

NK KTV KTVE KTZ KRS GPN NKZ LH GH



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Thank you for having selected a Tsurumi submersible pump. For full benefit of this equipment, you should read, before use, the following points which are necessary for safety and reliability anyway. The table of contents guides you to the respective warnings and instructions.

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Applications

These instructions apply to the submersible pumps specified on the cover. They are intended for use with periodic maintenance, under conditions approved by a competent installation technician, in water of up to 40°C, with solids or nonflammable liquids compatible with cast iron, nitrile rubber and the other materials, without the mixture exceeding a viscosity of 10 cp (m pa+s) . During use, discharge conduit and cabling should be touched only if need be, and the water absolutely not. The area should be accessible to competent maintenance technicians only, to the absolute exclusion of children and the general public. The pumps conform to the relevant directives of the EU.

CAUTION

The pump must not be permanently installed in swimming pools or fountains if the installation area can be flooded. DANGERI

The pump must not be used in an explosive or flammable environment or for pumping flammable liquids.

CAUTION

The pump must not be run if it has been partially dismantled

To avoid motor overload, the following content of sand or stony matter in water, and the following density, should not be exceeded (data of other types upon request)

maximum	contin	nuously	interm	nittently
	g/litre	density	g/litre	density
KTV, KTZ, NK, KRS, LH, LH-W, GH-311W	10	1,02	20	1,05
KTV2-50	40	1,1	60	1,15
KTV2-80	80	1,2	100	1,25
KRS2-80/100/150	100	1,25	120	1,3

Product Description

See table for technical data; see definitions of the icons used, below. Individual performance graphs, dimension diagrams and any other data wanted for proper selection and installation will be gladly provided upon request by the local Tsurumi agent.

The significance of the text in the table (appendix) is as follows:



(maximum)



=Dry weight (without cable)



The pumps should not be used in an atmosphere that could become explosive nor in water that might contain traces of flammable liquid.

andling and Storage

Installation

The pump can be transported and stored either vertically or horizontally. Make sure that it is securely lashed and cannot roll



CAUTION Always lift the pump by the lifting handle - never by the motor cable or hose.

The time between delivery and the first hour of pumping is extremely hazardous. Care need be taken not to crush, kink or pull the fragile cable and not to break the hard but brittle cast iron or endanger a bystander. No water should enter the open end of the cable during handling. CAUTION

The pump must always rest on a firm surface so that it will not overturn. This applies to all handling, transport, testing and installation.

Store in a dry place to avoid corrosion by damp air inside the pump. The pump should first be rinsed if a corrosive mixture has been pumped. Rinsing with water mixed with cutting oil can be of some help if no dry storage is available.

CAUTION

The lifting tackle must always be designed to suit the pump weight. See under the heading "Product description".

Safety measures

In order to reduce the risk of accidents during service and installation work, take extreme care and bear in mind the risk of electrical accidents.

Only a competent electrician should be allowed to work on the electrical circuit, since only he knows the dangers involved and the regulations.

Do not connect the power supply if any part of the pump or its installation has not been completed and inspected, or if anyone is touching the water.

Installation:

If the pressure at the pump outlet is very low, say less than 1 bar, 1kg/cm² or 10 m H₂O (water column), layflat hose is used nearly exclusively. Folds in the hose can reduce or stop the flow from the pump. Using spiral reinforced hose at least for the first 5m or so and to go over a possible wall or edge, is an improvement, even for higher pressures. Better to use layflat hose only in straight lengths.

If the pressure at the pump outlet is high and/or hose diameter large, loosening or rupture of a hose can result in violent movement or flooding. With large hoses (8" to 12"), the weight of water, stiffening when (even under slight) pressure and axial force of the water combine to make for unreliability unless expert attention is given to selection and erection. Rigid lightweight quick-couple piping and bends, available on the market up to 12 ", lessen the risk.



Lifting:

Every pump needs a stout lifting rope. Its end must remain accessible under all circumstances

Cable:

The cable and its possible watertight connection and extension cable must reach to a level beyond reach of flooding. An electrician can extend a cable and make the splice waterproof, if he is experienced and has the proper 3M or equivalent kit. Replacement of the cable, in a workshop only, is always preferable.

Voltage loss due to underrated cabling between power source and pump, is by far the most common cause of motor overload.

Only a competent electrician should be allowed to work on the electrical circuit. since only he knows the dangers involved and the regulations to be followed.

Before switching on:

Do not connect the power supply if any part of the pump or its installation has not been completed and inspected, or if anyone is touching the water.

Two additional hazards for the cable are snagging whilst the pump is being lowered, and crushing by vehicle tires or tracks. Transport is also a potential source of change.

Electrical Connections

The pump must be connected to terminals or starting equipment installed at a level at which it cannot be flooded.

All electrical work must be carried out by an authorized electrician Only open a motor at a workshop. All measurements must be made at the free end of the cable



CAUTION

All electrical equipment must always be earthed (grounded). this applies both to the pump and to any monitoring equipment.

Improper wiring can lead to current leakage, electrical shock or fire. Be sure to use a ground leakage breaker and an overcurrent protector (or breaker) to prevent damage to the pump that may lead to electrical shock. Imperfect grounding can cause the pump to be put out of operation by electro-galvanic corrosion very quickly.



CAUTION!

The electrical installations must conform to national and local regulations.

Check that the mains voltage, frequency, starting equipment and method agree with the particulars stamped on the motor rating plate.

Rated Frequency must be within ±1Hz, and rated voltage within ±5%, of the power supply actual values. Check that the thermal overload relays are set to the pump's rated ampere draw and that they are correctly connected.

Connection of stator and motor conductors

If the pump is not fitted with a connector, please contact your Tsurumi dealer. To enable the correct connections to be made, the number of conductors, any monitoring equipment and the method of starting (see name plate) must be known

NOTE

If a plug and socket are used, the grounding lead should be longer than the phases to ensure that the other leads will, in case of a strong pull, be torn first.

CAUTION 4

Before connecting the cabtyre cable to the terminal board, make sure that the power supply (i.e. circuit breaker) is properly disconnected. Failure to do so may lead to electrical shock, short, or injury caused by the unintended starting of the pump.



If a cable is damaged, it must always be replaced.

For connecting the cables correctly to the terminal board please keep to the diagramm indicated in the table in the appendix

Cabtyre cable

If one or more extension cables are used, they may need to be of larger section than the pump cable, according to length and possible other loads. A cable of insufficient section results in loss of voltage and hence overheating of motor and cable, which may lead to repeated motor stoppage, unreliability, shortcircuit, fire, current leakage and electric shock. So does a damaged or unsecurely wired cable, the more so if it is submerged. No attempt should be made to replace or splice the pump cable, or open the motor, outside of a suitably manned workshop. Always protect the cable against pulling, crushing, grazing and kinking, as the copper conductors are fragile and must remain insulated to avoid lack of voltage, shortcircuiting or electric shock. Apply no load to a cable that is lying in a roll, as a peak voltage can result, high enough to burn through the insulation.

