Aug. 15 NK2-BL-P1



NK - SERIES SEMI-VORTEX - DEWATERING PUMP

SPECIFICATIONS

■ FEATURES

- Double inside mechanical seals with silicon carbide faces, running in an oil filled chamber and further protected by a lip seal running against a replaceable, stainless steel shaft sleeve provides for the most durable seal design available.
- 2. Highly efficient, continuous duty, air filled, copper wound motor with class B insulation minimizes the cost of operation.
- Built in thermal & amperage sensing protector prevents motor failure due to overloading or accidental run dry conditions.
- 4. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours extend operational life.

 Top discharge, flow-thru design enables operation at low water levels for extended periods.

Sand Kit: NK2-15SK / NK3-22SK The Sand Kit can be added to the NK series to suspend sand and prevent sand lock.

APPLICATIONS

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







■ **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

■ STANDARD

3" NPT (80 mm) 2 ~ 3 HP. (1.5 ~ 2.2 kW) 55.5 ~ 211.0 GPM. (0.21 ~ 0.80 m³/min) 34.4 ~ 85.0 Ft. (10.50 ~ 25.91 m) 104° F. (40.0° C.)

Butadiene Rubber + Natural Rubber , Cast Iron (NK3-22L) Ductile Cast Iron , High Chrome Cast Iron (NK3-22L , NK2-15SK / NK3-22SK) 420 , 403 Stainless Steel Aluminum alloy 304 Stainless Steel Silicon Carbide NBR (Nitril Butadiene Rubber) Semi-vortex, solids handling. 0.334" (8.5mm)

Prelubricated, Double Shielded

Air Filled, 3600 RPM, 60 Hz. 110/220 V., 1 Ph (NK2-15 Dual Voltage) Class B

Submersible Power Cable 32' (10.0 m)

Manual

OPTIONS

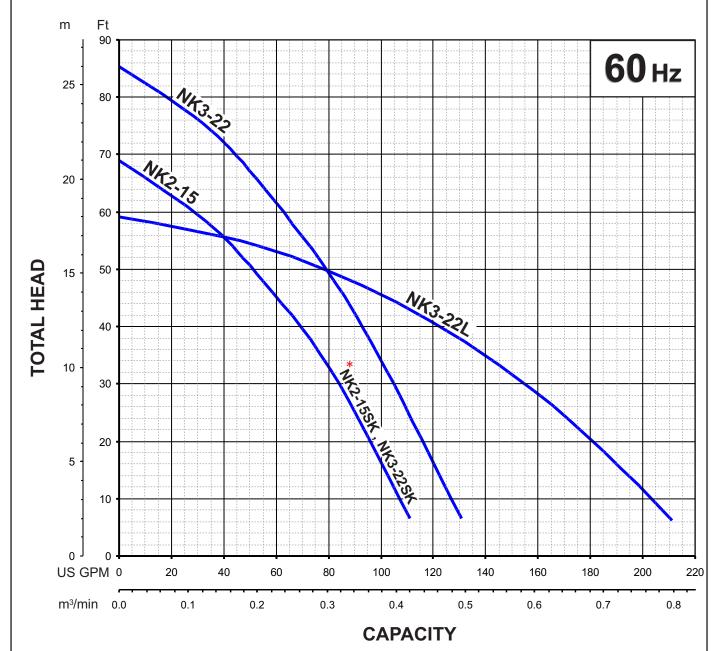
Length as Required

TS-301 Float Switch

NK - SERIES SEMI - VORTEX - DEWATERING & AGITATOR PUMPS

PERFORMANCE RANGE

GROUP PERFORMANCE RANGE



*	Standard	High Torque
Model	NK2-15SK 2HP(1.5kW)	NK3-22SK 3HP(2.2kW)

High Torqe model futher suitable for heavy duty application.

