

Grundfos Pump Repair Kits Price List February 2022 Category 4A



PRODUCTS INCLUDED:

UPE/MAGNA

SOLOLIFT+/SOLOLIFT2

UNILIFT

MQ/JP/SCALA2

CM/CH

CR

TP/NB/NK

SP

MG/MGE



be
think
innovate

GRUNDFOS 

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>

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UMC, UPC, UPS Series 100, ALPHA

UMC/UPC

Pump heads

UMC/UPC pump heads 1ph and 3ph are obsolete
Please contact grundfos-uk@sales.grundfos.com for alternative pump

		240V 1ph 50Hz			415V 3ph 50Hz	
		Capacitor	£	Product Code	£	Product Code
Terminal boxes	UPC 40-60	6 µF	449	96405853	437	96404870
	UPC 40-120	10 µF	449	96405855	437	96404870
	UMC 50-60	14 µF	449	96405857	437	96404870
	UPC 50-120	20 µF	449	96405859	437	96404870
	UMC 65-60	20 µF	449	96405859	437	96404870
	UPC 65-120	25 µF	449	96405860	437	96404870
	UMC 80-60				437	96404870
	UPC 80-120				437	96404870
	UMC 100-60				437	96404870

All above codes are obsolete and only available while stocks last.

UPS - Series 100

		£	Product Code
Pump heads	UPS 40-50		
	UPS 40-80		
UPS 40-50 and UPS 40-80 single phase pump heads are obsolete Please contact grundfos-uk@sales.grundfos.com for alternative pump			
Pump heads*	UP 40-50 F	OBSELETE	52992095
Terminal box*	UP 40-50 F	17	98730796

* Product obsolete. Once stock is depleted, please contact grundfos-uk@sales.grundfos.com

UPS - Series 200

		£	Product Code
Flap valve with guide pin for twin head pumps	UPS 32	55	96407253
	UPS 40	56	96407254
	UPS 50	117	96407255
	UPS 65	60	96407256
	UPS 80	62	96407257
	UPS 100	129	96407258

ACCESSORIES

		£	Product Code
Tee key	4mm UPS 15-50 etc	32	00SV0181
	5mm UPS 32-80; 40-50; 40-80	32	00SV0124
	6mm UPS 40-60; 40-120	27	00SV0050
	8mm UPS 50; UPS 65; UPS 80; UPS 100	51	00SV0051
COMFORT UP(S) PM plug		21	98685259
Alpha Plug (straight)	ALPHA Pro, ALPHA+	30	595562
	ALPHA2 (L), ALPHA3, MAGNA1, MAGNA3	21	98284561
Body O'Ring Kit		36	96406940
Gasket D44/D32x2		22	99200010
Red Spray Paint		OBSELETE	96485340
Flow Switch		35	595406

Circulator Washers (520046)		Pack of 50	22	99200010
Air vent screw 1/4"BSP		Pack of 5	67	96548464
UPS3 Plug		UPS3	36	99439948
UPS2 Plug		UPS2	21	98284561



ALPHA plug

UPS / UPSD - Series 200

UPS Series 200 replacement pump heads

	240V 1ph 50Hz		415V 3ph 50Hz	
	£	Product Code	£	Product Code
UPS 32-30/4	889	96405977	889	96405979
UPS 32-60/2	889	96405980	889	96405984
UPS 32-120/2	889	96405985	889	96405987
UPS 40-30/4	889	96405988	889	96405990
UPS 40-60/2	889	96405994	889	96405996
UPS 40-60/4	1,035	96405991	1,035	96405993
UPS 40-120/2	889	96405997	889	96405999
UPS 40-180/2	1,035	96406000	1,035	96406001
UPS 40-185/2	1,035	96432239	1,035	96432238
UPS 50-30/4	889	96406002	889	96406004
UPS 50-60/2	889	96406009	889	96406013
UPS 50-60/4	1,035	96406005	1,035	96406008
UPS 50-120/2	1,035	96406015	1,035	96406017
UPS 50-180/2	1,035	96406018	1,035	96406019
UPS 65-30/4	889	96406020	889	96406022
UPS 65-60/2	889	96406026	889	96406028
UPS 65-60/4	1,035	96406023	1,035	96406025
UPS 65-120/2	1,035	96406029	1,035	96406031
UPS 65-180/2			1,035	96406032
UPS 80-30/4			1,035	96406034
UPS 80-60/4			1,035	96406036
UPS 80-120/2			1,035	96406038
UPS 100-30/4			1,035	96406040

* UPS circulator pumps with metal ID plate obsolete - no spares

* Pump with FO6 on name plate obsolete - no spares

UPS Series 200 replacement terminal boxes

	240V 1ph 50Hz			415V 3ph 50Hz	
	Capacitor	£	Product Code	£	Product Code
UPS 32-30/4	4 µF	449	96405852	437	96404870
UPS 32-60/2	6 µF	449	96405853	437	96404870
UPS 32-120/2	10 µF	449	96405855	437	96404870
UPS 40-30/4	6 µF	449	96405853	437	96404870
UPS 40-60/2	8 µF	449	96405854	437	96404870
UPS 40-60/4	10 µF	449	96405855	437	96404870
UPS 40-120/2	12 µF	449	96405856	437	96404870
UPS 40-180/2	25 µF	449	96405860	437	96404870
UPS 40-185/2	25 µF	449	96405860	437	96404870
UPS 50-30/4	6 µF	449	96405853	437	96404870
UPS 50-60/2	10 µF	449	96405855	437	96404870
UPS 50-60/4	20 µF	449	96405859	437	96404870
UPS 50-120/2	25 µF	449	96405860	437	96404870
UPS 50-180/2	30 µF	449	96405861	437	96404870
UPS 65-30/4	8 µF	449	96405854	437	96404870
UPS 65-60/2	16 µF	449	96405858	437	96404870
UPS 65-60/4	20 µF	449	96405859	437	96404870
UPS 65-120/2	30 µF	449	96405861	437	96404870



UPSD 50-120 F

UPE(D), MAGNA UPE(D)

UPE UPED Replacement 3 phase heads and terminal boxes

Pump head
Terminal box

Pump heads and terminal boxes are obsolete
Please contact grundfos-uk@sales.grundfos.com for alternative pump

UPE(D) - SINGLE PHASE TERMINAL BOXES (model E)*

	£	Product Code
UPE 32-120 (F)(N)	1,703	96513647
UPE(D) 40-100 (F)	1,045	97752743
UPE(D) 40-120 (F)(N)	1,703	96513647
UPE(D) 50-60 (F)(N)	1,703	96513647
UPE 50-100 (F)	1,045	97752743
UPE(D) 50-120 (F)(N)	2,771	96500020
UPE(D) 65-60 (F)(N)	1,703	96513647
UPE(D) 65-120(F)(N)	2,771	96500020
UPE(D) 80-120 FZ	OBSOLETE	97529279
MAGNA 25/32/40/50-40/60/80/100	1,045	97752743

* Product obsolete. Once stock is depleted, please contact grundfos-uk@sales.grundfos.com

UPE(D) - SINGLE PHASE PUMP HEADS (model E)*

	£	Product Code
UPE 32-120 (F)(FN)	OBSOLETE	96513648
UPE 40-100(F)(F(D))	OBSOLETE	96281051
UPE 40-120(F)(FN)(F(D))	OBSOLETE	96513649
UPE 50-60(F)(FN)(F(D))	OBSOLETE	96513660
UPE 50-100(F)	OBSOLETE	96281052
UPE 50-120(F)(F(D))(FN)	OBSOLETE	96499918
UPE 65-60(F)(FN)(F(D))	OBSOLETE	96513661
UPE 65-120(F)(FN)(D)	OBSOLETE	96499919
UPE25-60	OBSOLETE	96281047
UPE25-100	OBSOLETE	96281049

* Product obsolete. Once stock is depleted, please contact grundfos-uk@sales.grundfos.com

UPE (D)

	£	Product Code
Geni Module *	221	605945
LON Module	OBSOLETE	98179044

* Product obsolete. Only available while stocks last.



UPE GENI module

MAGNA (D)

	£	Product Code
Geni Module * Magna 4/6/8/10 m	OBSOLETE	96236335

* Product obsolete. Once stock is depleted, please contact grundfos-uk@sales.grundfos.com



Magna add-on module



Magna terminal box

Please advise pump PN and contact Grundfos direct to ensure correct generation of spare quoted
Above items are under our phase out program - please call to check stock once stock sold parts are obsolete

MAGNA1, MAGNA1 D, MAGNA3, MAGNA3 D

MAGNA1, MAGNA1 D

	£	Product Code
ALPHA plug (Straight)	21	98284561
Kit, O-ring D68x4.35	12	98357755
Control box cover	116	98988010
Insulation shell DN25/D32 180	49	98615808
Insulation shell DN32-100 F 220	63	98615809
Insulation shell DN40-60 F 220	65	98615810

HEADS AND TERMINAL BOXES

PLEASE CONTACT GRUNDFOS WITH PUMPS QUOTING PN NUMBER FROM YOUR NAMEPLATE

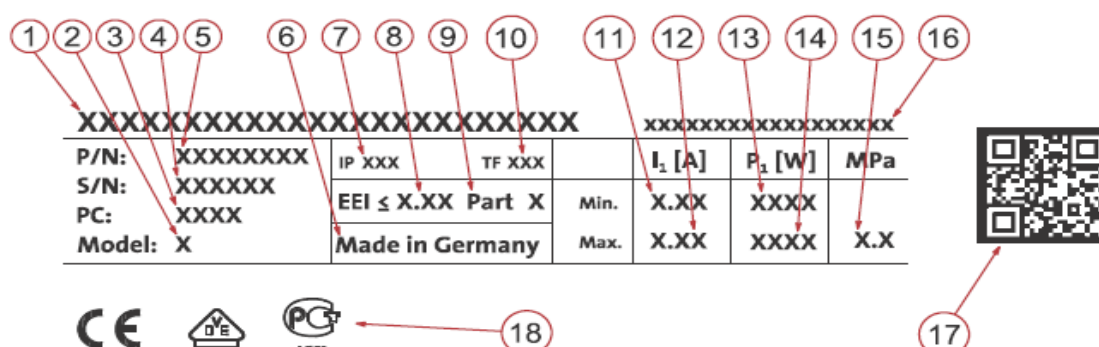
MAGNA3, MAGNA3 D

	£	Product Code
ALPHA plug (Straight)	21	98284561
Kit, Sensor DPS	105	99313067
Kit, sensor cable	511	99313072
Control box cover front end	OBSOLETE	98148727
Connector plugs for Magna 1 & 3	113	98357861

HEADS AND TERMINAL BOXES

PLEASE CONTACT GRUNDFOS WITH PUMPS QUOTING PN NUMBER FROM YOUR NAMEPLATE

The pump nameplate provides the following information:



Part 164

SOLOLIFT+

SOLOLIFT+ WC, WC-1 & WC-3

	£	Product Code
Hoses	365	96553016
Microswitch	150	96575698
Top cover	246	96553041
Wear parts	92	96553045
Spare box	365	96553054

SOLOLIFT+ CWC-3

	£	Product Code
Hoses	239	96553017
Microswitch	150	96575699
Top cover	232	96553042
Wear parts	106	96553046
Spare box	OBSOLETE	96553056

SOLOLIFT+ C-3

	£	Product Code
Hoses	239	96553017
Microswitch	150	96575710
Top cover	232	96553042
Wear parts	106	96553046
Spare box	OBSOLETE	96553057

SOLOLIFT+ D-3

	£	Product Code
Hoses	OBSOLETE	96553018
Microswitch	150	96575711
Top cover	OBSOLETE	96553043
Wear parts	38	96553047