Operation

Before Starting:

Check that all persons concerned agree that all verifications have been completed. Check that all bolts are tight and the pump's weight is supported, the discharge conduit has been connected up, nobody is touching the water nor is unnecessarily near the conduit or switchgear. Be prepared to stop at once.



CAUTION!

The starting jerk may be violent. Don't hold the pump handle when checking the direction of rotation. Make sure that the pump is firmly supported and

The pump will jerk anti-clockwise when viewed from above, indicating that it is running clockwise. If not, two of the three phases U, V, W should be transposed with care by an electrician at the point of connection of pump cable to starter.

In the case of star delta please ask your Tsurumi dealer



person.

CAUTION Reversal of the direction of rotation on a plug that has no phase transposing device may be done only by an authorized

CAUTION!

If the built-in motor protection has tripped, the pump will stop but will restart automatically when it has cooled down. NEVER open the motor to make measurements, this can be done at the free end of the cable.

WARNING



Never insert your hand or any other object into the inlet opening on the underside of the pump casing when the pump is connected to the power supply.

Before inspecting the pump casing, check that the pump has been isolated from the power supply and cannot be energized.

Service and Maintenance



CAUTION

Before any work is started, check that the pump is isolated from the power supply and cannot be energized.

Note

In the appendix is the sectional drawing of a model of the KTZ-series that is representative for the majority of our pumps.

Due to the large number of different models we have to ask you to contact your Tsurumi dealer if you need a parts list or a drawing of a certain model

If the pump will not be operated for a long period of time, pull the pump up, allow it to dry, and store it indoors.

If the pump remains immersed in water, operate the pump on a regular basis (i.e. once a week) to prevent the impeller from seizing due to rust

conduit or switch gear and avoid contact with the water. In one application, a pump can be under constant risk, and even with frequent attention may have a short life. In another application a pump can run for years without any maintenance at all. Recommendations as to intervals, need interpretation, with the most hazardous characteristic in mind. At least superficial periodic inspection is needed in order to maintain a certain level of reliability and safety

Interval	Ins	pection Item
Monthly	1. Measuring insulation resistance	Insulation resistance reference value = 20M Ohm NOTE: The motor must be inspected if the insulation resistance is considerably lower than that obtained during the last inspection
	2. Measuring the loaded current	To be within the rated current
	3. Measuring the power supply voltage	Power supply voltage tolerance=±5% of rated voltage
	4. Inspecting the impeller	If the perfomance level has decreased considerably, the impeller may be worn.
Once every 2 to 5 years	Overhaul	The pump must be overhauled even if the pump appears nomal during operation. The pump may need to be overhauled earlier if it is used continuously or repeatedly. NOTE: Contact your Tsurumi-dealer to overhaul the pump.
Periodical inspection and replacement of lubricant	KTV2-50, KRS2-50/80/100: Inspection: Every 2000 hours of running time or e Changing interval: Every 4000 hours of running til	very 6 months, whichever comes first me or every 12 months , whichever comes first.
	Other models: Inspection: Every 3000 hours of running time or e Changing Interval: Every 4000 hours of running ti	very 6 months, whichever comes first.

Chokina:

Access of the water to the pump and apparent discharge capacity obviously need to be checked as often as experience dictates. Suspending the pump at the ideal level, if need be from a raft, is the main thing. Basically, the strainer should be free and if the pump is meant to remove water it should not carry more sand and pebbles than necessary.

The inlet should be protected from solids, if occurring in sufficient quantity to block the holes of the strainer, preventing flow. A cage, pierced drum or mesh can help. Flow can in rare cases also be stopped by quantities of small stringy vegetal matter wrapping itself around the impeller blades

Sand wears out the suction cover (wear plate) and shaft seal of any pump. This wear is roughly proportional to the square of the pressure, so it can be worth while using an extra large diameter delivery hose or pipe; very rarely will this lead to settling of sand or pebbles unless high concentration, an obstructed strainer, worm impeller, increased head or a constricted delivery conduit have resulted in diminished flow. If the pump is to remove water, often it can be placed on a raised object or suspended from masonry, piles or an improvised raft. If a pump buries itself in earth, or is buried by a landslide, it can be ruined in minutes,

Generating Set:

Hz to be within ±1 Hz, and voltage within ±5%, may also need to be checked frequently, if power is provided by a generating set. The lighter the generating set, the higher the risk of erratic voltage and wrong frequency.

Insulation Check:

Less obvious than oil inspection but equally valuable, is a periodic check of insulation value between the pump cable's earth lead and the other leads, and between the other leads, by means of an insulation tester. This value, well over 20 M Ohm when the pump is new or reconditioned, should be at least 10 M Ohm when the pump and its cable have been in the water for a long time. If it is down to 10M Ohm, repair in a workshop is urgently needed. It is useful to keep a record of measurements of this insulation value, and of ampere draw if possible, over the years, so as to notice a steep decline of the ohm value before a short occurs in the motor winding. Decreased ampere draw indicates impeller wear.

On workshop inspection, if it is found that the cable is at fault, it should not be re-used, even if 30 M Ohm insulation can be restored. If the motor is at fault, the winding specialist can opt for ovendrying and revarnishing under vacuum, or in a favourable case drying only. In the latter case, dry at no more than 60°C with motor protector still fitted or at not more than 105°C with motor protector removed. In case of oven drying, insulation should be higher than 5 M Ohm when hot or 20 M Ohm when cooled down.

OIL

Replace the oil also if it is slightly greyish or contains a droplet of water. Ensure that electric power cannot be accidentally applied to the pump. Lay the pump on its side, remove the plug, holding a piece of cloth over it to prevent possible spraying. If the oil is greyish or contains water drops or dust, or if there is less than 80% of the recommended quantity left, then measure carefully at the cable's end (never open the motor outside a workshop) the ohm resistance between the leads and replace shaft seal to avoid humidity getting into the motor and shorting the windings. Use turbine oil (ISO VG32).

Use the quantity specified in the specification table. Dispose of old oil in accordance with local regulations. Carefully check the packing (gasket) of the filling plug and replace.

Remove any debris attached to the pump's outer surface, and wash the pump with tap water. Pay particular attention to the impeller area, and completely remove any debris from the impeller.

