

Grundfos Water, Waste Water Products

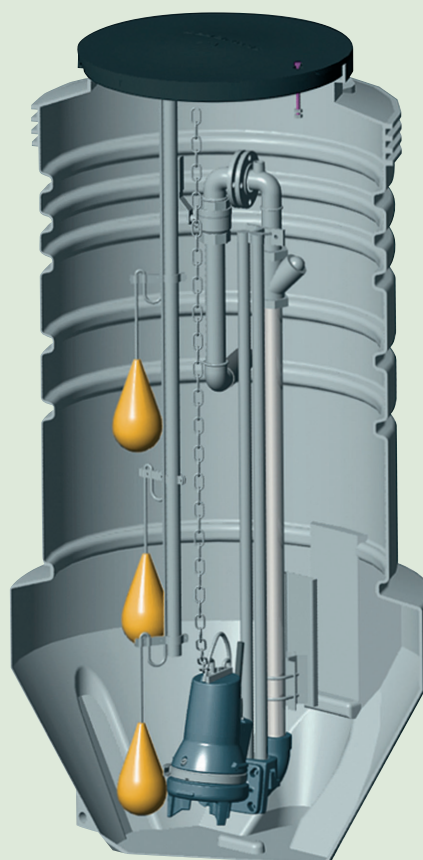
Price List February 2022

Category 3A



PRODUCTS INCLUDED:

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



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

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

MINIMUM ORDER VALUE

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

EXPRESS DELIVERY OPTIONS;

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

- CR(I)(E), CRN(E) Vertical Multistage
- Non-stock SP/SPA models (with or without drop cable cut in 5 metre increments. Please note; resin cable joint will take 24 hours to set)
- Order must be received electronically by **10.45am** – despatch same day, **delivery by Express Carrier Service** – UK (*note restrictions apply)
£80.00 NET (PER ITEM)

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

- ALPHA, UPS, UPN, UPS3/UPM Circulators
- Magna (D) Glandless Circulators
- UP/UPS/Magna Replacement Heads/Terminal boxes
- TPE(D), NB(E) Glanded
- CM, CME Horizontal Multistage
- JP, MQ and Tanks/Vessels (up to 500 Litre)
- CMB(E), Boosters, Scala
- AP, KP, CC, SL1, SLV, Unilift, Sololift
- SQ, SQE, SB(A), SP2A, 3A & 5A >1.5kW (Excluding pumps with cable fitted as well as SP longer than 2.4 metres)
- Motors, Flanges & Unions, Pump Components, Chamber Stacks
- Order must be received electronically before **13:30pm** – despatch same day, **delivery by Express Carrier Service** – UK (*note restrictions apply)
FIRST ITEM - £60.00 NET & ADDITIONAL ITEMS £25.00 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 - £50.00 NET & ADDITIONAL ITEMS £25.00 EACH (PER ORDER)

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

SPARES STANDARD DELIVERY CHARGE

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

PRODUCT RETURNS FEE

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

Exclusions to Product Returns apply;

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

STORAGE CHARGE

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

WARRANTY PERIOD

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

SERVICE AND COMMISSIONING

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

ORDER TRACKING AND PROOF OF DELIVERY

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

INDEX

	Page
5" SUBMERSIBLE WELL PUMPS	4
3" SUBMERSIBLE BOREHOLE PUMPS	5
SQ FLEX RENEWABLE ENERGY SUBMERSIBLE PUMPS	6
SUBMERSIBLE BOREHOLE	7
	8
	9
	10
	11
	12
	13
	14
SUBMERSIBLE BOREHOLE ACCESSORIES	20
	21
DRAINAGE & EFFLUENT SEWAGE SUBMERSIBLE	22
	23
WASTE WATER & SEWAGE SUBMERSIBLE	24
	25
	26
	27
	28
	29
	30
	31
	32
	33
	34
	35
	36
WASTE WATER ANCILLARY ITEMS	37
PUMPING AND LIFTING STATIONS	38
DIRECT DRIVEN SUBMERSIBLE MIXER	39
LEVEL CONTROLLERS	39
	42
	43
	44
DOCUMENTATION & TESTING	45
CONDITIONS OF SALE	

CATEGORY 3 - 5" SUBMERSIBLE PUMPS

Model	P1 kW	Float switch	1x220-240V 50Hz	
			£	Product Code
SB WITH INTEGRATED SUCTION STRAINER				
SB 3-25 M	0.57	NO	392	97686698
SB 3-25 A	0.57	YES	408	97686699
SB 3-35 M	0.80	NO	423	97686700
SB 3-35 A	0.80	YES	438	97686701
SB 3-45 M	1.05	NO	465	97686704
SB 3-45 A	1.05	YES	483	97686705
SB WITH FLOATING SUCTION STRAINER				
SB 3-35 MW	0.80	NO	541	97686702
SB 3-35 AW	0.80	YES	558	97686703
SB 3-45 MW	1.05	NO	569	97686706
SB 3-45 AW	1.05	YES	589	97686707
SBA WITH INTEGRATED SUCTION STRAINER				
SBA 3-35 M	0.80	NO	523	97896285
SBA 3-35 A	0.80	YES	553	97896286
SBA 3-45 M	1.05	NO	551	97896289
SBA 3-45 A	1.05	YES	581	97896290
SBA WITH FLOATING SUCTION STRAINER				
SBA 3-35 MW	0.80	NO	649	97896287
SBA 3-35 AW	0.80	YES	679	97896288
SBA 3-45 MW	1.05	NO	677	97896311
SBA 3-45 AW	1.05	YES	707	97896312

SB - without control

SBA - automatic with integrated control unit

PUMP VERSION

Integrated suction strainer with float switch

Integrated suction strainer without float switch

Side inlet and floating strainer with float switch

Side inlet and floating strainer without float switch

ELECTRIC MOTOR

220-240V / 1ph / 50Hz

IP68 enclosure

All models with 15m cable with Schuko plug

Temperature range: 0-40°C

Model

A

M

AW

MW



CATEGORY 3 - SQ/SQE 3" SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED ELECTRIC MOTOR

1x200-240V 50Hz/60Hz			1x200-240V 50Hz/60Hz			P2	
	£	Product Code		£	Product Code	kW	Discharge
SQ 1-35	1,008	96510178	SQE 1-35	1,026	96510071	0.70	Rp 1"1/4
SQ 1-50	1,088	96510179	SQE 1-50	1,114	96510141	0.70	Rp 1"1/4
SQ 1-65	1,172	96510190	SQE 1-65	1,197	96510142	0.70	Rp 1"1/4
SQ 1-80	1,414	96510191	SQE 1-80	1,443	96510143	1.15	Rp 1"1/4
SQ 1-95	1,472	96510192	SQE 1-95	1,503	96510144	1.15	Rp 1"1/4
SQ 1-110	1,531	96510193	SQE 1-110	1,554	96510145	1.15	Rp 1"1/4
SQ 1-125	1,825	96510194	SQE 1-125	1,863	96510146	1.68	Rp 1"1/4
SQ 1-140	1,885	96510195	SQE 1-140	1,923	96510147	1.68	Rp 1"1/4
SQ 1-155	1,943	96510196	SQE 1-155	1,984	96510148	1.85	Rp 1"1/4
SQ 2-35	1,041	96510198	SQE 2-35	1,066	96510150	0.70	Rp 1"1/4
SQ 2-55	1,106	96510199	SQE 2-55	1,130	96510151	0.70	Rp 1"1/4
SQ 2-70	1,225	96510200	SQE 2-70	1,251	96510152	1.15	Rp 1"1/4
SQ 2-85	1,371	96510201	SQE 2-85	1,399	96510153	1.15	Rp 1"1/4
SQ 2-100	1,701	96510202	SQE 2-100	1,736	96510154	1.68	Rp 1"1/4
SQ 2-115	1,762	96510203	SQE 2-115	1,797	96510155	1.85	Rp 1"1/4
SQ 3-30	1,001	96510204	SQE 3-30	1,022	96510156	0.70	Rp 1"1/4
SQ 3-40	1,059	96510205	SQE 3-40	1,082	96510157	0.70	Rp 1"1/4
SQ 3-55	1,225	96510206	SQE 3-55	1,251	96510158	1.15	Rp 1"1/4
SQ 3-65	1,371	96510207	SQE 3-65	1,399	96510159	1.15	Rp 1"1/4
SQ 3-80	1,701	96510208	SQE 3-80	1,736	96510160	1.68	Rp 1"1/4
SQ 3-95	1,762	96510209	SQE 3-95	1,797	96510161	1.68	Rp 1"1/4
SQ 3-105	1,820	96510210	SQE 3-105	1,857	96510162	1.85	Rp 1"1/4
SQ 5-15	990	96510211	SQE 5-15	1,010	96510163	0.70	Rp 1" 1/2
SQ 5-25	1,012	96510212	SQE 5-25	1,053	96510164	0.70	Rp 1" 1/2
SQ 5-35	1,225	96510213	SQE 5-35	1,251	96510165	1.15	Rp 1" 1/2
SQ 5-50	1,371	96510214	SQE 5-50	1,399	96510166	1.15	Rp 1" 1/2
SQ 5-60	1,762	96510215	SQE 5-60	1,797	96510167	1.68	Rp 1" 1/2
SQ 5-70	1,820	96510217	SQE 5-70	1,857	96510168	1.85	Rp 1" 1/2
SQ 7-15	1,355	96510218	SQE 7-15	1,382	96510169	0.70	Rp 1" 1/2
SQ 7-30	1,472	96510219	SQE 7-30	1,503	96510170	1.15	Rp 1" 1/2
SQ 7-40	1,885	96510220	SQE 7-40	1,923	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	1x220-240V 50Hz/60Hz	
		£	Product Code
PM1 15	cut in 1.5 bar, cut out at no flow.	206	96848670
PM1 22	cut in 2.2 bar, cut out at no flow.	206	96848701
PM2	cut in adjustable between 1.5 and 5.5 bar, cut out at no flow.	238	96848738

IP65

Max liquid temperature: 40°C

Max ambient temperature: 50°C



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

ACCESSORIES FOR SQ/SQE PUMPS

SQ Accessories	£	Product Code
Pressure gauge 0-10 bar, 63mm dia, 1/4" BSP (liquid filled)	56	00ID8048
Flow sleeve Ø88mm in 304 stainless steel, strainer & horizontal supports	401	98148594

Submersible round drop cable

Drop cable 3 x 1.5mm ² per metre	15	00ID7946
Drop cable 3 x 2.5mm ² per metre	15	00ID7947
Drop cable 3 x 4.0mm ² per metre	13	00ID7948
Drop cable 3 x 6.0mm ² per metre	17	00RM4098

Extra joints supplied loose for fitting by others.

Heat shrink cable joint, 3 x 1.5-6.0mm ²	45	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)	439	96436753
CU300 Control Box (Commercial)	505	96422775
Pressure Sensor Kit 0-6 bar, 1/2" BSP connection and 2m screened cable	274	405168
SPP Potentiometer	269	625468
Level Sensor with 30m Cable	4,572	96591275
Level Sensor with 65m Cable	4,570	96037490

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

SQE CONSTANT PRESSURE PACK

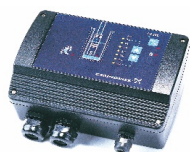
	P2 kW	Drop cable	£	Product Code
SQE 2-55 (CPP)	0.70	3x1.5mm ² 40m	2,318	96524505
SQE 2-85 (CPP)	1.15	3x1.5mm ² 60m	2,873	96524506
SQE 3-65 (CPP)	1.15	3x1.5mm ² 40m	2,578	96524501
SQE 5-70 (CPP)	1.85	3x1.5mm ² 40m	2,807	96524503

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)	925	96524504

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



CU 301



CU 300



SQE CONSTANT PRESSURE PACK

CATEGORY 3 - SQ FLEX RENEWABLE ENERGY SUBMERSIBLE PUMPS

SQF PUMPS IN 304 STAINLESS STEEL

Model	£	Product Code	Model	£	Product Code	Discharge	Max pump diameter
SQF 0.6-2	2,114	95027324	SQF 0.6-2 N	2,218	95027325	Rp 1"1/4	74mm
SQF 0.6-3	2,114	95027326	SQF 0.6-3 N	2,218	95027327	Rp 1"1/4	74mm
SQF 1-30	1,404	98842452	SQF 1-30 N	1,501	98842517	Rp 1"1/4	74mm
SQF 1.2-2	2,114	95027328	SQF 1.2-2 N	2,218	95027329	Rp 1"1/4	74mm
SQF 1.2-3	2,112	96834838	SQF 1.2-3 N	2,217	96834839	Rp 1"1/4	74mm
SQF 2.5-2	2,114	95027330	SQF 2.5-2 N	2,218	95027331	Rp 1"1/4	74mm
SQF 3A-10	2,067	95027336	SQF 3A-10 N	2,170	95027337	Rp 1"1/4	101mm
SQF 5A-3	2,067	95027338	SQF 5A-3 N	2,170	95027339	Rp 1"1/2	101mm
SQF 5A-7	2,067	95027342	SQF 5A-7 N	2,170	95027343	Rp 1"1/2	101mm
SQF 7-4	2,065	98979253	SQF 7-4 N	2,233	98994936	Rp 1"1/2	101mm
SQF 9-3	2,065	98978826	SQF 9-3 N	2,233	98994667	Rp 2"	101mm
SQF 14-3	2,065	98979255	SQF 14-3 N	2,233	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	115	97907253
IO 101 (115V) Switch box	Max 225 VDC	705	96481502
IO 101 (230V) Switch box	Max 225 VDC	705	96475074
CU 200 control unit	30-300 VDC	712	96625360

SOLAR MODULES

		£	Product Code
Array-to-controller wire kit (10m)	1 unit per SQ Flex system	67	98257868
Array-to-array wire kit **		59	98257892

* Minimum quantities apply

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

DROP CABLE

	£	Product Code
Drop cable 3 x 2.5mm per metre	15	00ID7947
Drop cable 3 x 4.0mm per metre	13	00ID7948
Drop cable 3 x 6.0mm per metre	17	00RM4098

CABLE JOINTS

	£	Product Code
Extra joints supplied loose for fitting by others		
Heat shrink cable joint, 3 x 2.5-6.0mm2	45	96021473

LEVEL SWITCH

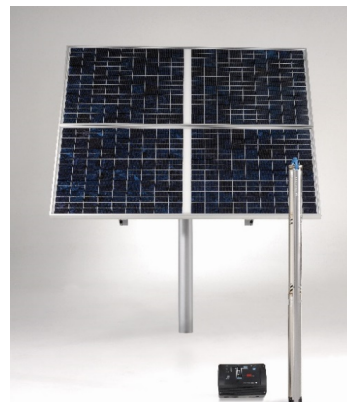
	£	Product Code
Level switch for SQ Flex with 3m cable	98	16650

