

## U5

### DRAINAGE PUMPS

- Cooling jacket for motor housing
- Low level pumping by detachable strainer base
- Flushing device
- Variable discharge branch with closable ventilation
- Run dry protection
- 10/20 mm free passage with EIP technology
- Moisture sealed cable inlet



#### DESCRIPTION

The U5K(S) is an extremely powerful and versatile centrifugal submersible pump for both stationary and portable use. The pump is suitable for faecal-free wastewater with solids up to 10 mm particle size. Thanks to the removable strainer base, it is possible to increase the free passage to 20 mm.

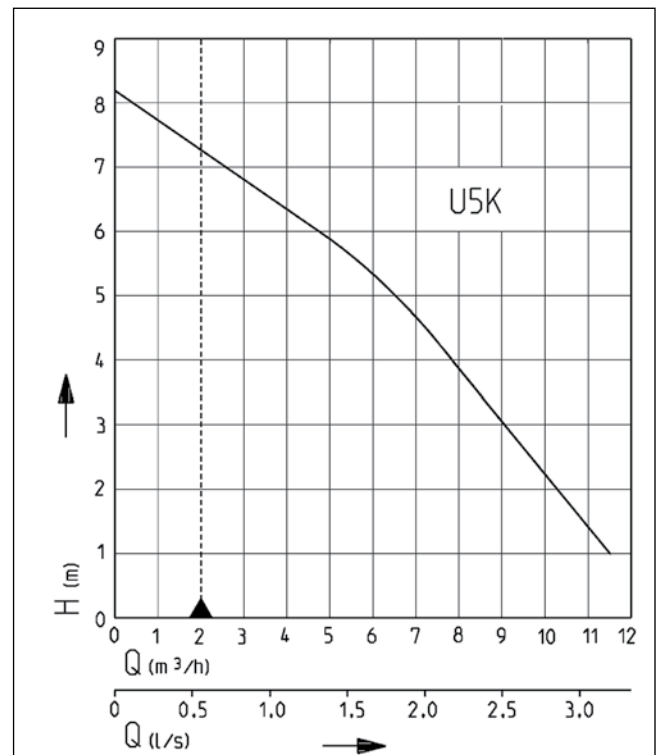
Stationary in a basement chamber or a collecting tank, with an automatic switch attached, the U5KS handles all dirty water arising from domestic drainage sources such as washing machines, dishwashers, washstands, etc. Deposit accumulation in the reservoirs and chambers is reduced to a minimum by means of a flushing device.

The guide rail system GR 32 offers all the advantages of fast and easy maintenance. If the sump or tank runs dry temporarily, the pump can be vented by providing a drill-hole in the spiral housing.

The U5K can be used as a portable unit for dealing with dirty water from garden ponds, flooded cellars or discharge chambers in laundry rooms or storage rooms. Thanks to its shallow, built-in suction system, it can reduce residual water level to no more than a few millimeters.

If submersible pumps are used outdoors, only a pump with 10 m cable without extension cable may be used in accordance with VDE Regulation 0100. For construction sites and garden ponds, a H07-type cable must be used.

#### PERFORMANCE



Type	Delivery head H [m]	1	2	3	4	5	6	7
U5K/U5KS	Flow rate Q [m³/h]	11.5	10.5	9.0	7.5	6.5	4.5	2.5

We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances

The minimum flow velocity in the pressure piping must be 0.7 m/s according to EN 12056. This data is represented in the performance curve as a limit of application.



# U5

## DRAINAGE PUMPS

### SCOPE OF SUPPLY

Pump ready for connection acc. to EN 12050 with 90°, 1¼" female connection elbow, cable and safety plug, S model with automatic level float switch.

The pump is delivered fitted with a strainer base which can be swapped for any of the accompanying pedestals in cases where a 20 mm clear passage is required.

