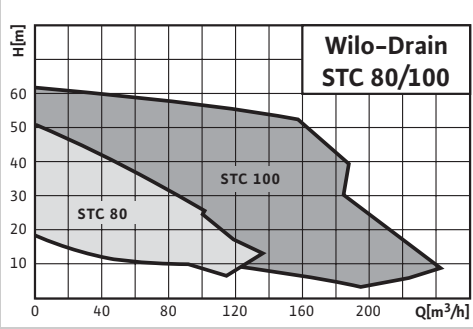


Wilco-Drain Submersible Pumps

Wilco-Drain STC 80/100



Duty chart (2/4-pole, 50 Hz)

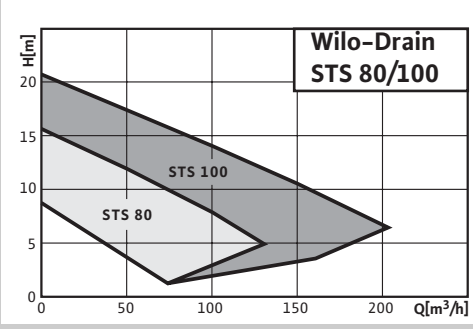


- Submersible sewage pump
- Applications: Pumping faeces, municipal and industrial sewage containing long-fibre particles in the following areas:
 - Building and surface drainage
 - Sewage disposal and conservation
 - Environmental protection and sewage farm technology
 - Industrial and process engineering

Wilco-Drain STS 80/100



Duty chart (4-pole, 50 Hz)

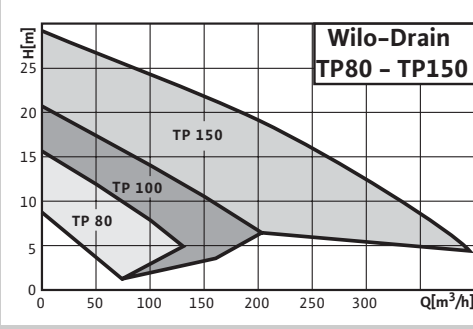


- Submersible sewage pump
- Applications: Pumping faeces, municipal and industrial sewage containing long-fibre particles in the following areas:
 - Building and surface drainage
 - Sewage disposal and conservation
 - Environmental protection and sewage farm technology
 - Industrial and process engineering

Wilco-Drain TP 80/100/150



Duty chart (4-pole, 50 Hz)



- Submersible sewage pump
- Applications: Pumping faeces, municipal and industrial sewage containing long-fibre particles in the following areas:
 - Building and surface drainage
 - Sewage disposal and conservation
 - Environmental protection and sewage farm technology
 - Industrial and process engineering

Wilco-Drain Submersible Pumps

Wilco-Drain STC 80/100

- Separation chamber with double seal
- Wide range of performance levels

Wilco-Drain STS 80/100

- Detachable power cable
- Stainless steel motor

Wilco-Drain TP 80/100/150

- INOX & Composite
- Explosion protection fitted as standard
- Lightweight
- Detachable power cable
- Cooling jacket fitted as standard
- Corrosion-resistant (when used to drain swimming pools, for example)

Product Description



Wilo-Drain STC 80/100

Submersible sewage pump

Type key

Example: **Wilo-Drain STC 80 E 17.95/37.5**

STC	Submersible pump
80	Nominal diameter [mm]
E	Impeller type: E = Single-vane impeller M = Multi-vane impeller
17	Max. delivery head when Q = 0 [m]
95	Max. volume flow [m ³ /h]
37.5	Performance rating P ₂ [kW] = value/10 = 3.75 kW

Applications

Wilo-Drain STC submersible pumps are ideal for pumping faeces, municipal and industrial sewage containing long-fibre particles in the following areas:

- Building and surface drainage
- Sewage disposal and conservation
- Environmental protection and sewage farm technology
- Industrial and process engineering

Design

Monobloc submersible sewage pump for vertical wet sump installation.

Scope of delivery

Fully assembled pump with 15 m power cable with bare cable end and installation and operating manual. Non standard cable lengths on request



Wilo-Drain STS

Submersible sewage pump

Type key

Example: **Wilo-Drain STS 80 F 81.120/20**

STS	Submersible pump
80	Nominal diameter [mm]
F	Free-flow impeller
81	Max. delivery head when Q = 0 [m]
120	Max. volume flow [m ³ /h]
20	Performance rating P ₂ [kW] = value/10 = 2.0 kW

Applications

Wilo-Drain STS submersible pumps are ideal for pumping faeces, municipal and industrial sewage containing long-fibre particles in the following areas:

- Building and surface drainage
- Sewage disposal and conservation
- Environmental protection and sewage farm technology
- Industrial and process engineering

High operating reliability due to unrestricted free spherical passage.

Suitable for:

- Stationary wet sump installation
- Portable wet sump installation

Design

Monobloc submersible sewage pump for vertical wet sump installation.

- Detachable power cable
- Large free ball passage
- Corrosion- and wear-resistant

Motor

Three-phase asynchronous motor 3~400 V, 50 Hz, protection class IP 68, thermal winding contacts. Insulation class F Other operating voltages and frequencies upon request.

Bearings

The motor shaft is bedded in permanently lubricated, low-maintenance roller bearings.

Shaft seal

Mechanical seal on the motor side and shaft seal on the pump side.

Scope of delivery

Fully assembled pump with 10 m power cable with bare cable end and installation and operating manual. Non standard cable lengths on request

Pump Equipment/Function STS 80/100

		Wilo-Drain STS 80	Wilo-Drain STS 100
Operating mode S3 (intermittent service)			
Frequency switching/h [%]		25	25
Max. frequency switching/h		20	20
Recommended frequency switching/h		20	20
Operating mode S1 (continuous service)			
Motor below water		•	•
Pump/motor seals			
In pumping medium area:	Mechanical seal	SiC/SiC	SiC/SiC
On the motor compartment side:	Shaft seal	NBR	NBR
Oil seal chamber		•	•
Design			
Wet sump installation	Stationary	•	•
	Portable	•	•
Submersible		•	•
Free-flow impeller		•	•
Materials			
Motor	Stainless steel	•	•
Pump	Cast iron	•	•
Equipment			
Motor monitor (temperature)		•	•