SOLOLIFT+ range

SOLOLIFT2

SOLOLIFT2 WC-1 & WC-3

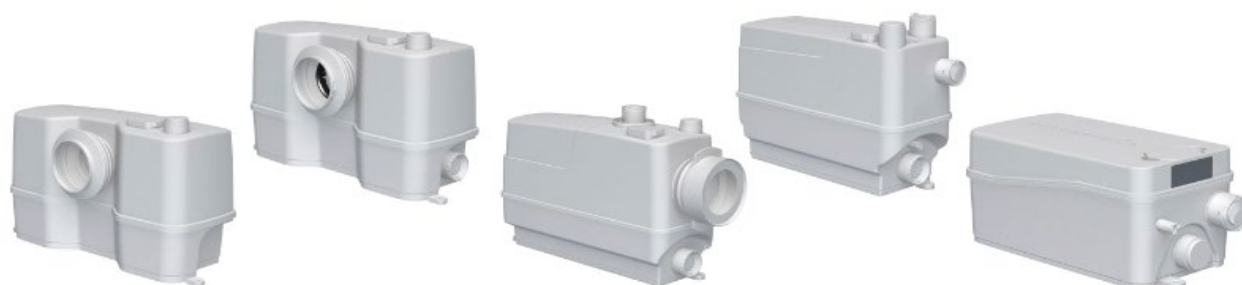
		£	Product Code
Discharge connector		43	98103367
Pressure switch		98	97775344
Capacitor		36	97775374
Carbon Filter, bulk	pack 5	29	97775370
Gasket for toilet connection (pan connector)		68	97775368
Non-return valve for outlet		24	97775371
Impeller		36	97775350
Inlet adapter		39	97775378
Blanking plug	(item C in instruction book)	36	97775304
WC-1 accessory kit	(supplied with unit)	131	98163942
WC-3 accessory kit	(supplied with unit)	99	97940294

SOLOLIFT2 CWC-3

		£	Product Code
Pressure switch		98	97775344
Capacitor		36	97775374
Carbon Filter, bulk	pack 5	29	97775370
Gasket for toilet connection (pan connector)		69	97775369
Non-return valve for outlet		24	97775371
Impeller		36	97775350
Inlet adapter		39	97775378
Blanking cover	(item C in instruction book)	36	97775304
Rubber parts	(item B in instruction book)	56	97775364
CWC -3 accessory kit (supplied with unit)		108	97767074

SOLOLIFT2 C-3 & D-2

		£	Product Code
Capacitor		21	97775375
Carbon Filter, bulk	pack 5	29	97775370
C-3 discharge Connector		25	98103364
C-3 impeller		34	97775352
D-2 impeller		32	97775354
C-3 Float switch kit		92	97775346
Non Return Valve for outlet		24	97775371
D-2 pressure switch kit		91	97775347
C-3 assessor kit	(supplied with unit)	123	98163965
D-2 accessory kit	(supplied with unit)	101	98163966



SOLOLIFT2 range

PUMP REPAIR KITS

UNILIFT CC

		£	Product Code
Impeller kit	Unilift CC5	32	96578967
	Unilift CC7	37	96578968
	Unilift CC9	41	96578969
Float switch	all models	62	96578970
	Unilift CC5	122	96578973
Motor kit	Unilift CC7	151	96578974
	Unilift CC9	197	96578975
O-ring kit	all models	19	98561387
Strainer	all models	45	96578990
Rubber flap valve	all models	22	97825322
Rubber flap valve (pack of 10)	all models	45	96578978

UNILIFT KP

		£	Product Code
Cable socket spanner		194	10757
Impeller kit	Unilift KP150	62	15778
	Unilift KP250	64	15779
Motor cable with float switch 10m	Unilift KP150, KP250 & KP350	155	16723
Motor cable with float switch 5m	Unilift KP150, KP250 & KP350	140	16724
Motor Cable without float switch 5m	Unilift KP150, KP250 & KP350	118	16725
Motor Cable without float switch 10m	Unilift KP150, KP250 & KP350	124	16726
Motor Cable with vertical float switch 5m	Unilift KP150 & KP250	167	16739
Non-return valve (single)		22	97825322
Non-return valve (pack of 10)		45	96578978

UNILIFT AP

			£	Product Code
Shaft seal	Unilift AP12, 35 & 50	NBR	231	96427804
	Unilift AP12, 35 & 50	FKM (Viton)	247	96426650
Float Switch 0.7m	Unilift AP12		121	96548101

UNILIFT AP B

			£	Product Code
Shaft seal	Unilift AP35B & 50B	NBR (standard)	204	96429307
	Unilift AP35B & 50B	FKM (Viton)	220	96429308
Cable entry repair kit	Automatic		130	96429309
	Manual		130	96429310

APG

		MODEL A		MODEL B	
50 Hz		£	Product Code	£	Product Code
	APG 50.09 / APG 50.11	339	96003308	578	96007169
	APG 50.09.Ex / APG 50.11.Ex	797	96003696	1,488	96007178
	APG 50.17 / APG 50.18 / APG 50.19	533	96003309	944	96007170
Wear parts kit	APG 50.19.3 Ex AND APG 50.31.3 Ex	717	96003310	1,123	96007171
	APG 50.31	722	96003311	725	96007172
	APG 50.48.3.Ex / APG 50.65.3.Ex / APG50.92.3.Ex			1,245	96005498
	APG 50.48.3.Ex / APG 50.65.3.Ex / APG50.92.3.Ex *			OBSOLETE	96005499

* Pump with moisture switch



Unilift AP float switch



Unilift CC discharge and non-return valve

MQ, JP, SCALA2

MQ

		£	Product Code
Shaft seal kit		128	96450696
O-ring kit		136	96526628
Hydraulic kit	50Hz models only	314	96525909
Fittings kit with non-return valve	G 1"	94	96577720
Fittings kit with non-return valve	NPT 1"	79	96634763
Pressure switch	MQ 3-35	106	96526653
Pressure switch	MQ 3-45	134	98652420
End-cover		OBSOLETE	96488398
Clamp		130	96450697
Flow sensor		110	96450698
Terminal box connection		OBSOLETE	96488399
Tank		216	98893507
Internal non-return valve		71	96526663
Electronic parts kit	230V 50Hz	248	96525934
Capacitor	12.5 µF	41	96590742
Drain plug		56	96457923

JP4

		£	Product Code
Bulk, pipe plug		27	99521030
Kit, hydraulic parts		125	98715217
Kit, lifting handle		27	99521000
Kit, motor cover		44	99521025
Kit, O-rings		18	99577668
Kit, pump housing		193	99521027
Kit, shaft seal		46	99520998
Spare, capacitor		18	99521052
Spare, motor fan cover		15	99577666

JP5

		£	Product Code
Shaft seal kit	model D	42	96768182
Shaft seal & gasket kit	model C	97	985742
Gasket kit	model B, D, E	47	96768180
Hydraulic parts/ejector	model B, D, E	167	96768184

JP6

		£	Product Code
Shaft seal kit	model D	42	96768182
Shaft seal & gasket kit	model C	97	985743
Gasket kit	model B, D, E	47	96768180
Hydraulic parts/ejector	model B, D, E	166	96768185

SCALA2

		£	Product Code
Shaft seal		67	99016024
O-rings		51	99016019
Drain plug, bulk	(10 pc)	59	99016065
O-ring for drain plug, bulk	(10 pc)	16	99016066
Drain plug and non-return valves		30	99016030
Chamber stack		89	99016032
Connection module		77	99016047
Cover for hydraulic		44	99016053
Cover complete		177	99016058
Fitting R1 and union, composite		29	99016013
Fitting NPT1 and union, composite		29	99016015
Pressure tank		112	99016027

CH, CHI, JP**CH(N) 2 & 4**

			£	Product Code
Shaft seal kit		CVBE/V	90	985164
		AQQE/V	180	96586305
		RUUE/V	146	985737
		AUUE/V	149	985848
Wear parts kit	CH 2	2-5 stages	98	435002
		6 stages	201	435039
	CH 4	2-4 stages	89	445004
		5-6 stages	212	445017

CH 8 & 12 - Model A & B

			£	Product Code
Shaft seal kit		CVBE/V	108	004N5012
		CVBE/V with neck rings	141	004N5013
		AQQE/V	177	96586306
		RUUE/V	157	96416348
Wear parts kit		CH 8-20/25/30	313	96604263
		CH 8-40/50/60	568	96604265
		CH 12-10/20/25/30	256	96604268
		CH 12-40/50/60	523	96604270

CHI(E) 2 & 4

			£	Product Code
Wear parts and shaft seal kit		BUBE / EPDM	291	004H5009
		BUBV / FKM	378	004H5010
		BQQE / EPDM	298	004H5007
		BQQV / FKM	253	004H5008

CHI(E) 8, 10 & 12

			£	Product Code
Wear parts and shaft seal kit		BQQE	359	004F5012
		BQQV	283	004F5013

CHI 15 & 20

			£	Product Code
Shaft seal kit		BQQE	303	96649924
		BQQV	304	96649925
Wear parts and shaft seal kit		BQQE	410	96293521
		BQQV	418	96293537

**CH****CHI**

CM / CME**CM / CME - A version (cast iron and 304 stainless steel wet components)**

			£	Product Code
Gasket & seal kit	CM 1, 3 & 5	AVBE/V	120	96932350
	CM 1, 3 & 5	AQQE/V	158	96932392
Gasket & seal kit	CM 10, 15 & 25	AVBE/V	141	96932393
	CM 10, 15 & 25	AQQE/V	183	96932394

CM / CME - I / G versions (304/316 stainless steel wet components)

			£	Product Code
Gasket & seal kit	CM 1, 3 & 5	AVBE/V	126	96932438
	CM 1, 3 & 5	AQQE/V	167	96932440
	CM 1, 3 & 5	AQKQ	1,002	96932441
Gasket & seal kit	CM 10, 15 & 25	AVBE/V	136	96932443
	CM 10, 15 & 25	AQQE/V	184	96932445
	CM 10, 15 & 25	AQKQ	1,643	96932446

CM / CME - all models

			£	Product Code
Drain/ fill plug kit		EPDM & FKM	70	96932395
		FFKM	85	96932396
Neck ring		CM 1, 3 & 5	72	96932397
		CM 1, 3 & 5 (low temperature)	120	96932447
		CM 10, 15 & 25	75	96932398
		CM 10, 15 & 25 (low temperature)	130	96932448
Motor bearing		MG(E) 71/80	116	96932399
		MG(E) 90	130	96932400
		MG(E) 100	138	96932412
		MG(E) 112	143	96932413
		MG(E) 132	167	96932414
			£	Product Code
Air separator chamber		CM-SP all models	66	98520101
Empty chamber 27mm		CM-SP all models	37	98520102
Empty chamber 18mm		CM-SP all models	35	98520103
Spacing pipe 13mm		CM-SP all models	32	98520104
Spare sleeve kit		CM-SP 1/3/5-3/4	179	98470942
Spare sleeve kit		CM-SP 1/3/5-5/6	207	98470943
Spare sleeve kit		CM-SP 5-7	229	98470949
Valve kit		CM-SP 4 meters	92	98519018
Valve kit		CM-SP 8 meters	95	98519013

CME Booster (CMBE)

		£	Product Code
Manometer	0-16 bar	155	98906914
Non return valve	1"	85	98906916
Non return valve	1" 1/2	101	98906917
Pressure tank	2 liter GT-H tank with Rp thread	99	98906908
Sensor kit	Sensor MBS 1900 0-10 bar	164	98906904

CH/JP BOOSTER SET

	£	Product Code
Kit, Manometer CMB PS/PT + JPB PT	59	98906913
Kit, 5 way fitting and Gasket	121	98777519
Spacer	OBSOLETE	96587201
Vibration damper	OBSOLETE	96588682
Rivet nut	OBSOLETE	00ID6262
Gasket PK4	OBSOLETE	96603455
Washer	16	00ID2292
Kit, Run Capacitor 20µF IPP	122	96898084
Flexible hose 730mm L) CH/24L	OBSOLETE	00ID3269
Spare, Arm. rubber hose for 50L Tank	102	98986867
Spare, Flexible pipe 20L CH Booster	OBSOLETE	98986791

CP			
CP 2			
		£	Product Code
Shaft seal and gasket kit	all models	500	985140
CP 3			
		£	Product Code
Shaft seal and gasket kit	all models	OBSOLETE	96549650
CP 3 (COLD WATER)			
		£	Product Code
Wear parts kit	1-6 stages	OBSOLETE	315413
	8-12 stages	OBSOLETE	315414
All other parts obsolete			
CP 8			
		£	Product Code
Shaft seal and gasket kit	all models	373	96549654
CP 8K (HOT WATER)			
		£	Product Code
Wear parts kit	1-4 stages	OBSOLETE	325252
	5-10 stages	OBSOLETE	325253
	12-20 stages	OBSOLETE	325254