FLOW SLEEVES

	£	Product Code
For SQFlex 3" standard version (EN 1.4301/AISI 304)	426	98253259
For SQFlex 4" standard version (EN 1.4301/AISI 304)	365	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	831	08002E09	817	08001K09
SP1A-14	0.37	Rp 1"1/4	MS 402	924	08002E14	910	08001K14
SP1A-18	0.55	Rp 1"1/4	MS 402	932	08002E18	971	08001K18
SP1A-21	0.55	Rp 1"1/4	MS 402	1,045	08002E21	1,012	08001K21
SP1A-28	0.75	Rp 1"1/4	MS 402	1,170	08002E28	1,135	08001K28
SP1A-36	1.1	Rp 1"1/4	MS 402	1,796	08102E36	2,148	08101K36
SP1A-42	1.1	Rp 1"1/4	MS 402	2,419	08102E42	2,354	08101K42
SP1A-50	1.5	Rp 1"1/4	MS 402	2,795	08102E50	2,729	08101K50
SP1A-57	1.5	Rp 1"1/4	MS 402	3,032	08102E57	2,966	08101K57
SP2A-6	0.37	Rp 1"1/4	MS 402	808	09002E06	794	09001K06
SP2A-9	0.37	Rp 1"1/4	MS 402	849	09002E09	835	09001K09
SP2A-13	0.55	Rp 1"1/4	MS 402	954	09002E13	920	09001K13
SP2A-18	0.75	Rp 1"1/4	MS 402	1,049	09002E18	1,014	09001K18
SP2A-23	1.1	Rp 1"1/4	MS 402	1,179	09002E23	1,146	09001K23
SP2A-28	1.5	Rp 1"1/4	MS 402	1,353	09002E28	1,287	09001K28
SP2A-33	1.5	Rp 1"1/4	MS 402	1,421	09002E33	1,355	09001K33
SP2A-40	2.2	Rp 1"1/4	MS 4000 / 402	3,086	09102E40	2,517	09101K40
SP2A-48	2.2	Rp 1"1/4	MS 4000 / 402	3,359	09102E48	2,823	09101K48
SP2A-55	3	Rp 1"1/4	MS4000	-	-	3,410	09101K55
SP2A-65	3	Rp 1"1/4	MS4000	-	-	3,853	09101K65
SP2A-75	4	R 1"1/4	MS4000	-	-	7,644	09301K75
SP2A-90	4	R 1"1/4	MS4000	-	-	8,670	09301K90
SP3A-6	0.37	Rp 1"1/4	MS 402	903	10002E06	882	10001K06
SP3A-9	0.55	Rp 1"1/4	MS 402	995	10002E09	932	10001K09
SP3A-12	0.75	Rp 1"1/4	MS 402	1,070	10002E12	1,031	10001K12
SP3A-15	1.1	Rp 1"1/4	MS 402	1,181	10002E15	1,145	10001K15
SP3A-18	1.1	Rp 1"1/4	MS 402	1,225	10002E18	1,189	10001K18
SP3A-22	1.5	Rp 1"1/4	MS 402	1,400	10002E22	1,325	10001K22
SP3A-25	1.5	Rp 1"1/4	MS 402	1,444	10002E25	1,372	10001K25
SP3A-29	2.2	Rp 1"1/4	MS 4000 / 402	2,139	10002E29	1,558	10001K29
SP3A-33	2.2	Rp 1"1/4	MS 4000 / 402	2,262	10002E33	1,681	10001K33
SP3A-39	3	Rp 1"1/4	MS4000	-	-	3,106	10101K39
SP3A-45	3	Rp 1"1/4	MS4000	-	-	3,329	10101K45
SP3A-52	4	Rp 1"1/4	MS4000	-	-	3,732	10101K52
SP3A-60	4	Rp 1"1/4	MS4000	-	-	4,138	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	886	05002E04	872	05001K04
SP5A-6	0.55	Rp 1" 1/2	MS 402	943	05002E06	908	05001K06
SP5A-8	0.75	Rp 1" 1/2	MS 402	1,030	05002E08	992	05001K08
SP5A-12	1.1	Rp 1" 1/2	MS 402	1,155	05002E12	1,120	05001K12
SP5A-17	1.5	Rp 1" 1/2	MS 402	1,345	05002E17	1,270	05001K17
SP5A-21	2.2	Rp 1" 1/2	MS 4000 / 402	2,041	05002E21	1,456	05001K21
SP5A-25	2.2	Rp 1" 1/2	MS 4000 / 402	2,100	05002E25	1,518	05001K25
SP5A-33	3	Rp 1" 1/2	MS4000	-	-	2,009	05001K33
SP5A-38	4	Rp 1" 1/2	MS4000	-	-	3,681	05101K38
SP5A-44	4	Rp 1" 1/2	MS4000	-	-	3,978	05101K44
SP5A-52	5.5	Rp 1" 1/2	MS4000	-	-	4,970	05171K52
SP5A-60	5.5	Rp 1" 1/2	MS4000	-	-	5,366	05171K60
SP5A-75 *	7.5	R 1" 1/2	MS 6000	-	-	10,305	5301975
SP5A-85 *	7.5	R 1" 1/2	MS 6000	-	-	11,183	5301985
SP7-3	0.55	Rp 1" 1/2	MS 402	862	98699154	862	98699178
SP7-5	0.75	Rp 1" 1/2	MS 402	1,026	98699155	1,026	98699169
SP7-8	1.1	Rp 1" 1/2	MS 402	1,247	98699156	1,247	98699179
SP7-12	1.5	Rp 1" 1/2	MS 402	1,550	98699157	1,550	98699180
SP7-17	2.2	Rp 1" 1/2	MS 4000 / 402	2,298	98699158	1,965	98699181
SP7-23	3	Rp 1" 1/2	MS 4000	-	-	2,685	98699182
SP7-27	4	Rp 1" 1/2	MS 4000	-	-	3,055	98699183
SP7-31	4	Rp 1" 1/2	MS 4000	-	-	3,284	98699184
SP7-37	5.5	Rp 1" 1/2	MS 4000	-	-	3,773	98699196
SP7-42	5.5	Rp 1" 1/2	MS 4000	-	-	4,059	98699197
SP7-51	7.5	Rp 1" 1/2	MS 4000	-	-	5,268	98699198
SP7-59	7.5	Rp 1" 1/2	MS 4000	-	-	8,656	98699199
SP7-71*	9.2	R 2"	MS 6000	-	-	10,629	98699211
SP7-86*	11	R 2"	MS 6000	-	-	12,454	98699212
SP7-100*	13	R 2"	MS 6000	-	-	14,171	98699213

* Pump in sleeve

ELECTRIC MOTOR

240V 1ph 50Hz

380-415V 3ph 50Hz

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

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

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

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

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

CONTROL BOX

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

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



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

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

P2				240V 1ph 50Hz		380-415V 3ph 50Hz	
Model	kW	Discharge	Motor	£	Product Code	£	Product Code
SP9-4	0.75	Rp 2"	MS 402	-	On request	1,081	98779736
SP9-5	1.1	Rp 2"	MS 402	1,217	98699025	1,217	98699053
SP9-8	1.5	Rp 2"	MS 402	1,547	98699026	1,547	98699054
SP9-10	2.2	Rp 2"	MS 4000 / 402	-	On request	1,848	98779739
SP9-11	2.2	Rp 2"	MS 4000 / 402	2,265	98699027	1,932	98699055
SP9-13	3	Rp 2"	MS 4000	-	-	2,476	98699056
SP9-16	3	Rp 2"	MS 4000	-	-	2,732	98699057
SP9-18	4	Rp 2"	MS 4000	-	-	3,045	98699058
SP9-21	4	Rp 2"	MS 4000	-	-	3,304	98699059
SP9-23	5.5	Rp 2"	MS 4000	-	-	3,890	98699060
SP9-25	5.5	Rp 2"	MS 4000	-	-	4,061	98699061
SP9-29	5.5	Rp 2"	MS 4000	-	-	4,401	98699062
SP9-32	7.5	Rp 2"	MS 4000	-	-	5,353	98699063
SP9-36	7.5	Rp 2"	MS 4000	-	-	5,708	98699064
SP9-40	7.5	Rp 2"	MS 4000	-	-	6,051	98699065
SP9-44	9.2	Rp 2"	MS 6000	-	-	6,992	98699072
SP9-48	9.2	Rp 2"	MS 6000	-	-	7,335	98699073
SP9-52	11	Rp 2"	MS 6000	-	-	7,755	98699074
SP9-56*	11	R 2"	MS 6000	-	-	10,840	98699075
SP9-60*	13	R 2"	MS 6000	-	-	11,453	98699076
SP9-65*	13	R 2"	MS 6000	-	-	12,067	98699077
SP9-69*	13	R 2"	MS 6000	-	-	12,559	98699078
SP9-75*	15	R 2"	MS 6000	-	-	13,458	98699079
SP9-79*	15	R 2"	MS 6000	-	-	13,984	98699080
SP9-86*	18.5	R 2"	MS 6000	-	-	15,284	98901304
SP9-93*	18.5	R 2"	MS 6000	-	-	16,143	98901305
SP11-3	0.75	Rp 2"	MS 402	1,018	98699297	1,018	98699312
SP11-5	1.10	Rp 2"	MS 402	1,252	98699298	1,252	98699313
SP11-7	1.50	Rp 2"	MS 402	1,510	98699299	1,510	98699314
SP11-11	2.20	Rp 2"	MS 4000 / 402	2,342	98699300	2,009	98699315
SP11-15	3.00	Rp 2"	MS 4000	-	-	2,757	98699316
SP11-20	4.00	Rp 2"	MS 4000	-	-	3,361	98699317
SP11-24	5.50	Rp 2"	MS 4000	-	-	3,877	98699318
SP11-27	5.50	Rp 2"	MS 4000	-	-	4,153	98900419
SP11-33	7.50	Rp 2"	MS 4000	-	-	5,400	98699320
SP11-37	7.50	Rp 2"	MS 4000	-	-	5,770	98901311
SP14-4	1.10	Rp 2"	MS 402	1,185	98699339	1,185	98699353
SP14-6	1.50	Rp 2"	MS 402	1,456	98699340	1,456	98699354
SP14-8	2.20	Rp 2"	MS 4000 / 402	2,111	98699341	1,778	98699355
SP14-11	3.00	Rp 2"	MS 4000	-	-	2,449	98699356
SP14-13	3.00	Rp 2"	MS 4000	-	-	2,653	98699357
SP14-15	4.00	Rp 2"	MS 4000	-	-	2,991	98699358
SP14-17	4.00	Rp 2"	MS 4000	-	-	3,184	98699359
SP14-20	5.50	Rp 2"	MS 4000	-	-	3,612	98699360
SP14-23	5.50	Rp 2"	MS 4000	-	-	3,905	98699361
SP14-27	7.50	Rp 2"	MS 4000	-	-	5,010	98711397
SP14-31	7.50	Rp 2"	MS 4000	-	-	5,403	98901319

* Pump in sleeve

ELECTRIC MOTOR

240V 1ph 50Hz

380-415V 3ph 50Hz

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

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

1ph motors are NOT suitable for frequency converter operation.

All 3ph motors suitable for frequency converter operation.

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

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

CONTROL BOX

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

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.

CATEGORY 3 - SP 14 AND 17 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2			240V 1ph 50Hz		380-415V 3ph 50Hz	
	kW	Discharge	Motor	£	Product Code	£	Product Code
SP17-1	0.55	Rp 2"1/2	MS 402	1,191	12A02401	1,191	12A01901
SP17-2	1.1	Rp 2"1/2	MS 402	1,432	12A02402	1,432	12A01902
SP17-3	2.2	Rp 2"1/2	MS 4000 / 402	2,076	12A02403	1,769	12A01903
SP17-4	2.2	Rp 2"1/2	MS 4000 / 402	2,220	12A02404	1,913	12A01904
SP17-5	3.0	Rp 2"1/2	MS 4000	-	-	2,491	12A01905
SP17-6	4.0	Rp 2"1/2	MS 4000	-	-	2,827	12A01906
SP17-7	4.0	Rp 2"1/2	MS 4000	-	-	2,969	12A01907
SP17-8	5.5	Rp 2"1/2	MS 4000	-	-	3,297	12A01908
SP17-9	5.5	Rp 2"1/2	MS 4000	-	-	3,441	12A01909
SP17-10	5.5	Rp 2"1/2	MS 4000	-	-	3,586	12A01910
SP17-11	7.5	Rp 2"1/2	MS 6000	-	-	4,665	12A01911
SP17-12	7.5	Rp 2"1/2	MS 6000	-	-	4,800	12A01912
SP17-13	7.5	Rp 2"1/2	MS 6000	-	-	4,933	12A01913
SP17-14	9.2	Rp 2"1/2	MS 6000	-	-	5,368	12A01914
SP17-15	9.2	Rp 2"1/2	MS 6000	-	-	5,533	12A01915
SP17-16	9.2	Rp 2"1/2	MS 6000	-	-	5,662	12A01916
SP17-17	9.2	Rp 2"1/2	MS 6000	-	-	5,785	12A01917
SP17-18	11.0	Rp 2"1/2	MS 6000	-	-	5,985	12A01918
SP17-19	11.0	Rp 2"1/2	MS 6000	-	-	6,111	12A01919
SP17-20	11.0	Rp 2"1/2	MS 6000	-	-	6,266	12A01920
SP17-21	13.0	Rp 2"1/2	MS 6000	-	-	6,635	12A01921
SP17-22	13.0	Rp 2"1/2	MS 6000	-	-	6,844	12A01922
SP17-23	13.0	Rp 2"1/2	MS 6000	-	-	6,968	12A01923
SP17-24	13.0	Rp 2"1/2	MS 6000	-	-	7,094	12A01924
SP17-25	15.0	Rp 2"1/2	MS 6000	-	-	7,366	12A01925
SP17-26	15.0	Rp 2"1/2	MS 6000	-	-	7,554	12A01926
SP17-27	15.0	Rp 2"1/2	MS 6000	-	-	7,728	12A01927
SP17-28	18.5	Rp 2"1/2	MS 6000	-	-	8,301	12A01928
SP17-29	18.5	Rp 2"1/2	MS 6000	-	-	8,418	12A01929
SP17-30	18.5	Rp 2"1/2	MS 6000	-	-	8,537	12A01930
SP17-31	18.5	Rp 2"1/2	MS 6000	-	-	8,729	12A01931
SP17-32	18.5	Rp 2"1/2	MS 6000	-	-	8,888	12A01932
SP17-33	18.5	Rp 2"1/2	MS 6000	-	-	9,007	12A01933
SP17-34	22.0	Rp 2"1/2	MS 6000	-	-	9,307	12A01934
SP17-35	22.0	Rp 2"1/2	MS 6000	-	-	9,426	12A01935
SP17-36	22.0	Rp 2"1/2	MS 6000	-	-	9,543	12A01936
SP17-37	22.0	Rp 2"1/2	MS 6000	-	-	9,660	12A01937
SP17-38	22.0	Rp 2"1/2	MS 6000	-	-	9,777	12A01938
SP17-39	22.0	Rp 2"1/2	MS 6000	-	-	9,896	12A01939
SP17-40	22.0	Rp 2"1/2	MS 6000	-	-	10,015	12A01940
SP17-43 *	26.0	R 3"	MS 6000	-	-	12,134	12A41943
SP17-45 *	26.0	R 3"	MS 6000	-	-	12,450	12A41945
SP17-48 *	26.0	R 3"	MS 6000	-	-	13,142	12A41948
SP17-51 *	30.0	R 3"	MS 6000	-	-	14,528	12A41951
SP17-53 *	30.0	R 3"	MS 6000	-	-	14,957	12A41953
SP 17-55 *	37.0	R 3"	MMS 6	-	-	17,305	12A44355
SP 17-58 *	37.0	R 3"	MMS 6	-	-	17,954	12A44358
SP 17-60 *	37.0	R 3"	MMS 6	-	-	18,387	12A44360

* Pump in sleeve

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.