• = available, – = not available

	Wilco-Drain ...								
	STS 80					STS 100			
	F 7.110/20	F 9.120/24	F 10.120/27	F 12.120/32	F 14.100/40	F 10.170/59	F 12.170/72	F 15.170/84	
Approved fluids									
Washing machine soap and water mixture (without long-fibre particles)						•			
Water from car wash facilities						•			
Non-chlorinated pool water						•			
Water from firefighting systems						•			
Heating water						• (up to 40 °C)			
Hot water						• (up to 40 °C)			
Water from boilers						• (up to 40 °C)			
Condensate						• (up to 40 °C)			
Cooling (condenser) water						•			
Clean water						•			
Untreated wastewater						•			
Drainage water						•			
Partially desalinated water						•			
Rainwater						•			
Swimming pool water						–			
Sea water						–			
Wastewater, flood and river water						•			
Domestic wastewater and sewage including faeces						•			
Faeces, municipal and industrial sewage containing long-fibre particles						•			
Gaseous and non-gaseous sludge (up to 10% by volume of dry substance)						Gaseous: conditionally, otherwise • (up to 10%)			
Highly dilute alkalines						•			
Strong alkalines						Conditionally			
Media with low aggressiveness						•			
Acidic water						Conditionally			
Aggressive media						Conditionally			
Performance									
Power consumption P_1 3~400 V [kW]	2.7	3.4	3.7	4.5	5.3	7.1	8.8	10.1	
Motor power P_2 [kW]	2.0	2.4	2.7	3.2	4.0	5.9	7.2	8.4	
Rated current for 3~400 V [A]	6.1	6.7	7.0	8.0	8.9	14.2	16.5	18.5	
Speed [rpm]	1,450								
Motor									
Protection class for max. submersion depth						IP 68			
Insulation class						F			
Frequency switching [per hour]						20			

Technical Data STS 80/100

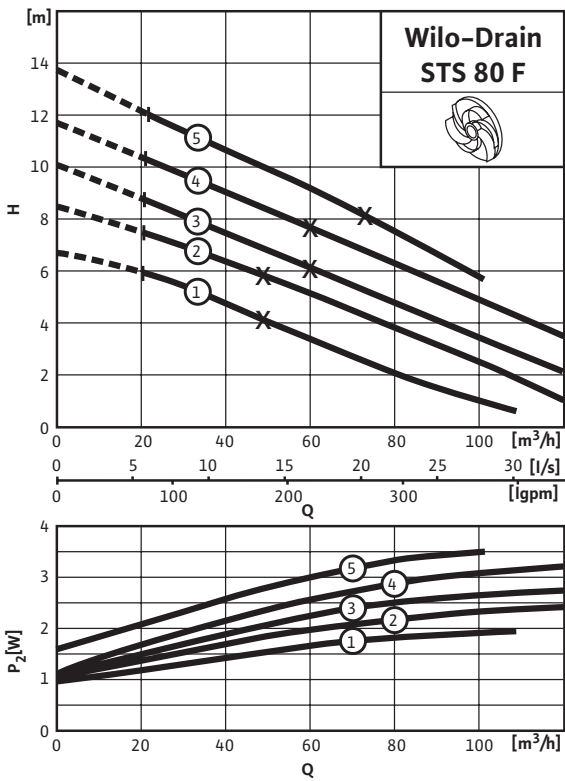
	Wilo-Drain ...							
	STS 80					STS 100		
	F 7.110/20	F 9.120/24	F 10.120/27	F 12.120/32	F 14.100/40	F 10.170/59	F 12.170/72	F 15.170/84
Pump								
Submersion depth, max. [m]	10							
Fluid temperature [°C]	40							
Fluid temperature permissible for short periods [°C]	60							
Fluid density, max. [kg/m ³]	1050							
Cable type	H07 RN-F, round							
Cable length [m]	10							
Cable cross-section 3~400 V [mm ²]	7xG 1.5 strand 6 not occupied					10xG 1.5 strand 9 not occupied		
Plug	CONI					Strands with flat plug		
Type of power cable	OZOFLEX Plus (H07 RN-F)							
Activation type	direct					Star-delta		
Oil volume of oil chamber [l]	0.17					0.35		
Free ball passage [mm]	75					100		
Dimensions								
Discharge port DN	80					100		
Weight [kg]	70					96		
Materials								
Pump housing	EN-GJL-250							
Impeller	EN-GJL-250							
Shaft	1.4021							
Mechanical seal (bidirectional), pump side	SiC/SiC							
Static seals	NBR							
Shaft seal on motor side	NBR							
Motor housing	1.4404							

• = available or authorised, – = not available or not authorised

Pump Curves

STS 80 F

4-pole, 50 Hz



- 1 = STS 80 F 7.110/20
- 2 = STS 80 F 9.120 /24
- 3 = STS 80 F 10.120/27
- 4 = STS 80 F 12.120/32
- 5 = STS 80 F 14.100/40

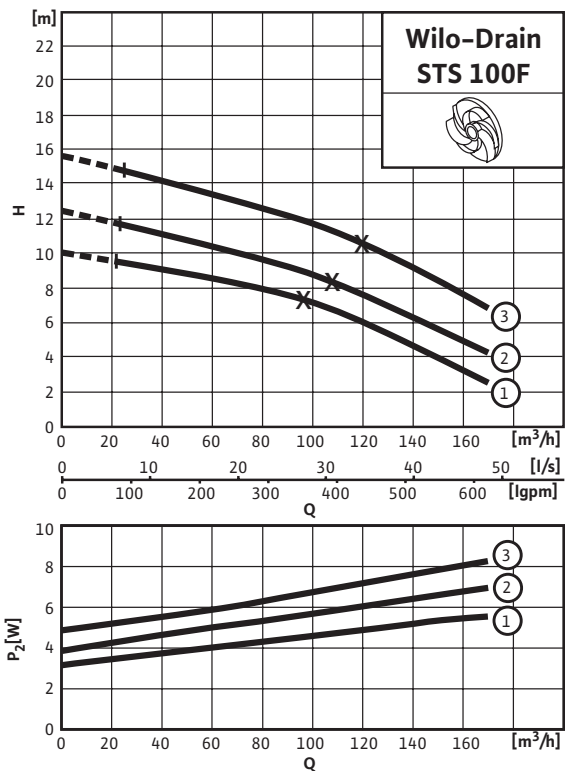
All pump curves shown are based on a density of $\rho = 1 \text{ kg/dm}^3$

