FEATURES

- 1. Semi-open, Single vane, impellers with field adjustable /replaceable shear plate and, Enclosed Multi-vane, impellers, with field adjustable / replaceable wear plate provides for high wear resistance and enhanced solids handling capability.
- 2. Highly efficient, continuous duty air filled, copper wound motor with class E, B, F insulation minimizes the cost of operation.
- 3. Built in thermal protection prevents motor failure due to overloading, accidental run-dry and single phasing in three phase units.
- 4. Double inside mechanical seals with silicon carbide faces, running in an oil filled chamber, equipped with an oil lifter,, and further protected by an exclusionary oil Seal(s), provides for the most -

SPECIFICATIONS

Discharge Size Horsepower Range Performance Range, Capacity Head Maximum water temperature Materials of Construction Casing Impeller Shaft Motor Frame Fasteners

Mechanical Seal Elastomers

Impeller Type Solids Handling Capability

Bearings

Motor Nomenclature Type, Speed, Hz.

Voltage, Phase

Insulation Accessories

Operational Mode

- durableeal design available.
- 5. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours provide for extended operational life.

APPLICATIONS

- 1. Commercial, Industrial sewage, wastewater, or effluent transfer.
- 2. Decorative fountains and aquiculture .
- 3. Raw water supply from rivers or lakes.

STANDARD

2" ~ 8" (50 ~ 200 mm) 1 Hp. ~ 20 Hp. (.75 kW ~ 20 kW) 20 ~ 1850 G.P.M. (.08 ~ 7.00 m³/min) 8.2 Ft.~105.0 Ft. (2.5 ~ 32.0m) 104° F. (40° C.)

Cast Iron, ASTM 48 Class 35 Cast Iron, ASTM 48 Class 35 403,420 Stainless Steel Cast Iron, ASTM 48 Class 30 304 Stainless Steel

Silicon Carbide NBR (Nitril Buna Rubber)

Semi-open, Enclosed, solids handling. .79" ~ 2.95" (20 ~ 75 mm)

Pre-lubricated, Double Shielded

Air Filled. 3600, 1800 & 1200 Rpm, 60 Hz.

115 or 230 (1Phase) 208-230, 460 or 575 V., (3 Phase) Class E, B, F Submersible Power Cable 32' (10 m)