Verify that the paint is not peeled, that there is no damage, and that the bolts and nuts have not loosened. If the paint has peeled, allow the pump to dry and apply touch-up paint

WARNING

Never insert your hand or any other object into the inlet opening on the underside of the pump casing when the pump is connected to the power supply.

Before inspecting the pump casing, check that the pump has been isolated from the power supply and cannot be energized. Make sure that the pump is completely reassembled before putting into

operation again. Take care that bystanders keep a safe distance to the



CAUTION

In the event of inward leakage, the oil housing may be pressurized. When removing the oil plug, hold a piece of cloth over it to prevent oil from splashing.

NOTE

Old oil should be entrusted to an oil disposal company in accordance with local regulations.

The gasket and the O-ring for the oil filler plug must be replaced with a new part at each oil inspection and change.

Bearing Grease (only LH with more than 55kW):

Remove grease plug {55-75kW (PT 1/8)}, {90-110kW (M12 screw)} and pour in grease according to the table and drawing below. LH pumps with 90-110kw have an upper and lower bearing, Upper grease plug PT1/4, lower grease plug as above.

Note: Replenishment period is 3000 hours. However it may vary according to operating conditions.

Model	kind of grease	Initial quantity	Replenishmen
LH855 LH675 LH875	e.g. Multemp LRL3 (Kyodo)	100g	50g
LH690 LH890	e.g. Multi Knock Delux Grease (Nisseki)	100g	30g
LH6110 LH8110		200g	60g

Bearing Bearing Housing Grease Plug-O-Ring-17

CAUTION!

yourself on them.

Replacing the impeller

CAUTION!

CAUTION!

before inspecting the pump.

Before disassembling and reassembling the pump, be sure that the power supply is disconnected, and remove the cabtyre cable from the terminal board. To prevent serious accidents, do not perform a conduction test during disassembly and reassembly.

WARNING

Never insert your hand or any other object into the inlet opening on the underside of the pump casing when the pump is connected to the power supply.

Before inspecting the pump casing, check that the pump has been isolated from the power supply and cannot be energized.

To prevent serious accidents, disconnect the power supply

Make sure that the pump is completely reassembled before putting into operation again. Take care that bystanders keep a safe distance and avoid contact with the water.

CAUTION! Be sure to perform a trial operation when starting the pump after a reassembly. If the pump was assembled improperly, it may lead to abnormal operation, electrical shock, or wate

A worn impeller often has sharp edges. Take care not to cut

damage. Removal of the suction cover (wear plate) and especially removal of the impeller, and even more so the shaft sealing, must be left to a mechanic. Show him the sectional view.

If the pump has a strange smell or appearance, have it cleaned professionally before the mechanic touches it.

When reassembling, the mechanic will turn the impeller by hand to check that it turns freely and that there is no ticking or grating noise from a bearing. Impellers that are not of the vortex type, have a clearance with respect to the suction cover (wear plate) of about 0,3 to 0,5 mm when new or repaired.

Trouble shooti



Read this Operation Manual carefully before requesting repair. After re-inspecting the pump, if it does not operate normally, contact your Tsurumi-dealer.

Pump fails to start	 Pump is new or has been repaired and tested Check that voltage applied agree with rating plate. Check at pump cable free end (never open motor) insulation value of earth lead (over 20M Ohm), and continuity of winding. On three phase motor check whether ohm values of three windings are within ±10%. Pump has been satisfactorily in use Same as above except that also impeller needs to be checked (stone, debris, rust between impeller blades and suction cover after long disuse).
Pump starts but stops immediately, causing the motor protector to actuate	 Motor windings or cable damaged. Do not open motor. Check as above. Impeller blocked or choked. If pump is new, wrong voltage or frequency. Voltage too low (most common cause); check supply voltage under load. If voltage is from diesel generator, inexact frequency. Wrong direction of rotation. Liquid of too high viscosity or density. Wrong setting of thermal overload unit.
The pump's head and pumping volume is lower	 Wrong direction of rotation. Piping resistance too high. Impeller worn, partially choked or severely narrowed by hard deposits. Strainer or inlet blocked. Pump draws air, or liquid is partly volatile or contains high level of gas in solution.
The pump generates noise or vibration	 Wrong direction or rotation. Solid object (stone, etc.) in volute. Impeller severely damaged, or bearing damaged. Repair at once. Pump lying on its side and drawing a little air. High wear rate likely.

Description of parts: (see exploded view in appendix)

No.	Part Name	No.	Part Name	No.	Part Name
1	Hexagonal bolt	12	Hexagonal bolt	23	Impelier nut
2	Spring washer	13	Shaft sleeve	24	Suction cover packing (gasket
3	Mechanical seal	14	Pump casing	25	Suction cover
4	Oil ring	15	Spring washer	26	Spring washer
5	Rounded head screw	16	Hexagonal bolt	27	Hexagonal bolt
6	O-ring	17	O-ring	28	Spring washer
7	Packing (Gasket)	18	Labyrinth ring	29	Stud bolt
8	Oil casing	19	Impeller adjusting washer	30	Strainer
9	Packing (Gasket)	20	Impeller	31	Bottom plate
10	Oil plug	21	Impeller thread protective cover	32	Spring washer
11	Spring washer	22	Hexagonal nut	33	Hexagonal bolt

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 | 2000 | 00 | | 010,0 | |
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| | GH-311W | 11 | 13,6 | 2850 | 21 | - | 122 | - | and the second state of th | - | 1680 | H-30T | 50 | 167 | 380 | 380 | 838 | 660 | 80,0 | 11 |