I = Q_{\min}
 X = Q_{optimal}

Recommended:
 $Q_{\text{optimal}} +10\% / -20\%$

STS 100 F

4-pole, 50 Hz



- 1 = STS 100 F 10.170/59
- 2 = STS 100 F 12.170/72
- 3 = STS 100 F 15.170/84

All pump curves shown are based on a density of $\rho = 1 \text{ kg/dm}^3$

I = Q_{\min}
 X = Q_{optimal}

Recommended:
 $Q_{\text{optimal}} +10\% / -20\%$

Terminal Diagrams

Terminal diagram Wilo-Drain STS 80

Terminal	U ₁	V ₁	W ₁	WSK	WSK	PE
Wire No.	1	2	3	4	5	green/yellow

3~400 V, 50 Hz

Terminal diagram Wilo-Drain STS 100

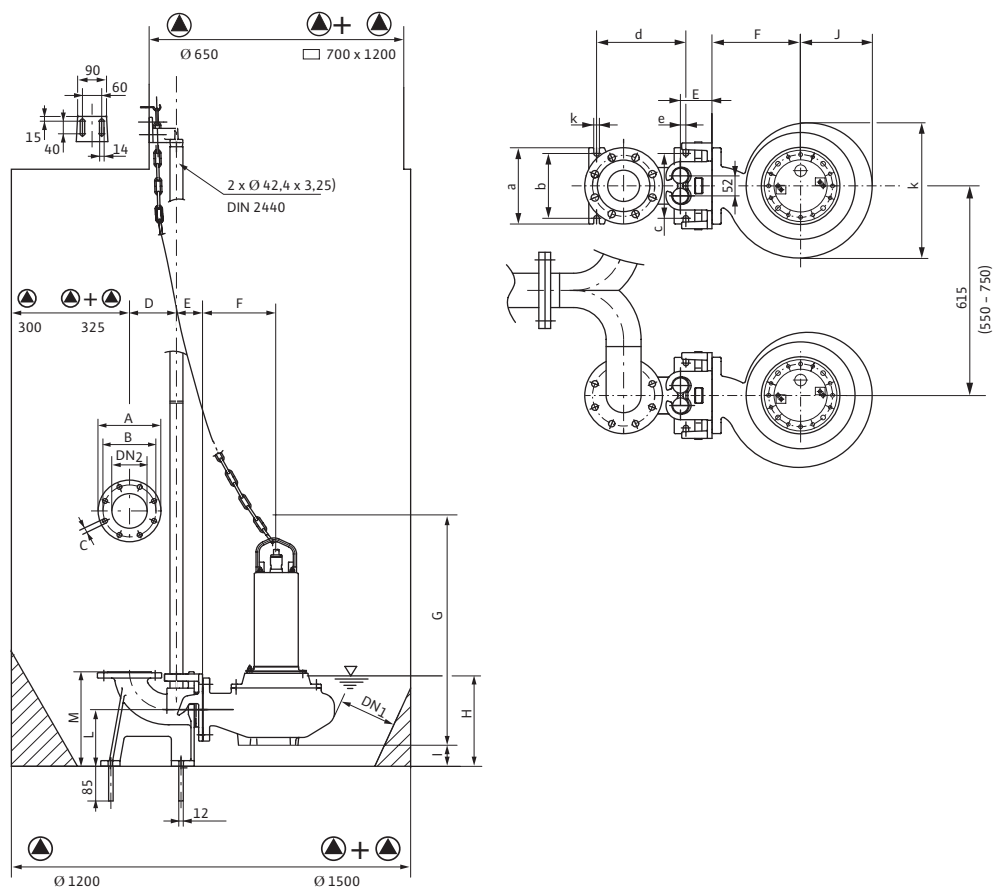
Terminal	U ₁	V ₁	W ₁	V ₂	W ₂	U ₂	WSK	WSK	PE
Wire No.	1	2	3	4	5	6	7	8	0