Manual



Dry-Pit

FOLUPPED

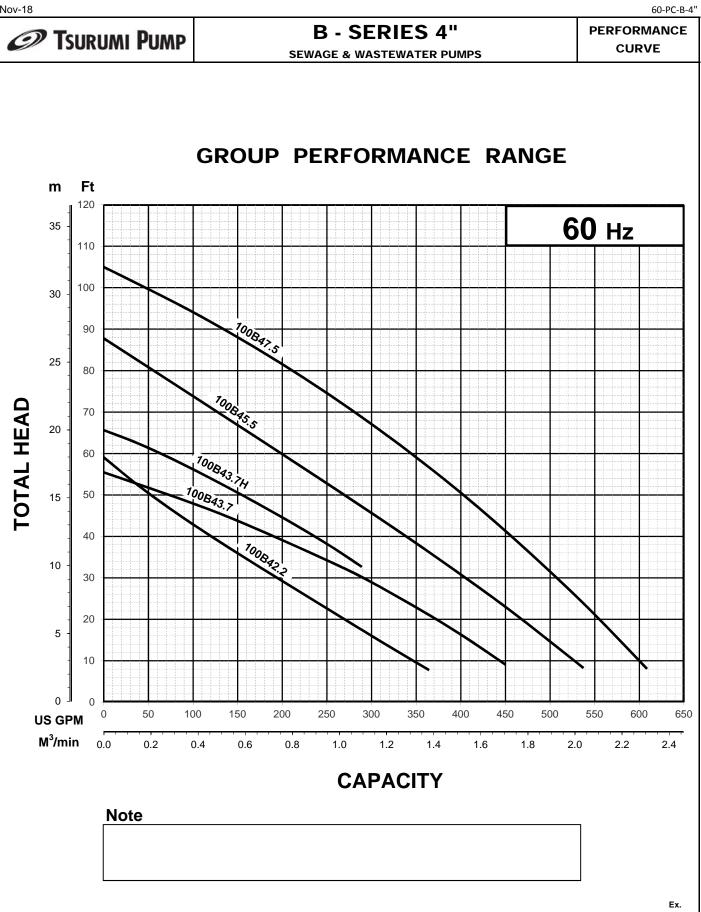
OPTIONS

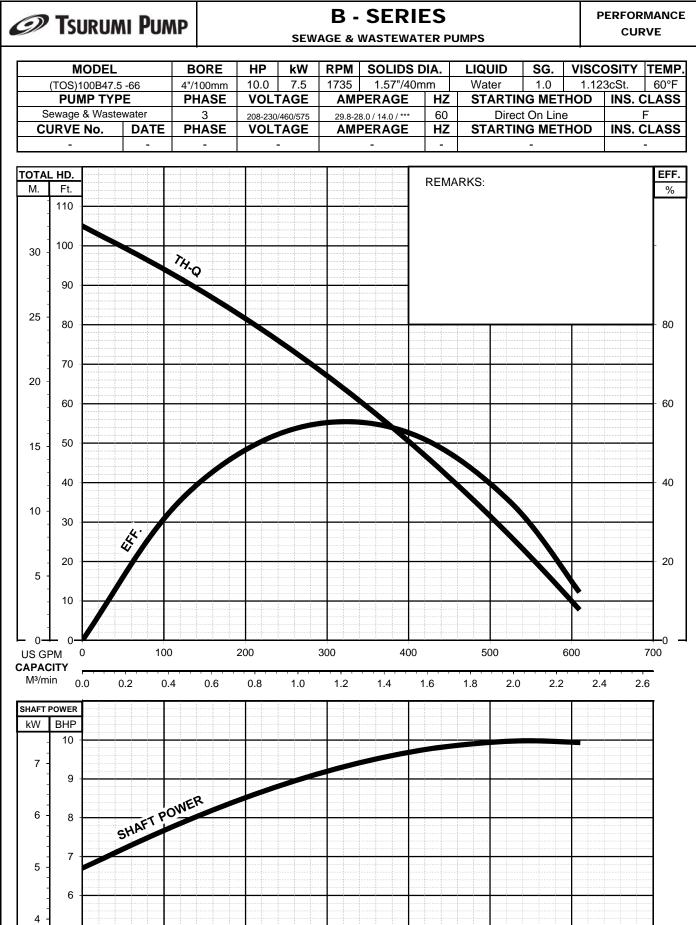
Nema 3R inverter available for 230 V.,1 Ph. operation from 2~5 Hp.