50 Hz	P ₂	P ₁	C		Ø	Im [/	ax N		[no./mm²]	ZOILY	0			_1	2 [mm	3	Q _{max}	H _{max}	Palale
	[kW]	[kvv	[rpm]	400V	230V	400V	230V	400V	230V	[mi]	C.	[m H ₂ 0]	[kg]	A	B	IC	[l/min]	[m]	-
LH615	15	18,7	2850	27,5	-	169,5	-	H07RN-F 4Cx6mm ²	-	3850	H-30T	50	213	330	330	1098	2400	52.0	11
LH619	19	21,5	2850	34,0	-	249.0	-	H07RN-F 4Cx10mm ²	-	6900	H-35T	50	350	420	420	1473	4300	42.0	11
LH422	22	25,6	2850	41,0	-	288,5		H07RN-F 4Cx10mm ²	-	6900	H-35T	50	350	420	420	1402	2400	66.0	11
LH622	22	25,6	2850	41,0	-	288,5	-	H07RN-F 4Cx10mm*	-	6900	H-35T	50	360	420	420	1473	3700	54.0	11
LH430	30	33,6	2850	53,0	-	385,0	-	2PNCTF9Cx22mm ²	-	6900	H-35T	50	355	420	420	1402	2300	80.0	111
LH637	37	42,0	2850	67,0	-	434,0	-	2PNCTF9Cx22mm ²	-	4800	HT-4550N	100	495	530	530	1448	2650	90.0	111
LH837	37	42,0	2850	67,0	-	434,0	-	2PNCTF9Cx22mm ²	-	4800	HT-4550N	100	495	530	530	1488	5400	51.0	111
LH645	45	50,8	2850	81,0	-	527,0	-	2PNCTF6Cx22mm ² /1Cx22mm ² /2Cx2mm ²	-	4800	HT-4550N	100	510	530	530	1488	2950	90,0	111
LH845	45	50,8	2850	81,0	-	527,0	-	2PNCTF6Cx22mm ^a /1Cx22mm ^a /2Cx2mm ^a	-	4800	HT-4550N	100	510	530	530	1488	5450	51,0	111
LH855	55	63,8	2850	99,0	-	704,0	-	2PNCTF6Cx30mm ² /1Cx22mm ² /3Cx2mm ²		6500	H-50T	50	810	550	550	1716	5700	70,0	IV
_H675	75	83,5	2850	130	-	1112	-	2PNCTF6Cx30mm ^a /1Cx22mm ^a /2Cx2mm ^a	1	6500	H-50T	50	850	550	550	1676	2450	132,0	IV
H875	75	83,5	2850	130	-	1112	-	2PNCTF6Cx30mm ² /1Cx22mm ² /2Cx2mm ²		6500	H-50T	50	850	550	550	1716	6500	70,0	IV
_H690	90	103	2850	170	-	1100	-	2PNCTF7Cx38mm [*] /2PNCTF3Cx38mm [*]		8000	H-50T	50	1100	592	592	1787	2500	150,0	V
_H890	90	103	2850	170	-	1100	-	2PNCTF7Cx38mm ² /2PNCTF3Cx38mm ²	-	8000	H-50T	50	1150	592	592	1787	6000	90,0	V
_H6110	110	124	2850	205	-	1260	-	2PNCTF7Cx38mm ² /2PNCTF3Cx38mm ²		8000	H-50T	50	1200	592	592	1787	3000	177,0	V
_H8110	110	124	2850	205	-	1260	-	2PNCTF7Cx38mm ² /2PNCTF3Cx38mm ²		8000	H-50T	50	1250	592	592	1787	6500	107,0	V



