

Grundfos Water, Waste Water Products

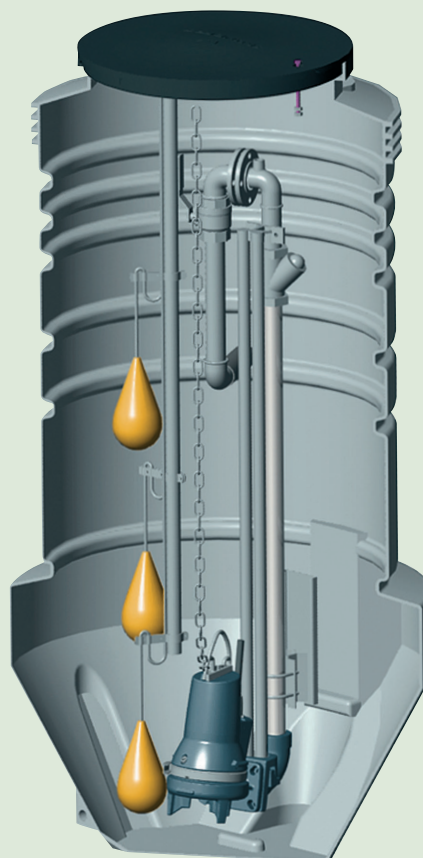
Price List June 2022

Category 3A



PRODUCTS INCLUDED:

SQ(E), SB
SP, SP-G
DP, EF, SEG
SL, SLV
SE1
SEV, SV
PS.R.12



PLEASE NOTE THE FOLLOWING FROM OUR TERMS AND CONDITIONS OF SALE:

A copy of our full terms and conditions are available at the back of this price list & all prices are delivered at place (DAP) and subject to VAT at the standard rate.

MINIMUM ORDER VALUE

Our minimum order value is **£55.00 NET**. Orders between the minimum order value and the low order threshold of **£335.00 NET** for pumps or **£130.00 NET** for Category 4, S1,S2,S3,S4 items will be subject to a **£37.00 NET** handling fee.

EXPRESS DELIVERY OPTIONS;

INTERSPEED (PER ITEM) (above 150 Kgs – subject to transport availability and additional cost)

- CR(I)(E), CRN(E) Vertical Multistage
- Non-stock SP/SPA models (with or without drop cable cut in 5 metre increments. Please note; resin cable joint will take 24 hours to set)
- Order must be received electronically by **10.45am** – despatch same day, **delivery by Express Carrier Service** – UK (*note restrictions apply)
£120.00 NET (PER ITEM)

BOXSPEED (PER ITEM) – (above 100 Kgs – subject to transport availability and additional cost)

- ALPHA, UPS, UPN, UPS3/UPM Circulators
- Magna (D) Glandless Circulators
- UP/UPS/Magna Replacement Heads/Terminal boxes
- TPE(D), NB(E) Glanded
- CM, CME Horizontal Multistage
- JP, MQ and Tanks/Vessels (up to 500 Litre)
- CMB(E), Boosters, Scala
- AP, KP, CC, SL1, SLV, Unilift, Sololift
- SQ, SQE, SB(A), SP2A, 3A & 5A >1.5kW (Excluding pumps with cable fitted as well as SP longer than 2.4 metres)
- Motors, Flanges & Unions, Pump Components, Chamber Stacks
- Order must be received electronically before **13:30pm** – despatch same day, **delivery by Express Carrier Service** – UK (*note restrictions apply)
FIRST ITEM - £90.00 NET & ADDITIONAL ITEMS £40.00 EACH (PER ORDER)

SPARESPEED (PER ITEM)

- Only applies to spares kits, (not chamber stacks, components, pump heads or terminal boxes)
- Order must be received electronically before **13:30pm** – despatch same day, **delivery by Express Carrier Service** – UK (*note restrictions apply)
FIRST ITEM - £75.00 NET & ADDITIONAL ITEMS £35.00 EACH (PER ORDER)

* Express Carrier Service ONLY guaranteed if placed on time via Extranet/EDI. Deliveries to the Highlands, certain mainland post codes and offshore UK may take an extra day. All services are dependent on component and product availability. Grundfos can guarantee despatch or availability for collection same day but cannot guarantee delivery. Grundfos cannot accept any cancellations or amendments once the goods have been despatched. Cancellations are subject to the Product Returns Fee below. **BREXIT - Express delivery cut off times for deliveries into the UK from an EU have changed from 1:30PM to 10:00AM & all deliveries to Northern Ireland will all be despatched from our DC in Sunderland only.**

SPARES STANDARD DELIVERY CHARGE

- A **£30.00 NET** handling fee will be applied, per order, to all orders for spares, pump components, spares kits.
- This charge does NOT apply if **SPARESPEED**, express service or our online ordering system (EDI), and/or Extranet are used for order placement.

PRODUCT RETURNS FEE

- On receipt of written agreement from Grundfos, items can be returned and will be subject to a minimum **35%** restocking fee. Goods must be returned in their original packaging and within **6 months of date of despatch**. All returns will be subject to inspection, to ascertain age, condition and product type and can incur an increased restocking charge. Please contact grundfos-uk@sales.grundfos.com with the original purchase order, to arrange collection. Do not send items to Grundfos as they will be refused delivery, collection will be arranged.

Exclusions to Product Returns apply;

- Items with a NET value of £150.00 or less (per item).
- All Service kits, cable including attached to pump, assembled/engineered to order product and obsolete/phased out product cannot be returned.

STORAGE CHARGE

- There will be a **2%** storage charge of the item invoice value, payable per month, commencing one month from the date the goods were available for delivery from Grundfos.

WARRANTY PERIOD

- Grundfos pumps are warranted for 24 months from installation or 30 months from manufacture; whichever is the sooner.
- There is a five-year warranty that covers manufacturing or material defects on domestic heating circulators: UPS3 15-50/65, UPS2 15-50/60, ALPHA models, Amazon & Amazon Universal shower pumps. From 1st March 2017 SCALA2 booster pumps when used in domestic applications were included.
- From 1st February 2020 there is a 5 year guarantee scheme Grundfos Go Guarantee, available on all MAGNA3, TPE, NBE and NKE models (conditions apply).

SERVICE AND COMMISSIONING

Grundfos offers a wide range of service, repair and commissioning options. Please contact Service on 01525 850000 or email service-uk@sales.grundfos.com

ORDER TRACKING AND PROOF OF DELIVERY

- Order status and Proof of Delivery can be obtained via Grundfos Extranet or MyGrundfos online portals.
- For extranet access contact grundfos-uk@sales.grundfos.com. Self-registration for MyGrundfos can be found here; <https://uk.grundfos.com/mygrundfos>

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CATEGORY 3 - 5" SUBMERSIBLE PUMPS

Model	P1 kW	Float switch	1x220-240V 50Hz	
			£	Product Code
SB WITH INTEGRATED SUCTION STRAINER				
SB 3-25 M	0.57	NO	485	97686698
SB 3-25 A	0.57	YES	505	97686699
SB 3-35 M	0.80	NO	523	97686700
SB 3-35 A	0.80	YES	542	97686701
SB 3-45 M	1.05	NO	576	97686704
SB 3-45 A	1.05	YES	597	97686705
SB WITH FLOATING SUCTION STRAINER				
SB 3-35 MW	0.80	NO	669	97686702
SB 3-35 AW	0.80	YES	690	97686703
SB 3-45 MW	1.05	NO	703	97686706
SB 3-45 AW	1.05	YES	728	97686707
SBA WITH INTEGRATED SUCTION STRAINER				
SBA 3-35 M	0.80	NO	646	97896285
SBA 3-35 A	0.80	YES	684	97896286
SBA 3-45 M	1.05	NO	682	97896289
SBA 3-45 A	1.05	YES	718	97896290
SBA WITH FLOATING SUCTION STRAINER				
SBA 3-35 MW	0.80	NO	803	97896287
SBA 3-35 AW	0.80	YES	840	97896288
SBA 3-45 MW	1.05	NO	838	97896311
SBA 3-45 AW	1.05	YES	874	97896312

SB - without control

SBA - automatic with integrated control unit

PUMP VERSION

Integrated suction strainer with float switch

Integrated suction strainer without float switch

Side inlet and floating strainer with float switch

Side inlet and floating strainer without float switch

ELECTRIC MOTOR

220-240V / 1ph / 50Hz

IP68 enclosure

All models with 15m cable with Schuko plug

Temperature range: 0-40°C

Model

A

M

AW

MW



CATEGORY 3 - SQ/SQE 3" SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED ELECTRIC MOTOR

1x200-240V 50Hz/60Hz			1x200-240V 50Hz/60Hz			P2	
	£	Product Code		£	Product Code	kW	Discharge
SQ 1-35	1,230	96510178	SQE 1-35	1,252	96510071	0.70	Rp 1"1/4
SQ 1-50	1,327	96510179	SQE 1-50	1,359	96510141	0.70	Rp 1"1/4
SQ 1-65	1,430	96510190	SQE 1-65	1,460	96510142	0.70	Rp 1"1/4
SQ 1-80	1,725	96510191	SQE 1-80	1,760	96510143	1.15	Rp 1"1/4
SQ 1-95	1,796	96510192	SQE 1-95	1,833	96510144	1.15	Rp 1"1/4
SQ 1-110	1,867	96510193	SQE 1-110	1,896	96510145	1.15	Rp 1"1/4
SQ 1-125	2,226	96510194	SQE 1-125	2,272	96510146	1.68	Rp 1"1/4
SQ 1-140	2,299	96510195	SQE 1-140	2,346	96510147	1.68	Rp 1"1/4
SQ 1-155	2,370	96510196	SQE 1-155	2,420	96510148	1.85	Rp 1"1/4
SQ 2-35	1,270	96510198	SQE 2-35	1,301	96510150	0.70	Rp 1"1/4
SQ 2-55	1,349	96510199	SQE 2-55	1,378	96510151	0.70	Rp 1"1/4
SQ 2-70	1,495	96510200	SQE 2-70	1,526	96510152	1.15	Rp 1"1/4
SQ 2-85	1,672	96510201	SQE 2-85	1,707	96510153	1.15	Rp 1"1/4
SQ 2-100	2,075	96510202	SQE 2-100	2,118	96510154	1.68	Rp 1"1/4
SQ 2-115	2,149	96510203	SQE 2-115	2,192	96510155	1.85	Rp 1"1/4
SQ 3-30	1,221	96510204	SQE 3-30	1,247	96510156	0.70	Rp 1"1/4
SQ 3-40	1,292	96510205	SQE 3-40	1,320	96510157	0.70	Rp 1"1/4
SQ 3-55	1,495	96510206	SQE 3-55	1,526	96510158	1.15	Rp 1"1/4
SQ 3-65	1,672	96510207	SQE 3-65	1,707	96510159	1.15	Rp 1"1/4
SQ 3-80	2,075	96510208	SQE 3-80	2,118	96510160	1.68	Rp 1"1/4
SQ 3-95	2,149	96510209	SQE 3-95	2,192	96510161	1.68	Rp 1"1/4
SQ 3-105	2,220	96510210	SQE 3-105	2,265	96510162	1.85	Rp 1"1/4
SQ 5-15	1,207	96510211	SQE 5-15	1,232	96510163	0.70	Rp 1" 1/2
SQ 5-25	1,235	96510212	SQE 5-25	1,285	96510164	0.70	Rp 1" 1/2
SQ 5-35	1,495	96510213	SQE 5-35	1,526	96510165	1.15	Rp 1" 1/2
SQ 5-50	1,672	96510214	SQE 5-50	1,707	96510166	1.15	Rp 1" 1/2
SQ 5-60	2,149	96510215	SQE 5-60	2,192	96510167	1.68	Rp 1" 1/2
SQ 5-70	2,220	96510217	SQE 5-70	2,265	96510168	1.85	Rp 1" 1/2
SQ 7-15	1,653	96510218	SQE 7-15	1,686	96510169	0.70	Rp 1" 1/2
SQ 7-30	1,796	96510219	SQE 7-30	1,833	96510170	1.15	Rp 1" 1/2
SQ 7-40	2,299	96510220	SQE 7-40	2,346	96510171	1.68	Rp 1" 1/2

ELECTRIC MOTOR

1ph 200-240V (-10% +6%) 50-60Hz

IP58 Class F insulation

Supplied with 1.5m cable with plug

PUMP

SQ in stainless steel 304

Impellers in composite

316 stainless steel versions available on request.

CONTROL UNIT

A Grundfos control unit must be used with the Grundfos SQE pump.

See page 6 for details.

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 6 for details.



CATEGORY 3 - SQ/SQE 3" SUBMERSIBLE BOREHOLE PUMPS

PRESSURE MANAGER

		1x220-240V 50Hz/60Hz	
Model	Max load	£	Product Code
PM1 15	cut in 1.5 bar, cut out at no flow.	255	96848670
PM1 22	cut in 2.2 bar, cut out at no flow.	255	96848701
PM2	cut in adjustable between 1.5 and 5.5 bar, cut out at no flow.	294	96848738

IP65

Max liquid temperature: 40°C

Max ambient temperature: 50°C



Note - The Pressure Managers are Category 4 spares items for discount purposes

ACCESSORIES FOR SQ/SQE PUMPS

SQ Accessories	£	Product Code
Pressure gauge 0-10 bar, 63mm dia, 1/4" BSP (liquid filled)	68	00ID8048
Flow sleeve Ø88mm in 304 stainless steel, strainer & horizontal supports	489	98148594

Submersible round drop cable

Drop cable 3 x 1.5mm ² per metre	18	00ID7946
Drop cable 3 x 2.5mm ² per metre	18	00ID7947
Drop cable 3 x 4.0mm ² per metre	16	00ID7948
Drop cable 3 x 6.0mm ² per metre	21	00RM4098

Extra joints supplied loose for fitting by others.

Heat shrink cable joint, 3 x 1.5-6.0mm ²	55	96021473
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Note - The Accessories are Category 4 spares items for discount purposes

ACCESSORIES FOR SQE PUMPS

	£	SQE Product Code
CU301 Control Box (Domestic for constant pressure control)	536	96436753
CU300 Control Box (Commercial)	616	96422775
Pressure Sensor Kit 0-6 bar, 1/2" BSP connection and 2m screened cable	334	405168
SPP Potentiometer	328	625468
Level Sensor with 30m Cable	5,577	96591275
Level Sensor with 65m Cable	5,575	96037490

Note - Accessories are Category 4 spares items for discount purposes.

SQE CONSTANT PRESSURE PACK

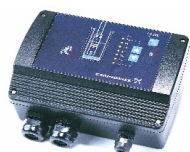
	P2 kW	Drop cable	£	Product Code
SQE 2-55 (CPP)	0.70	3x1.5mm ² 40m	2,827	96524505
SQE 2-85 (CPP)	1.15	3x1.5mm ² 60m	3,504	96524506
SQE 3-65 (CPP)	1.15	3x1.5mm ² 40m	3,144	96524501
SQE 5-70 (CPP)	1.85	3x1.5mm ² 40m	3,423	96524503

The below Constant Pressure Pack 96524504 is included in the above SQE Constant Pressure System.

CONSTANT PRESSURE PACK FOR ANY SQE PUMP

	£	Product Code
CU301 Control box, GT-H-8 8L G3/4" PN10 vessel, 0-6 bar pressure transducer, 0-10 bar pressure gauge (63mm, 1/4"), 3/4" isolating valve and cable clips (20 units)	1,129	96524504

Constant Pressure Pack sold with a single SQE unit normally requires the cable joint and drop cable - not included



CU 301



CU 300



SQE CONSTANT PRESSURE PACK

CATEGORY 3 - SQ FLEX RENEWABLE ENERGY SUBMERSIBLE PUMPS

SQF PUMPS IN 304 STAINLESS STEEL

Model	£	Product Code	Model	£	Product Code	Discharge	Max pump diameter
SQF 0.6-2	2,579	95027324	SQF 0.6-2 N	2,705	95027325	Rp 1"1/4	74mm
SQF 0.6-3	2,579	95027326	SQF 0.6-3 N	2,705	95027327	Rp 1"1/4	74mm
SQF 1-30	1,712	98842452	SQF 1-30 N	1,831	98842517	Rp 1"1/4	74mm
SQF 1.2-2	2,579	95027328	SQF 1.2-2 N	2,705	95027329	Rp 1"1/4	74mm
SQF 1.2-3	2,576	96834838	SQF 1.2-3 N	2,704	96834839	Rp 1"1/4	74mm
SQF 2.5-2	2,579	95027330	SQF 2.5-2 N	2,705	95027331	Rp 1"1/4	74mm
SQF 3A-10	2,522	95027336	SQF 3A-10 N	2,647	95027337	Rp 1"1/4	101mm
SQF 5A-3	2,522	95027338	SQF 5A-3 N	2,647	95027339	Rp 1"1/2	101mm
SQF 5A-7	2,522	95027342	SQF 5A-7 N	2,647	95027343	Rp 1"1/2	101mm
SQF 7-4	2,519	98979253	SQF 7-4 N	2,723	98994936	Rp 1"1/2	101mm
SQF 9-3	2,519	98978826	SQF 9-3 N	2,723	98994667	Rp 2"	101mm
SQF 14-3	2,519	98979255	SQF 14-3 N	2,723	98994934	Rp 2"	101mm

ELECTRIC MOTOR

30-300 VDC
90-240 VAC 1ph 50/60Hz
Max current: 8.4A
IP 68

PUMP

SQF in 304 stainless steel
SQF-N in 316 stainless steel
Composite impellers

CONTROL UNITS

	Voltage	£	Product Code
IO 50 Switch box	Max 300 VDC	140	97907253
IO 101 (115V) Switch box	Max 225 VDC	860	96481502
IO 101 (230V) Switch box	Max 225 VDC	860	96475074
CU 200 control unit	30-300 VDC	869	96625360

SOLAR MODULES

		£	Product Code
Array-to-controller wire kit (10m)	1 unit per SQ Flex system	82	98257868
Array-to-array wire kit **		72	98257892

* Minimum quantities apply

** Max number of panels per array: 6. Every array must have the same number of panels.

DROP CABLE

	£	Product Code
Drop cable 3 x 2.5mm per metre	18	00ID7947
Drop cable 3 x 4.0mm per metre	16	00ID7948
Drop cable 3 x 6.0mm per metre	21	00RM4098

CABLE JOINTS

	£	Product Code
Extra joints supplied loose for fitting by others		
Heat shrink cable joint, 3 x 2.5-6.0mm ²	55	96021473

LEVEL SWITCH

	£	Product Code
Level switch for SQ Flex with 3m cable	120	16650

FLOW SLEEVES

	£	Product Code
For SQFlex 3" standard version (EN 1.4301/AISI 304)	520	98253259
For SQFlex 4" standard version (EN 1.4301/AISI 304)	446	98255476

Includes strainer and support brackets for horizontal installation

Note - The accessories are Category 4 spares items for discount purposes.



CATEGORY 3 - SP 1A, 2A AND 3A SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

P2				240V 1ph 50Hz		380-415V 3ph 50Hz	
Model	kW	Discharge	Motor	£	Product Code	£	Product Code
SP1A-9	0.37	Rp 1"1/4	MS 402	1,013	08002E09	996	08001K09
SP1A-14	0.37	Rp 1"1/4	MS 402	1,127	08002E14	1,110	08001K14
SP1A-18	0.55	Rp 1"1/4	MS 402	1,137	08002E18	1,184	08001K18
SP1A-21	0.55	Rp 1"1/4	MS 402	1,275	08002E21	1,235	08001K21
SP1A-28	0.75	Rp 1"1/4	MS 402	1,427	08002E28	1,384	08001K28
SP1A-36	1.1	Rp 1"1/4	MS 402	2,191	08102E36	2,620	08101K36
SP1A-42	1.1	Rp 1"1/4	MS 402	2,950	08102E42	2,872	08101K42
SP1A-50	1.5	Rp 1"1/4	MS 402	3,410	08102E50	3,329	08101K50
SP1A-57	1.5	Rp 1"1/4	MS 402	3,698	08102E57	3,618	08101K57
SP2A-6	0.37	Rp 1"1/4	MS 402	986	09002E06	969	09001K06
SP2A-9	0.37	Rp 1"1/4	MS 402	1,035	09002E09	1,018	09001K09
SP2A-13	0.55	Rp 1"1/4	MS 402	1,164	09002E13	1,122	09001K13
SP2A-18	0.75	Rp 1"1/4	MS 402	1,279	09002E18	1,237	09001K18
SP2A-23	1.1	Rp 1"1/4	MS 402	1,439	09002E23	1,398	09001K23
SP2A-28	1.5	Rp 1"1/4	MS 402	1,651	09002E28	1,570	09001K28
SP2A-33	1.5	Rp 1"1/4	MS 402	1,733	09002E33	1,653	09001K33
SP2A-40	2.2	Rp 1"1/4	MS 4000 / 402	3,764	09102E40	3,070	09101K40
SP2A-48	2.2	Rp 1"1/4	MS 4000 / 402	4,097	09102E48	3,444	09101K48
SP2A-55	3	Rp 1"1/4	MS4000	-	-	4,160	09101K55
SP2A-65	3	Rp 1"1/4	MS4000	-	-	4,700	09101K65
SP2A-75	4	R 1"1/4	MS4000	-	-	9,324	09301K75
SP2A-90	4	R 1"1/4	MS4000	-	-	10,576	09301K90
SP3A-6	0.37	Rp 1"1/4	MS 402	1,101	10002E06	1,076	10001K06
SP3A-9	0.55	Rp 1"1/4	MS 402	1,214	10002E09	1,137	10001K09
SP3A-12	0.75	Rp 1"1/4	MS 402	1,305	10002E12	1,257	10001K12
SP3A-15	1.1	Rp 1"1/4	MS 402	1,441	10002E15	1,397	10001K15
SP3A-18	1.1	Rp 1"1/4	MS 402	1,495	10002E18	1,450	10001K18
SP3A-22	1.5	Rp 1"1/4	MS 402	1,708	10002E22	1,617	10001K22
SP3A-25	1.5	Rp 1"1/4	MS 402	1,761	10002E25	1,674	10001K25
SP3A-29	2.2	Rp 1"1/4	MS 4000 / 402	2,609	10002E29	1,900	10001K29
SP3A-33	2.2	Rp 1"1/4	MS 4000 / 402	2,759	10002E33	2,051	10001K33
SP3A-39	3	Rp 1"1/4	MS4000	-	-	3,788	10101K39
SP3A-45	3	Rp 1"1/4	MS4000	-	-	4,061	10101K45
SP3A-52	4	Rp 1"1/4	MS4000	-	-	4,552	10101K52
SP3A-60	4	Rp 1"1/4	MS4000	-	-	5,048	10101K60

* Pump in sleeve

ELECTRIC MOTOR

240V 1ph 50Hz

380-415V 3ph 50Hz

Pumps with 4" motors (MS 402 & MS 4000) include motor tail with 2 plugs

All 3ph motors suitable for frequency converter operation. 1ph motors are NOT suitable for frequency converter operation.

Ensure to size the drive according to the nominal current and use a sine wave filter.

CONTROL BOX

A Control Box must be used with Grundfos single phase submersible motors, otherwise the guarantee will be invalid, please see page 20 for details.

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP 5A AND 7 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

P2				240V 1ph 50Hz		380-415V 3ph 50Hz	
Model	kW	Discharge	Motor	£	Product Code	£	Product Code
SP5A-4	0.37	Rp 1" 1/2	MS 402	1,081	05002E04	1,064	05001K04
SP5A-6	0.55	Rp 1" 1/2	MS 402	1,150	05002E06	1,108	05001K06
SP5A-8	0.75	Rp 1" 1/2	MS 402	1,256	05002E08	1,210	05001K08
SP5A-12	1.1	Rp 1" 1/2	MS 402	1,409	05002E12	1,366	05001K12
SP5A-17	1.5	Rp 1" 1/2	MS 402	1,640	05002E17	1,549	05001K17
SP5A-21	2.2	Rp 1" 1/2	MS 4000 / 402	2,490	05002E21	1,776	05001K21
SP5A-25	2.2	Rp 1" 1/2	MS 4000 / 402	2,562	05002E25	1,851	05001K25
SP5A-33	3	Rp 1" 1/2	MS4000	-	-	2,451	05001K33
SP5A-38	4	Rp 1" 1/2	MS4000	-	-	4,490	05101K38
SP5A-44	4	Rp 1" 1/2	MS4000	-	-	4,852	05101K44
SP5A-52	5.5	Rp 1" 1/2	MS4000	-	-	6,063	05171K52
SP5A-60	5.5	Rp 1" 1/2	MS4000	-	-	6,546	05171K60
SP5A-75 *	7.5	R 1" 1/2	MS 6000	-	-	12,570	5301975
SP5A-85 *	7.5	R 1" 1/2	MS 6000	-	-	13,641	5301985
SP7-3	0.55	Rp 1" 1/2	MS 402	1,051	98699154	1,051	98699178
SP7-5	0.75	Rp 1" 1/2	MS 402	1,252	98699155	1,252	98699169
SP7-8	1.1	Rp 1" 1/2	MS 402	1,521	98699156	1,521	98699179
SP7-12	1.5	Rp 1" 1/2	MS 402	1,891	98699157	1,891	98699180
SP7-17	2.2	Rp 1" 1/2	MS 4000 / 402	2,803	98699158	2,397	98699181
SP7-23	3	Rp 1" 1/2	MS 4000	-	-	3,275	98699182
SP7-27	4	Rp 1" 1/2	MS 4000	-	-	3,727	98699183
SP7-31	4	Rp 1" 1/2	MS 4000	-	-	4,006	98699184
SP7-37	5.5	Rp 1" 1/2	MS 4000	-	-	4,602	98699196
SP7-42	5.5	Rp 1" 1/2	MS 4000	-	-	4,951	98699197
SP7-51	7.5	Rp 1" 1/2	MS 4000	-	-	6,426	98699198
SP7-59	7.5	Rp 1" 1/2	MS 4000	-	-	10,559	98699199
SP7-71*	9.2	R 2"	MS 6000	-	-	12,965	98699211
SP7-86*	11	R 2"	MS 6000	-	-	15,192	98699212
SP7-100*	13	R 2"	MS 6000	-	-	17,286	98699213

* Pump in sleeve

ELECTRIC MOTOR

240V 1ph 50Hz

380-415V 3ph 50Hz

Pumps with 4" motors (MS 402 & MS 4000) include motor tail with 2 plugs

Pumps with 6" motors and above include motor tail with 1 plug

All 3ph motors suitable for frequency converter operation. 1ph motors are NOT suitable for frequency converter operation.

