



TSURUMI PUMP

NK 1-phase
50Hz

Compact - single phase - 2,2kW
- for professional use

Generally applicable highgrade pump that can
be used efficiently in draining in civil engineering
through to deepwell applications.
Maximum depth of submersion 25m.





Top Discharge

Pumped water cools the motor and discharges as illustrated. The motor can be cooled even when pumping a small amount of water. The top discharge arrangement allows access into areas with space limitations.



Efficient motor cooling

Slim line design with a top discharge offers economy of space. There is efficient motor cooling through a side flow channel.

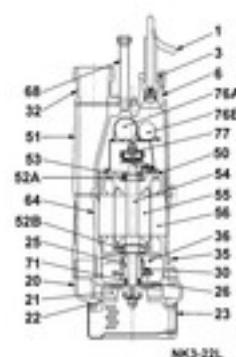


Increased water-pressure resistance

An newly developed mechanical seal endures water pressure of up to 2,5 kgf/cm². This makes the pumps usable at greater depth, such as in deep wells, to say nothing of use at general construction sites.

Components:

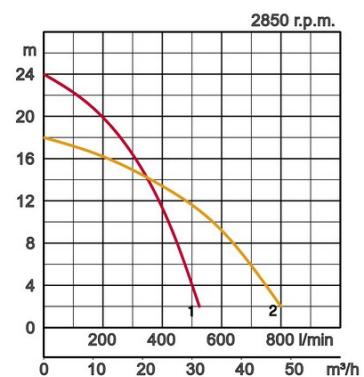
001	Cable
003	Gland
020	Pump casing
021	Impeller
023	Strainer
025	Mechanical seal
029	Oil casing
030	Oil lifter
031	Wear plate
032	Outlet
035	Oil plug
036	Lubricant
050	Motor cover
051	Head cover
052A	Upper bearing
052B	Lower bearing
053	Motor protector
054	Shaft
055	Rotor
056	Stator
058	Washer
064	Motor casing
068	Handle
071	Shaft sleeve
076A	Condensor
076B	Condensor
077	Centrifugal switch
121	Packing
122	V-ring
127	Fixing plate



Specifications:

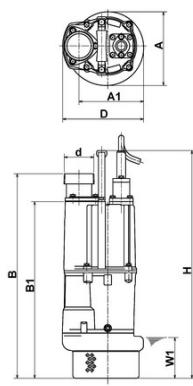
Model	Colour code curve	Bore mm	Motor output kW	Rated current A	Head max. m	Capacity max. l/min	Dry weight kg w/o cable	Max. solid handling ø mm	Pressure resistance max. m	Cable length m
NK4-22	1	50	2,2	14,8	24,0	525	29,0	6	25	20
NK3-22L	2	80	2,2	14,5	18,0	800	40,0	6	25	20

ø Discharge bore mm	50,80		
Pumping Fluid	Temperature	0-40°C	
	Type of Fluid	Spring water, Rain water, Ground water, Sand carrying water	
Pump	Components	Impeller	Semi-Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Ductile iron casting EN-GJS-700-2, Chromium iron casting
		Casing	BR+natural rubber, Grey iron casting EN-GJL-200
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles	Induction motor, 2 poles, IP68	
	Lubrication	Turbine oil (ISO VG32)	
	Phase / Voltage	Single phase 230V / 50Hz	
	Insulation	Insulation class F, Insulation class B	
	Motor Protector (built-in)	Circle thermal cut-out	
	Material	Casing	Aluminium die casting
		Shaft	Stainless steel EN-X6Cr13, Stainless steel EN-X30Cr13
		Cable	Rubber, H07RN-F
Discharge Connection		Threaded flange/Hose coupling	



Dimensions in mm:

Model	d	A	A1	B	B1	D	H	W1
NK4-22	50	240	194	546	464	243	614	80
NK3-22L	80	235	191	601	519	216	669	120



W1: lowest running water level

In the event of abrasive and corrosive utilization, stronger wear and tear will take place naturally in certain components. In this regard, please pay attention to our website www.tsurumi.eu/english/applications.htm.



Contributing to World-wide Prosperity and Understanding through Worker- and Environment-friendly Production.

Designed for increased productivity through fully integrated streamlined production systems, Tsurumi's factory in Kyoto (Japan) features a production capacity of a full 1 million pumps per year. Large-scale modern R&D facilities offer optimum conditions for experimenting and testing of even super-large pumps and for developing new products to expand the possibilities and applications of pumps. To provide optimum conditions for our main asset, our workers, as well as for the environment, special emphasis is placed on optimized working conditions with airconditioning, minimized dust and exhaust gas emission, comprehensive recycling and waste recovery.

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We reserve the right to change specifications and designs herein for improvement without prior notice. Our pumps are for professional use only. In the event that Tsurumi (Europe) GmbH have, in exceptional cases taken over, a manufacturer's warranty, this entitles the enduser to assert remedy free of charge against Tsurumi (Europe) GmbH due to any defect to the product occurring during the guarantee period (see below), also then when the warranty claims against the seller do not or no longer exist. In the event of malfunction, which is attributable to the improper handling by the enduser, no guarantee claim shall arise. Further claims shall not result from the warranty, unless if something to the contrary has explicitly been determined. The decision as to whether remedy is effected by way of replacement or repair shall be at the choice of Tsurumi (Europe) GmbH. The claims shall be time barred after a period of three months after expiry of the guarantee period, however, not before expiry of the warranty period which is valid towards the seller. In the event of doubt, the warranty period shall correspond with the warranty period which is valid between the end-user and his seller.



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