
- 4. Raw water supply from rivers or lakes.



SPECIFICATIONS



SPECIFICATIONS

Discharge Size Horsepower Range Performance Range Capacity Head Maximum water temperature Materials of Construction Casing Impeller Shaft Motor Frame Fasteners Seal Pressure Relief Ports Mechanical Seal Elastomers Impeller Type Solids Handling Capability

Bearings

Motor Nomenclature Type, Speed, Hz. Voltage, Phase Insulation

Accessories

Operational Mode

| STANDARD |
|--|
| 3" ~ 8" NPT (80 mm ~ 200 mm) |
| 4 ~ 150 HP. (3 ~ 110 Kw) |
| 26.4 ~ 1717.0 GPM. (0.1 ~ 6.5 m ³ /min) |
| 20.5 ~ 604.0 Ft. (6.25 ~ 184.1m) |
| 104° F. (40° C.) |
| |

Cast Iron, Ductile C **High Chrome Cast** 420 Stainless Steel Cast Iron 304 Stainless Steel 50 - 150HP (37 - 11 Silicon Carbide NBR (Nitrile Butadie Semi-open, solids h 0.236 - 0.787" (6 - 2

Prelubricated, Doub

Air Filled, 3600 RPI 208/230/460/575 V Class B, F

Submersible Power 50 - 65' (15 - 20m)

Manual

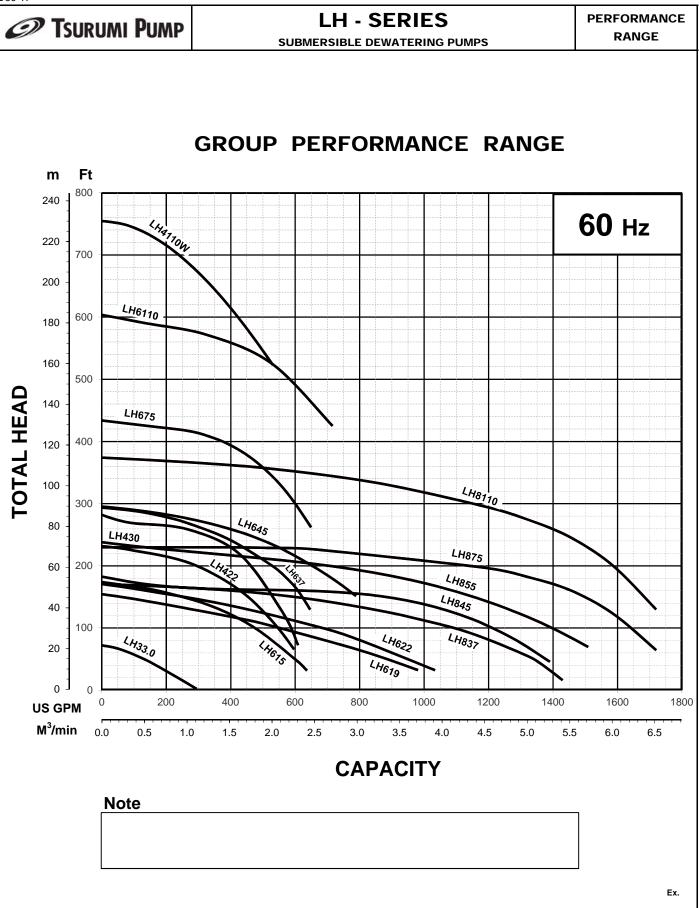


| $\delta.25 \sim 184.1 \text{m}$ | |
|------------------------------------|---------------------|
| Cast Iron Iron I | |
| l 10 kW) | |
| iene Rubber) handling. 20mm) | |
| ble Shielded | |
| M, 60 Hz. ⁄., 3 Phase. | |
| r Cable | Length as Required. |