Length as required. TO/TOS Slide Rail System

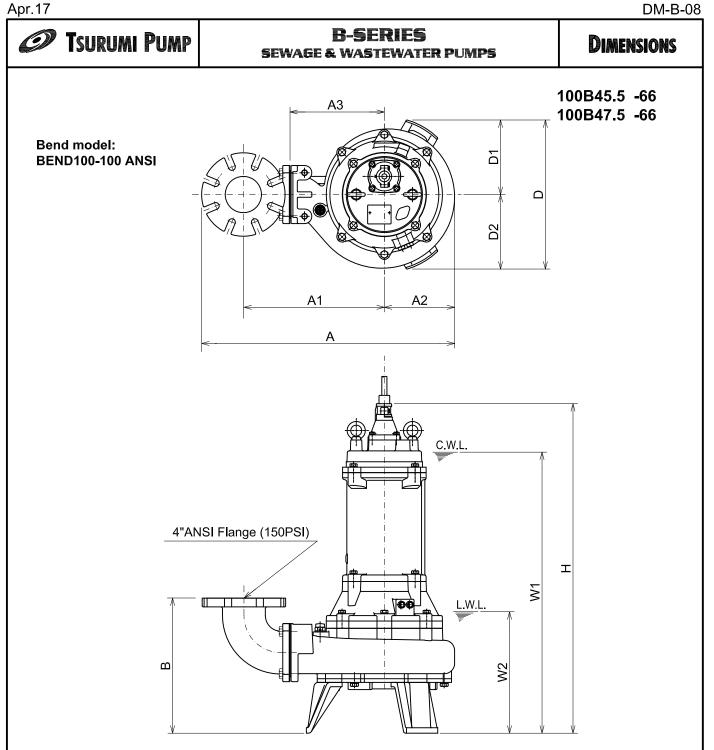
SPECIFICATIONS







5



C.W.L. :Continuous running Water Level L.W.L. :Lowest running Water Level

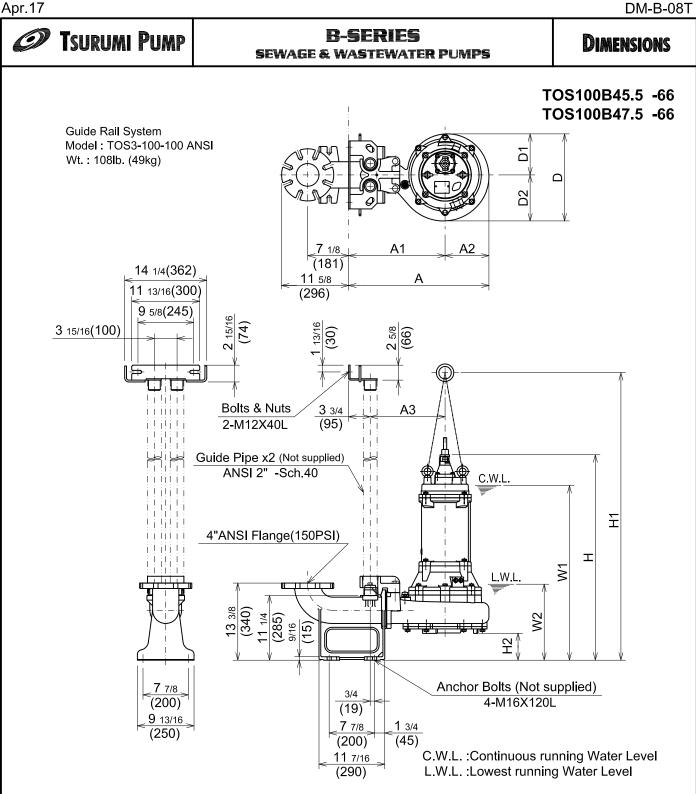
*Excluding Cable.

DIMENSIONS:USCS(Inch)

Model	ΗP	NOM.				Pur	np & Mo	otor				C.W.L.	L.W.L.	*Wt.
		SIZE	Α	A1	A2	A3	В	D	D1	D2	Н	W1	W2	(lbs.)
100B45.5 -66	7.5	4"	27 13/16	15 5/8	7 5/8	10 1/4	14 5/8	16 1/8	8 1/16	8 1/16	35 3/4	30 1/2	13 1/4	298
100B47.5 -66	10	4"	27 13/16	15 5/8	7 5/8	10 1/4	14 5/8	16 1/8	8 1/16	8 1/16	36 9/16	31 1/2	13 1/4	328

DIMENSIONS:METRIC(mm)

Model	kW	NOM.				Pur	np & Mo	otor				C.W.L.	L.W.L.	*Wt.
		SIZE	Α	A1	A2	A3	В	D	D1	D2	Н	W1	W2	(kg)
100B45.5 -66	5.5	100	706	397	194	260	372	410	205	205	908	775	335	135
100B47.5 -66	7.5	1 0 0	706	397	194	260	372	410	205	205	929	800	335	149



DIMENSIONS:USCS(Inch)

Model	HP	NOM.					Pump &	Motor	•				C.W.L.	L.W.L.	*Wt.
		SIZE	Α	A1	A2	A3	D	D1	D2	Н	H1	H2	W1	W2	(lbs.)
TOS100B45.5 -66	7.5	4"	24 3/8	16 3/4	7 5/8	13	15 1/8	7 1/8	8	35 11/16	49 15/16	4 5/8	30 7/8	13 1/4	293
TOS100B47.5 -66	10	4"	24 3/8	16 3/4	7 5/8	13	15 1/8	7 1/8	8	36 1/2	50 7/8	4 5/8	31 3/4	13 1/4	324

TOS & Cable DIMENSIONS:METRIC(mm) Pump & Motor Wt. C.W.L.L.W.L kW NOM. Model SIZE A1 A2 A3 D **D1** D2 Н H1 H2 W1 W2 (kg) Α TOS100B45.5 -66 425 203 5.5 100 619 194 330 384 181 906 1268 118 785 335 133 425 1293 147 TOS100B47.5 -66 7.5 100 619 194 330 384 181 203 927 118 805 335