3~400 V, 50 Hz

Dimension Drawings, Dimensions

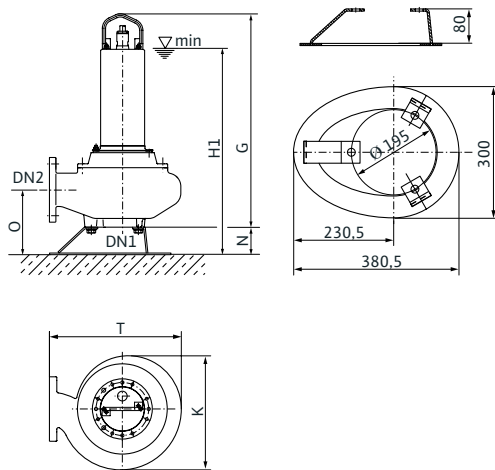
Dimension drawings STS 80

Stationary wet sump installation



Submersible pumps

Portable wet sump installation

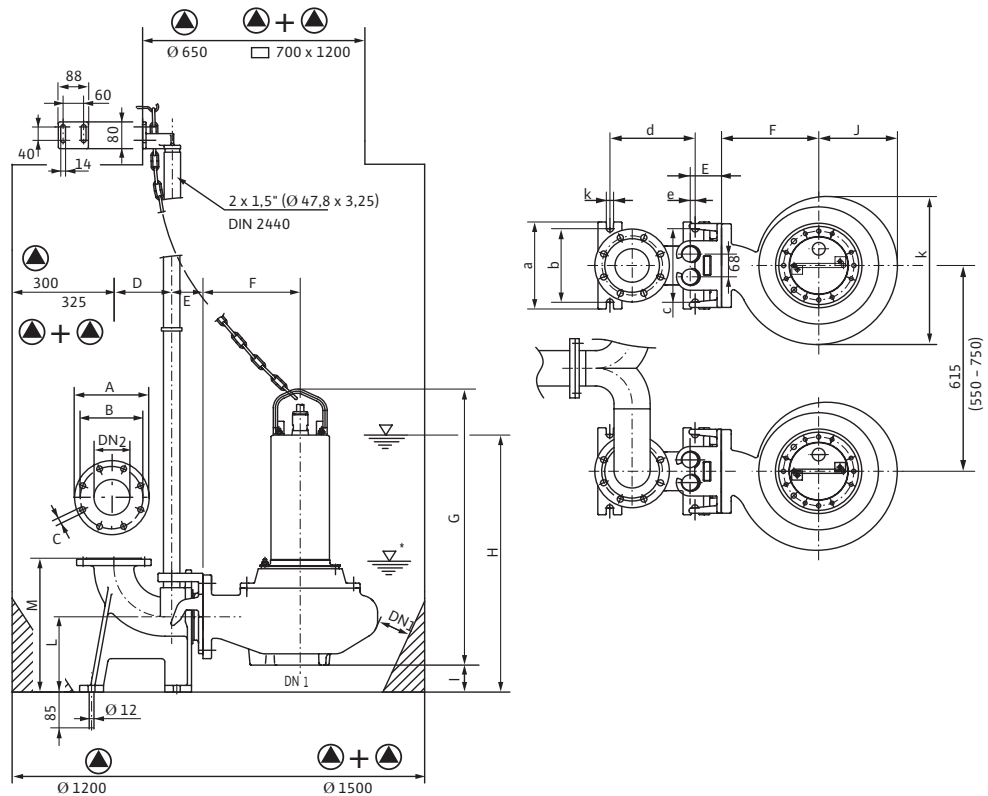


Dimensions

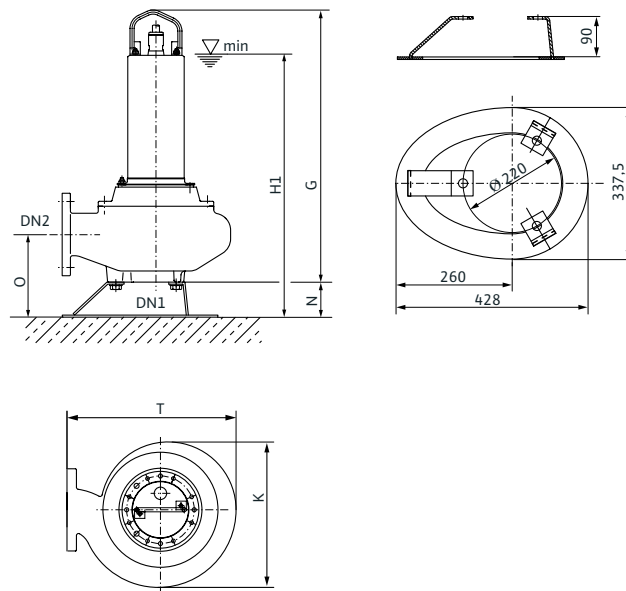
Wilo-Drain STS 80 [mm]												
DN ₁	DN ₂	A	B	C	D	E	F	G	H	I	J	K
80	80	200	160	19	146	81	228	660	300	70	185	355
L	M	a	b	c	d	e	k	H ₁ H	N	O	T	
180	315	200	170	170	220	14	14	635	85	200	409	

Dimension drawings STS 100

Stationary wet sump installation



Portable wet sump installation



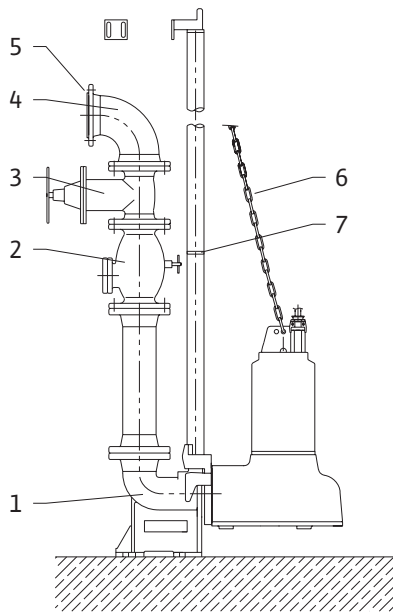
Dimensions

Wilo-Drain STS 100 [mm]												
DN ₁	DN ₂	A	B	C	D	E	F	G	H	I	J	K
100	100	220	180	18	169	91	255	825	780	90	195	440
L	M	a	b	c	d	e	k	H ₁	N	O	T	
225	400	260	220	220	250	15	20	890	90	250	450	

Mechanical Accessories

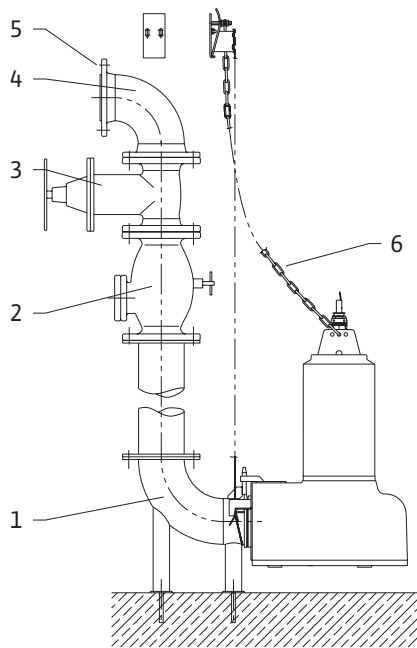
Stationary wet sump installation

STS 80/100, TP 80/100

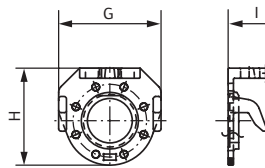
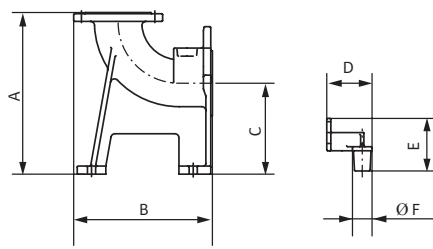


For STC 80/100
see dimension drawing of pump

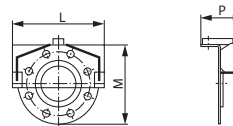
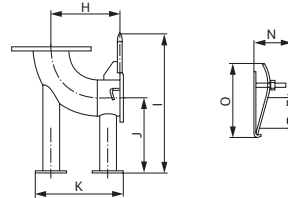
TP 150



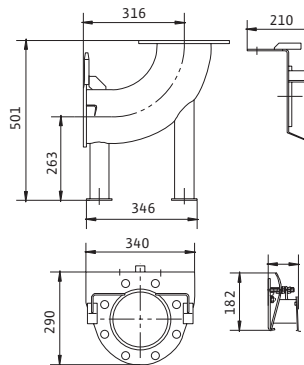
Item 1a



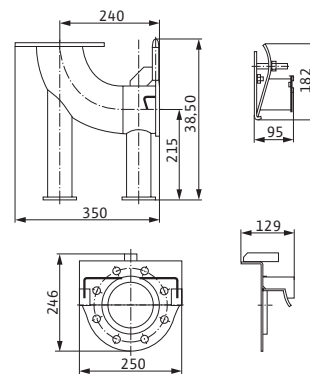
Item 1b



Item 1a



Item 1b



STS, TP: Base elbow (Item 1a)

Made of cast iron 25 (EN-GJL-250) including pump support, profile seal, accessories for mounting and fastening to the ground, and guide pipe bracket, cast iron 25 (EN-GJL-250), flanges PN 10/16 to DIN 2501 for DN 80/100.

Guide pipe (2 x 1.5") must be provided on-site

	STS/TP 80	STS/TP 100
A	300	400
B	303.4	339
C	180	225
D	105	110
E	110	130
F	Ø 40	Ø 48
G	225	250
H	210.5	238
I	118.5	132

or Item 1b

Stainless steel pump support, profile seal, accessories for installation and fastening to the ground, and stainless steel cable guide 10 m for 5 m installation depth, flanges PN 10/16, to DIN 2501
Made of stainless steel, as for item 1a, but with stainless steel cable guide for 5 m installation depth.