		_		A REAL PROPERTY AND INCOME.	A COLUMN TWO IS NOT	and the second second	ALC: NOT THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE OWNER OWNE OWNER OWNER OWNER OWNER OWNER OWNE OWNER OWNER OWNER OWNER				
		U1	V1	W1	U2	V2	W2	G	S1	S2	S3
		red	white	black	biack	red	white	Earth (green)	Protector Circuit (yellow)	Protector Circuit (yellow)	Leakage Detector (white)
		rot	weiß	schwarz	schwarz	rot	weiß	Erde (grün)	Schutzschalter (gelb)	Schutzschalter (gelb)	Lecksensor (weiß)
		rouge	blanc	noir	noir	rouge	blanc	Terre (vert)	Circuit de protection (jaune)	Circuit de protection (jaune)	Détecteur des fuites (blanc)
	-	TOSSO	bianco	nero	nero	rosso	bianco	Terra (verde)	Circuito di protezione (giallo)	Circuito di protezione (gialio)	rivelatore di perdite (bianco)
	U1V1W1U2V2W2 GS1S2S1	OIOI	blanco	negro	negro	rojo	blanco	Tierra (verde)	circuito protector (amarillo)	circuito protector (amarillo)	sonda detector (blanco)
	01 01 02 02 02 02 03 3	vermelho	branco	preto	preto	vermelho	branco	Terra (verde)	Circuito protector (amarelo)	Circuito protector (amarelo)	Detector de fugas (branco)
	<u> </u>	KÓKKIVO	άσπρο	μαύρο	μαύρο	KÓKKIVO	άσπρο	Γείωση (πράσινο)	Θερμική προστασία(κίτρινο)	Θερμική προστασία (κίτρινο)	Αντχνευτής υγρασίας (άσπρο)
		kirmizi	beyaz	siyah	siyah	karmizi	beyaz	Toprak (yesil)	Koruma şalteri (sarı)	Koruma salteri (sarı)	Sizinti algilayicisi (beyaz)
		baar	wit	zwart	zwart	rood	wit	massa (groen)	beveiligingsschakelaar (geel)	beveiligingsschakelaar (geel)	leksensor (wit)
		rød	hvit	svart	svart	rød	hvit	jord (grønn)	motorbeskyttelse krets (gul)	motorbeskyttelse krets (gul)	lekasie detektor (hvit)
		rød	hvid	sprt	sort	rød	hvid	jord (grøn)	Sikkerhedsafbryder (gul)	Sikkerhedsafbryder (gul)	Lækagesensor (hvid)
		bās	vit	svart	svart	röd	vit	Jord (grön)	Motorskydd (gul)	Motorskydd (gul)	Läckdetektor (vit)
		punainen	valkoinen	musta	musta	punainen	valkoinen	Maa (vihreä)	Moottorisnoja (keltainen)	Moottorisnoja (keltainen)	Vuodontunnistin (valkoinen)
		sarkans	balts	meins	meins	sarkans	balts	iezemėjums(zalia)	aizsardzibas coède (dzeitens)	aizsardzibas æéde (dzeitens)	Nopludes detektors (balts)
		punane	valge	must	must	punane	valge	Maa (roheline)	Kaitselüliti (kollane)	Kaitselüliti (kollane)	Lekkedetektor (valge)
		czerwony	biały	czarny	czarny	czerwony	biały	uziemienic(zielony)	wyłącnik bezpieczeństwa (żółty)	wyłącnik bezpieczeństwa (żółty)	czuinik szczelności (biały)
		piros	fehér	fekete	fekete	Diros	feher	föld (zöld)	védőkapcsoló (sárga)	védőkapcsoló (sárga)	szivárgásvédelem (fehér)
										vedokapcsoló (sarga)	
		U1	V1	W1	U2	V2	W2	G	S1	vedokapcsolo (sarga) S2	\$3
		U1 red	V1 white	W1 black	U2 black	V2 red	W2 white	G Earth (green)	S1 Protector Circuit (yellow)	S2 Protector Circuit (yellow)	S3 Leakage Detector (white)
		U1 red rot	V1 white weiß	W1 black schwarz	U2 black schwarz	V2 red rot	W2 white weiß	G Earth (green) Erde (grün)	S1 Protector Circuit (yellow) Schutzschalter (gelb)	Vedokapcsolo (sarga) S2 Protector Circuit (yellow) Schutzschalter (gelb)	S3 Leakage Detector (white) Lecksensor (weiß)
		U1 red rot rouge	V1 white weiß blanc	W1 black schwarz noir	U2 black schwarz noir	V2 red rot rouge	W2 white weiß blanc	G Earth (green) Erde (grün) Terre (vert)	S1 Protector Circuit (yellow) Schutzschalter (gelb) Circuit de protection (jaune)	Vedokapcsolo (sarga) S2 Protector Circuit (yellow) Schutzschalter (gelb) Circuit de protection (jaune)	S3 Leakage Detector (white) Lecksensor (weiß) Detecteur des fuites (blanc)
V		U1 red rot rouge rosso	V1 white weiß blanc bianco	W1 black schwarz noir nero	U2 black schwarz noir nero	V2 red rot rouge rosso	W2 white weiß blanc blanco	G Earth (green) Erde (grün) Terre (verd) Terra (verde)	S1 Protector Circuit (yellow) Schutzschalter (gelb) Circuit de protection (jaune) Circuito di protezione (giallo)	Vedokapcsolo (sarga) Schutzschafter (gelb) Circuit de protection (jaune) Circuit de protection (jaune)	S3 Leakage Detector (white) Lecksensor (weiß) Detecteur des fuites (blanc) rivelatore di perdite (blanco)
V		U1 red rot rouge rosso rojo	V1 white weiß blanc blanco blanco	W1 black schwarz noir nero negro	U2 black schwarz neir nero negro	V2 red rot rouge rosso rojo	W2 white weiß blanc blanco blanco	G Earth (green) Erde (grün) Terre (verd) Terra (verde) Tierra (verde)	S1 Protector Circuit (yellow) Schutzschafter (gelb) Circuit de protection (jaune) Circuito di protezione (giallo) Circuito protector (amanillo)	Vedokapcsoló (sarga) S2 Protector Circuit (yellow) Schutzschalter (gelb) Circuit de protection (jaune) Circuito protector (anarilio) circuito protector (anarilio)	S3 Leakage Detector (white) Lecksensor (weiß) Détecteur des fuites (blanco) rivelatore di perdite (blanco) sonda detector (blanco)
V		U1 red rot rosso rojo vermelho	V1 white weiß blanc blanco blanco blanco blanco	W1 black schwarz noir nero negro preto	U2 black schwarz neir nero negro preto	V2 red rot rosso rojo vermelho	W2 white weiß blanc blanco blanco blanco blanco	G Earth (green) Erde (grün) Terre (vert) Terra (verde) Tierra (verde) Terra (verde)	S1 Protector Circuit (yellow) Schutzschafter (gelb) Circuit de protection (jaune) Circuit o protector (amanilo) Circuito protector (amarilo) Circuito protector (amareio)	S2 Protector Circuit (yellow) Schutzschafter (gelb) Circuit & protection (jaune) Circuito of protection (jaune) Circuito protector (amarilio) Circuito protector (amarilio)	S3 Leakage Detector (white) Lecksensor (weiß) Détecteur des fuites (blanc) rivelatore di perdite (blanco) sonda detector (blanco) Detector de fugas (branco)
V		U1 red rot rosso rojo vermelho ĸóĸĸıvo	V1 white weiß blanc blanco blanco blanco blanco blanco blanco blanco	W1 black schwarz noir nero negro preto µaŭpo	U2 black schwarz neir nero negro preto µdůpo	V2 red rot rosso rojo vermetho ĸóĸĸuvo	W2 white weiß blanco blanco blanco blanco blanco blanco blanco	G Earth (green) Erde (grün) Terra (verde) Terra (verde) Terra (verde) Farra (verde) Folion (ripdowoj	S1 Protector Circuit (yellow) Schutzschalter (gelb) Circuit de protection (jaune) Circuito protector (amarilo) Circuito protector (amarilo) Circuito protector (amarilo) Depuxí npornocid(sípro)	S2 Protector Circuit (yellow) Schutzschafter (gelb) Circuit o protection (galo) Circuit o protection (galo) Circuit o protector (amarilo) Circuit o protector (amarilo) Circuit o protector (amarilo) Ocircuit o protector (amarilo) Ocircuit o protector (amarilo) Ocircuit o protector (amarilo)	S3 Leakage Detector (white) Lecksensor (weiß) Detecteur des fuites (blanc) invelatore di perdite (blanco) sondia detector (blanco) Detector de fugas (branco) Avgeurit, urgaolas (dongo)