ELECTRIC MOTOR

240V 1ph 50Hz

380-415V 3ph 50Hz

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

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

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

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

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

CONTROL BOX

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

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

CATEGORY 3 - SP 30 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2	Discharge	Motor	Max Ø [mm]	380-415V 3ph 50Hz	
	kW				£	Product Code
SP 30-1	1.1	Rp 3"	MS 402	134	1,307	13A01901
SP 30-2	2.2	Rp 3"	MS 402	134	1,668	13A01902
SP 30-3	3	Rp 3"	MS 4000	134	2,182	13A01903
SP 30-4	4	Rp 3"	MS 4000	134	2,490	13A01904
SP 30-5	5.5	Rp 3"	MS 4000	134	2,895	13A01905
SP 30-6	5.5	Rp 3"	MS 4000	134	3,156	13A01906
SP 30-7	7.5	Rp 3"	MS 6000	142	4,160	13A01907
SP 30-8	7.5	Rp 3"	MS 6000	142	4,329	13A01908
SP 30-9	9.2	Rp 3"	MS 6000	142	4,717	13A01909
SP 30-10	9.2	Rp 3"	MS 6000	142	4,879	13A01910
SP 30-11	9.2	Rp 3"	MS 6000	142	5,042	13A01911
SP 30-12	11	Rp 3"	MS 6000	142	5,273	13A01912
SP 30-13	11	Rp 3"	MS 6000	142	5,538	13A01913
SP 30-14	13	Rp 3"	MS 6000	142	5,968	13A01914
SP 30-15	13	Rp 3"	MS 6000	142	6,131	13A01915
SP 30-16	15	Rp 3"	MS 6000	142	6,440	13A01916
SP 30-17	15	Rp 3"	MS 6000	142	6,601	13A01917
SP 30-18	18.5	Rp 3"	MS 6000	142	7,202	13A01918
SP 30-19	18.5	Rp 3"	MS 6000	142	7,365	13A01919
SP 30-20	18.5	Rp 3"	MS 6000	142	7,614	13A01920
SP 30-21	18.5	Rp 3"	MS 6000	142	7,939	13A01921
SP 30-22	22	Rp 3"	MS 6000	142	8,284	13A01922
SP 30-23	22	Rp 3"	MS 6000	142	8,447	13A01923
SP 30-24	22	Rp 3"	MS 6000	142	8,605	13A01924
SP 30-25	22	Rp 3"	MS 6000	142	8,761	13A01925
SP 30-26	22	Rp 3"	MS 6000	142	8,919	13A01926
SP 30-27	26	Rp 3"	MS 6000	142	9,500	13A01927
SP 30-28	26	Rp 3"	MS 6000	142	9,654	13A01928
SP 30-29	26	Rp 3"	MS 6000	142	9,810	13A01929
SP 30-30	26	Rp 3"	MS 6000	142	9,963	13A01930
SP 30-31	26	Rp 3"	MS 6000	142	10,115	13A01931
SP 30-32	30	Rp 3"	MS 6000	142	10,576	13A01932
SP 30-33	30	Rp 3"	MS 6000	142	10,727	13A01933
SP 30-34	30	Rp 3"	MS 6000	142	10,879	13A01934
SP 30-35	30	Rp 3"	MS 6000	142	11,030	13A01935
SP 30-39 *	37	R 3"	MMS 6	175	15,208	13A44339
SP 30-43 *	37	R 3"	MMS 6	175	16,357	13A44343
SP 30-46 *	45	R 3"	MMS 8000	192	19,522	13A54346
SP 30-49 *	45	R 3"	MMS 8000	192	20,406	13A54349
SP 30-52 *	55	R 3"	MMS 8000	192	22,129	13A54352
SP 30-54 *	55	R 3"	MMS 8000	192	22,829	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				380-415V 3ph 50Hz	
	kW	Discharge	Motor	Max Ø [mm]	£	Product Code
SP 46-1-B	1.1	Rp 4"	MS 402	146	1,828	15A019C1
SP 46-1	2.2	Rp 4"	MS 402	146	2,069	15A01901
SP 46-2-BB	2.2	Rp 4"	MS 402	146	2,106	15A019D2
SP 46-2	3	Rp 4"	MS 4000	146	2,558	15A01902
SP 46-3-C	4	Rp 4"	MS 4000	146	3,003	15A019F3
SP 46-3	5.5	Rp 4"	MS 4000	146	3,209	15A01903
SP 46-4-C	5.5	Rp 4"	MS 4000	146	3,361	15A019F4
SP 46-4	7.5	Rp 4"	MS 6000	148	4,429	15A01904
SP 46-5	7.5	Rp 4"	MS 6000	148	4,744	15A01905
SP 46-6	9.2	Rp 4"	MS 6000	148	5,298	15A01906
SP 46-7	11	Rp 4"	MS 6000	148	5,681	15A01907
SP 46-8-C	11	Rp 4"	MS 6000	148	5,882	15A019F8
SP 46-8	13	Rp 4"	MS 6000	148	6,105	15A01908
SP 46-9-C	13	Rp 4"	MS 6000	148	6,384	15A019F9
SP 46-9	15	Rp 4"	MS 6000	148	6,679	15A01909
SP 46-10	15	Rp 4"	MS 6000	148	6,992	15A01910
SP 46-11	18.5	Rp 4"	MS 6000	148	7,795	15A01911
SP 46-12	18.5	Rp 4"	MS 6000	148	8,100	15A01912
SP 46-13	22	Rp 4"	MS 6000	148	8,721	15A01913
SP 46-14	22	Rp 4"	MS 6000	148	9,034	15A01914
SP 46-15	22	Rp 4"	MS 6000	148	9,347	15A01915
SP 46-16	26	Rp 4"	MS 6000	148	10,132	15A01916
SP 46-17	26	Rp 4"	MS 6000	148	10,440	15A01917
SP 46-18	30	Rp 4"	MS 6000	148	11,096	15A01918
SP 46-19	30	Rp 4"	MS 6000	148	11,265	15A01919
SP 46-20	30	Rp 4"	MS 6000	148	11,491	15A01920
SP 46-21	37	Rp 4"	MMS 6	150	13,865	15A04321
SP 46-22	37	Rp 4"	MMS 6	150	14,163	15A04322
SP 46-23	37	Rp 4"	MMS 6	150	14,456	15A04323
SP 46-24	37	Rp 4"	MMS 6	150	14,752	15A04324
SP 46-26 *	45	R 4"	MMS 8000	192	19,330	15A44326
SP 46-28 *	45	R 4"	MMS 8000	192	19,658	15A44328
SP 46-30 *	45	R 4"	MMS 8000	192	20,316	15A44330
SP 46-33 *	55	R 4"	MMS 8000	192	22,360	15A44333
SP 46-35 *	55	R 4"	MMS 8000	192	24,077	15A44335
SP 46-37 *	63	R 4"	MMS 8000	192	25,279	15A44337

* Pump in sleeve

ELECTRIC MOTOR

240V 1ph 50Hz

380-415V 3ph 50Hz

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

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

All 3ph motors suitable for frequency converter operation.

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

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

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP 60 AND 77 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

					380-415V 3ph 50Hz	
Model	P2 kW	Discharge	Motor	Max Ø [mm]	£	Product Code
SP 60-1-A	1.5	Rp 4"	MS 402	146	2,402	14A019A1
SP 60-1	2.2	Rp 4"	MS 402	146	2,601	14A01901
SP 60-2-B	3	Rp 4"	MS 4000	146	3,115	14A019C2
SP 60-2	4	Rp 4"	MS 4000	146	3,326	14A01902
SP 60-3	5.5	Rp 4"	MS 6000	148	4,767	14AA1903
SP 60-4	7.5	Rp 4"	MS 6000	148	4,948	14AA1904
SP 60-5	9.2	Rp 4"	MS 6000	148	5,452	14A01905
SP 60-6	11	Rp 4"	MS 6000	148	5,790	14A01906
SP 60-7	13	Rp 4"	MS 6000	148	6,205	14A01907
SP 60-8-B	13	Rp 4"	MS 6000	148	6,379	14A019C8
SP 60-8	15	Rp 4"	MS 6000	148	6,630	14A01908
SP 60-9-B	15	Rp 4"	MS 6000	148	6,801	14A019C9
SP 60-9	18.5	Rp 4"	MS 6000	148	7,380	14A01909
SP 60-10	18.5	Rp 4"	MS 6000	148	7,638	14A01910
SP 60-11	22	Rp 4"	MS 6000	148	8,199	14A01911
SP 60-12	22	Rp 4"	MS 6000	148	8,562	14A01912
SP 60-13	26	Rp 4"	MS 6000	148	9,302	14A01913
SP 60-14	26	Rp 4"	MS 6000	148	9,568	14A01914
SP 60-15	26	Rp 4"	MS 6000	148	9,831	14A01915
SP 60-16	30	Rp 4"	MS 6000	148	10,440	14A01916
SP 60-17	30	Rp 4"	MS 6000	148	10,577	14A01917
SP 60-18	37	Rp 4"	MMS 6	150	12,911	14A04318
SP 60-19	37	Rp 4"	MMS 6	150	13,170	14A04319
SP 60-20	37	Rp 4"	MMS 6	150	13,423	14A04320
SP 60-21	37	Rp 4"	MMS 6	150	13,676	14AA4321
SP 60-22	45	Rp 4"	MMS 8000	192	16,896	14A04322
SP 60-24 *	45	R 4"	MMS 8000	192	20,433	14A04324
SP 60-26 *	55	R 4"	MMS 8000	192	22,161	14A04326
SP 60-28 *	55	R 4"	MMS 8000	192	22,837	14A04328
SP 60-30 *	55	R 4"	MMS 8000	192	23,510	14A04330
SP 77-1	5.5	Rp 5"	MS 6000	178	4,922	16A01901
SP 77-2-B	5.5	Rp 5"	MS 6000	178	5,224	16A019C2
SP 77-2	7.5	Rp 5"	MS 6000	178	5,407	16A01902
SP 77-3-B	9.2	Rp 5"	MS 6000	178	6,010	16A019C3
SP 77-3	11	Rp 5"	MS 6000	178	6,234	16A01903
SP 77-4-B	13	Rp 5"	MS 6000	178	6,649	16A019C4
SP 77-4	15	Rp 5"	MS 6000	178	6,952	16A01904
SP 77-5	18.5	Rp 5"	MS 6000	178	7,639	16A01905
SP 77-6	22	Rp 5"	MS 6000	178	8,262	16A01906
SP 77-7	26	Rp 5"	MS 6000	178	9,128	16A01907
SP 77-8-B	26	Rp 5"	MS 6000	178	9,412	16A019C8
SP 77-8	30	Rp 5"	MS 6000	178	9,875	16A01908
SP 77-9	30	Rp 5"	MS 6000	178	10,301	16A01909
SP 77-10	37	Rp 5"	MMS 6	178	12,450	16A04310
SP 77-11	37	Rp 5"	MMS 6	178	12,863	16AA4311
SP 77-12	45	Rp 5"	MMS 8000	200	16,011	16A04312
SP 77-13	55	Rp 5"	MMS 8000	200	17,392	16A04313
SP 77-14	55	Rp 5"	MMS 8000	200	17,805	16A04314
SP 77-15	55	Rp 5"	MMS 8000	200	18,210	16A04315
SP 77-16	63	Rp 5"	MMS 8000	200	19,106	16A04316
SP 77-17	63	Rp 5"	MMS 8000	200	19,512	16A04317
SP 77-18	63	Rp 5"	MMS 8000	200	19,920	16A04318
SP 77-19	75	Rp 5"	MMS 8000	200	21,313	16A04319
SP 77-20	75	Rp 5"	MMS 8000	200	21,991	16A04320
SP 77-21	75	Rp 5"	MMS 8000	200	22,667	16A04321
SP 77-22	90	Rp 5"	MMS 8000	200	25,043	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	5,135	19001901
SP 95-2-BB	5.5	Rp 5"	MS 6000	178	5,309	190019D2
SP 95-2-A	7.5	Rp 5"	MS 6000	178	5,510	190019A2
SP 95-2	9.2	Rp 5"	MS 6000	178	5,985	19001902
SP 95-3-BB	9.2	Rp 5"	MS 6000	178	6,156	190019D3
SP 95-3-B	11	Rp 5"	MS 6000	178	6,399	190019C3
SP 95-3	13	Rp 5"	MS 6000	178	6,683	19001903
SP 95-4-B	15	Rp 5"	MS 6000	178	7,034	190019C4
SP 95-4	18.5	Rp 5"	MS 6000	178	7,588	19001904
SP 95-5-AB	18.5	Rp 5"	MS 6000	178	7,738	190019E5
SP 95-5	22	Rp 5"	MS 6000	178	8,274	19001905
SP 95-6	26	Rp 5"	MS 6000	178	9,199	19001906
SP 95-7	30	Rp 5"	MS 6000	178	9,829	19001907
SP 95-8	37	Rp 5"	MMS 6	178	12,095	19004308
SP 95-9	37	Rp 5"	MMS 6	178	12,556	19064309
SP 95-10	45	Rp 5"	MMS 8000	196	15,754	19004310
SP 95-11	55	Rp 5"	MMS 8000	196	17,184	19004311
SP 95-12	55	Rp 5"	MMS 8000	196	17,642	19004312
SP 95-13	55	Rp 5"	MMS 8000	196	18,103	19004313
SP 95-14	63	Rp 5"	MMS 8000	196	19,044	19004314
SP 95-15	75	Rp 5"	MMS 8000	196	20,488	19004315
SP 95-16	75	Rp 5"	MMS 8000	196	20,944	19004316
SP 95-17	75	Rp 5"	MMS 8000	196	21,400	19004317
SP 95-18	92	Rp 5"	MMS 8000	196	23,554	19004318
SP 95-19	92	Rp 5"	MMS 8000	196	24,005	19004319
SP 95-20	92	Rp 5"	MMS 8000	196	24,459	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	5,903	17A019A1
SP 125-1	11	Rp 6"	MS 6000	211	6,576	17A01901
SP 125-2-AA	13	Rp 6"	MS 6000	211	6,986	17A019B2
SP 125-2-A	18.5	Rp 6"	MS 6000	211	7,896	17A019A2
SP 125-2	22	Rp 6"	MS 6000	211	8,154	17A01902
SP 125-3-AA	22	Rp 6"	MS 6000	211	8,435	17A019B3
SP 125-3-A	26	Rp 6"	MS 6000	211	9,161	17A019A3
SP 125-3	30	Rp 6"	MS 6000	211	9,645	17A01903
SP 125-4-AA	37	Rp 6"	MMS 6	211	11,672	17A243B4
SP 125-4-A	37	Rp 6"	MMS 6	211	11,942	17A243A4
SP 125-4	37	Rp 6"	MMS 6	211	12,200	17A24304
SP 125-5-AA	45	Rp 6"	MMS 8000	213	15,211	17A043B5
SP 125-5-A	45	Rp 6"	MMS 8000	213	15,476	17A043A5
SP 125-5	55	Rp 6"	MMS 8000	213	16,707	17A04305
SP 125-6-AA	55	Rp 6"	MMS 8000	213	16,962	17A043B6
SP 125-6-A	55	Rp 6"	MMS 8000	213	17,223	17A043A6
SP 125-6	63	Rp 6"	MMS 8000	218	17,965	17A04306
SP 125-7-AA	63	Rp 6"	MMS 8000	218	18,216	17A043B7
SP 125-7-A	63	Rp 6"	MMS 8000	218	18,474	17A043A7
SP 125-7	75	Rp 6"	MMS 8000	218	19,716	17A04307
SP 125-8-AA	75	Rp 6"	MMS 8000	218	19,962	17A043B8
SP 125-8-A	75	Rp 6"	MMS 8000	218	20,218	17A043A8
SP 125-8	75	Rp 6"	MMS 8000	218	20,462	17A04308
SP 125-9-AA	92	Rp 6"	MMS 8000	218	22,414	17A043B9
SP 125-9-A	92	Rp 6"	MMS 8000	218	22,667	17A043A9
SP 125-9	92	Rp 6"	MMS 8000	218	22,907	17A04309
SP 125-10-AA	92	Rp 6"	MMS 8000	218	23,149	17A043B0
SP 125-10-A	92	Rp 6"	MMS 8000	218	23,395	17A043A0
SP 125-10	92	Rp 6"	MMS 8000	218	23,633	17A04310
SP 125-11	110	Rp 6"	MMS 8000	218	26,146	17A04311
SP 125-12	132	Rp 6"	MMS 10000	237	36,593	17AK4312
SP 125-13	132	Rp 6"	MMS 10000	237	38,600	17AK4313
SP 125-14	147	Rp 6"	MMS 10000	237	40,632	17AK4314
SP 125-15	147	Rp 6"	MMS 10000	237	41,033	17AK4315
SP 125-16	170	Rp 6"	MMS 10000	237	43,016	17AK4316
SP 125-17	170	Rp 6"	MMS 10000	237	43,417	17AK4317