OPTIONS

TS-303 Float Switch





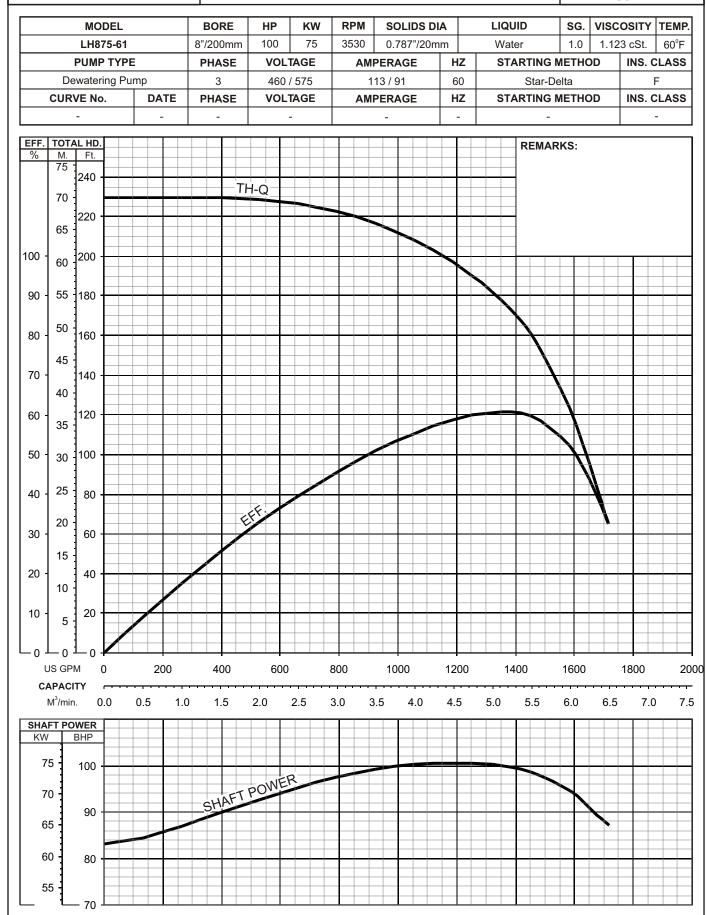
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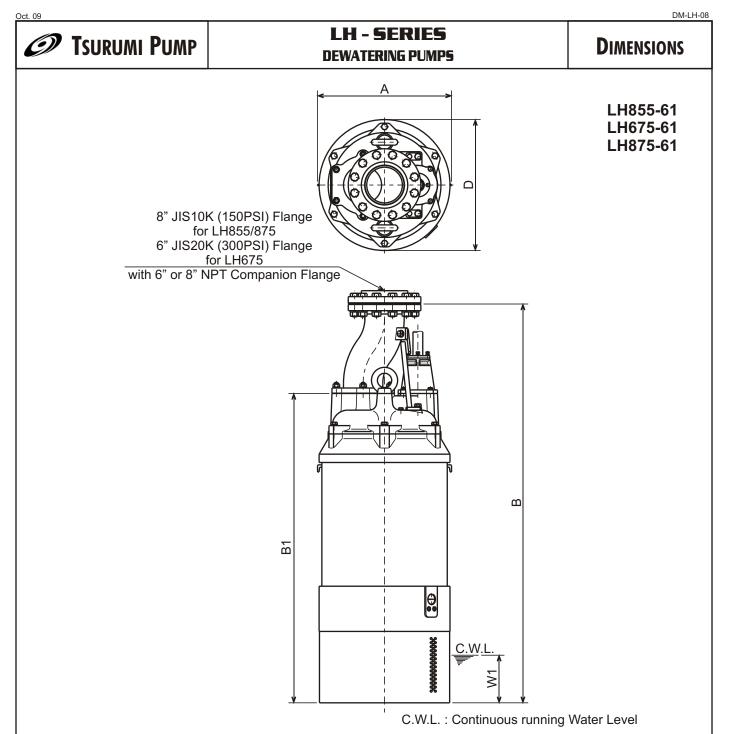
TSURUMI PUMP

LH - SERIES DEWATERING PUMPS

Performance Curve

60-PC-LH-17





DIMENSIONS:USCS (Inch)

| Model | HP | NOM. | | Pump 8 | & Motor | | C.W.L. | Wt. |
|----------|-----|------|---------|---------|---------|--------|--------|--------|
| | | SIZE | Α | В | B1 | D | W1 | (lbs.) |
| LH855-61 | 75 | 8" | 22 3/16 | 67 9/16 | 51 3/16 | 21 5/8 | 7 7/8 | 1810 |
| LH675-61 | 100 | 6" | 22 3/16 | 66 | 51 3/16 | 21 5/8 | 7 7/8 | 1910 |
| LH875-61 | 100 | 8" | 22 3/16 | 67 9/16 | 51 3/16 | 21 5/8 | 7 7/8 | 1910 |

