

## Application

The U 3 K NIRO (stainless steel) meets many requirements in a single pump.

The pump must not be used for lifting sewage from lavatories and urinals. They may be safely used in sumps for lifting sewage from dishwashers and washing machines.

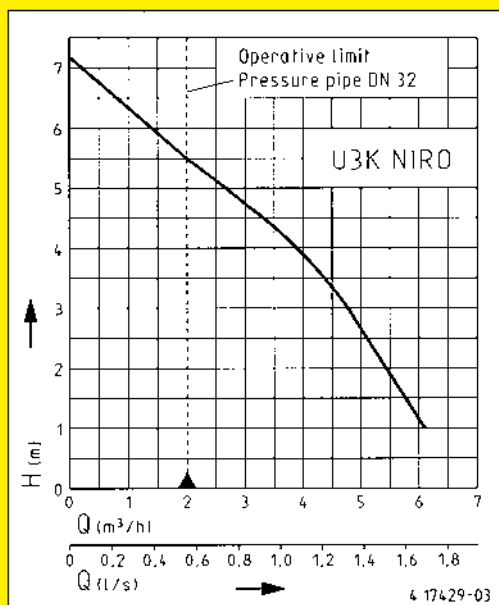
For deep sumps there is a guide rail system GR 32 available, which provides an easy removal for routine maintenance and inspection.



For handling more heavily contaminated water we recommend the submersible drainage pumps US. For contaminated water, condensate from condensing boilers, liquid fertilizer etc. you should use the special design **U 3 K spezial**.



U 3 KS NIRO with built-in level control

The minimum flow velocity in the pressure piping must be 0,7 m/s according to DIN EN 12056. This data is represented in the performance curve as a limit of application.



- ▶ Safe to run dry
- ▶ Portable
- ▶ Variable delivery branch
- ▶ Integrated swing-type check valve
- ▶ Built-in low level suction facility
- ▶ Moisture sealed cable inlet
- ▶ Z-53.3-334  

We reserve the right to change specifications without notice. Pump performance is subject to ISO 2548 tolerances.

## Submersible sump pumps

Type	Height x Width (max.)	Cable H05RN	Free passage	Discharge branch	Weight	Code No.
<b>Pump without level control</b>						
U 3 K NIRO without bend	255 x 170 mm	10 m	10 mm	1¼"	3,5 kg	<b>205</b>
U 3 K NIRO with bend	255 x 225 mm					
<b>Pump with built-in level control</b>						
U 3 KS NIRO	255 x 275 mm	3 m	10 mm	1¼"	3,5 kg	<b>206</b>
U 3 KS NIRO	255 x 275 mm	10 m (cable H07RN)	10 mm	1¼"	4,9 kg	<b>9808</b>

## Performance

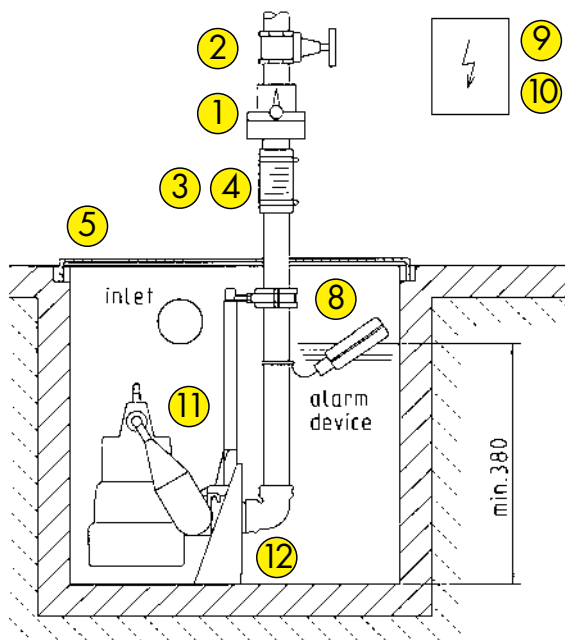
Type	Delivery head (m)	1	2	3	4	5	6
U 3 K NIRO	Flow rate (m³/h)	6,5	5,5	5,0	4,0	2,5	1,5

## Electrical data

Type	Type of current	Voltage Volt	Motor rating kW		RPM min <sup>-1</sup>	F.L.C. Amp.	Motorprotection	Plug
			P <sub>1</sub>	P <sub>2</sub>				
U 3 K NIRO	1-phase	230	0,32	0,20	2720	1,4	incorporated	safety-

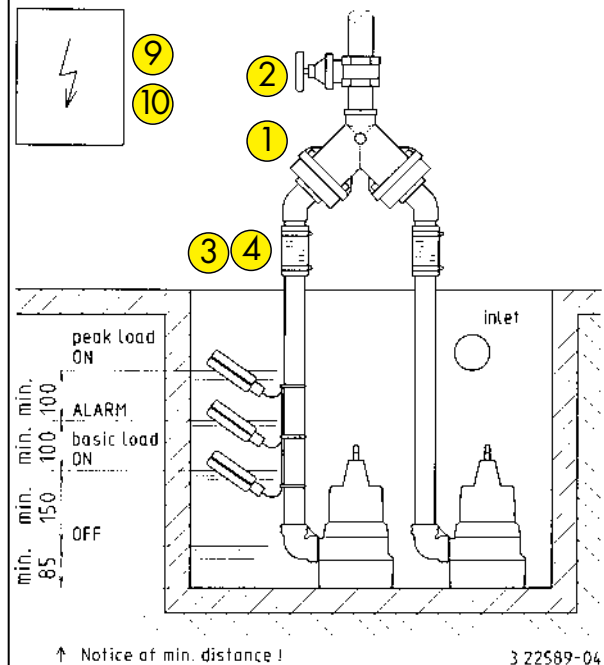
### Single pump installation with GR

Single unit with built-in level control  
 Sump area **with GR 32** min. 40 x 50 cm  
 Sump area **without GR** min. 40 x 40 cm (without illustration)  
 When using a cover panel a ventilation facility must be provided.