V		U1 red rot rouge rojo vermelho kókkuvo kirmizi	V1 white weiß blanc blanco blanco branco άσπρο beyaz	W1 black schwarz neir negro preto preto siyah	U2 black schwarz nero negro preto µdupo siyah	V2 red rot rosso rojo vermelho kókiavo kirmizi	W2 white weiß blanc blanco blanco blanco branco compo beyaz	G Earth (green) Erde (grün) Terre (verd) Terra (verde) Terra (verde) Terra (verde) Terra (verde) Torrak (vesil)	S1 Protector Circuit (yellow) Schutzschalter (gelb) Circuit de protection (jaune) Circuito protector (giallo) Circuito protector (amarelo) Circuito protector (amarelo) Depust poortoold(stipeo) Koruma şalteri (şan)	S2 Protector Circuit (yellow) Schutzschafter (gelb) Circuit de protection (jaule) Circuit o protection (jaule) circuito protector (amarelo) Circuito protector (amarelo) Cepueri riporeofolój(ripeo) Koruma salteri (sar)	S3 Leakage Detector (white) Lecksensor (weiß) Détecteur des fuites (blanc) fivelatore di perdite (blanco) sonda detector (blanco) Detector de fugas (branco) Awgeurtis urgodios (borgo) Stantt algialycis (borgo)
V		U1 red rotge rojo vermelho kókkivo kirmizi ropd	V1 white blanc blanco blanco branco doπpo beyaz wit	W1 black schwarz neiro negro preto preto preto siyah zwart	U2 black schwarz nero negro preto µctúpo siyah zwart	V2 red rotge rojso rojo vermetho kókiavo kirmizi rood	W2 white weiß blanco blanco blanco branco branco branco aσπρο beyaz wit	G Earth (green) Erde (grûn) Terra (verde) Tierra (verde) Terra (verde) Torra (verde) Toprak (vesi) Toprak (groen)	S1 Protector Circuit (yellow) Schutzschäfter (gelb) Circuit de protection (jaune) Circuito di protezione (giallo) Circuito protector (amarilo) Circuito protector (amarilo) Circuito protector (amarilo) Koruma safteri (sari) beveilioinsschakelaar (gelt)	S2 Protector Circuit (yellow) Schutzschalter (gelb) Circuit & protection (jalle) Circuit o protection (jalle) Circuito protector (amarilio) Circuito protector (amarilio) Circuito protector (amarilio) Koruma salteri (sarı) koruma salteri (sarı)	S3 Leakage Detector (white) Lecksensor (weiß) Détecteur des fuites (blanc) rivelatore di perdite (blanco) sonda detector (blanco) Detector de fugas (branco) Awgeurtis, uypoolois (borgo) Siznito algilayoras (beyaz) Leksensor (wit)
V		U1 red rot rosso rojo vemelho kokkivo kirmizi rood rød	V1 white blanc blanco blanco blanco branco dompo bevaz wit hvit	W1 black schwarz noir negro preto preto preto siyah zwart svart	U2 black schwarz nero negro preto preto preto siyah zwart	V2 red rot rosso rojo vermelho κόκκανο kirmizi rood rød	W2 white weiß blanco blanco branco branco branco branco branco wit	G Erde (grün) Terre (verd) Tierra (verde) Tierra (verde) Terra (verde) Toprak (vesil) massa (groen) Jord (gränn)	S1 Protector Circuit (yellow) Schutzschafter (gelb) Circuit de protection (jaune) Circuito protector (amarilo) circuito protector (amarilo) Depusr) προπασία(«tipeo) Koruma şafteri (san) bevetligingsschakelaar (gel) motorbeskyttelse krets (gul)	S2 Protector Circuit (yellow) Schutzschafter (gelb) Circuit o protecton (galo) Circuit o protecton (galo) Circuito protector (amarilo) Circuito protector (amarilo) Circuito protector (amarilo) Circuito protector (amarilo) Depuisi nooraoia(s(nwo) Korruma satteri (sari) beveilianasschakelaar (gel) motorbes/vitelse krets (gul)	S3 Leakage Detector (white) Lecksensor (weiß) Détecteur des fuiles (blanc) Invelatore di perdite (blanco) Dotector de fugas (branco) Detector de fugas (branco) Sizntt algitavois (bevaz) Leksensor (wit) lekasje detektor (hvit)
V		U1 red rot rosso rojo vernelho kokkivo kirmizi rood rød rød	V1 white weiß blanco blanco blanco branco áompo beyaz wit hvit	W1 black schwarz neir negro preto µdiùpo siyah zwart svart sort	U2 black schwarz nero negro preto µctipo siyah zwart svart sort	V2 red rot rosso rojo vermetho krókravo kraz ropd rgd rgd	W2 white weiß blanco blanco branco branco branco branco torpo dorpo wit hvit	G Earth (green) Erde (grün) Terra (verde) Terra (verde) Terra (verde) Terra (verde) Toprak (vestil) massa (groen) jord (grøn) jord (grøn)	S1 Protector Circuit (yellow) Schutzschalter (gelb) Circuit de protection (jaule) Circuito protector (gallo) circuito protector (amarelo) Circuito protector (amarelo) Circuito protector (amarelo) Cepuer, poorneoidigitpeo Koruma şalteri (sar) beveiligingsschakelaar (gel) motorbeskyttielse krets (gul) Sikkerhedsafbyder (gul)	S2 Protector Circuit (yellow) Schutzschafter (gelb) Circuit de protection (jaune) Circuit od protection (jaune) Circuito protector (amarilio) Circuito protector (amarilio) Circuito protector (amarilio) Circuito protector (amarilio) Moruma salteri (sari) beveilioinosschakelasi (ged) motorbeskvitelse krets (gul)	S3 Leakage Detector (white) Lecksensor (weiß) Détecteur des fuites (blanco) sonda detector (blanco) Detector de fugas (branco) Awgeurtis urgodios (borgo) Sizniti algialycisi (beryaz) Leksensor (wit) Iakasje detaktor (hvit) Lækagesensor (hvid)
V		U1 red rot roige vermelho krókkivo kirmzi rød rød rød	V1 white blanc blanco blanco branco dompo beyaz wit hvit hvit vit	W1 black schwarz noir negro preto preto judúpo siyah zwart svart svart	U2 black schwarz neir negro preto µcu'po siyah zwart svart svart	V2 red rouge roige vermelho kókkavo kirmizi rood rød rød	W2 white weiß blanco blanco branco branco boyaz wit hvit hvit hvit	G Earth (green) Erde (grûn) Terra (verde) Terra (verde) Terra (verde) Toprak (vesii) massa (groen) jord (grøn) Jord (grøn)	S1 Protector Circuit (yellow) Schutzschafter (gelb) Circuit de protection (jaune) Circuito protector (amanilo) Circuito p	S2 Protector Circuit (yellow) Schutzschalter (gelb) Circuit de protection (gialo) Circuito protector (amarilio) Circuito protector (amarilio) Circuito protector (amarilio) Circuito protector (amarilio) Depuisti risponacia(strpio) Koruma salteri (sari) motorbeskvittelse krets (gul) Sikkerthedsafbryder (gul) Motorskvidt (mul)	S3 Leakage Detector (white) Lecksensor (weiß) Detecteur des fuites (blanc) rivelatore di perdite (blanco) Sonda detector (blanco) Detector de fugas (branco) Avgeurtig uypoolog; (borgo) Siznt algilayous (boyzo) Leksensor (wit) Leksensor (hvid) Läckdetektor (vit)
