

CATALOGUE OF MANUAL PUMPING TECHNIQUE

For every garden
$t$


## ABOUT KOVOPLAST

## Kovoplast Chlumec nad Cidlinou, a.s. is a traditional manufacturer of cast iron pumps and pumps with a tradition for more than 70 years.

The production of manual pumping equipment takes place directly in the town of Chlumec nad Cidlinou. We supply complete hand pumps and pumps. As a matter of course is the wide range of spare parts for the pumping technology.

Our Czech product with a tradition will serve you for decades


Demonstration of the realization of a new well with a standard $T$ pump into the garden.

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## HOW TO CHOOSE A PUMP

Hand pumps can pump water from a depth of up to $\mathbf{3 0} \mathbf{~ m}$. Suction depth means distance from the top dead center of the piston (highest position of the piston) to the suction basket, which is always at least 30 cm from the bottom of the well. The suction depth can therefore be from 0 m to 30 m .
Nowadays, when periods without rainfall are lengthening and the water level in the well is falling lower than before, it is recommended to monitor the water level in the well. Sometimes just to replace the pump and suction line is not sufficient, but it is necessary to deepen the well.
The first thing you need to know to choose the right type of pump is the depth of the well.
The second indicator is the purpose you need the pump for. Whether you will use it for a free outflow of water (into a bucket or a watering can) or is it necessary to push the water somewhere (spraying the garden, water supply at the height). Pressure pumps and pumps - NP 75T, STANDARD T pumps and a two-cylinder LILA pump - are used to spray or push water to a remote location.
It is recommended to secure the hand cast iron pump sufficiently against frost before winter to prevent it from any detriment. Hand pumps and pumps with a piston in their sousing (spout stand) are best removed from the well.



- UP TO 30 m -


## WELL



# HAND PUMPS AND PUMPS FOR PUMPING UP TO 7 m 

Suitable for dug and excavated wells with a maximum depth of 7 meters

## HAND STAND PUMPS LOW - TYPE NP

These pumps have a working piston located in the pump body, thanks to which you can place them on the well cover, but also outside the well. They are designed for pumping service water without mechanical impurities with a temperature of up to $40^{\circ} \mathrm{C}$. The suction pipe can be metal or plastic, jumped by several elbows, but most importantly always well sealed.

## POSSIBILITIES OF USING NP HAND PUMPS

## NP 75

NP 75 LK211
NP 75 T NP 90



NP pumps have the possibility of turning the lever in the desired appearance of the pump on the well. Lever rotation is possible for all types of NP hand pumps, except NP LK 211.

Technical information table for NP hand pumps

| TYPE OF HAND PUMP NP | NP 75 | NP 75 <br> LK 211 | NP 75 <br> Nostal. | NP 75 T | NP 90 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Water flow rate (I/min) | 28 | 28 | 28 | 28 | 40 |
| Number of double strokes per minute | 40 | 40 | 40 | 40 | 40 |
| Maximum suction depth (m) | 7 | 7 | 7 | 7 | 7 |
| Inner diameter of the cylinder (mm) | 75 | 75 | 75 | 75 | 90 |
| Piston stroke (mm) | 160 | 160 | 160 | 160 | 160 |
| Discharge height $(m)$ | - | - | - | 10 | - |
| A (mm) | 680 | 650 | 680 | 740 | 735 |
| B (mm) | 237 | 237 | 237 | 237 | 250 |
| C (mm) | 320 | 320 | 320 | 320 | 325 |
| D (mm) | 134 | 134 | 134 | 134 | 156 |
| Connecting thread on pump plate G " | $5 / 4 "$ | $5 / 4 "$ | $5 / 4 "$ | $5 / 4 "$ | $6 / 4 "$ |
| Nipple thread on outlet G " | - | - | - | $1 "$ | - |
| Pump weight (kg) | 15,6 | 12,2 | 19,9 | 23,8 | 18,3 |

Dimensions of NP pumps


## Hand pump NP 75 ROUND FLANGE

There is a defrosting screw on the plate of the pump that you use for water discharge before the winter.
It is possible to purchase a NP 75 base with a height of 640 mm for the pump.


Colour design:
black / green


## Hand pump NP 75 SIDE FLANGE

Thanks to the side plate of the pump, you can anchor it to the wall at the required height.