*Excluding

					SEC-B-(
Ø	Tsurumi Pump	B-SERIE SEWAGE & WASTEWA		SECTION	al View
				100B45.5 100B47.5 100B47.5 (1) (6) (72) (53) (55) (56) (53) (56) (52) (54) (36) (35) (26) (29) (21)	
*1 AW0 *2 AC-#	B45.5 B47.5 G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3		RELATED ASTMAISL CODE	T (20) T (22) RELATED EN CODI	= 0TY
* 1 AW0 * 2 AC-# PART# 1 P	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable	MAIN MATERIAL / NOTE Chloroprene Sheath * 1	RELATED ASTM, AISI CODE	(22) RELATED EN CODI	1
* 1 AW0 * 2 AC-# PART# 1 P 6 S	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron	RELATED ASTM,AISI CODE A48M Class30B	RELATED EN CODI	1
* 1 AW0 * 2 AC-# PART# 1 P 6 S 20 P	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200	1 1 1
* 1 AW0 * 2 AC-# PART# 1 P 6 S 20 P 21 Ir	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1
* 1 AW0 * 2 AC-# PART# 1 P 6 S 20 P 21 Ir 22 S	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 1 1
* 1 AW0 * 2 AC-# DART# 1 P 6 S 20 P 21 Ir 22 S 23 P	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 1 3
* 1 AW0 * 2 AC-# DART# 1 P 6 S 20 P 21 Ir 22 S 23 P 25 M	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Mechanical Seal	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Silicon Carbide / H-35	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 1 3 1
* 1 AW0 * 2 AC+ PART# 1 P 6 S 20 P 21 Ir 22 S 23 P 25 M 26 C	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Acchanical Seal Dil Seal	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Silicon Carbide / H-35 NBR / TC608212	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 3 1 1 1
* 1 AW0 * 2 AC-# PART# 1 1 P 6 S 20 P 21 Ir 22 S 23 P 25 M 26 C 29 C	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Acchanical Seal Dil Seal Dil Casing	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Silicon Carbide / H-35 NBR / TC608212 Cast Iron	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 1 3 1 1 1 1 1
* 1 AW(* 2 AC- PART# 1 P 6 S 20 F 21 Ir 22 S 23 F 25 M 26 C 29 C 30 C	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Mechanical Seal Dil Seal Dil Casing Dil Lifter	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Silicon Carbide / H-35 NBR / TC608212 Cast Iron PBT Resin W/GF40	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 3 1 1 1 1 1 1
* 1 AWC * 2 AC-# PART# 1 1 P 6 S 20 F 21 Ir 22 S 23 F 23 F 25 M 26 C 29 C 30 C 35 C	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Mechanical Seal Dil Seal Dil Seal Dil Casing Dil Lifter Dil Plug	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Silicon Carbide / H-35 NBR / TC608212 Cast Iron PBT Resin W/GF40 Stainless Steel	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 1 3 1 1 1 1 1
* 1 AWG * 2 AC-# PART# 1 P 6 S 20 F 21 Ir 22 S 23 F 25 M 26 C 29 C 30 C 35 C	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Poump Casing mpeller Suction Cover Poump Stand Acchanical Seal Dil Seal Dil Casing Dil Lifter Dil Plug	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301	1 1 1 1 3 1 1 1 1 1 1
* 1 AW(* 2 AC- PART# 1 P 6 S 20 F 21 Ir 22 S 23 F 25 M 26 C 29 C 30 C 30 C 35 C	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Mechanical Seal Dil Seal Dil Seal Dil Casing Dil Lifter Dil Plug	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Silicon Carbide / H-35 NBR / TC608212 Cast Iron PBT Resin W/GF40 Stainless Steel	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 3 1 1 1 1 1
* 1 AWC * 2 AC-# PART# 1 1 P 6 S 20 F 21 Ir 22 S 23 F 25 M 26 C 29 C 30 C 35 C 36 L 37 C	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Poump Casing mpeller Suction Cover Poump Stand Acchanical Seal Dil Seal Dil Casing Dil Lifter Dil Plug	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301	1 1 1 1 3 1 1 1 1 1 2
* 1 AWC * 2 AC-# PART# 1 1 P 6 S 20 F 21 Ir 22 S 23 F 25 M 26 C 29 C 30 C 35 C 36 L 37 C	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Mechanical Seal Dil Seal Dil Casing Dil Lifter Dil Plug Lubricant Discharge Bend Air Release Valve	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20 Cast Iron / 4"ANSI Flange(150PSI) Nylon	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400 A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301 EN 1561 GJL-200	1 1 1 1 3 1 1 1 1 1 2 1 1 1 1
* 1 AWC * 2 AC-# PART# 1 1 P 6 S 20 F 21 Ir 22 S 23 P 25 M 26 C 29 C 30 C 30 C 35 C 36 L 37 C 46 A 50 M	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Acchanical Seal Dil Seal Dil Casing Dil Lifter Dil Plug Lubricant Discharge Bend Xir Release Valve Aotor Bracket	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Silicon Carbide / H-35 NBR / TC608212 Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20 Cast Iron / 4"ANSI Flange(150PSI) Nylon Cast Iron	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400 A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301	1 1 1 1 3 1 1 1 1 1 2 1 1 1 1 1 1 1
