

Grundfos Water, Waste Water Products

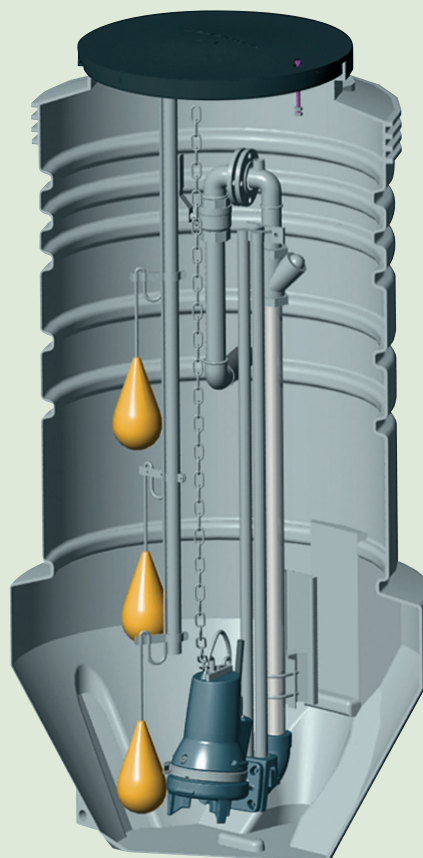
Price List February 2020

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)
£75.00 NET (PER ITEM)

BOXSPEED (PER ITEM) – from UK/European DC (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, CMB(E), Boosters, Scala
- JP, MQ and Tanks/Vessels (up to 500 Litre)
- 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 - £55.00 NET & ADDITIONAL ITEMS £20.00 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 - £45.00 NET & ADDITIONAL ITEMS £20.00 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.

SPARES STANDARD DELIVERY CHARGE

- A **£20.00 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.
- Items or multiple items from the same Purchase Order must exceed the total Net value of £150

Exclusions to Product Returns apply;

- **All Service kits, cable including attached to pump, assembled/3rd party/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.

SERVICE AND COMMISSIONING

Grundfos offers a wide range of service, repair and commissioning options. Please contact Service on 01525 850000 or email servicesupportuk@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 and 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	£	Product Code
SB WITH INTEGRATED SUCTION STRAINER				
SB 3-25 M	0.57	NO	336	97686698
SB 3-25 A	0.57	YES	349	97686699
SB 3-35 M	0.80	NO	362	97686700
SB 3-35 A	0.80	YES	375	97686701
SB 3-45 M	1.05	NO	399	97686704
SB 3-45 A	1.05	YES	414	97686705

SB WITH FLOATING SUCTION STRAINER

SB 3-35 MW	0.80	NO	463	97686702
SB 3-35 AW	0.80	YES	478	97686703
SB 3-45 MW	1.05	NO	487	97686706
SB 3-45 AW	1.05	YES	504	97686707

SBA WITH INTEGRATED SUCTION STRAINER

SBA 3-35 M	0.80	NO	448	97896285
SBA 3-35 A	0.80	YES	474	97896286
SBA 3-45 M	1.05	NO	472	97896289
SBA 3-45 A	1.05	YES	498	97896290

SBA WITH FLOATING SUCTION STRAINER

SBA 3-35 MW	0.80	NO	556	97896287
SBA 3-35 AW	0.80	YES	582	97896288
SBA 3-45 MW	1.05	NO	580	97896311
SBA 3-45 AW	1.05	YES	605	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

Model

A

M

AW

MW

ELECTRIC MOTOR

220-240V / 1ph / 50Hz

IP68 enclosure

All models with 15m cable with Schuko plug

Temperature range: 0-40°C



Model	P1 kW	Float switch	£	Product Code
SB HF				
SB HF 5-55	1.70	YES	522	99386066
SB HF 5-70	2.00	YES	592	99386067

ELECTRIC MOTOR

220-240V / 1ph / 50Hz

IP68 enclosure

All models with 20m cable with Schuko plug

Temperature range: 0-40°C

The **SB HF** requires an external control unit such as the **Pressure Manager PM2** - see page 6.



CATEGORY 3 - SQ/SQE 3" SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED ELECTRIC MOTOR

	£	Product Code		£	Product Code	P2 kW	Discharge
SQ 1-35	888	96510178	SQE 1-35	904	96510071	0.70	Rp 1"1/4
SQ 1-50	959	96510179	SQE 1-50	981	96510141	0.70	Rp 1"1/4
SQ 1-65	1,032	96510190	SQE 1-65	1,054	96510142	0.70	Rp 1"1/4
SQ 1-80	1,246	96510191	SQE 1-80	1,270	96510143	1.15	Rp 1"1/4
SQ 1-95	1,297	96510192	SQE 1-95	1,323	96510144	1.15	Rp 1"1/4
SQ 1-110	1,349	96510193	SQE 1-110	1,369	96510145	1.15	Rp 1"1/4
SQ 1-125	1,608	96510194	SQE 1-125	1,640	96510146	1.68	Rp 1"1/4
SQ 1-140	1,661	96510195	SQE 1-140	1,694	96510147	1.68	Rp 1"1/4
SQ 1-155	1,712	96510196	SQE 1-155	1,747	96510148	1.85	Rp 1"1/4
SQ 2-35	918	96510198	SQE 2-35	938	96510150	0.70	Rp 1"1/4
SQ 2-55	975	96510199	SQE 2-55	995	96510151	0.70	Rp 1"1/4
SQ 2-70	1,080	96510200	SQE 2-70	1,102	96510152	1.15	Rp 1"1/4
SQ 2-85	1,208	96510201	SQE 2-85	1,232	96510153	1.15	Rp 1"1/4
SQ 2-100	1,499	96510202	SQE 2-100	1,529	96510154	1.68	Rp 1"1/4
SQ 2-115	1,552	96510203	SQE 2-115	1,582	96510155	1.85	Rp 1"1/4
SQ 3-30	882	96510204	SQE 3-30	900	96510156	0.70	Rp 1"1/4
SQ 3-40	933	96510205	SQE 3-40	953	96510157	0.70	Rp 1"1/4
SQ 3-55	1,080	96510206	SQE 3-55	1,102	96510158	1.15	Rp 1"1/4
SQ 3-65	1,208	96510207	SQE 3-65	1,232	96510159	1.15	Rp 1"1/4
SQ 3-80	1,499	96510208	SQE 3-80	1,529	96510160	1.68	Rp 1"1/4
SQ 3-95	1,552	96510209	SQE 3-95	1,582	96510161	1.68	Rp 1"1/4
SQ 3-105	1,604	96510210	SQE 3-105	1,635	96510162	1.85	Rp 1"1/4
SQ 5-15	872	96510211	SQE 5-15	889	96510163	0.70	Rp 1" 1/2
SQ 5-25	892	96510212	SQE 5-25	927	96510164	0.70	Rp 1" 1/2
SQ 5-35	1,080	96510213	SQE 5-35	1,102	96510165	1.15	Rp 1" 1/2
SQ 5-50	1,208	96510214	SQE 5-50	1,232	96510166	1.15	Rp 1" 1/2
SQ 5-60	1,552	96510215	SQE 5-60	1,582	96510167	1.68	Rp 1" 1/2
SQ 5-70	1,604	96510217	SQE 5-70	1,635	96510168	1.85	Rp 1" 1/2
SQ 7-15	1,194	96510218	SQE 7-15	1,217	96510169	0.70	Rp 1" 1/2
SQ 7-30	1,297	96510219	SQE 7-30	1,323	96510170	1.15	Rp 1" 1/2
SQ 7-40	1,661	96510220	SQE 7-40	1,694	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

Model		Max load	£	Product Code
PM1 15	cut in 1.5 bar, cut out at no flow.	6A	177	96848670
PM1 22	cut in 2.2 bar, cut out at no flow.	6A	177	96848701
PM2	cut in adjustable between 1.5 and 5.5 bar, cut out at no flow.	10A	205	96848738

IP65

Max liquid temperature: 40°C

Max ambient temperature: 50°C

1x220-240V; 50-60Hz



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)	49	00ID8048
Flow sleeve Ø88mm in 304 stainless steel, strainer & horizontal supports	357	98148594

Submersible round drop cable

Drop cable 3 x 1.5mm ² per metre	12	00ID7946
Drop cable 3 x 2.5mm ² per metre	12	00ID7947
Drop cable 3 x 4.0mm ² per metre	12	00ID7948
Drop cable 3 x 6.0mm ² per metre	15	00RM4098

Extra joints supplied loose for fitting by others.

Heat shrink cable joint, 3 x 1.5-6.0mm ²	41	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)	387	96436753
CU300 Control Box (Commercial)	444	96422775
Pressure Sensor Kit 0-6 bar, 1/2" BSP connection and 2m screened cable	305	405168
SPP Potentiometer	248	625468
Level Sensor with 30m Cable	4,119	96591275
Level Sensor with 65m Cable	4,117	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	2,043	96524505
SQE 2-85 (CPP)	1.15	3x1.5mm ² 60m	2,532	96524506
SQE 3-65 (CPP)	1.15	3x1.5mm ² 40m	2,273	96524501
SQE 5-70 (CPP)	1.85	3x1.5mm ² 40m	2,474	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)	814	96524504

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



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	1,882	95027324	SQF 0.6-2 N	1,975	95027325	Rp 1"1/4	74mm
SQF 0.6-3	1,882	95027326	SQF 0.6-3 N	1,975	95027327	Rp 1"1/4	74mm
SQF 1-8	1,250	98842452	SQF 1-8 N	1,336	98842517	Rp 1"1/4	74mm
SQF 1.2-2	1,882	95027328	SQF 1.2-2 N	1,975	95027329	Rp 1"1/4	74mm
SQF 2.5-2	1,882	95027330	SQF 2.5-2 N	1,975	95027331	Rp 1"1/4	74mm
SQF 3A-10	1,812	95027336	SQF 3A-10 N	1,903	95027337	Rp 1"1/4	101mm
SQF 5A-3	1,812	95027338	SQF 5A-3 N	1,903	95027339	Rp 1"1/2	101mm
SQF 5A-7	1,812	95027342	SQF 5A-7 N	1,903	95027343	Rp 1"1/2	101mm
SQF 7-4	1,810	98979253	SQF 7-4 N	1,958	98994936	Rp 1"1/2	101mm
SQF 9-3	1,810	98978826	SQF 9-3 N	1,958	98994667	Rp 2"	101mm
SQF 14-3	1,810	98979255	SQF 14-3 N	1,958	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	102	97907253
IO 101 (115V) Switch box	Max 225 VDC	626	96481502
IO 101 (230V) Switch box	Max 225 VDC	626	96475074
CU 200 control unit	30-300 VDC	646	96625360

SOLAR MODULES

	£	Product Code
Solar module GF 270 (includes cables)	317	99299012
Array-to-controller wire kit (10m)	59	98257868
Array-to-array wire kit *	52	98257892

* 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	12	00ID7947
Drop cable 3 x 4.0mm per metre	12	00ID7948
Drop cable 3 x 6.0mm per metre	15	00RM4098

CABLE JOINTS

	£	Product Code
Extra joints supplied loose for fitting by others		
Heat shrink cable joint, 3 x 2.5-6.0mm ²	41	96021473