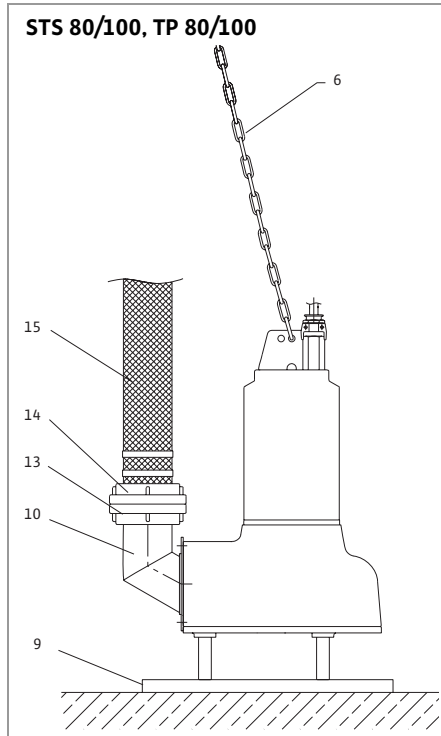
	TP 80	TP 100/150
H	180	240
I	345	385
J	185	215
K	217	350
L	232	250
M	211	246
N	95	95
O	182	182
P	109	129

Stainless steel pump support, profile seal, accessories for installation and fastening to the ground, and stainless steel cable guide 10 m for 5 m installation depth, flanges PN 10/16, to DIN 2501.

Made of cast iron 25 (EN-GJL-250), including pump support, profile seal, and accessories for installation and fastening to the ground. The double pipe guide (R 2) must be provided on-site.

Mechanical Accessories

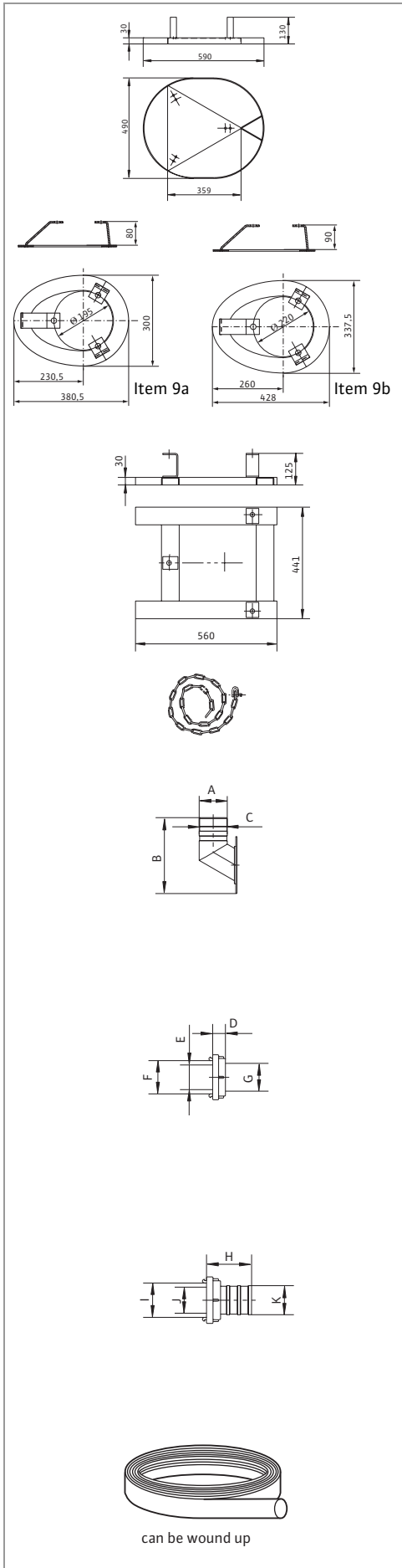
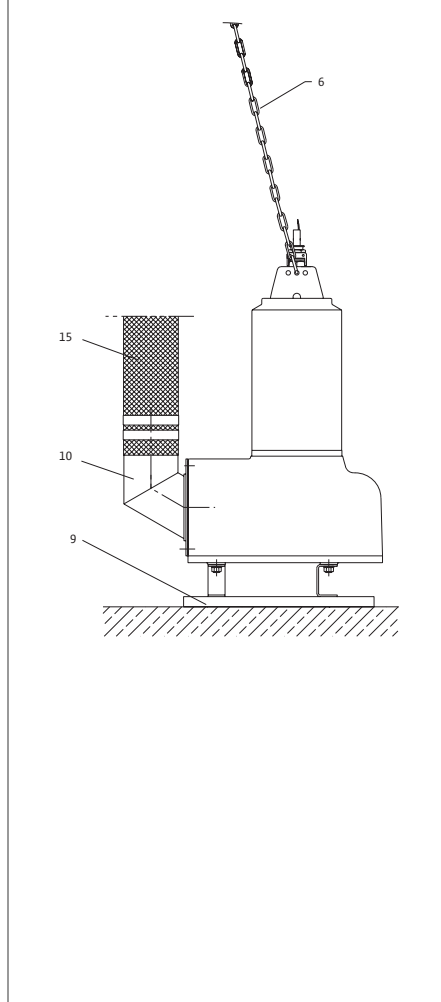
Portable wet sump installation



STS 80/100, TP 80/100

For STC 80/100
see dimension drawing of pump

TP 150



TP 80/100 ground support foot (Item 9)
Made of stainless steel, consists of 3 support feet, 1 base plate and mounting hardware

STS 80 (Item 9a)
STS 100 (Item 9b)
Consists of 3 support feet, 1 base plate and mounting hardware

TP 150 ground support foot (Item 9)
Made of stainless steel, consists of 3 support feet, 1 base plate and mounting hardware

Chain (Item 6)
Made of stainless steel, including shackles, length: 5 m and 10 m, lifting capacity: 400kg

Pipe bend (Item 10)
Made of stainless steel, can be used for direct hose connection or mounting a Storz fixed coupling. Variable set-up possible with 45° hole pitch (TP 100/150)

	DN 80	DN 100	DN 150
A	G 3	G 4	Ø 148
B	240	280	432.5
C	Ø 89	-	-

Storz fixed coupling for mounting to pipe bend (Item 13)

AL, with R3 or R4 female thread for connection nominal diameter 80/100

	DN 80	DN 100
D	40	48
E	Ø 78	Ø 100
F	105	133
G	R 3	R 4

Storz hose coupling (Item 14)

Made of aluminium, for hose inner dia. 90/110 mm

	DN 80	DN 100
H	140	170
I	105	133
J	Ø 80	Ø 100
K	Ø 90	Ø 110

Pressure hose for direct hose connection (Item 15)

Material: Synthetic material PN 8 including 2 hose clips, hose inner diameter 90/110/150 mm, length 10, 20 and 30 m