### MECHANICAL DATA

Pump	Vertical single-stage	Run dry protection	Yes
Free passage	20 mm	Shaft	Stainless steel
Bearing	Ball bearings, grease-lubricated	Impeller	Vortex impeller, GFK
Seal on motor side	Rotary shaft seal	Motor housing	Stainless steel
Oil chamber	Yes	Pump housing	GRP
Seal on medium side	2-fold rotary shaft seals	Submersible	Yes
		Pressure outlet	1 1/4"

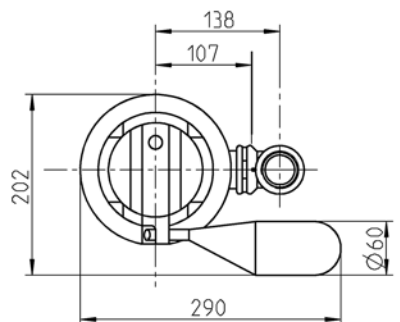
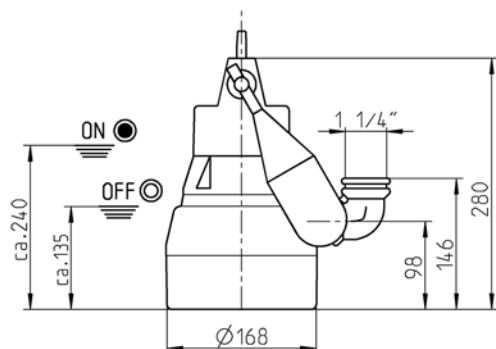
### ELECTRICAL DATA

Voltage	1/N/PE~230 V	Insulation class	B
Motor rating P1	0.52 kW	Winding thermostat	Yes
Motor rating P2	0.38 kW	Motor protection	Integrated
Current	2.3 A	Plug	Safety
Type of enclosure	IP 68		

### U5

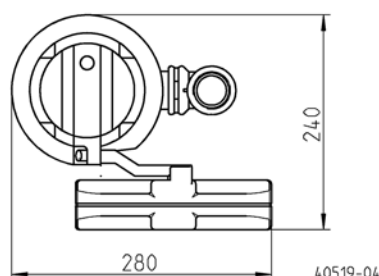
Type	Code No.	Power line	Wires	Weight
<b>Without level control</b>				
U5K, 10 m cable	<b>JP09386</b>	10m H05RN-F	3G0,75	4.7 kg
<b>With built-in level control</b>				
U5KS, 4 m cable	<b>JP09387</b>	4m H05RN-F	3G0,75	4.5 kg
U5KS, 10 m cable	<b>JP09417</b>	10m H07RN-F	3G1,0	5.4 kg

### Dimensions and switching points U5KS (mm)



40519-04

### Dimensions and switching points special float switch (mm)

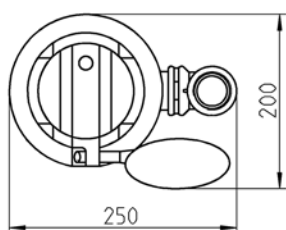
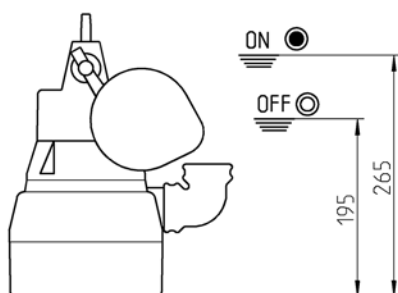