LEVEL SWITCH

	£	Product Code
Level switch for SQ Flex with 3m cable	90	16650

FLOW SLEEVES

	£	Product Code
For SQFlex 3" standard version (EN 1.4301/AISI 304)	379	98253259
For SQFlex 4" standard version (EN 1.4301/AISI 304)	325	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	732	08002E09	719	08001K09
SP1A-14	0.37	Rp 1"1/4	MS 402	814	08002E14	802	08001K14
SP1A-18	0.55	Rp 1"1/4	MS 402	884	08002E18	855	08001K18
SP1A-21	0.55	Rp 1"1/4	MS 402	920	08002E21	891	08001K21
SP1A-28	0.75	Rp 1"1/4	MS 402	1,031	08002E28	999	08001K28
SP1A-36	1.1	Rp 1"1/4	MS 402	1,921	08102E36	1,892	08101K36
SP1A-42	1.1	Rp 1"1/4	MS 402	2,130	08102E42	2,072	08101K42
SP1A-50	1.5	Rp 1"1/4	MS 402	2,462	08102E50	2,403	08101K50
SP1A-57	1.5	Rp 1"1/4	MS 402	2,670	08102E57	2,611	08101K57
SP2A-6	0.37	Rp 1"1/4	MS 402	712	09002E06	699	09001K06
SP2A-9	0.37	Rp 1"1/4	MS 402	748	09002E09	735	09001K09
SP2A-13	0.55	Rp 1"1/4	MS 402	840	09002E13	810	09001K13
SP2A-18	0.75	Rp 1"1/4	MS 402	925	09002E18	893	09001K18
SP2A-23	1.1	Rp 1"1/4	MS 402	1,038	09002E23	1,009	09001K23
SP2A-28	1.5	Rp 1"1/4	MS 402	1,191	09002E28	1,133	09001K28
SP2A-33	1.5	Rp 1"1/4	MS 402	1,252	09002E33	1,193	09001K33
SP2A-40	2.2	Rp 1"1/4	MS 4000 / 402	2,717	09102E40	2,216	09101K40
SP2A-48	2.2	Rp 1"1/4	MS 4000 / 402	2,958	09102E48	2,486	09101K48
SP2A-55	3	Rp 1"1/4	MS4000	-	-	3,003	09101K55
SP2A-65	3	Rp 1"1/4	MS4000	-	-	3,392	09101K65
SP2A-75	4	R 1"1/4	MS4000	-	-	6,730	09301K75
SP2A-90	4	R 1"1/4	MS4000	-	-	7,633	09301K90
SP3A-6	0.37	Rp 1"1/4	MS 402	796	10002E06	776	10001K06
SP3A-9	0.55	Rp 1"1/4	MS 402	876	10002E09	821	10001K09
SP3A-12	0.75	Rp 1"1/4	MS 402	942	10002E12	908	10001K12
SP3A-15	1.1	Rp 1"1/4	MS 402	1,039	10002E15	1,008	10001K15
SP3A-18	1.1	Rp 1"1/4	MS 402	1,079	10002E18	1,047	10001K18
SP3A-22	1.5	Rp 1"1/4	MS 402	1,232	10002E22	1,166	10001K22
SP3A-25	1.5	Rp 1"1/4	MS 402	1,271	10002E25	1,207	10001K25
SP3A-29	2.2	Rp 1"1/4	MS 4000 / 402	1,884	10002E29	1,371	10001K29
SP3A-33	2.2	Rp 1"1/4	MS 4000 / 402	1,992	10002E33	1,479	10001K33
SP3A-39	3	Rp 1"1/4	MS4000	-	-	2,734	10101K39
SP3A-45	3	Rp 1"1/4	MS4000	-	-	2,930	10101K45
SP3A-52	4	Rp 1"1/4	MS4000	-	-	3,285	10101K52
SP3A-60	4	Rp 1"1/4	MS4000	-	-	3,642	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	781	05002E04	768	05001K04
SP5A-6	0.55	Rp 1"1/2	MS 402	831	05002E06	799	05001K06
SP5A-8	0.75	Rp 1"1/2	MS 402	907	05002E08	873	05001K08
SP5A-12	1.1	Rp 1"1/2	MS 402	1,018	05002E12	986	05001K12
SP5A-17	1.5	Rp 1"1/2	MS 402	1,184	05002E17	1,118	05001K17
SP5A-21	2.2	Rp 1"1/2	MS 4000 / 402	1,797	05002E21	1,282	05001K21
SP5A-25	2.2	Rp 1"1/2	MS 4000 / 402	1,849	05002E25	1,336	05001K25
SP5A-33	3	Rp 1"1/2	MS4000	-	-	1,768	05001K33
SP5A-38	4	Rp 1"1/2	MS4000	-	-	3,239	05101K38
SP5A-44	4	Rp 1"1/2	MS4000	-	-	3,501	05101K44
SP5A-52	5.5	Rp 1"1/2	MS4000	-	-	4,374	05171K52
SP5A-60	5.5	Rp 1"1/2	MS4000	-	-	4,723	05171K60
SP5A-75 *	7.5	R 1"1/2	MS 6000	-	-	9,070	5301975
SP5A-85 *	7.5	R 1"1/2	MS 6000	-	-	9,842	5301985
SP7-3	0.55	Rp 1" 1/2	MS 402	747	98699154	747	98699178
SP7-5	0.75	Rp 1" 1/2	MS 402	888	98699155	888	98699169
SP7-8	1.1	Rp 1" 1/2	MS 402	1,080	98699156	1,080	98699179
SP7-12	1.5	Rp 1" 1/2	MS 402	1,341	98699157	1,341	98699180
SP7-17	2.2	Rp 1" 1/2	MS 4000 / 402	1,991	98699158	1,697	98699181
SP7-23	3	Rp 1" 1/2	MS 4000	-	-	2,328	98699182
SP7-27	4	Rp 1" 1/2	MS 4000	-	-	2,650	98699183
SP7-31	4	Rp 1" 1/2	MS 4000	-	-	2,846	98699184
SP7-37	5.5	Rp 1" 1/2	MS 4000	-	-	3,269	98699196
SP7-42	5.5	Rp 1" 1/2	MS 4000	-	-	3,515	98699197
SP7-51	7.5	Rp 1" 1/2	MS 4000	-	-	4,567	98699198
SP7-59	7.5	Rp 1" 1/2	MS 4000	-	-	7,482	98699199
SP7-71*	9.2	R 2"	MS 6000	-	-	9,147	98699211
SP7-86*	11	R 2"	MS 6000	-	-	10,717	98699212
SP7-100*	13	R 2"	MS 6000	-	-	12,192	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	934	98779736
SP9-5	1.1	Rp 2"	MS 402	1,054	98699025	1,054	98699053
SP9-8	1.5	Rp 2"	MS 402	1,339	98699026	1,339	98699054
SP9-10	2.2	Rp 2"	MS 4000 / 402	-	On request	1,598	98779739
SP9-11	2.2	Rp 2"	MS 4000 / 402	1,963	98699027	1,669	98699055
SP9-13	3	Rp 2"	MS 4000	-	-	2,146	98699056
SP9-16	3	Rp 2"	MS 4000	-	-	2,365	98699057
SP9-18	4	Rp 2"	MS 4000	-	-	2,638	98699058
SP9-21	4	Rp 2"	MS 4000	-	-	2,862	98699059
SP9-23	5.5	Rp 2"	MS 4000	-	-	3,371	98699060
SP9-25	5.5	Rp 2"	MS 4000	-	-	3,517	98699061
SP9-29	5.5	Rp 2"	MS 4000	-	-	3,808	98699062
SP9-32	7.5	Rp 2"	MS 4000	-	-	4,641	98699063
SP9-36	7.5	Rp 2"	MS 4000	-	-	4,946	98699064
SP9-40	7.5	Rp 2"	MS 4000	-	-	5,239	98699065
SP9-44	9.2	Rp 2"	MS 6000	-	-	6,019	98699072
SP9-48	9.2	Rp 2"	MS 6000	-	-	6,312	98699073
SP9-52	11	Rp 2"	MS 6000	-	-	6,675	98699074
SP9-56*	11	R 2"	MS 6000	-	-	9,327	98699075
SP9-60*	13	R 2"	MS 6000	-	-	9,857	98699076
SP9-65*	13	R 2"	MS 6000	-	-	10,384	98699077
SP9-69*	13	R 2"	MS 6000	-	-	10,807	98699078
SP9-75*	15	R 2"	MS 6000	-	-	11,579	98699079
SP9-79*	15	R 2"	MS 6000	-	-	12,030	98699080
SP9-86*	18.5	R 2"	MS 6000	-	-	13,147	98901304
SP9-93*	18.5	R 2"	MS 6000	-	-	13,887	98901305
SP11-3	0.75	Rp 2"	MS 402	879	98699297	879	98699312
SP11-5	1.10	Rp 2"	MS 402	1,084	98699298	1,084	98699313
SP11-7	1.50	Rp 2"	MS 402	1,306	98699299	1,306	98699314
SP11-11	2.20	Rp 2"	MS 4000 / 402	2,030	98699300	1,736	98699315
SP11-15	3.00	Rp 2"	MS 4000	-	-	2,391	98699316
SP11-20	4.00	Rp 2"	MS 4000	-	-	2,911	98699317
SP11-24	5.50	Rp 2"	MS 4000	-	-	3,357	98699318
SP11-27	5.50	Rp 2"	MS 4000	-	-	3,595	98900419
SP11-33	7.50	Rp 2"	MS 4000	-	-	4,682	98699320
SP11-37	7.50	Rp 2"	MS 4000	-	-	4,999	98901311
SP14-4	1.10	Rp 2"	MS 402	1,027	98699339	1,027	98699353
SP14-6	1.50	Rp 2"	MS 402	1,260	98699340	1,260	98699354
SP14-8	2.20	Rp 2"	MS 4000 / 402	1,831	98699341	1,538	98699355
SP14-11	3.00	Rp 2"	MS 4000	-	-	2,123	98699356
SP14-13	3.00	Rp 2"	MS 4000	-	-	2,298	98699357
SP14-15	4.00	Rp 2"	MS 4000	-	-	2,594	98699358
SP14-17	4.00	Rp 2"	MS 4000	-	-	2,761	98699359
SP14-20	5.50	Rp 2"	MS 4000	-	-	3,131	98699360
SP14-23	5.50	Rp 2"	MS 4000	-	-	3,383	98699361
SP14-27	7.50	Rp 2"	MS 4000	-	-	4,345	98711397
SP14-31	7.50	Rp 2"	MS 4000	-	-	4,682	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

P2				240V 1ph 50Hz		380-415V 3ph 50Hz	
Model	kW	Discharge	Motor	£	Product Code	£	Product Code
SP17-1	0.55	Rp 2"1/2	MS 402	1,027	12A02401	1,027	12A01901
SP17-2	1.1	Rp 2"1/2	MS 402	1,238	12A02402	1,238	12A01902
SP17-3	2.2	Rp 2"1/2	MS 4000 / 402	1,798	12A02403	1,528	12A01903
SP17-4	2.2	Rp 2"1/2	MS 4000 / 402	1,922	12A02404	1,651	12A01904
SP17-5	3.0	Rp 2"1/2	MS 4000	-	-	2,154	12A01905
SP17-6	4.0	Rp 2"1/2	MS 4000	-	-	2,446	12A01906
SP17-7	4.0	Rp 2"1/2	MS 4000	-	-	2,570	12A01907
SP17-8	5.5	Rp 2"1/2	MS 4000	-	-	2,853	12A01908
SP17-9	5.5	Rp 2"1/2	MS 4000	-	-	2,977	12A01909
SP17-10	5.5	Rp 2"1/2	MS 4000	-	-	3,103	12A01910
SP17-11	7.5	Rp 2"1/2	MS 6000	-	-	4,010	12A01911
SP17-12	7.5	Rp 2"1/2	MS 6000	-	-	4,127	12A01912
SP17-13	7.5	Rp 2"1/2	MS 6000	-	-	4,243	12A01913
SP17-14	9.2	Rp 2"1/2	MS 6000	-	-	4,618	12A01914
SP17-15	9.2	Rp 2"1/2	MS 6000	-	-	4,758	12A01915
SP17-16	9.2	Rp 2"1/2	MS 6000	-	-	4,869	12A01916
SP17-17	9.2	Rp 2"1/2	MS 6000	-	-	4,976	12A01917
SP17-18	11.0	Rp 2"1/2	MS 6000	-	-	5,148	12A01918
SP17-19	11.0	Rp 2"1/2	MS 6000	-	-	5,255	12A01919
SP17-20	11.0	Rp 2"1/2	MS 6000	-	-	5,389	12A01920
SP17-21	13.0	Rp 2"1/2	MS 6000	-	-	5,706	12A01921
SP17-22	13.0	Rp 2"1/2	MS 6000	-	-	5,885	12A01922
SP17-23	13.0	Rp 2"1/2	MS 6000	-	-	5,992	12A01923
SP17-24	13.0	Rp 2"1/2	MS 6000	-	-	6,101	12A01924
SP17-25	15.0	Rp 2"1/2	MS 6000	-	-	6,331	12A01925
SP17-26	15.0	Rp 2"1/2	MS 6000	-	-	6,495	12A01926
SP17-27	15.0	Rp 2"1/2	MS 6000	-	-	6,642	12A01927
SP17-28	18.5	Rp 2"1/2	MS 6000	-	-	7,134	12A01928
SP17-29	18.5	Rp 2"1/2	MS 6000	-	-	7,234	12A01929
SP17-30	18.5	Rp 2"1/2	MS 6000	-	-	7,336	12A01930
SP17-31	18.5	Rp 2"1/2	MS 6000	-	-	7,503	12A01931
SP17-32	18.5	Rp 2"1/2	MS 6000	-	-	7,639	12A01932
SP17-33	18.5	Rp 2"1/2	MS 6000	-	-	7,739	12A01933
SP17-34	22.0	Rp 2"1/2	MS 6000	-	-	7,999	12A01934
SP17-35	22.0	Rp 2"1/2	MS 6000	-	-	8,101	12A01935
SP17-36	22.0	Rp 2"1/2	MS 6000	-	-	8,202	12A01936
SP17-37	22.0	Rp 2"1/2	MS 6000	-	-	8,302	12A01937
SP17-38	22.0	Rp 2"1/2	MS 6000	-	-	8,404	12A01938
SP17-39	22.0	Rp 2"1/2	MS 6000	-	-	8,506	12A01939
SP17-40	22.0	Rp 2"1/2	MS 6000	-	-	8,606	12A01940
SP17-43 *	26.0	R 3"	MS 6000	-	-	10,428	12A41943
SP17-45 *	26.0	R 3"	MS 6000	-	-	10,588	12A41945
SP17-48 *	26.0	R 3"	MS 6000	-	-	10,829	12A41948
SP17-51 *	30.0	R 3"	MS 6000	-	-	12,487	12A41951
SP17-53 *	30.0	R 3"	MS 6000	-	-	12,855	12A41953
SP 17-55 *	37.0	R 3"	MMS 6	-	-	15,033	12A44355
SP 17-58 *	37.0	R 3"	MMS 6	-	-	15,589	12A44358
SP 17-60 *	37.0	R 3"	MMS 6	-	-	15,960	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.