V		U1 red rotge rojo vermelho xóxkivo kirmzi rod rød rød rød rød gunainen	V1 white weiß blanco b	W1 black schwarz noir negro preto jreto jreto siyah zwart syart syart syart syart syart musta	U2 black schwarz neir negro preto preto preto siyah zwart syart svart svart svart nusta	V2 red rot rosso rojo vermelho kóxkuvo kirmizi rod rad rad rad rad gunainen	W2 white weiß blanco blanco blanco branco dompo beyaz wit hvit hvit valkoinen	G Earth (green) Terre (vert) Terra (verte) Terra (verte) Torra (verte) Torra (verte) Jord (grøn) Jord (grøn) Jord (grøn) Terra (vinres)	S1 Protector Circuit (yellow) Schutzschafter (gelb) Circuit de protection (jaune) Circuito protector (amarilo) Circuito protector (amarilo) Circuito protector (amarilo) Circuito protector (amarilo) Ropund protector (amarilo) Ropund protector (amarilo) Beveiliainsschakelaar (ord) motorbeskyttelse krets (oul) Sikkerhedsafbryder (oul) Motorskydd (qui) Motorskydd (qui)	S2 Protector Circuit (yellow) Schutzschalter (gelb) Circuit of protection (gane) Circuit of protection (gane) Circuit of protection (gane) Circuito protector (amarilo) Ocpund ripooraofa(k/pwo) Korruma şalteri (sari) beveiligniosschakelaar (gel) Motorskyktelse krets (gul) Sikkerhedsafbryddr (gul) Motorskyktel (sul) Mootrosinoja (kelfainen)	S3 Leakage Detector (white) Lecksensor (weiß) Détecteur des fuites (blanco) sonda detector (blanco) Detector de fugas (branco) Detector de fugas (branco) Sizniti algila vicis (beyaz) Leksensor (wit) Jeakage detektor (hvit) Läckdetektor (vit) Vuodoritunnistin (valkoinen)
V		U1 red rot rosso rojo vernelho końkowo końkowo krmaz rod rød rød rød rød rød rød rød rød rød	V1 white blanco blanco blanco branco dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo balts	W1 black schwarz nero preto µclupo siyah zwart svart svart svart musta meins	U2 black schwarz neiro negro preto preto preto preto siyah zwart svart svart svart svart musta meins	V2 red rot rosso rojo vermelho krókavo krmizi rood rod rod rod rod rod rod krad rod rod rod rod rod rod rod rod rod ro	W2 white blanco blanco blanco branco dorpo dorpo dorpo doryoz writ hvit hvit vakonen balts	G Earth (green) Terre (vert) Terra (verde) Terra (verde) Terra (verde) Toprak (vestil) massa (groen) jord (grøn) jord (grøn) Jord (grøn) Terra (vihrea) tezenejunaçaa	S1 Protector Circuit (yellow) Schutzschalter (gelb) Circuit de protection (jaule) Circuito protector (gallo) circuito protector (amarelo) Circuito protector (amarelo) Cerpueri protector (amarelo) Cerpueri protector (amarelo) Cerpueri protector (amarelo) Moterschalaar (sed) Sikkerhedsafbryder (gul) Motorskydd (gul) Motorskydd (gul) Mootborisnoja (keltainen) iszemeiums (zais)	S2 Protector Circuit (yellow) Schutzschafter (gelb) Circuito protecton (galo) Circuito protecton (galo) Circuito protector (amarilo) Circuito protector (amarelo) Circuito protector (amarelo) Koruma salteri (sarı) bevelönicoschakelar (gel) Motorskvdd (gul) Motorskvdd (gul) Mootorskvdd (gul)	S3 Leakage Detector (white) Lecksensor (weiß) Détecteur des fuites (blanco) sonda detector (blanco) Sonda detector (blanco) Detector de fugas (branco) Awgeuris urgodios (borgo) Siznit algialycis (beyaz) Leksensor (wit) lekasje detektor (viti) Läekagesensor (hvid) Läekdetektor (viti) Nopludes detektors (baits)
V		U1 red rotge rosso rojo vermelho kókkuvo kirmizi rød rød rød rød rød rød röd punane	V1 white blanc blanc blanc branco donpo branco donpo branco don don branco don don don don don don don don don do	W1 black schwarz nero preto judupo siyah zwart svart svart svart svart svart svart	U2 black schwarz nero preto preto preto preto preto siyah zwart svart svart svart svart svart svart	V2 red rotge rosso rojo vermelho kókkavo kirmizi rood rød rød röd gunainen sarkans punane	W2 white weiß blanco vit hvit valto	G Erde (grün) Terra (verde) Terra (verde) Terra (verde) Terra (verde) Terra (verde) Toprak (vesii) massa (groen) Jord (gränn) Jord (gränn) Jord (grön) Terra (vinrea) Maa (roheline)	S1 Protector Circuit (yellow) Schutzschäfter (gelb) Circuit de protection (jaune) Circuito di protector (amarilo) Circuito protector (amarilo) Koruma safteri (sar) Motorskvdd (qui) Motorskvdd (qui) Motorskvdd (kollane)	Schutzschaiter (gelb) Circuit (yellow) Schutzschaiter (gelb) Circuito di protezione (galo) Circuito protector (amarilio) circuito protector (amarilio) circuito protector (amarilio) Circuito protector (amarilio) Circuito protector (amarilio) Coruma salteri (san) beveilioinoschakelaar (gel) motorbeskvitelse krets (gul) Sikkerhedsafbryder (gul) Motorbiskvitelse krets (gul) Isterhedsafbryder (gul) Motorbiskvitelse krets (galo) Kartseluitti (kollane)	S3 Leakage Detector (white) Lecksensor (weiß) Detecteur des fuites (blanco) rivelatore di perdite (blanco) sonda detector (blanco) Detector de fugas (branco) Avgeurtig uypoolog (borgo) Simti dajlavcisi (bevaz) Leksensor (wit) Läskagesensor (hvid) Läskdetektor (vit) Vuodontunnistin (valkoinen) Noplüdes detektor (balts) Lekkedetektor (valge)
V		U1 red rot rosso rojo vernelho końkowo końkowo krmaz rod rød rød rød rød rød rød rød rød rød	V1 white blanco blanco blanco branco dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo dompo balts	W1 black schwarz neitro netro preto Jralupo siyah zwart syart svart svart svart svart musta meusta	U2 black schwarz neiro negro preto preto preto preto siyah zwart svart svart svart svart musta meins	V2 red rot rosso rojo vermelho krókavo krmizi rood rod rod rod rod rod rod krad rod rod rod rod rod rod rod rod rod ro	W2 white blanco blanco blanco branco dorpo dorpo dorpo doryoz writ hvit hvit vakonen balts	G Earth (green) Terre (vert) Terra (verde) Terra (verde) Terra (verde) Toprak (vestil) massa (groen) jord (grøn) jord (grøn) Jord (grøn) Terra (vihrea) tezenejunaçaa	S1 Protector Circuit (yellow) Schutzschäfter (gelb) Circuit de protection (jaune) Circuito di protector (amarilo) Circuito di protector (amarilo) Circuito prot	Schutzschaiter (gelb) Circuit (yellow) Schutzschaiter (gelb) Circuito di protezione (galo) Circuito protector (amarilio) circuito protector (amarilio) circuito protector (amarilio) Circuito protector (amarilio) Circuito protector (amarilio) Coruma salteri (san) beveilioinoschakelaar (gel) motorbeskvitelse krets (gul) Sikkerhedsafbryder (gul) Motorbiskvitelse krets (gul) Isterhedsafbryder (gul) Motorbiskvitelse krets (galo) Kartseluitti (kollane)	S3 Leakage Detector (white) Lecksensor (weiß) Détecteur des fuites (blanco) sonda detector (blanco) Sonda detector (blanco) Detector de fugas (branco) Awgeuris urgodios (borgo) Siznit algialycis (beyaz) Leksensor (wit) lekasje detektor (viti) Läekagesensor (hvid) Läekdetektor (viti) Nopludes detektors (baits)