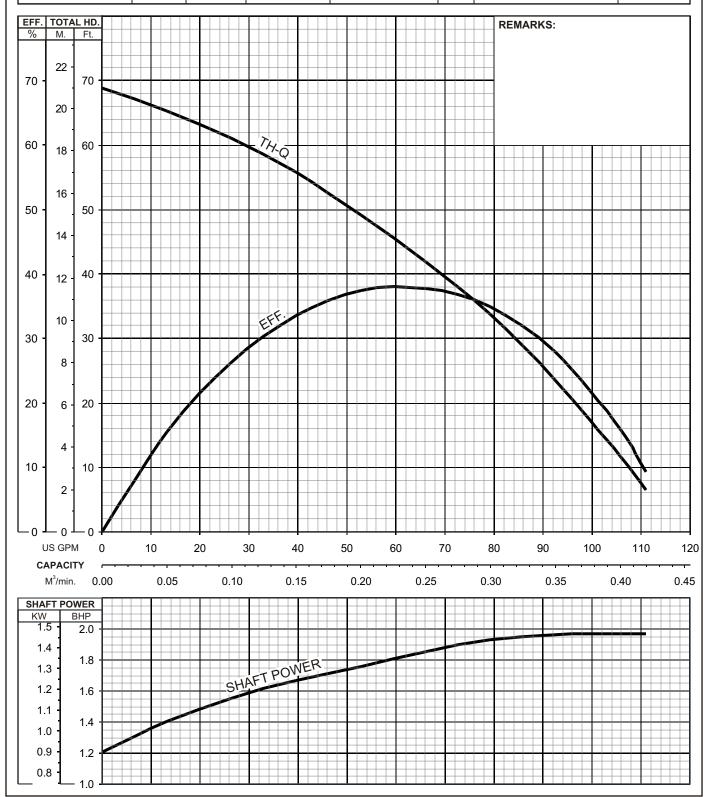
Oct. 11 60-PC-NK-01

TSURUMI PUMP

NK - SERIES SEMI-VORTEX - DEWATERING PUMPS

PERFORMANCE CURVE

MODEL		BORE	HP	KW	RPM	SOLIDS DI	A	LIQUID	SG.	VISC	OSITY	TEMP.
NK2-15		3"/80mm	2	1.5	3440	0.334"/8.5m	m	Water	1.0	1.12	3 cSt.	60°F
PUMP TYPE		PHASE	VOL.	TAGE	AM	PERAGE	HZ	STARTING METHOD		DD	INS. CLASS	
Semi-Vortex Dewater	ing Pump	Single		/ 220 /oltage)	23	.0 / 11.5	60	Capacitor	Start		E	3
CURVE No.	DATE	PHASE	VOL.	TAGE	AM	PERAGE	HZ	STARTING N	IETHO	D	INS. C	LASS
-	-	-		-		-	-	-				-



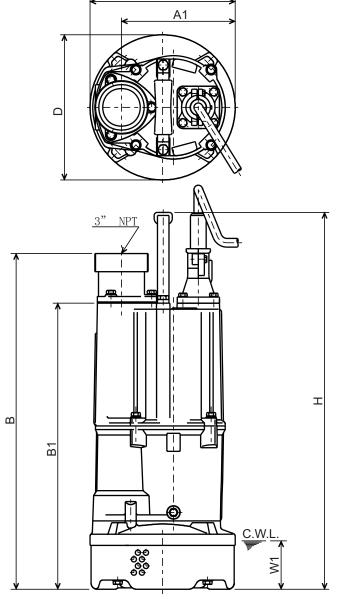
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NK - SERIES SEMI-VORTEX - DEWATERING PUMPS

DIMENSIONS

NK2-15 NK3-22



C.W.L. : Continuous running Water Level

DIM ENSIONS:USCS (Inch)

Model	HP	NOM.		Pump & Motor						*Wt.
		SIZE	Α	A 1	В	B1	D	Н	W1	(lbs.)
NK2-15	2	3"	9 7/16	7 3/8	21 7/8	18 5/8	9 7/16	24 1/2	3 1/4	63.5
NK3-22	3	3"	9 7/16	7 3/8	21 7/8	18 5/8	9 7/16	24 1/2	3 1/4	64

DIMENSIONS:METRIC (mm)

* Excluding Cable

DIMENSIONS:METRIC (MM)										
Model	kW	NOM.		Pump & Motor						*Wt.
		SIZE	Α	A1	В	B1	D	Н	W1	(kg)
NK2-15	1.5	80	240	188	555	473	240	623	80	28.8
NK3-22	2.2	80	240	188	555	473	240	623	80	29.0