DIMENSIONS:METRIC (mm)

| kW | NOM. | | Pump 8 | & Motor | | C.W.L. | Wt. |
|----|----------|--------------------------------|--|--|---|---|--|
| | SIZE | Α | В | B1 | D | W1 | (kg) |
| 55 | 200 | 563 | 1716 | 1300 | 550 | 200 | 820 |
| 75 | 150 | 563 | 1676 | 1300 | 550 | 200 | 865 |
| 75 | 200 | 563 | 1716 | 1300 | 550 | 200 | 865 |
| | 55 75 | SIZE 55 200 75 150 | SIZE A 55 200 563 75 150 563 | SIZE A B 55 200 563 1716 75 150 563 1676 | SIZE A B B1 55 200 563 1716 1300 75 150 563 1676 1300 | SIZE A B B1 D 55 200 563 1716 1300 550 75 150 563 1676 1300 550 | SIZE A B B1 D W1 55 200 563 1716 1300 550 200 75 150 563 1676 1300 550 200 |

| 9 | Tsurumi Pun | | SERIES RING PUMPS | SECTIONAL | VIE |
|--|--|--|---|--|---|
| | | 37 | | -48 LH859 LH679 -1 LH879 | 5-61 |
| | | 51 | | -(3) -(6) | |
| | | 53 | | 52A | |
| | | 64 | | 55 56 | |
| | | 52B | | 26A | |
| | | 25 90 | | (54) (36) | |
| | | 30 | | 35 | |
| | | 29 71A | | 60 26C | |
| | | 20A | | | |
| | | 208 | | -26B | |
| | | (34) (23) | | (21) (43) | |
| ITEM# | DESCRIPTION Power Cable | MAIN MATERIAL / NOTE Chloroprene Sheath AWG 2/6, 4/1, 14/3 -50f | RELA TED AS TM, A ISI CODE | RELATED EN CODE | Q' |
| 3 | Gland | Cast Iron | A48M Class30B | EN1561 GJL-200 | 1 |
| | Stuff ing Box Upper Pump Casing | Cast Iron Cast Iron | A48M Class30B A48M Class30B | EN 1561 GJL-200 EN 1561 GJL-200 | 1 |
| | opper rump casing | | A48M Class30B | EN1561 GJL-200 | _ |
| 20A | Lower Pump Casing | I Cast Iron | | | |
| 20A 20B | Low er Pump Casing Impeller | Cast Iron High Chrome Cast Iron | A532 Class III Type A | DN 1695 G-X2600 27 | _ |
| 20A 20B 21 | Low er Pump Casing Impeller Suction Strainer | Cast Iron High Chrome Cast Iron Steel | A532 Class III Type A A283 Grade D | DN 1695 G-X260027 EN 10025 S275 | 1 |
| 20A 20B 21 23 25 | Impeller Suction Strainer Mechanical Seal | High Chrome Cast Iron Steel Silicon Carbide / H-50T | | | 1 |
| 20A 20B 21 23 25 26A | Impeller Suction Strainer Mechanical Seal Oil Seal | High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 | | | 1 1 1 |
| 20A 20B 21 23 25 26A 26B | Impeller Suction Strainer Mechanical Seal Oil Seal Oil Seal | High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 | A283 Grade D | EN 10025 S275 | 1 1 1 1 |
| 20A 20B 21 23 25 26A 26B 26C | Impeller Suction Strainer Mechanical Seal Oil Seal Oil Seal Labyrinth Ring | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel | A283 Grade D S 30400 | EN 10025 S275 | |
| 20A 20B 21 23 25 26A 26B 26C 29 | Impeller Suction Strainer Mechanical Seal Oil Seal Oil Seal Labyrinth Ring Oil Casing | High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron | A283 Grade D S 30400 A48M Class30B | EN 10025 S275 1.4301 EN 1561 GJL-200 | 1 1 1 1 1 1 |
| 20A 20B 21 23 25 26A 26B 26B 26C 29 30 | Impeller Suction Strainer Mechanical Seal Oil Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter | High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) | A283 Grade D S 30400 A48M Class30B A109/A 1008 | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth | High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X2600/27 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 30 34 35 | Impeller Suction Strainer Mechanical Seal Oil Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter | High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) | A283 Grade D S 30400 A48M Class30B A109/A 1008 | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 | Impeller Suction Strainer Mechanical Seal Oil Seal Dil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X2600/27 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Ppe + Steel / 6" JS20K or 8" JIS10K Aluminium Allo y | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class IIIType A S 30400 A53 Type F + A283 Grade D | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 37 43 48 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JS20K or 8" JIS10K Aluminium Allo y Cast Iron / NPT 6"or 8" | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260Q27 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 48 50 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Ppe + Steel / 6" JS20K or 8" JIS10K Aluminium Alloy Cast Iron | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 | 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 3 3 1 1 1 |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 37 43 43 48 50 51 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Onrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Ripe + Steel / 6" JB20K or 8" JIS10K Aluminium Allo y Cast Iron Cast Iron Cast Iron Cast Iron | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260Q27 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 34 35 36 37 43 35 50 51 52A | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JB20K or 8" JIS10K Aluminium Alloy Cast Iron / NPT 6"or 8" Cast Iron Cast Iron Kast Iron | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 35 36 37 43 35 50 51 52A 52B | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Onrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Ripe + Steel / 6" JB20K or 8" JIS10K Aluminium Allo y Cast Iron Cast Iron Cast Iron Cast Iron | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 48 50 51 52A 52B 53 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Motor Protector | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JE20K or 8" JIS10K Aluminium Allo y Cast Iron Cast Iron #NU310C3 #7313ADBC3 w/ Spacer | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B A48M Class30B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-200 | |