CP pump

CR / CRI / CRN**CR / CRI / CRN 1, 3 & 5**

			£	Product Code
Shaft seal kit	HQQV	12 mm	242	96455087
	HQQE	12 mm	235	96455086
	HUUV	12 mm	240	96455085
	HUUE	12 mm	234	96455084
	HUBV	12 mm	221	96455083
	HUBE	12 mm	215	96455082
	HQBV	12 mm	220	96455089
	HQBE	12 mm	214	96455088
Gasket kit	FKM (Viton)		157	96455091
	EPDM		95	96455090
Coupling guard	MG 71-80		70	96505130
	MG 90-132		71	96505131
Plug	EPDM / FKM (Viton)		147	96505133
includes air vent, pipe and drain plugs				
			£	Product Code
Wear parts kit SiC	CR / CRI / CRN 1 & 3	up to 9 stages	334	96455095
	CR / CRI / CRN 1 & 3	10-19 stages	387	96455092
	CR / CRI / CRN 1 & 3	21-27 stages	539	96455093
	CR / CRI / CRN 1 & 3	30-36 stages	675	96455094
Wear parts kit SiC	CR / CRI / CRN 5	up to 7 stages	316	96455096
	CR / CRI / CRN 5	8-12 stages	382	96455097
	CR / CRI / CRN 5	13-16 stages	521	96455098
	CR / CRI / CRN 5	18-22 stages	640	96455099
	CR / CRI / CRN 5	24-26 stages	577	96455101
	CR / CRI / CRN 5	29-36 stages	806	96455100
all wear parts kit with silicon carbide bearings				

CR / CRN 2

		£	Product Code			£	Product Code
		CR 2				CRN 2	
Shaft seal and gasket kit	AUUE/V	249	405009	AUUE/V	248	985205	
	BUBE	158	405096	BUBE	158	405096	
	BUBV	156	405097	BUBV	156	405097	
Wear parts kit	Up to 9 stages	338	405098	Up to 9 stages	312	405130	
	10-18 stages	422	405099	11-15 stages	419	405131	
	22-26 stages	496	405100	18 stages	478	405158	
				22-26 stages	612	405132	
all wear parts kits with ceramic bearings							

CR / CRN 4

		£	Product Code			£	Product Code
		CR 4				CRN 4	
Shaft seal and gasket kit	AUUE/V	298	985202	AUUE/V	248	985205	
	BUBE	158	405096	BUBE	158	405096	
	BUBV	156	405097	BUBV	156	405097	
Wear parts kit	up to 6 stages	357	415286	up to 6 stages	291	415289	
	7-12 stages	377	415287	7-12 stages	357	415290	
	14-16 stages	449	415349	14-16 stages	457	415331	
	19-22 stages	547	415288	19-22 stages	673	415291	
all wear parts kits with ceramic bearings							

CR / CRI / CRN 1, 2, 3, 4 & 5

		£	Product Code
Coupling complete	14/12	85	415060
	19/12	85	415061
	24/12	145	415062
	28/12	180	415063
	38/12	257	415065

* Consult Grundfos Product Center for Service Kit Catalogue and Exploded view of the above items

CR / CRI / CRN**CR / CRN 8 & 16**

	£	Product Code	£	Product Code
	CR 8 & 16		CRN 8 & 16	
Shaft seal and gasket kit	AUUE/V	266	985204	
	BUBE	197	425062	
	BUBV	214	425063	
	CR 8		CRN 8	
Wear parts kit	1-6 stages	422	425066	
	8-12 stages	566	425067	
	14-20 stages	763	425068	
	CR 16		CRN 16	
Wear parts kit	2 to 6 stages	471	335078	
	7 to 10 stages	650	335079	
	12 to 16 stages	875	335080	
all wear parts kit with silicon carbide bearings				
			£	Product Code
Coupling complete	14/16		87	339114
	19/16		87	339119
	24/16		128	339124
	28/16		163	339128
	38/16		199	339138
	42/16		255	339142

CR / CRI / CRN 10, 15 & 20

		£	Product Code
Shaft seal kit	HQQV 16 mm	290	96511845
	HQQE 16 mm	283	96511844
	HUUUV 16 mm	289	96511841
	HUUE 16 mm	284	96511840
	HUBV 16 mm	272	96511837
	HUBE 16 mm	266	96511836
	HQBV 16 mm	278	96511849
	HQBE 16 mm	265	96511848
Gasket kit	FKM (Viton)	240	96509610
	EPDM	176	96509609
Coupling guard	MG 71-80	50	96509611
	MG 90-100	51	96509612
	MG 132	53	96509613
	MG 132	55	96509614
Plug for CR	EPDM / FKM (Viton)	181	96511311
Plug for CRI/CRN	EPDM / FKM (Viton)	166	96511312
includes air vent, pipe and drain plugs			

Coupling complete	14/16	100	96511315
	19/16	100	96511317
	24/16	147	96511319
	28/16	118	96511350
	38/16	228	96511351
	42/16	294	96511352

	£	Product Code		£	Product Code	
	CR / CRI / CRN 10			CR / CRI / CRN 15 & 20		
Wear parts kit SiC	up to 8 stages	360	96511889	up to 6 stages	403	96511824
	9-14 stages	508	96511922	7-10 stages	546	96511827
	16-22 stages	657	96511925	12-17 stages	689	96511830

* Consult Grundfos Product Center for Service Kit Catalogue and Exploded view of the above items

CR / CRN**CR30 & CR60 model A (Cone & Nut version)**

		£	Product Code
Shaft seal and gasket kit	AUUE/V	333	345015

CR30 & CR60 model B

		£	Product Code
Shaft seal and gasket kit	AUUE/V	401	345122
	BBUE	313	345180
	BBUV	354	345181

Coupling complete	24/22	OBSOLETE	345106
	28/22	OBSOLETE	345107
	38/22	321	345108
	42/22	330	345109
	48/22	OBSOLETE	345110

	£	Product Code		£	Product Code	
	CR 30			CR 60		
Wear parts kits	1-5 stages	OBSOLETE	345199	2-6 stages	OBSOLETE	365103
	6-8 stages	OBSOLETE	345200	7-8 stages	OBSOLETE	365104
	9-11 stages	OBSOLETE	345201			
	12-13 stages	OBSOLETE	345202			
	14-16 stages	OBSOLETE	345203			

CRN30 & CRN60 model B

		£	Product Code
Shaft seal and gasket kit	AUUE/V	399	345111
	BBUE	OBSOLETE	345208
	BBUV	OBSOLETE	345209

	£	Product Code		£	Product Code	
	CRN 30			CRN 60		
Wear parts kits	1-5 stages	OBSOLETE	345189	2-6 stages	OBSOLETE	365111
	6-8 stages	OBSOLETE	345190	7-8 stages	OBSOLETE	365112
	9-11 stages	OBSOLETE	345191			
	12-13 stages	OBSOLETE	345192			
	14-16 stages	OBSOLETE	345193			

**CR 30****ALL ABOVE CODES DISCONTINUED - AVAILABLE WHILE STOCKS LAST**

CR / CRN**CR, CRN 32, 45, 64, 90, 120 & 150**

				£	Product Code
Shaft seal kit	HQQV	22 mm		375	96525490
	HQQE	22 mm		368	96525458
	HUUUV	22 mm		419	96436728
	HUUE	22 mm		402	96436727
	HQBV	22 mm		347	96525459
	HQBE	22 mm		335	96525457
	HBQV	32 mm	For CR/CRN 120 & 150	1,180	95059801
	HBQE	32 mm	55kW & 75kW	1,180	95059800
Coupling complete	24/22	MG 90		316	96416589
	28/22	MG 100-112		319	96416590
	38/22	MG 132		323	96416591
	42/22	MG 160		326	96416592
	48/22	MG 180		329	96416593
	55/22	Siemens 200-225		333	96416594
	60/32	Siemens 250		863	95059812
	65/32	Siemens 280		872	95059813
	42/22 with key and keyway	MG 160		OBSOLETE	98987855
	48/22 with key and keyway	MG 180		329	96416593
Plug	EPDM / FKM (Viton)			167	96505136
includes air vent, pipe and drain plugs					
Coupling guards kit	motor frame 90-132			109	96505134
	motor frame 160-225-280			110	96505135
Sensor kit (suitable for all CR(I)E with sensor (AN version))	MBS3000	0-4 bar	G 1/2"	306	96428014
	MBS3000	0-6 bar	G 1/2"	306	96428015
	MBS3000	0-10 bar	G 1/2"	306	96428016
	MBS3000	0-16 bar	G 1/2"	306	96428017
	MBS3000	0-25 bar	G 1/2"	306	96428018

CR, CRN 32

		£	Product Code	£	Product Code
		model A		model B*	
Wear parts kit	1-2 stages	196	96416728	139	98497130
	3-7 stages	467	96416729	318	98497451
	8-11 stages	651	96416730	429	98497452
	12-14 stages	771	96416731	523	98497453
* all wear parts kit with graflon bearings					
Intermediate bearing kit	3-7 stages	OBSOLETE	96416574	N/A	
	8-14 stages	OBSOLETE	96416576	N/A	
Bottom bearing kit		274	96416580	N/A	
Gasket kit	EPDM			142	96416597
	FKM (Viton)			242	96416598

CR, CRN 45

		£	Product Code	£	Product Code
		model A		model B*	
Wear parts kit	1-2 stages	202	96416732	151	98497473
	3-7 stages	482	96416733	348	98497474
	8-10 stages	631	96416734	435	98497475
	11-13 stages	761	96472046	557	98497476
* all wear parts kit with graflon bearings					
Intermediate bearing kit	3-7 stages	OBSOLETE	96416577	N/A	
	8-13 stages	OBSOLETE	96416578	N/A	
Bottom bearing kit		274	96416580	N/A	
Gasket kit	EPDM			171	96416599
	FKM (Viton)			280	96416600

CR / CRN

CR, CRN 64

		£	Product Code	£	Product Code
		model A		model B*	
Wear parts kit	1-2 stages	216	96416735	181	98497494
	3-8 stages	570	96416736	433	98497495
* all wear parts kit with graflon bearings					
Intermediate bearing kit	3-8 stages	OBSOLETE	96416573	N/A	
Bottom bearing kit		274	96416580	N/A	
Gasket kit	EPDM	N/A		171	96416599
	FKM (Viton)	N/A		280	96416600

CR, CRN 90

		£	Product Code	£	Product Code
		model A		model B*	
Wear parts kit	1-2 stages	221	96416737	179	98497509
	3-6 stages	484	96416738	359	98497510
Intermediate bearing kit	3-6 stages	N/A		N/A	
Gasket kit	EPDM			198	96416601
	FKM (Viton)			339	96416602

CR, CRN 120 & 150

		£	Product Code
Gasket kit	EPDM	271	95059804
	FKM (Viton)	617	95059805

	£	Product Code		£	Product Code	
	CR, CRN 120			CR, CRN 150		
Wear parts kit	1 stage	305	95059806	1 stage	295	95059809
	2-4 stages	738	95059807	2-3 stages	626	95059810
	5-7 stages	1,134	95059808	4-6 stages	1,077	95059811

Replacement for old Exxx shaft seals on CR(N)(E) 32, 45, 64 & 90

HQQx shafts seals have replaced all Exxx seals.