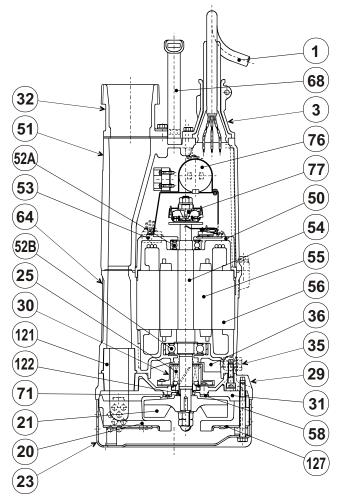
12 SEC-NK-01



NK - SERIES SEMI-VORTEX - DEWATERING PUMPS

SECTIONAL VIEW

NK2-15



ITEM#	DESCRIPTION	MAIN MATERIAL / NOTE	RELATED ASTM, AISI CODE	RELATED EN CODE	Q'TY
1	Power Cable	Chloroprene Sheath AWG12/3-32ft			1
3	Stuffing Box	Aluminium Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
20	Pump Casing	Butadiene Rubber + Natural Rubber			1
21	Impeller	Ductile Cast Iron	A536 100-70-03	EN 1563 GJS-700-2	1
23	Suction Strainer	Steel (Cold Rolled)	A109/A1008	EN 10130	1
25	Mechanical Seal	Silicon Carbide / H-20T			1
30	Oil Lifter	PBT Plastic w/(GF+MD)40			1
29	Oil Casing	Aluminium Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
31	Wear Ring	Butadiene Rubber			1
32	Discharge Connection	Cast Iron / NPT 3"	A48M Class30B	EN 1561 GJL-200	1
35	Oil Plug	Stainless Steel	S 30400	1.4301	1
36	Lubricant	Turbine Oil ISO VG32 or SAE 10W-20			
50	Motor Bracket	Aluminium Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
51	Motor Head Cover	Aluminium Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
52A	Upper Bearing	#6204ZZC3			1
52B	Lower Bearing	#6305ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	S 40300	1.4000	1
55	Rotor				1
56	Stator				1
58	Protection Plate				1
64	Motor Housing	Aluminium Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
68	Handle	Steel (Cold Rolled) + NBR Rubber	A109/A1008	EN 10130	1
71	Shaft Sleeve	Stainless Steel	S 30400	1.4301	1
76	Capacitor				1
77	Centrifugal Switch				1
121	Duct Sleeve	Styrene Butadiene Rubber			1
122	V-Ring	Nitrile Butadiene Rubber			1
127	Fixing Plate	Steel (Cold Rolled)	A109/A1008	EN 10130	1

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NK - SERIES SEMI-VORTEX - DEWATERING PUMPS

SAMPLE SPECIFICATIONS

	130KOMI 1 OMI	SEMI-VORTEX - DEWATERING PUMPS	SPECIFICATIONS
1. 50	OPE OF SUPPLY -		
pu de the	mp(s) shall be designed t signed so that the sha	MI Model Submersible Pump(s). delivering GPM (m³/min) at Fe o pump waste water, without damage during operation ft power required (BHP)/(kW) shall not exceed the motor of the pump performance curve. Pump(s) shall be of the f	n. The pump(s) shall be rated output throughou
2. M	IATERIALS OF CONST	RUCTION -	
Mo pu sh	otor frame shall be alumin mpage shall be protecte all be furnished with	s of the pumping unit(s) shall be as follows: Pump casing um alloy die casting. Internal and external surfaces cord by a fused polymer coating. All exposed fasteners shall "NPT discharge connector. Impellers shall be of the med with back pump out vanes and shall be slip fit to the shall be slip	ning into contact with the be stainless steel. All units nulti-vane, ductile cast iron
3. M	IECHANICAL SEAL -		
rur bot pos cor 13	nning in a separate oil filled ttom seal faces and the flu sitive lubrication of the top nsume any additional elect	with a dual inside mechanical shaft seal located completed chamber and further protected by an exclusionary oil and being pumped. The oil chamber shall be fitted with a part of the standard oil lead that is made in the standard oil lead to proceed the standard oil that is a process of the standard oil standard power. Mechanical seals shall be rated to preclude the standard oil to be stainless steel.	seal located between the device that shall provide evel). The device shall no he incursion of water up to
4. M	IOTOR-		
fac bui wit ten	sign Type B equivalent. Itor and shall be rated for It in thermal and over an h a replaceable stainles: nperature ball bearings, w	Hp.,kW.,V., 60 Hz., 1 Phase an Motor(s) shall be rated atfull load amps. Motor(s r 10 starts per hour. Motor(s) shall be air filled, copper wo neerage protection for each winding. Motor shaft shall be steel shaft sleeve and shall be supported by two per ith a B-10 life rating at best efficiency point of 60,000 ho shielded, C3, deep groove type ball bearing.	s) shall have a 1.15 service ound, class B insulated with e 403 stainless steel, fitted omanently lubricated, high
5. P	OWER CABLE AND CA	ABLE ENTRANCE -	
rep an ca	placeable utilizing standar d a combination three way ble entrance assembly sh	nall be suitable for submersible pump applications. The d submersible pump cable. The cable entrance shall incomechanical compression seal with a fatigue reducing / the fall contain an anti-wicking block to eliminate water incurbower cable be accidentally damaged.	orporate built in strain relie ermal expansion boot. The