February 2020

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	1,161	13A01901
SP 30-2	2.2	Rp 3"	MS 402	134	1,481	13A01902
SP 30-3	3	Rp 3"	MS 4000	134	1,943	13A01903
SP 30-4	4	Rp 3"	MS 4000	134	2,220	13A01904
SP 30-5	5.5	Rp 3"	MS 4000	134	2,580	13A01905
SP 30-6	5.5	Rp 3"	MS 4000	134	2,811	13A01906
SP 30-7	7.5	Rp 3"	MS 6000	142	3,680	13A01907
SP 30-8	7.5	Rp 3"	MS 6000	142	3,829	13A01908
SP 30-9	9.2	Rp 3"	MS 6000	142	4,174	13A01909
SP 30-10	9.2	Rp 3"	MS 6000	142	4,317	13A01910
SP 30-11	9.2	Rp 3"	MS 6000	142	4,462	13A01911
SP 30-12	11	Rp 3"	MS 6000	142	4,667	13A01912
SP 30-13	11	Rp 3"	MS 6000	142	4,901	13A01913
SP 30-14	13	Rp 3"	MS 6000	142	5,282	13A01914
SP 30-15	13	Rp 3"	MS 6000	142	5,425	13A01915
SP 30-16	15	Rp 3"	MS 6000	142	5,698	13A01916
SP 30-17	15	Rp 3"	MS 6000	142	5,839	13A01917
SP 30-18	18.5	Rp 3"	MS 6000	142	6,367	13A01918
SP 30-19	18.5	Rp 3"	MS 6000	142	6,512	13A01919
SP 30-20	18.5	Rp 3"	MS 6000	142	6,731	13A01920
SP 30-21	18.5	Rp 3"	MS 6000	142	7,019	13A01921
SP 30-22	22	Rp 3"	MS 6000	142	7,326	13A01922
SP 30-23	22	Rp 3"	MS 6000	142	7,469	13A01923
SP 30-24	22	Rp 3"	MS 6000	142	7,607	13A01924
SP 30-25	22	Rp 3"	MS 6000	142	7,748	13A01925
SP 30-26	22	Rp 3"	MS 6000	142	7,886	13A01926
SP 30-27	26	Rp 3"	MS 6000	142	8,400	13A01927
SP 30-28	26	Rp 3"	MS 6000	142	8,536	13A01928
SP 30-29	26	Rp 3"	MS 6000	142	8,673	13A01929
SP 30-30	26	Rp 3"	MS 6000	142	8,809	13A01930
SP 30-31	26	Rp 3"	MS 6000	142	8,943	13A01931
SP 30-32	30	Rp 3"	MS 6000	142	9,352	13A01932
SP 30-33	30	Rp 3"	MS 6000	142	9,487	13A01933
SP 30-34	30	Rp 3"	MS 6000	142	9,621	13A01934
SP 30-35	30	Rp 3"	MS 6000	142	9,755	13A01935
SP 30-39 *	37	R 3"	MMS 6	175	13,980	13A44339
SP 30-43 *	37	R 3"	MMS 6	175	14,624	13A44343
SP 30-46 *	45	R 3"	MMS 8000	192	17,458	13A54346
SP 30-49 *	45	R 3"	MMS 8000	192	18,263	13A54349
SP 30-52 *	55	R 3"	MMS 8000	192	19,810	13A54352
SP 30-54 *	55	R 3"	MMS 8000	192	20,428	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	Discharge	Motor	Max Ø [mm]	380-415V 3ph 50Hz	
	kW				£	Product Code
SP 46-1-B	1.1	Rp 4"	MS 402	146	1,579	15A019C1
SP 46-1	2.2	Rp 4"	MS 402	146	1,787	15A01901
SP 46-2-BB	2.2	Rp 4"	MS 402	146	1,820	15A019D2
SP 46-2	3	Rp 4"	MS 4000	146	2,215	15A01902
SP 46-3-C	4	Rp 4"	MS 4000	146	2,604	15A019F3
SP 46-3	5.5	Rp 4"	MS 4000	146	2,782	15A01903
SP 46-4-C	5.5	Rp 4"	MS 4000	146	2,911	15A019F4
SP 46-4	7.5	Rp 4"	MS 6000	148	3,810	15A01904
SP 46-5	7.5	Rp 4"	MS 6000	148	4,083	15A01905
SP 46-6	9.2	Rp 4"	MS 6000	148	4,560	15A01906
SP 46-7	11	Rp 4"	MS 6000	148	4,893	15A01907
SP 46-8-C	11	Rp 4"	MS 6000	148	5,064	15A019F8
SP 46-8	13	Rp 4"	MS 6000	148	5,256	15A01908
SP 46-9-C	13	Rp 4"	MS 6000	148	5,494	15A019F9
SP 46-9	15	Rp 4"	MS 6000	148	5,748	15A01909
SP 46-10	15	Rp 4"	MS 6000	148	6,016	15A01910
SP 46-11	18.5	Rp 4"	MS 6000	148	6,703	15A01911
SP 46-12	18.5	Rp 4"	MS 6000	148	6,967	15A01912
SP 46-13	22	Rp 4"	MS 6000	148	7,503	15A01913
SP 46-14	22	Rp 4"	MS 6000	148	7,774	15A01914
SP 46-15	22	Rp 4"	MS 6000	148	8,039	15A01915
SP 46-16	26	Rp 4"	MS 6000	148	8,715	15A01916
SP 46-17	26	Rp 4"	MS 6000	148	8,981	15A01917
SP 46-18	30	Rp 4"	MS 6000	148	9,545	15A01918
SP 46-19	30	Rp 4"	MS 6000	148	9,690	15A01919
SP 46-20	30	Rp 4"	MS 6000	148	9,885	15A01920
SP 46-21	37	Rp 4"	MMS 6	150	12,100	15A04321
SP 46-22	37	Rp 4"	MMS 6	150	12,356	15A04322
SP 46-23	37	Rp 4"	MMS 6	150	12,608	15A04323
SP 46-24	37	Rp 4"	MMS 6	150	POA	15A04324
SP 46-26 *	45	R 4"	MMS 8000	192	16,867	15A44326
SP 46-28 *	45	R 4"	MMS 8000	192	17,150	15A44328
SP 46-30 *	45	R 4"	MMS 8000	192	17,716	15A44330
SP 46-33 *	55	R 4"	MMS 8000	192	19,499	15A44333
SP 46-35 *	55	R 4"	MMS 8000	192	20,976	15A44335
SP 46-37 *	63	R 4"	MMS 8000	192	22,024	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

Model	P2 kW	Discharge	Motor	Max Ø [mm]	380-415V 3ph 50Hz	
					£	Product Code
SP 60-1-A	1.5	Rp 4"	MS 402	146	2,074	14A019A1
SP 60-1	2.2	Rp 4"	MS 402	146	2,243	14A01901
SP 60-2-B	3	Rp 4"	MS 4000	146	2,694	14A019C2
SP 60-2	4	Rp 4"	MS 4000	146	2,879	14A01902
SP 60-3	5.5	Rp 4"	MS 6000	148	4,104	14AA1903
SP 60-4	7.5	Rp 4"	MS 6000	148	4,257	14AA1904
SP 60-5	9.2	Rp 4"	MS 6000	148	4,694	14A01905
SP 60-6	11	Rp 4"	MS 6000	148	4,985	14A01906
SP 60-7	13	Rp 4"	MS 6000	148	5,341	14A01907
SP 60-8-B	13	Rp 4"	MS 6000	148	5,491	14A019C8
SP 60-8	15	Rp 4"	MS 6000	148	5,704	14A01908
SP 60-9-B	15	Rp 4"	MS 6000	148	5,852	14A019C9
SP 60-9	18.5	Rp 4"	MS 6000	148	6,347	14A01909
SP 60-10	18.5	Rp 4"	MS 6000	148	6,569	14A01910
SP 60-11	22	Rp 4"	MS 6000	148	7,052	14A01911
SP 60-12	22	Rp 4"	MS 6000	148	7,364	14A01912
SP 60-13	26	Rp 4"	MS 6000	148	8,000	14A01913
SP 60-14	26	Rp 4"	MS 6000	148	8,229	14A01914
SP 60-15	26	Rp 4"	MS 6000	148	8,458	14A01915
SP 60-16	30	Rp 4"	MS 6000	148	8,981	14A01916
SP 60-17	30	Rp 4"	MS 6000	148	9,098	14A01917
SP 60-18	37	Rp 4"	MMS 6	150	11,279	14A04318
SP 60-19	37	Rp 4"	MMS 6	150	11,501	14A04319
SP 60-20	37	Rp 4"	MMS 6	150	11,718	14A04320
SP 60-21	37	Rp 4"	MMS 6	150	11,938	14AA4321
SP 60-22	45	Rp 4"	MMS 8000	192	14,773	14A04322
SP 60-24 *	45	R 4"	MMS 8000	192	17,815	14A04324
SP 60-26 *	55	R 4"	MMS 8000	192	19,328	14A04326
SP 60-28 *	55	R 4"	MMS 8000	192	19,910	14A04328
SP 60-30 *	55	R 4"	MMS 8000	192	20,491	14A04330
SP 77-1	5.5	Rp 5"	MS 6000	178	4,232	16A01901
SP 77-2-B	5.5	Rp 5"	MS 6000	178	4,494	16A019C2
SP 77-2	7.5	Rp 5"	MS 6000	178	4,650	16A01902
SP 77-3-B	9.2	Rp 5"	MS 6000	178	5,167	16A019C3
SP 77-3	11	Rp 5"	MS 6000	178	5,363	16A01903
SP 77-4-B	13	Rp 5"	MS 6000	178	5,717	16A019C4
SP 77-4	15	Rp 5"	MS 6000	178	5,975	16A01904
SP 77-5	18.5	Rp 5"	MS 6000	178	6,563	16A01905
SP 77-6	22	Rp 5"	MS 6000	178	7,100	16A01906
SP 77-7	26	Rp 5"	MS 6000	178	7,844	16A01907
SP 77-8-B	26	Rp 5"	MS 6000	178	8,089	16A019C8
SP 77-8	30	Rp 5"	MS 6000	178	8,487	16A01908
SP 77-9	30	Rp 5"	MS 6000	178	8,854	16A01909
SP 77-10	37	Rp 5"	MMS 6	178	10,861	16A04310
SP 77-11	37	Rp 5"	MMS 6	178	11,215	16AA4311
SP 77-12	45	Rp 5"	MMS 8000	200	13,980	16A04312
SP 77-13	55	Rp 5"	MMS 8000	200	15,191	16A04313
SP 77-14	55	Rp 5"	MMS 8000	200	15,544	16A04314
SP 77-15	55	Rp 5"	MMS 8000	200	15,894	16A04315
SP 77-16	63	Rp 5"	MMS 8000	200	16,678	16A04316
SP 77-17	63	Rp 5"	MMS 8000	200	17,028	16A04317
SP 77-18	63	Rp 5"	MMS 8000	200	17,377	16A04318
SP 77-19	75	Rp 5"	MMS 8000	200	18,598	16A04319
SP 77-20	75	Rp 5"	MMS 8000	200	19,180	16A04320
SP 77-21	75	Rp 5"	MMS 8000	200	19,759	16A04321
SP 77-22	90	Rp 5"	MMS 8000	200	21,850	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	4,417	19001901
SP 95-2-BB	5.5	Rp 5"	MS 6000	178	4,566	190019D2
SP 95-2-A	7.5	Rp 5"	MS 6000	178	4,737	190019A2
SP 95-2	9.2	Rp 5"	MS 6000	178	5,146	19001902
SP 95-3-BB	9.2	Rp 5"	MS 6000	178	5,295	190019D3
SP 95-3-B	11	Rp 5"	MS 6000	178	5,504	190019C3
SP 95-3	13	Rp 5"	MS 6000	178	5,749	19001903
SP 95-4-B	15	Rp 5"	MS 6000	178	6,047	190019C4
SP 95-4	18.5	Rp 5"	MS 6000	178	6,520	19001904
SP 95-5-AB	18.5	Rp 5"	MS 6000	178	6,659	190019E5
SP 95-5	22	Rp 5"	MS 6000	178	7,111	19001905
SP 95-6	26	Rp 5"	MS 6000	178	7,903	19001906
SP 95-7	30	Rp 5"	MS 6000	178	8,447	19001907
SP 95-8	37	Rp 5"	MMS 6	178	10,554	19004308
SP 95-9	37	Rp 5"	MMS 6	178	10,950	19064309
SP 95-10	45	Rp 5"	MMS 8000	196	13,761	19004310
SP 95-11	55	Rp 5"	MMS 8000	196	15,012	19004311
SP 95-12	55	Rp 5"	MMS 8000	196	15,406	19004312
SP 95-13	55	Rp 5"	MMS 8000	196	15,802	19004313
SP 95-14	63	Rp 5"	MMS 8000	196	16,625	19004314
SP 95-15	75	Rp 5"	MMS 8000	196	17,888	19004315
SP 95-16	75	Rp 5"	MMS 8000	196	18,278	19004316
SP 95-17	75	Rp 5"	MMS 8000	196	18,673	19004317
SP 95-18	92	Rp 5"	MMS 8000	196	20,571	19004318
SP 95-19	92	Rp 5"	MMS 8000	196	20,959	19004319
SP 95-20	92	Rp 5"	MMS 8000	196	21,349	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 kW	Discharge	Motor	Max Ø [mm]	380-415V 3ph 50Hz	
					£	Product Code
SP 125-1-A	7.5	Rp 6"	MS 6000	211	5,046	17A019A1
SP 125-1	11	Rp 6"	MS 6000	211	5,623	17A01901
SP 125-2-AA	13	Rp 6"	MS 6000	211	5,973	17A019B2
SP 125-2-A	18.5	Rp 6"	MS 6000	211	6,748	17A019A2
SP 125-2	22	Rp 6"	MS 6000	211	6,968	17A01902
SP 125-3-AA	22	Rp 6"	MS 6000	211	7,209	17A019B3
SP 125-3-A	26	Rp 6"	MS 6000	211	7,827	17A019A3
SP 125-3	30	Rp 6"	MS 6000	211	8,244	17A01903
SP 125-4-AA	37	Rp 6"	MMS 6	211	10,134	17A243B4
SP 125-4-A	37	Rp 6"	MMS 6	211	10,364	17A243A4
SP 125-4	37	Rp 6"	MMS 6	211	10,586	17A24304
SP 125-5-AA	45	Rp 6"	MMS 8000	213	13,220	17A043B5
SP 125-5-A	45	Rp 6"	MMS 8000	213	13,448	17A043A5
SP 125-5	55	Rp 6"	MMS 8000	213	14,524	17A04305
SP 125-6-AA	55	Rp 6"	MMS 8000	213	14,741	17A043B6
SP 125-6-A	55	Rp 6"	MMS 8000	213	14,963	17A043A6
SP 125-6	63	Rp 6"	MMS 8000	218	15,611	17A04306
SP 125-7-AA	63	Rp 6"	MMS 8000	218	15,826	17A043B7
SP 125-7-A	63	Rp 6"	MMS 8000	218	16,045	17A043A7
SP 125-7	75	Rp 6"	MMS 8000	218	17,130	17A04307
SP 125-8-AA	75	Rp 6"	MMS 8000	218	17,341	17A043B8
SP 125-8-A	75	Rp 6"	MMS 8000	218	17,558	17A043A8
SP 125-8	75	Rp 6"	MMS 8000	218	17,767	17A04308
SP 125-9-AA	92	Rp 6"	MMS 8000	218	19,484	17A043B9
SP 125-9-A	92	Rp 6"	MMS 8000	218	19,700	17A043A9
SP 125-9	92	Rp 6"	MMS 8000	218	19,904	17A04309
SP 125-10-AA	92	Rp 6"	MMS 8000	218	20,111	17A043B0
SP 125-10-A	92	Rp 6"	MMS 8000	218	20,322	17A043A0
SP 125-10	92	Rp 6"	MMS 8000	218	20,524	17A04310
SP 125-11	110	Rp 6"	MMS 8000	218	22,717	17A04311
SP 125-12	132	Rp 6"	MMS 10000	237	31,788	17AK4312
SP 125-13	132	Rp 6"	MMS 10000	237	33,505	17AK4313
SP 125-14	147	Rp 6"	MMS 10000	237	35,280	17AK4314
SP 125-15	147	Rp 6"	MMS 10000	237	35,623	17AK4315
SP 125-16	170	Rp 6"	MMS 10000	237	37,362	17AK4316
SP 125-17	170	Rp 6"	MMS 10000	237	37,703	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 kW	Discharge	Motor	Max Ø [mm]	380-415V 3ph 50Hz	
					£	Product Code
SP 160-1-A	9.2	Rp 6"	MS 6000	211	5,302	200219A1
SP 160-1	13	Rp 6"	MS 6000	211	5,728	20021901
SP 160-2-AA	18.5	Rp 6"	MS 6000	211	6,508	200219B2
SP 160-2-A	22	Rp 6"	MS 6000	211	6,953	200219A2
SP 160-2	26	Rp 6"	MS 6000	211	7,432	20021902
SP 160-3-AA	30	Rp 6"	MS 6000	211	7,786	200219B3
SP 160-3-A	37	Rp 6"	MMS 6	211	9,851	200243A3
SP 160-3	37	Rp 6"	MMS 6	211	10,098	20024303
SP 160-4-AA	45	Rp 6"	MMS 8000	218	12,757	200243B4
SP 160-4-A	45	Rp 6"	MMS 8000	218	13,011	200243A4
SP 160-4	55	Rp 6"	MMS 8000	218	14,004	20024304
SP 160-5-AA	55	Rp 6"	MMS 8000	218	14,243	200243B5
SP 160-5-A	55	Rp 6"	MMS 8000	218	14,492	200243A5
SP 160-5	63	Rp 6"	MMS 8000	218	15,161	20024305
SP 160-6-AA	75	Rp 6"	MMS 8000	218	16,275	200243B6
SP 160-6-A	75	Rp 6"	MMS 8000	218	16,523	200243A6
SP 160-6	75	Rp 6"	MMS 8000	218	16,763	20024306
SP 160-7-AA	75	Rp 6"	MMS 8000	218	17,002	200243B7
SP 160-7-A	92	Rp 6"	MMS 8000	218	18,758	200243A7
SP 160-7	92	Rp 6"	MMS 8000	218	18,999	20024307
SP 160-8-AA	92	Rp 6"	MMS 8000	218	19,239	200243B8
SP 160-8-A	92	Rp 6"	MMS 8000	218	19,487	200243A8
SP 160-8	92	Rp 6"	MMS 8000	218	19,725	20024308
SP 160-9-AA	110	Rp 6"	MMS 8000	218	21,539	200243B9
SP 160-9-A	110	Rp 6"	MMS 8000	218	21,784	200243A9
SP 160-9	110	Rp 6"	MMS 8000	218	22,024	20024309
SP 160-10-AA	110	Rp 6"	MMS 8000	218	29,823	200243B0
SP 160-10-A	132	Rp 6"	MMS 10000	237	34,922	200643A0
SP 160-10	132	Rp 6"	MMS 10000	237	35,069	20064310
SP 160-11	132	Rp 6"	MMS 10000	237	35,506	20064311
SP 160-12	147	Rp 6"	MMS 10000	237	37,379	20064312
SP 160-13	170	Rp 6"	MMS 10000	237	39,214	20064313
SP 160-14	170	Rp 6"	MMS 10000	237	39,653	20064314
SP 160-15	190	Rp 6"	MMS 12000	286	48,355	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				380-415V 3ph 50Hz	
	kW	Discharge	Motor	Max Ø [mm]	£	Product Code
SP 215-1-A	15	Rp 6"	MS 6000	241	5,971	18A019A1
SP 215-1	18.5	Rp 6"	MS 6000	241	6,542	18A01901
SP 215-2-AA	30	Rp 6"	MS 6000	241	7,705	18A219B2
SP 215-2-A	37	Rp 6"	MMS 6	241	9,783	18A243A2
SP 215-2	45	Rp 6"	MMS 8000	241	12,531	18A04302
SP 215-3-AA	55	Rp 6"	MMS 8000	241	13,727	18A043B3
SP 215-3-A	55	Rp 6"	MMS 8000	241	14,070	18A043A3
SP 215-3	63	Rp 6"	MMS 8000	241	14,835	18A04303
SP 215-4-AA	75	Rp 6"	MMS 8000	241	16,041	18A043B4
SP 215-4-A	75	Rp 6"	MMS 8000	241	16,197	18A043A4
SP 215-4	75	Rp 6"	MMS 8000	241	16,327	18A04304
SP 215-5-AA	92	Rp 6"	MMS 8000	241	18,146	18A043B5
SP 215-5-A	92	Rp 6"	MMS 8000	241	18,464	18A043A5
SP 215-5	92	Rp 6"	MMS 8000	241	18,775	18A04305
SP 215-6-AA	110	Rp 6"	MMS 8000	241	20,654	18A043B6
SP 215-6-A	110	Rp 6"	MMS 8000	241	20,972	18A043A6
SP 215-6	110	Rp 6"	MMS 8000	241	21,281	18A04306
SP 215-7-AA	130	Rp 6"	MMS 8000	241	26,538	18A043B7
SP 215-7-A	130	Rp 6"	MMS 10000	241	26,853	18AT43A7
SP 215-7	130	Rp 6"	MMS 10000	241	27,158	18AT4307
SP 215-8-AA	150	Rp 6"	MMS 10000	241	28,896	18AT43B8
SP 215-8-A	150	Rp 6"	MMS 10000	241	29,210	18AT43A8
SP 215-8	150	Rp 6"	MMS 10000	241	29,514	18AT4308
SP 215-9-AA	170	Rp 6"	MMS 10000	276	31,208	18AT03B9
SP 215-9-A	170	Rp 6"	MMS 10000	276	31,519	18AT03A9
SP 215-9	170	Rp 6"	MMS 10000	276	31,822	18AT0309
SP 215-10-AA	190	Rp 6"	MMS 12000	276	40,388	18AV43B0
SP 215-10-A	190	Rp 6"	MMS 12000	276	40,693	18AV43A0
SP 215-10	190	Rp 6"	MMS 12000	276	40,995	18AV4310
SP 215-11	220	Rp 6"	MMS 12000	286	43,343	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 - SP270-G, SP300-G AND SP360-G SUBMERSIBLE BOREHOLE PUMPS**COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR**