ELECTRIC MOTOR

380-415V 3ph 50Hz

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

All 3ph motors suitable for frequency converter operation.

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

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

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP 160 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2				380-415V 3ph 50Hz	
	kW	Discharge	Motor	Max Ø [mm]	£	Product Code
SP 160-1-A	9.2	Rp 6"	MS 6000	211	6,163	200219A1
SP 160-1	13	Rp 6"	MS 6000	211	6,661	20021901
SP 160-2-AA	18.5	Rp 6"	MS 6000	211	7,575	200219B2
SP 160-2-A	22	Rp 6"	MS 6000	211	8,088	200219A2
SP 160-2	26	Rp 6"	MS 6000	211	8,649	20021902
SP 160-3-AA	30	Rp 6"	MS 6000	211	9,059	200219B3
SP 160-3-A	37	Rp 6"	MMS 6	211	11,277	200243A3
SP 160-3	37	Rp 6"	MMS 6	211	11,566	20024303
SP 160-4-AA	45	Rp 6"	MMS 8000	218	14,588	200243B4
SP 160-4-A	45	Rp 6"	MMS 8000	218	14,884	200243A4
SP 160-4	55	Rp 6"	MMS 8000	218	16,011	20024304
SP 160-5-AA	55	Rp 6"	MMS 8000	218	16,288	200243B5
SP 160-5-A	55	Rp 6"	MMS 8000	218	16,579	200243A5
SP 160-5	63	Rp 6"	MMS 8000	218	17,342	20024305
SP 160-6-AA	75	Rp 6"	MMS 8000	218	18,611	200243B6
SP 160-6-A	75	Rp 6"	MMS 8000	218	18,898	200243A6
SP 160-6	75	Rp 6"	MMS 8000	218	19,180	20024306
SP 160-7-AA	75	Rp 6"	MMS 8000	218	19,459	200243B7
SP 160-7-A	92	Rp 6"	MMS 8000	218	21,446	200243A7
SP 160-7	92	Rp 6"	MMS 8000	218	21,725	20024307
SP 160-8-AA	92	Rp 6"	MMS 8000	218	22,005	200243B8
SP 160-8-A	92	Rp 6"	MMS 8000	218	22,293	200243A8
SP 160-8	92	Rp 6"	MMS 8000	218	22,571	20024308
SP 160-9-AA	110	Rp 6"	MMS 8000	218	24,628	200243B9
SP 160-9-A	110	Rp 6"	MMS 8000	218	24,914	200243A9
SP 160-9	110	Rp 6"	MMS 8000	218	25,194	20024309
SP 160-10-AA	110	Rp 6"	MMS 8000	218	34,269	200243B0
SP 160-10-A	132	Rp 6"	MMS 10000	237	40,034	200643A0
SP 160-10	132	Rp 6"	MMS 10000	237	40,206	20064310
SP 160-11	132	Rp 6"	MMS 10000	237	40,715	20064311
SP 160-12	147	Rp 6"	MMS 10000	237	42,848	20064312
SP 160-13	170	Rp 6"	MMS 10000	237	44,933	20064313
SP 160-14	170	Rp 6"	MMS 10000	237	45,444	20064314
SP 160-15	190	Rp 6"	MMS 12000	286	POA	20064315

ELECTRIC MOTOR

380-415V 3ph 50Hz

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

All 3ph motors suitable for frequency converter operation.

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

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

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



CATEGORY 3 - SP 215 SUBMERSIBLE BOREHOLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	Discharge	Motor	Max Ø [mm]	380-415V 3ph 50Hz	
					£	Product Code
SP 215-1-A	15	Rp 6"	MS 6000	241	7,061	18A019A1
SP 215-1	18.5	Rp 6"	MS 6000	241	7,742	18A01901
SP 215-2-AA	30	Rp 6"	MS 6000	241	9,116	18A219B2
SP 215-2-A	37	Rp 6"	MMS 6	241	11,385	18A243A2
SP 215-2	45	Rp 6"	MMS 8000	241	14,566	18A04302
SP 215-3-AA	55	Rp 6"	MMS 8000	241	15,952	18A043B3
SP 215-3-A	55	Rp 6"	MMS 8000	241	16,359	18A043A3
SP 215-3	63	Rp 6"	MMS 8000	241	17,247	18A04303
SP 215-4-AA	75	Rp 6"	MMS 8000	241	18,647	18A043B4
SP 215-4-A	75	Rp 6"	MMS 8000	241	18,831	18A043A4
SP 215-4	75	Rp 6"	MMS 8000	241	18,985	18A04304
SP 215-5-AA	92	Rp 6"	MMS 8000	241	21,082	18A043B5
SP 215-5-A	92	Rp 6"	MMS 8000	241	21,457	18A043A5
SP 215-5	92	Rp 6"	MMS 8000	241	21,825	18A04305
SP 215-6-AA	110	Rp 6"	MMS 8000	241	23,996	18A043B6
SP 215-6-A	110	Rp 6"	MMS 8000	241	24,374	18A043A6
SP 215-6	110	Rp 6"	MMS 8000	241	24,740	18A04306
SP 215-7-AA	130	Rp 6"	MMS 8000	241	30,788	18A043B7
SP 215-7-A	130	Rp 6"	MMS 10000	241	31,163	18AT43A7
SP 215-7	130	Rp 6"	MMS 10000	241	31,521	18AT4307
SP 215-8-AA	150	Rp 6"	MMS 10000	241	33,532	18AT43B8
SP 215-8-A	150	Rp 6"	MMS 10000	241	33,902	18AT43A8
SP 215-8	150	Rp 6"	MMS 10000	241	34,263	18AT4308
SP 215-9-AA	170	Rp 6"	MMS 10000	276	36,218	18AT03B9
SP 215-9-A	170	Rp 6"	MMS 10000	276	36,586	18AT03A9
SP 215-9	170	Rp 6"	MMS 10000	276	36,943	18AT0309
SP 215-10-AA	190	Rp 6"	MMS 12000	276	46,797	18AV43B0
SP 215-10-A	190	Rp 6"	MMS 12000	276	47,161	18AV43A0
SP 215-10	190	Rp 6"	MMS 12000	276	47,517	18AV4310
SP 215-11	220	Rp 6"	MMS 12000	286	POA	18AV4311

ELECTRIC MOTOR

380-415V 3ph 50Hz

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

All 3ph motors suitable for frequency converter operation.

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

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

CABLE AND JOINTS

Drop cable and cable jointing kits can be supplied.

See page 21 for details.



Notes

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	165	98582272
SA-CSIR	0.55	190	98582277
SA-CSIR	0.75	220	98582295

Type	for motor kW	£	Product Code
SA-CSCR	1.1	293	98582296
SA-CSCR	1.5	366	98582381
SA-CSCR	2.2	421	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	799	96079927
Current transformer assembly 200/5	483	96095281
Current transformer assembly 300/5	508	96095282
Current transformer assembly 500/5	572	96095283
Current transformer assembly 750/5	596	96095284
Current transformer assembly 1000/5	631	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	271	96804042
PT1000 Sensor with 40m cable	397	96804044
PT1000 Sensor with 60m cable	524	96804064
PT1000 Sensor with 80m cable	656	96804065
PT1000 Sensor with 100m cable	783	96804067

Staybolt kits for PT1000 in MS402 & MS4000	EN1.4401/AISI 316	104	98090278
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For Grundfos MS6000 & MMS motors

	£	Product Code
PT100 Sensor with 20m cable	228	96913237
PT100 Sensor with 40m cable	394	96913253
PT100 Sensor with 60m cable	560	96913256
PT100 Sensor with 80m cable	726	96913260
PT100 Sensor with 100m cable	892	96913263

Staybolt kits for PT100 in MS6 & MS6000	EN1.4401/AISI 316	205	97550639
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Insertion probe for MMS10000 & MMS12000	EN1.4401/AISI 316	97	96913215
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MMS6 and MMS8000 motors do not require staybolt for PT100

For Franklin motors

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

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

For PT100 and PT1000

	£	Product Code
PR 5714	885	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)	15	00ID4063
4 x 2.5 sq mm (price per metre)	12	00ID4064
4 x 4 sq mm (price per metre)	16	00ID4065
4 x 6 sq mm (price per metre)	21	00ID4066

Model	£	Product Code
4 x 10 sq mm (price per metre)	32	00ID4067
4 x 16 sq mm (price per metre)	47	00ID4068
4 x 25 sq mm (price per metre)	67	00ID4069
1 x 35 sq mm (price per metre)	23	00ID4073
1 x 50 sq mm (price per metre)	31	00ID4074

WRAS APPROVED SUBMERSIBLE DROP CABLE

Model	£	Product Code
4 x 1.5 sq mm (price per metre)	40	98258159
4 x 2.5 sq mm (price per metre)	19	98258162
4 x 4 sq mm (price per metre)	31	98258164
4 x 6 sq mm (price per metre)	27	98258165

Model	£	Product Code
4 x 10 sq mm (price per metre)	91	98254486
4 x 16 sq mm (price per metre)	113	98258168
4 x 25 sq mm (price per metre)	173	98258169
4 x 50 sq mm (price per metre)	320	98294201
4 x 70 sq mm (price per metre)	458	98294203
1 x 25 sq mm (price per metre)	23	98258151
1 x 50 sq mm (price per metre)	35	98258154
1 x 70 sq mm (price per metre)	81	98258157

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

CABLE JOINTS - RESIN, HEAT SHRINK AND EARTH LEADS

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

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

Heat shrink cable joints

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

Earth Leads - required for 37kW and above motors

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

SP DIN FLANGE ADAPTER SETS

Pump Thread	DN	PN	£	Product Code
Rp 2½"	50	16/40	145	120125
	65	16/40	195	120126
	80	16/40	287	120127
Rp 3"	65	16/40	256	130187
	80	16/40	241	130188
	100	16	301	130210
	100	40	317	130189
Rp 4"	100	16	301	140077
	100	40	317	140071
Rp 5"	100	16	429	160159
	100	40	451	160148
	125	16	388	160157
	125	40	409	160149
	150	16	530	160161
	150	40	558	160150
Rp 6"	125	16	516	170170
	125	40	543	170159
	150	16	501	98518437
	150	40	528	170160
	200	16	753	170161
	200	40	1,086	170162

Flange adapters in EN 1.4308 stainless steel

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

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

CATEGORY 3 - DRAINAGE AND EFFLUENT WASTEWATER PUMPS

50Hz

DP AND EF AUTOADAPT PUMPS

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

1x230V 50Hz E.2.1.502	
£	Product Code
3003	96877476
-	-
-	-
2180	96877508
2269	96877515
2360	96875101
-	-

3x400V 50Hz E.2.50B	
£	Product Code
3003	96877478
3265	96877503
3781	96877506
2180	96877510
2269	96877516
2360	96878445
2478	96878448

DP AND EF EXPLOSION PROOF AUTOADAPT PUMPS

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

1x230V 50Hz E.Ex.2.1.502	
£	Product Code
3278	96877479
-	-
-	-
2421	96877512
2510	96877518
2600	96878446
-	-

3x400V 50Hz E.Ex.2.50B	
£	Product Code
3278	96877502
3540	96877504
4056	96877507
2421	96877514
2510	96877532
2600	96878447
2719	96878449

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

ELECTRIC MOTOR

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



DATA COMMUNICATION INTERFACE for waste water AUTOADAPT pumps



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

The above items are subject to Category 1 discount terms

£	Product Code
563	97644690
139	96824631
289	96824793
566	98301408
571	99439302
571	99439724

ACCESSORIES FOR DP AND EF PUMPS

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

For additional accessories, see page 37



HOOK-UP AUTO COUPLING



AUTO COUPLING Rp2"



AUTO COUPLING DN65

CATEGORY 3 - DRAINAGE AND EFFLUENT WASTEWATER PUMPS

50Hz

DP AND EF STANDARD PUMPS - 1PH

Model	P2 kW	Free passage	Discharge	1x230V 50Hz		1x230V 50Hz	
				2.1.502		A.2.1.502	
				WITHOUT CU100		WITH CU100	
				£	Product Code	£	Product Code
DP 10.50.09	0.9	10 mm	R 2"	1683	96104200	2070	96104202
EF 30.50.06	0.6	30 mm	R 2"	1208	96106546	1587	96106548
EF 30.50.09	0.9	30 mm	R 2"	1296	96115111	1676	96115113
EF 30.50.11	1.1	30 mm	R 2"	1386	96106554	1766	96106556

DP AND EF STANDARD PUMPS - 3PH

Model	P2 kW	Free passage	Discharge	3x400V 50Hz	
				£	Product Code
DP 10.50.09.2.50B	0.9	10 mm	R 2"	1683	96104204
DP 10.50.15.2.50B	1.5	10 mm	R 2"	2016	96104208
DP 10.50.26.2.50B	2.6	10 mm	DN 65	2398	96106542
EF 30.50.06.2.50B	0.6	30 mm	R 2"	1208	96106550
EF 30.50.09.2.50B	0.9	30 mm	R 2"	1296	96115115
EF 30.50.11.2.50B	1.1	30 mm	R 2"	1386	96106558
EF 30.50.15.2.50B	1.5	30 mm	R 2"	1583	96104196

DP AND EF EXPLOSION PROOF PUMPS

Model	P2 kW	Free passage	Discharge	1x230V 50Hz		3x400V 50Hz	
				Ex.2.1.502		Ex.2.50B	
				£	Product Code	£	Product Code
DP 10.50.09	0.9	10 mm	R 2"	1960	96104201	1960	96104205
DP 10.50.15	1.5	10 mm	R 2"	-		2204	96104209
DP 10.50.26	2.6	10 mm	DN 65	-		2586	96106543
EF 30.50.06	0.6	30 mm	R 2"	1456	96106547	1456	96106551
EF 30.50.09	0.9	30 mm	R 2"	1549	96115112	1549	96115116
EF 30.50.11	1.1	30 mm	R 2"	1644	96106555	1644	96106559
EF 30.50.15	1.5	30 mm	R 2"	-		1768	96104197

ELECTRIC MOTOR

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

1ph pumps require external starting capacitor.