Ensure to size the drive according to the nominal current and use a sine wave filter.

Pumps from 5.5kW and above available in Star/Delta.

CONTROL BOX

A Control Box must be used with Grundfos single phase submersible motors, otherwise the guarantee will be invalid, please see page 20 for details.

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP 9, 11 AND 14 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

P2				240V 1ph 50Hz		380-415V 3ph 50Hz	
Model	kW	Discharge	Motor	£	Product Code	£	Product Code
SP9-4	0.75	Rp 2"	MS 402	-	On request	1,319	98779736
SP9-5	1.1	Rp 2"	MS 402	1,484	98699025	1,484	98699053
SP9-8	1.5	Rp 2"	MS 402	1,887	98699026	1,887	98699054
SP9-10	2.2	Rp 2"	MS 4000 / 402	-	On request	2,254	98779739
SP9-11	2.2	Rp 2"	MS 4000 / 402	2,763	98699027	2,356	98699055
SP9-13	3	Rp 2"	MS 4000	-	-	3,020	98699056
SP9-16	3	Rp 2"	MS 4000	-	-	3,332	98699057
SP9-18	4	Rp 2"	MS 4000	-	-	3,714	98699058
SP9-21	4	Rp 2"	MS 4000	-	-	4,030	98699059
SP9-23	5.5	Rp 2"	MS 4000	-	-	4,745	98699060
SP9-25	5.5	Rp 2"	MS 4000	-	-	4,953	98699061
SP9-29	5.5	Rp 2"	MS 4000	-	-	5,368	98699062
SP9-32	7.5	Rp 2"	MS 4000	-	-	6,530	98699063
SP9-36	7.5	Rp 2"	MS 4000	-	-	6,963	98699064
SP9-40	7.5	Rp 2"	MS 4000	-	-	7,382	98699065
SP9-44	9.2	Rp 2"	MS 6000	-	-	8,528	98699072
SP9-48	9.2	Rp 2"	MS 6000	-	-	8,947	98699073
SP9-52	11	Rp 2"	MS 6000	-	-	9,460	98699074
SP9-56*	11	R 2"	MS 6000	-	-	13,223	98699075
SP9-60*	13	R 2"	MS 6000	-	-	13,971	98699076
SP9-65*	13	R 2"	MS 6000	-	-	14,720	98699077
SP9-69*	13	R 2"	MS 6000	-	-	15,319	98699078
SP9-75*	15	R 2"	MS 6000	-	-	16,416	98699079
SP9-79*	15	R 2"	MS 6000	-	-	17,058	98699080
SP9-86*	18.5	R 2"	MS 6000	-	-	18,644	98901304
SP9-93*	18.5	R 2"	MS 6000	-	-	19,691	98901305
SP11-3	0.75	Rp 2"	MS 402	1,241	98699297	1,241	98699312
SP11-5	1.10	Rp 2"	MS 402	1,528	98699298	1,528	98699313
SP11-7	1.50	Rp 2"	MS 402	1,842	98699299	1,842	98699314
SP11-11	2.20	Rp 2"	MS 4000 / 402	2,857	98699300	2,451	98699315
SP11-15	3.00	Rp 2"	MS 4000	-	-	3,363	98699316
SP11-20	4.00	Rp 2"	MS 4000	-	-	4,099	98699317
SP11-24	5.50	Rp 2"	MS 4000	-	-	4,729	98699318
SP11-27	5.50	Rp 2"	MS 4000	-	-	5,066	98900419
SP11-33	7.50	Rp 2"	MS 4000	-	-	6,587	98699320
SP11-37	7.50	Rp 2"	MS 4000	-	-	7,038	98901311
SP14-4	1.10	Rp 2"	MS 402	1,446	98699339	1,446	98699353
SP14-6	1.50	Rp 2"	MS 402	1,776	98699340	1,776	98699354
SP14-8	2.20	Rp 2"	MS 4000 / 402	2,575	98699341	2,168	98699355
SP14-11	3.00	Rp 2"	MS 4000	-	-	2,987	98699356
SP14-13	3.00	Rp 2"	MS 4000	-	-	3,236	98699357
SP14-15	4.00	Rp 2"	MS 4000	-	-	3,648	98699358
SP14-17	4.00	Rp 2"	MS 4000	-	-	3,884	98699359
SP14-20	5.50	Rp 2"	MS 4000	-	-	4,406	98699360
SP14-23	5.50	Rp 2"	MS 4000	-	-	4,763	98699361
SP14-27	7.50	Rp 2"	MS 4000	-	-	6,112	98711397
SP14-31	7.50	Rp 2"	MS 4000	-	-	6,590	98901319

* Pump in sleeve

ELECTRIC MOTOR

240V 1ph 50Hz

380-415V 3ph 50Hz

Pumps with 4" motors (MS 402 & MS 4000) include motor tail with 2 plugs

Pumps with 6" motors and above include motor tail with 1 plug

1ph motors are NOT suitable for frequency converter operation.

All 3ph motors suitable for frequency converter operation.

Ensure to size the drive according to the nominal current and use a sine wave filter.

Pumps from 5.5kW and above available in Star/Delta.

CONTROL BOX

A Control Box must be used with Grundfos single phase submersible motors, otherwise the guarantee will be invalid, please see page 20 for details.

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.

CATEGORY 3 - SP 14 AND 17 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2			240V 1ph 50Hz		380-415V 3ph 50Hz	
	kW	Discharge	Motor	£	Product Code	£	Product Code
SP17-1	0.55	Rp 2"1/2	MS 402	1,452	12A02401	1,452	12A01901
SP17-2	1.1	Rp 2"1/2	MS 402	1,746	12A02402	1,746	12A01902
SP17-3	2.2	Rp 2"1/2	MS 4000 / 402	2,532	12A02403	2,158	12A01903
SP17-4	2.2	Rp 2"1/2	MS 4000 / 402	2,708	12A02404	2,334	12A01904
SP17-5	3.0	Rp 2"1/2	MS 4000	-	-	3,038	12A01905
SP17-6	4.0	Rp 2"1/2	MS 4000	-	-	3,449	12A01906
SP17-7	4.0	Rp 2"1/2	MS 4000	-	-	3,622	12A01907
SP17-8	5.5	Rp 2"1/2	MS 4000	-	-	4,022	12A01908
SP17-9	5.5	Rp 2"1/2	MS 4000	-	-	4,197	12A01909
SP17-10	5.5	Rp 2"1/2	MS 4000	-	-	4,374	12A01910
SP17-11	7.5	Rp 2"1/2	MS 6000	-	-	5,691	12A01911
SP17-12	7.5	Rp 2"1/2	MS 6000	-	-	5,855	12A01912
SP17-13	7.5	Rp 2"1/2	MS 6000	-	-	6,017	12A01913
SP17-14	9.2	Rp 2"1/2	MS 6000	-	-	6,548	12A01914
SP17-15	9.2	Rp 2"1/2	MS 6000	-	-	6,749	12A01915
SP17-16	9.2	Rp 2"1/2	MS 6000	-	-	6,906	12A01916
SP17-17	9.2	Rp 2"1/2	MS 6000	-	-	7,057	12A01917
SP17-18	11.0	Rp 2"1/2	MS 6000	-	-	7,301	12A01918
SP17-19	11.0	Rp 2"1/2	MS 6000	-	-	7,454	12A01919
SP17-20	11.0	Rp 2"1/2	MS 6000	-	-	7,644	12A01920
SP17-21	13.0	Rp 2"1/2	MS 6000	-	-	8,093	12A01921
SP17-22	13.0	Rp 2"1/2	MS 6000	-	-	8,348	12A01922
SP17-23	13.0	Rp 2"1/2	MS 6000	-	-	8,500	12A01923
SP17-24	13.0	Rp 2"1/2	MS 6000	-	-	8,654	12A01924
SP17-25	15.0	Rp 2"1/2	MS 6000	-	-	8,985	12A01925
SP17-26	15.0	Rp 2"1/2	MS 6000	-	-	9,215	12A01926
SP17-27	15.0	Rp 2"1/2	MS 6000	-	-	9,427	12A01927
SP17-28	18.5	Rp 2"1/2	MS 6000	-	-	10,125	12A01928
SP17-29	18.5	Rp 2"1/2	MS 6000	-	-	10,268	12A01929
SP17-30	18.5	Rp 2"1/2	MS 6000	-	-	10,414	12A01930
SP17-31	18.5	Rp 2"1/2	MS 6000	-	-	10,648	12A01931
SP17-32	18.5	Rp 2"1/2	MS 6000	-	-	10,841	12A01932
SP17-33	18.5	Rp 2"1/2	MS 6000	-	-	10,986	12A01933
SP17-34	22.0	Rp 2"1/2	MS 6000	-	-	11,352	12A01934
SP17-35	22.0	Rp 2"1/2	MS 6000	-	-	11,498	12A01935
SP17-36	22.0	Rp 2"1/2	MS 6000	-	-	11,641	12A01936
SP17-37	22.0	Rp 2"1/2	MS 6000	-	-	11,783	12A01937
SP17-38	22.0	Rp 2"1/2	MS 6000	-	-	11,926	12A01938
SP17-39	22.0	Rp 2"1/2	MS 6000	-	-	12,071	12A01939
SP17-40	22.0	Rp 2"1/2	MS 6000	-	-	12,216	12A01940
SP17-43 *	26.0	R 3"	MS 6000	-	-	14,801	12A41943
SP17-45 *	26.0	R 3"	MS 6000	-	-	15,187	12A41945
SP17-48 *	26.0	R 3"	MS 6000	-	-	16,031	12A41948
SP17-51 *	30.0	R 3"	MS 6000	-	-	17,721	12A41951
SP17-53 *	30.0	R 3"	MS 6000	-	-	18,245	12A41953
SP 17-55 *	37.0	R 3"	MMS 6	-	-	21,108	12A44355
SP 17-58 *	37.0	R 3"	MMS 6	-	-	21,901	12A44358
SP 17-60 *	37.0	R 3"	MMS 6	-	-	22,428	12A44360

* Pump in sleeve

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.

ELECTRIC MOTOR

240V 1ph 50Hz

380-415V 3ph 50Hz

Pumps with 4" motors (MS 402 & MS 4000) include motor tail with 2 plugs

Pumps with 6" motors and above include motor tail with 1 plug

All 3ph motors suitable for frequency converter operation. 1ph motors are NOT suitable for frequency converter operation.

Ensure to size the drive according to the nominal current and use a sine wave filter.

Pumps from 5.5kW and above available in Star/Delta.

CONTROL BOX

A Control Box must be used with Grundfos single phase submersible motors,

otherwise the guarantee will be invalid, please see page 20 for details.

CATEGORY 3 - SP 30 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2				380-415V 3ph 50Hz	
	kW	Discharge	Motor	Max Ø [mm]	£	Product Code
SP 30-1	1.1	Rp 3"	MS 402	134	1,594	13A01901
SP 30-2	2.2	Rp 3"	MS 402	134	2,035	13A01902
SP 30-3	3	Rp 3"	MS 4000	134	2,662	13A01903
SP 30-4	4	Rp 3"	MS 4000	134	3,037	13A01904
SP 30-5	5.5	Rp 3"	MS 4000	134	3,532	13A01905
SP 30-6	5.5	Rp 3"	MS 4000	134	3,850	13A01906
SP 30-7	7.5	Rp 3"	MS 6000	142	5,074	13A01907
SP 30-8	7.5	Rp 3"	MS 6000	142	5,280	13A01908
SP 30-9	9.2	Rp 3"	MS 6000	142	5,754	13A01909
SP 30-10	9.2	Rp 3"	MS 6000	142	5,952	13A01910
SP 30-11	9.2	Rp 3"	MS 6000	142	6,150	13A01911
SP 30-12	11	Rp 3"	MS 6000	142	6,432	13A01912
SP 30-13	11	Rp 3"	MS 6000	142	6,756	13A01913
SP 30-14	13	Rp 3"	MS 6000	142	7,280	13A01914
SP 30-15	13	Rp 3"	MS 6000	142	7,478	13A01915
SP 30-16	15	Rp 3"	MS 6000	142	7,856	13A01916
SP 30-17	15	Rp 3"	MS 6000	142	8,052	13A01917
SP 30-18	18.5	Rp 3"	MS 6000	142	8,785	13A01918
SP 30-19	18.5	Rp 3"	MS 6000	142	8,984	13A01919
SP 30-20	18.5	Rp 3"	MS 6000	142	9,288	13A01920
SP 30-21	18.5	Rp 3"	MS 6000	142	9,684	13A01921
SP 30-22	22	Rp 3"	MS 6000	142	10,105	13A01922
SP 30-23	22	Rp 3"	MS 6000	142	10,303	13A01923
SP 30-24	22	Rp 3"	MS 6000	142	10,496	13A01924
SP 30-25	22	Rp 3"	MS 6000	142	10,686	13A01925
SP 30-26	22	Rp 3"	MS 6000	142	10,879	13A01926
SP 30-27	26	Rp 3"	MS 6000	142	11,588	13A01927
SP 30-28	26	Rp 3"	MS 6000	142	11,776	13A01928
SP 30-29	26	Rp 3"	MS 6000	142	11,967	13A01929
SP 30-30	26	Rp 3"	MS 6000	142	12,152	13A01930
SP 30-31	26	Rp 3"	MS 6000	142	12,338	13A01931
SP 30-32	30	Rp 3"	MS 6000	142	12,900	13A01932
SP 30-33	30	Rp 3"	MS 6000	142	13,085	13A01933
SP 30-34	30	Rp 3"	MS 6000	142	13,271	13A01934
SP 30-35	30	Rp 3"	MS 6000	142	13,454	13A01935
SP 30-39 *	37	R 3"	MMS 6	175	18,551	13A44339
SP 30-43 *	37	R 3"	MMS 6	175	19,952	13A44343
SP 30-46 *	45	R 3"	MMS 8000	192	23,813	13A54346
SP 30-49 *	45	R 3"	MMS 8000	192	24,891	13A54349
SP 30-52 *	55	R 3"	MMS 8000	192	26,993	13A54352
SP 30-54 *	55	R 3"	MMS 8000	192	27,847	13A54354

* Pump in sleeve

ELECTRIC MOTOR

380-415V 3ph 50Hz

Pumps with 4" motors (MS 402 & MS 4000) include motor tail with 2 plugs

Pumps with 6" motors and above include motor tail with 1 plug

All 3ph motors suitable for frequency converter operation.

Ensure to size the drive according to the nominal current and use a sine wave filter.

Pumps from 5.5kW and above available in Star/Delta.

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP 46 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	Discharge	Motor	Max Ø [mm]	380-415V 3ph 50Hz	
					£	Product Code
SP 46-1-B	1.1	Rp 4"	MS 402	146	2,230	15A019C1
SP 46-1	2.2	Rp 4"	MS 402	146	2,524	15A01901
SP 46-2-BB	2.2	Rp 4"	MS 402	146	2,568	15A019D2
SP 46-2	3	Rp 4"	MS 4000	146	3,120	15A01902
SP 46-3-C	4	Rp 4"	MS 4000	146	3,663	15A019F3
SP 46-3	5.5	Rp 4"	MS 4000	146	3,915	15A01903
SP 46-4-C	5.5	Rp 4"	MS 4000	146	4,099	15A019F4
SP 46-4	7.5	Rp 4"	MS 6000	148	5,402	15A01904
SP 46-5	7.5	Rp 4"	MS 6000	148	5,787	15A01905
SP 46-6	9.2	Rp 4"	MS 6000	148	6,463	15A01906
SP 46-7	11	Rp 4"	MS 6000	148	6,930	15A01907
SP 46-8-C	11	Rp 4"	MS 6000	148	7,175	15A019F8
SP 46-8	13	Rp 4"	MS 6000	148	7,446	15A01908
SP 46-9-C	13	Rp 4"	MS 6000	148	7,787	15A019F9
SP 46-9	15	Rp 4"	MS 6000	148	8,148	15A01909
SP 46-10	15	Rp 4"	MS 6000	148	8,528	15A01910
SP 46-11	18.5	Rp 4"	MS 6000	148	9,509	15A01911
SP 46-12	18.5	Rp 4"	MS 6000	148	9,880	15A01912
SP 46-13	22	Rp 4"	MS 6000	148	10,637	15A01913
SP 46-14	22	Rp 4"	MS 6000	148	11,019	15A01914
SP 46-15	22	Rp 4"	MS 6000	148	11,401	15A01915
SP 46-16	26	Rp 4"	MS 6000	148	12,359	15A01916
SP 46-17	26	Rp 4"	MS 6000	148	12,735	15A01917
SP 46-18	30	Rp 4"	MS 6000	148	13,535	15A01918
SP 46-19	30	Rp 4"	MS 6000	148	13,742	15A01919
SP 46-20	30	Rp 4"	MS 6000	148	14,016	15A01920
SP 46-21	37	Rp 4"	MMS 6	150	16,913	15A04321
SP 46-22	37	Rp 4"	MMS 6	150	17,276	15A04322
SP 46-23	37	Rp 4"	MMS 6	150	17,634	15A04323
SP 46-24	37	Rp 4"	MMS 6	150	17,995	15A04324
SP 46-26 *	45	R 4"	MMS 8000	192	23,579	15A44326
SP 46-28 *	45	R 4"	MMS 8000	192	23,979	15A44328
SP 46-30 *	45	R 4"	MMS 8000	192	24,781	15A44330
SP 46-33 *	55	R 4"	MMS 8000	192	27,275	15A44333
SP 46-35 *	55	R 4"	MMS 8000	192	29,369	15A44335
SP 46-37 *	63	R 4"	MMS 8000	192	30,836	15A44337

* Pump in sleeve

ELECTRIC MOTOR

240V 1ph 50Hz

380-415V 3ph 50Hz

Pumps with 4" motors (MS 402 & MS 4000) include motor tail with 2 plugs

Pumps with 6" motors and above include motor tail with 1 plug

All 3ph motors suitable for frequency converter operation.

Ensure to size the drive according to the nominal current and use a sine wave filter.

Pumps from 5.5kW and above available in Star/Delta.

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP 60 AND 77 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

					380-415V 3ph 50Hz	
Model	P2 kW	Discharge	Motor	Max Ø [mm]	£	Product Code
SP 60-1-A	1.5	Rp 4"	MS 402	146	2,930	14A019A1
SP 60-1	2.2	Rp 4"	MS 402	146	3,173	14A01901
SP 60-2-B	3	Rp 4"	MS 4000	146	3,800	14A019C2
SP 60-2	4	Rp 4"	MS 4000	146	4,057	14A01902
SP 60-3	5.5	Rp 4"	MS 6000	148	5,815	14AA1903
SP 60-4	7.5	Rp 4"	MS 6000	148	6,035	14AA1904
SP 60-5	9.2	Rp 4"	MS 6000	148	6,651	14A01905
SP 60-6	11	Rp 4"	MS 6000	148	7,062	14A01906
SP 60-7	13	Rp 4"	MS 6000	148	7,568	14A01907
SP 60-8-B	13	Rp 4"	MS 6000	148	7,782	14A019C8
SP 60-8	15	Rp 4"	MS 6000	148	8,087	14A01908
SP 60-9-B	15	Rp 4"	MS 6000	148	8,296	14A019C9
SP 60-9	18.5	Rp 4"	MS 6000	148	9,003	14A01909
SP 60-10	18.5	Rp 4"	MS 6000	148	9,317	14A01910
SP 60-11	22	Rp 4"	MS 6000	148	10,001	14A01911
SP 60-12	22	Rp 4"	MS 6000	148	10,444	14A01912
SP 60-13	26	Rp 4"	MS 6000	148	11,346	14A01913
SP 60-14	26	Rp 4"	MS 6000	148	11,671	14A01914
SP 60-15	26	Rp 4"	MS 6000	148	11,992	14A01915
SP 60-16	30	Rp 4"	MS 6000	148	12,735	14A01916
SP 60-17	30	Rp 4"	MS 6000	148	12,901	14A01917
SP 60-18	37	Rp 4"	MMS 6	150	15,749	14A04318
SP 60-19	37	Rp 4"	MMS 6	150	16,065	14A04319
SP 60-20	37	Rp 4"	MMS 6	150	16,374	14A04320
SP 60-21	37	Rp 4"	MMS 6	150	16,682	14AA4321
SP 60-22	45	Rp 4"	MMS 8000	192	20,610	14A04322
SP 60-24 *	45	R 4"	MMS 8000	192	24,924	14A04324
SP 60-26 *	55	R 4"	MMS 8000	192	27,032	14A04326
SP 60-28 *	55	R 4"	MMS 8000	192	27,857	14A04328
SP 60-30 *	55	R 4"	MMS 8000	192	28,678	14A04330
SP 77-1	5.5	Rp 5"	MS 6000	178	6,004	16A01901
SP 77-2-B	5.5	Rp 5"	MS 6000	178	6,373	16A019C2
SP 77-2	7.5	Rp 5"	MS 6000	178	6,595	16A01902
SP 77-3-B	9.2	Rp 5"	MS 6000	178	7,331	16A019C3
SP 77-3	11	Rp 5"	MS 6000	178	7,604	16A01903
SP 77-4-B	13	Rp 5"	MS 6000	178	8,110	16A019C4
SP 77-4	15	Rp 5"	MS 6000	178	8,480	16A01904
SP 77-5	18.5	Rp 5"	MS 6000	178	9,318	16A01905
SP 77-6	22	Rp 5"	MS 6000	178	10,078	16A01906
SP 77-7	26	Rp 5"	MS 6000	178	11,134	16A01907
SP 77-8-B	26	Rp 5"	MS 6000	178	11,481	16A019C8
SP 77-8	30	Rp 5"	MS 6000	178	12,045	16A01908
SP 77-9	30	Rp 5"	MS 6000	178	12,565	16A01909
SP 77-10	37	Rp 5"	MMS 6	178	15,187	16A04310
SP 77-11	37	Rp 5"	MMS 6	178	15,690	16AA4311
SP 77-12	45	Rp 5"	MMS 8000	200	19,530	16A04312
SP 77-13	55	Rp 5"	MMS 8000	200	21,214	16A04313
SP 77-14	55	Rp 5"	MMS 8000	200	21,718	16A04314
SP 77-15	55	Rp 5"	MMS 8000	200	22,213	16A04315
SP 77-16	63	Rp 5"	MMS 8000	200	23,305	16A04316
SP 77-17	63	Rp 5"	MMS 8000	200	23,801	16A04317
SP 77-18	63	Rp 5"	MMS 8000	200	24,298	16A04318
SP 77-19	75	Rp 5"	MMS 8000	200	25,998	16A04319
SP 77-20	75	Rp 5"	MMS 8000	200	26,824	16A04320
SP 77-21	75	Rp 5"	MMS 8000	200	27,650	16A04321
SP 77-22	90	Rp 5"	MMS 8000	200	30,547	16A04322

Motor specification, reference to accessories and operational details are on next page.