Model	P2	Discharge	Motor diameter	380-415V 3ph 50Hz	
	kW			£	Product Code
SP270-1L G	22	DN175	8"	12,110	96430962
SP270-1F G	26	DN175	8"	12,168	96430963
SP270-1D G	30	DN175	8"	12,590	96430964
SP270-1A G	37	DN175	8"	11,529	96430965
SP270-2L G	45	DN175	8"	15,130	96430966
SP270-2D G	55	DN175	8"	14,105	96430967
SP270-2A G	63	DN175	8"	15,768	96430968
SP270-3V G	75	DN175	8"	18,363	96430969
SP270-3A G	92	DN175	8"	18,680	96430970
SP270-4D G	110	DN175	8"	22,767	96430971
SP270-4D G	110	DN175	10"	27,088	96430972
SP270-4A G	132	DN175	10"	25,749	96430973
SP270-6W G	147	DN175	10"	30,630	96430974
SP270-6F G	147	DN175	10"	30,995	96430975
SP270-6D G	170	DN175	12"	38,817	96430976
SP270-6A G	190	DN175	12"	42,562	96430977
SP270-7A G	220	DN175	12"	45,176	96430978
SP270-8A G	250	DN175	12"	50,442	96430979
SP300-1N G	26	DN175	8"	11,925	96430980
SP300-1L G	30	DN175	8"	12,591	96430981
SP300-1D G	37	DN175	8"	12,540	96430982
SP300-1A G	45	DN175	8"	13,573	96430983
SP300-2L G	55	DN175	8"	15,341	96430984
SP300-2F G	63	DN175	8"	15,821	96430985
SP300-2D G	75	DN175	8"	14,948	96430986
SP300-3L G	75	DN175	8"	18,318	96430987
SP300-3F G	92	DN175	8"	20,144	96430988
SP300-3D G	110	DN175	8"	21,027	96430989
SP300-3D G	110	DN175	10"	22,922	96430990
SP300-3A G	132	DN175	10"	23,747	96430991
SP300-4G G	132	DN175	10"	27,752	96430992
SP300-4F G	132	DN175	10"	25,749	96430993
SP300-4D G	147	DN175	10"	26,632	96430994
SP300-5G G	147	DN175	10"	30,584	96430995
SP300-5F G	170	DN175	12"	39,054	96430996
SP300-5D G	190	DN175	12"	39,763	96430997
SP300-6F G	190	DN175	12"	43,650	96430998
SP300-6D G	220	DN175	12"	43,183	96430999
SP300-6A G	250	DN175	12"	43,966	96431000
SP300-7D G	250	DN175	12"	45,962	96431001
SP360-1L G	37	DN175	8"	11,530	96431002
SP360-1F G	45	DN175	8"	13,092	96431003
SP360-1A G	55	DN175	8"	13,065	96431004
SP360-2N G	63	DN175	8"	15,821	96431005
SP360-2L G	75	DN175	8"	19,242	96431006
SP360-2F G	92	DN175	8"	17,229	96431007
SP360-2A G	110	DN175	8"	17,815	96431008
SP360-3L G	110	DN175	8"	21,027	96431009
SP360-2A G	110	DN175	10"	20,926	96431010
SP360-3L G	110	DN175	10"	25,347	96431011
SP360-3G G	132	DN175	10"	25,233	96431012
SP360-3F G	132	DN175	10"	25,287	96431013
SP360-3D G	147	DN175	10"	26,170	96431014
SP360-3A G	170	DN175	12"	33,183	96431015
SP360-4G G	170	DN175	12"	35,185	96431016
SP360-4F G	170	DN175	12"	35,185	96431017
SP360-4D G	190	DN175	12"	37,767	96431018
SP360-5G G	190	DN175	12"	39,763	96431019
SP360-5F G	220	DN175	12"	41,181	96431020
SP360-5D G	250	DN175	12"	41,964	96431021
SP360-6F G	250	DN175	12"	46,330	96431022

ELECTRIC MOTOR

380-415V 3ph 50Hz

For use with external VFD, contact your sales office.

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	145	98582272
SA-CSIR	0.55	168	98582277
SA-CSIR	0.75	194	98582295

Type	for motor kW	£	Product Code
SA-CSCR	1.1	258	98582296
SA-CSCR	1.5	322	98582381
SA-CSCR	2.2	371	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	684	96079927
Current transformer assembly 200/5	413	96095281
Current transformer assembly 300/5	435	96095282
Current transformer assembly 500/5	490	96095283
Current transformer assembly 750/5	510	96095284
Current transformer assembly 1000/5	540	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	241	96804042
PT1000 Sensor with 40m cable	354	96804044
PT1000 Sensor with 60m cable	468	96804064
PT1000 Sensor with 80m cable	585	96804065
PT1000 Sensor with 100m cable	698	96804067

Staybolt kits for PT1000 in MS402 & MS4000	EN1.4401/AISI 316	94	98090278
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For Grundfos MS6000 & MMS motors	£	Product Code
PT100 Sensor with 20m cable	204	96913237
PT100 Sensor with 40m cable	352	96913253
PT100 Sensor with 60m cable	500	96913256
PT100 Sensor with 80m cable	648	96913260
PT100 Sensor with 100m cable	796	96913263

Staybolt kits for PT100 in MS6 & MS6000	EN1.4401/AISI 316	183	97550639
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Insertion probe for MMS10000 & MMS12000	EN1.4401/AISI 316	86	96913215
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MMS6 and MMS8000 motors do not require staybolt for PT100

For Franklin motors

PT100*	4 - 45 kW 6" Motor	POA	96546888
PT100*	30 - 75 kW 8" Motor	POA	96555525
PT100*	93 - 150 kW 8" Motor	POA	96432425

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

For PT100 and PT1000	£	Product Code
PR 5714	789	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.