Pump Equipment/Function

	ER1-A	SK 530	Drain Control PL1	Drain Control PL2	Drain Control 1	Drain Control 2	KAS
Applications							
Switchgear for controlling pumps	•	•	•	•	•	•	–
Alarm switchgear	–	–	–	–	–	–	•
Number of pumps to be controlled	1	2	1	2	1	2	–
Electrical connection							
Direct activation [A]	max.10 ¹⁾	max. 2x8	Max.12	max. 2x12	Max.10	max. 2x10	–
Star/delta connection	optional ¹⁾	–	–	–	> 10 A	> 10 A	–
Design							
Microprocessor-controlled	–	–	•	•	•	•	–
Electronic	•	•	–	–	–	–	•
Housing material							
Plastic	•	•	•	•	•	•	•
Metal	optional	–	–	–	–	–	–
Equipment							
Test run	•	–	•	•	–	–	–
Pump start counter/impulse counter	–	–	•	•	–	–	–
LCD display	–	–	•	•	•	•	–
LED/indicator lamp	•	•	•	•	•	•	–
Main switch	•	–	optional	optional	•	•	–
Ampere meter	optional upon requ.	–	•	•	• ²⁾	• ²⁾	–
Volt meter	optional upon requ.	–	–	–	–	–	–
Adjustable delay time	•	–	•	•	•	•	–
Operating hours counter	optional upon requ.	–	•	•	•	•	–
Level detection	Float switch	• ³⁾	• ³⁾	• ³⁾	• ³⁾	• ³⁾	–
	Pneumatic pressure sensor	–	–	•	•	–	–
	Level sensor (4–20 mA)	–	–	• ⁴⁾	• ⁴⁾	• ⁴⁾	• ⁴⁾
	Electrodes	–	–	–	–	–	•
Alarm	Mains-operated	•	•	•	•	•	–
	Built-in (buzzer)	–	–	•	•	–	•
Pump Duty Cycling	–	•	–	•	–	•	–
Message/display function							
Collective run signal	•	•	–	–	–	–	–
Collective fault signal	•	•	•	•	•	•	–
Individual run signal	–	optional	–	–	•	•	–
Individual fault signal	–	optional	–	•	–	–	–
Control functions (motor monitor)							
Thermal winding contacts (WSK)	•	•	•	•	•	•	–
PTC	•	–	–	–	•	•	–
Leakage (DI)	–	–	–	–	•	•	–
Electronic	•	•	•	•	(up to 10 A)	(up to 10 A)	–
Protective motor switch	–	–	optional	optional	(>10 A)	(>10 A)	–
Scope of delivery							
Float switch	•	•	–	–	–	–	–
Signal horn	•	•	–	–	–	–	–

• = available, – = not available

¹⁾ For other motor power ratings upon request

²⁾ For direct activation units only (up to 4 kW)

³⁾ In potentially explosive areas only with Ex isolating relay

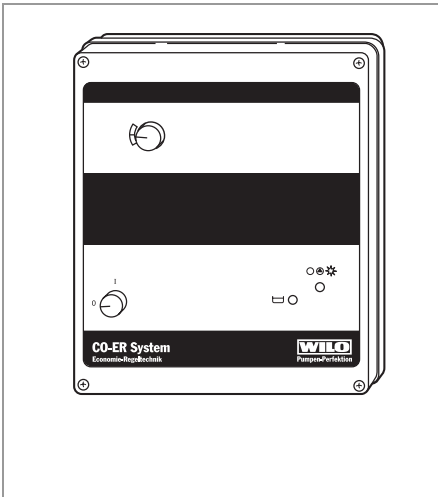
⁴⁾ In potentially explosive areas only with Zener barrier

Pump Equipment/Function

	Drain-Alarm2	Motor protection plug CEE	Isolation relay for explosion protection	Zener barrier	Flashing light	Signal horn	SK 545
Applications							
Switchgear for controlling pumps	–	•	–	–	–	–	–
Alarm switchgear	•	–	–	–	–	–	–
Number of pumps to be controlled	–	1	–	–	–	–	2
Electrical connection							
Direct activation	–	•	–	–	–	–	– External power pack
Star/delta connection	–	–	–	–	–	–	– External power pack
Design							
Electronic	•	–	•	•	•	–	•
Electromechanical	–	•	–	–	–	•	–
Housing material							
Plastic	•	•	•	•	•	•	•
Equipment							
LED/indicator lamp	•	•	•	–	–	–	•
Level detection	Float switch	•	•	–	–	–	–
	Level sensor (4–20 mA)	–	–	–	•	–	–
Alarm	Battery-operated	•	–	–	–	–	–
	Mains-operated	•	–	–	–	–	–
	Built-in (buzzer)	•	–	–	–	–	–
Message/display function							
Individual fault signal	•	–	–	–	–	–	–
Control functions (motor monitor)							
Thermal winding contacts (WSK)	–	•	–	–	–	–	•
Leakage (DI)	–	–	–	–	–	–	•
Protective motor switch	–	•	–	–	–	–	–

• = available, – = not available

Description of Accessories



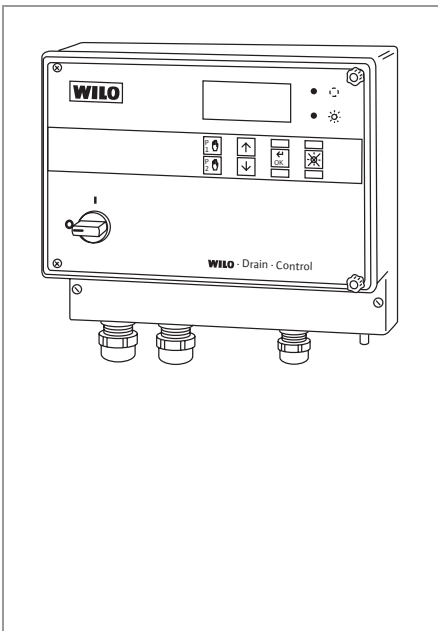
Wilo ER 1-A and Wilo SK 530 switchgears

For automatic transmitter control of 1 or 2 Wilo-Drain series submersible wastewater/sewage pumps.

- W=228 mm, H=265 mm, D=74 mm
- Protection class IP 42
- Switchover from pump 1 – pump 2 (SK 530)
- Motor protection by WSK or electronic motor switch
- Transmitter connection for float switch, Type WA 95
- Automatic pump duty cycling (SK 530)
- Selector switches:
 - "Hand-2-Hand-1-0-Automatic" system (SK 530)
 - "Hand-0-Automatic" system (ER 1-A)
- Connection for high water alarm
- Volt-free fault signal (changeover contact) and volt-free run signal (changeover contact),
- Phase failure monitor (can be switched off)
- Includes float switch WA 65, cable length 5 m (2x for ER 1-A, 3x for SK 530) and 230 V signal horn (requires external power supply), included separately in delivery

For control of pumps in potentially explosive areas, Ex isolating relays must be used.