Old type	New type
EUHE EUBE EUUE EQQE	HQQE
EUHV EUBV EUUV EQQV	HQQV
EUUK	HQQK



CR pumps

CR / CRN**CR, CRN 95, 125, 155**

		Motor flange size	£	Product Code
Kit coupling guard		FF265-350	129	99196379
		FF350-400	129	99196380
		FF400-600	132	99196381
		FF500-600	132	99196382

		Motor/pump shaft diameter	£	Product Code
Kit coupling, complete		38/22	304	99190032
		42/22	304	99190035
		48/22	255	99190038
		55/22	255	99190039
		60/22	405	99190040
		65/28	464	99190041
		65/36	429	99190044

		CR, CRN 95		CR, CRN 125, 155	
n° stages		£	Product Code	£	Product Code
Kit strap	1	72	99190046	75	99190058
	2	74	99190047	76	99190059
	3	76	99190048	78	99190060
	4	78	99190049	80	99190061
	5	80	99190050	83	99190062
	6	82	99190051	85	99190063
	7	84	99190052	87	99190064
	8	86	99190053	89	99190065
	9	88	99190054	92	99190066
	10	90	99190055	94	99190067
	11	92	99190056	96	99190068
	12	94	99190057	99	99190069

		CR, CRN 95 (PN30)		CR, CRN 95 (PN40)	
n° stages		£	Product Code	£	Product Code
Kit staybolt	1	91	99190078	OBSOLETE	99190086
	2	96	99190079	OBSOLETE	99190087
	3	101	99190080	144	99190088
	4	106	99190081	161	99190089
	5	111	99190082	178	99190090
	6	117	99190083	195	99190091
	7	122	99190084	212	99190092
	8	127	99190085	228	99190093
	9		N/A	245	99190094
	10		N/A	262	99190095
	11		N/A	279	99190096
	12		N/A	295	99190097

		CR, CRN 125,155 (PN30)		CR, CRN 125,155 (PN40)	
n° stages		£	Product Code	£	Product Code
Kit staybolt	1	120	99190098	OBSOLETE	99190105
	2	130	99190099	157	99190106
	3	137	99190100	180	99190107
	4	144	99190101	202	99190108
	5	160	99190102	225	99190109
	6	162	99190103	248	99190110
	7		N/A	271	99190111
	8		N/A	294	99190112
	9		N/A	316	99190113
	10		N/A	339	99190114
	11		N/A	362	99190115
	12		N/A	385	99190116

CR / CRN

CR, CRN 95, 125, 155

	Shaft diameter	Elastomer	£	Product Code
Kit shaft seal	22mm	HQQE	299	99262346
		HQQV	310	99262347
		HQBE	289	99262348
		HQBV	300	99262349
		HUUE	364	99416307
	28mm	HUUUV	374	99416308
		HQQE	648	99262350
		HQQV	886	99262351
		HQBE	692	99262352
		HQBV	930	99262353
	36mm	HUUE	1,800	99416318
		HUUUV	2,019	99416319
		HQQE	1,114	99262354
		HQQV	1,663	99262355
		HQBE	879	99262356
		HQBV	1,141	99262357
		HUUE	1,881	99416328
		HUUUV	2,127	99416329

	Shaft diameter	Elastomer	£	Product Code
Kit shaft seal, wear parts only	28mm	HQQE	264	99262358
		HQQV	530	99262359
		HQBE	323	99262360
	36mm	HQBV	577	99262361
		HQQE	333	99262362
		HQQV	690	99262363
		HQBE	355	99262364
		HQBV	772	99262365

	Elastomer	£	Product Code
Kit plug	EPDM	134	99262366
	FKM	135	99262367
	EPDM with TDH in base	151	99262370
	FKM with TDH in base	156	99262371

	Shaft seal diameter	Elastomer	£	Product Code
Kit o-ring	22mm	CR 95 EPDM	153	99262378
		FKM	246	99262379
		CR 125, 155 EPDM	168	99262380
		FKM	271	99262381
	28mm	CR 95 EPDM	165	99262384
		FKM	428	99262385
		CR 125, 155 EPDM	179	99262386
		FKM	453	99262387
	36mm	CR 125, 155 EPDM	184	99262392
		FKM	482	99262393

	£	Product Code
Kit bottom flange	619	99262396

			Shaft	SiC		WC		
			diameter	Stages	£	Product Code	£	Product Code
Kit bearing	CR, CRN 95	22mm	1	183	99262442	321	99415811	
			2-4	165	99262443	512	99415812	
			5-12	264	99262446	521	99415825	
	CR, CRN 95-155	28mm	1-4	375	99262444	426	99415823	
			5-12	652	99262447	750	99415826	
		36mm	1-4	OBSOLETE	99262445	505	99415824	
	5-12		OBSOLETE	99262448	865	99415827		

CR / CRN

CR, CRN 95, 125, 155

			£	Product Code
Kit Thrust Handling Device	CR 95	SiC/SiC	OBSOLETE	99262409
		WC/SiC	OBSOLETE	99445736
	CR 125	SiC/SiC	OBSOLETE	99262410
		WC/SiC	2,383	99445737
	CR 155	SiC/SiC	2,017	99262411
		WC/SiC	2,732	99445738

		Elastomer	£	Product Code
Kit o-ring for THD	CR 95	EPDM	142	99262397
		FKM	218	99262398
	CR 125	EPDM	154	99262399
		FKM	231	99262400
	CR 155	EPDM	156	99262401
		FKM	231	99262402

	Stages		Shaft diameter	£	Product Code
Kit wear parts	1-4	CR, CRN 95	22mm	239	99262415
			28mm	OBSOLETE	99262416
		CR, CRN 125	28mm	314	99262417
			36mm	OBSOLETE	99262418
		CR, CRN 155	28mm	393	99262419
			36mm	OBSOLETE	99262420
	5-8	CR, CRN 95	22mm	411	99262424
			28mm	OBSOLETE	99262425
		CR, CRN 125	28mm	575	99262426
			36mm	OBSOLETE	99262427
		CR, CRN 155	28mm	713	99262428
			36mm	OBSOLETE	99262429
	9-12	CR, CRN 95	22mm	OBSOLETE	99262433
			28mm	OBSOLETE	99262434
		CR, CRN 125	28mm	869	99262435
			36mm	OBSOLETE	99262436
		CR, CRN 155	28mm	1,110	99262437
			36mm	OBSOLETE	99262438

		Material	Size	£	Product Code
Kit loose flange	CR,CRN 95	Cast iron	DN100 PN16	147	99432754
			DN100 PN25/40	162	99432755
		Stainless steel	DN100 PN16	555	99432731
			DN100 PN25/40	644	99432732
	CR,CRN 125, 155	Cast iron	DN150 PN16	400	99432761
			DN150 PN25/40	391	99432760
		Stainless steel	DN150 PN16	767	99432733
			DN150 PN25/40	980	99432734

			£	Product Code
Spare base	CR 95	Loose flange	807	99196466
		Loose flange	1,816	99196467
	CRN 95	Collar flange PN16	2,625	99196468
		PJE flange	2,944	99196469
		Loose flange with THD	OBSOLETE	99196470
		PJE flange with THD	OBSOLETE	99196471
	CR 125, 155	Loose flange	1,059	99196472
		Loose flange	4,165	99196473
	CRN 125, 155	Collar flange PN10	4,072	99196474
		PJE flange	4,433	99196475
		Loose flange with THD	4,902	99196476
		PJE flange with THD	5,194	99196477

CR / CRN**CR, CRN 95, 125, 155**

		Shaft seal thread diameter	£	Product Code
Spare cover	CR 95	M50	1,453	99196493
	CRN 95	M50	1,453	99196494
		M66	OBSOLETE	99196495
	CR 125, 155	M50	577	99196496
	CRN 125, 155	M50	1,973	99196497
		M66	1,973	99196498

		CR 95 (PN30)		CRN 95 (PN30)	
n° stages		£	Product Code	£	Product Code
	1	340	99196401	372	99196419
	2	410	99196402	466	99196420
	3	496	99196413	579	99196421
	4	577	99196414	678	99196422
	5	718	99196415	838	99196423
	6	807	99196416	952	99196424
	7	928	99196417	1,083	99196425
	8	1021	99196418	1,194	99196426

		CR, CRN 125, 155 (PN30)	
n° stages		£	Product Code
	1	527	99196439
	2	707	99196440
	3	882	99196441
	4	1,100	99196442
	5	1,295	99196443
	6	1,500	99196444

		CRN 95 (PN40)		CRN 125, 155 (PN40)	
n° stages		£	Product Code	£	Product Code
	1	OBSOLETE	99196427	OBSOLETE	99196445
	2	OBSOLETE	99196428	820	99196446
	3	738	99196429	1,022	99196447
	4	861	99196430	1,265	99196448
	5	1019	99196431	1,510	99196449
	6	1155	99196432	1,779	99196450
	7	1279	99196433	1,681	99196451
	8	1414	99196434	2,309	99196452
	9	OBSOLETE	99196435	2,595	99196453
	10	OBSOLETE	99196436	2,842	99196454
	11	OBSOLETE	99196437	2,801	99196455
	12	OBSOLETE	99196438	OBSOLETE	99196456

CRT

CRT 2 & 4

	shaft Ø	£	Product Code
Coupling complete	14/12	85	415060
Coupling complete	19/12	85	415061
Coupling complete	24/12	145	415062
Coupling complete	28/12	180	415063
Coupling complete	38/12	257	415065

CRT 2

	Production date (yr wk)		£	Product Code
Shaft seal kit	before 0336	AUUE	352	405346
Shaft seal kit	before 0336	AUUV	317	405349
Wear parts kits	before 0336	2-10 stages	742	96434799
Wear parts kits	before 0336	11-18 stages	702	96434800
Wear parts kits	before 0336	22-26 stages	852	96434801
Shaft seal kit	after 0335	AUUE	356	96513598
Shaft seal kit	after 0335	AUUV	390	96513599
Wear parts kits	after 0335	2-9 stages	432	96513600
Wear parts kits	after 0335	11-18 stages	572	96513601
Wear parts kits	after 0335	22-26 stages	713	96513602

CRT 4

	Production date (yr wk)		£	Product Code
Shaft seal kit	before 0336	AUUE	352	405346
Shaft seal kit	before 0336	AUUV	317	405349
Wear parts kits	before 0336	1-6 stages	765	96434802
Wear parts kits	before 0336	7-12 stages	686	96434803
Wear parts kits	before 0336	14-16 stages	796	96434804
Wear parts kits	before 0336	19-22 stages	952	96434805
Shaft seal kit	after 0335	AUUE	356	96513598
Shaft seal kit	after 0335	AUUV	390	96513599
Wear parts kits	after 0335	1-6 stages	439	96513603
Wear parts kits	after 0335	7-12 stages	558	96513604
Wear parts kits	after 0335	14-16 stages	652	96513605
Wear parts kits	after 0335	19-22 stages	762	96513606



CRT

CRT**CRT 8 & 16**

				£	Product Code
Coupling complete	14/16	CRT 8 & 16		87	339114
Coupling complete	19/16	CRT 8 & 16		87	339119
Coupling complete	24/16	CRT 8 & 16		128	339124
Coupling complete	28/16	CRT 8 & 16		163	339128
Coupling complete	38/16	CRT 8 & 16	before 0405	199	339138
Coupling complete	42/16	CRT 8 & 16	before 0405	255	339142
Coupling complete	38/16 short	CRT 8 & 16	after 0404	228	96511351
Coupling complete	38/16	CRT 8 & 16	after 0404	OBSOLETE	96491088
Coupling complete	42/16 short	CRT 8 & 16	after 0404	OBSOLETE	96492113
Coupling complete	42/16	CRT 8 & 16	after 0404	294	96511352
Gasket kit	after 0404	CRT 8 & 16	FFKM	2,640	96545210

CRT 8

				£	Product Code
Shaft seal kit	before 0405	AUUE		463	425303
Shaft seal kit	before 0405	AUUV		429	425304
Wear parts kits	before 0405	1-8 stages		911	96434806
Wear parts kits	before 0405	10-14 stages		1,014	96434807
Wear parts kits	before 0405	16-20 stages		1,322	96434808
Shaft seal kit	after 0404	AUUE		480	96521638
Shaft seal kit	after 0404	AUUV		523	96521639
Wear parts kits	after 0404	1-6 stages	EPDM	578	96521680
Wear parts kits	after 0404	10-14 stages	EPDM	811	96521681
Wear parts kits	after 0404	17-20 stages	EPDM	1,058	96521682

CRT 16

				£	Product Code
Shaft seal kit	before 0405	AUUE		463	425303
Shaft seal kit	before 0405	AUUV		429	425304
Shaft seal kit	after 0404	AUUE		480	96521638
Shaft seal kit	after 0404	AUUV		523	96521639
Wear parts kits	before 0405	2-6 stages		1,133	96434809
Wear parts kits	before 0405	7-10 stages		1,168	96434810
Wear parts kits	before 0405	12-16 stages		1,562	96434811
Wear parts kits	after 0404	2-5 stages		581	96521686
Wear parts kits	after 0404	6-10 stages		841	96521687
Wear parts kits	after 0404	12-17 stages		1,125	96521688