Colour design:
green


## Hand pump NP 75 NOSTALGIC

Pump with ornaments that underline its nostalgic appearance.

There is a defrosting screw on the plate of the pump that you use for water discharge before the winter.
It is possible to purchase a base NP 75 - Nostalgic with a height of 640 mm for the pump, also with


Colour design:
black


Colour design:
green


## Hand pump NP 75 T

This is our smallest pressure hand pump, suitable for both free outflow of water and pressing up the water. Thanks to the pressure head, it manages to push water up to a height of 10 m above its working piston, which is located in its body.


## Pedestal NP 75

## Pedestal <br> NP 75 NOSTALGIC



Colour design:
black / green


Colour design:
black


The height of the pedestal is 640 mm . When using the base, remember to extend the suction line by its length.

## Hand pump NP 90 ROUND FLANGE

Pump plate without drain valve. It is not possible to purchase a base for the NP 90 pump. The transported amount of water is about 121 / min higher than the NP 75 pump.


## Hand stand pump HP 75 NOSTALGIC

The working piston is located directly in the pump housing. The body and the base are supplied as a whole and are decorated with ornaments for the nostalgic look of the pump. In order to be able to drain the pump completely and safely in winter, it is necessary to purchase a drainage device (cock, rod, clamp) that is not part of the pump.


## Technical information table Hand stand pump HP 75 Nostalgic

| TYPE OF HAND PUMP | HP $\mathbf{7 5}$ |
| :--- | :---: |
| BIG NOSTALGIC |  |
| Water flow rate | $28 \mathrm{I} / \mathrm{min}$ |
| Number of double strokes per minute | 40 |
| Maximum suction depth | 7 m |
| Inner diameter of the cylinder | 75 mm |
| Piston stroke | 160 mm |
| Connecting thread on pump plate G" | $5 / 4 \mathrm{~N}$ |
| Weight of the pump | 76 kg |

Colour design:
black


## Manual two-cylinder pump LILA 75

The two-cylinder single-acting pump LILA 75 can be installed in a very small space. It is suitable for both free outflow of water and pressing up the water. The pump consists of two working cylinders with a diameter of 75 mm driven by an adjustable lever.
The variable design of the pump allows a wide range of possibilities of its use - for example for pumping water in households of summer cottages, for watering and spraying gardens, etc.


## DESIGN OF A POSSIBLE USE OF THE PUMP LILA 75

Technical information table Two piston pump LILA

| TYPE OF HAND PUMP | LILA $\mathbf{7 5}$ |
| :--- | :---: |
| Amount of water transported - outflow | $40 \mathrm{I} / \mathrm{min}$ |
| Amount of water transported - pressing up | $30 \mathrm{I} / \mathrm{min}$ |
| Number of double strokes per minute - outflow | 40 |
| Number of double strokes per minute - <br> pressing up | 35 |
| Maximum suction depth | 7 m |
| Inside diameter of the cylinder | 75 mm |
| Piston stroke | 115 mm |
| Transport height | 20 m |
| Connecting thread G" suction and discharge <br> flanges | $5 / 4$ " |
| (DN32) |  |
| Weight of the pump | 20 kg |

CONTAINER FOR WATER


# HAND PUMPS AND PUMPS FOR PUMPING UP TO 30 m 

Suitable for dug and excavated wells with a maximum depth of $\mathbf{3 0}$ meters

## HAND STAND PUMP <br> STANDARD

STANDARD hand-held stand pumps with a high spout stand are designed for pumping water without mechanical additives with a maximum temperature of $40{ }^{\circ} \mathrm{C}$. Water transport from drilled or excavated wells to a depth of 30 m . The high spout is designed for connection to depth adjustment.


## Hand stand pump STANDARD II

Hand pump suitable for free flow of water.
Minimum well bore diameter $=$ diameter of used cylinder + at least 20 mm .