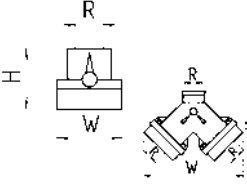
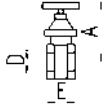


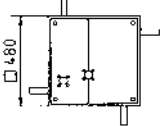
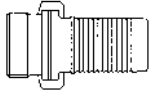

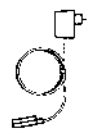
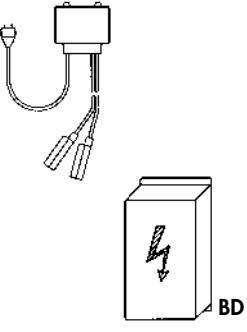





### Duplex pump installation

Duplex unit with control unit  
 Sump area **with GR 32** min. 50 x 50 cm (without illustration)  
 Sump area **without GR** min. 50 x 50 cm  
 Suspend control unit in a dry room



## Accessories

		Code No.	U 3 K NIRO	U 3 KS NIRO
	<b>① Swing-type check valve</b> 1 1/4" (DN 32), PN 4 Z-53.4-369	H    W    R 90   90   1 1/4"	●	●
	<b>Double swing-type check valve</b> 1 1/2" (DN 40), PN 4 for double pump station Z-53.4-346	H    W    R 200 280 1 1/2"	●	●
	<b>② Stop valve</b> 1 1/4" (DN 32), PN 16	A    E    D 110 52 1 1/4"	●	●
	1 1/2" (DN 40), PN 16	125 60 1 1/2"	●	●
	<b>③ Elastic connection</b> 1 1/4" (DN 32), PN 3	E    D 100 42	●	●
	<b>④ Hose band clamp</b> 1 1/4"		●	●
	<b>⑤ Cover plate*</b> c/w frame, seal and pipe conduct LW 420		●	●
	<b>Blind plate*</b> c/w frame and seal LW 420		●	●
	<b>⑥ Hose coupling</b> 1 1/4" (DN 32), brass, for portable use		●	●
	<b>⑦ Flexible hose</b> 1 1/4" (DN 32), PVC, red, per m, for portable use		●	●
	<b>⑧ Alarm system</b> with submersible ball contact switch with 3 m cable, separate mainsdependent, with potential free contact	16723	●	●
	<b>Alarm system</b> ditto. with 9,5 m cable	24434	●	●
	<b>Alarm system for washing-machines AW 3</b> with submersible ball contact switch with 3 m cable, separate, mainsdependent	25090	●	●
	<b>Alarm system for washing-machines AW 10</b> ditto, with 9,5 m cable	25091	●	●
	<b>⑨ Separate level control</b>			
	NE 1 1-phase with submersible ball contact switch 3,0 m	16710	●	
	NE 2 1-phase with submersible ball contact switch 9,5 m	16711	●	
	NE 1A 1-phase with submersible ball contact switch 3,0 m and alarm system	16714	●	
	NE 2A 1-phase with submersible ball contact switch 9,5 m and alarm system	16715	●	
	<b>Duplex control unit</b>			
BD 00E 1-phase	482	●		
Subm. switch pack B with 3 subm. ball contact switches with 9,5 m cable and fixing devices	16725	●		
	<b>⑩ Rechargeable battery</b> for off the line operation of the alarm system	7562	●	●
	<b>⑪ Special float for low switching points</b> (Switching hight without GR ON 100 mm, OFF 40 mm; switching hight with GR 32 ON 130 mm, OFF 70 mm)	17424		●
	<b>⑫ Guide rail system GR 32</b>	9277	●	●

\* only for single units

## Technical data

### Pump

Vertical, single-stage, submersible, with foot strainer, volute casing with 1 1/4" (male) radial pressure branch, open 4-blade impeller, free passage 10 mm, integral swing-type check valve and built-in shallow pumping

### Bearings

Common shaft for pump and motor, mounted in ball bearings and grease lubricated for life

### Seal

Shaft sealing by means of shaft sealing rings and intermediate oil chamber, safe to run dry

### Motor

Submersible motor, type of enclosure IP 68, insulation class B, starting via plug or automatic circuit. Completely water tight cable entry

### Materials

Motor housing and shaft in stainless steel, volute casing, impeller and control head in plastic (GRP), rubber insulated flexible cable

### Installation

Install pump vertically (hose connection possible), if installed permanently, provide detachable connection, eg guide rail system GR 32

### Scope of supply

Pump ready for connection with 90° 1 1/4" female connection elbow, cable and plug