**CRT pump**

CRK, SPK						
CRK 2 & 4						
				£	Product Code	
Shaft seal kit			AUUV		164	415080
			BUBV		161	415085
			AUUK		997	985720
Wear parts kit	CRK 2 model A, B & C	up to 18 stages	FKM		209	98311420
			EPDM		184	98311415
		up to 26 stages	FKM		312	98331664
			EPDM		184	98311415
	CRK 4	up to 12 stages	FKM		277	98311432
			EPDM		244	98311416
		up to 16 stages	FKM		370	98311435
			EPDM		337	98311417
		up to 22 stages	FKM		303	98311436
				EPDM	270	98311419
Rectangular flange					46	405178
CRK 8 & 16						
				£	Product Code	
Shaft seal kit			AUUV		216	425089
Wear parts kit	CRK 8 model B	2-8 chambers	1-8 impellers		327	425090
		10-14 chambers	1-14 impellers		512	425091
		16-20 chambers	1-20 impellers		509	425092
	CRK 16	2-6 chambers	1-6 impellers		286	335091
		7-10 chambers	7-10 impellers		415	335092
		12-16 chambers	12-16 impellers		567	335093
	CRK 30 & 60					
				£	Product Code	
Shaft seal kit					384	345294
Wear parts kit	CRK 30 model A	2-3 chambers	1-3 impellers		OBSOLETE	345290
		4-16 chambers	1 impeller			
		4-11 chamber	2-11 impellers		OBSOLETE	345291
		12-16 chambers	2-6 impellers			
		12-16 chambers	7-10 impellers		OBSOLETE	345292
	CRK 60	12-16 chambers	11-16 impellers		OBSOLETE	345293
		2-3 chambers	1-3 impellers		OBSOLETE	365196
		4-10 chambers	1 impeller			
		4-10 chambers	2-8 impellers		OBSOLETE	365197
SPK 2, 4 & 8						
				£	Product Code	
Shaft seal kit	SPK 1, 2 & 4 model C & D	CVBV			81	395008
		AUUV			141	395091
Wear parts kit	SPK 1, 2 & 4 model C & D	1-8 stages			289	395090
		9-23 stages			424	395089
	SPK 8	1-15 chambers	1 impeller		315	395093
		2-15 chambers	2-3 impellers	incl. SPK 8-5/5	331	395094
		7-15 chambers	5 impellers	excl.SPK 8-5/5	444	395095
			2-3 impellers	with extension pipe		
		7-15 chambers	7-9 impellers	excl. SPK 8-12/9	519	395096
		12-15 chambers	12-15 impellers		668	395097
		12 chambers	9 impellers	incl. SPK 8-12/9	640	395098
		15 chambers	5-15 impellers	with extension pipe		
Rectangular flange	SPK 1, 2 & 4 (model C & D)			60	395104	
	SPK 8			46	405178	

MTH, MTR

MTH

			£	Product Code
Shaft seal kit	MTH 2 & 4	AUUV	96	435045
		AQQV	101	98455535
	MTH 8, 12 & 16	AUUV	96	96431994
Wear parts kit	MTH 2	3-4 chambers	105	435032
		5-11 chambers	172	435033
	MTH 4	2-3 chambers	131	445057
		4-8 chambers	182	445058
	MTH 8, 12		558	96435991
	MTH 16		256	96435992

MTR 1S, 1, 3, 5 & 8

		£	Product Code
Shaft seal kit	HUUE	234	96455084
	HUUV	240	96455085
	HQQE	235	96455086
	HQQV	242	96455087
	HUUK	844	96533324
	HQQK	837	96533326

		EPDM		FKM		
		£	Product Code	£	Product Code	
Wear parts kit	MTR 1S, 1 & 3	2-9 chambers *	173	96530909	173	96530909
		10-19 chambers	267	98311342	300	98311373
		20-27 chambers	350	98311345	318	98311381
		29-36 chambers	436	98311346	485	98311382
		37-42 chambers	468	98311347	473	98311383
	MTR 5	43-49 chambers	505	98311348	510	98311384
		2-7 chambers *	218	96531003	218	96531003
		8-16 chambers	378	98311349	384	98311385
		17-22 chambers	412	98311350	575	98311386
		24-32 chambers	569	98311371	632	98311388
	MTR 8	2-7 chambers *	197	98788385	197	98788385
		8-16 chambers	259	98788386	265	98807648
		17-22 chambers	332	98788387	362	98807649
		24-31 chambers	465	98788388	455	98807650

* without o-ring

MTR 10, 15 & 20

		£	Product Code	
Shaft seal kit	HUUE	284	96511840	
	HUUV	289	96511841	
	HQQE	283	96511844	
	HQQV	290	96511845	
	HUUK	1,081	96511842	
	HQQK	1,031	96511846	
Wear parts kit	MTR 10	2-9 chambers	404	96531041
		10-16 chambers	566	96531042
		18-22 chambers	624	96531043
		23-27 chambers	540	97689849
		28-31 chambers	744	97689850
	MTR 15 & 20	2-9 chambeers	400	96531044
		10-17 chambers	582	96531045
		18-21 chambers	642	97689487

MTR					
MTR 32, 45 & 64 - model A					
			£	Product Code	
Shaft seal kit		HUUE	455	96441768	
		HUUV	368	96525458	
		HQQE	375	96525490	
		HQQV	402	96436727	
		HUUK	2,141	96533367	
		HQQK	2,121	96533369	
Wear parts kit	MTR 32	1-4 chambers	1-4 impellers	338	96430767
		5-8 chambers	1-3 impellers	352	96491254
		9-14 chambers	1-3 impellers	337	96491255
		5-8 chambers	5-8 impellers	584	96430768
		9-14 chambers	4-8 impellers	551	96491256
		9-14 chambers	9-12 impellers	825	96430769
	MTR 45	1-4 chambers	1-4 impellers	355	96430773
		5-8 chambers	1-3 impellers	362	96491257
		9-12 chambers	1-3 impellers	337	96491370
		5-8 chambers	4-8 impellers	615	96430775
		9-12 chambers	4-8 impellers	567	96491371
		MTR 64	1-4 chambers	1-4 impellers	351
	5-8 chambers		1-3 impellers	379	96491372
	9-12 chambers		1-3 impellers	359	96491373
	5-8 chambers		4-5 impellers	533	96430820
	9-12 chambers		4-5 impellers	498	96491374
	MTR 32, 45, 64 & 90 - model B				
			£	Product Code	
Shaft seal kit		HUUE	455	96441768	
		HUUV	368	96525458	
		HQQE	375	96525490	
		HQQV	402	96436727	
		HUUK	2,141	96533367	
		HQQK	2,121	96533369	
Wear parts kit	MTR 32	1-4 chambers	1-4 impellers	157	98628296
		5-8 chambers	1-3 impellers	169	98628298
		9-12 chambers	1-3 impellers	187	98628337
		5-8 chambers	5-8 impellers	231	98629661
		9-14 chambers	4-8 impellers	250	98629668
		9-14 chambers	9-14 impellers	325	98629669
		15-18 chambers	1-3 impellers	202	98629682
		15-18 chambers	4-8 impellers	265	98629683
	MTR 45	15-18 chambers	9-14 impellers	339	98629684
		1-4 chambers	1-4 impellers	190	98629686
		5-8 chambers	1-3 impellers	197	98629689
		9-12 chambers	1-3 impellers	186	98629690
		5-8 chambers	4-8 impellers	269	98629716
		9-12 chambers	4-8 impellers	267	98629718
		13-17 chambers	1-3 impellers	198	98629719
		13-17 chambers	4-8 impellers	278	98629732
	MTR 64	1-4 chambers	1-4 impellers	192	98629735
		5-8 chambers	1-3 impellers	205	98629736
		9-12 chambers	1-3 impellers	218	98629738
		5-8 chambers	4-5 impellers	209	98629739
		9-12 chambers	4-5 impellers	236	98629740
		13-17 chambers	1-3 impellers	238	98629741
		13-17 chambers	4-5 impellers	244	98629743

CLM / CLP / CDM / CDP / NM / NP / LM / LP / LMD / LPD
CLM / CLP / CDM / CDP model A (smooth base)

				£	Product Code
Shaft seal kit	32mm shaft	CLM 100 & CLM 125	BAQE	742	50608156
		CDM 125 & 150			
		CLP 65 & CLP 80 (11kW and above)	BQQE	1,973	96479822
		CDP 80 (11kW and above) & CDI			
Shaft seal kit	45mm shaft	CLM 150 & CLM 200	BAQE	1,260	50608158
		CDM 200 & 210			
		CLP 100	BQQE	2,071	96479823
		CDP 125			

CLM / CLP / CDM model B (ribbed base)

				£	Product Code
Shaft seal kit	33mm shaft	CLM 100 & CLM 125 CDM 125 & CDM 150	BBUE	723	50810108
			BQQE	1,318	96432382
			GQQE	2,304	96432384
Shaft seal kit	33mm shaft	CLM 150 & CLM 200 CDM 200 & CDM 210	BBUE	1,071	50810109
			BQQE	1,418	96432381
			GQQE	1,581	96432383

LM / LP (model C & D) / NM / NP

				£	Product Code
Shaft seal and gasket kit	16mm shaft	o'ring type (EPDM)	AUUE	408	485113
		bellows type (EPDM)	BUBE	258	485351
		reduced face for glycol mixes / chilled water	RUUE/V	363	985845
Shaft seal and gasket kit	22mm shaft	o'ring type (EPDM)	AUUE	450	485114
		bellows type (EPDM)	BBUE	462	485278
		reduced face for glycol mixes / chilled water	RUUE/V	403	985909
Shaft seal and gasket kit	33mm shaft	bellows type (EPDM)	BBUE	832	485353
		reduced face for glycol mixes / chilled water	GQQE	2,611	985624
Wear parts kit	16mm shaft	includes AUUE shaft seal and shaft		435	485125
	22mm shaft	includes AUUE shaft seal and shaft		767	485122
Wear parts kit	16mm shaft	includes BUBE shaft seal and shaft		427	485352
	22mm shaft	includes BBUE shaft seal and shaft		746	485279
Wear parts kit	33mm shaft	includes BUBE shaft seal and shaft		1,461	485354
	33mm shaft	includes BUUE shaft seal and shaft		1,449	485449
Flap valve for twin head pumps		LMD 50		388	485363
		LPD 65, LMD 65		OBSOLETE	485364
		LPD 80, LMD 80		OBSOLETE	485365
		LPD 100, LMD 100, LPD 125		OBSOLETE	485366
Coupling complete		14/16		87	339114
		19/16		87	339119
		24/16		128	339124
		28/16		163	339128
		28/22		OBSOLETE	345107
		38/22		321	345108
		42/22		330	345109


CDM pump

UMT, UPT

UMT(D) / UPT(D)

		Shaft diameter	Model	£	Product Code	
Shaft seal kit	AUUE	16mm	B, C, D	OBSOLETE	495063	
	BUBE	16mm	B, C, D	OBSOLETE	495078	
	RUUE/V	16mm	B, C, D	204	985844	
	BQQE	16mm	B, C, D	OBSOLETE	96436691	
	CVBE/V	12mm	A, B	148	495067	
Wear parts kits with shaft seal	-	16mm	A	OBSOLETE	985271	
	AUUE	16mm	B, C, D	OBSOLETE	495064	
	BUBE	16mm	B, C, D	OBSOLETE	495079	
	CVBE	UPT 25-50	12mm	A	OBSOLETE	96552581
	CVBE	UPT 25-50	12mm	B	OBSOLETE	96552567
	CVBE	UPT 25-90	12mm	A	OBSOLETE	96552582
	CVBE	UPT 25-90	12mm	B	OBSOLETE	96552568
	CVBE	UPT 32-30; 40-50	12mm	A	OBSOLETE	96552583
	CVBE	UPT 32-90; 40-90	12mm	A	OBSOLETE	96552584
	CVBE	UPTD 25/32/40-50;40-90	12mm	A	OBSOLETE	495068
	CVBE	UPTD 25/32/40-50;40-90	12mm	B	OBSOLETE	495083
				£	Product Code	
Coupling complete		14/16		87	339114	
		19/16		87	339119	
		24/16		128	339124	
		28/16		163	339128	
Flap valve for twin head pumps				OBSOLETE	545196	