## Technical information table Hand pump STANDARD II

| WORKING CYLINDER | MEASURING UNIT | PV 308 | PV 306 | PV 306 |
| :---: | :---: | :---: | :---: | :---: |
| Inner diameter of the working cylinder | mm | 65 | 75 | 90 |
| Outer diameter of the working cylinder | mm | 90 | 145 | 165 |
| Maximum depth of well | m | 29 | 22 | 15 |
| Piston stroke | mm | 170 | 170 | 170 |
| Number of strokes in 1 minute |  | 40 | 38 | 35 |
| Amount of water transported | $1 / \mathrm{min}$ | 20 | 25 | 37 |
| Suction flange DN32G |  | 5/4" |  |  |
| Discharge flange DN40G |  | 6/4" |  |  |
| Height of the pump | mm | 1200 |  |  |
| Weight of the working cylinder | kg | 4,5 | 6 | 7,7 |
| Weight of the pump STANDARD II | kg | 22 |  |  |



Pumps Standard II and STANDARD T have the option of turning the lever according to your needs for good lever pumping and the appearance of the pump on the well.

HAND PUMP STANDARD II


## Hand stand pump STANDARD T

The hand pump has a pressure head and is designed for water discharge. So you can use the pump for transporting water to higher places or for spraying the garden. Minimum well bore diameter = diameter of used cylinder + at least $\mathbf{2 0} \mathbf{~ m m}$.

## Technical information table Hand pump STANDARD T

| WORKING CYLINDER | MEASURING <br> UNIT | PV 308 | PV 306 | PV 306 |
| :--- | :---: | :---: | :---: | :---: |
| Inner diameter of the working cylinder | mm | 65 | 75 | 90 |
| Outer diameter of the working cylinder | mm | 90 | 145 | 165 |
| Maximum depth of well | m | 29 | 22 | 15 |
| Piston stroke | mm | 170 | 170 | 170 |
| Number of strokes in 1 minute |  | 40 | 38 | 35 |
| Amount of water transported | $\mathrm{I} / \mathrm{min}$ | 20 | 25 | 37 |
| Suction flange DN32G | $\cdots$ |  | $5 / 4^{\text {u }}$ |  |
| Discharge flange DN40G | $\cdots$ |  | $6 / 4^{\text {u }}$ |  |
| Discharge height above the water level | m |  | 25 |  |
| Height of the pump | mm |  | 1200 |  |
| Weight of the working cylinder | kg |  | 4,5 | 6 |
| Weight of the pump STANDARD T | kg |  | 26 | 7,7 |



## DEPTH ADJUSTMENT <br> TO STAND PUMPS STANDARD

Table with a list of required components Depth adjustment for the correct operation of STANDARD type hand pumps

| CODE | NAME | 4 m | 5 m | 6 m | 7 m | 8 m | 9 m | 10 m | 11 m | 12 m | 13 m | 14 m | 15 m | 16 m | 17 m |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hand stand pump STANDARD T or STANDARD ॥ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6201 | Suction pipe 5/4" $2,2 \mathrm{~m}+$ SK Pirate | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |
| 6203 | Suction pipe $5 / 4$ " $3,2 m+$ SK Pirate |  | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6204 | Suction pipe 5/4" $2 \mathrm{~m}+$ nozzle |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6205 | Discharge pipe 1 m with opening $6 / 4^{\prime \prime}$ | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |
| 6206 | Discharge pipe 2 m with opening 6/4" |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |
| 6207 | Discharge pipe 3 m with opening 6/4" |  |  |  |  |  | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6217 | Working cylinder 306/90 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |  |
| 6216 | Working cylinder 306/75 |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |
| 6218 | Working cylinder 308/65 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6208 | Discharge pipe $1 \mathrm{~m}+$ nozzle $6 / 4^{\prime \prime}$ |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |
| 6209 | Discharge pipe $2 \mathrm{~m}+$ nozzle 6/4" |  |  |  |  |  |  | 1 | 1 | 1 |  | 1 |  | 2 | 1 |
| 6210 | Discharge pipe3 $\mathrm{m}+$ nozzle $6 / 4^{\prime \prime}$ |  |  |  |  |  |  |  |  |  | 1 | 1 | 2 | 1 | 2 |
| 6211 | Rod $2,15 \mathrm{~m}$ with nut M12 | 1 | 1 | 1 | 1 |  | 1 |  |  | 1 | 1 |  | 1 |  |  |
| 6212 | Rod $3,15 \mathrm{~m}$ with nut M12 |  |  |  |  | 1 |  | 1 | 1 |  |  | 1 |  | 1 | 1 |
| 6213 | Rod $2,00 \mathrm{~m}$ with nut M12 |  |  |  |  |  | 1 | 1 |  | 1 |  |  | 1 | 1 |  |
| 6214 | Rod $3,00 \mathrm{~m}$ with nut M12 |  |  |  |  |  |  |  | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| 6221 | Drainage equipment | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3349 | Mounting clip with wedges | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |


| CODE | NAME | 18 m | 19 m | 20 m | 21 m | 22 m | 23 m | 24 m | 25 m | 26 m | 27 m | 28 m | 29 m | 30 m |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hand stand pump STANDARD T or STANDARD ॥ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6201 | Suction pipe 5/4" $2,2 \mathrm{~m}+$ SK Pirate |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6203 | Suction pipe 5/4" $3,2 \mathrm{~m}+$ SK Pirate | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |


| 6204 | Suction pipe $5 / 4 " 2 \mathrm{~m}+$ nozzle | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6205 | Discharge pipe 1 m with opening $6 / 4^{\prime \prime}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6206 | Discharge pipe 2 m with opening 6/4" |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6207 | Discharge pipe 3 m with opening 6/4" | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6217 | Working cylinder 306/90 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6216 | Working cylinder 306/75 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |
| 6218 | Working cylinder 308/65 |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6208 | Discharge pipe $1 \mathrm{~m}+$ nozzle 6/4" | 1 | 1 |  |  |  |  | 1 | 1 |  |  |  |  |  |
| 6209 | Discharge pipe $2 m+$ nozzle 6/4" | 1 |  | 1 |  | 2 | 1 | 1 |  | 1 |  | 2 | 1 | 1 |
| 6210 | Discharge pipe3 $\mathrm{m}+$ nozzle $6 / 4{ }^{\prime \prime}$ | 2 | 3 | 3 | 4 | 3 | 4 | 4 | 5 | 5 | 6 | 5 | 6 | 6 |
| 6211 | Rod 2,15 m with nut M12 | 1 | 1 |  | 1 |  |  | , | 1 |  | 1 |  |  | , |
| 6212 | Rod $3,15 \mathrm{~m}$ with nut M12 |  |  | 1 |  | 1 | 1 |  |  | 1 |  | 1 | 1 |  |
| 6213 | Rod $2,00 \mathrm{~m}$ with nut M12 | 1 |  |  | 1 | 1 |  | 1 |  |  | 1 | 1 |  | 1 |
| 6214 | Rod $3,00 \mathrm{~m}$ with nut M12 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 |
| 6221 | Drainage equipment | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3349 | Mounting clip with wedges | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Depth adjustment consists of a fastening clip with wooden wedges, a working cylinder, a discharge line and a suction line with a suction basket.
Furthermore, from the dewatering device (for draining water from the body stand so that water does not freeze in it), which is located on the discharge pipe about 80 cm below the stand plate. Also from the inner rod, which connects the piston in the cylinder with the stand rocker arm, which mediates the transmission of movement between the hand pump lever and the piston in the working cylinder. The working cylinder with the working piston is separately located in the well above the discharge pipe.
The type of working cylinder is determined by the depth of the well. Discharge pipes (above the working cylinder) must be metal. The rod runs in them and plastic would be damaged. The suction line (under the working cylinder) must be $100 \%$ tight, all connections perfectly sealed. Suction pipes can also be plastic.

## ITEMS OF THE DEPTH ADJUSTMENTS



## WORKING CYLINDER

Working cylinders are the main part of the depth adjustment for STANDARD pumps.
The type of cylinder used depends on the depth of the well, see. depth adjustment table.

## Working cylinder 306

The cylinder body forms one unit. Between the body and the flange is a suction flap. There is a piston inside the culinder with cuff and valve.

## Working cylinder 308

The design is similar to type 306, but does not have a flange. The lower part of the working cylinder with the flap is connected to the body by a thread.


Dimensions of working cylinders

|  | HEIGHT <br> in $\mathbf{~ m m}$ | OUTER <br> DIAMETER | DIMENSIONS <br> OF FLANGE |
| :--- | :---: | :---: | :---: |
| Working cylinder 306/75 | 395 | 85 | 145 |
| Working cylinder 306/90 | 395 | 100 | 165 |
| Working cylinder 308/65 | 375 | 77 | 90 |

## SUCTION BASKETS

Suction baskets are used as inlet elements of the suction pipe for water suction. They prevent the ingress of coarse mechanical impurities into the suction line when sucking fluid. The suction basket must always be mounted vertically, because when the pumping is stopped, the valve cap (flap, plug, ball) automatically, i.e by its own weight and the pressure of the column of liquid, it fits tightly into the seat and thus prevents backflow and leakage of liquid from the suction pipe. When the pump starts, the valve cap (flap, plug, ball) automatically rises from the seat due to pressure differences in the suction system and allows the suction liquid to flow through the suction basket through the pipe towards the hand pump.