CATEGORY 3 - SP 95 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2				380-415V 3ph 50Hz	
	kW	Discharge	Motor	Max Ø [mm]	£	Product Code
SP 95-1	5.5	Rp 5"	MS 6000	178	6,263	19001901
SP 95-2-BB	5.5	Rp 5"	MS 6000	178	6,476	190019D2
SP 95-2-A	7.5	Rp 5"	MS 6000	178	6,721	190019A2
SP 95-2	9.2	Rp 5"	MS 6000	178	7,301	19001902
SP 95-3-BB	9.2	Rp 5"	MS 6000	178	7,509	190019D3
SP 95-3-B	11	Rp 5"	MS 6000	178	7,806	190019C3
SP 95-3	13	Rp 5"	MS 6000	178	8,152	19001903
SP 95-4-B	15	Rp 5"	MS 6000	178	8,580	190019C4
SP 95-4	18.5	Rp 5"	MS 6000	178	9,256	19001904
SP 95-5-AB	18.5	Rp 5"	MS 6000	178	9,439	190019E5
SP 95-5	22	Rp 5"	MS 6000	178	10,092	19001905
SP 95-6	26	Rp 5"	MS 6000	178	11,221	19001906
SP 95-7	30	Rp 5"	MS 6000	178	11,989	19001907
SP 95-8	37	Rp 5"	MMS 6	178	14,754	19004308
SP 95-9	37	Rp 5"	MMS 6	178	15,316	19064309
SP 95-10	45	Rp 5"	MMS 8000	196	19,217	19004310
SP 95-11	55	Rp 5"	MMS 8000	196	20,961	19004311
SP 95-12	55	Rp 5"	MMS 8000	196	21,520	19004312
SP 95-13	55	Rp 5"	MMS 8000	196	22,082	19004313
SP 95-14	63	Rp 5"	MMS 8000	196	23,230	19004314
SP 95-15	75	Rp 5"	MMS 8000	196	24,991	19004315
SP 95-16	75	Rp 5"	MMS 8000	196	25,547	19004316
SP 95-17	75	Rp 5"	MMS 8000	196	26,104	19004317
SP 95-18	92	Rp 5"	MMS 8000	196	28,731	19004318
SP 95-19	92	Rp 5"	MMS 8000	196	29,281	19004319
SP 95-20	92	Rp 5"	MMS 8000	196	29,835	19004320

ELECTRIC MOTOR

380-415V 3ph 50Hz

Pumps with 6" motors and above include motor tail with 1 plug

All 3ph motors suitable for frequency converter operation.

Ensure to size the drive according to the nominal current and use a sine wave filter.

Pumps from 5.5kW and above available in Star/Delta.

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP 125 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2				380-415V 3ph 50Hz	
	kW	Discharge	Motor	Max Ø [mm]	£	Product Code
SP 125-1-A	7.5	Rp 6"	MS 6000	211	7,200	17A019A1
SP 125-1	11	Rp 6"	MS 6000	211	8,021	17A01901
SP 125-2-AA	13	Rp 6"	MS 6000	211	8,522	17A019B2
SP 125-2-A	18.5	Rp 6"	MS 6000	211	9,632	17A019A2
SP 125-2	22	Rp 6"	MS 6000	211	9,947	17A01902
SP 125-3-AA	22	Rp 6"	MS 6000	211	10,289	17A019B3
SP 125-3-A	26	Rp 6"	MS 6000	211	11,174	17A019A3
SP 125-3	30	Rp 6"	MS 6000	211	11,765	17A01903
SP 125-4-AA	37	Rp 6"	MMS 6	211	14,237	17A243B4
SP 125-4-A	37	Rp 6"	MMS 6	211	14,567	17A243A4
SP 125-4	37	Rp 6"	MMS 6	211	14,882	17A24304
SP 125-5-AA	45	Rp 6"	MMS 8000	213	18,555	17A043B5
SP 125-5-A	45	Rp 6"	MMS 8000	213	18,877	17A043A5
SP 125-5	55	Rp 6"	MMS 8000	213	20,379	17A04305
SP 125-6-AA	55	Rp 6"	MMS 8000	213	20,690	17A043B6
SP 125-6-A	55	Rp 6"	MMS 8000	213	21,009	17A043A6
SP 125-6	63	Rp 6"	MMS 8000	218	21,914	17A04306
SP 125-7-AA	63	Rp 6"	MMS 8000	218	22,220	17A043B7
SP 125-7-A	63	Rp 6"	MMS 8000	218	22,534	17A043A7
SP 125-7	75	Rp 6"	MMS 8000	218	24,049	17A04307
SP 125-8-AA	75	Rp 6"	MMS 8000	218	24,349	17A043B8
SP 125-8-A	75	Rp 6"	MMS 8000	218	24,662	17A043A8
SP 125-8	75	Rp 6"	MMS 8000	218	24,959	17A04308
SP 125-9-AA	92	Rp 6"	MMS 8000	218	27,341	17A043B9
SP 125-9-A	92	Rp 6"	MMS 8000	218	27,650	17A043A9
SP 125-9	92	Rp 6"	MMS 8000	218	27,941	17A04309
SP 125-10-AA	92	Rp 6"	MMS 8000	218	28,237	17A043B0
SP 125-10-A	92	Rp 6"	MMS 8000	218	28,538	17A043A0
SP 125-10	92	Rp 6"	MMS 8000	218	28,827	17A04310
SP 125-11	110	Rp 6"	MMS 8000	218	31,893	17A04311
SP 125-12	132	Rp 6"	MMS 10000	237	44,637	17AK4312
SP 125-13	132	Rp 6"	MMS 10000	237	47,084	17AK4313
SP 125-14	147	Rp 6"	MMS 10000	237	49,563	17AK4314
SP 125-15	147	Rp 6"	MMS 10000	237	POA	17AK4315
SP 125-16	170	Rp 6"	MMS 10000	237	POA	17AK4316
SP 125-17	170	Rp 6"	MMS 10000	237	POA	17AK4317

ELECTRIC MOTOR

380-415V 3ph 50Hz

Pumps with 6" motors and above include motor tail with 1 plug

All 3ph motors suitable for frequency converter operation.

Ensure to size the drive according to the nominal current and use a sine wave filter.

Pumps from 5.5kW and above available in Star/Delta.

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP 160 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2				380-415V 3ph 50Hz	
	kW	Discharge	Motor	Max Ø [mm]	£	Product Code
SP 160-1-A	9.2	Rp 6"	MS 6000	211	7,517	200219A1
SP 160-1	13	Rp 6"	MS 6000	211	8,125	20021901
SP 160-2-AA	18.5	Rp 6"	MS 6000	211	9,240	200219B2
SP 160-2-A	22	Rp 6"	MS 6000	211	9,866	200219A2
SP 160-2	26	Rp 6"	MS 6000	211	10,550	20021902
SP 160-3-AA	30	Rp 6"	MS 6000	211	11,050	200219B3
SP 160-3-A	37	Rp 6"	MMS 6	211	13,755	200243A3
SP 160-3	37	Rp 6"	MMS 6	211	14,109	20024303
SP 160-4-AA	45	Rp 6"	MMS 8000	218	17,794	200243B4
SP 160-4-A	45	Rp 6"	MMS 8000	218	18,156	200243A4
SP 160-4	55	Rp 6"	MMS 8000	218	19,530	20024304
SP 160-5-AA	55	Rp 6"	MMS 8000	218	19,868	200243B5
SP 160-5-A	55	Rp 6"	MMS 8000	218	20,224	200243A5
SP 160-5	63	Rp 6"	MMS 8000	218	21,154	20024305
SP 160-6-AA	75	Rp 6"	MMS 8000	218	22,702	200243B6
SP 160-6-A	75	Rp 6"	MMS 8000	218	23,052	200243A6
SP 160-6	75	Rp 6"	MMS 8000	218	23,396	20024306
SP 160-7-AA	75	Rp 6"	MMS 8000	218	23,736	200243B7
SP 160-7-A	92	Rp 6"	MMS 8000	218	26,160	200243A7
SP 160-7	92	Rp 6"	MMS 8000	218	26,500	20024307
SP 160-8-AA	92	Rp 6"	MMS 8000	218	26,841	200243B8
SP 160-8-A	92	Rp 6"	MMS 8000	218	27,194	200243A8
SP 160-8	92	Rp 6"	MMS 8000	218	27,532	20024308
SP 160-9-AA	110	Rp 6"	MMS 8000	218	30,041	200243B9
SP 160-9-A	110	Rp 6"	MMS 8000	218	30,390	200243A9
SP 160-9	110	Rp 6"	MMS 8000	218	30,732	20024309
SP 160-10-AA	110	Rp 6"	MMS 8000	218	41,802	200243B0
SP 160-10-A	132	Rp 6"	MMS 10000	237	48,833	200643A0
SP 160-10	132	Rp 6"	MMS 10000	237	49,043	20064310
SP 160-11	132	Rp 6"	MMS 10000	237	49,664	20064311
SP 160-12	147	Rp 6"	MMS 10000	237	POA	20064312
SP 160-13	170	Rp 6"	MMS 10000	237	POA	20064313
SP 160-14	170	Rp 6"	MMS 10000	237	POA	20064314
SP 160-15	190	Rp 6"	MMS 12000	286	POA	20064315

ELECTRIC MOTOR

380-415V 3ph 50Hz

Pumps with 6" motors and above include motor tail with 1 plug

All 3ph motors suitable for frequency converter operation.

Ensure to size the drive according to the nominal current and use a sine wave filter.

Pumps from 5.5kW and above available in Star/Delta.

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP 215 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	Discharge	Motor	Max Ø [mm]	380-415V 3ph 50Hz	
					£	Product Code
SP 215-1-A	15	Rp 6"	MS 6000	241	8,613	18A019A1
SP 215-1	18.5	Rp 6"	MS 6000	241	9,444	18A01901
SP 215-2-AA	30	Rp 6"	MS 6000	241	11,120	18A219B2
SP 215-2-A	37	Rp 6"	MMS 6	241	13,887	18A243A2
SP 215-2	45	Rp 6"	MMS 8000	241	17,768	18A04302
SP 215-3-AA	55	Rp 6"	MMS 8000	241	19,459	18A043B3
SP 215-3-A	55	Rp 6"	MMS 8000	241	19,955	18A043A3
SP 215-3	63	Rp 6"	MMS 8000	241	21,038	18A04303
SP 215-4-AA	75	Rp 6"	MMS 8000	241	22,745	18A043B4
SP 215-4-A	75	Rp 6"	MMS 8000	241	22,970	18A043A4
SP 215-4	75	Rp 6"	MMS 8000	241	23,158	18A04304
SP 215-5-AA	92	Rp 6"	MMS 8000	241	25,716	18A043B5
SP 215-5-A	92	Rp 6"	MMS 8000	241	26,173	18A043A5
SP 215-5	92	Rp 6"	MMS 8000	241	26,622	18A04305
SP 215-6-AA	110	Rp 6"	MMS 8000	241	29,271	18A043B6
SP 215-6-A	110	Rp 6"	MMS 8000	241	29,731	18A043A6
SP 215-6	110	Rp 6"	MMS 8000	241	30,178	18A04306
SP 215-7-AA	130	Rp 6"	MMS 8000	241	37,555	18A043B7
SP 215-7-A	130	Rp 6"	MMS 10000	241	38,012	18AT43A7
SP 215-7	130	Rp 6"	MMS 10000	241	38,449	18AT4307
SP 215-8-AA	150	Rp 6"	MMS 10000	241	40,902	18AT43B8
SP 215-8-A	150	Rp 6"	MMS 10000	241	41,354	18AT43A8
SP 215-8	150	Rp 6"	MMS 10000	241	41,794	18AT4308
SP 215-9-AA	170	Rp 6"	MMS 10000	276	44,178	18AT03B9
SP 215-9-A	170	Rp 6"	MMS 10000	276	44,628	18AT03A9
SP 215-9	170	Rp 6"	MMS 10000	276	45,063	18AT0309
SP 215-10-AA	190	Rp 6"	MMS 12000	276	POA	18AV43B0
SP 215-10-A	190	Rp 6"	MMS 12000	276	POA	18AV43A0
SP 215-10	190	Rp 6"	MMS 12000	276	POA	18AV4310
SP 215-11	220	Rp 6"	MMS 12000	286	POA	18AV4311

ELECTRIC MOTOR

380-415V 3ph 50Hz

Pumps with 6" motors and above include motor tail with 1 plug

All 3ph motors suitable for frequency converter operation.

Ensure to size the drive according to the nominal current and use a sine wave filter.

Pumps from 5.5kW and above available in Star/Delta.

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP CONTROL BOXES and ACCESSORIES

SUBMERSIBLE MOTOR CONTROL BOXES

For Grundfos MS three-wire, single phase motors

IP55 epoxy coated 1.2mm steel box

Type	for motor kW	£	Product Code
SA-CSIR	0.37	202	98582272
SA-CSIR	0.55	231	98582277
SA-CSIR	0.75	268	98582295

Type	for motor kW	£	Product Code
SA-CSCR	1.1	358	98582296
SA-CSCR	1.5	447	98582381
SA-CSCR	2.2	513	98582401

A Control Box must be used with Grundfos Single phase submersible motors, otherwise the guarantee will be invalid

MOTOR PROTECTION UNITS



	£	Product Code
MP204	975	96079927
Current transformer assembly 200/5	589	96095281
Current transformer assembly 300/5	620	96095282
Current transformer assembly 500/5	698	96095283
Current transformer assembly 750/5	727	96095284
Current transformer assembly 1000/5	770	96095285

Current transformer assemblies contain 3 current transformers.

TEMPERATURE SENSOR FOR SUBMERSIBLE MOTORS

For Grundfos MS402 and MS4000 motors

	£	Product Code
PT1000 Sensor with 20m cable	331	96804042
PT1000 Sensor with 40m cable	485	96804044
PT1000 Sensor with 60m cable	640	96804064
PT1000 Sensor with 80m cable	800	96804065
PT1000 Sensor with 100m cable	955	96804067

Staybolt kits for PT1000 in MS402 & MS4000	EN1.4401/AISI 316	127	98090278
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For Grundfos MS6000 & MMS motors

	£	Product Code
PT100 Sensor with 20m cable	278	96913237
PT100 Sensor with 40m cable	481	96913253
PT100 Sensor with 60m cable	683	96913256
PT100 Sensor with 80m cable	886	96913260
PT100 Sensor with 100m cable	1,088	96913263

Staybolt kits for PT100 in MS6 & MS6000	EN1.4401/AISI 316	250	97550639
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Insertion probe for MMS10000 & MMS12000	EN1.4401/AISI 316	119	96913215
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MMS6 and MMS8000 motors do not require staybolt for PT100

For Franklin motors

PT100*	4 - 45 kW 6" Motor	On request
PT100*	30 - 75 kW 8" Motor	On request
PT100*	93 - 150 kW 8" Motor	On request

Note : The PT 100* is supplied loose and have 10m of cable.

For PT100 and PT1000

	£	Product Code
PR 5714	1,080	96913234

Relay with digital display for continuous monitoring of motor temperature and protection.
Compatible with PT100 and PT1000.
Adjustable temperature limits; preset to 60 DegC warning & 75 DegC alarm
24-230VAC 50/60Hz 24-250VDC
The PR 5714 relay is supplied loose which will require accomodating into 3rd party controls.



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CATEGORY 3 - SP CABLES and ACCESSORIES

STANDARD NON WRAS SUBMERSIBLE DROP CABLE

Model	£	Product Code
4 x 1.5 sq mm (price per metre)	18	00ID4063
4 x 2.5 sq mm (price per metre)	15	00ID4064
4 x 4 sq mm (price per metre)	19	00ID4065
4 x 6 sq mm (price per metre)	25	00ID4066

Model	£	Product Code
4 x 10 sq mm (price per metre)	39	00ID4067
4 x 16 sq mm (price per metre)	57	00ID4068
4 x 25 sq mm (price per metre)	82	00ID4069
1 x 35 sq mm (price per metre)	29	00ID4073
1 x 50 sq mm (price per metre)	38	00ID4074

WRAS APPROVED SUBMERSIBLE DROP CABLE

Model	£	Product Code
4 x 1.5 sq mm (price per metre)	49	98258159
4 x 2.5 sq mm (price per metre)	23	98258162
4 x 4 sq mm (price per metre)	38	98258164
4 x 6 sq mm (price per metre)	33	98258165

Model	£	Product Code
4 x 10 sq mm (price per metre)	111	98254486
4 x 16 sq mm (price per metre)	138	98258168
4 x 25 sq mm (price per metre)	211	98258169
4 x 50 sq mm (price per metre)	390	98294201
4 x 70 sq mm (price per metre)	559	98294203
1 x 25 sq mm (price per metre)	29	98258151
1 x 50 sq mm (price per metre)	42	98258154
1 x 70 sq mm (price per metre)	99	98258157

NOTE : There are no WRAS Approved cable joints or motor tails - only drop cable above.

CABLE JOINTS - RESIN, HEAT SHRINK AND EARTH LEADS

All cable joints are free of charge when purchased with a pump unit, for individual pricing please contact your Sales Office. (see back page for details)

Resin/plug cable joints	No Req'd	£	Product Code
4 core 1.5mm2 - 2.5mm2 (4" motor up to 4kW) with plug	1	POA	799901
4 core 4mm2 - 6mm2 (4" motor up to 4kW) with plug	1	POA	799902
4 core 10mm2 - 16mm2 (6" motor up to 30kW)	1	POA	116218
4 core 25mm2 cable (6" motor up to 30kW)	1	POA	116219

Heat shrink cable joints

4 core 1.5mm2 - 2.5mm2 (4" motor up to 30kW)	1	POA	116251
4 core 4mm2 - 10mm2 (4" motor up to 30kW)	1	POA	116252
4 core 6mm2 - 10mm2 (6" motor up to 4kW)	1	POA	116252
4 core 16mm2 - 25mm2 (6" motor up to 30kW)	1	POA	116255
4 core 6mm2 - 16mm2 (6"/8" motor above 30kW)	1	POA	116258
4 core 35mm2 - 120mm2 (6"/8" motor above 30kW)	4	POA	116256

Earth Leads - required for 37kW and above motors

37kW motor	10mm2	length requested on order	Fitted	91200817
45kW - 75kW motor	16mm2	length requested on order	Fitted	91200818
92kW - 110kW motor	25mm2	length requested on order	Fitted	91200819
132kW - 170kW motor	50mm2	length requested on order	Fitted	91200821
190kW - 250kW motor	70mm2	length requested on order	Fitted	91200822

SP DIN FLANGE ADAPTER SETS

Pump Thread	DN	PN	£	Product Code
Rp 2½"	50	16/40	177	120125
	65	16/40	238	120126
	80	16/40	350	120127
Rp 3"	65	16/40	312	130187
	80	16/40	294	130188
	100	16	367	130210
	100	40	386	130189
Rp 4"	100	16	367	140077
	100	40	386	140071
Rp 5"	100	16	523	160159
	100	40	551	160148
	125	16	473	160157
	125	40	499	160149
	150	16	646	160161
	150	40	681	160150
Rp 6"	125	16	629	170170
	125	40	662	170159
	150	16	611	98518437
	150	40	644	170160
	200	16	919	170161
	200	40	1,325	170162

Flange adapters in EN 1.4308 stainless steel

Flange adapters also available in EN 1.4517 stainless steel. Prices available upon request.

All adapters can be mounted at production stage. Prices and product codes available upon request.

CATEGORY 3 - DRAINAGE AND EFFLUENT WASTEWATER PUMPS

50Hz

DP AND EF AUTOADAPT PUMPS

Model	P2 kW	Free passage	Discharge
DP 10.50.09	0.9	10 mm	R 2"
DP 10.50.15	1.5	10 mm	R 2"
DP 10.65.26	2.6	10 mm	DN 65
EF 30.50.06	0.6	30 mm	R 2"
EF 30.50.09	0.9	30 mm	R 2"
EF 30.50.11	1.1	30 mm	R 2"
EF 30.50.15	1.5	30 mm	R 2"

1x230V 50Hz E.2.1.502	
£	Product Code
3663	96877476
-	-
-	-
2660	96877508
2768	96877515
2879	96875101
-	-

3x400V 50Hz E.2.50B	
£	Product Code
3663	96877478
3983	96877503
4612	96877506
2660	96877510
2768	96877516
2879	96878445
3022	96878448

DP AND EF EXPLOSION PROOF AUTOADAPT PUMPS

Model	P2 kW	Free passage	Discharge
DP 10.50.09	0.9	10 mm	R 2"
DP 10.50.15	1.5	10 mm	R 2"
DP 10.65.26	2.6	10 mm	DN 65
EF 30.50.06	0.6	30 mm	R 2"
EF 30.50.09	0.9	30 mm	R 2"
EF 30.50.11	1.1	30 mm	R 2"
EF 30.50.15	1.5	30 mm	R 2"

1x230V 50Hz E.Ex.2.1.502	
£	Product Code
3998	96877479
-	-
-	-
2953	96877512
3062	96877518
3171	96878446
-	-

3x400V 50Hz E.Ex.2.50B	
£	Product Code
3998	96877502
4318	96877504
4948	96877507
2953	96877514
3062	96877532
3171	96878447
3316	96878449

AutoAdapt pumps (including 1ph) do not require external starter or any controller if up to 4 pumps in the same pumping station.

ELECTRIC MOTOR

230V 1ph 50Hz
400-415V 3ph 50Hz
IP68 Enclosure
Class F insulation



DATA COMMUNICATION INTERFACE for waste water AUTOADAPT pumps



Model
CIU 902 Waste Water Auto Adapt
CIM 050 GENibus
CIM 150 Profibus DP
CIM 500 Ethernet ^{see note 6)}
CIM 260 Cellular EU ¹⁾
CIM 280 GRM/GIC EU ^{1) 5)}

The above items are subject to Category 1 discount terms

£	Product Code
686	97644690
170	96824631
352	96824793
691	98301408
697	99439302
697	99439724

ACCESSORIES FOR DP AND EF PUMPS

	Pump
Hookup Auto Coupling 2" with 90° elbow	DP10.50 / EF30.50
Autocoupling Rp 2" cpl.	DP10.50 / EF30.50
Auto Coupling DN65 cpl.	DP10.65
Auto coupling DN80 / DN65 cpl.	DP10.65

For additional accessories, see page 37



HOOK-UP AUTO COUPLING



AUTO COUPLING Rp2"



AUTO COUPLING DN65

CATEGORY 3 - DRAINAGE AND EFFLUENT WASTEWATER PUMPS

50Hz

DP AND EF STANDARD PUMPS - 1PH

Model	P2 kW	Free passage	Discharge	1x230V 50Hz		1x230V 50Hz	
				2.1.502		A.2.1.502	
				WITHOUT CU100		WITH CU100	
				£	Product Code	£	Product Code
DP 10.50.09	0.9	10 mm	R 2"	2053	96104200	2525	96104202
EF 30.50.06	0.6	30 mm	R 2"	1474	96106546	1936	96106548
EF 30.50.09	0.9	30 mm	R 2"	1581	96115111	2044	96115113
EF 30.50.11	1.1	30 mm	R 2"	1691	96106554	2155	96106556

DP AND EF STANDARD PUMPS - 3PH

Model	P2 kW	Free passage	Discharge	3x400V 50Hz	
				£	Product Code
DP 10.50.09.2.50B	0.9	10 mm	R 2"	2053	96104204
DP 10.50.15.2.50B	1.5	10 mm	R 2"	2459	96104208
DP 10.50.26.2.50B	2.6	10 mm	DN 65	2925	96106542
EF 30.50.06.2.50B	0.6	30 mm	R 2"	1474	96106550
EF 30.50.09.2.50B	0.9	30 mm	R 2"	1581	96115115
EF 30.50.11.2.50B	1.1	30 mm	R 2"	1691	96106558
EF 30.50.15.2.50B	1.5	30 mm	R 2"	1931	96104196

DP AND EF EXPLOSION PROOF PUMPS

Model	P2 kW	Free passage	Discharge	1x230V 50Hz		3x400V 50Hz	
				Ex.2.1.502		Ex.2.50B	
				£	Product Code	£	Product Code
				2391	96104201	2391	96104205
DP 10.50.09	0.9	10 mm	R 2"	-	-	2688	96104209
DP 10.50.15	1.5	10 mm	R 2"	-	-	3154	96106543
DP 10.50.26	2.6	10 mm	DN 65	-	-	-	-
EF 30.50.06	0.6	30 mm	R 2"	1776	96106547	1776	96106551
EF 30.50.09	0.9	30 mm	R 2"	1889	96115112	1889	96115116
EF 30.50.11	1.1	30 mm	R 2"	2005	96106555	2005	96106559
EF 30.50.15	1.5	30 mm	R 2"	-	-	2157	96104197

ELECTRIC MOTOR

230V 1ph 50Hz
400-415V 3ph 50Hz
IP68 Enclosure
Class F insulation

1ph pumps require external starting capacitor.

CU100 1ph starter includes the start capacitor.