40519-04

# U5

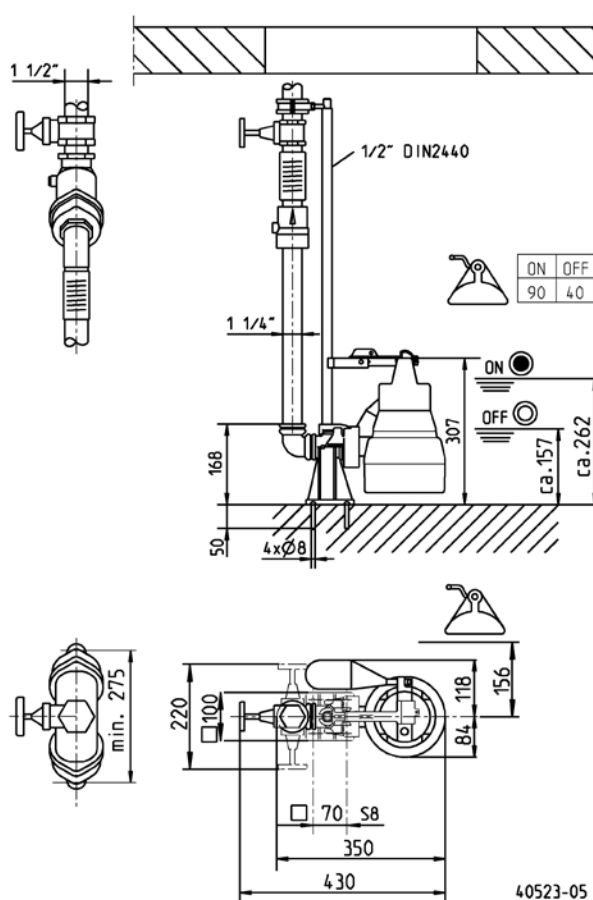
## DRAINAGE PUMPS

Dimensions and switching points float switch (mm)



40519-04

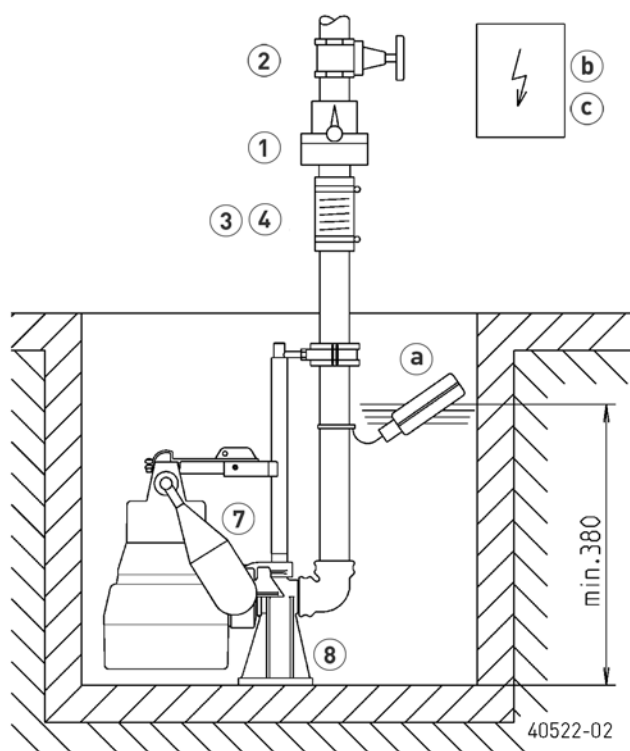
Dimensions and switching points GR 32 (mm)



# U5

## DRAINAGE PUMPS

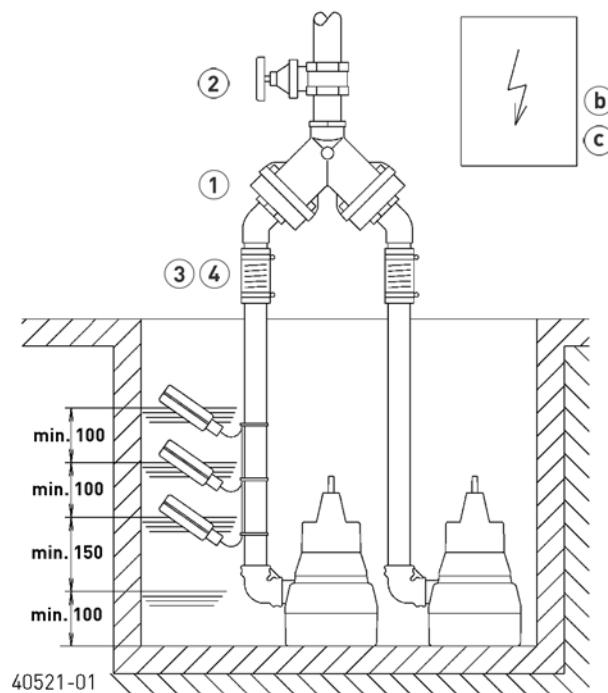
Example of single pump installation with GR