## Suction basket - cast iron SK 321

The top and bottom of the suction basket are connected by screws. There's a flap inside with a load that rests on a precisely machined surface.
Use: clean or turbid water without hard mechanical impurities up to a maximum temperature of $40^{\circ} \mathrm{C}$.


| PRODUCT CODE | 6612 | 6613 | 6614 | 6615 | 6616 | 6617 | 6618 | 6619 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Connecting thread - in inches | 1/2 " | 3/4 " | $1{ }^{\prime \prime}$ | 5/4 " | 6/4 " | 2 " | $21 / 2$ " | 3 " |
| Diameter DN - mm | 15 | 20 | 25 | 32 | 40 | 50 | 70 | 80 |
| External dimension max. - mm | 74 | 88 | 98 | 115 | 128 | 145 | 172 | 192 |
| Weight - kg | 0,4 | 0,6 | 0,7 | 1 | 1,5 | 1,9 | 3,9 | 5,6 |
| Maximum overpressure | 1 |  |  |  |  |  |  |  |

## Suction basket - cast iron SK KULI

Nozzle suction basket with ball valve designed for domestic water. The top and bottom of the basket are connected by screws. It is rubberised inside.
Use: clean or turbid water even with mechanical impurities (mud,
 sand, etc.) up to a maximum temperature of $60^{\circ} \mathrm{C}$.

| PRODUCT CODE | 6606 | 6607 | 6608 | 6609 | 6610 | 6611 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Connecting thread - in inches | 1 " | 5/4 " | 6/4 " | 2 " | $21 / 2^{\prime \prime}$ | 3 " |
| Diameter DN - mm | 25 | 32 | 40 | 50 | 70 | 80 |
| External dimension max. - mm | 96 | 115 | 128 | 145 | 172 | 240 |
| Weight - kg | 0,9 | 1,2 | 1,8 | 2,8 | 5,9 | 12 |
| Maximum overpressure | 1 |  |  |  |  |  |

## Suction basket - cast iron SK PIRATE

Nozzle suction basket with pupm disk valve designed for domestic water. The suction basket is cast in one piece. Usual valve and seat design - rubber seal for cast iron.
Use: not only for hand pumps, but especially for machine pumps.
Clean or turbid water without mechanical impurities with a maximum temperature of $60^{\circ} \mathrm{C}$.


| PRODUCT CODE | $\mathbf{6 6 0 0}$ | $\mathbf{6 6 0 1}$ | $\mathbf{6 6 0 2}$ | $\mathbf{6 6 0 3}$ | $\mathbf{6 6 0 4}$ | $\mathbf{6 6 0 5}$ |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Connecting thread - in inches | 1 " | $5 / 4$ " | $6 / 4$ " | 2 " | $21 / 2$ " | 3 " |  |  |
| Diameter DN - mm | 25 | 32 | 40 | 50 | 70 | 80 |  |  |
| External dimension max. - mm | 72 | 84 | 90 | 107 | 121 | 152 |  |  |
| Weight - kg | 1,1 | 1 | 1,2 | 2,8 | 4,8 | 7,8 |  |  |
| Maximum overpressure | 1 |  |  |  |  |  |  |  |

## Suction basket - plastic SK PLAST

Nozzle basket with valve also suitable for drinking water.
The suction basket is made of plastic mouldings with high mechanical resistance and long life.
Use: clean or turbid water without mechanical impurities with a maximum temperature of $60^{\circ} \mathrm{C}$.

| PRODUCT CODE | $\mathbf{6 6 2 2}$ | $\mathbf{6 6 2 0}$ | $\mathbf{6 6 2 1}$ |
| :--- | :---: | :---: | :---: |
| Connecting thread - in inches | 1 " | $5 / 4$ " | $6 / 4$ " |
| Diameter DN - mm | 25 | 32 | 40 |
| External dimension max. - mm | 99 | 99 | 99 |
| Weight - kg | 0,25 | 0,24 | 0,24 |
| Maximum overpressure |  | 1 |  |



## SPRAYERS

## SPRAYERS PU-K

PU-K sprayer is designed for irrigation of agricultural land, gardens, maintenance of sports fields, spraying of landfills of wood, coal, etc. It is suitable for spraying with clean water only. It is produced in three sizes in accordance to the required spray length and precipitation intensity.