| 20A 20B 21 23 25 26A 26C 29 30 34 35 36 37 43 48 50 51 52A 52B 53 54 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Casing Oil Lift er Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Corpanion Flange Motor Bracket Motor Head Qover Upper Bearing Low er Bearing Motor Protector Shaft | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JB20K or 8" JIS10K Aluminium Alloy Cast Iron / NPT 6"or 8" Cast Iron Cast Iron Kast Iron | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 35 36 37 43 48 50 51 52A 52B 53 54 55 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Lift er Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Motor Protector Shaft Rotor | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JE20K or 8" JIS10K Aluminium Allo y Cast Iron Cast Iron #NU310C3 #7313ADBC3 w/ Spacer | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B A48M Class30B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-200 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 35 36 37 43 48 50 51 52A 52B 522B 53 54 55 56 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Lift er Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Motor Protector Shaft Rotor | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JS20K or 8" JIS10K Aluminium Alloy Cast Iron Cast Iron #NUB10C3 #7313ADBC3 w/ Spacer Stainless Steel | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class IIIType A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 448M Class30B S 42000 | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-200 1.4028 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 35 36 37 43 48 50 51 52A 52B 52B 53 54 55 56 60 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Lift er Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Motor Protector Shaft Rotor Stator Bearing Housing | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Rpe + Steel / 6" JS20K or 8" JIS10K Aluminium Allo y Cast Iron Zast Iron #7313ADBC3 w/ Spacer Stainless Steel Cast Iron Katinless Steel Cast Iron Cast Iron Cast Iron Zast Iron Cast Iron Katinless Steel Cast Iron Stainless Steel Cast Iron Stainless Steel Cast Iron | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class IIIType A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 448M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 48 50 51 52A 53 54 55 56 60 64 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Low er Bearing Motor Protector Shaft Rotor Stator Bearing Housing Motor Housing | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JB20K or 8" JIS10K Aluminium Allo y Cast Iron #NU310C3 #7313ADBC3 w/ Spacer Stainless Steel Cast Iron Cast Iron | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class35B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 | |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 50 51 52A 52B 53 54 55 60 64 65 | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Low er Bearing Motor Protector Shaft Rotor Stator Bearing Housing Motor Housing Outer Cover | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Stainless Steel Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JS20K or 8" JIS10K Aluminium Allo y Cast Iron Zast Iron #7313ADBC3 w/ Spacer Stainless Steel Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Stainless Steel | A283 Grade D S 30400 A48M Class30B A109/A 1008 A53 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class35B A48M Class35B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260Q27 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 10025 S275 | 1 |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 48 50 51 52A 52B 53 54 55 60 64 65 71A | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Low er Bearing Motor Protector Shaft Rotor Stator Bearing Housing Motor Housing Outer Cover Shaft Sleeve (Upper) | High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JB20K or 8" JIS10K Aluminium Alloy Cast Iron / NPT 6"or 8" Cast Iron #NU310C3 #7313ADBC3 w/ Spacer Stainless Steel Cast Iron Cast Iron Cast Iron Cast Iron Steel Stainless Steel Stainless Steel | A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class IIIType A S 30400 A532 Class IIIType A S 30400 A48M Class30B A48M Class30B A48M Class35B A48M Class35B A48M Class35B A48M Class35B A48M Class35B A48M Class35B S 42000 S 42000 S 42000 S 42000 | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 1561 GJL-200 EN 1695 G-X260027 1.4301 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 10025 S275 1.4 | 1 |
| 20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 50 51 52A 52B 53 54 55 56 60 64 65 71A 71B | Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Low er Bearing Motor Protector Shaft Rotor Stator Bearing Housing Motor Housing Outer Cover | High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Stainless Steel Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JS20K or 8" JIS10K Aluminium Allo y Cast Iron Zast Iron #7313ADBC3 w/ Spacer Stainless Steel Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Stainless Steel | A283 Grade D S 30400 A48M Class30B A109/A 1008 A53 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class35B A48M Class35B | EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260Q27 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 10025 S275 | 1 1 <td< td=""></td<> |