CU100 1ph starter is not available in explosion proof version and must not be used for Ex applications



ACCESSORIES FOR DP AND EF PUMPS

	Pump	£	Product Code
Hookup Auto Coupling 2" with 90° elbow	DP10.50 / EF30.50	254	96004445
Auto Coupling DN65 cpl.	DP10.65	547	96090992
Auto coupling DN80 / DN65 cpl.	DP10.65	626	96102238
Autocoupling Rp2 cpl.	DP10.50 / EF30.50	349	97644486

For additional accessories, see page 37



HOOK-UP AUTO COUPLING



AUTO COUPLING Rp2"



AUTO COUPLING DN65

CATEGORY 3 - AP 35B and AP 50B WASTEWATER AND SEWAGE PUMPS 50Hz

UNILIFT AP 35B WASTE WATER and SEWAGE PUMPS 1 PH

Model	P2 kW	Free passage	1x230V 50Hz		1x230V 50Hz	
			AUTOMATIC WITH FLOAT		MANUAL WITHOUT FLOAT	
			.A1.V		.1.V	
			£	Product Code	£	Product Code
Unilift AP35B.50.06	0.6	35 mm	803	96468356	685	96004563
Unilift AP35B.50.08	0.8	35 mm	946	96468355	828	96004575

UNILIFT AP 35B WASTE WATER and SEWAGE PUMPS 3 PH

Model	P2 kW	Free passage	3x400V 50Hz	
			MANUAL WITHOUT FLOAT	
			£	Product Code
Unilift AP35B.50.06.3.V	0.6	35 mm	766	96468190
Unilift AP35B.50.08.3.V	0.8	35 mm	911	96468193

UNILIFT AP 50B WASTE WATER and SEWAGE PUMPS 1 PH

Model	P2 kW	Free passage	1x230V 50Hz		1x230V 50Hz	
			AUTOMATIC WITH FLOAT		MANUAL WITHOUT FLOAT	
			.A1.V		.1.V	
			£	Product Code	£	Product Code
Unilift AP50B.50.08	0.8	50 mm	1165	96004586	1068	96004587
Unilift AP50B.50.11	1.1	50 mm	1423	96004598	1320	96004599

UNILIFT AP 50B WASTE WATER and SEWAGE PUMPS 3 PH

Model	P2 kW	Free passage	3x400V 50Hz	
			MANUAL WITHOUT FLOAT	
			£	Product Code
Unilift AP50B.50.08.3.V	0.8	35 mm	1068	96468194
Unilift AP50B.50.11.3.V	1.1	35 mm	1260	96468195
Unilift AP50B.50.15.3.V	1.5	35 mm	1473	96468196

ELECTRIC MOTOR

230V 1ph 50Hz
400V 3ph 50Hz
IP68 Enclosure
Class F insulation

PUMP

304 Stainless steel construction
All models with R 2" discharge



ACCESSORIES FOR AP-B

Auto-Coupling	£	Product Code
Auto Coupling Rp 2" (for 3/4" guide rails)	176	96429519
Auto Coupling Rp 2" (for 1" guide rails)	349	97644486

Auto Coupling includes the guide-shoe and upper guide rail holder.

Sarlin TV range adapter	£	Product Code
AP 35B/50B adapter for Sarlin TV range	170	GBWGP0040

For additional accessories, see page 37



CATEGORY 3 - SEG & APG GRINDER WASTEWATER AND SEWAGE PUMPS

50Hz

SEG STANDARD PUMPS

Model	P2 kW	Discharge	1x230V 50Hz		3x400V 50Hz	
			2.1.502		2.50B	
			£	Product Code	£	Product Code
SEG.40.09	0.9	DN 40	2660	96075893	2660	96075897
SEG.40.12	1.2	DN 40	2660	96075901	2660	96075905
SEG.40.15	1.5	DN 40	2913	98280724	3003	96075909
SEG.40.26	2.6	DN 40	-	-	3728	96075913
SEG.40.31	3.1	DN 40	-	-	3861	96075915
SEG.40.40	4	DN 40	-	-	4505	96075917
SEG.50.26	2.6	DN 50	-	-	3915	99274384
SEG.50.31	3.1	DN 50	-	-	4055	99274386
SEG.50.40	4	DN 50	-	-	4729	99274388

SEG EXPLOSION PROOF PUMPS

Model	P2 kW	Discharge	1x230V 50Hz		3x400V 50Hz	
			2.1.502		2.50B	
			£	Product Code	£	Product Code
SEG.40.09.Ex	0.9	DN 40	2941	96075894	2941	96075898
SEG.40.12.Ex	1.2	DN 40	2941	96075902	2941	96075906
SEG.40.15.Ex	1.5	DN 40	3073	98280725	3203	96075910
SEG.40.26.Ex	2.6	DN 40	-	-	3900	96075914
SEG.40.31.Ex	3.1	DN 40	-	-	4032	96075916
SEG.40.40.Ex	4	DN 40	-	-	4705	96075918
SEG.50.26.Ex	2.6	DN 50	-	-	4096	99274385
SEG.50.31.Ex	3.1	DN 50	-	-	4235	99274387
SEG.50.40.Ex	4	DN 50	-	-	4941	99274389

SEG AUTOADAPT PUMPS

Model	P2 kW	Discharge	1x230V 50Hz		3x400V 50Hz	
			2.1.502		2.50B	
			£	Product Code	£	Product Code
SEG.40.09.E	0.9	DN 40	3923	96878505	3923	96878506
SEG.40.12.E	1.2	DN 40	3923	96878509	3923	96878510
SEG.40.15.E	1.5	DN 40	4247	98280726	4247	96878514
SEG.40.26.E	2.6	DN 40	-	-	5066	96878516
SEG.40.31.E	3.1	DN 40	-	-	5192	96878518
SEG.40.40.E	4	DN 40	-	-	5798	96878520
SEG.50.26.E	2.6	DN 50	-	-	5317	99274434
SEG.50.31.E	3.1	DN 50	-	-	5450	99274436
SEG.50.40.E	4	DN 50	-	-	6085	99274438

SEG EXPLOSION PROOF AUTOADAPT PUMPS

Model	P2 kW	Discharge	1x230V 50Hz		3x400V 50Hz	
			2.1.502		2.50B	
			£	Product Code	£	Product Code
SEG.40.09.E.Ex	0.9	DN 40	4283	96878507	4283	96878508
SEG.40.12.E.Ex	1.2	DN 40	4283	96878512	4283	96878513
SEG.40.15.E.Ex	1.5	DN 40	-	-	4496	96878515
SEG.40.26.E.Ex	2.6	DN 40	-	-	5322	96878517
SEG.40.31.E.Ex	3.1	DN 40	-	-	5448	96878519
SEG.40.40.E.Ex	4	DN 40	-	-	6081	96878521
SEG.50.26.E.Ex	2.6	DN 50	-	-	5588	99274435
SEG.50.31.E.Ex	3.1	DN 50	-	-	5721	99274437
SEG.50.40.E.Ex	4	DN 50	-	-	6384	99274439

ELECTRIC MOTOR

230V 1ph 50Hz
400-415V 3ph 50Hz
IP68 Enclosure
Class F insulation

1ph standard pumps require external starting capacitor.

CU100 1ph starter includes the start capacitor.

CU100 1ph starter is not available in explosion proof version and must not be used for Ex applications

AutoAdapt pumps (including 1ph) do not require external starter or any controller
if up to 4 pumps in the same pumping station.



CATEGORY 3 - SEG & APG GRINDER WASTEWATER AND SEWAGE PUMPS

50Hz

ACCESSORIES FOR SEG PUMPS

	Pump discharge	AC discharge	Guide rails	£	Product Code
SEG Hook-up Auto Coupling	Rp 2"	Rp 2"		250	96004442
SEG Hook-up Auto Coupling	DN40	Rp 1" 1/2		307	96076089
SEG 40 Auto Coupling	DN40	Rp 1" 1/2	3/4" - 1"	279	96076063
SEG.50 Auto Coupling	DN50	Rp 2"	3/4" - 1"	349	97695874
Feet extension for free standing pumps (set of 3)				146	96076196
APG to an SEG Adaptor				166	96578891

For additional accessories, see page 37



FEET EXTENSION



HOOK-UP AUTO COUPLING



AUTO COUPLING

CU100 SINGLE PHASE STARTER FOR DP, EF AND SEG PUMPS

	For pump model		£	Product Code
CU 100.230.1.9.30/150.A	SEG.40.09.2.1.502	With Float	879	96076197
CU 100.230.1.9.30/150	SEG.40.09.2.1.502	Without Float	667	96076209
CU 100.230.1.9.30/150.A	SEG.40.12.2.1.502	With Float	879	96076197
CU 100.230.1.9.30/150	SEG.40.12.2.1.502	Without Float	667	96076209

The CU100 motor starter is required with DP, EF and SEG single phase pumps.

CU100 1ph starter is not available in explosion proof version and must not be used for Ex applications

A wide range of starters, controllers and other accessories are available.
Please contact the Sales Office for details.



APG GRINDER WASTEWATER AND SEWAGE PUMPS

Model	P2 kW	Discharge	3x400V 50Hz	
			£	Product Code
APG50.65.3	6.5	DN 50	10538	96835728
APG50.92.3	9.2	DN 50	11740	96835731

ELECTRIC MOTOR

400V 3ph 50Hz DOL

IP68 Enclosure

Class F insulation



ACCESSORIES FOR APG PUMPS

	£	Product Code
APG Auto-Coupling DN50	570	96005353

For additional accessories, see page 37

CATEGORY 3 - SEWAGE AND WASTE WATER PUMPS

50Hz

SL1 AUTOADAPT PUMPS

Model	P2 kW	Free passage	1x230V 50Hz		3x400V 50Hz	
			E.2.1.502.B		E.2.50B.B	
			£	Product Code	£	Product Code
SL1.50.65.09	0.9	50 mm	3091	96878450	3091	96878451
SL1.50.65.11	1.1	50 mm	3339	96878454	3339	96878455
SL1.50.65.15	1.5	50 mm	-		3810	96878458

SL1 AUTOADAPT EXPLOSION PROOF PUMPS

Model	P2 kW	Free passage	1x230V 50Hz		3x400V 50Hz	
			E.Ex.2.1.502.B		E.Ex.2.50B.B	
			£	Product Code	£	Product Code
SL1.50.65.09	0.9	50 mm	3404	96878452	3404	96878453
SL1.50.65.11	1.1	50 mm	3653	96878456	3653	96878457
SL1.50.65.15	1.5	50 mm	-		4122	96878472

SLV AUTOADAPT PUMPS

Model	P2 kW	Free passage	1x230V 50Hz		3x400V 50Hz	
			E.2.1.502.B		E.2.50B.B	
			£	Product Code	£	Product Code
SLV.65.65.09	0.9	65 mm	2692	96878474	2692	96878475
SLV.65.65.11	1.1	65 mm	2886	96882685	2886	96882686
SLV.65.65.15	1.5	65 mm	-		3299	96878503

SLV AUTOADAPT EXPLOSION PROOF PUMPS

Model	P2 kW	Free passage	1x230V 50Hz		3x400V 50Hz	
			E.Ex.2.1.502.B		E.Ex.2.50B.B	
			£	Product Code	£	Product Code
SLV.65.65.09	0.9	65 mm	2966	96878476	-	
SLV.65.65.11	1.1	65 mm	3160	96878480	3160	96878481
SLV.65.65.15	1.5	65 mm	-		3574	96878504

AutoAdapt pumps (including 1ph) do not require external starter or any controller if up to 4 pumps in the same pumping station.

ELECTRIC MOTOR

230V 1ph 50Hz
400-415V 3ph 50Hz
IP68 Enclosure
Class F insulation



DATA COMMUNICATION INTERFACE FOR WASTE WATER AUTOADAPT pumps



Model	£	Product Code
CIU 902 Waste Water Auto Adapt	686	97644690
CIM 050 GENibus	170	96824631
CIM 150 Profibus DP	352	96824793
CIM 500 Ethernet ^{see note 6)}	691	98301408
CIM 260 Cellular EU ¹⁾	697	99439302
CIM 280 GRM/GIC EU ^{1) 5)}	697	99439724

The above items are subject to Category 1 discount terms

ACCESSORIES FOR SL1 AND SLV AUTOADAPT PUMPS

	Pump discharge	AC discharge	Guide rails	£	Product Code
Complete cast iron auto coupling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2	547	96090992
		DN 80	1" 1/2	626	96102238

Additional accessories for SL1 and SLV Pumps as above are listed on page 37.

CATEGORY 3 - SL1 CHANNEL and S-TUBE IMPELLER PUMPS

50Hz

STANDARD WASTE WATER AND SEWAGE PUMPS FOR WET WELL APPLICATIONS

Model	P2 kW	Impeller type	Free passage	Discharge
SL1.50.65.09	0.9	channel	50 mm	DN65
SL1.50.65.11	1.1	channel	50 mm	DN65

SL1.50.65.09	0.9	channel	50 mm	DN65
SL1.50.65.11	1.1	channel	50 mm	DN65
SL1.50.65.15	1.5	channel	50 mm	DN65

SL1.50.65.22	2.2	S-Tube	50 mm	DN65
SL1.50.65.30	3	S-Tube	50 mm	DN65

SL1.50.65.40	4	S-Tube	50 mm	DN65
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SL1.50.80.22	2.2	S-Tube	50 mm	DN 80
SL1.50.80.30	3	S-Tube	50 mm	DN 80

SL1.50.80.40	4	S-Tube	50 mm	DN 80
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SL1.80.80.15	1.5	S-Tube	80 mm	DN 80
SL1.80.80.22	2.2	S-Tube	80 mm	DN 80
SL1.80.80.30	3	S-Tube	80 mm	DN 80

SL1.80.80.40	4	S-Tube	80 mm	DN 80
SL1.80.80.55	5.5	S-Tube	80 mm	DN 80
SL1.80.80.75	7.5	S-Tube	80 mm	DN 80

SL1.80.100.15	1.5	S-Tube	80 mm	DN 100
SL1.80.100.22	2.2	S-Tube	80 mm	DN 100
SL1.80.100.30	3	S-Tube	80 mm	DN 100

SL1.80.100.40	4	S-Tube	80 mm	DN 100
SL1.80.100.55	5.5	S-Tube	80 mm	DN 100
SL1.80.100.75	7.5	S-Tube	80 mm	DN 100

SL1.100.100.40.4.5	4	S-Tube	100 mm	DN 100
SL1.100.100.55.4.5	5.5	S-Tube	100 mm	DN 100
SL1.100.100.75.4.5	7.5	S-Tube	100 mm	DN 100

SL1.100.150.40.4.5	4	S-Tube	100 mm	DN 150
SL1.100.150.55.4.5	5.5	S-Tube	100 mm	DN 150
SL1.100.150.75.4.5	7.5	S-Tube	100 mm	DN 150

Pump descriptions with **50B** and **50D** use 7 x 1.5 mm² core motor cable for DOL starting
Pump descriptions with in **51D** use 10 x 1.5 mm² core motor cable for Y/D starting

Above Sensor versions monitor temperature, water in oil, stator insulation resistance and moisture in motor using a IO 113 sensor module (sold separately)

1x230V 50Hz	
STANDARD	
2.1.502	
£	Product Code
1776	96106562
2016	96104125

3x400V 50Hz	
STANDARD	
2.50B	
£	Product Code
1776	96106566
2016	96104129
2600	96104118

STANDARD	
2.50D.C	
2865	98624257
3231	98624258

2.51D.C	
3816	98624259

2.50D.C	
2922	98617678
3283	98626076

2.51D.C	
3870	98624260

4.50D.C	
3273	98624693
3521	98624251
4762	98624669

4.51D.C	
5394	98626052
6223	98624697
7094	98624703

4.50D.C	
3285	98625977
3539	98624695
4791	98625966

4.51D.C	
5409	98626053
6223	98626028
7155	98626066

5975	98624701
6809	98626029
7640	98626067

6068	98626054
6904	98626030
7736	98626068

1x230V 50Hz	
WITH CU100 CONTROL BOX	
A.2.1.502	
£	Product Code
2474	96106564
2494	96104127

3x400V 50Hz	
WITH CU100 CONTROL BOX	
A.2.50B	
£	Product Code
2255	96106570
2494	96104133
3105	96104122

SENSOR VERSION	
A.2.50D.C	
3740	98626303
4145	98626304

A.2.51D.C	
4789	98626316

A.2.50D.C	
3803	98617680
4202	98626306

A.2.51D.C	
4850	98626319

A.4.50D.C	
4079	98626189
4345	98624696
5677	98626175

A.4.51D.C	
6357	98626276
7247	98626246
8181	98626292

A.4.50D.C	
4093	98626190
4364	98626193
5710	98626176

A.4.51D.C	
6373	98626277
7247	98626247
8246	98626293

6993	98626278
7891	98626248
8786	98626294

7094	98626279
7993	98626250
8887	98626295

ELECTRIC MOTOR

230V 1ph 50Hz
400V 3ph 50Hz
IP68 Enclosure
Class F insulation

ACCESSORIES

	Pump discharge	AC discharge	Guide rails
Complete cast iron auto couling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2
		DN 80	1" 1/2
	DN 80	DN 80	1" 1/2
		DN 100	2"
	DN 100	DN 100	2"
		DN 150	2"
	DN 150		2"
		DN 150	3"

£	Product Code
547	96090992
626	96102238
627	96090993
1032	96102240
1033	96090994
1732	96102241
1578	96090995
1758	97695489

Additional accessories for SL1 and SLV Pumps as above are listed on pages 36/37.

CATEGORY 3 - SL1 CHANNEL and S-TUBE IMPELLER PUMPS
50Hz
EXPLOSION PROOF STANDARD WASTE WATER AND SEWAGE PUMPS FOR WET WELL APPLICATIONS

Model	P2 kW	Impeller type	Free passage	Discharge
SL1.50.65.09	0.9	channel	50 mm	DN65
SL1.50.65.11	1.1	channel	50 mm	DN65
SL1.50.65.15	1.5	channel	50 mm	DN65

SL1.50.65.22	2.2	S-Tube	50 mm	DN65
SL1.50.65.30	3	S-Tube	50 mm	DN65

SL1.50.65.40	4	S-Tube	50 mm	DN65
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SL1.50.80.22	2.2	S-Tube	50 mm	DN 80
SL1.50.80.30	3	S-Tube	50 mm	DN 80

SL1.50.80.40	4	S-Tube	50 mm	DN 80
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SL1.80.80.15	1.5	S-Tube	80 mm	DN 80
SL1.80.80.22	2.2	S-Tube	80 mm	DN 80
SL1.80.80.30	3	S-Tube	80 mm	DN 80

SL1.80.80.40	4	S-Tube	80 mm	DN 80
SL1.80.80.55	5.5	S-Tube	80 mm	DN 80
SL1.80.80.75	7.5	S-Tube	80 mm	DN 80

SL1.80.100.15	1.5	S-Tube	80 mm	DN 100
SL1.80.100.22	2.2	S-Tube	80 mm	DN 100
SL1.80.100.30	3	S-Tube	80 mm	DN 100

SL1.80.100.40	4	S-Tube	80 mm	DN 100
SL1.80.100.55	5.5	S-Tube	80 mm	DN 100
SL1.80.100.75	7.5	S-Tube	80 mm	DN 100

SL1.100.100.40.4.5	4	S-Tube	100 mm	DN 100
SL1.100.100.55.4.5	5.5	S-Tube	100 mm	DN 100
SL1.100.100.75.4.5	7.5	S-Tube	100 mm	DN 100

SL1.100.150.40.4.5	4	S-Tube	100 mm	DN 150
SL1.100.150.55.4.5	5.5	S-Tube	100 mm	DN 150
SL1.100.150.75.4.5	7.5	S-Tube	100 mm	DN 150

1x230V 50Hz	
ATEX	
Ex.2.1.502	
£	Product Code
2102	96106563
2354	96104126
-	

3x400V 50Hz	
ATEX	
Ex.2.50D.C	
3019	98626698
3385	98626699
Ex.2.51D.C	
3816	98626705
Ex.2.50D.C	
3075	98617679
3437	98626700

Ex.2.51D.C	
3870	98626708
Ex.4.50D.C	
3427	98626615
3675	98626619
5067	98626608

Ex.4.51D.C	
5700	98626676
6529	98626647
7461	98626687

Ex.4.50D.C	
3438	98626616
3692	98626620
5096	98626609

Ex.4.51D.C	
5715	98626677
6529	98626648
7522	98626688

6279	98626678
7114	98626649
8009	98626689

6374	98626679
7208	98626650
8102	98626690

3x400V 50Hz	
ATEX	
Ex.2.50B	
£	Product Code
2102	96106568
2354	96104131
2835	96104120

3x400V 50Hz	
SENSOR ATEX	
A.Ex.2.50D.C	
3909	98626482
4315	98626483
A.Ex.2.51D.C	
4789	98626489
A.Ex.2.50D.C	
3973	98617691
4372	98626484

A.Ex.2.51D.C	
4850	98626492
A.Ex.4.50D.C	
4244	98626399
4511	98626403
6006	98626392

A.Ex.4.51D.C	
6685	98626460
7574	98626431
8576	98626471

A.Ex.4.50D.C	
4257	98626400
4529	98626404
6036	98626393

A.Ex.4.51D.C	
6701	98626461
7574	98626432
8640	98626472

7321	98626462
8219	98626433
9182	98626473

7423	98626463
8320	98626434
9283	98626474

Pump descriptions with **50B** and **50D** use 7 x 1.5 mm2 core motor cable for DOL starting

Pump descriptions with in **51D** use 10 x 1.5 mm2 core motor cable for Y/D starting

ELECTRIC MOTOR

230V 1ph 50Hz

400V 3ph 50Hz

IP68 Enclosure

Class F insulation

Above Sensor versions monitor temperature, water in oil, stator insulation resistance and moisture in motor using a IO 113 sensor module (sold separately)


ACCESSORIES

	Pump discharge	AC discharge	Guide rails
Complete cast iron auto couling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2
		DN 80	1" 1/2
	DN 80	DN 80	1" 1/2
		DN 100	2"
	DN 100	DN 100	2"
		DN 150	2"
	DN 150	DN 150	2"
			3"

£	Product Code
547	96090992
626	96102238
627	96090993
1032	96102240
1033	96090994
1732	96102241
1578	96090995
1758	97695489

Additional accessories for SL1 and SLV Pumps as above are listed on pages 36/37.

CATEGORY 3 - SLV VORTEX IMPELLER PUMPS

STANDARD WASTE WATER AND SEWAGE PUMPS FOR WET WELL APPLICATIONS

Model	P2 kW	Impeller type	Free passage	Discharge
SLV.65.65.09	0.9	Vortex	65 mm	DN 65
SLV.65.65.11	1.1	Vortex	65 mm	DN 65

SLV.65.65.09	0.9	Vortex	65 mm	DN 65
SLV.65.65.11	1.1	Vortex	65 mm	DN 65
SLV.65.65.15	1.5	Vortex	65 mm	DN 65

SLV.65.65.22	2.2	Vortex	65 mm	DN 65
SLV.65.65.30	3	Vortex	65 mm	DN 65

SLV.65.65.40	4	Vortex	65 mm	DN 65
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SLV.65.80.22	2.2	Vortex	65 mm	DN 80
SLV.65.80.30	3	Vortex	65 mm	DN 80

SLV.65.80.40	4	Vortex	65 mm	DN 80
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SLV.80.80.11	1.1	Vortex	80 mm	DN 80
SLV.80.80.13	1.3	Vortex	80 mm	DN 80
SLV.80.80.15	1.5	Vortex	80 mm	DN 80
SLV.80.80.22	2.2	Vortex	80 mm	DN 80

SLV.80.80.40	4	Vortex	80 mm	DN 80
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SLV.80.80.40	4	Vortex	80 mm	DN 80
SLV.80.80.60	6	Vortex	80 mm	DN 80
SLV.80.80.75	7.5	Vortex	80 mm	DN 80
SLV.80.80.92	9.2	Vortex	80 mm	DN 80
SLV.80.80.110	11	Vortex	80 mm	DN 80

SLV.80.100.11	1.1	Vortex	80 mm	DN 100
SLV.80.100.13	1.3	Vortex	80 mm	DN 100
SLV.80.100.15	1.5	Vortex	80 mm	DN 100
SLV.80.100.22	2.2	Vortex	80 mm	DN 100

SLV.80.100.40	4	Vortex	80 mm	DN 100
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SLV.80.100.60	6	Vortex	80 mm	DN 100
SLV.80.100.75	7.5	Vortex	80 mm	DN 100
SLV.80.100.92	9.2	Vortex	80 mm	DN 100
SLV.80.100.110	11	Vortex	80 mm	DN 100

SLV.100.100.30	3	Vortex	100 mm	DN 100
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SLV.100.100.40	4	Vortex	100 mm	DN 100
SLV.100.100.55	5.5	Vortex	100 mm	DN 100
SLV.100.100.75	7.5	Vortex	100 mm	DN 100

Pump descriptions with **50B** and **50D** use 7 x 1.5 mm² core motor cable for DOL starting
Pump descriptions with in **51D** use 10 x 1.5 mm² core motor cable for Y/D starting

Above Sensor versions monitor temperature, water in oil, stator insulation resistance and moisture in motor using a IO 113 sensor module (sold separately)

ELECTRIC MOTOR

230V 1ph 50Hz
400V 3ph 50Hz
IP68 Enclosure
Class F insulation

1x230V 50Hz	
STANDARD	
2.1.502	
£	Product Code
1538	96115119
1727	96106573

3x400V 50Hz	
STANDARD	
2.50B	
£	Product Code
1538	96115123
1675	96106577
2240	96104192

STANDARD	
2.50D.C	
3243	98624199
3362	98624165
2.51D.C	
3963	98624254
2.50D.C	
3263	98625961
3382	98625942
2.51D.C	
3985	98624699
4.50D.C	
3104	98625975
3184	98624692
3223	98624694
3282	98624252
4.51D.C	
3710	98624702
2.51D.C	
3968	98626039
4868	98626041
5884	98624255
6199	98626047
6831	98624700
4.50D.C	
3174	98624691
3256	98625976
3295	98625978
3355	98625979
4.51D.C	
3781	98626055
2.51D.C	
4941	98626042
5953	98626046
6271	98626048
6903	98626043
4.50D.C	
4143	98625967
4.51D.C	
4440	98626056
5323	98626031
6460	98624704

1x230V 50Hz	
WITH CU100 CONTROL BOX	
A.2.1.502	
£	Product Code
1959	96115121
2148	96106575

3x400V 50Hz	
WITH CU100 CONTROL BOX	
A.2.50B	
£	Product Code
1959	96115125
2148	96106579
2682	96104194

SENSOR VERSION	
A.2.50D.C	
4007	98626169
4134	98626159
A.2.51D.C	
4772	98626259
A.2.50D.C	
4028	98626170
4154	98626160
A.2.51D.C	
4796	98626260
A.4.50D.C	
3623	98626185
3702	98626187
3741	98626191
3801	98626194
A.4.51D.C	
4227	98626280
A.2.51D.C	
4484	98626261
5383	98626263
6395	98626269
6710	98626271
7342	98626265
A.4.50D.C	
3692	98626186
3775	98626188
3813	98626192
3873	98626195
A.4.51D.C	
4299	98626281
A.2.51D.C	
5455	98626264
6465	98626270
6782	98626272
7413	98626266
A.4.50D.C	
5102	98626177
A.4.51D.C	
5425	98626282
6392	98626251
7633	98626296

ACCESSORIES

	Pump discharge	AC discharge	Guide rails
Complete cast iron auto couling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2
		DN 80	1" 1/2
	DN 80	DN 80	1" 1/2
		DN 100	2"
	DN 100	DN 100	2"
		DN 150	2"

£	Product Code
547	96090992
626	96102238
627	96090993
1032	96102240
1033	96090994
1732	96102241

Additional accessories for SL1 and SLV Pumps as above are listed on pages 36/37.