CU100 1ph starter includes the start capacitor.

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



ACCESSORIES FOR DP AND EF PUMPS

	Pump	£	Product Code
Hookup Auto Coupling 2" with 90° elbow	DP10.50 / EF30.50	208	96004445
Auto Coupling DN65 cpl.	DP10.65	449	96090992
Auto coupling DN80 / DN65 cpl.	DP10.65	513	96102238
Autocoupling Rp2 cpl.	DP10.50 / EF30.50	286	97644486

For additional accessories, see page 37



HOOK-UP AUTO COUPLING



AUTO COUPLING Rp2"



AUTO COUPLING DN65

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

UNILIFT AP 35B WASTE WATER and SEWAGE PUMPS 1 PH

Model	P2 kW	Free passage	1x230V 50Hz		1x230V 50Hz	
			AUTOMATIC WITH FLOAT		MANUAL WITHOUT FLOAT	
			.A1.V		.1.V	
			£	Product Code	£	Product Code
Unilift AP35B.50.06	0.6	35 mm	649	96468356	554	96004563
Unilift AP35B.50.08	0.8	35 mm	765	96468355	669	96004575

UNILIFT AP 35B WASTE WATER and SEWAGE PUMPS 3 PH

Model	P2 kW	Free passage	3x400V 50Hz	
			MANUAL WITHOUT FLOAT	
			£	Product Code
Unilift AP35B.50.06.3.V	0.6	35 mm	619	96468190
Unilift AP35B.50.08.3.V	0.8	35 mm	736	96468193

UNILIFT AP 50B WASTE WATER and SEWAGE PUMPS 1 PH

Model	P2 kW	Free passage	1x230V 50Hz		1x230V 50Hz	
			AUTOMATIC WITH FLOAT		MANUAL WITHOUT FLOAT	
			.A1.V		.1.V	
			£	Product Code	£	Product Code
Unilift AP50B.50.08	0.8	50 mm	942	96004586	864	96004587
Unilift AP50B.50.11	1.1	50 mm	1150	96004598	1067	96004599

UNILIFT AP 50B WASTE WATER and SEWAGE PUMPS 3 PH

Model	P2 kW	Free passage	3x400V 50Hz	
			MANUAL WITHOUT FLOAT	
			£	Product Code
Unilift AP50B.50.08.3.V	0.8	35 mm	864	96468194
Unilift AP50B.50.11.3.V	1.1	35 mm	1018	96468195
Unilift AP50B.50.15.3.V	1.5	35 mm	1191	96468196

ELECTRIC MOTOR

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

PUMP

304 Stainless steel construction
All models with R 2" discharge



ACCESSORIES FOR AP-B

Auto-Coupling	£	Product Code
Auto Coupling Rp 2" (for 3/4" guide rails)	144	96429519
Auto Coupling Rp 2" (for 1" guide rails)	286	97644486

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

Sarlin TV range adapter	£	Product Code
AP 35B/50B adapter for Sarlin TV range	139	GBWGP0040

For additional accessories, see page 37



CATEGORY 3 - SEG & APG GRINDER WASTEWATER AND SEWAGE PUMPS

50Hz

SEG STANDARD PUMPS

Model	P2 kW	Discharge	1x230V 50Hz		3x400V 50Hz	
			2.1.502		2.50B	
			£	Product Code	£	Product Code
SEG.40.09	0.9	DN 40	2180	96075893	2180	96075897
SEG.40.12	1.2	DN 40	2180	96075901	2180	96075905
SEG.40.15	1.5	DN 40	2388	98280724	2462	96075909
SEG.40.26	2.6	DN 40	-	-	3056	96075913
SEG.40.31	3.1	DN 40	-	-	3165	96075915
SEG.40.40	4	DN 40	-	-	3693	96075917
SEG.50.26	2.6	DN 50	-	-	3209	99274384
SEG.50.31	3.1	DN 50	-	-	3324	99274386
SEG.50.40	4	DN 50	-	-	3877	99274388

SEG EXPLOSION PROOF PUMPS

Model	P2 kW	Discharge	1x230V 50Hz		3x400V 50Hz	
			2.1.502		2.50B	
			£	Product Code	£	Product Code
SEG.40.09.Ex	0.9	DN 40	2411	96075894	2411	96075898
SEG.40.12.Ex	1.2	DN 40	2411	96075902	2411	96075906
SEG.40.15.Ex	1.5	DN 40	2520	98280725	2626	96075910
SEG.40.26.Ex	2.6	DN 40	-	-	3197	96075914
SEG.40.31.Ex	3.1	DN 40	-	-	3306	96075916
SEG.40.40.Ex	4	DN 40	-	-	3857	96075918
SEG.50.26.Ex	2.6	DN 50	-	-	3358	99274385
SEG.50.31.Ex	3.1	DN 50	-	-	3472	99274387
SEG.50.40.Ex	4	DN 50	-	-	4050	99274389

SEG AUTOADAPT PUMPS

Model	P2 kW	Discharge	1x230V 50Hz		3x400V 50Hz	
			2.1.502		2.50B	
			£	Product Code	£	Product Code
SEG.40.09.E	0.9	DN 40	3216	96878505	3216	96878506
SEG.40.12.E	1.2	DN 40	3216	96878509	3216	96878510
SEG.40.15.E	1.5	DN 40	3481	98280726	3481	96878514
SEG.40.26.E	2.6	DN 40	-	-	4153	96878516
SEG.40.31.E	3.1	DN 40	-	-	4256	96878518
SEG.40.40.E	4	DN 40	-	-	4753	96878520
SEG.50.26.E	2.6	DN 50	-	-	4359	99274434
SEG.50.31.E	3.1	DN 50	-	-	4468	99274436
SEG.50.40.E	4	DN 50	-	-	4989	99274438

SEG EXPLOSION PROOF AUTOADAPT PUMPS

Model	P2 kW	Discharge	1x230V 50Hz		3x400V 50Hz	
			2.1.502		2.50B	
			£	Product Code	£	Product Code
SEG.40.09.E.Ex	0.9	DN 40	3511	96878507	3511	96878508
SEG.40.12.E.Ex	1.2	DN 40	3511	96878512	3511	96878513
SEG.40.15.E.Ex	1.5	DN 40	-	-	3686	96878515
SEG.40.26.E.Ex	2.6	DN 40	-	-	4363	96878517
SEG.40.31.E.Ex	3.1	DN 40	-	-	4466	96878519
SEG.40.40.E.Ex	4	DN 40	-	-	4985	96878521
SEG.50.26.E.Ex	2.6	DN 50	-	-	4581	99274435
SEG.50.31.E.Ex	3.1	DN 50	-	-	4690	99274437
SEG.50.40.E.Ex	4	DN 50	-	-	5234	99274439

ELECTRIC MOTOR

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

1ph standard pumps require external starting capacitor.

CU100 1ph starter includes the start capacitor.

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

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



CATEGORY 3 - SEG & APG GRINDER WASTEWATER AND SEWAGE PUMPS

50Hz

ACCESSORIES FOR SEG PUMPS

	Pump discharge	AC discharge	Guide rails	£	Product Code
SEG Hook-up Auto Coupling	Rp 2"	Rp 2"		205	96004442
SEG Hook-up Auto Coupling	DN40	Rp 1" 1/2		251	96076089
SEG 40 Auto Coupling	DN40	Rp 1" 1/2	3/4" - 1"	229	96076063
SEG.50 Auto Coupling	DN50	Rp 2"	3/4" - 1"	286	97695874
Feet extension for free standing pumps (set of 3)				120	96076196
APG to an SEG Adaptor				136	96578891

For additional accessories, see page 37



FEET EXTENSION



HOOK-UP AUTO COUPLING



AUTO COUPLING

CU100 SINGLE PHASE STARTER FOR DP, EF AND SEG PUMPS

	For pump model		£	Product Code
CU 100.230.1.9.30/150.A	SEG.40.09.2.1.502	With Float	721	96076197
CU 100.230.1.9.30/150	SEG.40.09.2.1.502	Without Float	547	96076209
CU 100.230.1.9.30/150.A	SEG.40.12.2.1.502	With Float	721	96076197
CU 100.230.1.9.30/150	SEG.40.12.2.1.502	Without Float	547	96076209

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

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

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



APG GRINDER WASTEWATER AND SEWAGE PUMPS

Model	P2 kW	Discharge	3x400V 50Hz	
			£	Product Code
APG50.65.3	6.5	DN 50	8639	96835728
APG50.92.3	9.2	DN 50	9624	96835731

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



ACCESSORIES FOR APG PUMPS

	£	Product Code
APG Auto-Coupling DN50	467	96005353

For additional accessories, see page 37

CATEGORY 3 - SEWAGE AND WASTE WATER PUMPS

50Hz

SL1 AUTOADAPT PUMPS

Model	P2 kW	Free passage	1x230V 50Hz		3x400V 50Hz	
			E.2.1.502.B		E.2.50B.B	
			£	Product Code	£	Product Code
SL1.50.65.09	0.9	50 mm	2534	96878450	2534	96878451
SL1.50.65.11	1.1	50 mm	2737	96878454	2737	96878455
SL1.50.65.15	1.5	50 mm	-		3123	96878458

SL1 AUTOADAPT EXPLOSION PROOF PUMPS

Model	P2 kW	Free passage	1x230V 50Hz		3x400V 50Hz	
			E.Ex.2.1.502.B		E.Ex.2.50B.B	
			£	Product Code	£	Product Code
SL1.50.65.09	0.9	50 mm	2791	96878452	2791	96878453
SL1.50.65.11	1.1	50 mm	2994	96878456	2994	96878457
SL1.50.65.15	1.5	50 mm	-		3379	96878472

SLV AUTOADAPT PUMPS

Model	P2 kW	Free passage	1x230V 50Hz		3x400V 50Hz	
			E.2.1.502.B		E.2.50B.B	
			£	Product Code	£	Product Code
SLV.65.65.09	0.9	65 mm	2207	96878474	2207	96878475
SLV.65.65.11	1.1	65 mm	2366	96882685	2366	96882686
SLV.65.65.15	1.5	65 mm	-		2705	96878503

SLV AUTOADAPT EXPLOSION PROOF PUMPS

Model	P2 kW	Free passage	1x230V 50Hz		3x400V 50Hz	
			E.Ex.2.1.502.B		E.Ex.2.50B.B	
			£	Product Code	£	Product Code
SLV.65.65.09	0.9	65 mm	2432	96878476	-	
SLV.65.65.11	1.1	65 mm	2591	96878480	2591	96878481
SLV.65.65.15	1.5	65 mm	-		2930	96878504

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

ELECTRIC MOTOR

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



DATA COMMUNICATION INTERFACE FOR WASTE WATER AUTOADAPT pumps



Model	£	Product Code
CIU 902 Waste Water Auto Adapt	563	97644690
CIM 050 GENIbus	139	96824631
CIM 150 Profibus DP	289	96824793
CIM 500 Ethernet ^{see note 6)}	566	98301408
CIM 260 Cellular EU ¹⁾	571	99439302
CIM 280 GRM/GIC EU ^{1) 5)}	571	99439724

The above items are subject to Category 1 discount terms

ACCESSORIES FOR SL1 AND SLV AUTOADAPT PUMPS

	Pump discharge	AC discharge	Guide rails	£	Product Code
Complete cast iron auto coupling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2	449	96090992
		DN 80	1" 1/2	513	96102238

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

CATEGORY 3 - SL1 CHANNEL and S-TUBE IMPELLER PUMPS

50Hz

STANDARD WASTE WATER AND SEWAGE PUMPS FOR WET WELL APPLICATIONS

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

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

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

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

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

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

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

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

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

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

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

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

1x230V 50Hz	
STANDARD	
2.1.502	
£	Product Code
1456	96106562
1652	96104125

3x400V 50Hz	
STANDARD	
2.50B	
£	Product Code
1456	96106566
1652	96104129
2132	96104118

STANDARD	
2.50D.C	
2349	98624257
2649	98624258
2.51D.C	
3128	98624259
2.50D.C	
2395	98617678
2692	98626076

2.51D.C	
3173	98624260
4.50D.C	
2683	98624693
2887	98624251
3904	98624669
4.51D.C	
4422	98626052
5102	98624697
5816	98624703

4.50D.C	
2693	98625977
2901	98624695
3928	98625966
4.51D.C	
4435	98626053
5102	98626028
5865	98626066

4898	98624701
5582	98626029
6264	98626067

4975	98626054
5660	98626030
6342	98626068

1x230V 50Hz	
WITH CU100 CONTROL BOX	
A.2.1.502	
£	Product Code
2028	96106564
2045	96104127

3x400V 50Hz	
WITH CU100 CONTROL BOX	
A.2.50B	
£	Product Code
1849	96106570
2045	96104133
2546	96104122

SENSOR VERSION	
A.2.50D.C	
3066	98626303
3398	98626304
A.2.51D.C	
3926	98626316
A.2.50D.C	
3118	98617680
3445	98626306

A.2.51D.C	
3976	98626319
A.4.50D.C	
3344	98626189
3562	98624696
4654	98626175
A.4.51D.C	
5211	98626276
5941	98626246
6707	98626292