Switchgears are not explosion-protected and may be used outside of potentially explosive areas only.



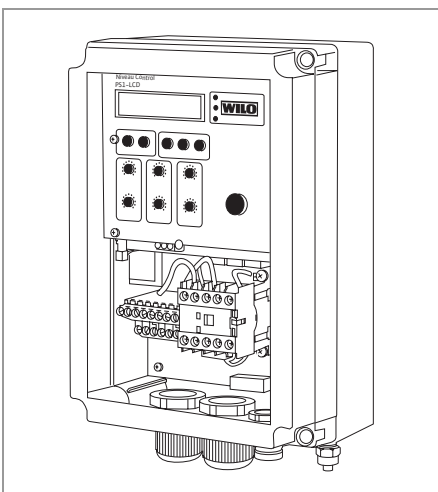
Wilo-DrainControl

Microprocessor-controlled switch unit for the fully automatic control of 1 or 2 Wilo-Drain submersible wastewater/sewage pumps.

- Hand-0-Automatic switch above membrane keyboard
- Two-line LCD display with 2 x 16 characters, multi-lingual, menu-controlled operation possible using membrane keyboard
- Input terminals for connecting a level probe
- Automatic phase failure and phase sequence control
- Operating hours counter
- Automatic pump duty cycling (Control 2) after each operation sequence
- Volt-free contacts for:
 - Collective fault signal
 - Signal horn (make contact)
 - Pump 1 operation (make contact)
 - Pump 2 operation (make contact) Control 2 only
 - Main switch
 - Built-in electronic motor current monitoring
- max. ambient temperature 40 °C
- Housing: Plastic for wall installation
- Type of start-up: Direct or star-delta

For control of pumps in potentially explosive areas, a level probe (with Zener barrier!) or float switch in conjunction with Ex isolating relays must be used.

Switchgears are not explosion-protected and may be used outside of potentially explosive areas only.



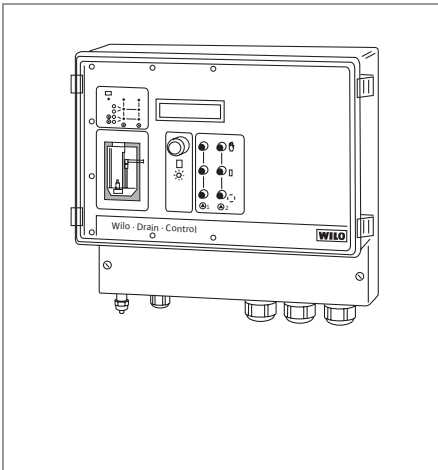
Wilo-DrainControl PL 1

Switchgear for level control of 1 submersible pump using the bubbling-through or dynamic pressure method.

- LCD display
- LEDs for alarm, operation/delay time, manual/automatic operation
- Volt-free contacts for collective fault signal and high water alarm
- Forced switch-on of the pump
- Time-delayed pump stop
- Built-in buzzer
- Operating hours counter

Switchgears are not explosion-protected and may be used outside of potentially explosive areas only.

Description of Accessories



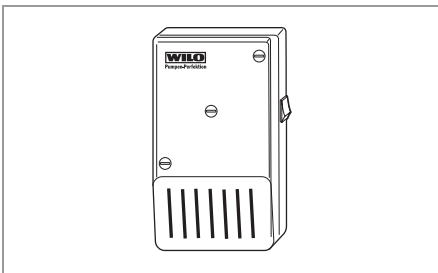
Wilco-DrainControl PL 2

Switchgear for level control of 2 submersible pumps. The level can be detected using the bubbling-through or dynamic pressure method or using an electronic level sensor (4 – 20 mA) or float switch.

- LCD display, multi-lingual, adjustable
- LEDs for alarm, operation/delay time, manual/automatic operation
- Volt-free contacts for collective fault signal and high water alarm, pump 1 fault, pump 2 fault
- Forced switch-on of the pump
- Time-delayed pump stop
- Automatic pump duty cycling after each operation sequence
- Automatic fault switchover
- Built-in buzzer
- Operating hours, pump start counters

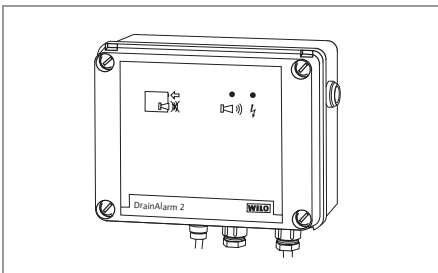
For control of pumps in potentially explosive areas, a level probe with Zener barrier or float switch in conjunction with Ex isolating relays must be used.

Switchgears are not explosion-protected and may be used outside of potentially explosive areas only.



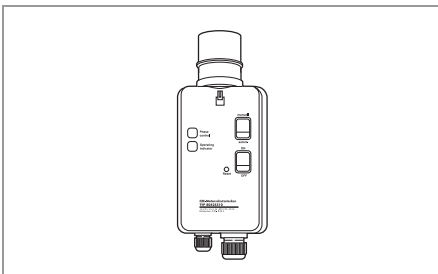
Wilco KAS

Mini alarm switchgear with 70 dBA signal bell, signal transmitter (electrode) with 3 m cable, self-recharging power supply pack (power reserve approx. 5 hrs.) in ISO plug housing (Schuko), protection class IP 30, 230 V \sim / 9V \approx ; 1.5 VA.



Wilco Drain-Alarm 2

Alarm switchgear for wall installation with visual and acoustic alarm signal (85 dBA buzzer, self-recharging power supply pack, volt-free contact, ISO housing, protective class IP 54, 1 \sim 230 V. As the transmitter, a WA type float switch is required.

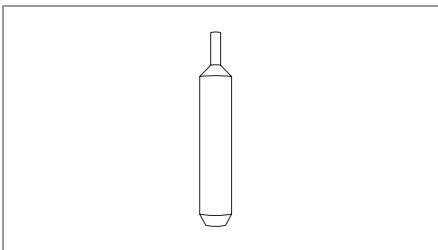


Protective motor switch CEE

(Up to rated motor power $P_2 < 4$ kW) with phase inverter and rotation direction indicator, thermal motor protection of the motor. Current ranges:

- 2.6 – 3.7 A
- 3.7 – 5.5 A
- 5.5 – 8 A
- 8 – 11.5 A

For TP 80/TP 100, evaluation of the thermal motor protection and leak monitoring.

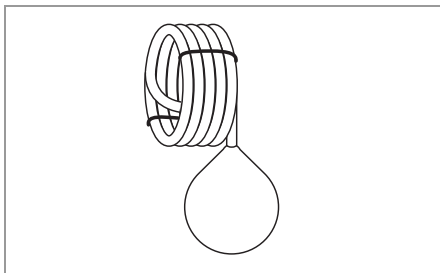


Level probe

For level detection.