CATEGORY 3 - SP CABLES and ACCESSORIES

STANDARD NON WRAS SUBMERSIBLE DROP CABLE

Model	£	Product Code
4 x 1.5 sq mm (price per metre)	12	00ID4063
4 x 2.5 sq mm (price per metre)	12	00ID4064
4 x 4 sq mm (price per metre)	13	00ID4065
4 x 6 sq mm (price per metre)	15	00ID4066

Model	£	Product Code
4 x 10 sq mm (price per metre)	28	00ID4067
4 x 16 sq mm (price per metre)	41	00ID4068
4 x 25 sq mm (price per metre)	59	00ID4069
1 x 35 sq mm (price per metre)	20	00ID4073
1 x 50 sq mm (price per metre)	27	00ID4074

WRAS APPROVED SUBMERSIBLE DROP CABLE

Model	£	Product Code
4 x 1.5 sq mm (price per metre)	36	98258159
4 x 2.5 sq mm (price per metre)	17	98258162
4 x 4 sq mm (price per metre)	27	98258164
4 x 6 sq mm (price per metre)	23	98258165

Model	£	Product Code
4 x 10 sq mm (price per metre)	80	98254486
4 x 16 sq mm (price per metre)	99	98258168
4 x 25 sq mm (price per metre)	153	98258169
4 x 50 sq mm (price per metre)	282	98294201
4 x 70 sq mm (price per metre)	404	98294203
1 x 25 sq mm (price per metre)	20	98258151
1 x 50 sq mm (price per metre)	31	98258154
1 x 70 sq mm (price per metre)	71	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	P.O.A.	799901
4 core 4mm2 - 6mm2 (4" motor up to 4kW) with plug	1	P.O.A.	799902
4 core 10mm2 - 16mm2 (6" motor up to 30kW)	1	P.O.A.	116218
4 core 25mm2 cable (6" motor up to 30kW)	1	P.O.A.	116219

Heat shrink cable joints

4 core 1.5mm2 - 2.5mm2 (4" motor up to 30kW)	1	P.O.A.	116251
4 core 4mm2 - 10mm2 (4" motor up to 30kW)	1	P.O.A.	116252
4 core 6mm2 - 10mm2 (6" motor up to 4kW)	1	P.O.A.	116252
4 core 16mm2 - 25mm2 (6" motor up to 30kW)	1	P.O.A.	116255
4 core 6mm2 - 16mm2 (6"/8" motor above 30kW)	1	P.O.A.	116258
4 core 35mm2 - 120mm2 (6"/8" motor above 30kW)	4	P.O.A.	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	129	120125
	65	16/40	174	120126
	80	16/40	255	120127
Rp 3"	65	16/40	228	130187
	80	16/40	215	130188
	100	16	268	130210
	100	40	282	130189
Rp 4"	100	16	268	140077
	100	40	282	140071
Rp 5"	100	16	382	160159
	100	40	402	160148
	125	16	346	160157
	125	40	364	160149
	150	16	472	160161
	150	40	497	160150
Rp 6"	125	16	459	170170
	125	40	484	170159
	150	16	447	98518437
	150	40	470	170160
	200	16	671	170161
	200	40	967	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 - DP / EF DRAINAGE AND EFFLUENT WASTEWATER PUMPS

DRAINAGE AND EFFLUENT PUMPS			DP/EF
Model	Electric Motor Per Pump kW -P2	£	Product Code
All DP/EF Pumps have 2 pole motors			
230V 1Ph 50Hz			
DP10.50.09.2.1.502	0.9	1,455	96104200
DP10.50.09.A.2.1.502	0.9	1,789	96104202
230V 1Ph 50Hz Explosion Proof			
DP10.50.09.EX.2.1.502	0.9	1,694	96104201
400-415V 3Ph 50Hz			
DP10.50.09.2.50B	0.9	1,455	96104204
DP10.50.09.A.2.50B	0.9	1,789	96104206
DP10.50.15.2.50B	1.5	1,743	96104208
DP10.50.15.A.2.50B	1.5	2,095	96104210
DP10.65.26.2.50B	2.6	2,073	96106542
DP10.65.26.A.2.50B	2.6	2,425	96106544
400-415V 3Ph 50Hz Explosion Proof			
DP10.50.09.EX.2.50B	0.9	1,694	96104205
DP10.50.15.EX.2.50B	1.5	1,905	96104209
DP10.65.26.EX.2.50B	2.6	2,236	96106543
230V 1Ph 50Hz			
EF30.50.06.2.1.502	0.6	1,064	96106546
EF30.50.06.A.2.1.502	0.6	1,398	96106548
EF30.50.09.2.1.502	0.9	1,141	96115111
EF30.50.09.A.2.1.502	0.9	1,476	96115113
EF30.50.11.2.1.502	1.1	1,221	96106554
EF30.50.11.A.2.1.502	1.1	1,555	96106556
230V 1Ph 50Hz Explosion Proof			
EF30.50.06.EX.2.1.502	0.6	1,282	96106547
EF30.50.09.EX.2.1.502	0.9	1,364	96115112
EF30.50.11.EX.2.1.502	1.1	1,447	96106555
400-415V 3Ph 50Hz			
EF30.50.06.2.50B	0.6	1,064	96106550
EF30.50.06.A.2.50B	0.6	1,398	96106552
EF30.50.09.2.50B	0.9	1,141	96115115
EF30.50.09.A.2.50B	0.9	1,476	96115117
EF30.50.11.2.50B	1.1	1,221	96106558
EF30.50.11.A.2.50B	1.1	1,555	96106560
EF30.50.15.2.50B	1.5	1,394	96104196
EF30.50.15.A.2.50B	1.5	1,746	96104198
400-415V 3Ph 50Hz Explosion Proof			
EF30.50.06.EX.2.50B	0.6	1,282	96106551
EF30.50.09.EX.2.50B	0.9	1,364	96115116
EF30.50.11.EX.2.50B	1.1	1,447	96106559
EF30.50.15.EX.2.50B	1.5	1,557	96104197

ELECTRIC MOTOR

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

Note : The pump with the "A" in the pump designation is equipped with a CU100 control box.

CATEGORY 3 - DP / EF DRAINAGE AND EFFLUENT AUTO ADAPT WASTEWATER PUMPS

DRAINAGE AND EFFLUENT PUMPS AUTO ADAPT

DP/EF

Pump Type	kW	£	Product Code
DP10 AUTO ADAPT			
230V 1Ph 50Hz			
DP10.50.09.E.2.1.502	0.9	2,645	96877476
400-415V 3Ph 50Hz			
DP10.50.09.E.2.50B	0.9	2,645	96877478
DP10.50.15.E.2.50B	1.5	2,876	96877503
DP10.65.26.E.2.50B	2.6	3,330	96877506
DP10 AUTO ADAPT Ex			
230V 1Ph 50Hz			
DP10.50.09.E.Ex.2.1.502	0.9	2,888	96877479
400-415V 3Ph 50Hz			
DP10.50.09.E.Ex.2.50B	0.9	2,888	96877502
DP10.50.15.E.Ex.2.50B	1.5	3,118	96877504
DP10.65.26.E.Ex.2.50B	2.6	3,572	96877507
EF30 AUTO ADAPT			
230V 1Ph 50Hz			
EF30.50.06.E.2.1.502	0.6	1,921	96877508
EF30.50.09.E.2.1.502	0.9	1,999	96877515
EF30.50.11.E.2.1.502	1.1	2,079	96875101
400-415V 3Ph 50Hz			
EF30.50.06.E.2.50B	0.6	1,921	96877510
EF30.50.09.E.2.50B	0.9	1,999	96877516
EF30.50.11.E.2.50B	1.1	2,079	96878445
EF30.50.15.E.2.50B	1.5	2,184	96878448
EF30 AUTO ADAPT Ex			
230V 1Ph 50Hz			
EF30.50.06.E.Ex.2.1.502	0.6	2,133	96877512
EF30.50.09.E.Ex.2.1.502	0.9	2,211	96877518
EF30.50.11.E.Ex.2.1.502	1.1	2,291	96878446
400-415V 3Ph 50Hz			
EF30.50.06.E.Ex.2.50B	0.6	2,133	96877514
EF30.50.09.E.Ex.2.50B	0.9	2,211	96877532
EF30.50.11.E.Ex.2.50B	1.1	2,291	96878447
EF30.50.15.E.Ex.2.50B	1.5	2,396	96878449

ELECTRIC MOTOR

230V 1ph 50Hz

400-415V 3ph 50Hz

IP68 Enclosure

Class F insulation

DP / EF Auto-Coupling	Pump	£	Product Code
Hookup Auto Coupling 2" with 90° elbow	DP10.50 / EF30.50	189	96004445
Auto Coupling DN65 cpl.	DP10.65	407	96090992
Auto coupling DN80 / DN65 cpl.	DP10.65	465	96102238
Autocoupling Rp2 cpl.	DP10.50 / EF30.50	259	97644486

CATEGORY 3 - AP 35B and AP 50B WASTEWATER AND SEWAGE PUMPS**AP 35B WASTE WATER and SEWAGE PUMPS****AP - B**

Model	£	Product Code
240V 1Ph 50Hz		
AP 35B.50.06.1V	479	96004563
AP 35B.50.06.A1V	561	96468356
AP 35B.50.08.1V	578	96004575
AP 35B.50.08.A1V	661	96468355

400V 3Ph 50Hz

AP 35B.50.06.3V	535	96468190
AP35B.50.08.3V	636	96468193

AP35B Auto-Coupling

Auto Coupling, straight, for 3/4" guide rails	131	96429519
Auto Coupling, for 1" guide rails	259	97644486

AP 50B WASTE WATER AND SEWAGE PUMPS**AP****240v 1Ph 50Hz**

AP 50B.50.08.1V	747	96004587
AP 50B.50.11.1V	923	96004599
AP 50B.50.08.A1V	814	96004586
AP 50B.50.11.A1V	994	96004598

400V 3Ph 50Hz

AP 50B.50.08.3V	747	96468194
AP 50B.50.11.3V	881	96468195
AP 50B.50.15.3V	1,030	96468196

AP 50B Auto-Coupling

Auto Coupling, straight, for 3/4" guide rails	131	96429519
Auto Coupling, for 1" guide rails	259	97644486

AP 50B Adaptor

Adaptor for Sarlin TV range to an AP50 B	126	GBWGP0040
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ELECTRIC MOTOR

230V 1ph 50Hz

400V 3ph 50Hz

IP68 Enclosure

Class F insulation



CATEGORY 3 - SEG & APG WASTEWATER AND SEWAGE PUMPS

SEG WASTE WATER AND SEWAGE GRINDER PUMPS

SEG

Model	Electric Motor P2 (kW)	£	£	Product Code
240V 1Ph 50Hz				
SEG.40.09.2.1.502	0.9		1,921	96075893
SEG.40.12.2.1.502	1.2		1,921	96075901
400V 3Ph 50Hz				
SEG.40.09.2.50B	0.9		1,921	96075897
SEG.40.12.2.50B	1.2		1,921	96075905
SEG.40.15.2.50B	1.5		2,169	96075909
SEG.40.26.2.50B	2.6		2,692	96075913
SEG.40.31.2.50B	3.1		2,789	96075915
SEG.40.40.2.50B	4.0		3,254	96075917
SEG.50.26.2.50B	2.6		2,828	99274384
SEG.50.31.2.50B	3.1		2,929	99274386
SEG.50.40.2.50B	4.0		3,416	99274388

Explosion-proof SEG pumps

240V 1Ph 50Hz

SEG.40.09.EX.2.1.502	0.9		2,124	96075894
SEG.40.12.EX.2.1.502	1.2		2,124	96075902

400V 3Ph 50Hz

SEG.40.09.EX.2.50B	0.9		2,124	96075898
SEG.40.12.EX.2.50B	1.2		2,124	96075906
SEG.40.15.EX.2.50B	1.5		2,314	96075910
SEG.40.26.EX.2.50B	2.6		2,817	96075914
SEG.40.31.EX.2.50B	3.1		2,913	96075916
SEG.40.40.EX.2.50B	4.0		3,398	96075918
SEG.50.26.EX.2.50B	2.6		2,959	99274385
SEG.50.31.EX.2.50B	3.1		3,059	99274387
SEG.50.40.EX.2.50B	4.0		3,569	99274389

APG WASTE WATER AND SEWAGE GRINDER PUMPS

APG

400V 3Ph 50Hz

APG50.65.3	6.5		7,620	96835728
APG50.92.3	9.2		8,489	96835731

CU100 Single Phase Starter

With Float

Without Float

SEG.40.09.2.1.502	636		96076197
SEG.40.09.2.1.502		498	96076209
SEG.40.12.2.1.502	636		96076197
SEG.40.12.2.1.502		498	96076209

The CU100 motor starter is required with SEG single phase pumps. CU100 must not be used for Ex applications

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

APG & SEG Auto-Coupling

SEG Hookup Auto Coupling Rp/Rp 2	186	96004442
SEG Hookup Auto Coupling DN40/RP 1 1/2	228	96076089
SEG Auto Coupling DN40/Rp 1 1/2	208	96076063
SEG.50 Auto Coupling DN50/RP 2	259	97695874
APG Auto-Coupling	424	96005353

Note: A Heavy Duty cutter can be supplied as an FPV option using 96903344 kit.
Please contact the Sales Office for pump configuration with this HD cutter fitted.

SEG Stand Extension - Complete Feet Kit be fitted to pump housing base

3 Additional Lengths	109	96076196
APG to a SEG Adaptor	154	96578891

Adaptors for other manufacturers pumps are available on request.