Please check Grundfos Product Centre for complete pump service drawings



UMT and UPT range

TP

TP series 100 & 200

				£	Product Code	
Shaft seal kit	12mm shaft	Series 100 model A	TP 25-50/2; -80/2; -90/2	BUBE	157	96409293
			TP 32-50/2, -80/2, -90/2	BQQE	314	96508806
			TP 40-50/2, -80/2, -90/2	GQQE	354	96508807
	12mm shaft	Series 100 model B	TP 25 all	BUBE	182	98284949
			TP 32-50/2, -80/2, -90/2	BQQE	241	98284950
			TP 40-50/2, -80/2, -90/2	GQQE	260	98284961
	12mm shaft	Series 200	TP 32-60/2 TP 40-30/x	AUUE	169	96409264
				RUUE/V	244	96432881
				BQQE	301	96488632
				BQQV	326	96488634
				BUBE	237	96409265
				AUUE	171	96409266
	16mm shaft	Series 200	all others	RUUE/V	204	985844
				BQQE	330	98313337
Wear parts kit	Series 100 model A	TP 25-50/2	OBSOLETE	96408790		
		TP 25-90/2	OBSOLETE	96408791		
		TP 32-50, 40-50 /2	280	96408792		
		TP 32-90, 40-90 /2	OBSOLETE	96408793		
	Series 100 model B	TP 25-50	261	98284938		
		TP 25-80	259	98284939		
		TP 32-50; TP 40-50	238	98284941		
		TP 32-80; TP 40-80	239	98284942		
		TP 25-90, TP 32-90; TP 40-90	276	98284940		
	Series 200	TP 32-60/2	322	96414029		
		TP 40-60/4	266	96436361		
		TP 32-30/4	386	96414027		
		TP 32-40;	288	96414028		
		TP 32 -40, -60/4, -150, -180, -220, -230, -260, -330				
		TP 40 -80/4, -90/4, -160, -180, -190, -230, -270, -330, -390	293	96414031		
		TP 50 -60/4, -80/4, -120, -160, -180, -240				
		TP 65 -120, -160				
		TP 80 -30, -40, -60, -80	325	96409269		
		TP 100 except -160				
		TPE model B	TPE 25-50	227	98284943	
	TPE 25-80		213	98284944		
	TPE 32-50; TPE 40-50		282	98284945		
	TPE 32-80; TPE 40-80		248	98284946		
	TPE 25-90, TPE 32-90; TPE 40-90		276	98284940		
	Coupling complete		11/12	157	495081	
		14/12	85	415060		
		16/16	87	339114		
		19/16	87	339119		
		24/16	128	339124		
		28/16	163	339128		
Flap valve for twin head pumps		TPD 32	55	96407253		
		TPD 40	56	96407254		
		TPD 50	117	96407255		
		TPD 65	60	96407256		
		TPD 80	62	96407257		
		TPD 100	129	96407258		

For **blanking plates** for twin head pumps, please, consult Cat1 price list.



TP Series 100



TPD Series 200

TP

TP series 300

			£	Product Code
Shaft seal kit	BAQE		162	96488302
	BAQV		202	96548353
	BQQE		176	98434904
	BQQV		224	98434905
	BBQE		169	96551963
	GQQE		237	96488303
	GQQV		332	96504870
	DAQF		1,642	96548355

			£	Product Code
Shaft seal kit	BAQE		216	96537605
	BAQV		314	96548357
	BQQE		274	98434906
	BQQV		353	98434908
	BBQE	38mm shaft	241	96551928
	GQQE		378	96537606
	GQQV		636	96537608
	DAQF		1,901	96548359
	DQQE		3,189	97769897

			£	Product Code
Shaft seal kit	BAQE		332	96306475
	BAQV		1,048	96658801
	BQQE		491	98434943
	BQQV		706	98434944
	BBQE	55mm shaft	1,027	96658804
	GQQE		884	96306477
	GQQV		1,314	96658803
	DAQF		2,230	96658807
	DQQE		9,254	97685596

	Length	£	Product Code
Spacer ring for shaft seal	38mm shaft 15.5mm	126	96591277
	28mm shaft 7.5mm	105	96938597
	38mm shaft 10mm	89	96938599
	48mm shaft 15mm	120	96938602
	55mm shaft 22.5mm	129	96938604
	60mm shaft 17.5mm	170	96938606
	38mm shaft 15.5mm	156	96930797
	38mm shaft 10mm	156	96930797

		£	Product Code	£	Product Code
Gasket kit	177.39x3,53		EPDM (E)		FKM (V)
	221.84x3,53	62	97757659	53	97757697
	253.6x3,53	35	97757671	50	97757698
	278.99x3,53	37	97757672	71	97757699
	329.79x3,53	38	97757673	61	97757703
	430.66x3,53	40	97757675	76	97757705
		71	97757676	100	97757707

		£	Product Code
Gasket kit	177.39x3,53		FXM (F)
	221.84x3,53	356	97790022
	253.6x3,53	936	97790080
	278.99x3,53	955	97790081
	329.79x3,53	790	96887763
	430.66x3,53	996	96887764
		1,380	96887765

Confirm gasket kit PN for each pump model using the Grundfos Product Center

For **blanking plates** for twin head pumps, please, consult Cat1 price list.



TP Series 300

TP

TP series 300

		motor frame	£	Product Code	
Shaft kit	28mm shaft	71	505	96039349	
		80	531	96039350	
		90	544	96039351	
		100-112	564	96039352	
		132	647	96039353	
		160	726	96039354	
		180	806	96039355	
		200	854	96039356	
Shaft kit	38mm shaft	100-112	867	96039357	
		132	483	96039358	
		160	836	96039359	
		180	894	96039360	
		200	961	96039361	
		225-250	1,137	96537609	
		225 (2 poles)	806	96537610	
Shaft kit	48mm shaft	180-200	970	96306478	
		225	1,568	96306479	
Shaft kit	55mm shaft	180-200	1,039	96306488	
		225-250-280-315	1,998	96306480	
Wear ring kit	Bronze	TP 150 in pump housing	D185/D199x15	212	96810109
		TP 150 in cover	D154/D168x15	180	96797628
		TP 200 in pump housing	D224/D238x15	264	96810112
		TP 200 in cover	D224/D238x15	264	96810112

		£	Product Code	£	Product Code
		Flap valve		Cover	
Flap valve for twin head pumps	TPD, TPED 32, 40, 50	389	96488633	OBSOLETE	96476895
	TPD, TPED 65	390	96488631	OBSOLETE	96476895
	TPD, TPED 80	420	96537612	OBSOLETE	96506492
				OBSOLETE	96506493
	TPD, TPED 100, 125	501	96537613	OBSOLETE	96506494
	TPD, TPED 125, 150	595	96537614	OBSOLETE	96506495

TPE2, TPE2 D, TPE3, TPE3 D

		£	Product Code
Shaft seal kit	BUBE	166	98660102
	BQQE	397	98660103
	GQQE	395	98660104
	BUBV	177	98660105
	BQQV	318	98660106
	GQQV	546	98660107
Flap valve for twin head pumps	DN 32	140	98660108
	DN 40	146	98660109
	DN 50	150	98660110
	DN 65	157	98660111
	DN 80	165	98660112
	DN 100	195	98660113
Gasket kit	EPDM	60	98660099
	FKM	80	98811502
Air vent screw	all models	79	98164277
Bleed Screw	all models	30	96620482
Clamp	all models	175	98660114
Motor stool	all models	278	98660053
Sensor and cable	TPE3	255	98802463

NB, NK

NK - model A (for PN Kxxxxxxx and Dxxxxxxx)

		£	Product Code
Shaft seal kit	BAQE	28 mm	152 97904582
		38 mm	216 96537605
		48 mm	293 96591237
		65 mm	582 96591633
	GQQE	28 mm	237 96488303
		38 mm	378 96537606
		48 mm	OBSOLETE 96433691
		65 mm	845 96433692
	BQQE	28 mm	176 98434904
		38 mm	OBSOLETE 96537607
		48 mm	OBSOLETE 96587317
		65 mm	OBSOLETE 96422160
	BAQV	28 mm	105 97904583
		38 mm	OBSOLETE 96549067
		48 mm	623 96587314
		65 mm	OBSOLETE 96029562
	GQQV	28 mm	OBSOLETE 96433693
		38 mm	OBSOLETE 96433694
		48 mm	OBSOLETE 96433695
		65 mm	OBSOLETE 96433696
	BQQV	28 mm	176 97904586
		38 mm	OBSOLETE 96549066
		48 mm	639 96549069
		65 mm	OBSOLETE 96029558
	DAQF	28 mm	OBSOLETE 96505023
		38 mm	OBSOLETE 96505022
		48 mm	OBSOLETE 96504926
		65 mm	3,073 96504927
	DQQE	28 mm	OBSOLETE 96433681
		38 mm	OBSOLETE 96433682
		48 mm	OBSOLETE 96433683
		65 mm	OBSOLETE 96433684
	DQQV	28 mm	OBSOLETE 96433685
		38 mm	OBSOLETE 96433686
		48 mm	OBSOLETE 96433687
		65 mm	OBSOLETE 96433688



NK pump - model A

NB, NK

NB & NK - model B

		Pump material version: A, B, C, D, E, F, G, H, I, J, K, M, N, P, S, T, U, W		Pump material version: L and R		
		£	Product Code	£	Product Code	
Shaft seal kit	BAQE	28 mm	162	96488302	878	96658825
		38 mm	216	96537605	1,029	96658836
		48 mm	245	96306472	1,239	96658857
		55 mm	332	96306475	3,100	97769919
		60 mm	532	96658812	5,562	97769920
	GQQE	28 mm	237	96488303		
		38 mm	378	96537606		
		48 mm	667	96306474		
		55 mm	884	96306477		
		60 mm	895	96658814		
	BQQE	28 mm	176	98434904	1,047	96658826
		38 mm	274	98434906	1,515	96658837
		48 mm	373	98434909	2,048	96658858
		55 mm	491	98434943	1,691	97769927
		60 mm	876	98434945	3,384	97769928
	BAQV	28 mm	202	96548353	1,035	96658827
		38 mm	314	96548357	1,066	96658838
		48 mm	852	96658791	2,140	96658860
		55 mm	1,048	96658801	2,735	97769921
		60 mm	1,069	96658815	5,562	97769922
	GQQV	28 mm	332	96504870		
		38 mm	636	96537608		
		48 mm	1,117	96658793		
		55 mm	1,314	96658803		
		60 mm	1,579	96658817		
	BQQV	28 mm	224	98434905	1,298	96658828
		38 mm	353	98434908	1,392	96658839
		48 mm	488	98434941	2,069	96658861
		55 mm	706	98434944	1,691	97769929
		60 mm	1,296	98434947	3,640	97769930
	DAQF	28 mm	1,642	96548355	4,569	96658831
		38 mm	1,901	96548359	4,627	96658852
		48 mm	2,037	96658796	4,851	96658863
		55 mm	2,230	96658807	7,881	97536552
		60 mm	2,280	96658820	9,663	97536595
	DQQE	28 mm	3,145	97769895	8,243	97769896
		38 mm	3,189	97769897	9,189	97769898
		48 mm	5,207	97685509	9,736	97685510
		55 mm	9,254	97685596	12,703	97685597
		60 mm	10,388	97685598	13,704	97685599
	DQQV	28 mm	1,735	97769899	9,188	97769900
		38 mm	2,244	97769901	13,590	97769902
		48 mm	2,564	97685511	10,027	97685513
		55 mm	10,390	97685600	14,841	97685601
		60 mm	11,247	97685602	14,841	97685603
		Length	£	Product Code	£	Product Code
Spacer ring for shaft seal	38mm shaft	15.5mm	126	96591277	186	96938601
	28mm shaft	7.5mm	105	96938597	181	96938598
	38mm shaft	10mm	89	96938599	192	96938600
	48mm shaft	15mm	120	96938602	198	96938603
	55mm shaft	22.5mm	129	96938604	256	96938605
	60mm shaft	17.5mm	170	96938606	480	96938607
	38mm shaft	15.5mm	156	96930797	261	96930799
	38mm shaft	10mm	156	96930797	261	96930799

NB, NK**NB & NK - model B**

		Pump material version: A, B, C, D, E, F, G, H, S, T	
Dimensions	Material	£	Product Code
D63/D77x10	Bronze	92	96810098
D76/D90x10	Bronze	89	96810099
D90/D104x10	Bronze	94	96810100
D100/D114x10	Bronze	95	96810102
D112/D126x10	Bronze	99	96810103
D122/D136x10	Bronze	120	96810104
D130/D144x10	Bronze	131	96810106
D144/D158x15	Bronze	185	96810107
D154/D168x15	Bronze	180	96797628
D174/D188x15	Bronze	218	96810108
D185/D199x15	Bronze	212	96810109
D200/D214x15	Bronze	243	96810110
D210/D224x15	Bronze	261	96810111
D222/D272x15	Brass	659	96939611
D224/D238x15	Bronze	264	96810112
D230/D280x15	Brass	939	96939612
D240/D290x15	Brass	1,059	96939613
D250/D300x15	Brass	1,019	96939614
D260/D310x15	Brass	1,482	96939615