June 2022

CATEGORY 3 - SLV VORTEX IMPELLER PUMPS

EXPLOSION PROOF WASTE WATER AND SEWAGE PUMPS FOR WET WELL APPLICATIONS

Model	P2 kW	Impeller type	Free passage	Discharge
SLV.65.65.09	0.9	Vortex	65 mm	DN 65
SLV.65.65.11	1.1	Vortex	65 mm	DN 65
SLV.65.65.15	1.5	Vortex	65 mm	DN 65

SLV.65.65.22	2.2	Vortex	65 mm	DN 65
SLV.65.65.30	3	Vortex	65 mm	DN 65

SLV.65.65.40	4	Vortex	65 mm	DN 65
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SLV.65.80.22	2.2	Vortex	65 mm	DN 80
SLV.65.80.30	3	Vortex	65 mm	DN 80

SLV.65.80.40	4	Vortex	65 mm	DN 80
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SLV.80.80.11	1.1	Vortex	80 mm	DN 80
SLV.80.80.13	1.3	Vortex	80 mm	DN 80
SLV.80.80.15	1.5	Vortex	80 mm	DN 80
SLV.80.80.22	2.2	Vortex	80 mm	DN 80

SLV.80.80.40	4	Vortex	80 mm	DN 80
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SLV.80.80.40	4	Vortex	80 mm	DN 80
SLV.80.80.60	6	Vortex	80 mm	DN 80
SLV.80.80.75	7.5	Vortex	80 mm	DN 80
SLV.80.80.92	9.2	Vortex	80 mm	DN 80
SLV.80.80.110	11	Vortex	80 mm	DN 80

SLV.80.100.11	1.1	Vortex	80 mm	DN 100
SLV.80.100.13	1.3	Vortex	80 mm	DN 100
SLV.80.100.15	1.5	Vortex	80 mm	DN 100
SLV.80.100.22	2.2	Vortex	80 mm	DN 100

SLV.80.100.40	4	Vortex	80 mm	DN 100
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SLV.80.100.40	4	Vortex	80 mm	DN 100
SLV.80.100.60	6	Vortex	80 mm	DN 100
SLV.80.100.75	7.5	Vortex	80 mm	DN 100
SLV.80.100.92	9.2	Vortex	80 mm	DN 100
SLV.80.100.110	11	Vortex	80 mm	DN 100

SLV.100.100.30	3	Vortex	100 mm	DN 100
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SLV.100.100.40	4	Vortex	100 mm	DN 100
SLV.100.100.55	5.5	Vortex	100 mm	DN 100
SLV.100.100.75	7.5	Vortex	100 mm	DN 100

Pump descriptions with **50B** and **50D** use 7 x 1.5 mm² core motor cable for DOL starting

Pump descriptions with in **51D** use 10 x 1.5 mm² core motor cable for Y/D starting

Above Sensor versions monitor temperature, water in oil, stator insulation resistance and moisture in motor using a IO 113 sensor module (sold separately)

ELECTRIC MOTOR

230V 1ph 50Hz

400V 3ph 50Hz

IP68 Enclosure

Class F insulation

1x230V 50Hz	
ATEX	
Ex.2.1.502	
£	Product Code
1824	96115120
2022	96106574
-	

3x400V 50Hz	
ATEX	
Ex.2.50D.C	
3397	98626606
3517	98626604
Ex.2.51D.C	
3963	98626659
Ex.2.50D.C	
3417	98626607
3536	98626605
Ex.2.51D.C	
3985	98626660
Ex.4.50D.C	
3258	98626611
3338	98626613
3378	98626617
3436	98626621
Ex.4.51D.C	
4014	98626680
Ex.2.51D.C	
3968	98626661
5173	98626663
6188	98626669
6566	98626671
7198	98626665
Ex.4.50D.C	
3328	98626612
3410	98626614
3450	98626618
3508	98626622
Ex.4.51D.C	
4087	98626681
Ex.2.51D.C	
4038	98626662
5245	98626664
6257	98626670
6638	98626672
7270	98626666
Ex.4.50D.C	
4447	98626610
Ex.4.51D.C	
4744	98626682
5628	98626651
6827	98626691

3x400V 50Hz	
ATEX	
Ex.2.50B	
£	Product Code
1824	96115124
2022	96106578
2443	96104193

3x400V 50Hz	
SENSOR ATEX	
A.Ex.2.50D.C	
4170	98626390
4298	98626388
A.Ex.2.51D.C	
4772	98626443
A.Ex.2.50D.C	
4193	98626391
4318	98626389
A.Ex.2.51D.C	
4796	98626444
A.Ex.4.50D.C	
3777	98626395
3855	98626397
3895	98626401
3955	98626405
A.Ex.4.51D.C	
4532	98626464
A.Ex.2.51D.C	
4484	98626445
5687	98626447
6701	98626453
7077	98626455
7708	98626449
A.Ex.4.50D.C	
3846	98626396
3927	98626398
3967	98626402
4026	98626406
A.Ex.4.51D.C	
4603	98626465
A.Ex.2.51D.C	
4553	98626446
5760	98626448
6770	98626454
7148	98626456
7779	98626450
A.Ex.4.50D.C	
5434	98626394
A.Ex.4.51D.C	
5758	98626466
6725	98626435
8034	98626475

ACCESSORIES

	Pump discharge	AC discharge	Guide rails
Complete cast iron auto couling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2
		DN 80	1" 1/2
	DN 80	DN 80	1" 1/2
		DN 100	2"
	DN 100	DN 100	2"
		DN 150	2"

£	Product Code
547	96090992
626	96102238
627	96090993
1032	96102240
1033	96090994
1732	96102241

Additional accessories for SL1 and SLV Pumps as above are listed on pages 36/37.

CATEGORY 3 - SE1 S-TUBE IMPELLER PUMPS

STANDARD WASTE WATER AND SEWAGE PUMPS FOR WET OR DRY WELL APPLICATIONS

Model	P2 kW	Impeller type	Free passage	Discharge
SE1.50.65.22	2.2	S-Tube	50 mm	DN 65
SE1.50.65.30	3	S-Tube	50 mm	DN 65
SE1.50.65.40	4	S-Tube	50 mm	DN 65
SE1.50.80.22	2.2	S-Tube	50 mm	DN 80
SE1.50.80.30	3	S-Tube	50 mm	DN 80
SE1.50.80.40	4	S-Tube	50 mm	DN 80
SE1.80.80.15	1.5	S-Tube	80 mm	DN 80
SE1.80.80.22	2.2	S-Tube	80 mm	DN 80
SE1.80.80.30	3	S-Tube	80 mm	DN 80
SE1.80.80.40	4	S-Tube	80 mm	DN 80
SE1.80.80.55	5.5	S-Tube	80 mm	DN 80
SE1.80.80.75	7.5	S-Tube	80 mm	DN 80
SE1.80.100.15	1.5	S-Tube	80 mm	DN 100
SE1.80.100.22	2.2	S-Tube	80 mm	DN 100
SE1.80.100.30	3	S-Tube	80 mm	DN 100
SE1.80.100.40	4	S-Tube	80 mm	DN 100
SE1.80.100.55	5.5	S-Tube	80 mm	DN 100
SE1.80.100.75	7.5	S-Tube	80 mm	DN 100
SE1.100.100.40	4	S-Tube	100 mm	DN 100
SE1.100.100.55	5.5	S-Tube	100 mm	DN 100
SE1.100.100.75	7.5	S-Tube	100 mm	DN 100
SE1.100.150.40	4	S-Tube	100 mm	DN 150
SE1.100.150.55	5.5	S-Tube	100 mm	DN 150
SE1.100.150.75	7.5	S-Tube	100 mm	DN 150

3x400V 50Hz	
STANDARD	
2.50D.B	
£	Product Code
3439	96047509
3722	96047517
2.51D.B	
4568	96047525
2.50D.B	
3499	96047981
3779	96047989
2.51D.B	
4624	96047997
4.50D.B	
3805	96047533
4088	96047549
5076	96047565
4.51D.B	
5604	96047597
6463	96047613
7367	96047627
4.50D.B	
3498	96048005
3780	96048021
4994	96048037
4.51D.B	
5616	96048069
6463	96048085
7428	96048099
6244	96047641
7182	96047657
8075	96047671
6405	96048113
7277	96048129
8173	96048143

3x400V 50Hz	
SENSOR	
A.2.50D.B	
£	Product Code
4619	96177629
4924	96177630
A.2.51D.B	
5833	96177631
A.2.50D.B	
4683	96177632
4984	96177633
A.2.51D.B	
5893	96177634
A.4.50D.B	
4542	96177635
4823	96177636
5813	96177637
A.4.51D.B	
6338	96177638
7198	96177639
8101	96177640
A.4.50D.B	
4211	96177641
4495	96177642
5729	96177643
A.4.51D.B	
6350	96177644
7198	96177645
8162	96177646
7521	96177647
8531	96177648
9493	96177649
7799	96177650
8631	96177651
9598	96177652

Pump descriptions with **50B** and **50D** use 7 x 1.5 mm² core motor cable for DOL starting
Pump descriptions with in **51D** use 10 x 1.5 mm² core motor cable for Y/D starting

ELECTRIC MOTOR

400V 3ph 50Hz
IP68 Enclosure
Class F insulation

Above Sensor versions monitor temperature, water in oil, stator insulation resistance and moisture in motor using a IO 113 sensor module (sold separately)



ACCESSORIES

	Pump discharge	AC discharge	Guide rails		£	Product Code
Complete cast iron auto couling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2		547	96090992
		DN 80	1" 1/2		626	96102238
	DN 80	DN 80	1" 1/2		627	96090993
		DN 100	2"		1032	96102240
	DN 100	DN 100	2"		1033	96090994
		DN 150	2"		1732	96102241
	DN 150		2"		1578	96090995
		DN 150	3"		1758	97695489

Additional accessories for SL1 and SLV Pumps as above are listed on pages 36/37.



CATEGORY 3 - SE1 S-TUBE IMPELLER PUMPS

EXPLOSION PROOF WASTE WATER AND SEWAGE PUMPS FOR WET OR DRY WELL APPLICATIONS

Model	P2 kW	Impeller type	Free passage	Discharge
SE1.50.65.22	2.2	S-Tube	50 mm	DN 65
SE1.50.65.30	3	S-Tube	50 mm	DN 65
SE1.50.65.40	4	S-Tube	50 mm	DN 65
SE1.50.80.22	2.2	S-Tube	50 mm	DN 80
SE1.50.80.30	3	S-Tube	50 mm	DN 80
SE1.50.80.40	4	S-Tube	50 mm	DN 80
SE1.80.80.15	1.5	S-Tube	80 mm	DN 80
SE1.80.80.22	2.2	S-Tube	80 mm	DN 80
SE1.80.80.30	3	S-Tube	80 mm	DN 80
SE1.80.80.40	4	S-Tube	80 mm	DN 80
SE1.80.80.55	5.5	S-Tube	80 mm	DN 80
SE1.80.80.75	7.5	S-Tube	80 mm	DN 80
SE1.80.100.15	1.5	S-Tube	80 mm	DN 100
SE1.80.100.22	2.2	S-Tube	80 mm	DN 100
SE1.80.100.30	3	S-Tube	80 mm	DN 100
SE1.80.100.40	4	S-Tube	80 mm	DN 100
SE1.80.100.55	5.5	S-Tube	80 mm	DN 100
SE1.80.100.75	7.5	S-Tube	80 mm	DN 100
SE1.100.100.40	4	S-Tube	100 mm	DN 100
SE1.100.100.55	5.5	S-Tube	100 mm	DN 100
SE1.100.100.75	7.5	S-Tube	100 mm	DN 100
SE1.100.150.40	4	S-Tube	100 mm	DN 150
SE1.100.150.55	5.5	S-Tube	100 mm	DN 150
SE1.100.150.75	7.5	S-Tube	100 mm	DN 150

3x400V 50Hz	
ATEX WITH SENSOR	
A.Ex.2.50D.B	
£	Product Code
5088	96177673
5431	96177674
A.Ex.2.51D.B	
6410	96177675
A.Ex.2.50D.B	
5099	96177676
5448	96177677
A.Ex.2.51D.B	
6418	96177678
A.Ex.4.50D.B	
5009	96177679
5316	96177680
6431	96177681
A.Ex.4.51D.B	
7022	96177682
7973	96177683
8963	96177684
A.Ex.4.50D.B	
4701	96177685
4988	96177686
6350	96177687
A.Ex.4.51D.B	
7038	96177688
7804	96177689
8779	96177690
8153	96177691
9236	96177692
10275	96177693
8295	96177694
9324	96177695
10385	96177696

Pump descriptions with **50B** and **50D** use 7 x 1.5 mm² core motor cable for DOL starting

Pump descriptions with in **51D** use 10 x 1.5 mm² core motor cable for Y/D starting

ELECTRIC MOTOR

400V 3ph 50Hz

IP68 Enclosure

Class F insulation

Above Sensor versions monitor temperature, water in oil, stator insulation resistance and moisture in motor using a IO 113 sensor module (sold separately)



ACCESSORIES

	Pump discharge	AC discharge	Guide rails
Complete cast iron auto couling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2
		DN 80	1" 1/2
	DN 80	DN 80	1" 1/2
		DN 100	2"
	DN 100	DN 100	2"
		DN 150	2"
	DN 150	DN 150	2"
		DN 150	3"

£	Product Code
547	96090992
626	96102238
627	96090993
1032	96102240
1033	96090994
1732	96102241
1578	96090995
1758	97695489

Additional accessories for SL1 and SLV Pumps as above are listed on pages 36/37.



CATEGORY 3 - SEV VORTEX IMPELLER PUMPS

STANDARD WASTE WATER AND SEWAGE PUMPS FOR WET OR DRY WELL APPLICATIONS

Model	P2 kW	Impeller type	Free passage	Discharge
SEV.65.65.22	2.2	Vortex	65 mm	DN 65
SEV.65.65.30	3	Vortex	65 mm	DN 65
SEV.65.65.40	4	Vortex	65 mm	DN 65
SEV.65.80.22	2.2	Vortex	65 mm	DN 65
SEV.65.80.30	3	Vortex	65 mm	DN 65
SEV.65.80.40	4	Vortex	65 mm	DN 65
SEV.80.80.11	1.1	Vortex	80 mm	DN 80
SEV.80.80.13	1.3	Vortex	80 mm	DN 80
SEV.80.80.15	1.5	Vortex	80 mm	DN 80
SEV.80.80.22	2.2	Vortex	80 mm	DN 80
SEV.80.80.40	4	Vortex	80 mm	DN 80
SEV.80.80.40	4	Vortex	80 mm	DN 80
SEV.80.80.60	6	Vortex	80 mm	DN 80
SEV.80.80.75	7.5	Vortex	80 mm	DN 80
SEV.80.80.92	9.2	Vortex	80 mm	DN 80
SEV.80.80.110	11	Vortex	80 mm	DN 80
SEV.80.100.11	1.1	Vortex	80 mm	DN 100
SEV.80.100.13	1.3	Vortex	80 mm	DN 100
SEV.80.100.15	1.5	Vortex	80 mm	DN 100
SEV.80.100.22	2.2	Vortex	80 mm	DN 100
SEV.80.100.40	4	Vortex	80 mm	DN 100
SEV.80.100.40	4	Vortex	80 mm	DN 100
SEV.80.100.60	6	Vortex	80 mm	DN 100
SEV.80.100.75	7.5	Vortex	80 mm	DN 100
SEV.80.100.92	9.2	Vortex	80 mm	DN 100
SEV.80.100.110	11	Vortex	80 mm	DN 100
SEV.100.100.30	3	Vortex	100 mm	DN 100
SEV.100.100.40	4	Vortex	100 mm	DN 100
SEV.100.100.55	5.5	Vortex	100 mm	DN 100
SEV.100.100.75	7.5	Vortex	100 mm	DN 100

3x400V 50Hz	
STANDARD	
2.50D	
£	Product Code
3569	96047697
3867	96047713
2.51D	
4758	96047729
2.50D	
3629	96048169
3925	96048185
2.51D	
4820	96048201
4.50D	
3670	96047745
3731	96047757
3781	96047769
3850	96047781
4.51D	
4375	96047797
2.51D	
5273	96047829
5716	96047845
7245	96047861
7612	96047207
7628	96047877
4.50D	
3732	96780674
3795	96780676
3845	96780678
4133	96780680
4.51D	
4439	96780682
2.51D	
5336	96780684
5780	96780686
7307	96780688
7674	96780690
7690	96780692
4.50D	
4886	96047893
4.51D	
5211	96047925
6254	96047941
7584	96047957

3x400V 50Hz	
SENSOR	
A.2.50D	
£	Product Code
4460	96177653
4757	96177654
A.2.51D	
5649	96177655
A.2.50D	
4519	96177656
4817	96177657
A.2.51D	
5711	96177658
A.4.50D	
4430	96177659
4493	96177660
4543	96177661
4687	96177662
A.4.51D	
5137	96177663
A.2.51D	
6033	96177664
6477	96177665
8005	96177666
8372	96177667
8869	96177668
A.4.50D	
4493	96780694
4554	96780696
4604	96780698
4672	96780700
A.4.51D	
5198	96780702
A.2.51D	
6097	96780704
6539	96780706
8068	96780708
8435	96780710
8452	96780712
A.4.50D	
5648	96177669
A.4.51D	
5972	96177670
7016	96177671
8346	96177672

Pump descriptions with **50B** and **50D** use 7 x 1.5 mm² core motor cable for DOL starting

Pump descriptions with in **51D** use 10 x 1.5 mm² core motor cable for Y/D starting

ELECTRIC MOTOR

400V 3ph 50Hz

IP68 Enclosure

Class F insulation

Above Sensor versions monitor temperature, water in oil, stator insulation resistance and moisture in motor using a IO 113 sensor module (sold separately)



ACCESSORIES

	Pump discharge	AC discharge	Guide rails
Complete cast iron auto coupling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2
		DN 80	1" 1/2
	DN 80	DN 80	1" 1/2
		DN 100	2"
	DN 100	DN 100	2"
		DN 150	2"

£	Product Code
547	96090992
626	96102238
627	96090993
1032	96102240
1033	96090994
1732	96102241

Additional accessories for SL1 and SLV Pumps as above are listed on pages 36/37.



CATEGORY 3 - SEV VORTEX IMPELLER PUMPS

STANDARD WASTE WATER AND SEWAGE PUMPS FOR WET OR DRY WELL APPLICATIONS

Model	P2 kW	Impeller type	Free passage	Discharge
SEV.65.65.22	2.2	Vortex	65 mm	DN 65
SEV.65.65.30	3	Vortex	65 mm	DN 65
SEV.65.65.40	4	Vortex	65 mm	DN 65
SEV.65.80.22	2.2	Vortex	65 mm	DN 65
SEV.65.80.30	3	Vortex	65 mm	DN 65
SEV.65.80.40	4	Vortex	65 mm	DN 65
SEV.80.80.11	1.1	Vortex	80 mm	DN 80
SEV.80.80.13	1.3	Vortex	80 mm	DN 80
SEV.80.80.15	1.5	Vortex	80 mm	DN 80
SEV.80.80.22	2.2	Vortex	80 mm	DN 80
SEV.80.80.40	4	Vortex	80 mm	DN 80
SEV.80.80.40	4	Vortex	80 mm	DN 80
SEV.80.80.60	6	Vortex	80 mm	DN 80
SEV.80.80.75	7.5	Vortex	80 mm	DN 80
SEV.80.80.92	9.2	Vortex	80 mm	DN 80
SEV.80.80.110	11	Vortex	80 mm	DN 80
SEV.80.100.11	1.1	Vortex	80 mm	DN 100
SEV.80.100.13	1.3	Vortex	80 mm	DN 100
SEV.80.100.15	1.5	Vortex	80 mm	DN 100
SEV.80.100.22	2.2	Vortex	80 mm	DN 100
SEV.80.100.40	4	Vortex	80 mm	DN 100
SEV.80.100.40	4	Vortex	80 mm	DN 100
SEV.80.100.60	6	Vortex	80 mm	DN 100
SEV.80.100.75	7.5	Vortex	80 mm	DN 100
SEV.80.100.92	9.2	Vortex	80 mm	DN 100
SEV.80.100.110	11	Vortex	80 mm	DN 100
SEV.100.100.30	3	Vortex	100 mm	DN 100
SEV.100.100.40	4	Vortex	100 mm	DN 100
SEV.100.100.55	5.5	Vortex	100 mm	DN 100
SEV.100.100.75	7.5	Vortex	100 mm	DN 100

Pump descriptions with **50B** and **50D** use 7 x 1.5 mm² core motor cable for DOL starting
Pump descriptions with in **51D** use 10 x 1.5 mm² core motor cable for Y/D starting

ELECTRIC MOTOR

400V 3ph 50Hz
IP68 Enclosure
Class F insulation

Above Sensor versions monitor temperature, water in oil, stator insulation resistance and moisture in motor using a IO 113 sensor module (sold separately)

3x400V 50Hz	
ATEX WITH SENSOR	
A.Ex.2.50D	
£	Product Code
4944	96177697
5280	96177698
A.Ex.2.51D	
6269	96177699
A.Ex.2.50D	
4997	96177700
5336	96177701
A.Ex.2.51D	
6330	96177702
A.Ex.4.50D	
4740	96177703
4803	96177704
4878	96177705
4993	96177706
A.Ex.4.51D	
5905	96177707
A.Ex.2.51D	
6240	96177708
7152	96177709
8780	96177710
9061	96177711
8933	96177712
A.Ex.4.50D	
4802	96780734
4866	96780736
4942	96780738
5056	96780740
A.Ex.4.51D	
5967	96780742
A.Ex.2.51D	
6259	96780744
7215	96780746
8841	96780748
9121	96780750
8995	96780752
A.Ex.4.50D	
6248	96177713
A.Ex.4.51D	
6602	96177714
7595	96177715
9015	96177716



ACCESSORIES

	Pump discharge	AC discharge	Guide rails
Complete cast iron auto couling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2
		DN 80	1" 1/2
	DN 80	DN 80	1" 1/2
		DN 100	2"
	DN 100	DN 100	2"
		DN 150	2"

£	Product Code
547	96090992
626	96102238
627	96090993
1032	96102240
1033	96090994
1732	96102241

Additional accessories for SL1 and SLV Pumps as above are listed on pages 36/37.