We, Tsurumi Mfg. Co. Ltd., declare that our Pumps of KTV(E)-series, KTZ-series, KRS-series, NKZ-series, GH-series, LH-series and GPN-series, pump type and serial number shown on the name plate, are constructed in accordance with directives 98/37/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC (CE-Marking).

Wir, das Unternehmen Tsurumi Mfg. Co. Ltd., erklären hiermit verbindlich, daß die Pumpen unserer KTV(E)-Serie, KTZ-Serie, KRS-Serie, NKZ-Serie, GH-Serie, LH-Serie und GPN-Serie, Typbezeichnung und Seriennummer nach Typenschild, den EU-Vorschriften 98/37/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC (CE-Marke) entsprechen.

Nous soussignés Tsurumi Mfg. Co. Ltd., déclarons que nos pompes de la série KTV(E), KTZ, KRS, NKZ, GH, LH et GPN, dont le type et le numéro de série son indiqués sur la plaque signalétique sont conçues conformément aux directives 98/37/EEC, 91/368/CEE, 93/44/CEE, 93/68/CEE (label CEE).

La Tsurumi Mfg. Co. Ltd., dichiara che le proprie pompe serie KTV(E), serie KTZ, serie KRS, serie NKZ, serie GH, serie LH e serie GPN, il tipo di pompa e il numero di serie mostrato sulla targhetta del nome sono costruite in conformità alle direttive 98/37/EEC, 91/368/CEE, 93/44/CEE, 93/68/CEE (Marchio CE).

Nosotros, TUSURMI Mfg. Co. Ltd., declaramos que nuestras bombas KTV(E), KTZ, KRS, NKZ, GH, LH y GPN con el número de serie indicado en la placa característica, están fabricados de acuerdo con las directrices 98/37/EEC, 91/368/EEC, 93/44/EEC y 93/68/EEC.

Tsurumi Mfg. Co. Ltd., declara que, as nossas bombas das séries KTV(E), KTZ, KRS, NKZ, GH, LH e GPN, modelo da bomba e número de série, da chapa de características, são de acordo com as directivas 98/37/EEC, 91/368/CEE, 93/44/CEE, 93/48/CEE (Marca CE)

Εμείς, στην Tsurumi Mfg. Co. Ltd., δηλώνουμε ότι οι αντλίες μας των σειρών KTV(E), KTZ, KRS, NKZ, GH, LH, GPN με τον τύπο αντλίας και αριθμό σειράς που αναγράφεται στην πινακίδα, κατασκευάζονται σύμφωνα με τις κοινοτικές οδηγίες 98/37/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC (σήμα CE).

Biz, Tsurumi Mfg. Co. Ltd., bizim KTV(E), KTZ, KRS, NKZ, GH, LH ve GPN pompa modelerinin, isim plakasında pompa tipt ve seri numeralari gösterilmiştir, 98/37/EEC, 91/368/EEC, 93/68/EEC (CE Markası) 93/44/EEC kurallarına göre planlanıp çizilmiş olduğunu açıklıyoruz.

Wij, Tsurumi Mfg. Co. Ltd., verklaren hiermee dat de pompen van onze KTV(E)-serie , KTZ-serie, KRS-serie, NKZ-serie, GH-serie, LH-serie en GPN-serie typenummer en serienummer en fabricaatnummer volgens het typeplaatje, met de EU-voorschriften 98/37/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC (CE-merk) overeenkomen.

Vi, Tsurumi Mfg. Co. Ltd., erklærer at våre pumper i KTV(E)-serien, KTZ-serien, KRS-serien, NKZ-serien, GH-serien, LH-serien og GPN-serien, som alle har serienummer og pumpetype vist på merkeskiltet, er konstruert i overenstemmelse med direktivene 98/37/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC (CEmerking).

Vi, Tsurumi Mfg. Co. Ltd., erklærer, at vore pumper i serierne KTV(E), KTZ, KRS, NKZ-series, GH, LH og GPN, hvor pumpetype og serienummer er oplyst på navneskiltet, er konstrueret i overensstemmelse med direktiverne 98/37/EEC, 91/368/EEC, 93/44/EEC og 93/68/EEC (CE-mærkning).

VI, Tsurumi Mfg. Co. Ltd., förklarar att våra pumptyper KTV(E), KTZ, KRS, NKZ, GH, LH och GPN, vars pumptyp och tillverkningsnummer anges på typskylten, är konstruerade i enlighet med direktiven 98/37/EEC, 91/368/EEC, 93/44/EEC og 93/68/EEC (CE-märkning).

Me Tsurumi Mfg. Co. Ltd., vakuutamme täten, että pumpputyyppimme KTV(E), KTZ, KRS, NKZ, GH, LH ja GPN, joiden pumpputyyppi ja valmistusnumero on ilmoitettu tyyppikilvellä, on valmistettu direktiivien 98/37/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC (CE-merkki) vaatimusten mukaisesti.

Mès, Tsurumi Mfg. Co. Ltd., paziòojam, ka músu súkòi: sèrija KTV(E), sèrija KTZ, sèrija KRS, sèrija NKZ, sèrija GH, sèrija LH, sèrija GPN, un to sèrijas numuri, kuri norâditi uz datu plâksnitèm, atbilst direktivu 98/37/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC prasibâm (maræèjums CE).

Meie, Tsurumi Mfg. Co. Ltd., teatame, et meie KTV(E)-seeriate, KTZ-seeriate, KRS-seeriate, NKZ-seeriate, GH-seeriate, LH-seeriate ja GPN-seeriate pumbad, pumba tüüp ja seeria number ära näidatud nimesiidil, on konstrueeritud kooskõlas 98/37/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC (CE-märgistus) direktiividega.

My, przedsiębiorstwo Tsurumi Mfg. Co. Ltd., niniejszym wiążąco oświadczamy, że pompy naszej serii KTV(E), KTZ, KRS, NKZ, GH, LH, GPN odpowiadają oznakowaniu typu oraz numerowi seryjnemu wskazanemu na tabliczce znamionowej oraz odpowiadają przepisom Unii Europejskiej 98/37/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC (znak CE).

A Tsurumi Mfg. Co. Ltd., felelőssége tudatában kijelenti, hogy a KTV(E), KTZ, KRS, NKZ, GH, LH és GPN sorozatú szivattyúi, tipusmegnevezés és gyári szám a teljesítménytábla szerint, megfelelnek a 98/37/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC (CE-jel) számú EU-előirásoknak.

Kyoto, Japan October 1st, 2004 Tsurumi Manufacturing Co., Ltd.

H Nahamish

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