Single unit with GR: sump area min. 40x50 cm or Ø 50 cm  
 Single unit without GR: sump area min. 40x40 cm or Ø 40 cm  
 Duplex unit with GR: sump area min. 50x50 cm, Ø 60 cm  
 Duplex unit without GR: sump area min. 50x50, Ø 55 cm



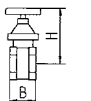
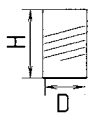



In case of installation beneath the backpressure level the pressure tube must be taken in a

Example of duplex installation



loop over the local backup level acc. to EN 12056. Besides, it must be secured with an EN 12050-4-proofed swing-type check valve. Additionally we recommend an alarm system. In accordance with EN 12056-4 section 5.1, it has a built-in automatic spare pump or a double attachment included, which ensures that sewage drainage is not interrupted. Suspend control unit in a dry room

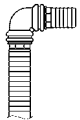






### MECHANICAL ACCESSORY

					Code No.
	<b>1 Swing-type check valve</b>				
	R32 EN 12050-4	1¼" (DN 32), PN 4	90x90 (HxB)		JP09739
	DR 40 EN 12050-4	1½" (DN 40), PN 4	200x280 (HxB)		JP09155
	<b>2 Stop valve</b>	1¼" (DN 32), PN 16	110x60 (HxB)		JP44785
		brass, 1½" (DN 40), PN 16	125x60 (HxB)		JP44786
	<b>3 Elastic connection</b>	1¼" (DN 32), PN 3	100x42 (HxD)		JP44773
	<b>4 Hose band clamp</b>	1¼"			JP44765
	<b>5 Hose coupling</b>				
	Hose coupling	1¼" (DN 32) brass, for transportable use			JP00327
	Coupling Storz C	1 1/4" male thread			JP44780
	Coupling wrench				JP25708
	House connection	1¼" - 38/32/25			JP44209




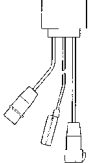



# U5

## DRAINAGE PUMPS

### MECHANICAL ACCESSORY

			Code No.
	<b>⑥ Hose set</b>	1 1/4" (DN32), 15 m PVC hose c/w elbow	JP43550
	<b>⑦ Special float</b>	for lower switching points (U5 and U6)	JP44207
		for narrow chambers (mind. 30x30 od Ø30 cm)	JP40856
	Float fixation	for continuous pump operation	JP42175
	<b>⑧ Guide rail system</b>	GR 32	JP44000
	Support for guide rail extension	ex 2 m sump depth, per m 1 piece	JP28314
	<b>⑨ Connection kit</b>	DN 32, with telescopic pressure pipe 30-90 cm	JP44609

### ELECTRICAL ACCESSORY

			Code No.
	<b>a Alarm unit</b> PTS.SA1	Level alarm system with battery backup 320x240x150mm (WxDxH)	PTS.SA1
	PTS.HLA	High Level alarm unit. 182x180x111mm (HxWxD)	PTS.HLA
	Power Isolation Alarm	Isolate appliance - in event of alarm no more water will be fed into the alarm system	P734
	<b>b Control for single units</b> Control unit NE 1	230 V, subm. ball contact switch 3.0 m	JP16710
	Control unit NE 1A	230 V, subm. ball contact switch 3.0 m, alarm	JP16714
	Control unit NE 2	230 V, subm. ball contact switch 9.5 m	JP16711
	Control unit NE 2A	230 V, subm. ball contact switch 9.5 m, alarm	JP16715
	<b>Control for duplex units</b> Control unit BD 00 E	230 V, for pumps U3-U6, US 62-105, UV 300, 08/2 ME	JP45735
	Control unit HIGHLOGO 2-00 E	230 V	JP47996
	<b>Level control</b> Subm. switch pack B	3 subm. ball contact switch with 9.5 m and fixing devices	JP16725
	Subm. switch pack BmG	3 subm. ball contact switch with 9.5 m and counterweight	JP16726
	Weight	to stabilize the subm. ball contact switch	JP44803
	<b>c Rechargeable battery</b>	for mains independent alarm	JP44850
			JP47209

# U5

## DRAINAGE PUMPS