* 1 AWC * 2 AC-# PART# 1 1 P 6 S 20 P 21 Ir 22 S 23 P 25 M 26 C 29 C 30 C 35 C 35 C 36 L 37 C 36 A 37 C	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Aechanical Seal Dil Seal Dil Casing Dil Lifter Dil Casing Dil Lifter Dil Casing Dil Lifter Dil Casing Dil Casing Dil Casing Dil Casing Dil Casing Dil Casing Dil Casing Dil Casin	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20 Cast Iron / 4"ANSI Flange(150PSI) Nylon Cast Iron * 2	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400 A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301 EN 1561 GJL-200	1 1 1 1 3 1 1 1 1 1 2 1 1 1 1 1 1 1 1
* 1 AWC * 2 AC-# PART# 1 1 P 6 S 20 P 21 Ir 22 S 23 P 25 M 26 C 29 C 30 C 30 C 35 C 30 C 35 C 36 L 37 C 46 A 50 M 52A L	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Acchanical Seal Dil Seal Dil Casing Dil Lifter Dil Plug Lubricant Discharge Bend Xir Release Valve Aotor Bracket Jpper Bearing Lower Bearing	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Silicon Carbide / H-35 NBR / TC608212 Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20 Cast Iron / 4"ANSI Flange(150PSI) Nylon Cast Iron	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400 A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301 EN 1561 GJL-200	1 1 1 1 3 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1
* 1 AWC * 2 AC-# PART# 1 1 P 6 S 20 P 21 Ir 22 S 23 P 25 M 26 C 29 C 30 C 30 C 35 C 30 C 35 C 36 L 37 C 46 A 50 M 52A L	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Aechanical Seal Dil Seal Dil Casing Dil Lifter Dil Casing Dil Lifter Dil Casing Dil Lifter Dil Casing Dil Casing Dil Casing Dil Casing Dil Casing Dil Casing Dil Casing Dil Casin	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20 Cast Iron / 4"ANSI Flange(150PSI) Nylon Cast Iron * 2	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400 A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301 EN 1561 GJL-200	1 1 1 1 3 1 1 1 1 1 2 1 1 1 1 1 1 1 1
* 1 AWC * 2 AC- * 2 AC- * 3 AC- * AC- * 3 AC- * 3 AC- * AC * AC	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Aechanical Seal Dil Seal Dil Seal Dil Casing Dil Lifter Dil Plug Lubricant Discharge Bend Xir Release Valve Aotor Bracket Jpper Bearing Lower Bearing Aotor Protector	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20 Cast Iron / 4"ANSI Flange(150PSI) Nylon Cast Iron * 2 #6309ZZC3	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400 A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301 EN 1561 GJL-200	1 1 1 1 3 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1
* 1 AWC * 2 AC-# PART# 1 1 P 6 S 20 P 21 Ir 22 S 23 P 25 M 26 C 29 C 30 C 35 C 29 C 30 C 35 C 35 C 35 C 36 L 37 C 36 L 37 C 46 A 50 M 52A U 52B L 53 M	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Alechanical Seal Dil Seal Dil Casing Dil Lifter Dil Casing Dil Casi	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20 Cast Iron / 4"ANSI Flange(150PSI) Nylon Cast Iron * 2	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400 A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 3 1
* 1 AWC * 2 AC- * 2 AC- * 2 AC- * 7 2 AC- * 7 2 AC- * 7 2 AC- * 7 2 2 3 2 5 2 3 7 2 2 5 8 2 2 5 7 2 2 5 8 2 2 5 7 7 2 2 5 7 7 2 7 7 7 2 7 7 7 7 7	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Acchanical Seal Dil Seal Dil Seal Dil Casing Dil Lifter Dil Casing Dil Lifter Dil Casing Dil Lifter Discharge Bend Air Release Valve Aotor Bracket Jpper Bearing ower Bearing Actor Protector Shaft Rotor	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20 Cast Iron / 4"ANSI Flange(150PSI) Nylon Cast Iron * 2 #6309ZZC3	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400 A48M Class30B A48M Class30B A48M Class30B	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 3 1
* 1 AWC * 2 AC-# PART# 1 1 P 6 S 20 P 21 II 22 S 23 P 25 M 26 C 29 C 30 C 35 C 35 C 35 C 35 C 35 C 35 C 35 C 35	G 12/4-32ft AWG 10/4-32ft #6305ZZC3 AC-#6306ZZC3 DESCRIPTION Power Cable Stuffing Box Pump Casing mpeller Suction Cover Pump Stand Acchanical Seal Dil Seal Dil Seal Dil Casing Dil Lifter Dil Casing Dil Lifter Di Plug .ubricant Discharge Bend Air Release Valve Aotor Bracket Jpper Bearing .ower Bearing Aotor Protector Shaft Rotor	MAIN MATERIAL / NOTE Chloroprene Sheath * 1 Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Silicon Carbide / H-35 NBR / TC608212 Cast Iron PBT Resin W/GF40 Stainless Steel Turbine Oil ISO VG32 or SAE 10W-20 Cast Iron / 4"ANSI Flange(150PSI) Nylon Cast Iron * 2 #6309ZZC3	RELATED ASTM,AISI CODE A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 30400 A48M Class30B A48M Class30B A48M Class30B S 30400 S 30400	RELATED EN CODI EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200 I.4301 EN 1561 GJL-200 EN 1561 GJL-200 EN 1561 GJL-200	1 1 1 1 3 1
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B - SERIES SEWAGE & WASTEWATER PUMPS