## Sprayer PU-K1

The PU-K1 sprayer is supplied with a tripod, which allows good handling during relocation. It is equipped with a socket for connecting a DN 5/4 „or DN 6/4" hose. Nozzle selection according to the required spray.


| NOZZLE <br> DIAMETER <br> $\mathbf{m m}$ | WATTER <br> PRESSURE ON <br> THE NOZZLE <br> $\mathbf{M P a}$ | WATER <br> CONSUMPTION <br> $\mathbf{I / s - 1}$ | $\mathbf{S P R A Y}$ | CIRCULAR IRRIGATED <br> AREA <br> $\mathbf{m}^{2}$ | RAINFALL |
| :---: | :---: | :---: | :---: | :---: | :---: |

## Sprayer PU-K2

The PU-K2 sprayer is designed mainly as a part of irrigation sets of agricultural land.


| NOZZLE <br> DIAMETER <br> $\mathbf{m m}$ | WATTER <br> PRESSURE ON <br> THE NOZZLE <br> MPa | WATER <br> CONSUMPTION <br> $\mathbf{I / s - 1}$ | SPRAY | CIRCULAR IRRIGATED <br> AREA <br> $\mathbf{m}^{2}$ | RAINFALL |
| :---: | :---: | :---: | :---: | :---: | :---: |

## Sprayer PU-K3


\(\left.$$
\begin{array}{|c|c|c|c|c|c|}\hline \begin{array}{c}\text { NOZZLE } \\
\text { DIAMETER } \\
\mathbf{m m}\end{array} & \begin{array}{c}\text { WATTER } \\
\text { PRESSURE ON } \\
\text { THE NOZZLE } \\
\text { MPa }\end{array} & \begin{array}{c}\text { WATER } \\
\text { CONSUMPTION } \\
\text { I/s-1 }\end{array}
$$ \& SPRAY \& CIRCULAR IRRIGATED <br>
AREA <br>

\mathbf{m}^{2}\end{array}\right]\)| RAINFALL |
| :---: |

## Sprayer <br> REVOLTIN

Rotary circular sprayer, which is suitable for irrigating small gardens, orchards and ornamental garden areas with clean water without major mechanical admixtures.
The sprayer is portable. It consists of a folding tripod, a nozzle and a rotating paddle disk mounted on a spring shaft.
The device irrigates a circular area, the diameter of which is determined by the size of the nozzle and the water pressure ( 8 to 13 m ). Supplied with union nut and socket for connecting DN 19 (3/4") or DN 25 (1") hose.


| NOZZLE <br> DIAMETER <br> $\mathbf{m m}$ | WATER <br> PRESSURE <br> $\mathbf{k p / c m}$ | WATER FLOW | SPRAY | IRRIGATION AREA | RAINFALL | WEIGHT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | $\mathbf{I} / \mathbf{m i n}$ | $\mathbf{m}$ | $\mathbf{m}^{2}$ | $\mathbf{m m} / \mathbf{h o d}$ | $\mathbf{k g}$ |  |
| 5 | $2-3$ | $15-18$ <br> $21-30$ | $8-10$ <br> $9-11,5$ | $284-415$ | $4,0-4,4$ | 4,8 |
| 6 | $2-3$ | $31-41$ | $10-12$ | $380-530$ | $5,9-6,8$ | 4,8 |
| 7 | $42-52$ | $11-13$ |  |  |  |  |

## Hand diaphragm pump

The diaphragm pump is designed primarily for pumping heavily contaminated liquids (sewers, septic tanks, etc.). The pump must be installed in a vertical position.