ELECTRIC MOTOR

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

CATEGORY 3 - SEG WASTEWATER AND SEWAGE AUTO ADAPT PUMPS

SEG WASTE WATER AND SEWAGE GRINDER PUMPS AUTO ADAPT SEG

Pump Type	Electric Motor P2 (kW)	£	Product Code
SEG AUTO ADAPT PUMPS			
230V 1Ph 50Hz			
SEG.40.09.E.2.1.502	0.9	2,780	96878505
SEG.40.12.E.2.1.502	1.2	2,780	96878509

380-415V 3Ph 50Hz			
SEG.40.09.E.2.50B	0.9	2,780	96878506
SEG.40.12.E.2.50B	1.2	2,780	96878510
SEG.40.15.E.2.50B	1.5	3,010	96878514
SEG.40.26.E.2.50B	2.6	3,590	96878516
SEG.40.31.E.2.50B	3.1	3,679	96878518
SEG.40.40.E.2.50B	4.0	4,109	96878520
SEG.50.26.E.2.50B	2.6	3,768	99274434
SEG.50.31.E.2.50B	3.1	3,863	99274436
SEG.50.40.E.2.50B	4.0	4,313	99274438

Explosion-proof SEG AUTO ADAPT pumps			
230V 1Ph 50Hz			
SEG.40.09.E.Ex.2.1.502	0.9	3,035	96878507
SEG.40.12.E.Ex.2.1.502	1.2	3,035	96878512

380-415V 3Ph 50Hz			
SEG.40.09.E.Ex.2.50B	0.9	3,035	96878508
SEG.40.12.E.Ex.2.50B	1.2	3,035	96878513
SEG.40.15.E.Ex.2.50B	1.5	3,187	96878515
SEG.40.26.E.Ex.2.50B	2.6	3,772	96878517
SEG.40.31.E.Ex.2.50B	3.1	3,861	96878519
SEG.40.40.E.Ex.2.50B	4.0	4,310	96878521
SEG.50.26.E.Ex.2.50B	2.6	3,960	99274435
SEG.50.31.E.Ex.2.50B	3.1	4,055	99274437
SEG.50.40.E.Ex.2.50B	4.0	4,525	99274439

SEG Auto-Coupling			
SEG Hookup Auto Coupling Rp/Rp 2		186	96004442
SEG Hookup Auto Coupling DN40/RP 1 1/2		228	96076089
SEG Auto Coupling DN40/Rp 1 1/2		208	96076063
SEG.50 Auto Coupling DN50/RP 2		259	97695874

Note: A Heavy Duty cutter can be supplied as an FPV option using 96903344 kit.
Please contact the Sales Office for pump configuration with this HD cutter fitted.

Stand Extension - Complete Feet Kit to be fitted to pump housing base			
3 Additional Lengths		109	96076196

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

APG to an SEG Adaptor		154	96578891
Adaptors for other manufacturers pumps are available on request.			

ELECTRIC MOTOR

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



CATEGORY 3 - SL1 SEWAGE AND WASTE WATER PUMPS

SL1 CHANNEL and S-TUBE IMPELLER WASTE WATER & SEWAGE PUMP (WET WELL APPLICATIONS)

SL1

		Non ATEX		ATEX		Including CU100 control box Non ATEX		Sensor Version ATEX		
Model	P2 (kW)	Product Code	£	Product Code	£	Product Code	List Price	Product Code	£	Auto Coupling (not included)
240v 1ph 50Hz										
Channel Impeller - 50mm Solids Handling - DN 65 Discharge										
SL1.50.65.09.2.1.502	0.9	96106562	1,283	96106563	1,519	96106564	1,787	-	-	96090992
SL1.50.65.11.2.1.502	1.1	96104125	1,456	96104126	1,701	96104127	1,803	-	-	96090992
400v 3ph 50Hz										
Channel Impeller - 50mm Solids Handling - DN 65 Discharge										
SL1.50.65.09.2.50B	0.9	96106566	1,283	96106568	1,519	96106570	1,629	-	-	96090992
SL1.50.65.11.2.50B	1.1	96104129	1,456	96104131	1,701	96104133	1,803	-	-	96090992
SL1.50.65.15.2.50B	1.5	96104118	1,879	96104120	2,048	96104122	2,244	-	-	96090992
Model	P2 (kW)	Non ATEX		ATEX		Sensor Version Non ATEX		Sensor Version ATEX		Auto Coupling (not included)
		Product Code	£	Product Code	£	Product Code	List Price	Product Code	£	
400v 3ph 50Hz										
S-Tube Impeller - 50mm Solids Handling - DN 65 Discharge										
SL1.50.65.22.2.50D	2.2	98624257	2,072	98626698	2,182	98626303	2,636	98626482	2,755	96090992
SL1.50.65.30.2.50D	3.0	98624258	2,337	98626699	2,447	98626304	2,922	98626483	3,041	96090992
SL1.50.65.40.2.51D	4.0	98624259	2,759	98626705	2,759	98626316	3,376	98626489	3,376	96090992
S-Tube Impeller - 50mm Solids Handling - DN 80 Discharge										
SL1.50.80.22.2.50D	2.2	98617678	2,112	98617679	2,223	98617680	2,680	98617691	2,799	96090993
SL1.50.80.30.2.50D	3.0	98626076	2,374	98626700	2,484	98626306	2,961	98626484	3,080	96090993
SL1.50.80.40.2.51D	4.0	98624260	2,798	98626708	2,798	98626319	3,418	98626492	3,418	96090993
S-Tube Impeller - 80mm Solids Handling - DN 80 Discharge										
SL1.80.80.15.4.50D	1.5	98624693	2,362	98626615	2,473	98626189	2,949	98626399	3,068	96090993
SL1.80.80.22.4.50D	2.2	98624251	2,542	98626619	2,653	98624696	3,143	98626403	3,262	96090993
SL1.80.80.30.4.50D	3.0	98624669	3,436	98626608	3,655	98626175	4,104	98626392	4,340	96090993
SL1.80.80.40.4.51D	4.0	98626052	3,893	98626676	4,112	98626276	4,596	98626460	4,832	96090993
SL1.80.80.55.4.51D	5.5	98624697	4,492	98626647	4,711	98626246	5,241	98626431	5,477	96090993
SL1.80.80.75.4.51D	7.5	98624703	5,120	98626687	5,383	98626292	5,917	98626471	6,200	96090993
S-Tube Impeller - 80mm Solids Handling - DN 100 Discharge										
SL1.80.100.15.4.50D	1.5	98625977	2,370	98626616	2,480	98626190	2,957	98626400	3,076	96090994
SL1.80.100.22.4.50D	2.2	98624695	2,554	98626620	2,664	98626193	3,155	98626404	3,274	96090994
SL1.80.100.30.4.50D	3.0	98625966	3,457	98626609	3,676	98626176	4,127	98626393	4,363	96090994
SL1.80.100.40.4.51D	4.0	98626053	3,905	98626677	4,124	98626277	4,609	98626461	4,845	96090994
SL1.80.100.55.4.51D	5.5	98626028	4,492	98626648	4,711	98626247	5,241	98626432	5,477	96090994
SL1.80.100.75.4.51D	7.5	98626066	5,162	98626688	5,426	98626293	5,962	98626472	6,246	96090994
S-Tube Impeller - 100mm Solids Handling - DN 100 Discharge										
SL1.100.100.40.4.51D	4.0	98624701	4,321	98626678	4,540	98626278	5,057	98626462	5,293	96090994
SL1.100.100.55.4.51D	5.5	98626029	4,924	98626649	5,143	98626248	5,706	98626433	5,942	96090994
SL1.100.100.75.4.51D	7.5	98626067	5,527	98626689	5,790	98626294	6,355	98626473	6,638	96090994
S-Tube Impeller - 100mm Solids Handling - DN 150 Discharge										
SL1.100.150.40.4.51D	4.0	98626054	4,389	98626679	4,608	98626279	5,130	98626463	5,366	96090995
SL1.100.150.55.4.51D	5.5	98626030	4,992	98626650	5,211	98626250	5,779	98626434	6,015	96090995
SL1.100.150.75.4.51D	7.5	98626068	5,594	98626690	5,858	98626295	6,428	98626474	6,711	96090995

Pump descriptions ending in 50D are for DOL starting
With Direct On Line starting we use 7 x 1.5 mm² core motor cable.

Pump descriptions ending in 51D are for Y/D starting
With Star/Delta starting we use 10 x 1.5 mm² core motor cable.

Accessories for SL1 Pumps as above are listed on page 32.

The above models are available as Sensor Versions for monitoring temperature, water in oil, stator insulation resistance and moisture in motor. Grundfos IO 113 sensor module is not included with the pump. Please consult Sales Office for more information.

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



CATEGORY 3 - SLV SEWAGE AND WASTE WATER PUMPS

SLV VORTEX WASTE WATER & SEWAGE PUMP (WET WELL APPLICATIONS)

SLV

		Non ATEX		ATEX		Sensor Version Non ATEX		Sensor Version ATEX		
Model	P2 (kW)	Product Code	£	Product Code	£	Product Code	£	Product Code	£	Auto Coupling (not included)
240v 1ph 50Hz										
Vortex Impeller - 65mm Solids Handling - DN 65 Discharge										
SLV.65.65.09.2.1.502	0.9	96115119	1,111	96115120	1,317	-	-	-	-	96090992
SLV.65.65.11.2.1.502	1.1	96106573	1,247	96106576	1,313	-	-	-	-	96090992
400v 3ph 50Hz										
Vortex Impeller - 65mm Solids Handling - DN 65 Discharge										
SLV.65.65.09.2.50B	0.9	96115123	1,111	96115124	1,317	-	-	-	-	96090992
SLV.65.65.11.2.50B	1.1	96106577	1,210	96106578	1,461	-	-	-	-	96090992
SLV.65.65.15.2.50B	1.5	96104192	1,617	96104193	1,765	-	-	-	-	96090992
SLV.65.65.22.2.50D	2.2	98624199	2,341	98626606	2,451	98626169	2,899	98626390	3,017	96090992
SLV.65.65.30.2.50D	3.0	98624165	2,426	98626604	2,537	98626159	2,990	98626388	3,107	96090992
SLV.65.65.40.2.51D	4.0	98624254	2,860	98626659	2,860	98626259	3,452	98626443	3,452	96090992
Vortex Impeller - 65mm Solids Handling - DN 80 Discharge										
SLV.65.80.22.2.50D	2.2	98625961	2,354	98626607	2,465	98626170	2,913	98626391	3,031	96090993
SLV.65.80.30.2.50D	3.0	98625942	2,440	98626605	2,550	98626160	3,004	98626389	3,122	96090993
SLV.65.80.40.2.51D	4.0	98624699	2,876	98626660	2,876	98626260	3,469	98626444	3,469	96090993
Vortex Impeller - 80mm Solids Handling - DN 80 Discharge										
SLV.80.80.11.4.50D	1.1	98625975	2,240	98626611	2,351	98626185	2,618	98626395	2,728	96090993
SLV.80.80.13.4.50D	1.3	98624692	2,296	98626613	2,407	98626187	2,674	98626397	2,785	96090993
SLV.80.80.15.4.50D	1.5	98624694	2,327	98626617	2,438	98626191	2,705	98626401	2,816	96090993
SLV.80.80.22.4.50D	2.2	98624252	2,370	98626621	2,480	98626194	2,748	98626405	2,858	96090993
SLV.80.80.40.4.51D	4.0	98624702	2,678	98626680	2,897	98626280	3,056	98626464	3,275	96090993
SLV.80.80.40.2.51D	4.0	98626039	2,864	98626661	2,864	98626261	3,242	98626445	3,242	96090993
SLV.80.80.60.2.51D	6.0	98626041	3,513	98626663	3,732	98626263	3,891	98626447	4,110	96090993
SLV.80.80.75.2.51D	7.5	98624255	4,246	98626669	4,465	98626269	4,624	98626453	4,843	96090993
SLV.80.80.92.2.51D	9.2	98626047	4,474	98626671	4,738	98626271	4,852	98626455	5,116	96090993
SLV.80.80.110.2.51D	11.0	98624700	4,930	98626665	5,193	98626265	5,308	98626449	5,571	96090993
Vortex Impeller - 80mm Solids Handling - DN 100 Discharge										
SLV.80.100.11.4.50D	1.1	98624691	2,290	98626612	2,401	98626186	2,668	98626396	2,779	96090994
SLV.80.100.13.4.50D	1.3	98625976	2,349	98626614	2,459	98626188	2,726	98626398	2,837	96090994
SLV.80.100.15.4.50D	1.5	98625978	2,380	98626618	2,490	98626192	2,757	98626402	2,868	96090994
SLV.80.100.22.4.50D	2.2	98625979	2,422	98626622	2,533	98626195	2,800	98626406	2,911	96090994
SLV.80.100.40.4.51D	4.0	98626055	2,730	98626681	2,949	98626281	3,108	98626465	3,327	96090994
SLV.80.100.40.2.51D	4.0	98626040	2,913	98626662	2,913	98626262	3,290	98626446	3,290	96090994
SLV.80.100.60.2.51D	6.0	98626042	3,566	98626664	3,785	98626264	3,943	98626448	4,162	96090994
SLV.80.100.75.2.51D	7.5	98626046	4,296	98626670	4,515	98626270	4,674	98626454	4,893	96090994
SLV.80.100.92.2.51D	9.2	98626048	4,525	98626672	4,788	98626272	4,903	98626456	5,166	96090994
SLV.80.100.110.2.51D	11.0	98626043	4,982	98626666	5,246	98626266	5,360	98626450	5,623	96090994
Vortex Impeller - 100mm Solids Handling - DN 100 Discharge										
SLV.100.100.30.4.50D	3.0	98625967	2,996	98626610	3,215	98626177	3,597	98626394	3,831	96090994
SLV.100.100.40.4.51D	4.0	98626056	3,211	98626682	3,430	98626282	3,826	98626466	4,060	96090994
SLV.100.100.55.4.51D	5.5	98626031	3,848	98626651	4,067	98626251	4,506	98626435	4,740	96090994
SLV.100.100.75.4.51D	7.5	98624704	4,672	98626691	4,936	98626296	5,384	98626475	5,665	96090994

Pump descriptions ending in 50B and 50D are for DOL starting
With Direct On Line starting we use 7 x 1.5 mm² core motor cable.