CATEGORY 3 - SL1/SLV & SE1/SEV - ACCESSORIES

AUTO COUPLING FOR SL1/SLV AND SE1/SEV



	Pump discharge	AC discharge	Guide rails	£	Product Code
Complete cast iron auto coupling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2	547	96090992
		DN 80	1" 1/2	626	96102238
	DN 80	DN 80	1" 1/2	627	96090993
		DN 100	2"	1032	96102240
	DN 100	DN 100	2"	1033	96090994
		DN 150	2"	1732	96102241
	DN 150	DN 150	2"	1578	96090995
			3"	1758	97695489

INTERMEDIATE GUIDE RAIL HOLDER FOR SL1/SLV AND SE1/SEV



		Guide rails	£	Product Code
Consider using a IGRH if the guide rail length exceeds	DN 40	1"	POA	96825111
		1" 1/2	121	96825119
	DN 80	1" 1/2	122	96825142
		2"	164	96825161
	DN 150	3"	186	96887674

PORTABLE SUBMERGED INSTALLATION FOR SL1/SLV AND SE1/SEV



		£	Product Code
Ring stand with flanged 90 degree elbow and hose connection	DN 65	278	96102253
	DN 80	299	96102254
	DN 100	349	96102255
	DN 150	2019	96102256

VERTICAL DRY INSTALLATION FOR SE1/SEV (NOT SUITABLE FOR SL1/SLV)



	Pump suction	Baseplate suction	£	Product Code
Base stand for vertical dry installation, including 90 ° elbow in galvanised steel.	DN 65	DN 65	838	96102257
	DN 80	DN 80	1069	96102258
		DN 100	1164	96567174
	DN 100	DN 100	1655	96102259
		DN 150	1517	96567175
	DN 150	DN 150	1946	96102260
		DN 200	2132	96567176

HORIZONTAL DRY INSTALLATION (SE1 & SEV ONLY - SL1 & SLV NOT SUITABLE FOR DRYWELL MOUNTING)



			£	Product Code
Brackets for horizontal dry installation	DN 65	2.2 - 3kW, 2 pole	396	99451462
	DN 65	4kW, 2 pole	416	99451490
	DN 80	2.2 - 3kW, 2 pole	420	99451456
	DN 80	1.1 - 2.2kW, 4 pole	420	99451456
	DN 80	4 - 7.5kW, 2 pole	423	99451488
	DN 80	4kW, 4 pole	423	99451488
	DN 80	9.2 - 11kW, 2 pole	380	99451492
	DN 100	1.5 - 2.2kW, 4 pole	448	99451460
	DN 100	3 - 5.5kW, 4 pole	451	99451485
	DN 100	7.5kW, 4 pole	397	99451504
	DN 150	4 - 5.5kW, 4 pole	742	99451491
	DN 150	7.5kW, 4 pole	749	99451507

IO113 SENSOR MODULE FOR SL/SE PUMPS WITH SENSOR

IO 113 Module used to interface WIO sensor

		£	Product Code
Standard Variant	24 VAC/VDC	1010	98097391
With communication module	24 VAC/VDC	1064	98711370



CATEGORY 3 - WASTE WATER ANCILLIARY ITEMS**GALVANIZED GUIDE RAILS**

Model	ID	OD	Nominal Length	£	Product Code
Rail Galv 1"	25 mm	33.7 mm	3.2 m	133	99314687
Rail Galv 1 1/2"	40 mm	48.3 mm	3.2 m	178	99314688
Rail Galv 2"	50 mm	60.3 mm	3.2 m	250	99314690
Rail Galv 2 1/2"	65 mm	76.1 mm	3.2 m	349	99314691
Rail Galv 3"	80 mm	88.9 mm	3.2 m	481	99314692

STAINLESS STEEL GUIDE RAILS

Model	ID	OD	Nominal Length	£	Product Code
Rail 316 S/Steel 1"	25 mm	33.4 mm	3 m	127	99327897
Rail 316 S/Steel 1 1/2"	40 mm	48.3 mm	3 m	181	99327900
Rail 316 S/Steel 2"	50 mm	60.3 mm	3 m	231	99327901
Rail 316 S/Steel 2 1/2"	65 mm	73 mm	3 m	382	99327902
Rail 316 S/Steel 3"	80 mm	88.9 mm	3 m	450	99327913

CHAIN AND SHACKLE

	Lenght	£	Product Code
Lifting chain with shackle 320kg Stainless Steel	3 m	109	98989664
Lifting chain with shackle 320kg Stainless Steel	6 m	170	98989668
Lifting chain with shackle 320kg Stainless Steel	10 m	249	98989672
Lifting chain with shackle 500kg Stainless Steel	3 m	171	98538175
Lifting chain with shackle 500kg Stainless Steel	6 m	276	98538177
Lifting chain with shackle 500kg Stainless Steel	10 m	389	98538179
Lifting chain with shackle 800kg Stainless Steel	4 m	457	98425797
Lifting chain with shackle 800kg Stainless Steel	6 m	580	98425798
Lifting chain with shackle 800kg Stainless Steel	10 m	783	98425800
Lifting chain with shackle 800kg - GALVANISED	4 m	221	98425760
Lifting chain with shackle 800kg - GALVANISED	6 m	293	98425781
Lifting chain with shackle 800kg - GALVANISED	10 m	443	98425783

FLOAT SWITCH LEVEL CONTROLS - MERCURY FREE

Model	£	Product Code
2 Float switch kit	527	62500013
3 Float switch kit	841	62500014
4 Float switch kit	1060	62500015
3 Float switch kit for ATEX	1114	62500017
4 Float switch kit for ATEX	1428	62500018
LC-EX4 intrinsically safe Zener barrier for ATEX Environments	1,277	96440300

Model	£	Product Code
Single float switch - 10m cable*	209	96003332
Single float switch - 20m cable*	280	96003695
ATEX float switch - 10m cable*	291	96003421
ATEX float switch - 20m cable*	364	96003536
* without accessories		
Float switch SLC 10E	179	98664108
Float switch SLC 20E	228	98664110

CATEGORY 3 - PUMPING STATIONS AND LIFTING STATIONS

PREFABRICATED PUMPING STATIONS

Formerly known as PUST10.

Model	Nominal Diameter	Depth (mm)	Pump Type	Solids Size (mm)	No. Pumps	£	Product code
PS.R.12.20.S.GC.304.50.A50.SEG	1200 mm	2000 mm	SEG	Grinder	1	3,324	96235302
PS.R.12.25.S.GC.304.50.A50.SEG	1200 mm	2500 mm	SEG	Grinder	1	3,705	96235303
PS.R.12.20.S.GC.304.50.A50.APB	1200 mm	2000 mm	AP50B	50	1	3,324	96235308
PS.R.12.25.S.GC.304.50.A50.APB	1200 mm	2500 mm	AP50B	50	1	3,705	96235309
PS.R.12.20.S.GC.304.65.A65.DP/SL	1200 mm	2000 mm	DP10.65/SLV/SL1*	up to 65	1	4,948	96235320
PS.R.12.25.S.GC.304.65.A65.DP/SL	1200 mm	2500 mm	DP10.65/SLV/SL1*	up to 65	1	5,357	96235321
PS.R.12.20.D.GC.304.50.A50.SEG	1200 mm	2000 mm	SEG	Grinder	2	4,595	96235322
PS.R.12.25.D.GC.304.50.A50.SEG	1200 mm	2500 mm	SEG	Grinder	2	5,245	96235323
PS.R.12.20.D.GC.304.50.A50.APB	1200 mm	2000 mm	AP50B	50	2	4,595	96235326
PS.R.12.25.D.GC.304.50.A50.APB	1200 mm	2500 mm	AP50B	50	2	5,245	96235327
PS.R.12.20.D.GC.304.65.A65.DP/SL	1200 mm	2000 mm	DP10.65/SLV*	up to 65	2	7,097	96235334
PS.R.12.25.D.GC.304.65.A65.DP/SL	1200 mm	2500 mm	DP10.65/SLV*	up to 65	2	7,882	96235335

* Maximum pump size from SL1 range is the SL1.50.65.15 (1.50kW) & from the SLV range is the SLV.65.65.15 (1.50kW)

Includes auto couplings and internal pipework with valves.

Pumps not included.

MULTILIFT WASTE WATER AND SEWAGE LIFTING STATIONS - DRY INSTALLED

Model (With Starter)	Nº pumps	P2 kW	Cable	Plug	240V 1Ph 50Hz	
					£	Product Code
M.12.1.4	1	1.2	1.5m	SCHUKO	5,280	97901064
M.15.1.4	1	1.5	1.5m	SCHUKO	5,789	97901066
MD.12.1.4	2	1.2	1.5m	SCHUKO	11,536	97901084
MD.15.1.4	2	1.5	1.5m	SCHUKO	12,170	97901086

Model	Nº pumps	P2 kW	Cable	Plug	415V 3Ph 50Hz	
					£	Product Code
M.12.3.4	1	1.2	1.5m	-	5,280	97901065
M.15.3.4	1	1.5	1.5m	-	5,789	97901067
M.22.3.4	1	2.2	1.5m	-	6,180	97901068
M.24.3.2	1	2.4	1.5m	-	6,572	97901070
M.32.3.2	1	3.2	1.5m	-	7,236	97901072
M.38.3.2	1	3.8	1.5m	-	7,744	97901074
MD.12.3.4	2	1.2	1.5m	-	11,291	97901085
MD.15.3.4	2	1.5	1.5m	-	11,927	97901087
MD.22.3.4	2	2.2	1.5m	-	12,953	97901088
MD.24.3.2	2	2.4	1.5m	-	13,588	97901090
MD.32.3.2	2	3.2	1.5m	-	14,175	97901092
MD.38.3.2	2	3.8	1.5m	-	16,129	97901094

ELECTRIC MOTOR

230V 1ph 50Hz DOL

400V 3ph 50Hz DOL

IP68 Enclosure

Class F insulation

CABLES

All models with 4 m cable between motor and controller

All models with 1.5 m cable between controller and plug



ACCESSORIES FOR MULTILIFT WASTE WATER AND SEWAGE LIFTING STATIONS

		£	Product Code
Diaphragm pump 2" for M/MD	Rp 1 1/2"	426	96003721
Isolating valve, PVC	DN 100	559	96615831
Isolating valve, epoxy-coated cast iron	DN 80	317	96002011
Isolating valve, brass	Rp 1 1/4"	73	00ID0918
Flexible connection with clamps for additional connections and inlets	DN 32	35	91071645
Socket seal for additional inlet	DN 50	66	98079669
Socket seal for additional inlet	DN 100	60	97726942
Socket seal for additional inlet (vertical inlet on top)	DN 150	169	96636544
Venting valve (with filter)		267	98059596

CATEGORY 3 - SUBMERSIBLE MIXERS

AMD - DIRECT DRIVEN SUBMERSIBLE MIXER WITH 4 POLES MOTOR



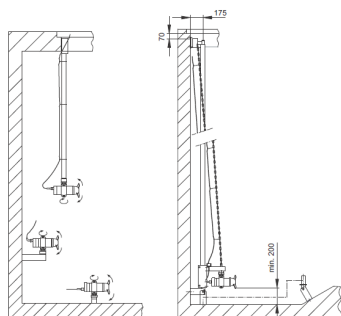
Model	Axial Thrust	Rated Power P1	3x400V 50Hz	
			£	Product Code
AMD.05.16.1450.T.5.0B.A	60N	0.56 kW	2,320	99056116
AMD.07.18.1430.T.5.0B.A	95N	0.76 kW	2,510	99018155

IP68 Class F insulation
Max installation depth: 20m
10m cable
Liq temperature range: 5-40°C

pH range: 4-10
Max visc: 500 mPa.s
Max dens: 1060kg/m3
Max sludge index: 125ml/g

ACCESSORIES FOR AMD SUBMERSIBLE MIXER

AMD



Item	Material	£	Product Code
Fixation bracket for suspended mounting	1.4401/316	552	95040132
Tube for suspended mounting, 2" thread, 3m	1.4401/316	1,428	95040131
Fixation bracket for wall mounting, 2" thread	1.4401/316	547	96115291
Fixation base for floor mounting, 2" thread	1.4401/316	430	96115292
Motor bracket for column profile mounting	1.4401/316	1,206	96115295
Column profile tube 60x60x3mm*	1.4301/304	155	96489420
Column profile tube 60x60x3mm*	1.4404/316L	291	96489421

*PN for 1m of column profile. When ordering, please state the required length (up to 6m).

CATEGORY 3 - LC 231 AND LC 241 LEVEL CONTROLLERS

LC 231 DIRECT ON LINE

Model	N° pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz 3x415V 50Hz	
					£	Product code
LC 231 1x 1-12 DOL 3x460 PI CE	1	1-12	P	x	803	99369644
LC 231 2x 1-9 DOL 3x460 PI CE	2	1-9	P	x	1,008	99369650



LC 241 DIRECT ON LINE

Model	N° pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz 3x415V 50Hz	
					£	Product code
LC 241 1x 1,9-6,3 DOL 1x230 PI OPT	1	1.9-6.3	P	No	1,833	99897056
LC 241 2x 1,9-6,3 DOL 1x230 PI OPT	2	1.9-6.3	P	No	2,077	99897059

Model	N° pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 0,8-2,7 DOL 3x230/400 PI OPT	1	0.8-2.7	P	x	1726	99897053
LC 241 1x 1,9-6,3 DOL 3x230/400 PI OPT	1	1.9-6.3	P	x	1853	99897055
LC 241 1x 5,7-12 DOL 3x230/400 PI OPT	1	5.7-12	P	x	1866	99897061
LC 241 1x 9-26 DOL 3x230/400 PI OPT	1	9.0-26	P	x	2206	99897065
LC 241 2x 0,8-2,7 DOL 3x230/400 PI OPT	2	0.8-2.7	P	x	2304	99897054
LC 241 2x 1,9-6,3 DOL 3x230/400 PI OPT	2	1.9-6.3	P	x	2315	99897058
LC 241 2x 5,7-12 DOL 3x230/400 PI OPT	2	5.7-12	P	x	2363	99897063
LC 241 2x 9-26 DOL 3x230/400 PI OPT	2	9.0-26	P	x	2631	99897066



CATEGORY 3 - LC 241 WASTEWATER CONTROLLERS

LC 241 WITH CURRENT TRANSFORMERS

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC 241 1x 1,9-6,3 DOL 1x230 PI OPT	1	1.9-6.3	P	x	1833	99897056
LC 241 2x 1,9-6,3 DOL 1x230 PI OPT	2	1.9-6.3	P	x	2077	99897059

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 0,8-2,7 DOL 3x230/400 PI OPT	1	0.8-2.7	P	x	1726	99897053
LC 241 1x 1,9-6,3 DOL 3x230/400 PI OPT	1	1.9-6.3	P	x	1853	99897055
LC 241 1x 5,7-12 DOL 3x230/400 PI OPT	1	5.7-12	P	x	1866	99897061
LC 241 1x 9-26 DOL 3x230/400 PI OPT	1	9.0-26	P	x	2206	99897065
LC 241 2x 0,8-2,7 DOL 3x230/400 PI OPT	2	0.8-2.7	P	x	2304	99897054
LC 241 2x 1,9-6,3 DOL 3x230/400 PI OPT	2	1.9-6.3	P	x	2315	99897058
LC 241 2x 5,7-12 DOL 3x230/400 PI OPT	2	5.7-12	P	x	2363	99897063
LC 241 2x 9-23 DOL 3x400 OPT	2	9.0-26	P	x	2631	99897066

LC 241 LEVEL CONTROLLERS WITH START/RUN CAPACITORS

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC 241 1x 1,9-6,3 DOL 30 150 1x230 PI OPT	1	1.9-6.3	P	30\150	2006	99897057
LC 241 1x 5,7-12 DOL 30 150 1x230 PI OPT	1	5.7-12	P	30\150	2024	99897062
LC 241 2x 1,9-6,3 DOL 30 150 1x230 PI OPT	2	1.9-6.3	P	30\150	2388	99897060
LC 241 2x 5,7-12 DOL 30 150 1x230 PI OPT	2	5.7-12	P	30\150	2631	99897064

LC 241 LEVEL CONTROLLERS WITH START/RUN CAPACITORS AND CURRENT TRANSFORMERS

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC 241 1x 1,9-6,3 DOL 30 150 1x230 PI OPT	1	1.9-6.3	P	30\150	1979	99877153
LC 241 1x 5,7-12 DOL 30 150 1x230 PI OPT	1	5.7-12	P	30\150	1996	99877171
LC 241 2x 1,9-6,3 DOL 30 150 1x230 PI OPT	2	1.9-6.3	P	30\150	2293	99877161
LC 241 2x 5,7-12 DOL 30 150 1x230 PI OPT	2	5.7-12	P	30\150	2358	99877180

LC 241 LEVEL CONTROLLERS WITH STAR/DELTA STARTING

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 10-30 SD 3x230/400 MI OPT	1	10-30	M	x	3050	99897073
LC 241 1x 16-44 SD 3x230/400 MI OPT	1	16-44	M	x	3342	99897075
LC 241 1x 26-65,5 SD 3x230/400 MI OPT	1	26-65	M	x	3850	99897077
LC 241 2x 10-30 SD 3x230/400 MI OPT	2	10-30	M	x	3732	99897074
LC 241 2x 16-44 SD 3x230/400 MI OPT	2	16-44	M	x	4403	99897076
LC 241 2x 26-65,5 SD 3x230/400 MI OPT	2	26-65	M	x	5535	99897078

LC 241 LEVEL CONTROLLERS WITH STAR/DELTA STARTING WITH CURRENT TRANSFORMERS

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 10-30 SD 3x230/400 MI OPT	1	10-30	M	x	2991	99877189
LC 241 1x 16-44 SD 3x230/400 MI OPT	1	16-44	M	x	3291	99877199
LC 241 1x 26-65,5 SD 3x230/400 MI OPT	1	26-65	M	x	3592	99877205
LC 241 2x 10-30 SD 3x230/400 MI OPT	2	10-30	M	x	3687	99877192
LC 241 2x 16-44 SD 3x230/400 MI OPT	2	16-44	M	x	4112	99877202
LC 241 2x 26-65,5 SD 3x230/400 MI OPT	2	26-65	M	x	4642	99877208



CATEGORY 3 - LC 241 WASTEWATER CONTROLLERS

LC 241 LEVEL CONTROLLERS WITH SOFT START

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 8-12 SST 3x230/400 MI OPT	1	8.0-12	M	x	2786	99897079
LC 241 1x 10-16 SST 3x230/400 MI OPT	1	10.0-16	M	x	2848	99897081
LC 241 1x 20-25 SST 3x230/400 MI OPT	1	20-25	M	x	2978	99897085
LC 241 1x 25-30 SST 3x230/400 MI OPT	1	25-30	M	x	3105	99897087
LC 241 1x 30-42 SST 3x230/400 MI OPT	1	30-42	M	x	3705	99897089
LC 241 1x 40-54 SST 3x230/400 MI OPT	1	40-54	M	x	4015	99897091
LC 241 1x 52-65 SST 3x230/400 MI OPT	1	52-60	M	x	4399	99897093
LC 241 1x 62-72 SST 3x230/400 MI OPT	1	62-72	M	x	4415	99897095
LC 241 2x 8-12 SST 3x230/400 MI OPT	2	8.0-12	M	x	3330	99897080
LC 241 2x 10-16 SST 3x230/400 MI OPT	2	10.0-16	M	x	3441	99897082
LC 241 2x 20-25 SST 3x230/400 MI OPT	2	20-25	M	x	3658	99897086
LC 241 2x 25-30 SST 3x230/400 MI OPT	2	25-30	M	x	4079	99897088
LC 241 2x 30-42 SST 3x230/400 MI OPT	2	30-42	M	x	5007	99897090
LC 241 2x 40-54 SST 3x230/400 MI OPT	2	40-54	M	x	5708	99897092
LC 241 2x 52-65 SST 3x230/400 MI OPT	2	52-60	M	x	6296	99897094
LC 241 2x 62-72 SST 3x230/400 MI OPT	2	62-72	M	x	6327	99897096

LC 241 LEVEL CONTROLLERS WITH SOFT START WITH CURRENT TRANSFORMER

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 8-12 SST 3x230/400 MI OPT	1	8-12	M	x	2784	99877211
LC 241 1x 10-16 SST 3x230/400 MI OPT	1	10.-16	M	x	2853	99877217
LC 241 1x 16-20 SST 3x230/400 MI OPT	1	16-20	M	x	2955	99877223
LC 241 1x 20-25 SST 3x230/400 MI OPT	1	20-25	M	x	2991	99877229
LC 241 1x 25-30 SST 3x230/400 MI OPT	1	25-30	M	x	3118	99877235
LC 241 1x 30-42 SST 3x230/400 MI OPT	1	30-42	M	x	3716	99877241
LC 241 1x 40-54 SST 3x230/400 MI OPT	1	40-54	M	x	4089	99877247
LC 241 1x 52-65 SST 3x230/400 MI OPT	1	52-65	M	x	4650	99877257
LC 241 1x 62-72 SST 3x230/400 MI OPT	1	62-72	M	x	4666	99877263
LC 241 2x 8-12 SST 3x230/400 MI OPT	2	8-12	M	x	3370	99877214
LC 241 2x 10-16 SST 3x230/400 MI OPT	2	10.-16	M	x	3510	99877220
LC 241 2x 16-20 SST 3x230/400 MI OPT	2	16-20	M	x	3712	99877226
LC 241 2x 20-25 SST 3x230/400 MI OPT	2	20-25	M	x	3728	99877232
LC 241 2x 25-30 SST 3x230/400 MI OPT	2	25-30	M	x	4147	99877238
LC 241 2x 30-42 SST 3x230/400 MI OPT	2	30-42	M	x	4984	99877244
LC 241 2x 40-54 SST 3x230/400 MI OPT	2	40-54	M	x	5747	99877254
LC 241 2x 52-65 SST 3x230/400 MI OPT	2	52-65	M	x	6336	99877260
LC 241 2x 62-72 SST 3x230/400 MI OPT	2	62-72	M	x	6366	99877266



CATEGORY 3 - LC 242 SP CONTROLLERS

LC242 DIRECT ON LINE WITHOUT CAPACITOR

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC242 1x 1.9-6.3DOL 1x230 PI OPT	1	1.9-6.3	P	x	1888	99897114

Suitable for SQE pumps up to 6.3 Amps

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC242 2x 1.9-6.3 DOL 1x230 PI OPT	2	1.9-6.3	P	x	2345	99897117

Suitable for 1.5kW and 2.2kW single phase SP pumps only

For 0.37kW to 0.75kW single phase SP pumps please select the direct on line single phase panels with one CSIR starter per pump - see page 20

LC242 WITH START AND RUN CAPACITORS

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC242 1x 1.9-6.3DOL 30 1501x230 PI OPT	1	1.9-6.3	P	30/150	POA	99897115
LC242 1x 5.7-12DOL 30 1501x230 PI OPT	1	5.7-12	P	30/150	2082	99897120
LC242 2x 1.9-6.3 30 150DOL 1x230 PI OPT	2	1.9-6.3	P	30/150	POA	99897118
LC242 2x 5.7-12 150DOL 1x230 PI OPT	2	5.7-12	P	30/150	POA	99897122

LC242 WITH CURRENT TRANSFORMERS

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC242 1x 0.8-2.7 DOL 3x400 PI OPT	1	0.8-2.7	P	x	1833	99877270
LC242 1x 1.9-6.3 DOL 3x400 PI OPT	1	1.9-6.3	P	x	1840	99877278
LC242 1x 5.7-12 DOL 3x400 PI OPT	1	5.7-12	P	x	1851	99877287
LC242 1x 9-26 DOL 3x400 PI OPT	1	9-26	P	x	2093	99877295
LC242 2x 0.8-2.7 DOL 3x400 PI OPT	2	0.8-2.7	P	x	2114	99877274
LC242 2x 1.9-6.3 DOL 3x400 PI OPT	2	1.9-6.3	P	x	2246	99877283
LC242 2x 3,2-12 DOL 3x400 PI OPT	2	5.7-12	P	x	2282	99877291
LC242 2x 9-23 DOL 3x400 PI OPT	2	9-26	P	x	2679	99877299

LC242 DIRECT ON LINE WITH CURRENT TRANSFORMERS AND IO241 MODULE

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC242 1x 0.8-2.7 DOL 3x400 PI OPT	1	0.8-2.7	P	x	2244	99877272
LC242 1x 1.9-6.3 DOL 3x400 PI OPT	1	1.9-6.3	P	x	2249	99877281
LC242 1x 5.7-12 DOL 3x400 PI OPT	1	5.7-12	P	x	2262	99877289
LC242 1x 9-26 DOL 3x400 PI OPT	1	9-26	P	x	2583	99877297
LC242 2x 0.8-2.7 DOL 3x400 PI OPT	2	0.8-2.7	P	x	2522	99877276
LC242 2x 1.9-6.3 DOL 3x400 PI OPT	2	1.9-6.3	P	x	2734	99877285
LC242 2x 5.7-12 DOL 3x400 PI OPT	2	5.7-12	P	x	2770	99877293
LC242 2x 9-26 DOL 3x400 PI OPT	2	9-26	P	x	2964	99877301



CATEGORY 3 - LC CONTROLLER OPTIONS

Level Controllers - Options

	£	Product code
Option Fault Lamp - One pump Panel	POA	99558129
Option Fault Lamp - Two pump Panel	POA	99558055
Option On/Off/Auto switch - One pump Panel	POA	99558128
Option On/Off/Auto switch - Two pump Panel	POA	99558053
Option IO241 - Input/output card	POA	99558058
Option Analogue EX-Barrier	POA	99558056
Option Digital EX-Barrier	POA	99558326
Option Electrode Relay	POA	99558057

How to Select a controller with options ?