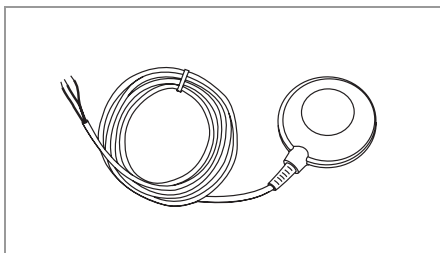
- Protection class IP 68
- Measurement range 0 – 1 m WS; 0 – 2.5 m WS
- Cable lengths 10, 30 or 50 m
- Output signal 4 – 20 mA

Description of Accessories



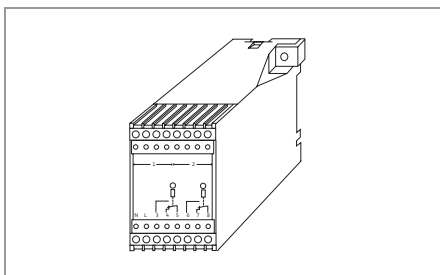
Float switch MS1

Cable length 10 m, for sewage containing faeces, for connection to a Wilo-DrainControl 1 or 2.



Type WA Float Switch

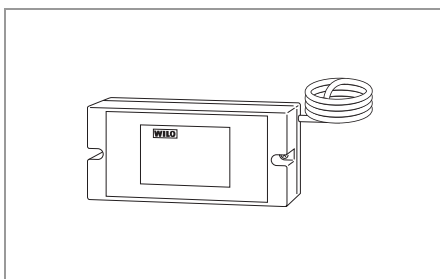
Cable length 5 m, switch setting: high ON/low OFF
 WA 65 for media up to 65 °C
 WA 95 for media up to 95 °C



Ex isolating relay

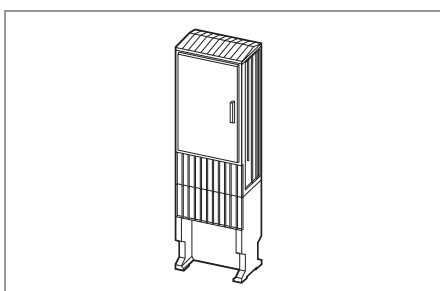
For installation of float switches in potentially explosive areas. Suitable for connection of 3 – 5 float switches. Built into an ISO housing, protection class IP 54, with transparent cover, for wall mounting (W = 182 mm, H = 180 mm, D = 165 mm).

- 3-circuit (3 float switches can be connected)
- 4-circuit (4 float switches can be connected)
- 5-circuit (5 float switches can be connected)



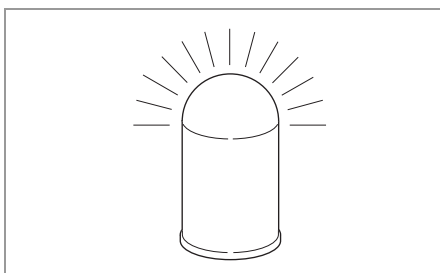
Zener barrier

For installation of a level probe in potentially explosive areas. Suitable for connection of a level sensor. Protection class IP40, housing for installation in non-potentially explosive areas (W = 75 mm, H = 150 mm, D = 106 mm). 1 m pre-attached cable.



Switch cabinet - outdoor installation of Wilo-Drain-System

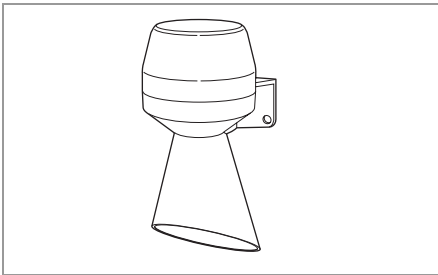
Empty cabinet for outdoor installation, with glass fibre-reinforced polyester, with lock, air supply and exhaust. For pedestal mounting. Additional options such as ammeter, volt meter, heating, etc. feasible on request and can, if required and in conjunction with a Wilo-Drain-Control, be supplied assembled in the switch board (at extra costs). (W = 590 mm, D = 320 mm, H = 875 mm)



Flashing light

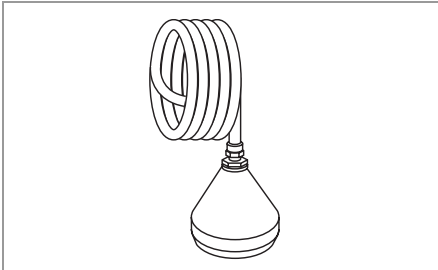
For installation on control cabinet, outdoor installation, 230 VAC

Description of Accessories



Signal horn

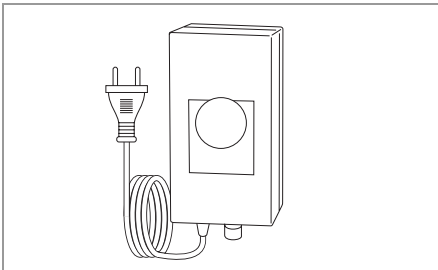
For connecting to a Wilo-DrainControl, 230 VAC



Dynamic pressure system

The pressure sensor (bell) senses changes of the fluid level in the shaft. The change of the pressure value in the bell is transmitted to the Wilo-DrainControl PL via a leak-proof hose, and evaluated by measuring elements in the switch box.

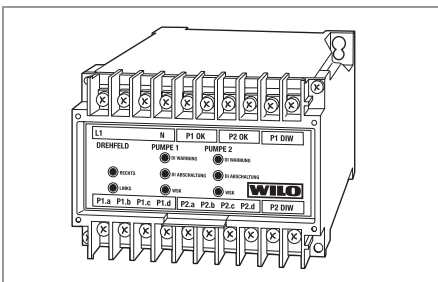
Scope of delivery: Submersible bell with 10 m hose



Bubble-through system

Dynamic pressure principle with permanent compressed air supply from the mini air compressor. The bell (dynamic pressure system) must be ordered separately.

Scope of delivery: Mini air compressor, 3 m hose with T-piece and non-return valve



Wilo-SK 545

Trigger device for monitoring of up to 2 Wilo TP 80,100 or 150 submersible pumps

- For installation into existing switchgear or as a module for conventionally designed switchgears, installation on 35 mm top hat rail
- Phase sequence monitoring
- 2-stage leak monitoring
- Thermal winding monitoring (WSK)
- Operating voltage 3~400 V max. 6 A fuse protection
- Volt-free output contacts, max. load 250 V/1 A
- Dimensions : H = 72mm, W = 100mm, D = 113mm