Wear ring kit

		Pump material version: I, J, K, L, M, N, P, R, U, W	
		£	Product Code
D63x10	DIN 1.4517	262	97939264
D76x10	DIN 1.4517	207	96810134
D90x10	DIN 1.4517	214	96810136
D100x10	DIN 1.4517	220	96810138
D112x10	DIN 1.4517	224	96810142
D122x10	DIN 1.4517	230	96810146
D130x13	DIN 1.4517	257	96810150
D154x15	DIN 1.4517	298	96810152
D144x15	DIN 1.4517	209	96810148
D185x15	DIN 1.4517	324	96810154
D174x10	DIN 1.4517	362	97939254
D200x10	DIN 1.4517	338	97939258
D210x15	DIN 1.4517	419	96887262
D224x15	DIN 1.4517	485	97739717

**NK and NB pumps - model B**

NB, NK**NB & NK - model B**

			£	Product Code
Gasket kit	EPDM (E)	177,39x3,53	62	97757659
		221,84x3,53	35	97757671
		253,6x3,53	37	97757672
		278,99x3,53	38	97757673
		329,79x3,53	40	97757675
		430,66x3,53	71	97757676
		456,06x3,53	40	97757677
		548x6	76	97757679
	FFKM (K)	177,39x3,53	739	97904674
		221,84x3,53	2,448	97904691
		253,6x3,53	2,216	97904677
		278,99x3,53	3,234	96887760
		329,79x3,53	3,418	96887761
		430,66x3,53	4,212	96887762
		548x6,00	10,007	97536606
	FKM (V)	177,39x3,53	53	97757697
		221,84x3,53	50	97757698
		253,6x3,53	71	97757699
		278,99x3,53	61	97757703
		329,79x3,53	76	97757705
		430,66x3,53	100	97757707
		456,06x3,53	121	97757708
		548x6	162	97757712
	HNBR (X)	177,39x3,53	186	97904675
		221,84x3,53	183	97904692
		253,6x3,53	183	97904678
		278,99x3,53	175	96887766
		329,79x3,53	432	96887767
		430,66x3,53	175	96887768
		548x6,00	173	97536609
	FXM (F)	177,39x3,53	356	97790022
		221,84x3,53	936	97790080
		253,6x3,53	955	97790081
		278,99x3,53	790	96887763
		329,79x3,53	996	96887764
		430,66x3,53	1,380	96887765
		456,06x3,53	3,285	97790102
		548x6,00	2,299	97536608

NB, NK
NK - model B

		£	Product Code
Spacer coupling complete	H80 D24/L100/D14	1,074	96579717
	H80 D24/L100/D19	1,074	96579719
	H80 D24/L100/D24	1,074	96579720
	H80 D24/L140/D24	1,171	96579721
	H80 D24/L100/D28	1,074	96579722
	H80 D24/L140/D28	1,171	96579724
	H95 D24/L100/D38	1,280	96579726
	H95 D24/L100/D42	1,280	96579731
	H95 D24/L140/D42	1,397	96579732
	H110 D24/L100/D48	1,393	96579733
	H110 D24/L140/D48	1,555	96579755
	H125 D24/L100/D55	1,538	96579763
	H125 D24/L140/D55	1,784	96579766
	H80 D32/L140/D24	1,173	96579785
	H80 D32/L140/D28	1,173	96579788
	H95 D32/L140/D38	1,404	96579800
	H95 D32/L140/D42	1,399	96579802
	H110 D32/L140/D48	1,606	96579803
	H125 D32/L140/D55	1,786	96579804
	H140 D32/L140/D60	2,236	96579805
	H160 D32/L140/D65	1,678	96579806
	H80 D24/L140/D19	OBSOLETE	96861578
	H95 D42/L140/D38	1,510	96861607
	H95 D42/L140/D42	1,438	96861609
	H110 D42/L140/D48	1,599	96861611
	H125 D42/L140/D55	1,835	96861613
	H140 D42/L140/D60	2,409	96861615
	H160 D42/L140/D65	2,849	96861617
	H200 D42/L140/D65	4,185	96861618
	H180 D42/L140/D75	3,672	96861623
	H200 D42/L140/D80	4,184	96861626
	H110 D48/L180/D48	1,903	96861631
	H125 D48/L180/D55	2,166	96861632
	H140 D48/L180/D60	2,858	96861633
	H160 D48/L180/D65	3,524	96861634
	H180 D48/L180/D70	4,242	96861636
	H180 D48/L180/D75	4,178	96861638
	H200 D48/L180/D80	4,755	96861640
	H225 D48/L180/D85	5,989	96861641
	H140 D60/L180/D55	2,573	96861646
	H140 D60/L180/D60	2,535	96861647
	H160 D60/L180/D65	3,148	96861648
	H180 D60/L180/D70	4,244	96861650
	H180 D60/L180/D75	4,180	96861651
	H200 D60/L180/D80	4,757	96861653
	H225 D60/L180/D85	5,991	96861654
	H250 D60/L180/D95	7,822	96861657
Coupling rubber parts for Flender spacer coupling	B/H80	75	96480015
	B/H95	88	96480016
	B/H110	100	96480017
	B/H125	92	96480018
	B/H140	132	96480019
	B/H160	161	96480040
	B/H180	211	96796254
	B/H200	229	96796255
	B/H225	262	96796259
	B/H250	315	96796260

SP					
SP1A & SP2A - model A					
			£	Product Code	
Wear parts kit		6 stages	Splined shaft	115	95054
		7-9 stages		121	55008
		10-15 stages		122	55009
		16-21 stages		146	95056
		22-26 stages		147	55010
		27-33 stages		176	55011
Wear parts kit		31-39 stages	Cone & nut (round shaft)	195	105059
		40-48 stages		252	95059
		49-60 stages		310	95060
		61-75 stages		329	95061
		76-90 stages		363	95062
SP3A & SP5A - model A					
			£	Product Code	
Wear parts kit	SP	1-6 stages	Splined shaft	115	95054
		7-9 stages		121	55008
		10-15 stages		122	55009
		16-21 stages		146	95056
		22-26 stages		147	55010
		27-33 stages		176	55011
Wear parts kit	SP; SP-N	5 stages	Cone & nut (round shaft)	OBSOLETE	105543
		6-10 stages		153	105544
		11-15 stages		OBSOLETE	55504
		16-24 stages		194	105546
		25-30 stages		195	105547
		31-39 stages		195	105059
		40-48 stages		252	95059
		49-60 stages		310	95060
		61-75 stages		329	95061
76-90 stages	363	95062			
Wear parts kit	SP-R	5 stages	Cone & nut (round shaft)	105	105969
		6-10 stages		108	105970
		11-15 stages		129	105971
		16-24 stages		186	105972
		25-30 stages		163	105973
		31-39 stages		197	105974
		40-48 stages		227	105975
		49-60 stages		265	105976
Wear parts kit	SP-NE	12 stages	Cone & nut (round shaft)	188	96440231
		25 stages		221	96440230
		33 stages		274	96440229
		45 stages		355	96440228
		60 stages		381	96440227
SP7 & SP9					
			£	Product Code	
Wear parts kit *	SP	1 stage		67	98766923
		2-5 stages		96	98766939
		6-10 stages		89	98766936
		11-25 stages		132	98766941
		26-50 stages		171	98766947

* The number of stages refers to the wear part kit. For some pump models, more than one wear part kit might be required.

SP							
SP8A - model A							
			£	Product Code		£	Product Code
			before 9444 (yyww)			after 9444 (yyww)	
Wear parts kit	SP SP-R	5-10 stages	OBSOLETE	115046		127	96428935
		12-18 stages	OBSOLETE	115047		173	96428936
		21-25 stages	OBSOLETE	115048		239	96428937
		28-37 stages	OBSOLETE	115103		250	96428938
Wear parts kit	SP-N	5-10 stages	OBSOLETE	115587		127	96428935
		12-18 stages	OBSOLETE	115588		173	96428936
		21-25 stages	OBSOLETE	115589		239	96428937
Wear parts kit	SP-NE	5-10 stages		425	115567	420	96428939
		12-18 stages		636	115568	666	96428940
		21-25 stages		799	115569	926	96428941
		26-37 stages		N/A		1,025	96441561
SP11A & SP14A							
						£	Product Code
Wear parts kit	SP	5 stages				192	75008
		7-13 stages				378	75009
		14-18 stages				452	75010
		20-25 stages				633	75011
Wear parts kit	SP -N	5 stages				163	75507
		7-13 stages				353	75508
		14-18 stages				430	75509
		20-25 stages				610	75510
SP11 & SP14							
						£	Product Code
Wear parts kit *	SP	1 stage				73	98766927
		2-5 stages				87	98766933
		6-10 stages				96	98766939
		11-25 stages				123	98766945
* The number of stages refers to the wear part kit. For some pump models, more than one wear part kit might be required.							
SP17 - model A							
						£	Product Code
Wear parts kit	SP; SP-N; SP-R	1-5 stages				307	96421723
		6-16 stages				400	96421724
		17-26 stages				520	96421725
		27-40 stages				752	96440238
		up to 50 stages				734	96488045
		up to 60 stages				680	96488046
Impeller with split cone and nut		SP				85	97506595
		SP -N				88	96903203
		SP -R				120	96903204
Split cone and nut		SP				123	97508279
		SP -N				51	96901911
		SP -R				46	96901953
Split cone with stop nut		SP				118	97508314
		SP -N				53	96901960
		SP -R				52	96901961
SP17 - model B							
			Standard bearings			Wear resistant bearings	
			£	Product Code		£	Product Code
Wear parts kit	SP; SP-N; SP-R	1-5 stages	337	97945520		330	98098277
		6-12 stages	403	97945521		462	98098278
		13-19 stages	463	97937872		504	98098279
		20-30 stages	428	97937873		524	98098280
		31-40 stages	513	97937874		642	98098311
		41-50 stages	542	97937875		757	98098312
		51-60 stages	616	97937876		870	98098313

SP					
SP30 - model A					
			£	Product Code	
Wear parts kit	SP; SP-N; SP-R	1-5 stages	222	96421732	
		6-16 stages	392	96421733	
		17-27 stages	482	96421734	
		28-39 stages	687	96440246	
		40-54 stages	890	96488047	
Impeller with split cone and nut		SP	59	97506691	
		SP -N	85	96903205	
		SP -R	135	96903206	
Split cone and nut		SP	69	97509658	
		SP -N	51	96901972	
		SP -R	60	96901973	
Split cone with stop nut		SP	87	97509673	
		SP -N	71	96901980	
		SP -R	91	96901981	
SP30 - model B					
		Standard bearings		Wear resistant bearings	
		£	Product Code	£	Product Code
Wear parts kit	SP; SP-N; SP-R	1-5 stages	280	317	98098314
		6-15 stages	400	509	98098315
		16-27 stages	553	676	98098316
		28-39 stages	682	865	98098317
		40-54 stages	764	1,099	98098318
SP46 - model A					
			£	Product Code	
Wear parts kit	SP; SP-N; SP-R	1-6 stages	431	96440248	
		7-10 stages	496	96440250	
		11-16 stages	589	96440252	
		17-24 stages	709	96440254	
		25-37 stages	639	96488048	
SP46 - model B					
		Standard bearings		Wear resistant bearings	
		£	Product Code	£	Product Code
Wear parts kit	SP; SP-N; SP-R	1-6 stages	339	348	98098319
		7-12 stages	424	511	98098320
		13-18 stages	506	576	98098321
		19-24 stages	587	687	98098322
		25-37 stages	683	914	98098323
SP60 - model A					
			£	Product Code	
Wear parts kit	SP; SP-N; SP-R	1-6 stages	579	96440369	
		7-10 stages	712	96440371	
		11-16 stages	808	96440373	
		17-22 stages	965	96440375	
		23-30 stages	985	96488049	
SP60 - model B					
		Standard bearings		Wear resistant bearings	
		£	Product Code	£	Product Code
Wear parts kit	SP; SP-N; SP-R	1-6 stages	335	345	98098324
		7-12 stages	420	461	98098325
		13-18 stages	502	573	98098326
		19-24 stages	531	684	98098327
		25-30 stages	582	789	98098328