A.4.50D.C	
3355	98626190
3578	98626193
4681	98626176
A.4.51D.C	
5224	98626277
5941	98626247
6760	98626293

5733	98626278
6469	98626248
7203	98626294

5816	98626279
6552	98626250
7286	98626295

ELECTRIC MOTOR

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

ACCESSORIES

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

£	Product Code
449	96090992
513	96102238
514	96090993
846	96102240
847	96090994
1420	96102241
1293	96090995
1441	97695489

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

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

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

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

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

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

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

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

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

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

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

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

ELECTRIC MOTOR

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

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

1x230V 50Hz	
ATEX	
Ex.2.1.502	
£	Product Code
1723	96106563
1930	96104126
-	

3x400V 50Hz	
ATEX	
Ex.2.50D.C	
2475	98626698
2775	98626699

Ex.2.51D.C	
3128	98626705

Ex.2.50D.C	
2521	98617679
2818	98626700

Ex.2.51D.C	
3173	98626708

Ex.4.50D.C	
2809	98626615
3013	98626619
4154	98626608

Ex.4.51D.C	
4673	98626676
5352	98626647
6117	98626687

Ex.4.50D.C	
2819	98626616
3027	98626620
4178	98626609

Ex.4.51D.C	
4685	98626677
5352	98626648
6166	98626688

5148	98626678
5832	98626649
6565	98626689

5225	98626679
5909	98626650
6642	98626690

3x400V 50Hz	
ATEX	
Ex.2.50B	
£	Product Code
1723	96106568
1930	96104131
2324	96104120

3x400V 50Hz	
SENSOR ATEX	
A.Ex.2.50D.C	
3205	98626482
3537	98626483

A.Ex.2.51D.C	
3926	98626489

A.Ex.2.50D.C	
3257	98617691
3584	98626484

A.Ex.2.51D.C	
3976	98626492

A.Ex.4.50D.C	
3479	98626399
3698	98626403
4923	98626392

A.Ex.4.51D.C	
5480	98626460
6209	98626431
7031	98626471

A.Ex.4.50D.C	
3490	98626400
3713	98626404
4949	98626393

A.Ex.4.51D.C	
5493	98626461
6209	98626432
7083	98626472

6002	98626462
6738	98626433
7527	98626473

6085	98626463
6821	98626434
7610	98626474


ACCESSORIES

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

£	Product Code
449	96090992
513	96102238
514	96090993
846	96102240
847	96090994
1420	96102241
1293	96090995
1441	97695489

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

CATEGORY 3 - SLV VORTEX IMPELLER PUMPS

STANDARD WASTE WATER AND SEWAGE PUMPS FOR WET WELL APPLICATIONS

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

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

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

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

SLV.65.80.40	4	Vortex	65 mm	DN 80
--------------	---	--------	-------	-------

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

SLV.80.80.40	4	Vortex	80 mm	DN 80
--------------	---	--------	-------	-------

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

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

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

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

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

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

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

1x230V 50Hz	
STANDARD	
2.1.502	
£	Product Code
1261	96115119
1416	96106573

3x400V 50Hz	
STANDARD	
2.50B	
£	Product Code
1261	96115123
1373	96106577
1836	96104192

STANDARD	
2.50D.C	
2659	98624199
2756	98624165

2.51D.C	
3249	98624254

2.50D.C	
2675	98625961
2773	98625942

2.51D.C	
3267	98624699

4.50D.C	
2545	98625975
2610	98624692
2642	98624694
2691	98624252

4.51D.C	
3041	98624702

2.51D.C	
3253	98626039
3991	98626041
4823	98624255
5082	98626047
5600	98624700

4.50D.C	
2602	98624691
2669	98625976
2701	98625978
2750	98625979

4.51D.C	
3100	98626055

2.51D.C	
4050	98626042
4880	98626046
5141	98626048
5659	98626043

4.50D.C	
3396	98625967

4.51D.C	
3640	98626056
4364	98626031
5296	98624704

1x230V 50Hz	
WITH CU100 CONTROL BOX	
A.2.1.502	
£	Product Code
1606	96115121
1761	96106575

3x400V 50Hz	
WITH CU100 CONTROL BOX	
A.2.50B	
£	Product Code
1606	96115125
1761	96106579
2199	96104194

SENSOR VERSION	
A.2.50D.C	
3285	98626169
3389	98626159

A.2.51D.C	
3912	98626259

A.2.50D.C	
3302	98626170
3406	98626160

A.2.51D.C	
3932	98626260

A.4.50D.C	
2970	98626185
3035	98626187
3067	98626191
3116	98626194

A.4.51D.C	
3465	98626280

A.2.51D.C	
3676	98626261
4413	98626263
5243	98626269
5501	98626271
6019	98626265

A.4.50D.C	
3027	98626186
3094	98626188
3126	98626192
3175	98626195

A.4.51D.C	
3524	98626281

A.2.51D.C	
4472	98626264
5300	98626270
5560	98626272
6078	98626266

A.4.50D.C	
4182	98626177

A.4.51D.C	
4448	98626282
5240	98626251
6258	98626296

ACCESSORIES

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

£	Product Code
449	96090992
513	96102238
514	96090993
846	96102240
847	96090994
1420	96102241

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

February 2022

Page 30

CATEGORY 3 - SLV VORTEX IMPELLER PUMPS

EXPLOSION PROOF WASTE WATER AND SEWAGE PUMPS FOR WET WELL APPLICATIONS

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

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

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

SLV.65.80.40	4	Vortex	65 mm	DN 80
--------------	---	--------	-------	-------

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

SLV.80.80.40	4	Vortex	80 mm	DN 80
--------------	---	--------	-------	-------

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

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

SLV.80.100.40	4	Vortex	80 mm	DN 100
---------------	---	--------	-------	--------

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

SLV.100.100.30	3	Vortex	100 mm	DN 100
----------------	---	--------	--------	--------

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

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

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

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

ELECTRIC MOTOR

230V 1ph 50Hz

400V 3ph 50Hz

IP68 Enclosure

Class F insulation

1x230V 50Hz	
ATEX	
Ex.2.1.502	
£	Product Code
1495	96115120
1658	96106574
-	

3x400V 50Hz	
ATEX	
Ex.2.50D.C	
2785	98626606
2883	98626604
Ex.2.51D.C	
3249	98626659
Ex.2.50D.C	
2801	98626607
2899	98626605
Ex.2.51D.C	
3267	98626660
Ex.4.50D.C	
2671	98626611
2736	98626613
2769	98626617
2817	98626621
Ex.4.51D.C	
3291	98626680
Ex.2.51D.C	
3253	98626661
4241	98626663
5073	98626669
5383	98626671
5901	98626665
Ex.4.50D.C	
2728	98626612
2795	98626614
2828	98626618
2876	98626622
Ex.4.51D.C	
3350	98626681
Ex.2.51D.C	
3310	98626662
4300	98626664
5130	98626670
5442	98626672
5960	98626666
Ex.4.50D.C	
3646	98626610
Ex.4.51D.C	
3889	98626682
4614	98626651
5597	98626691

3x400V 50Hz	
ATEX	
Ex.2.50B	
£	Product Code
1495	96115124
1658	96106578
2003	96104193

3x400V 50Hz	
SENSOR ATEX	
A.Ex.2.50D.C	
3419	98626390
3523	98626388
A.Ex.2.51D.C	
3912	98626443
A.Ex.2.50D.C	
3437	98626391
3540	98626389
A.Ex.2.51D.C	
3932	98626444
A.Ex.4.50D.C	
3096	98626395
3161	98626397
3193	98626401
3242	98626405
A.Ex.4.51D.C	
3715	98626464
A.Ex.2.51D.C	
3676	98626445
4663	98626447
5493	98626453
5802	98626455
6319	98626449
A.Ex.4.50D.C	
3153	98626396
3220	98626398
3252	98626402
3301	98626406
A.Ex.4.51D.C	
3774	98626465
A.Ex.2.51D.C	
3733	98626446
4722	98626448
5550	98626454
5860	98626456
6378	98626450
A.Ex.4.50D.C	
4455	98626394
A.Ex.4.51D.C	
4721	98626466
5513	98626435
6586	98626475

ACCESSORIES

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

£	Product Code
449	96090992
513	96102238
514	96090993
846	96102240
847	96090994
1420	96102241

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

CATEGORY 3 - SE1 S-TUBE IMPELLER PUMPS

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

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

3x400V 50Hz	
STANDARD	
2.50D.B	
£	Product Code
2820	96047509
3051	96047517
2.51D.B	
3745	96047525
2.50D.B	
2868	96047981
3098	96047989
2.51D.B	
3791	96047997
4.50D.B	
3120	96047533
3351	96047549
4162	96047565
4.51D.B	
4594	96047597
5298	96047613
6039	96047627
4.50D.B	
2867	96048005
3099	96048021
4094	96048037
4.51D.B	
4604	96048069
5298	96048085
6090	96048099
5119	96047641
5888	96047657
6620	96047671
5250	96048113
5965	96048129
6700	96048143

3x400V 50Hz	
SENSOR	
A.2.50D.B	
£	Product Code
3787	96177629
4036	96177630
A.2.51D.B	
4782	96177631
A.2.50D.B	
3839	96177632
4086	96177633
A.2.51D.B	
4831	96177634
A.4.50D.B	
3723	96177635
3954	96177636
4765	96177637
A.4.51D.B	
5196	96177638
5901	96177639
6641	96177640
A.4.50D.B	
3452	96177641
3685	96177642
4696	96177643
A.4.51D.B	
5206	96177644
5901	96177645
6692	96177646
6165	96177647
6993	96177648
7782	96177649
6393	96177650
7076	96177651
7868	96177652

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

ELECTRIC MOTOR

400V 3ph 50Hz
IP68 Enclosure
Class F insulation

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



ACCESSORIES

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

£	Product Code
449	96090992
513	96102238
514	96090993
846	96102240
847	96090994
1420	96102241
1293	96090995
1441	97695489

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



CATEGORY 3 - SE1 S-TUBE IMPELLER PUMPS

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

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

3x400V 50Hz	
ATEX WITH SENSOR	
A.Ex.2.50D.B	
£	Product Code
4171	96177673
4452	96177674
A.Ex.2.51D.B	
5255	96177675
A.Ex.2.50D.B	
4180	96177676
4466	96177677
A.Ex.2.51D.B	
5262	96177678
A.Ex.4.50D.B	
4107	96177679
4358	96177680
5272	96177681
A.Ex.4.51D.B	
5757	96177682
6536	96177683
7348	96177684
A.Ex.4.50D.B	
3854	96177685
4089	96177686
5206	96177687
A.Ex.4.51D.B	
5770	96177688
6398	96177689
7197	96177690
6684	96177691
7572	96177692
8423	96177693
6800	96177694
7644	96177695
8514	96177696

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

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

ELECTRIC MOTOR

400V 3ph 50Hz

IP68 Enclosure

Class F insulation

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



ACCESSORIES

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

£	Product Code
449	96090992
513	96102238
514	96090993
846	96102240
847	96090994
1420	96102241
1293	96090995
1441	97695489

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



CATEGORY 3 - SEV VORTEX IMPELLER PUMPS

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

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

3x400V 50Hz	
STANDARD	
2.50D	
£	Product Code
2926	96047697
3170	96047713
2.51D	
3901	96047729
2.50D	
2975	96048169
3218	96048185
2.51D	
3951	96048201
4.50D	
3008	96047745
3059	96047757
3100	96047769
3156	96047781
4.51D	
3587	96047797
2.51D	
4322	96047829
4686	96047845
5939	96047861
6240	96047207
6253	96047877
4.50D	
3060	96780674
3111	96780676
3152	96780678
3388	96780680
4.51D	
3639	96780682
2.51D	
4375	96780684
4738	96780686
5991	96780688
6292	96780690
6305	96780692
4.50D	
4006	96047893
4.51D	
4272	96047925
5127	96047941
6218	96047957

3x400V 50Hz	
SENSOR	
A.2.50D	
£	Product Code
3656	96177653
3900	96177654
A.2.51D	
4631	96177655
A.2.50D	
3705	96177656
3949	96177657
A.2.51D	
4682	96177658
A.4.50D	
3632	96177659
3683	96177660
3724	96177661
3842	96177662
A.4.51D	
4211	96177663
A.2.51D	
4946	96177664
5310	96177665
6563	96177666
6864	96177667
7271	96177668
A.4.50D	
3683	96780694
3734	96780696
3775	96780698
3830	96780700
A.4.51D	
4262	96780702
A.2.51D	
4998	96780704
5361	96780706
6614	96780708
6915	96780710
6929	96780712
A.4.50D	
4630	96177669
A.4.51D	
4896	96177670
5751	96177671
6842	96177672

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

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

ELECTRIC MOTOR

400V 3ph 50Hz

IP68 Enclosure

Class F insulation

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



ACCESSORIES

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

£	Product Code
449	96090992
513	96102238
514	96090993
846	96102240
847	96090994
1420	96102241

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



CATEGORY 3 - SEV VORTEX IMPELLER PUMPS

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

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

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

ELECTRIC MOTOR

400V 3ph 50Hz
IP68 Enclosure
Class F insulation

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

3x400V 50Hz	
ATEX WITH SENSOR	
A.Ex.2.50D	
£	Product Code
4053	96177697
4329	96177698
A.Ex.2.51D	
5139	96177699
A.Ex.2.50D	
4096	96177700
4375	96177701
A.Ex.2.51D	
5190	96177702
A.Ex.4.50D	
3886	96177703
3937	96177704
3999	96177705
4093	96177706
A.Ex.4.51D	
4841	96177707
A.Ex.2.51D	
5116	96177708
5864	96177709
7198	96177710
7428	96177711
7323	96177712
A.Ex.4.50D	
3936	96780734
3989	96780736
4051	96780738
4145	96780740
A.Ex.4.51D	
4892	96780742
A.Ex.2.51D	
5131	96780744
5915	96780746
7248	96780748
7478	96780750
7374	96780752
A.Ex.4.50D	
5122	96177713
A.Ex.4.51D	
5412	96177714
6226	96177715
7391	96177716



ACCESSORIES

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

£	Product Code
449	96090992
513	96102238
514	96090993
846	96102240
847	96090994
1420	96102241

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

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

AUTO COUPLING FOR SL1/SLV AND SE1/SEV



	Pump discharge	AC discharge	Guide rails	£	Product Code
Complete cast iron auto coupling system with guide claw, baseplate and upper guide rail holder	DN 65	DN 65	1" 1/2	449	96090992
		DN 80	1" 1/2	513	96102238
	DN 80	DN 80	1" 1/2	514	96090993
		DN 100	2"	846	96102240
	DN 100	DN 100	2"	847	96090994
		DN 150	2"	1420	96102241
	DN 150	DN 150	2"	1293	96090995
			3"	1441	97695489