## Technical information table Hand diaphragm pump

| TYPE OF THE PUMP | DIAPHRAGH |
| :--- | :---: |
| Amount of water transported | $0,65 \mathrm{I} /$ stroke |
| Maximum suction depth | 4 m |
| Maximum discharge height | 15 m |
| Connecting threads G | $6 / 4^{\prime \prime}$ |
| Maximum temperature of the pumping liquid | $40^{\circ} \mathrm{C}$ |
| Weight of the pump | $14,4 \mathrm{~kg}$ |

## Cast iron stand for drinking water - design NOSTALGIC

A beautiful and yet functional decorative element for gardens, parks, squares, urban areas.
Thanks to its internal assembly, this nostalgic stand is suitable for use for pumping drinking water. It can be connected to a pressurized water supply, i.e to the city water supply system or to water pushed by an electric pump from a well. It is used to supply free-flowing water from pressure distribution. Easy to start and stopping the flow of water thanks to the lever on a stand.


## Punching tips

Punching tips can be used in calibres, wherever there is a large supply of groundwater, such as in sand pits during sand mining.
The punching tips can be used for low hand pumps NP series stand in soft aquifers. It also serves as a mechanical filter. They are available in two basic threaded versions 6/4" and 5/4".


## TABLES OF NAMES AND ORDER CODES

| KÓD | NÁZEV |
| :---: | :--- |
| 60071 | Hand stand pump STANDARD II - dark green |
| 60072 | Hand stand pump STANDARD II - black |
| 60073 | Hand stand pump STANDARD II - blue |
| 60061 | Hand stand pump STANDARD T - dark green |
| 60062 | Hand stand pump STANDARD T - black |
| 41001 | Pump NP 75 round flange - dark green |
| 41002 | Pump NP 75 round flange - black |
| 60092 | Pump NP 75 NOSTALGIC - black |
| 41021 | Pump NP 75 side flange - dark green |
| 60111 | Pedestal NP 75 - dark green |
| 60112 | Pedestal NP 75 - black |
| 60122 | Pedestal NP 75 Nostalgic - black |
| 60051 | Pump NP 75 LK 211 - dark green |
| 60142 | Stand pump HP 75 Nostalgic - black |
| 4227 | Pump NP 75 T - dark green |
| 60011 | Pump NP 90 round flange - dark green |
| 60081 | Two cylinder pump LILA 75 - dark green |
| 60083 | Two cylinder pump LILA 75 - blue |
| 41181 | Diaphraghm pump - dark green |
| 41182 | Diaphragm pump - black |
| 41184 | Diaphragm pump - anthracite |
| 60172 | Cast iron stand Nostalgic for drinking water - black |
| 60162 | Cast iron stand Nostalgic for drinking water high - black |
| 6600 | Suction basket Pirát 1" |
| 6601 | Suction basket Pirát 5/4" |
| 6602 | Suction basket Pirát 6/4" |
| 6603 | Suction basket Pirát 2" |
| 6604 | Suction basket Pirát 2 1/2" |


| KÓD | NÁzEV |
| :---: | :--- |
| 6605 | Suction basket Pirát 3" |
| 6606 | Suction basket Kuli 1" |
| 6607 | Suction basket Kuli 5/4" |
| 6608 | Suction basket Kuli 6/4" |
| 6609 | Suction basket Kuli 2" |
| 6610 | Suction basket Kuli 2 1/2" |
| 6611 | Suction basket Kuli 3" |
| 6612 | Suction basket 321 1/2" |
| 6613 | Suction basket 321 3/4" |
| 6614 | Suction basket 321 1" |
| 6615 | Suction basket 321 5/4" |
| 6616 | Suction basket 321 6/4" |
| 6617 | Suction basket 321 2" |
| 6618 | Suction basket 321 2 1/2" |
| 6619 | Suction basket 321 3" |
| 6620 | Suction basket plastic SKP 5/4" |
| 6621 | Suction basket plastic SKP 6/4" |
| 6622 | Suction basket plastic SKP 1" |
| 3200 | Sprayer PU-K1 without tripod |
| 3201 | Sprayer PU-K1 nozzle 5/4" with tripod |
| 3202 | Sprayer PU-K1 nozzle 6/4" with tripod |
| 3203 | Sprayer PU-K2 without tripod |
| 3204 | Sprayer PU-K2 without tripod |
| 3206 | Sprayer REVOLTIN DN 3/4" |
| 3207 | Sprayer REVOLTIN DN 1" |
| 6630 | Punching tip 5/4" |
| 6631 | Punching tip 6/4" |

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