1. SCOPE OF SUPPLY -

 $\label{eq:spectrum} \begin{array}{c} \mbox{Furnish and install TSURUMI Model} & \mbox{Submersible Pump(s). Each unit shall be capable of delivering} & \mbox{GPM}(\mbox{$$\mbox{$$\mbox{$$\mbox{$$\mbox{$$\mbox{$$\mbox{$$\mbox{$$\mbox{$$}\mbox{$$}\mbox{$$\mbox{$$}\mbox{$$}\mbox{$$\\\mbox{$$\mbox{$$\\\mbox{$\\\mbox{$\\\mbox{$$\\\mbox{$$\\\mbox{$$\\\mbox{$$

2. MATERIALS OF CONSTRUCTION -

Construction of major parts of the pumping unit(s) including pump casing, impeller, and discharge elbow shall be manufactured from gray cast iron, ASTM A48 CLASS 30B. Unit(s) shall have a field adjustable and or replaceable, cast iron shear type wear plate or wear rings. 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 shall be furnished with a discharge elbow with 150 lb. (10 kg/cm²) ANSI flange or flat face flange and NPT companion flange. Impellers shall be of the solids handling design and shall be slip fit to the shaft and key driven. The pump casing shall incorporate an air relief valve.

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. All units shall be fitted with a device that shall provide positive lubrication of top mechanical seal, (down to one third of the standard oil level). The device shall not consume any additional electrical power. Mechanical seals shall rated to preclude the incursion of water up to 42.6 PSI. (98.4 Ft.), 56.8 PSI.(131.2 Ft.), 71.1 PSI.(164.0 Ft.). Units shall have silicon carbide mechanical seal faces. Mechanical seal hardware shall be stainless steel.

4. MOTOR -

5. POWER CABLE AND CABLE ENTRANCE -

The pump power cable shall be suitable for submersible pump applications. Units up to 5 Hp., (except 150B63.7) shall be supplied with a cable entrance that incorporates built in strain relief, a one piece, three way mechanical compression seal with a fatigue reducing cable boot. On units 7.5 Hp. and above, and 150B63.7, the cable entrance shall incorporate built in strain relief, and combination three way mechanical compression sealing with a fatigue reducing/thermal expansion rubber boot. The power cable shall be field replaceable utilizing standard submersible pump cable. The cable entrance assembly on all units shall contain an anti-wicking block to eliminate water incursion into the motor due to capillary wicking should the power cable be accidentally Damaged.