Pump descriptions ending in 51D are for Y/D starting
With Star/Delta Starting we use 10 x 1.5 mm² core motor cable.

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

Accessories for SLV Pumps as above are listed on page 32.

The above models are available as Sensor Versions for monitoring temperature, water in oil, stator insulation resistance and moisture in motor.
Grundfos IO 113 sensor module is not included with the pump. Please consult Sales Office for more information.



CATEGORY 3 - SL1 & SLV SEWAGE AND WASTE WATER AUTO ADAPT PUMPS

SL1 & SLV SEWAGE AND WASTE WATER PUMPS AUTO ADAPT

SL1/SLV

Pump Type	P2 (kW)	£	Product Code
SL1 AUTO ADAPT			
230V 1Ph 50Hz			
SL1.50.65.09.E.2.1.502.B	0.9	2,193	96878450
SL1.50.65.11.E.2.1.502.B	1.1	2,369	96878454
380-415V 3Ph 50Hz			
SL1.50.65.09.E.2.50B.B	0.9	2,193	96878451
SL1.50.65.11.E.2.50B.B	1.1	2,369	96878455
SL1.50.65.15.E.2.50B.B	1.5	2,703	96878458
SL1 AUTO ADAPT Ex			
230V 1Ph 50Hz			
SL1.50.65.09.E.Ex.2.1.502.B	0.9	2,415	96878452
SL1.50.65.11.E.Ex.2.1.502.B	1.1	2,591	96878456
380-415V 3Ph 50Hz			
SL1.50.65.09.E.Ex.2.50B.B	0.9	2,415	96878453
SL1.50.65.11.E.Ex.2.50B.B	1.1	2,591	96878457
SL1.50.65.15.E.Ex.2.50B.B	1.5	2,925	96878472
SLV AUTO ADAPT			
230V 1Ph 50Hz			
SLV65.65.09.E.2.1.502	0.9	1,911	96878474
SLV65.65.11.E.2.1.502	1.1	2,049	96882685
380-415V 3Ph 50Hz			
SLV65.65.09.E.2.50B	0.9	1,911	96878475
SLV65.65.11.E.2.50B	1.1	2,049	96882686
SLV65.65.15.E.2.50B	1.5	2,342	96878503
SLV AUTO ADAPT Ex			
230V 1Ph 50Hz			
SLV65.65.09.E.Ex.2.1.502	0.9	2,105	96878476
SLV65.65.11.E.Ex.2.1.502	1.1	2,244	96878480
380-415V 3Ph 50Hz			
SLV65.65.11.E.Ex.2.50B	1.1	2,244	96878481
SLV65.65.15.E.Ex.2.50B	1.5	2,537	96878504

ELECTRIC MOTOR

230V 1ph 50Hz DOL

400-415V 3ph 50Hz DOL

IP68 Enclosure

Class F insulation

Pump descriptions ending in 02 and 50B are for DOL starting.

Accessories for SL1 and SLV Pumps as above are listed on page 32.



CATEGORY 3 - SE1 SEWAGE AND WASTE WATER PUMPS

SE1 S-TUBE IMPELLER WASTE WATER & SEWAGE PUMP (WET WELL & DRYWELL APPLICATIONS)

SE1

		Non ATEX		Sensor Version Non ATEX		Sensor Version ATEX		
Model	P2 (kW)	Product Code	£	Product Code	£	Product Code	£	Auto Coupling (not included)
400V 3ph 50Hz								
S-Tube Impeller - 50mm Solids Handling - DN 65 Discharge								
SE1.50.65.22.2.50D.B	2.2	96047509	2,482	96177629	3,337	96177673	3,675	96090992
SE1.50.65.30.2.50D.B	3.0	96047517	2,686	96177630	3,556	96177674	3,923	96090992
SE1.50.65.40.2.51D.B	4.0	96047525	3,296	96177631	4,213	96177675	4,630	96090992
S-Tube Impeller - 50mm Solids Handling - DN 80 Discharge								
SE1.50.80.22.2.50D.B	2.2	96047981	2,524	96177632	3,382	96177676	3,683	96090993
SE1.50.80.30.2.50D.B	3.0	96047989	2,727	96177633	3,600	96177677	3,936	96090993
SE1.50.80.40.2.51D.B	4.0	96047997	3,336	96177634	4,257	96177678	4,637	96090993
S-Tube Impeller - 80mm Solids Handling - DN 80 Discharge								
SE1.80.80.15.4.50D.B	1.5	96047533	2,746	96177635	3,276	96177679	3,615	96090993
SE1.80.80.22.4.50D.B	2.2	96047549	2,950	96177636	3,480	96177680	3,836	96090993
SE1.80.80.30.4.50D.B	3.0	96047565	3,664	96177637	4,194	96177681	4,640	96090993
SE1.80.80.40.4.51D.B	4.0	96047597	4,043	96177638	4,573	96177682	5,067	96090993
SE1.80.80.55.4.51D.B	5.5	96047613	4,663	96177639	5,193	96177683	5,753	96090993
SE1.80.80.75.4.51D.B	7.5	96047627	5,315	96177640	5,845	96177684	6,468	96090993
S-Tube Impeller - 80mm Solids Handling - DN 100 Discharge								
SE1.80.100.15.4.50D.B	1.5	96048005	2,524	96177641	3,039	96177685	3,392	96090994
SE1.80.100.22.4.50D.B	2.2	96048021	2,727	96177642	3,243	96177686	3,599	96090994
SE1.80.100.30.4.50D.B	3.0	96048037	3,604	96177643	4,134	96177687	4,582	96090994
SE1.80.100.40.4.51D.B	4.0	96048069	4,052	96177644	4,582	96177688	5,078	96090994
SE1.80.100.55.4.51D.B	5.5	96048085	4,663	96177645	5,193	96177689	5,631	96090994
SE1.80.100.75.4.51D.B	7.5	96048099	5,360	96177646	5,890	96177690	6,334	96090994
S-Tube Impeller - 100mm Solids Handling - DN 100 Discharge								
SE1.100.100.40.4.51D.B	4.0	96047641	4,506	96177647	5,419	96177691	5,876	96090994
SE1.100.100.55.4.51D.B	5.5	96047657	5,182	96177648	6,147	96177692	6,657	96090994
SE1.100.100.75.4.51D.B	7.5	96047671	5,827	96177649	6,841	96177693	7,405	96090994
S-Tube Impeller - 100mm Solids Handling - DN 150 Discharge								
SE1.100.150.40.4.51D.B	4.0	96048113	4,621	96177650	5,492	96177694	5,978	96090995
SE1.100.150.55.4.51D.B	5.5	96048129	5,250	96177651	6,220	96177695	6,720	96090995
SE1.100.150.75.4.51D.B	7.5	96048143	5,897	96177652	6,917	96177696	7,485	96090995

Pump descriptions ending in 50B and 50D are for DOL starting
With Direct On Line starting we use 7 x 1.5 mm² core motor cable.

Pump descriptions ending in 51D are for Y/D starting
With Star/Delta starting we use 10 x 1.5 mm² core motor cable.

Accessories for SE1 Pumps as above are listed on page 32.

ELECTRIC MOTOR
400V 3ph 50Hz
IP68 Enclosure
Class F insulation

The above models are available as Sensor Versions for monitoring temperature, water in oil, stator insulation resistance and moisture in motor.
Grundfos IO 113 sensor module is not included with the pump. Please consult Sales Office for more information.



CATEGORY 3 - SEV SEWAGE AND WASTE WATER PUMPS

SEV VORTEX WASTE WATER & SEWAGE PUMP (WET WELL & DRY WELL APPLICATIONS)

SEV

		Non ATEX		Sensor Version Non ATEX		Sensor Version ATEX		
Model	P2 (kW)	Product Code	£	Product Code	£	Product Code	£	Auto Coupling (not included)
400V 3ph 50Hz								
Vortex Impeller - 65mm Solids Handling - DN 65 Discharge								
SEV.65.65.22.2.50D	2.20	96047697	2,578	96177653	3,222	96177697	3,571	96090992
SEV.65.65.30.2.50D	3.00	96047713	2,793	96177654	3,436	96177698	3,814	96090992
SEV.65.65.40.2.51D	4.00	96047729	3,437	96177655	4,080	96177699	4,528	96090992
Vortex Impeller - 65mm Solids Handling - DN 80 Discharge								
SEV.65.80.22.2.50D	2.20	96048169	2,622	96177656	3,265	96177700	3,609	96090993
SEV.65.80.30.2.50D	3.00	96048185	2,836	96177657	3,479	96177701	3,855	96090993
SEV.65.80.40.2.51D	4.00	96048201	3,482	96177658	4,125	96177702	4,573	96090993
Vortex Impeller - 80mm Solids Handling - DN 80 Discharge								
SEV.80.80.11.4.50D	1.10	96047745	2,651	96177659	3,201	96177703	3,424	96090993
SEV.80.80.13.4.50D	1.30	96047757	2,696	96177660	3,246	96177704	3,469	96090993
SEV.80.80.15.4.50D	1.50	96047769	2,731	96177661	3,281	96177705	3,524	96090993
SEV.80.80.22.4.50D	2.20	96047781	2,781	96177662	3,300	96177706	3,607	96090993
SEV.80.80.40.4.51D	4.00	96047797	3,161	96177663	3,710	96177707	4,266	96090993
SEV.80.80.40.2.51D	4.00	96047829	3,809	96177664	4,359	96177708	4,508	96090993
SEV.80.80.60.2.51D	6.00	96047845	4,129	96177665	4,679	96177709	5,167	96090993
SEV.80.80.75.2.51D	7.50	96047861	5,233	96177666	5,783	96177710	6,342	96090993
SEV.80.80.92.2.51D	9.20	96047207	5,498	96177667	6,048	96177711	6,546	96090993
SEV.80.80.110.2.51D	11.00	96047877	5,510	96177668	6,060	96177712	6,453	96090993
Vortex Impeller - 80mm Solids Handling - DN 100 Discharge								
SEV.80.100.11.4.50D	1.10	96780674	2,697	96780694	3,245	96780734	3,468	96090994
SEV.80.100.13.4.50D	1.30	96780676	2,742	96780696	3,290	96780736	3,515	96090994
SEV.80.100.15.4.50D	1.50	96780678	2,777	96780698	3,326	96780738	3,569	96090994
SEV.80.100.22.4.50D	2.20	96780680	2,827	96780700	3,375	96780740	3,652	96090994
SEV.80.100.40.4.51D	4.00	96780682	3,207	96780702	3,756	96780742	4,311	96090994
SEV.80.100.40.2.51D	4.00	96780684	3,855	96780704	4,404	96780744	4,521	96090994
SEV.80.100.60.2.51D	6.00	96780686	4,175	96780706	4,724	96780746	5,212	96090994
SEV.80.100.75.2.51D	7.50	96780688	5,279	96780708	5,828	96780748	6,387	96090994
SEV.80.100.92.2.51D	9.20	96780690	5,544	96780710	6,093	96780750	6,589	96090994
SEV.80.100.110.2.51D	11.00	96780692	5,556	96780712	6,105	96780752	6,498	96090994
Vortex Impeller - 100mm Solids Handling - DN 100 Discharge								
SEV.100.100.30.4.50D	3.00	96047893	3,530	96177669	4,079	96177713	4,513	96090994
SEV.100.100.40.4.51D	4.00	96047925	3,764	96177670	4,314	96177714	4,769	96090994
SEV.100.100.55.4.51D	5.50	96047941	4,517	96177671	5,067	96177715	5,486	96090994
SEV.100.100.75.4.51D	7.50	96047957	5,479	96177672	6,029	96177716	6,513	96090994

Pump descriptions ending in 50D are for DOL starting
With Direct On Line starting we use 7 x 1.5 mm² core motor cable.

Pump descriptions ending in 51D are for Y/D starting
With Star/Delta starting we use 10 x 1.5 mm² core motor cable.

Accessories for SEV Pumps as above are listed on page 32.

ELECTRIC MOTOR
400V 3ph 50Hz
IP68 Enclosure
Class F insulation

The above models are available as Sensor Versions for monitoring temperature, water in oil, stator insulation resistance and moisture in motor.
Grundfos IO 113 sensor module is not included with the pump. Please consult Sales Office for more information.



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

All SE1/SEV pumps can be provided in the following installations.