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



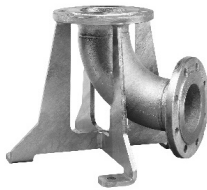
		Guide rails	£	Product Code
Consider using a IGRH if the guide rail length exceeds				
IGRH in stainless steel	DN 40	1"	48	96825111
	DN 65	1" 1/2	99	96825119
	DN 80	1" 1/2	100	96825142
	DN 100	2"	135	96825161
	DN 150	3"	152	96887674

PORTABLE SUBMERGED INSTALLATION FOR SL1/SLV AND SE1/SEV



		£	Product Code
Ring stand with flanged 90 degree elbow and hose connection	DN 65	228	96102253
	DN 80	245	96102254
	DN 100	286	96102255
	DN 150	1655	96102256

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



	Pump suction	Baseplate suction	£	Product Code
Base stand for vertical dry installation, including 90 ° elbow in galvanised steel.	DN 65	DN 65	687	96102257
	DN 80	DN 80	877	96102258
		DN 100	954	96567174
	DN 100	DN 100	1357	96102259
		DN 150	1244	96567175
	DN 150	DN 150	1595	96102260
		DN 200	1748	96567176

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



			£	Product Code
Brackets for horizontal dry installation	DN 65	2.2 - 3kW, 2 pole	324	99451462
	DN 65	4kW, 2 pole	341	99451490
	DN 80	2.2 - 3kW, 2 pole	344	99451456
	DN 80	1.1 - 2.2kW, 4 pole	344	99451456
	DN 80	4 - 7.5kW, 2 pole	347	99451488
	DN 80	4kW, 4 pole	347	99451488
	DN 80	9.2 - 11kW, 2 pole	311	99451492
	DN 100	1.5 - 2.2kW, 4 pole	367	99451460
	DN 100	3 - 5.5kW, 4 pole	370	99451485
	DN 100	7.5kW, 4 pole	325	99451504
	DN 150	4 - 5.5kW, 4 pole	608	99451491
	DN 150	7.5kW, 4 pole	614	99451507

IO113 SENSOR MODULE FOR SL/SE PUMPS WITH SENSOR

IO 113 Module used to interface WIO sensor

		£	Product Code
Standard Variant	24 VAC/VDC	828	98097391
With communication module	24 VAC/VDC	872	98711370



CATEGORY 3 - WASTE WATER ANCILLIARY ITEMS

GALVANIZED GUIDE RAILS

Model	ID	OD	Nominal Length	£	Product Code
Rail Galv 1"	25 mm	33.7 mm	3.2 m	109	99314687
Rail Galv 1 1/2"	40 mm	48.3 mm	3.2 m	146	99314688
Rail Galv 2"	50 mm	60.3 mm	3.2 m	205	99314690
Rail Galv 2 1/2"	65 mm	76.1 mm	3.2 m	286	99314691
Rail Galv 3"	80 mm	88.9 mm	3.2 m	394	99314692

STAINLESS STEEL GUIDE RAILS

Model	ID	OD	Nominal Length	£	Product Code
Rail 316 S/Steel 1"	25 mm	33.4 mm	3 m	104	99327897
Rail 316 S/Steel 1 1/2"	40 mm	48.3 mm	3 m	149	99327900
Rail 316 S/Steel 2"	50 mm	60.3 mm	3 m	190	99327901
Rail 316 S/Steel 2 1/2"	65 mm	73 mm	3 m	313	99327902
Rail 316 S/Steel 3"	80 mm	88.9 mm	3 m	369	99327913

CHAIN AND SHACKLE

	Lenght	£	Product Code
Lifting chain with shackle 320kg Stainless Steel	3 m	90	98989664
Lifting chain with shackle 320kg Stainless Steel	6 m	139	98989668
Lifting chain with shackle 320kg Stainless Steel	10 m	204	98989672
Lifting chain with shackle 500kg Stainless Steel	3 m	140	98538175
Lifting chain with shackle 500kg Stainless Steel	6 m	226	98538177
Lifting chain with shackle 500kg Stainless Steel	10 m	319	98538179
Lifting chain with shackle 800kg Stainless Steel	4 m	375	98425797
Lifting chain with shackle 800kg Stainless Steel	6 m	476	98425798
Lifting chain with shackle 800kg Stainless Steel	10 m	642	98425800
Lifting chain with shackle 800kg - GALVANISED	4 m	181	98425760
Lifting chain with shackle 800kg - GALVANISED	6 m	240	98425781
Lifting chain with shackle 800kg - GALVANISED	10 m	364	98425783

FLOAT SWITCH LEVEL CONTROLS - MERCURY FREE

Model	£	Product Code
2 Float switch kit	432	62500013
3 Float switch kit	690	62500014
4 Float switch kit	869	62500015
3 Float switch kit for ATEX	913	62500017
4 Float switch kit for ATEX	1171	62500018
LC-EX4 intrinsically safe Zener barrier for ATEX Environments	1,047	96440300

Model	£	Product Code
Single float switch - 10m cable*	171	96003332
Single float switch - 20m cable*	230	96003695
ATEX float switch - 10m cable*	238	96003421
ATEX float switch - 20m cable*	298	96003536
* without accessories		
Float switch SLC 10E	147	98664108
Float switch SLC 20E	187	98664110

CATEGORY 3 - PUMPING STATIONS AND LIFTING STATIONS

PREFABRICATED PUMPING STATIONS

Formerly known as PUST10.

Model	Nominal Diameter	Depth (mm)	Pump Type	Solids Size (mm)	No. Pumps	£	Product code
PS.R.12.20.S.GC.304.50.A50.SEG	1200 mm	2000 mm	SEG	Grinder	1	2,725	96235302
PS.R.12.25.S.GC.304.50.A50.SEG	1200 mm	2500 mm	SEG	Grinder	1	3,037	96235303
PS.R.12.20.S.GC.304.50.A50.APB	1200 mm	2000 mm	AP50B	50	1	2,725	96235308
PS.R.12.25.S.GC.304.50.A50.APB	1200 mm	2500 mm	AP50B	50	1	3,037	96235309
PS.R.12.20.S.GC.304.65.A65.DP/SL	1200 mm	2000 mm	DP10.65/SLV/SL1*	up to 65	1	4,056	96235320
PS.R.12.25.S.GC.304.65.A65.DP/SL	1200 mm	2500 mm	DP10.65/SLV/SL1*	up to 65	1	4,392	96235321
PS.R.12.20.D.GC.304.50.A50.SEG	1200 mm	2000 mm	SEG	Grinder	2	3,767	96235322
PS.R.12.25.D.GC.304.50.A50.SEG	1200 mm	2500 mm	SEG	Grinder	2	4,300	96235323
PS.R.12.20.D.GC.304.50.A50.APB	1200 mm	2000 mm	AP50B	50	2	3,767	96235326
PS.R.12.25.D.GC.304.50.A50.APB	1200 mm	2500 mm	AP50B	50	2	4,300	96235327
PS.R.12.20.D.GC.304.65.A65.DP/SL	1200 mm	2000 mm	DP10.65/SLV*	up to 65	2	5,818	96235334
PS.R.12.25.D.GC.304.65.A65.DP/SL	1200 mm	2500 mm	DP10.65/SLV*	up to 65	2	6,462	96235335

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

Includes auto couplings and internal pipework with valves.

Pumps not included.

MULTILIFT WASTE WATER AND SEWAGE LIFTING STATIONS - DRY INSTALLED

Model (With Starter)	Nº pumps	P2 kW	Cable	Plug	240V 1Ph 50Hz	
					£	Product Code
M.12.1.4	1	1.2	1.5m	SCHUKO	4,269	97901064
M.15.1.4	1	1.5	1.5m	SCHUKO	4,680	97901066
MD.12.1.4	2	1.2	1.5m	SCHUKO	9,326	97901084
MD.15.1.4	2	1.5	1.5m	SCHUKO	9,839	97901086

Model	Nº pumps	P2 kW	Cable	Plug	415V 3Ph 50Hz	
					£	Product Code
M.12.3.4	1	1.2	1.5m	-	4,269	97901065
M.15.3.4	1	1.5	1.5m	-	4,680	97901067
M.22.3.4	1	2.2	1.5m	-	4,996	97901068
M.24.3.2	1	2.4	1.5m	-	5,313	97901070
M.32.3.2	1	3.2	1.5m	-	5,850	97901072
M.38.3.2	1	3.8	1.5m	-	6,261	97901074
MD.12.3.4	2	1.2	1.5m	-	9,128	97901085
MD.15.3.4	2	1.5	1.5m	-	9,642	97901087
MD.22.3.4	2	2.2	1.5m	-	10,472	97901088
MD.24.3.2	2	2.4	1.5m	-	10,985	97901090
MD.32.3.2	2	3.2	1.5m	-	11,460	97901092
MD.38.3.2	2	3.8	1.5m	-	13,040	97901094

ELECTRIC MOTOR

230V 1ph 50Hz DOL

400V 3ph 50Hz DOL

IP68 Enclosure

Class F insulation

CABLES

All models with 4 m cable between motor and controller

All models with 1.5 m cable between controller and plug



ACCESSORIES FOR MULTILIFT WASTE WATER AND SEWAGE LIFTING STATIONS

		£	Product Code
Diaphragm pump 2" for M/MD	Rp 1 1/2"	345	96003721
Isolating valve, PVC	DN 100	452	96615831
Isolating valve, epoxy-coated cast iron	DN 80	260	96002011
Isolating valve, brass	Rp 1 1/4"	60	00ID0918
Flexible connection with clamps for additional connections and inlets	DN 32	29	91071645
Socket seal for additional inlet	DN 50	53	98079669
Socket seal for additional inlet	DN 100	49	97726942
Socket seal for additional inlet (vertical inlet on top)	DN 150	138	96636544
Venting valve (with filter)		216	98059596

CATEGORY 3 - SUBMERSIBLE MIXERS

AMD - DIRECT DRIVEN SUBMERSIBLE MIXER WITH 4 POLES MOTOR



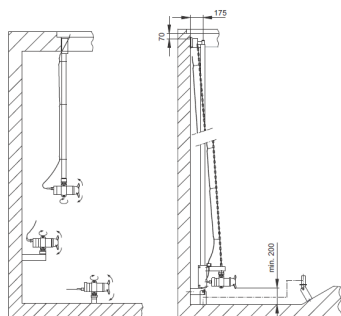
Model	Axial Thrust	Rated Power P1	3x400V 50Hz	
			£	Product Code
AMD.05.16.1450.T.5.0B.A	60N	0.56 kW	1,902	99056116
AMD.07.18.1430.T.5.0B.A	95N	0.76 kW	2,058	99018155

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

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

ACCESSORIES FOR AMD SUBMERSIBLE MIXER

AMD



Item	Material	£	Product Code
Fixation bracket for suspended mounting	1.4401/316	452	95040132
Tube for suspended mounting, 2" thread, 3m	1.4401/316	1,171	95040131
Fixation bracket for wall mounting, 2" thread	1.4401/316	449	96115291
Fixation base for floor mounting, 2" thread	1.4401/316	352	96115292
Motor bracket for column profile mounting	1.4401/316	989	96115295
Column profile tube 60x60x3mm*	1.4301/304	127	96489420
Column profile tube 60x60x3mm*	1.4404/316L	238	96489421

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

CATEGORY 3 - LC 231 AND LC 241 LEVEL CONTROLLERS

LC 231 DIRECT ON LINE

Model	N° pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz 3x415V 50Hz	
					£	Product code
LC 231 1x 1-12 DOL 3x460 PI CE	1	1-12	P	x	658	99369644
LC 231 2x 1-9 DOL 3x460 PI CE	2	1-9	P	x	826	99369650



LC 241 DIRECT ON LINE

Model	N° pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz 3x415V 50Hz	
					£	Product code
LC 241 1x 1,9-6,3 DOL 1x230 PI OPT	1	1.9-6.3	P	No	1,503	99897056
LC 241 2x 1,9-6,3 DOL 1x230 PI OPT	2	1.9-6.3	P	No	1,703	99897059

Model	N° pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 0,8-2,7 DOL 3x230/400 PI OPT	1	0.8-2.7	P	x	1415	99897053
LC 241 1x 1,9-6,3 DOL 3x230/400 PI OPT	1	1.9-6.3	P	x	1519	99897055
LC 241 1x 5,7-12 DOL 3x230/400 PI OPT	1	5.7-12	P	x	1530	99897061
LC 241 1x 9-26 DOL 3x230/400 PI OPT	1	9.0-26	P	x	1808	99897065
LC 241 2x 0,8-2,7 DOL 3x230/400 PI OPT	2	0.8-2.7	P	x	1889	99897054
LC 241 2x 1,9-6,3 DOL 3x230/400 PI OPT	2	1.9-6.3	P	x	1898	99897058
LC 241 2x 5,7-12 DOL 3x230/400 PI OPT	2	5.7-12	P	x	1937	99897063
LC 241 2x 9-26 DOL 3x230/400 PI OPT	2	9.0-26	P	x	2157	99897066



CATEGORY 3 - LC 241 WASTEWATER CONTROLLERS

LC 241 WITH CURRENT TRANSFORMERS

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC 241 1x 1,9-6,3 DOL 1x230 PI OPT	1	1.9-6.3	P	x	1503	99897056
LC 241 2x 1,9-6,3 DOL 1x230 PI OPT	2	1.9-6.3	P	x	1703	99897059

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 0,8-2,7 DOL 3x230/400 PI OPT	1	0.8-2.7	P	x	1415	99897053
LC 241 1x 1,9-6,3 DOL 3x230/400 PI OPT	1	1.9-6.3	P	x	1519	99897055
LC 241 1x 5,7-12 DOL 3x230/400 PI OPT	1	5.7-12	P	x	1530	99897061
LC 241 1x 9-26 DOL 3x230/400 PI OPT	1	9.0-26	P	x	1808	99897065
LC 241 2x 0,8-2,7 DOL 3x230/400 PI OPT	2	0.8-2.7	P	x	1889	99897054
LC 241 2x 1,9-6,3 DOL 3x230/400 PI OPT	2	1.9-6.3	P	x	1898	99897058
LC 241 2x 5,7-12 DOL 3x230/400 PI OPT	2	5.7-12	P	x	1937	99897063
LC 241 2x 9-23 DOL 3x400 OPT	2	9.0-26	P	x	2157	99897066

LC 241 LEVEL CONTROLLERS WITH START/RUN CAPACITORS

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC 241 1x 1,9-6,3 DOL 30 150 1x230 PI OPT	1	1.9-6.3	P	30\150	1645	99897057
LC 241 1x 5,7-12 DOL 30 150 1x230 PI OPT	1	5.7-12	P	30\150	1659	99897062
LC 241 2x 1,9-6,3 DOL 30 150 1x230 PI OPT	2	1.9-6.3	P	30\150	1958	99897060
LC 241 2x 5,7-12 DOL 30 150 1x230 PI OPT	2	5.7-12	P	30\150	2157	99897064