LH - SERIES DEWATERING PUMPS

SAMPLE SPECIFICATIONS

1. SCOPE OF SUPPLY -

Furnish and install TSURUMI Model ______ Submersible Pump(s). Each unit shall be capable of delivering _____GPM (_____m³/min) at _____Feet (_____m) TDH. The pump(s) shall be designed to pump waste water or effluent without damage during operation. The pump(s) shall be designed so that the shaft power required (BHP)/(kW) shall not exceed the motor rated output throughout the entire operating range of the pump performance curve. Pump(s) shall be of the top discharge, flow through design.

2. MATERIALS OF CONSTRUCTION -

Construction of major parts of the pumping unit(s) shall be gray cast iron, ASTMA48 CLASS 35. Impellers and field adjustable/replaceable wear plates shall be high chrome iron. Internal and external surfaces coming into contact with the pumpage shall be protected by a fused polymer coating. All exposed fasteners shall be stainless steel. All units up to 75 HP and LH875/890/8110 shall be furnished with 150 lb. (10 kg/cm²) flat face flange and NPT companion flange. LH675/690/6110 shall be furnished with 300 lb. (20 kg/cm²) flat face flange and NPT companion flange. Impellers shall be of the multi-vane enclosed solids handling design equipped with back pump out vanes and shall be slip fit to the shaft and key driven. The unit(s) shall include built in cathodic protection.

3. MECHANICAL SEAL -

All units shall be furnished with a dual inside mechanical shaft seal located completely out of the pumpage, running in a separate oil filled chamber and further protected by an exclusionary oil seal located between the bottom seal faces and the fluid being pumped. The oil chamber shall be fitted with a device that shall provide positive lubrication of the top mechanical seal, (down to one third of the standard oil level). The device shall not consume any additional electrical power. Mechanical seals shall be rated to preclude the incursion of water up to 42.6 PSI (98.4 Ft.) submergence. Units shall have silicon carbide mechanical seal faces. Mechanical seal hardware shall be stainless steel. Unit(s) shall incorporate seal pressure relief ports. Units 75 Hp and above shall be supplied with electrode type seal sensor. All unit(s) shall be fitted with a replaceable shaft sleeve.

4. MOTOR-

The pump motor(s) shall be ______ H P., ______ kW., ______V., 60 Hz. 3 Phase and shall be NEMA MG-1, Design Type B equivalent. Motor(s) shall be rated at full load amps. Motor(s) shall have a 1.15 service factor and shall be rated for 20 starts per hour. Motor(s) shall be air filled, copper wound, class F or B (up to 30 HP) insulated with built in thermal protection for each winding. Motor shaft shall be 420 stainless steel and shall be supported by two high temperature bearings, with a B-10 life rating at best efficiency point of 60,000 hours. On units up to 60 HP, the bottom bearing shall be two row, double shielded, C3, deep groove type ball bearing, and the top bearing shall be single row, double shielded, C3, angular contact type ball bearing, and the top bearing shall be re-greasable, two row, C3, angular contact type ball bearing, and the top bearing shall be re-greasable, single row, C3, cylindrical roller bearing. Motors shall be D.O.L. or stardelta start (40 HP and above), and shall be suitable for across the line start or variable speed applications, utilizing a properly sized variable frequency drive.

5. POWER CABLE AND CABLE ENTRANCE -

The pump power cable shall be suitable for submersible pump applications and shall be field replaceable utilizing standard submersible pump cable. The cable entrance shall incorporate built in strain relief and a combination three way mechanical compression sealing. The cable entrance assembly shall contain a anti-wicking block to eliminate water incursion into the motor due to capillary wicking should the power cable be accidentally damaged.