Item Description	£	Product Code
SUBMERGED INSTALLATION [BASEPLATE]		
Auto coupling system complete with guideclaw, baseplate and UGRH (DN65 Pump > DN80 Pipe Connection)	465	96102238
Auto coupling system complete with guideclaw, baseplate and UGRH (DN65 Pump > DN65 Pipe Connection)	407	96090992
Auto coupling system complete with guideclaw, baseplate and UGRH (DN80 Pump > DN80 Pipe Connection)	466	96090993
Auto coupling system complete with guideclaw, baseplate and UGRH (DN100 Pump > DN100 Pipe Connection)	768	96090994
Auto coupling system complete with guideclaw, baseplate and UGRH (DN150 Pump > DN150 Pipe Connection)	1,172	96090995
SUBMERGED INSTALLATION [FREE STANDING]		
Ring stand with flanged 90 degree elbow and hose connection (DN65/DN65/2 1/2")	207	96102253
Ring stand with flanged 90 degree elbow and hose connection (DN80/DN80/3")	222	96102254
Ring stand with flanged 90 degree elbow and hose connection (DN100/DN100/4")	259	96102255
Ring stand with flanged 90 degree elbow and hose connection (DN150/DN150/6" galvanized steel)	1,501	96102256
VERTICAL DRY INSTALLATION (SE1 & SEV ONLY - SL1 & SLV NOT SUITABLE FOR DRYWELL MOUNTING)		
Base stand for vertical dry installation (Pump Suction Flange DN65)	623	96102257
Base stand for vertical dry installation (Pump Suction Flange DN80)	795	96102258
Base stand for vertical dry installation (Pump Suction Flange DN100)	1,230	96102259
Base stand for vertical dry installation (Pump Suction Flange DN150)	1,447	96102260
HORIZONTAL DRY INSTALLATION (SE1 & SEV ONLY - SL1 & SLV NOT SUITABLE FOR DRYWELL MOUNTING)		
Brackets for horizontal dry installation (Pump Suction Flange DN65 for 2.2 - 3kw, 2 pole)	288	96102261
Brackets for horizontal dry installation (Pump Suction Flange DN65 for 4kw, 2 pole)	290	96102262
Brackets for horizontal dry installation (Pump Suction Flange DN80 for 2.2 - 3kw, 2 pole)	293	96101912
Brackets for horizontal dry installation (Pump Suction Flange DN80 for 1.1 - 2.2kw, 4 pole)	293	96101912
Brackets for horizontal dry installation (Pump Suction Flange DN80 for 4 - 7.5kw, 2 pole)	295	96102200
Brackets for horizontal dry installation (Pump Suction Flange DN80 for 4kw, 4 pole)	295	96102200
Brackets for horizontal dry installation (Pump Suction Flange DN80 for 9.2 - 11kw, 2 pole)	259	96102386
Brackets for horizontal dry installation (Pump Suction Flange DN100 for 1.5 - 2.2kw, 4 pole)	314	96102201
Brackets for horizontal dry installation (Pump Suction Flange DN100 for 3 - 5.5kw, 4 pole)	316	96101917
Brackets for horizontal dry installation (Pump Suction Flange DN100 for 7.5kw, 4 pole)	285	96102202
Brackets for horizontal dry installation (Pump Suction Flange DN150 for 4 - 5.5kw, 4 pole)	525	96102263
Brackets for horizontal dry installation (Pump Suction Flange DN150 for 7.5kw, 4 pole)	555	96102250
SL/SE IO113 MODULE INTERFACE TO WATER IN OIL (WIO) SENSOR AS INCLUDED IN SENSOR VERSIONS		
IO 113 Module used to interface WIO sensor		SL/SE
Standard Variant	24 VAC/VDC	722
With communication module	24 VAC/VDC	837
		98097391
		98711370



Vertical mounting with ring stand & 90 degree elbow



Vertical mounting with stand & 90 degree elbow



Autocoupling, guideclaw, baseplate & upper guide rail holder (not pictured)



Horizontal installation with mounting brackets

CATEGORY 3 - WASTE WATER ANCILLIARY ITEMS

STEEL GUIDE RAILS

Model	ID	OD	Nominal Length	£	Product Code
Galvanised Guide Rail					
Rail Galv 1"	25 mm	33.7 mm	3.2 m	99	99314687
Rail Galv 1 1/2"	40 mm	48.3 mm	3.2 m	132	99314688
Rail Galv 2"	50 mm	60.3 mm	3.2 m	186	99314690
Rail Galv 2 1/2"	65 mm	76.1 mm	3.2 m	260	99314691
Rail Galv 3"	80 mm	88.9 mm	3.2 m	357	99314692
Stainless Guide Rail					
Rail 316 S/Steel 1"	25 mm	33.4 mm	3 m	267	99327897
Rail 316 S/Steel 1 1/2"	40 mm	48.3 mm	3 m	280	99327900
Rail 316 S/Steel 2"	50 mm	60.3 mm	3 m	295	99327901
Rail 316 S/Steel 2 1/2"	65 mm	73 mm	3 m	283	99327902
Rail 316 S/Steel 3"	80 mm	88.9 mm	3 m	497	99327913
Intermediate Guide Rail Holder					
To suit					
IGRH DN40, EN1.4308, cpl.	1" rails			48	96825111
IGRH DN65, EN1.4408, cpl.	1 1/2" rails			90	96825119
IGRH DN80, EN1.4408, cpl.	1 1/2" rails			91	96825142
IGRH DN100, EN1.4408, cpl.	2" rails			122	96825161
IGRH DN125/150 EN1.4408, cpl.	3" rails			183	96829331

CHAIN AND SHACKLE

Lifting chain with shackle 320kg Stainless Steel	3 m	82	98989664
Lifting chain with shackle 320kg Stainless Steel	6 m	126	98989668
Lifting chain with shackle 320kg Stainless Steel	10 m	185	98989672
Lifting chain with shackle 500kg Stainless Steel	3 m	127	98538175
Lifting chain with shackle 500kg Stainless Steel	6 m	205	98538177
Lifting chain with shackle 500kg Stainless Steel	10 m	290	98538179
Lifting chain with shackle 800kg Stainless Steel	4 m	340	98425797
Lifting chain with shackle 800kg Stainless Steel	6 m	432	98425798
Lifting chain with shackle 800kg Stainless Steel	10 m	582	98425800
Lifting chain with shackle 800kg - GALVANISED	4 m	164	98425760
Lifting chain with shackle 800kg - GALVANISED	6 m	218	98425781
Lifting chain with shackle 800kg - GALVANISED	10 m	330	98425783

Model	£	Product Code	Model	£	Product Code
FLOAT SWITCH LEVEL CONTROLS - MERCURY FREE					
Socket Cover Plate					
2 Float switch kit	377	62500013	Single float switch - 10m cable*	149	96003332
3 Float switch kit	602	62500014	Single float switch - 20m cable*	201	96003695
4 Float switch kit	757	62500015	ATEX float switch - 10m cable*	207	96003421
			ATEX float switch - 20m cable*	259	96003536
			* without accessories		
3 Float switch kit for ATEX	795	62500017			
4 Float switch kit for ATEX	1,020	62500018			
LC-EX4 intrinsically safe Zener barrier for ATEX Environments	760	96440300	Float switch SLC 10E	132	98664108
			Float switch SLC 20E	168	98664110

CATEGORY 3 - PREFABRICATED PUMPING STATIONS

PREFABRICATED PUMPING STATIONS

Formerly known as PUST10..

1200mm Nominal diameter

Tank Module	Depth (mm)	Pump Type	Solids Size (mm)	No. Pumps	£	Product code
PS.R.12.20.S.GC.SS50.A50.SEG	2000	SEG	Grinder	1	2,250	96235302
PS.R.12.25.S.GC.SS50.A50.SEG	2500	SEG	Grinder	1	2,582	96235303
PS.R.12.20.S.GC.SS50.A50.APB	2000	AP50B	50	1	2,250	96235308
PS.R.12.25.S.GC.SS50.A50.APB	2500	AP50B	50	1	2,582	96235309
PS.R.12.20.S.GC.SS65.A65.DP/SL	2000	DP10.65/SLV/SL1*	up to 65	1	2,992	96235320
PS.R.12.25.S.GC.SS65.A65.DP/SL	2500	DP10.65/SLV/SL1*	up to 65	1	3,558	96235321
PS.R.12.20.D.GC.SS50.A50.SEG	2000	SEG	Grinder	2	3,599	96235322
PS.R.12.25.D.GC.SS50.A50.SEG	2500	SEG	Grinder	2	3,960	96235323
PS.R.12.20.D.GC.SS50.A50.APB	2000	AP50B	50	2	3,599	96235326
PS.R.12.25.D.GC.SS50.A50.APB	2500	AP50B	50	2	3,960	96235327
PS.R.12.20.D.GC.SS65.A65.DP/SL	2000	DP10.65/SLV*	up to 65	2	5,569	96235334
PS.R.12.25.D.GC.SS65.A65.DP/SL	2500	DP10.65/SLV*	up to 65	2	6,153	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)

LEVEL CONTROL SYSTEM FOR LC108 OR LCD108

Float Switch System	No. Floats	£	Product code
LC108 1500mm Depth	2	280	96905147
LC108 2000mm Depth	2	300	96905148
LC108 2500mm Depth	2	321	96905149
LC/LCD108 1500mm Depth	3	372	96905151
LC/LCD108 2000mm Depth	3	391	96905162
LC/LCD108 2500mm Depth	3	413	96905163
LC/LCD108 2000mm Depth	4	483	96905172
LC/LCD108 2500mm Depth	4	504	96905173

PANELS

Single Pump Panel	Phase	Amps	Capacitor [µF] Run / Start	£	Product code
LC108.230.1.6	1	4-6	- / -	1,761	97501268
LC108.230.1.6 30	1	4-6	30 / -	1,515	97501269
LC108.230.1.6 30/60	1	4-6	30 / 60	POA	97501270
LC108.230.1.6 30/150	1	4-6	30 / 150	1,657	97501281
LC108.230.1.10	1	6-10	- / -	1,528	97501286
LC108.230.1.10 30	1	6-10	30 / -	1,781	97501287
LC108.230.1.10 30/60	1	6-10	30 / 60	1,637	97501288
LC108.230.1.10 30/150	1	6-10	30 / 150	1,678	97501289

Single Pump Panel	Phase	Amps	£	Product code
LC108.415.3.2,4	3	1.6-2.4	1,852	97501310
LC108.415.3.4	3	2.4-4	1,852	97501312
LC108.415.3.6	3	4-6	1,852	97501314
LC108.415.3.10	3	6-10	1,619	97501316

Dual Pump Panel	Phase	Amps	Capacitor [µF] Run / Start	£	Product code
LCD108.230.1.6	1	4-6	- / -	1,967	97501294
LCD108.230.1.6 30	1	4-6	30 / -	1,795	97501295
LCD108.230.1.6 30/60	1	4-6	30 / 60	1,956	97501296
LCD108.230.1.6 30/150	1	4-6	30 / 150	1,997	97501297
LCD108.230.1.10	1	6-10	- / -	1,967	97501302
LCD108.230.1.6 30	1	6-10	30 / -	1,795	97501303
LCD108.230.1.10 30/60	1	6-10	30 / 60	1,956	97501304
LCD108.230.1.10 30/150	1	6-10	30 / 150	1,945	97501305

Dual Pump Panel	Phase	Amps	£	Product code
LCD108.415.3.2,4	3	1.6-2.4	2,023	97501318
LCD108.415.3.4	3	2.4-4	2,029	97501320
LCD108.415.3.6	3	4-6	2,031	97501322
LCD108.415.3.10	3	6-10	2,016	97501324

Tank Module includes: tank, stainless steel pipework, guide rails, auto-coupling, UGRH, cover, chain.

Note : PUMPS ARE NOT INCLUDED IN THE PRICE.

OPTIONS : For panel kiosks, beacons and panels with SMS dialler option, please contact the Sales Office for details.

CATEGORY 3 - MULTILIFT M/MD SEWAGE LIFTING STATIONS (PREVIOUSLY APL SERIES)

M/MD WASTE WATER AND SEWAGE LIFTING STATIONS - DRY INSTALLED

MD

Electric Motor			
Model (With Starter)	kW - P2	£	Product Code
240V 1Ph 50Hz			
M.12.1.4	1.20	3,654	97901064
M.15.1.4	1.50	4,006	97901066
MD.15.1.4	1.50	8,422	97901086
415V 3Ph 50Hz			
M.12.3.4	1.20	3,654	97901065
M.15.3.4	1.50	4,006	97901067
M.22.3.4	2.20	4,277	97901068
M.24.3.2	2.40	4,547	97901070
M.32.3.2	3.20	5,007	97901072
MD.15.3.4	1.50	8,253	97901087
MD.22.3.4	2.20	8,963	97901088
MD.24.3.2	2.40	9,403	97901090
MD.32.3.2	3.20	9,808	97901092

Please note: Additional accessories ARE required. A full range of accessories can be found in the Multilift M/MD Lifting Station brochure.

Diaphragm pump 2" for M/MD	301	96003721
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ELECTRIC MOTOR
 230V 1ph 50Hz DOL
 400V 3ph 50Hz DOL
 IP68 Enclosure
 Class F insulation



AMD - DIRECT DRIVEN SUBMERSIBLE MIXER WITH 4 POLES MOTOR



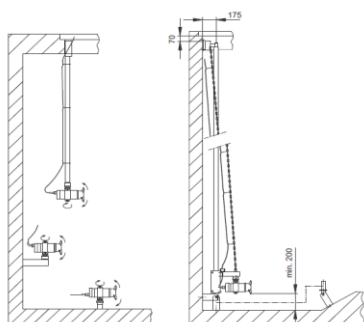
Model	Axial Thrust	Rated Power P1	400V 3ph 50Hz	
			£	Product Code
AMD.05.16.1450.T.5.0B.A	60N	0.56 kW	1,505	99056116
AMD.07.18.1430.T.5.0B.A	95N	0.76 kW	1,897	99018155

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



TM06 6343 1116 - TM06 6344 1116

Item	Material	£	Product Code
Fixation bracket for suspended mounting	1.4401/316	410	95040132
Tube for suspended mounting, 2" thread, 3m	1.4401/316	1,061	95040131
Fixation bracket for wall mounting, 2" thread	1.4401/316	407	96115291
Fixation base for floor mounting, 2" thread	1.4401/316	319	96115292
Motor bracket for column profile mounting	1.4401/316	897	96115295
Column profile tube 60x60x3mm*	1.4301/304	115	96489420
Column profile tube 60x60x3mm*	1.4404/316L	216	96489421

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

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	55
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	55
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

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).

Notes



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