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

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC 241 1x 1,9-6,3 DOL 30 150 1x230 PI OPT	1	1.9-6.3	P	30\150	1622	99877153
LC 241 1x 5,7-12 DOL 30 150 1x230 PI OPT	1	5.7-12	P	30\150	1636	99877171
LC 241 2x 1,9-6,3 DOL 30 150 1x230 PI OPT	2	1.9-6.3	P	30\150	1879	99877161
LC 241 2x 5,7-12 DOL 30 150 1x230 PI OPT	2	5.7-12	P	30\150	1933	99877180

LC 241 LEVEL CONTROLLERS WITH STAR/DELTA STARTING

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 10-30 SD 3x230/400 MI OPT	1	10-30	M	x	2500	99897073
LC 241 1x 16-44 SD 3x230/400 MI OPT	1	16-44	M	x	2740	99897075
LC 241 1x 26-65,5 SD 3x230/400 MI OPT	1	26-65	M	x	3156	99897077
LC 241 2x 10-30 SD 3x230/400 MI OPT	2	10-30	M	x	3060	99897074
LC 241 2x 16-44 SD 3x230/400 MI OPT	2	16-44	M	x	3609	99897076
LC 241 2x 26-65,5 SD 3x230/400 MI OPT	2	26-65	M	x	4537	99897078

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

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 10-30 SD 3x230/400 MI OPT	1	10-30	M	x	2452	99877189
LC 241 1x 16-44 SD 3x230/400 MI OPT	1	16-44	M	x	2698	99877199
LC 241 1x 26-65,5 SD 3x230/400 MI OPT	1	26-65	M	x	2945	99877205
LC 241 2x 10-30 SD 3x230/400 MI OPT	2	10-30	M	x	3022	99877192
LC 241 2x 16-44 SD 3x230/400 MI OPT	2	16-44	M	x	3371	99877202
LC 241 2x 26-65,5 SD 3x230/400 MI OPT	2	26-65	M	x	3806	99877208



CATEGORY 3 - LC 241 WASTEWATER CONTROLLERS

LC 241 LEVEL CONTROLLERS WITH SOFT START

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 8-12 SST 3x230/400 MI OPT	1	8.0-12	M	x	2284	99897079
LC 241 1x 10-16 SST 3x230/400 MI OPT	1	10.0-16	M	x	2335	99897081
LC 241 1x 20-25 SST 3x230/400 MI OPT	1	20-25	M	x	2441	99897085
LC 241 1x 25-30 SST 3x230/400 MI OPT	1	25-30	M	x	2546	99897087
LC 241 1x 30-42 SST 3x230/400 MI OPT	1	30-42	M	x	3037	99897089
LC 241 1x 40-54 SST 3x230/400 MI OPT	1	40-54	M	x	3292	99897091
LC 241 1x 52-65 SST 3x230/400 MI OPT	1	52-60	M	x	3607	99897093
LC 241 1x 62-72 SST 3x230/400 MI OPT	1	62-72	M	x	3620	99897095
LC 241 2x 8-12 SST 3x230/400 MI OPT	2	8.0-12	M	x	2730	99897080
LC 241 2x 10-16 SST 3x230/400 MI OPT	2	10.0-16	M	x	2821	99897082
LC 241 2x 20-25 SST 3x230/400 MI OPT	2	20-25	M	x	2999	99897086
LC 241 2x 25-30 SST 3x230/400 MI OPT	2	25-30	M	x	3344	99897088
LC 241 2x 30-42 SST 3x230/400 MI OPT	2	30-42	M	x	4105	99897090
LC 241 2x 40-54 SST 3x230/400 MI OPT	2	40-54	M	x	4679	99897092
LC 241 2x 52-65 SST 3x230/400 MI OPT	2	52-60	M	x	5162	99897094
LC 241 2x 62-72 SST 3x230/400 MI OPT	2	62-72	M	x	5187	99897096

LC 241 LEVEL CONTROLLERS WITH SOFT START WITH CURRENT TRANSFORMER

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC 241 1x 8-12 SST 3x230/400 MI OPT	1	8-12	M	x	2282	99877211
LC 241 1x 10-16 SST 3x230/400 MI OPT	1	10.-16	M	x	2339	99877217
LC 241 1x 16-20 SST 3x230/400 MI OPT	1	16-20	M	x	2422	99877223
LC 241 1x 20-25 SST 3x230/400 MI OPT	1	20-25	M	x	2452	99877229
LC 241 1x 25-30 SST 3x230/400 MI OPT	1	25-30	M	x	2556	99877235
LC 241 1x 30-42 SST 3x230/400 MI OPT	1	30-42	M	x	3047	99877241
LC 241 1x 40-54 SST 3x230/400 MI OPT	1	40-54	M	x	3352	99877247
LC 241 1x 52-65 SST 3x230/400 MI OPT	1	52-65	M	x	3812	99877257
LC 241 1x 62-72 SST 3x230/400 MI OPT	1	62-72	M	x	3825	99877263
LC 241 2x 8-12 SST 3x230/400 MI OPT	2	8-12	M	x	2763	99877214
LC 241 2x 10-16 SST 3x230/400 MI OPT	2	10.-16	M	x	2878	99877220
LC 241 2x 16-20 SST 3x230/400 MI OPT	2	16-20	M	x	3043	99877226
LC 241 2x 20-25 SST 3x230/400 MI OPT	2	20-25	M	x	3056	99877232
LC 241 2x 25-30 SST 3x230/400 MI OPT	2	25-30	M	x	3400	99877238
LC 241 2x 30-42 SST 3x230/400 MI OPT	2	30-42	M	x	4086	99877244
LC 241 2x 40-54 SST 3x230/400 MI OPT	2	40-54	M	x	4711	99877254
LC 241 2x 52-65 SST 3x230/400 MI OPT	2	52-65	M	x	5194	99877260
LC 241 2x 62-72 SST 3x230/400 MI OPT	2	62-72	M	x	5219	99877266



CATEGORY 3 - LC 242 SP CONTROLLERS

LC242 DIRECT ON LINE WITHOUT CAPACITOR

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC242 1x 1.9-6.3DOL 1x230 PI OPT	1	1.9-6.3	P	x	1548	99897114

Suitable for SQE pumps up to 6.3 Amps

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC242 2x 1.9-6.3 DOL 1x230 PI OPT	2	1.9-6.3	P	x	1922	99897117

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

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

LC242 WITH START AND RUN CAPACITORS

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	1x240V 50Hz	
					£	Product code
LC242 1x 1.9-6.3DOL 30 1501x230 PI OPT	1	1.9-6.3	P	30/150	1693	99897115
LC242 1x 5.7-12DOL 30 1501x230 PI OPT	1	5.7-12	P	30/150	1707	99897120
LC242 2x 1.9-6.3 30 150DOL 1x230 PI OPT	2	1.9-6.3	P	30/150	2182	99897118
LC242 2x 5.7-12 150DOL 1x230 PI OPT	2	5.7-12	P	30/150	2216	99897122

LC242 WITH CURRENT TRANSFORMERS

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC242 1x 0.8-2.7 DOL 3x400 PI OPT	1	0.8-2.7	P	x	1503	99877270
LC242 1x 1.9-6.3 DOL 3x400 PI OPT	1	1.9-6.3	P	x	1508	99877278
LC242 1x 5.7-12 DOL 3x400 PI OPT	1	5.7-12	P	x	1518	99877287
LC242 1x 9-26 DOL 3x400 PI OPT	1	9-26	P	x	1716	99877295
LC242 2x 0.8-2.7 DOL 3x400 PI OPT	2	0.8-2.7	P	x	1733	99877274
LC242 2x 1.9-6.3 DOL 3x400 PI OPT	2	1.9-6.3	P	x	1841	99877283
LC242 2x 3,2-12 DOL 3x400 PI OPT	2	5.7-12	P	x	1871	99877291
LC242 2x 9-23 DOL 3x400 PI OPT	2	9-26	P	x	2196	99877299

LC242 DIRECT ON LINE WITH CURRENT TRANSFORMERS AND IO241 MODULE

Model	Nº pumps	Rated current (A)	Enclosure Metal/Plastic	Capacitor	3x415V 50Hz	
					£	Product code
LC242 1x 0.8-2.7 DOL 3x400 PI OPT	1	0.8-2.7	P	x	1839	99877272
LC242 1x 1.9-6.3 DOL 3x400 PI OPT	1	1.9-6.3	P	x	1844	99877281
LC242 1x 5.7-12 DOL 3x400 PI OPT	1	5.7-12	P	x	1854	99877289
LC242 1x 9-26 DOL 3x400 PI OPT	1	9-26	P	x	2118	99877297
LC242 2x 0.8-2.7 DOL 3x400 PI OPT	2	0.8-2.7	P	x	2067	99877276
LC242 2x 1.9-6.3 DOL 3x400 PI OPT	2	1.9-6.3	P	x	2241	99877285
LC242 2x 5.7-12 DOL 3x400 PI OPT	2	5.7-12	P	x	2271	99877293
LC242 2x 9-26 DOL 3x400 PI OPT	2	9-26	P	x	2430	99877301



CATEGORY 3 - LC CONTROLLER OPTIONS

Level Controllers - Options

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

How to Select a controller with options ?

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

Please contact Grundfos for assistance



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

	£	Product code
Analog Level sensor LH100 0-3m, 10m cable	779	98991643
Analog Level sensor LH100 0-5m, 10m cable	779	98991645
Analog Level sensor LH100 0-5m, 25m cable	1,081	98991649
Analog Level sensor LH100 0-5m, 25m cable EX	1,226	99113184
Analog Level sensor LH100 0-10m, 25m cable	1,081	98991652
Analog Level sensor LH100 0-10m, 50m cable	1,371	98991653
Analog Level sensor LH100 0-20m, 50m cable	1,371	99354047
Analog Level sensor LH300 0-2m, 10m cable	1,479	99245886
Analog Level sensor LH300 0-2m, 25m cable	1,768	99245887

Level Sensor Cable Hangers

	£	Product code
Cable hanger for LH100	22	98991655
Cable hanger for LH300	64	99357623
Weight 300g for LH100	75	99287745

Level Sensor Float Switches

	£	Product code
Float switch with 10m cable	171	96003332
Float switch with 20m cable	230	96003695
Float switch with 30m cable	290	91073205
Float switch with 10m cable incl. mounting bracket - set of 2 pcs	432	62500013
Float switch with 10m cable incl. mounting bracket - set of 3 pcs	690	62500014
Float switch with 10m cable incl. mounting bracket - set of 4 pcs	869	62500015
Weight 300g for cable stabilizing	65	96003337
"Float switch" light, LED	POA	99477181

Alarm signalling

	£	Product code
Signal lamp 1x230VAC for outdoor mounting	430	62500020
Audible alarm 100dB	POA	99124311
Combi alarm with light and audible	229	97914944

Mains Isolators

	£	Product code
External main switch for supply cable 25A	94	96002511
External main switch for supply cable 40A	159	96002512
External main switch for supply cable 80A	229	96002513

External Communication

	£	Product code
CIM 200 Modbus	263	96824796
CIM 260 Modbus 2G/3G/4G (EU)	571	99439302
CIM 280 Grundfos iSOLUTION Cloud (EU)	571	99439724
CIM 500 Ethernet (CIM 500 Ethernet, PROFINET, Modbus TCP, BACnet IP, GRM IP)	566	98301408
Antenna 2G/3G/4G ø111mmx46mm, 1.5m cable	124	99510879
Antenna 2G/3G/4G ø138mmx55mm, 1.5m cable, vandal proof	190	99229807
Antenna 2G/3G/4G Marina type, 435mm high, 10m cable	POA	99387500
Backup battery for CIM 260/280	42	99499908

Converter boxes

	£	Product code
Airbells converter box	258	96924062
Electrodes converter box	POA	99558057

EX Barriers

	£	Product code
External Ex-barrier for digital sensors (LC-EX4)	1155	99621732
External Ex-barrier for analogue sensors	1232	99621731

Communication Cables And Small Accessories

	£	Product code
Cable, GENI 420MM	31	99670249
Cable, GENI 550MM	33	99670253
Cable, GENI 680MM	34	99670254
Power supply,	84	99670255
Current transformer, CT	70	99670257
M20 split cable gland kit	25	99587021
M25 metal cable gland for 16-21mm cable	33	99587019

CATEGORY 3 - DOCUMENTATION AND TESTING

DOCUMENTATION

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

	Product Code	£ NET
CERTIFICATES & TESTING FOR SPA/SP PUMPS UP to 132 kW		
SALES OFFICE GENERATED CERTIFICATES		
Letter of conformity (Certificate of Compliance with the Order 2.1 - Non specific inspection and testing)	GBLOC001	FOC
Typical Test Certificate (Test Report - Non specific inspection and testing 2.2)	GBTTC001	61
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	61
PRODUCTION GENERATED CERTIFICATES (EN 10204) --THESE ARE ALL TO BE INCLUDED IN THE PUMP PRODUCT CODE AND BOM		
Letter of conformity (Certificate of Compliance with the Order EN 10204 2.1 Non specific inspection and testing)	96507895	POA
Typical Test Certificate (Test report EN 10204 2.2 - Non specific inspection and testing)	96507896	POA
Inspection Certificate (EN 10204 3.1)	96507897	POA
Witness test (Inspection Certificate - Lloyds Register of Shipping LRS)	96507898	POA
Witness test (Inspection Certificate - Det Norske Veritas DNV)	96507899	POA
Witness test (Inspection Certificate - Germanischer Lloyd GL)	96507920	POA
Witness test (Inspection Certificate - Bureau Veritas BV)	96507921	POA
Witness test (Inspection Certificate - Det Norske Veritas DNV)	96507922	POA
Witness test (Inspection Certificate - Various other listed bodies -- only undertaken by Group production)	Various see FPV	POA
Material specification report (verification of main component materials used)	96507928	POA
Special material report with EN10204 3.1certificate (verification of main component materials used from supplier)	96507929	POA

GENERAL NOTES

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

Notes

Notes

CONDITIONS OF SALE AND SERVICE

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

1. INTERPRETATION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Quotation: a written quotation issued by Grundfos.

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

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

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

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

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

1.2 Headings in these conditions shall not affect their interpretation.

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

1.4 The schedules and annexes form part of this Agreement.

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

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

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

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

2. Basis of Agreement

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

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

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

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

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

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

2.4 These Conditions shall:

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

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

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

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

2.6 Quotations shall only be valid if issued in writing.

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

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

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

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

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

3. Equipment

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

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

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

(a) change the design, construction or composition of the Equipment or the materials or equipment used in the Equipment as it shall think fit; and

(b) amend the Equipment Specification of the Equipment if required by any applicable statutory requirements, and shall, in any case, notify the Customer of any such changes (if such changes are effected after this Agreement has come into existence but before the Equipment and/or Services have been fully performed).

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

4. Delivery of Equipment

4.1 Grundfos shall deliver the Equipment to the Delivery Location.

4.2 Delivery of the Equipment shall be completed on:

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

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

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

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

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

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

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

(b) Grundfos may:

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

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

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

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

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

4.8 Grundfos may deliver the Equipment by instalments.

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

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

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

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

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

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

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

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