LC 241 / 242 product code + option product code = final product

Please contact Grundfos for assistance



CATEGORY 3 - LC CONTROLLER ACCESSORIES**ANALOG LEVEL SENSORS**

	£	Product code
Analog Level sensor LH100 0-3m, 10m cable	951	98991643
Analog Level sensor LH100 0-5m, 10m cable	951	98991645
Analog Level sensor LH100 0-5m, 25m cable	1,319	98991649
Analog Level sensor LH100 0-5m, 25m cable EX	1,496	99113184
Analog Level sensor LH100 0-10m, 25m cable	1,319	98991652
Analog Level sensor LH100 0-10m, 50m cable	1,672	98991653
Analog Level sensor LH100 0-20m, 50m cable	1,672	99354047
Analog Level sensor LH300 0-2m, 10m cable	1,805	99245886
Analog Level sensor LH300 0-2m, 25m cable	2,157	99245887

Level Sensor Cable Hangers

	£	Product code
Cable hanger for LH100	27	98991655
Cable hanger for LH300	78	99357623
Weight 300g for LH100	91	99287745

Level Sensor Float Switches

	£	Product code
Float switch with 10m cable	209	96003332
Float switch with 20m cable	280	96003695
Float switch with 30m cable	353	91073205
Float switch with 10m cable incl. mounting bracket - set of 2 pcs	527	62500013
Float switch with 10m cable incl. mounting bracket - set of 3 pcs	841	62500014
Float switch with 10m cable incl. mounting bracket - set of 4 pcs	1,060	62500015
Weight 300g for cable stabilizing	80	96003337
"Float switch" light, LED	POA	99477181

Alarm signalling

	£	Product code
Signal lamp 1x230VAC for outdoor mounting	524	62500020
Audible alarm 100dB	POA	99124311
Combi alarm with light and audible	279	97914944

Mains Isolators

	£	Product code
External main switch for supply cable 25A	115	96002511
External main switch for supply cable 40A	194	96002512
External main switch for supply cable 80A	279	96002513

External Communication

	£	Product code
CIM 200 Modbus	320	96824796
CIM 260 Modbus 2G/3G/4G (EU)	697	99439302
CIM 280 Grundfos iSOLUTION Cloud (EU)	697	99439724
CIM 500 Ethernet (CIM 500 Ethernet, PROFINET, Modbus TCP, BACnet IP, GRM IP)	691	98301408
Antenna 2G/3G/4G ø111mmx46mm, 1.5m cable	152	99518079
Antenna 2G/3G/4G ø138mmx55mm, 1.5m cable, vandal proof	231	99229807
Antenna 2G/3G/4G Marina type, 435mm high, 10m cable	POA	99387500
Backup battery for CIM 260/280	51	99499908

Converter boxes

	£	Product code
Airbells converter box	315	96924062
Electrodes converter box	POA	99558057

EX Barriers

	£	Product code
External Ex-barrier for digital sensors (LC-EX4)	1409	99621732
External Ex-barrier for analogue sensors	1503	99621731

Communication Cables And Small Accessories

	£	Product code
Cable, GENI 420MM	38	99670249
Cable, GENI 550MM	40	99670253
Cable, GENI 680MM	41	99670254
Power supply,	103	99670255
Current transformer, CT	86	99670257
M20 split cable gland kit	31	99587021
M25 metal cable gland for 16-21mm cable	40	99587019

CATEGORY 3 - DOCUMENTATION AND TESTING

DOCUMENTATION

All pumps will be supplied with one English language version of the appropriate Installation and Operating. Instructions which includes a CE Declaration of Conformity as well as electrical, safety and maintenance information. This copy will be included within the product packaging and further copies are available upon request.

Product Code £ NET

CERTIFICATES & TESTING FOR SPA/SP PUMPS UP to 132 kW

SALES OFFICE GENERATED CERTIFICATES

Letter of conformity (Certificate of Compliance with the Order 2.1 - Non specific inspection and testing)	GBLOC001	FOC
Typical Test Certificate (Test Report - Non specific inspection and testing 2.2)	GBTTC001	70

PRODUCTION GENERATED CERTIFICATES (EN 10204)

Letter of conformity (Certificate of Compliance with the Order EN 10204 2.1 Non specific inspection and testing)	96553738	POA
Typical Test Certificate (Test report EN 10204 2.2 - Non specific inspection and testing)	96643421	POA
Standard test (5 point performance test)	96643425	POA
Witness test (Inspection Certificate - Lloyds Register of Shipping)	96507898	POA
Witness test (Inspection Certificate - Det Norske Veritas)	96507899	POA
Witness test (Inspection Certificate - other listed bodies)	Various see FPV	POA

CERTIFICATES & TESTING FOR SP270-G SP300-G SP360-G PUMPS

For all EN10204 requirements please consult Sales office regarding availability and price

TEST REPORTS FOR GEF SEWAGE AND WASTE WATER SUBMERSIBLES

Performance Test report for pump with standard impeller to ISO 9906 Grade 1 (1 point at Best Efficiency)	POA
Performance Test report for pump with standard impeller to ISO 9906 Grade 1 (3 point performance test)	POA
Hydrostatic Pressure Test (For Installation Versions 3 & 6)	POA
Electric Motor Test	POA
Painting Type Test	POA
Material Specification	POA

REPORTS ARE FOR SPECIFIED PUMPS IN SPECIFIED ORDER WITH SERIAL NUMBERS

Witness Test Frame Sizes 34 - 42	POA
Witness Test Frame Sizes 50 - 54	POA
Witness Test Frame Sizes 58 - 62	POA
Witness Test Frame Sizes 66 - 70	POA
Witness Test Frame Sizes 72 - 78	POA

CERTIFICATES & TESTING FOR SE(SE1/SEV),SL(SL1/SLV),DP,EF,SEG

SALES OFFICE GENERATED CERTIFICATES (NOT COVERED BY EN10204)

PER PUMP

Letter of conformity (Certificate of Compliance with the Order 2.1 - Non specific inspection and testing)	GBLOC001	FOC
Typical Test Certificate (Test Report - Non specific inspection and testing 2.2)	GBTTC001	70

PRODUCTION GENERATED CERTIFICATES (EN 10204) --THESE ARE ALL TO BE INCLUDED IN THE PUMP PRODUCT CODE AND BOM

Letter of conformity (Certificate of Compliance with the Order EN 10204 2.1 Non specific inspection and testing)	96507895	POA
Typical Test Certificate (Test report EN 10204 2.2 - Non specific inspection and testing)	96507896	POA
Inspection Certificate (EN 10204 3.1)	96507897	POA
Witness test (Inspection Certificate - Lloyds Register of Shipping LRS)	96507898	POA
Witness test (Inspection Certificate - Det Norske Veritas DNV)	96507899	POA
Witness test (Inspection Certificate - Germanischer Lloyd GL)	96507920	POA
Witness test (Inspection Certificate - Bureau Veritas BV)	96507921	POA
Witness test (Inspection Certificate - Det Norske Veritas DNV)	96507922	POA
Witness test (Inspection Certificate - Various other listed bodies -- only undertaken by Group production)	Various see FPV	POA
Material specification report (verification of main component materials used)	96507928	POA
Special material report with EN10204 3.1certificate (verification of main component materials used from supplier)	96507929	POA

GENERAL NOTES

- NOTE 1 : All Production Test certificates except Lloyds & DNV are included in the packaging
 NOTE 2 : Test certificates cannot be produced retrospectively and must be arranged at time of order
 NOTE 3 : GEF Witness tests must be ordered together with pumps and agreed with the Sales Office prior to order placement
 NOTE 4 : Any other GEF Certificate or Test Report has to be agreed and confirmed with the Sales Office prior to order
 NOTE 5 : ALL PRICES ARE NETT PER PUMP AND NOT SUBJECT TO ANY FURTHER DISCOUNT

Notes

Notes

CONDITIONS OF SALE AND SERVICE

The Customer's attention is particularly drawn to the provisions of condition 13 (Warranty and Limitation of Liability)

1. INTERPRETATION

- 1.1 The definitions and rules of interpretation in this condition apply in these Conditions.

Agreement: the contract between Grundfos and the Customer for the supply of Equipment and/or Services in accordance with the Order and these Conditions
Business Day: a day other than a Saturday, Sunday or bank or public holiday in England when banks in London are open for non-automated business.

CDM Regulations: the Construction (Design and Management) Regulations 2015
Conditions: these terms and conditions as amended from time to time in accordance with condition 19.

Customer: the person, firm or company who purchases Equipment and/or Services from Grundfos.

Data Protection Legislation: all legislation and regulatory requirements in force from time to time relating to the use of personal data and the privacy of electronic communications, including, without limitation (i) any data protection legislation from time to time in force in the UK including the Data Protection Act 2018 or any successor legislation, as well as (ii) the General Data Protection Regulation (EU) 2016/679 and any other directly applicable European Union regulation relating to data protection and privacy (for so long as and to the extent that the law of the European Union has legal effect in the UK).

Delivery Location: the location set out in the Order for delivery of the Equipment and/or Services or such other location as the parties may agree.

Equipment: all equipment, materials, goods and/or products, or any part or parts thereof, supplied by Grundfos to the Customer under this Agreement or used by Grundfos or its subcontractors in the supply of the Services.

Equipment Specification: any specification for the Equipment, including any relevant plans or drawings, that is agreed in writing by the Customer and Grundfos.

Event of Default: any occurrence of the events set out in condition 17.1 or 17.2.

Force Majeure Event: acts, events, omissions or accidents beyond its reasonable control, including (without limitation) strikes, lock-outs or other industrial disputes (whether involving any supplier, contractor or agent of Grundfos or any other party beyond its reasonable control), failure of a utility service or transport network, act of God, war or threat of war, sabotage, riot, civil commotion, malicious damage, compliance with any law or governmental order, rule, regulation or direction, import or export embargoes, accident, breakdown of plant or machinery, fire, flood, storm or default of suppliers or subcontractors, difficulties in obtaining raw materials, labour, fuel, parts or machinery.

Grundfos: Grundfos Pumps Limited (Company No: 00805960) whose registered office is at Grovebury Road, Leighton Buzzard, Bedfordshire LU7 4TL.

Health and Safety File: the health and safety file required by the CDM Regulations.

In-put Material: all documents, information, tools and materials of the Customer required by Grundfos for the proper provision of the Services.

Intellectual Property Rights: patents, rights to inventions, copyright and related rights, trade marks, business names and domain names, rights in get-up, goodwill and the right to sue for passing off, rights in designs, database rights, rights to use, and protect the confidentiality of, confidential information (including know-how), and all other intellectual property rights, in each case whether registered or unregistered and including all applications and rights to apply for and be granted, renewals or extensions of, and rights to claim priority from, such rights and all similar or equivalent rights or forms of protection which subsist or will subsist now or in the future in any part of the world.

Maintenance Schedule: the maintenance schedule attached to the Order setting out the Services to be supplied by Grundfos to the Customer.

Order: the service support agreement or site visit request form in each case on Grundfos' standard terms (whichever is applicable) including any schedules attached to the service support agreement or site visit request form.

Payment Schedule: the payment schedule attached to the Order setting out the charges applicable for the provision of the Services by Grundfos to the Customer.

Premium Service: the service package in accordance with Grundfos' terms as set out in the Agreement.

Quotation: a written quotation issued by Grundfos.

Services: the services to be provided by Grundfos under this Agreement as set out in the Order or site visit request form together with any other services which Grundfos provides, or agrees to provide, to the Customer.

Site visit request form: Grundfos' Site Visit and Commissioning Request Form, or the equivalent internet log, which the Customer completes.

Time and Materials Rate: the rates set out in the Order.

Warranty: (Subject to condition 5.5) the warranty provided by Grundfos in respect of the Services as set out in condition 8.4 and Equipment as set out in condition 5.1 of these Conditions (as applicable).

Warranty Period: for product codes UPS2, UPS3, ALPHA1, ALPHA2, ALPHA3 and SCALIA2 the warranty period shall be 5 years from the date of the manufacture and in all other cases the warranty period shall be 24 months from installation or 30 months from the date of manufacture (whichever expires soonest).

- 1.2 Headings in these conditions shall not affect their interpretation.

- 1.3 A person includes a natural person, corporate or unincorporated body (whether or not having separate legal personality).

- 1.4 The schedules and annexes form part of this Agreement.

- 1.5 A reference to writing or written includes fax and email and electronic chat messages.

- 1.6 Any obligation in this Agreement on a person not to do something includes, without limitation, an obligation not to agree, allow, permit or acquiesce in that thing being done.

- 1.7 References to schedules and annexes are to the schedules and annexes of the Order.

- 1.8 A reference to a statute or statutory provision is a reference to it as amended or re-enacted. A reference to a statutory provision includes all subordinate legislation made under that statute or statutory provision.

2. Basis of Agreement

- 2.1 The Order constitutes an offer by the Customer to purchase Equipment and/or Services in accordance with these Conditions.

- 2.2 The Order shall only be deemed to be accepted on the earlier of:

(a) an authorised representative of Grundfos issues written acceptance of the Order; or

(b) Grundfos delivers the Equipment and/or commences providing Services to the Customer in line with the Order, at which point and on which the date this Agreement shall come into existence.

- 2.3 Any samples, drawings, descriptive matter or advertising issued by Grundfos and any descriptions of the Equipment or illustrations or descriptions of the Services contained in Grundfos' catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Services and/or Equipment described in them.

No warranty or guarantee is given for their accuracy and they shall not form part of this Agreement or have any contractual force.

- 2.4 These Conditions shall:

(a) apply to and be incorporated into this Agreement;

(b) prevail over any other terms that the Customer seeks to impose or incorporate; and

(c) prevail over any terms or conditions implied by law, trade custom, practice or course of dealing between Grundfos, the Customer or otherwise.

- 2.5 These Conditions are subject to any terms, conditions and/or provisions set out in the Order. In the event of any conflict between the terms of these Conditions and the terms of the Order, the provisions of the Order shall prevail, but any special terms granted in respect of any one Order are not applicable to any subsequent Order without the express consent in writing by Grundfos.

- 2.6 Quotations shall only be valid if issued in writing.

- 2.7 Any Quotations are given on the basis that no Agreement shall come into existence except in accordance with condition 2.2. Any Quotation is valid for a period of 30 days from its date (unless otherwise agreed by Grundfos), provided that Grundfos has not previously withdrawn it.

- 2.8 All of these Conditions shall apply to the supply of both Equipment and Services except where application to one or the other is specified.

- 2.9 Any special terms agreed to by Grundfos for any Order shall not apply to any subsequent Order without the express agreement of an authorised representative of Grundfos.

- 2.10 The Customer is responsible for ensuring the accuracy of the terms of the Order and for providing to Grundfos in good time any necessary information required by Grundfos to enable Grundfos to perform its obligations under the Agreement.

- 2.11 Grundfos' minimum order value is £55.00. Orders between £55.00 and £335 for pumps or £130 for Category 4 items will be subject to a £37 handling fee.

3. Equipment

- 3.1 The Equipment is described in Grundfos' catalogues as modified in any Equipment Specification.

- 3.2 Unless confirmed in writing by Grundfos, Grundfos makes no representation as to the suitability of the Equipment for the Customer's particular purpose. The Customer will be responsible for ensuring that the Equipment is suitable for its particular purpose and Grundfos shall have no liability to the Customer if the Equipment is not suitable for the Customer's particular purpose (so far as legally possible).

- 3.3 Grundfos (and/or its subcontractors, suppliers or agents) reserves the right to:

(a) change the design, construction or composition of the Equipment or the materials or equipment used in the Equipment as it shall think fit; and
(b) amend the Equipment Specification of the Equipment if required by any applicable statutory requirements, and shall, in any case, notify the Customer of any such changes (if such changes are effected after this Agreement has come into existence but before the Equipment and/or Services have been fully performed).

- 3.4 Samples of Equipment are available for inspection at Grundfos' offices. The samples are ex-stock at the time of viewing and are without guarantee as to colour or dimensions at the time of delivery. The viewing of a sample does not create a sale by sample.

4. Delivery of Equipment

- 4.1 Grundfos shall deliver the Equipment to the Delivery Location.

- 4.2 Delivery of the Equipment shall be completed on:

(a) the completion of unloading of the Equipment at the Delivery Location or (in the absence of any specified Delivery Location by the Customer) upon Grundfos informing the Customer that the Equipment is ready; or

(b) (if the Customer or its agents and/or representatives elect to unload the Equipment themselves) upon Grundfos placing the Equipment at the disposal of the Customer, its agents or representatives at the agreed point.

- 4.3 Grundfos' obligation under condition 4.1 is limited to delivering the Equipment only as near to the Delivery Location as a safe hard road permits. The Customer is to provide to Grundfos, free of charge, reasonable assistance with unloading (unless the Customer elects to unload the Equipment itself).

- 4.4 Any dates quoted for delivery of the Equipment are approximate only, and the time of delivery is not of the essence. Grundfos shall not be liable for any delay (or any additional costs arising out of the delay) in delivery of the Equipment that is caused by a Force Majeure Event or the Customer's failure to provide Grundfos with adequate delivery instructions or any other instructions that are relevant to the supply of the Equipment.

- 4.5 The Equipment may be delivered in advance of the quoted delivery date upon giving reasonable notice to the Customer.

- 4.6 If the Customer fails to take delivery of the Equipment or fails to give Grundfos adequate delivery instructions at the time stated for delivery (otherwise than by reason of Grundfos' sole fault) then, without prejudice to any other right or remedy available to Grundfos:

(a) delivery of the Equipment shall be deemed to have been completed at 9.00am on the next Business Day following the day on which Grundfos notified the Customer that the Equipment was ready; and

(b) Grundfos may:

(i) Charge a re-delivery fee if delivery is rearranged by Grundfos and the Customer;

(ii) store the Equipment until actual delivery takes place, and charge the Customer for all related costs and expenses (including insurance) of such storage;

(iii) apply Grundfos' returns policy as set out in condition 6; or

(iv) sell the Equipment at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) charge the Customer for any shortfall below the price payable by the Customer for the Equipment and Services (as applicable) under this Agreement.

- 4.7 If the parties have agreed on express delivery, the dates quoted for such delivery and agreed delivery dates are approximate only as delivery may vary due to factors not within Grundfos' reasonable control, e.g. leisurely or delayed customs clearance or other import or export obstacles. The parties agree that time of delivery is not of the essence and that Grundfos shall not be liable for any delay (or any additional costs arising out of the delay) in delivery caused by such events.

- 4.8 Grundfos may deliver the Equipment by instalments.

- 4.9 If Equipment is not received by the customer within 7 days of notification of dispatch by Grundfos or if it is received in a damaged condition or the quantity received differs from the quantity advised by Grundfos the Customer shall notify Grundfos in writing. If such written notice is not received by Grundfos within 10 days of the date of Grundfos' dispatch notification, Grundfos will not be liable in respect of any loss or damaged suffered.

- 4.10 If a proof of delivery is required a £10 handling fee will apply.

- 4.11 Proof of delivery shall only be retained by Grundfos for 3 months following delivery. After 3 months it shall be assumed by both parties that delivery successfully took place unless there is evidence to the contrary.

- 4.12 A £20 handling fee will apply per order to all orders for spares, pump components, spares kits and ancillary items such as flanges, unions etc.