SP				
SP77 - model C				
			£	Product Code
Wear parts kit	SP; SP-N; SP-R	1-8 stages	459	96440256
		9-14 stages	585	96440258
		15-22 stages	758	96440260
SP95 - model B				
			£	Product Code
Wear parts kit	SP; SP-N; SP-R	1-8 stages	582	96440715
		9-14 stages	708	96440716
		15-20 stages	722	96440717
SP125 - model C & D				
			£	Product Code
Wear parts kit	SP; SP-N; SP-R	1-4 stages	327	96440262
		5-6 stages	431	96440264
		7-10 stages	507	96440266
		11-17 stages	500	96488080
Impeller		SP	165	97506694
		SP -N	177	96903234
		SP -R	470	96903235
Reduced impeller		SP	147	97506727
		SP -N	184	96907105
		SP -R	468	96907107
Split cone with nut		SP	90	96903149
		SP -N	90	96903149
		SP -R	104	96903172
SP160 - model A & B				
			£	Product Code
Wear parts kit	SP; SP-N; SP-R	1-5 stages	411	205117
		6-9 stages	669	205118
		10-15 stages	476	96488081
Impeller		SP	174	97508270
		SP -N	157	96903236
		SP -R	485	96903237
Reduced impeller		SP	162	97508275
		SP -N	186	96907108
		SP -R	OBSOLETE	96907109
Split cone with nut		SP	90	96903149
		SP -N	90	96903149
		SP -R	104	96903172
SP215 - model B & C				
			£	Product Code
Wear parts kit	SP; SP-N; SP-R	1-2 stages	382	185033
		3-4 stages	442	185034
		5-7 stages	651	185035
		8-11 stages	730	185036
Impeller		SP	196	97508277
		SP -N	239	96903238
		SP -R	354	96903239
Reduced impeller		SP	222	97508278
		SP -N	305	96907110
		SP -R	353	96907111
Split cone with nut		SP	142	97524682
		SP -N	129	96903175
		SP -R	210	96903176

MS, MMS, SQ, SQE

SP 4" MOTOR CABLE

		£	Product Code
MS402 cable, 4G 1.5mm ² , 1.7m	plug connection one end	107	95920882
MS4000 Cable, 4G 1.5mm ² , 1.7m	plug connection both ends	112	95920909
MS4000 cable, 4G 1.5mm ² , 1.7m	plug connection one end	77	95920889
MS4000 cable R, 3x1x AWG14,	plug connection both ends	167	95920942

SP 6" MOTOR CABLE

		£	Product Code
MS6000 cable, 4 G 6mm ² , 5m		195	95920945
MS6 Cable 3 x 4 + 1 G 4mm ² , 5m 5.5 - 9.2 kw		OBSOLETE	96163690
MS6 Cable 3 x AWG 8 + 1 G AWG 8, 5m 11kw - 30kw		OBSOLETE	96163691

Motor cables for SP pumps please call with pump / motor details, have different connections on motors



SQ, SQE - model B

				£	Product Code
Wear part kit	SQ(E)-N1-35 to 95			299	96479862
	SQ(E)-N1-110 to 155			482	96479864
	SQ(E)-N2- 35 to 70			267	96479866
	SQ(E)-N2- 85 to 130			369	96479868
	SQ(E)-NE2- 35 to 65			535	96439551
	SQ(E)-NE2- 75 to 115			950	96439552
	SQ(E)-N3- 30 to 55			267	96479869
	SQ(E)-N3- 65 to 105			372	96479870
	SQ(E)-N5 15 to 35			275	96479871
	SQ(E)-N5 50 to 70			381	96479873
	SQ(E)-NE5 15 to 35			559	96439560
	SQ(E)-NE5 45 to 65			941	96439561
SQ(E)-N7 15 to 55			273	96479874	
Valve casing complete	Standard			158	96427517
	NE			240	96439570
Motor cable model B	Standard	1.5 m	3x1.5 mm ²	67	96160869
		5 m	3x1.5 mm ²	OBSOLETE	96160870
		10 m	3x1.5 mm ²	OBSOLETE	96160871
	NE	1.5 m	3x12 AWG	162	96160882
		5 m	3x12 AWG	OBSOLETE	96160883
		10 m	3x12 AWG	OBSOLETE	96160884



SQ pump

BOOSTERS SPARES

HYDRO 2000

	£	Product Code
PFU 2000/4 TIL MS, MSH (STANDARD PUMPS)	OBSOLETE	625234
PFU 2000/9 TIL MF,MFH,ME,MEH,MES(E PUMPS)	2,654	625243
PFU 2000 EPROM MS (FIXED)	SPECIAL ORDER ONLY	96591305
PFU 2000 EPROM ME (VARIABLE SPEED)	SPECIAL ORDER ONLY	96591307

HOME BOOSTER

	£	Product Code
Pump CM 3-4 l for 3.5 Bar	674	96934524
Pump CM 3-6 l for 4.5 Bar	814	96959353
PM2 Controller	238	96848740
8 Litre Pressure Vessel	74	96526321
Automatic Air Vent, Brass WRAS	49	97909984
22mm JG Plastic Service Valve	49	97563994
Ballcock & Overflow (Mains Inlet) Kit	217	97939412
Internal Hoses Kit (both models)	278	97939421

MINI MONOPRESS

	£	Product Code
SOLENOID PUMP ET508LA	OBSOLETE	GBOP0001
PIPE KIT-MINI MONOPRESS WITHOUT HIGH/LOW	93	98155765
PIPE KIT-MINI MONOPRESS C/W HIGH/LOW P.S	130	98155768
PIPE KIT-MINI DUOPRESS C/W HIGH/LOW P.S	OBSOLETE	98155769
WIRE KIT-MINI MONOPRESS WITHOUT HIGH/LOW	OBSOLETE	98155781
WIRE KIT-MINI MONOPRESS C/W HIGH/LOW P.S	OBSOLETE	98155784
WIRE KIT-MINI DUOPRESS C/W HIGH/LOW P.S	OBSOLETE	98155787

IMPRESS

	£	Product Code
Pressure sensor RPS 0-10bar complete with fittings and 1.2m cable	OBSOLETE	96625387
Cabinet panel cpl. (programmed)	OBSOLETE	98431258
Cabinet top and front panels	361	98675080
STD Control Panel 1 Pump	2,019	96982873
ADV Control Panel 1 Pump	OBSOLETE	96982872
ADV Control Panel 2 Pump	2,396	97549894
STD PLC Controller (programmed)	251	97773064
ADV PLC Controller (programmed)	413	97773065
Power Supply Unit	128	98674679
Touch-screen STD (programmed)	OBSOLETE	97924046
Touch-screen ADV (programmed)	1,107	97924045
Hoses kit	25	98675140
Single Pump Manifold	293	98675157
Dual Pump Manifold	386	98675158
Non-return valve 1/2" MI / 1/2" FI CIM32	19	GBNR0013
Low pressure switch XP73B642	112	GBPS2202
Control pressure switch BARKSDALE	OBSOLETE	GBPS2201
Float switch	87	GBPS0070

PRESSURE SWITCHES

	£	Product Code
KPI 35 PRESSURE SWITCH (-0.2 - 8 BAR was Sopac)	226	GBPS0010
Press. switch. Telemechanique, 1 ph /sp	OBSOLETE	96578668

MISCELLANEOUS

	£	Product Code
Transducer 6 bar	OBSOLETE	GBTD0006
Transducer 10 bar	281	GBTD0010

BOOSTERS

	£	Product Code
Transducer 0-4 bar	123	99257373
Transducer 0-10 bar	123	99257835
Pressure Gauge	93	99327758
Booster Cable	55	99257837

MOTORS

MG

			£	Product Code
Bearing kit	6204.SYN/6201.SYN		36	96279730
	6304.SYN/6201.SYN		36	96279741
	6305.SYN/6205.SYN		45	96279794
	6306.SYN/6205.SYN		51	96279795
	6306.SYN/6206.SYN		59	96279796
	6308.SYN/6206.SYN		71	96279797
	7306.BE.SYN/6206.SYN		91	96279802
	7308.BE.SYN/6206.SYN		112	96279803
	6308.SYN/6206.SYN		84	96796600
	7308.BE.SYN/6206.SYN		114	96796642
	6309.Z.C4/6309.Z.C4		131	96796674
	7309.BE/6309.Z.C4		148	96796676
	6310.Z.C4/6310.Z.C4		149	96796811
	7310.BE/6310.Z.C4		156	96796812
	6308.SYN/7306.BE_SF		114	96830797
Shaft seal	MG 132 model F/H	V-ring (IP 55)	35	96843458
	MG 132 model F/H	Gamma ring (IP 66)	52	96796191
	MG 160	V-ring (IP 55)	52	96843459
	MG 160	Gamma ring (IP 66)	52	96796191
	MG 180	V-ring (IP 55)	58	96843460
	MG 180	Gamma ring (IP 66)	87	96796802
Terminal board	MG 132 model F/H, MG 160, MG 180		52	96796657
Terminal box cover	MG 132 model F/H		48	96279772
	MG 160, MG 180		80	96796659
Fan	MG 132 model F/H	Ø 128 mm	35	96796189
	MG 132 model F/H	Ø 158 mm	35	96796190
	MG 160	Ø 210 mm CW	73	96796654
	MG 160	Ø 215 mm CW	52	96796650
	MG 160	Ø 210 mm CCW	52	96796648
	MG 160	Ø 215 mm CCW	73	96796652
	MG 180	Ø 240 mm CW	63	96796790
	MG 180	Ø 270 mm CW	87	96796791
	MG 180	Ø 240 mm CCW	63	96796716
	MG 180	Ø 270 mm CCW	87	96796718
Grease nipple	MG 132 model F/H, MG 160, MG 180		42	96796671
Bearing cover	MG 160		42	96796664



MG motors

MOTORS

MGE - Model H, I and J

			£	Product Code
Ball bearing kit	6204.SYN/6204.SYN		63	98330603
	6304.SYN/6204.SYN		66	98330604
	6305.SYN/6204.SYN		70	98330605
	6306.SYN/6204.SYN		73	98330606
	6204.HYB/6204.HYB		198	98330608
	6304.HYB/6204.HYB		344	98330609
	6305.HYB/6204.HYB		330	98330610
	6306.HYB/6204.HYB		337	98330611
	6305.2Z.C3.SYN+6205		38	98881507
	6306.2Z.C3.SYN+6205		39	98881508
	6306.2Z.C3.SYN+6206		58	98881509
	6308.2Z.C3.SYN+6206		72	98881510
	6308.2Z.C3.SYN+6306		107	99124389
	6308.2Z.C3.SYN+6206		68	98881521
	6309.Z.C3+6306		83	98881522
	6207.2Z.C3+6205		51	98881523
	7306+6206		100	98881524
	7308+6206		111	98881525
	6308+6306		87	99099338
	7309+6306		104	98881526
	6306.2Z.C3.SYN+7306		99	98881527
	6308.2Z.C3.SYN+7306		117	98881528
	6309.Z.C3+7306		93	98881529
	6309.2Z.C3+6306		157	99177551
Hybrid ball bearing kit	6305.2Z.C3.SYN+6205		355	98881530
	6306.2Z.C3.SYN+6205		355	98881531
	6306.2Z.C3.SYN+6206		373	98881532
	6308.2Z.C3.SYN+6206		572	98881533
	6308.2Z.C3.SYN+6206		566	98881534
	6308+6306		549	99124391
	7306+6206		1,089	98881537
	7308+6206		707	98881538
	6306.2Z.C3.SYN+7306		815	98881540
	6308.2Z.C3.SYN+730		1,017	98881541
	6309.Z.C3+7306		2,249	98881542
7309+6306		1,170	99123455	
Blanking plug, kit	Small		43	99052475
	Large		47	99052476
Shaft seal	MGE 71/80		40	98334779
	MGE 90		33	98334780
Cable glands	1xD7-14 & 2xD5		42	98337336
	1xD7-14 & 4xD5		OBSOLETE	98337337
	1xD7-14 & 6xD5		48	98337338
	10xD7-14		55	98337339
	10xD5 single entry		51	98337340
	10xD5 double entry		61	98337341
Cable glands adapter			68	98345796
Connector plugs			68	98403113
Cover for CIM			16	98330622
Fan	1500-2000 rpm	all models	68	98290123
	2900-4000 rpm	≤ 1.1kW	68	98290123
	2900-4000 rpm	> 1.1kW	68	98290124
	4000-5900 rpm	all models	68	98290123
Fan cover		all models	OBSOLETE	98330566

MGE - Model F

		£	Product Code
Connector plugs		55	96348923
TPED add-on card		351	96348931
Terminal box	11 kW	5,364	96348913
	15 to 22 kW	7,528	96348914

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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