5. **Quality of Equipment**
- 5.1 For the duration of the Warranty Period, Grundfos warrants that the Equipment shall:
- (a) (subject to conditions 5.3 and 5.4) conform in all material respects with the Equipment Specification; and
- (b) be free from defects in design, material and workmanship.
- 5.2 Subject to condition 5.3, if:
- (a) the Customer gives notice in writing during the Warranty Period within 14 days of discovery that some or all of the Equipment does not comply with the Warranty set out in condition 5.1;
- (b) Grundfos is given a reasonable opportunity to examine such Equipment; and
- (c) the Customer (if reasonably asked to do so by Grundfos) returns such Equipment to Grundfos (at Grundfos' cost), then Grundfos shall, at its option, repair or replace the defective Equipment, or refund the price of the defective Equipment in full. Repairs shall only be carried out between 8am and 5pm on Business Days agreed between Grundfos and Customer.
- 5.3 Grundfos shall not be liable for the Equipment's failure to comply with the Warranty if:
- (a) the Customer makes any further use of such Equipment after giving a notice in accordance with condition 5.2 unless otherwise approved by Grundfos (such approval not to be withheld unreasonably);
- (b) the defect arises because the Customer failed to follow Grundfos' or manufacturer's oral or written instructions as to the storage, installation, commissioning, use or maintenance of the Equipment or (if there are none) good trade practice;
- (c) the defect arises as a result of Grundfos following any drawing, design supplied by the Customer or the Equipment Specification;
- (d) the Customer alters, dismantles or repairs such Equipment without the written consent of Grundfos;
- (e) the defect arises as a result of fair wear and tear, wilful damage, negligence, or abnormal working conditions; or
- (f) the Equipment differs from its description as a result of changes made to ensure they comply with applicable statutory or regulatory standards.
- 5.4 Except as provided in this condition 5, Grundfos shall have no liability to the Customer in respect of the Equipment's failure to comply with the Warranty.
- 5.5 The terms of these Conditions shall apply to any repaired or replacement Equipment supplied by Grundfos under condition 5.2 but for the avoidance of doubt, the Warranty Period for any repaired or replaced Equipment shall be 12 months from the date of the repair.
6. **Return of Equipment**
- 6.1 Equipment may not be returned to Grundfos except by the prior written permission of an authorised representative of Grundfos. Contact grundfos-uk@sales.grundfos.com with the original purchase order number to arrange a return. Any such return shall be liable for any handling and restocking fees charged by Grundfos.
- 6.2 All Equipment requested to be returned to Grundfos will be subject to a minimum 35% restocking fee (subject to inspection). Equipment must be returned in its original packaging.
- 6.3 Equipment can only be returned within 6 months of the date of dispatch by Grundfos. All returns will be subject to inspection to ascertain age, condition and type.
- 6.4 Equipment returned without prior authorisation will be refused delivery by Grundfos.
- 6.5 The following Equipment cannot be returned for credit in any circumstance:
- (a) items with a net value of less than £125 (per item);
- (b) repair kits, power cable, engineered to order, third party sourced and obsolete items.
- 6.6 Any Equipment that has been in contact with hazardous liquids must be cleaned, sealed in appropriate packaging, clearly labelled and accompanied by a COSHH certification by the Customer. Any carrier used must be licensed to carry to transport the relevant hazardous liquids.
7. **Title and Risk**
- 7.1 The risk in the Equipment shall pass to the Customer on completion of delivery in accordance with condition 4.
- 7.2 Title to the Equipment shall not pass to the Customer until Grundfos receives payment in full (in cash or cleared funds) for the Equipment and any other equipment or goods that Grundfos has supplied to the Customer in respect of which payment has become due in which case title to the Equipment shall pass at the time of payment of all such sums.
- 7.3 Until title to the Equipment has passed to the Customer, the Customer shall:
- (a) hold the Equipment (or any receipts received from the Customer where the Customer has sold the Equipment) on a fiduciary basis as Grundfos' bailee;
- (b) store the Equipment separately from all other goods held by the Customer (where possible) so that they remain readily identifiable as Grundfos' property;
- (c) not remove, deface or obscure any identifying mark or packaging on or relating to the Equipment (unless reasonably required for the functioning use of the Equipment by the Customer);
- (d) maintain the Equipment in satisfactory condition and keep it insured against all risks for their full price on Grundfos' behalf from the date of delivery;
- (e) notify Grundfos immediately if the Customer becomes subject to any Event of Default;
- (f) give Grundfos such reasonable information relating to the Equipment as Grundfos may require from time to time;
- (g) give Grundfos at least 30 days' notice of its intention to move or relocate the Equipment to a new location. Grundfos may (at Grundfos' sole discretion) supervise the dismantling and removal of the Equipment, and inspect and reinstall the Equipment at the new location. Any supervision and work undertaken in respect of the relocation shall be charged at the prevailing Time and Material Rates and is payable by the Customer in accordance with condition 11; and
- (h) give Grundfos at least 14 days' notice of its intention to take any steps to appoint an administrator.
- 7.4 The Customer may incorporate the Equipment into or with any other goods provided that any new goods incorporating the Equipment shall become the sole and exclusive property of Grundfos and shall be separately stored and marked so as to be identifiable as being manufactured by or containing Equipment belonging to Grundfos.
- 7.5 Subject to condition 7.7, the Customer may resell the Equipment in the ordinary course of its business (but not otherwise) before Grundfos receives payment for the Equipment. However, if the Customer resells the Equipment before that time:
- (a) It does so as principal and not as Grundfos' agent;
- (b) Title to the Equipment shall pass from Grundfos to the Customer immediately before the time at which resale by the Customer occurs.
- 7.6 If before title to the Equipment passes to the Customer the Customer becomes subject to an Event of Default, then, without limiting any other right or remedy Grundfos may have, Grundfos may at any time:
- (a) the Customer's right to resell the Equipment or use it in the ordinary course of its business ceases immediately;
- (b) reasonably require the Customer to deliver up all Equipment in its possession; and
- (c) if the Customer fails to do so promptly, enter any premises of the Customer where the Equipment is stored in order to recover them; and
- (d) the Customer shall pay Grundfos' reasonable costs (including legal costs) for any recovery of the Equipment pursuant to condition 7.7(c).
8. **Supply of Services**
- 8.1 Grundfos shall provide the Services to the Customer in accordance with the Maintenance Schedule in all material respects and in accordance with the duration and timescales specified in the Order.
- 8.2 Grundfos shall use all reasonable endeavours to meet any performance dates for the Services specified in this Agreement, but any such dates shall be estimates only and time shall not be of the essence for the performance of the Services.
- 8.3 Grundfos shall have the right to make any changes to the Services which are necessary to comply with any applicable law or safety requirement, or which do not materially affect the nature or quality of the Services, and Grundfos shall notify the Customer in any such event. If Grundfos requests a change for any other reason, the Customer shall not unreasonably withhold or delay consent to it.
- 8.4 Grundfos warrants to the Customer that the Services will be provided using reasonable care and skill.
- 8.5 Grundfos shall use reasonable endeavours to observe all health and safety rules and regulations, and any other reasonable security requirements that apply at the Customer's premises and that have been communicated to it provided that it shall not be liable under this Agreement if, as a result of such observation, it is in breach of any of its obligations under this Agreement.
9. **Maintenance Service Times**
- 9.1 Services will be carried out during the working times as specified in the Maintenance Schedule.
- 9.2 Grundfos' standard daily fee rates for each individual person are calculated on the basis of an eight-hour day between 8.00am and 5.00pm on Business Days. Grundfos shall be entitled to charge for any Services undertaken outside of these hours at the Time and Materials Rate in effect at the relevant time.
- 9.3 Grundfos shall use reasonable endeavours to attend the Delivery Location, but if Grundfos is prevented by any reason outside his control or under the control of the Customer, from installing the Equipment or carrying out the Services at the time of the visit, it shall not constitute a material breach of this Agreement. If additional visits are required to the Delivery Location which are not accounted for in the Maintenance Schedule, Grundfos reserves the right to charge the Customer at the Time and Materials Rate for all additional time incurred.
10. **Customer's obligations**
- 10.1 The Customer shall:
- (a) ensure that the terms of the Order and the Equipment Specification are complete and accurate;
- (b) co-operate with Grundfos in all matters relating to this Agreement;
- (c) provide Grundfos, its employees, agents, consultants and subcontractors, with access to the Customer's premises, office accommodation and other facilities as reasonably required by Grundfos to provide the Services and/or deliver the Equipment;
- (d) prepare the Customer's premises (or the location where the Services are to be performed) for the supply of the Services and/or the Equipment;
- (e) provide adequate lighting, heating, power and ventilation as per Grundfos' reasonable requirements;
- (f) inform Grundfos' engineer or representative on each visit about any unsatisfactory running or irregular performance of the Equipment or equipment in respect of which the Services are undertaken.
- (g) ensure the Equipment is installed and kept in suitable premises and under suitable conditions, permit only trained and competent personnel to use it and follow any operating instructions as Grundfos may give from time to time;
- (h) provide a site visit request form to Grundfos in respect of any Services to be carried out by Grundfos, its agents, subcontractors, consultants or employees (as the case may be);
- (i) provide to Grundfos, in a timely manner, such In-put Material and other information as Grundfos may require and ensure that it is accurate in all material respects;
- (j) be responsible (at its own cost) for preparing and maintaining the relevant premises for the supply of the Services and/or Equipment, including identifying, monitoring, removing and disposing of any hazardous materials from its premises in accordance with all applicable laws, before and during the supply of the Services and/or Equipment at those premises;
- (k) inform Grundfos of all health and safety rules and regulations and any other reasonable security requirements that apply at the Customer's premises;
- (l) ensure that all In-Put Materials are in good working order and suitable for the purposes for which it is used in relation to the Services;
- (m) keep all Grundfos' materials, equipment, documents and other property (Grundfos Property) at the Customer's premises in safe custody at its own risk, keep all Grundfos Property in good condition until returned to Grundfos and not dispose of or use the Grundfos Property other than in accordance with Grundfos' written instructions and authorisations; and
- (n) obtain and maintain all necessary licences and consents and comply with all relevant legislation in relation to the Services, the installation of the Equipment and the use of In-put Material in all cases before the date on which the Services are to start.
- 10.2 If Grundfos' performance of any of its obligations in respect of the Services is prevented or delayed by any act or omission by the Customer (including its agents, subcontractors, consultants or employees) or failure by the Customer to perform any relevant obligation (Customer Default):
- (a) Grundfos shall without limiting its other rights or remedies have the right to suspend performance of the Services until the Customer remedies the Customer Default, and to rely on the Customer Default to relieve it from the performance of any of its obligations under this Agreement to the extent the Customer Default prevents or delays Grundfos' performance of any of its obligations;
- (b) Grundfos shall not be liable for any costs or losses sustained or incurred by the Customer arising directly or indirectly from Grundfos' failure or delay to perform any of its obligations as set out in this condition 10.2; and
- (c) the Customer shall reimburse Grundfos on written demand for any costs or losses sustained or incurred by Grundfos arising directly or indirectly from the Customer Default.
- 10.3 The Customer shall be liable to pay to Grundfos, on demand, all reasonable costs, charges or losses sustained or incurred by Grundfos (including, without limitation, any direct, indirect or consequential losses, loss of profit and loss of reputation, loss or damage to property and those arising from injury to or death of any person and loss of opportunity to deploy resources elsewhere) arising directly or indirectly from the Customer's fraud, negligence, failure to perform or delay in the performance of any of its obligations under this Agreement, subject to Grundfos confirming such costs, charges and losses to the Customer in writing.

10.4	The Customer shall not, without the prior written consent of Grundfos, at any time from the date of this Agreement to the expiry of 12 months after the last date of supply of the Services, solicit or entice away from Grundfos or employ (or attempt to employ) any person who is, or has been, engaged as an employee of Grundfos in the provision of the Services.	
11.	The CDM Regulations	
11.1	The Customer and Grundfos agree that the Customer is to be treated for the purposes of the CDM Regulations as the Client for the purposes of the CDM Regulations.	
11.2	The Customer agrees to ensure that the Works are carried out in accordance with the CDM Regulations.	
11.3	The Customer shall ensure that the Health and Safety File is maintained correctly and is available for inspection in accordance with the CDM Regulations.	
11.4	The Customer shall indemnify and keep the Owner indemnified against liability for any breach of the Customer's obligations under or in connection with this condition 11.	
12.	Charges and Payment	
12.1	The price for the Equipment shall be the price set out in the Order or, if no price is quoted, the price set out in the published price list of Grundfos (or Grundfos as the case may be) as at the date of delivery. Unless otherwise stated in the Order, the price of the Equipment is exclusive of all costs and charges of packaging, insurance, transport of the Equipment, which shall be paid by the Customer when it pays for the Equipment.	13.2
12.2	In the case of Product Services Service contracts, Installation Works and Engineered to Order products Grundfos reserves the right to request a deposit payment and/or payment milestones. The amount or means of calculating such payment shall be set out in the Quotation.	13.3
12.3	Grundfos reserves the right to require (at its option) a parent company guarantee or a personal guarantee from the directors of the Customer at any time in relation to all outstanding amounts due to Grundfos from the Customer from time to time.	13.4
12.4	The charges for Services shall be set out in the Payment Schedule.	13.5
12.5	Unless stated otherwise all prices are given on a DAP (delivered at place) basis.	
12.6	Grundfos reserves the right to: (a) increase its standard daily fee rates for the Services. Grundfos will give the Customer reasonable notice in writing of any such increase before the proposed date of the increase. If such increase is not acceptable to the Customer, it shall notify Grundfos in writing within 14 days of the date of Grundfos' notice and either of Grundfos or the Customer shall have the right, without limiting its other rights or remedies, to terminate this Agreement by giving 14 days' written notice (or any other reasonable notice period if performance of the Order is due to commence within 14 days) to Grundfos or Customer (as applicable); and (b) increase the price of the Equipment, by giving notice to the Customer at any time before delivery, to reflect any increase in the cost of the Equipment to Grundfos that is due to: (i) any factor beyond the control of Grundfos (including foreign exchange fluctuations, increases in taxes and customs' charges and duties, and increases in labour, materials, fuel and other manufacturing costs); (ii) any request by the Customer to change the delivery date(s), quantities or types of Equipment ordered, or the Equipment specification; or (iii) any delay caused by any instructions of the Customer in respect of the Equipment or failure of the Customer to give Grundfos adequate or accurate information or instructions in respect of the Equipment.	14.
12.7	In respect of Equipment, Grundfos shall invoice the Customer on or at any time after completion of delivery. If delivery of the Equipment is made in instalments, Grundfos may invoice the Customer in instalments. In respect of Services, Grundfos shall invoice the Customer in accordance with the Payment Schedule.	14.1
12.8	The Customer shall pay each invoice submitted by Grundfos: (a) within 30 days of the date of the invoice or in accordance with any other payment terms agreed by Grundfos in writing; and (b) in full and in cleared funds to a bank account nominated in writing by Grundfos, and time for payment shall be of the essence of this Agreement.	14.2
12.9	All amounts payable by the Customer under this Agreement are exclusive of amounts in respect of value added tax chargeable from time to time (VAT). The Customer shall pay any VAT which is chargeable on the supply of the Services and/or Equipment at the same time as payment is due for the supply of the Services and/or Equipment.	15.
12.10	Grundfos may in its sole discretion elect to provide a credit facility to the Customer but is not obliged to do so. Any credit facility offered will be on written terms agreed by Grundfos and the Customer.	15.1
12.11	Without prejudice to any other right or remedy that it may have, if the Customer fails to pay Grundfos on the due date, Grundfos may: (a) charge interest on such sum from the due date for payment at an annual rate equal to the set rate of interest provided under the Late Payment of Commercial Debt (Interest) Act 1998 as varied from time to time accruing on a daily basis and being compounded quarterly until payment is made, whether before or after any judgment and the Customer shall pay the interest immediately on demand; (b) charge compensation for late payment at a set rate depending on the size of the debt in accordance with the Late Payment of Commercial Debt Regulations 2002 (SI 2002 No 1674). The minimum charge applicable is £40.00, the maximum applicable is £100.00; (c) appropriate any payment by the Customer to any outstanding invoice as Grundfos may think fit not withstanding any purported appropriation by the Customer; and (d) suspend the provision of further Services until payment has been made in full.	15.2
12.12	The Customer shall pay all amounts due under this Agreement in full without any set-off, counterclaim, deduction or withholding except as required by law. Grundfos may, without limiting its other rights or remedies, set off any amount owing to it by the Customer against any amount payable by Grundfos to the Customer.	15.3
12.13	All sums payable to Grundfos under this Agreement shall become due immediately on its termination, despite any other provision. This condition 12.10 is without prejudice to any right to claim for interest under the law, or any such right under this Agreement.	15.4
12.14	Grundfos shall have a lien on all of the Customer's property in Grundfos' possession for all sums due at any time by the Customer to Grundfos subject to Grundfos giving not less than one month's written notice to the Customer. Grundfos shall be entitled to use, sell and dispose of any such property as agent for the Customer at the Customer's expense. The proceeds of such sale shall be applied towards the payment of monies due to Grundfos and Grundfos shall be discharged of any liability in relation to such property as a result of any sale.	16.
13.	Warranty and Limitation of Liability	16.1
13.1	<i>THE CUSTOMER'S ATTENTION IS SPECIFICALLY DRAWN TO THIS CONDITION</i> Nothing in these Conditions shall limit or exclude Grundfos' liability for: (a) death or personal injury caused by its negligence, or the negligence of its employees, agents or subcontractors; (b) fraud or fraudulent misrepresentation; (c) breach of the terms implied by section 2 of the Supply of Goods and Services Act 1982 (title and quiet possession);	16.2
	(d) breach of the terms implied by section 12 of the Sale of Goods Act 1979 (title and quiet possession); or (e) defective products under the Consumer Protection Act 1987.	16.3
	Subject to condition 13.1: (a) Grundfos shall under no circumstances whatsoever be liable to the Customer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit, turnover, data, business opportunity, anticipated savings, any indirect or consequential loss or any damage to goodwill arising under or in connection with this Agreement; (b) Grundfos' total liability to the Customer where the Customer has provided Grundfos with incorrect weights, dimensions, capacity performance or other information shall in no circumstances exceed the price of the Equipment supplied in accordance with such incorrect information; and (c) Grundfos' total liability to the Customer in respect of all other losses arising under or in connection with this Agreement, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, shall in no circumstances exceed £1million.	17.
	The terms implied by sections 13 to 15 of the Sale of Goods Act 1979 and the terms implied by sections 3 to 5 of the Supply of Goods and Services Act 1982 are, to the fullest extent permitted by law, excluded from this Agreement.	17.1
	This condition 13 shall survive termination of this Agreement.	
	The Customer shall indemnify Grundfos for any costs suffered by Grundfos for claims from any third party which arise by virtue of the Customer having resold the Equipment (unless such claim arises solely from Grundfos' negligence).	
	Confidentiality and Grundfos' property	
	Each party (receiving party) shall keep in strict confidence all technical or commercial know-how, specifications, inventions, processes or initiatives which are of a confidential nature and have been disclosed to the receiving party by the other party (disclosing party), its employees, agents or subcontractors, and any other confidential information concerning the disclosing party's business, its products and services which the receiving party may obtain. The receiving party shall only disclose such confidential information to those of its employees, agents and subcontractors who need to know it for the purpose of discharging the receiving party's obligations under this Agreement, and shall ensure that such employees, agents and subcontractors comply with the obligations set out in this condition as though they were a party to this Agreement. The receiving party may also disclose such of the disclosing party's confidential information as is required to be disclosed by law, any governmental or regulatory authority or by a court of competent jurisdiction. Neither party shall use the other's confidential information for any purpose other than to perform its obligations under this Agreement.	
	Intellectual Property Rights	
	(Subject to condition 15.2) all Intellectual Property Rights in or arising out of or in connection with: (a) the Equipment; (b) the Services; or (c) any manuals or documentation given by Grundfos to the Customer, shall be owned by Grundfos and nothing in this agreement shall transfer or assign any such Intellectual Property Rights to the Customer.	
	The Customer acknowledges that, in respect of any third party Intellectual Property Rights, the Customer's use of any such Intellectual Property Rights is conditional on Grundfos first obtaining a written licence from the relevant licensor on such terms as will entitle Grundfos to license such rights to the Customer.	
	The Customer grants to Grundfos a fully paid up, non-exclusive, royalty free, non-transferable licence to copy and modify any In-put Material for the purpose of providing the Services to the Customer.	
	The Customer shall indemnify Grundfos against all liabilities, costs, expenses, damages and losses (including any direct, indirect or consequential losses, loss of profit, loss of reputation and all interest, penalties and legal costs (on a full indemnity basis) and all other reasonable professional costs and expenses) suffered or incurred by Grundfos for actual or alleged infringement of a third party's Intellectual Property Rights arising out of or in connection with Grundfos' use of the Equipment Specification.	
	Data protection	
	Both parties will comply with all applicable requirements of the Data Protection Legislation. This condition 16 is in addition to, and does not relieve, remove or replace, a party's obligations under the Data Protection Legislation. In this condition 16 Applicable Laws means (for so long as and to the extent that they apply to the Supplier) the law of the European Union, the law of any member state of the European Union and/or Domestic UK Law; and Domestic UK Law means any Data Protection Legislation from time to time in force in the UK including the Data Protection Act 2018 or any successor legislation.	
	Without prejudice to the generality of condition 16.1 each party shall, in relation to any Personal Data processed in connection with the performance by that party of its obligations under the Agreement: (a) ensure that it has in place appropriate technical and organisational measures to protect against unauthorised or unlawful processing of Personal Data and against accidental loss or destruction of, or damage to, Personal Data, appropriate to the harm that might result from the unauthorised or unlawful processing or accidental loss, destruction or damage and the nature of the data to be protected, having regard to the state of technological development and the cost of implementing any measures (those measures may include, where appropriate, pseudonymising and encrypting Personal Data, ensuring confidentiality, integrity, availability and resilience of its systems and services, ensuring that availability of and access to Personal Data can be restored in a timely manner after an incident, and regularly assessing and evaluating the effectiveness of the technical and organisational measures adopted by it); (b) assist the other party, at the other party's cost, in responding to any request from a Data Subject and in ensuring compliance with its obligations under the Data Protection Legislation with respect to security, breach notifications, impact assessments and consultations with supervisory authorities or regulators; (c) notify the Customer without undue delay on becoming aware of a Personal Data breach; (d) at the written direction of the other party, delete or return Personal Data and copies thereof to the other party on termination of the agreement unless required by Applicable Law to store the Personal Data; and (e) maintain complete and accurate records and information to demonstrate its compliance with this condition 16.	
	Neither party consents to the other appointing any third-party processor of Personal Data under the Contract.	
	Termination	
	Without limiting its other rights or remedies, Grundfos or Customer may terminate this Agreement with immediate effect by giving written notice to the other party if: (a) the other party commits a material breach of its obligations under this Agreement and (if such breach is remediable) fails to remedy that breach within 7 days after receipt of written notice to do so;	

- (b) the other party takes any step or action in connection with its entering administration, provisional liquidation or any composition or arrangement with its creditors (other than in relation to a solvent restructuring), being wound up (whether voluntarily or by order of the court, unless for the purpose of a solvent restructuring), having a receiver appointed to any of its assets or ceasing to carry on business [or, if the step or action is taken in another jurisdiction, in connection with any analogous procedure in the relevant jurisdiction];
- (c) the other party suspends, or threatens to suspend, or ceases or threatens to cease to carry on all or a substantial part of its business; or
- (d) the other party's financial position deteriorates to such an extent that in the terminating party's opinion the other party's capability to adequately fulfil its obligations under the Contract has been placed in jeopardy.
- 17.2 Without limiting its other rights or remedies, Grundfos may terminate this Agreement with immediate effect by giving written notice to the Customer if:
- (a) there is a change of control of the Customer (as defined in section 574 of the Capital Allowances Act 2001);
- (b) the Customer is unable or unwilling to procure any guarantee required by Grundfos in accordance with condition 12.3; or
- (c) the Customer's financial position deteriorates to such an extent that in Grundfos' opinion the Customer's capability to adequately fulfil its obligations under the Contract has been placed in jeopardy or Customer fails to pay any amount due under this Agreement on the due date for payment.
- 17.3 Without limiting its other rights or remedies, Grundfos may suspend the supply of Services or all further deliveries of Equipment under this Agreement or any other agreement between the Customer and Grundfos if the Customer becomes subject to an Event of Default, or Grundfos reasonably believes that the Customer is about to become subject to any of them.
- 17.4 On termination of this Agreement for any reason:
- (a) the Customer shall immediately pay to Grundfos all of Grundfos' outstanding unpaid invoices and interest and, in respect of Services supplied but for which no invoice has yet been submitted, Grundfos shall submit an invoice, which shall be payable by the Customer immediately on receipt;
- (b) the Customer shall return all of Grundfos' materials and any deliverables which have not been fully paid for and which have not been installed as part of a bigger system. If the Customer fails to do so, then Grundfos may enter the Customer's premises and take possession of them. Until they have been returned, the Customer shall be solely responsible for their safe keeping and will not use them for any purpose not connected with this Agreement;
- (c) the accrued rights and remedies of the parties as at termination shall not be affected, including the right to claim damages in respect of any breach of this Agreement which existed at or before the date of termination or expiry;
- (d) conditions which expressly or by implication have effect after termination shall continue in full force and effect; and
- (e) Grundfos shall have a lien over all of the Customer's property in Grundfos' possession in respect of all sums due at any time from the Customer to Grundfos. Provided that Grundfos gives at least 14 days' prior written notice, Grundfos shall be entitled to use, sell and dispose of such property as agent for and at the expense of the Customer and apply the proceeds towards the payment of monies due and outstanding from the Customer to Grundfos. Thereafter, Grundfos shall be discharged of any liability in respect of the Customer's property.
- 17.5 On termination of this Agreement (however arising), any of these Conditions that expressly or by implication is intended to have effect after termination (or expiry) shall survive and continue in full force and effect.
18. **Force majeure**
Grundfos shall have no liability to the Customer under this Agreement if it is prevented from, or delayed in performing, its obligations under this Agreement or from carrying on its business by any Force Majeure Event.
19. **Variation**
Except as provided in these Conditions, no variation of this Agreement or these Conditions or of any of the documents referred to in them shall be valid unless it is in writing and signed by or on behalf of each of the authorised representatives of the parties.
20. **Waiver**
20.1 A waiver of any right under this Agreement is only effective if it is in writing and it applies only to the circumstances for which it is given. No failure or delay by a party in exercising any right or remedy under this Agreement or by law shall constitute a waiver of that (or any other) right or remedy, nor preclude or restrict its further exercise. No single or partial exercise of such right or remedy shall preclude or restrict the further exercise of that (or any other) right or remedy.
- 20.2 Unless specifically provided otherwise, rights arising under this Agreement are cumulative and do not exclude rights provided by law.
21. **Severance**
21.1 If any provision of this Agreement (or part of any provision) is found by any court or other authority of competent jurisdiction to be invalid, illegal or unenforceable, that provision or part-provision shall, to the extent required, be deemed not to form part of this Agreement, and the validity and enforceability of the other provisions of this Agreement shall not be affected.
- 21.2 If a provision of this Agreement (or part of any provision) is found illegal, invalid or unenforceable, the provision shall apply with the minimum modification necessary to make it legal, valid and enforceable.
22. **Entire agreement**
22.1 This Agreement constitutes the whole agreement between the parties and supersedes all previous agreements between the parties relating to its subject matter.
- 22.2 Each party acknowledges that, in entering into this Agreement, it has not relied on, and shall have no right or remedy in respect of, any statement, representation, assurance or warranty (whether made negligently or innocently) (other than for breach of contract), as expressly provided in this Agreement.
- 22.3 Nothing in this condition shall limit or exclude any liability for fraud.
23. **Assignment**
23.1 The Customer shall not, without the prior written consent of Grundfos, assign, transfer, charge, mortgage, subcontract or deal in any other manner with all or any of its rights or obligations under this Agreement.
- 23.2 Grundfos may at any time assign, transfer, charge, mortgage, subcontract or deal in any other manner with all or any of its rights under this Agreement and may subcontract or delegate in any manner any or all of its obligations under this Agreement to any third party or agent.
- 23.3 Each party that has rights under this Agreement is acting on its own behalf and not for the benefit of another person.
24. **No partnership or agency**
Nothing in this Agreement is intended to, or shall be deemed to, constitute a partnership or joint venture of any kind between any of the parties, nor constitute any party the agent of another party for any purpose. No party shall have authority to act as agent for, or to bind, the other party in any way.
25. **Rights of third parties**
A person who is not a party to this Agreement shall not have any rights under or in connection with it.
26. **Notices**
26.1 Any notice required to be given under this Agreement shall be in writing and shall be delivered personally, or sent by pre-paid first-class post, recorded delivery or by commercial courier to the registered office or the address stated in the Order (or as otherwise notified to the other party in writing).
- 26.2 Any notice shall be deemed to have been duly received if delivered personally, when left at the correct address or, if sent by pre-paid first-class post or recorded delivery, at 9.00am on the second Business Day after posting, or if delivered by commercial courier, on the date and at the time that the courier's delivery receipt is signed.
- 26.3 This condition 26 shall not apply to the service of any proceedings or other documents in any legal action.
- 26.4 A notice required to be given under this Agreement shall also be validly served if sent by e-mail.
27. **Governing law and jurisdiction**
27.1 This Agreement, and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims), shall be governed by, and construed in accordance with, the law of England and Wales.
- 27.2 The parties irrevocably agree that the courts of England and Wales shall have exclusive jurisdiction to settle any dispute or claim that arises out of, or in connection with, this Agreement or its subject matter or formation (including non-contractual disputes or claims).

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