

# Grundfos Domestic & Commercial HVAC Price List June 2022 Category 1



## PRODUCTS INCLUDED:

ALPHA3

UPS3

MAGNA

TP(E)D

KP/AP/Unilift

SOLOLIFT2

SCALA2

CUE



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

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

### MINIMUM ORDER VALUE

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

### EXPRESS DELIVERY OPTIONS;

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

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

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

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

#### SPARESPEED (PER ITEM)

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

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

### SPARES STANDARD DELIVERY CHARGE

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

### PRODUCT RETURNS FEE

- On receipt of written agreement from Grundfos, items can be returned and will be subject to a minimum **35%** restocking fee. Goods must be returned in their original packaging and within **6 months of date of despatch**. All returns will be subject to inspection, to ascertain age, condition and product type and can incur an increased restocking charge. Please contact [grundfos-uk@sales.grundfos.com](mailto: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 1<sup>st</sup> March 2017 SCALA2 booster pumps when used in domestic applications were included.
- From 1<sup>st</sup> 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](mailto: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](mailto:grundfos-uk@sales.grundfos.com). Self-registration for MyGrundfos can be found here; <https://uk.grundfos.com/mygrundfos>

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## CATEGORY 1 - DOMESTIC HEATING CIRCULATORS

### DOMESTIC HEATING PRODUCTS

Model	Pump Ports	£	240V 1ph 50Hz Product Code
UPS3 15-50/65	No fittings	POA	99199622
ALPHA1 15-50/60 Model B	No fittings	POA	99415672
ALPHA3 15-50/60 Model B *	No fittings	POA	99371966

#### Light commercial

UPS2 25-80	No fittings	POA	98707848
UPS2 32-80	No fittings	POA	98707851

ALPHA Reader MI401 **	POA	98916967
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Union sets for pumps supplied with no fittings are listed separately and need to be ordered as an extra item.

\* - ALPHA3 Model B has integrated communication, separate reader not required.

\*\* - ALPHA Reader only for use with ALPHA3 Model A and Grundfos GO Balance mobile application

Mobile applications:  
Grundfos GO Balance  
Grundfos GO Remote

## CATEGORY 1 - UP(N)/UPS(N) HOT WATER SERVICE CIRCULATORS

### HOT WATER SERVICE CIRCULATORS

WRAS Approved

Model	Pump Ports	£	240V 1ph 50Hz Product Code
ALPHA1 15-50N Model B	No fittings	POA	99415696
UPS 15-50N	No fittings	423	97549426
UP 20-07N	No fittings	417	98057201
UP 20-15N	No fittings	463	98057205
UP 20-30N	No fittings	478	98057221
UP 20-45N	No fittings	519	98057222

Model	Pump Ports	£	240V 1ph 50Hz Product Code
UPS 25-55N	No fittings	705	95906772
UPS 25-80N	No fittings	845	98057227
UPS 32-55N	No fittings	976	95906773
UPS 32-80N	No fittings	1,115	98057247
UPS 32-100N	No fittings	1,205	98057249
UPS 40-50F N	No flanges	1,219	98057242
UPS 40-80F N	No flanges	1,464	95906774

Only the highlighted pump is now available in yellow with a stainless steel body and silver nameplates.

Union sets, valves and flange sets for pumps supplied with no fittings/flanges are listed separately and need to be ordered as an extra item.

### COMFORT HOT WATER SERVICE CIRCULATORS

WRAS Approved

Model	£	240V 1ph 50Hz Product Code
COMFORT 15-14 B PM GB	280	99164484
COMFORT 15-14 BA PM GB	462	99164487

Note: Comfort Hot Water Series Circulators should only be fitted into "pressurised" HWS circulation circuits.



## CATEGORY 1 - ACCESSORIES

### UNIONS/VALVE SETS

UP/MAGNA/TP

Item	Pumps	£	Product Code
3/4" BSP Brass Union Set	UP20N	47	529982
22mm Isolating Valve	UP20N	44	519801
1" BSP Brass Union Set	UPS15N, UPS25N, TP25-xx/2 R	19	529972
1 1/4" BSP Brass Union Set	UPS32N, TP32-xx/2 R	122	509971
Union set, thread G1 1/2xRp1 CI FZG	UPS2 25-80, MAGNA1/3 25, TP25	14	99672022
1 1/4" BSP Special Union Set	UPS2 25-80, MAGNA1/3 25, TP25	52	529821
Union set, thread G2xRp1 1/4 CI FZG	UPS2 32-80, MAGNA1/3 32, TP32	14	99672033
1 1/2" BSP PN10 Bronze Flange Set	UP40-xx F N	1156	539910
Valve kit COMFORT (Isolating and Non-return)	COMFORT 15-14 B/BA	54	00ID8748

## CATEGORY 1 - MAGNA1 VARIABLE SPEED CIRCULATORS

### SINGLE HEAD MAGNA1 VARIABLE SPEED CIRCULATORS

### MAGNA1

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA1 25-40	1½" BSPM	633	99221216
MAGNA1 25-60	1½" BSPM	751	99221217
MAGNA1 25-80	1½" BSPM	855	99221213
MAGNA1 25-100	1½" BSPM	947	99221214
MAGNA1 25-120	1½" BSPM	1,065	99221215
MAGNA1 32-40	2" BSPM	779	99221233
MAGNA1 32-60	2" BSPM	910	99221234
MAGNA1 32-80	2" BSPM	947	99221235
MAGNA1 32-100	2" BSPM	1,040	99221236
MAGNA1 32-40F	32mm Flanged	857	99221263
MAGNA1 32-60F	32mm Flanged	1,002	99221269
MAGNA1 32-80F	32mm Flanged	1,052	99221275
MAGNA1 32-100F	32mm Flanged	1,211	99221237
MAGNA1 32-120F	32mm Flanged	1,618	99221285
MAGNA1 40-40F*	40mm Flanged	1,067	99221291
MAGNA1 40-60F*	40mm Flanged	1,171	99221292
MAGNA1 40-80F*	40mm Flanged	1,550	99221303
MAGNA1 40-100F*	40mm Flanged	1,767	99221304
MAGNA1 40-120F	40mm Flanged	1,961	99221305
MAGNA1 40-150F	40mm Flanged	2,396	99221306
MAGNA1 40-180F	40mm Flanged	2,755	99221307
MAGNA1 50-60F**	50mm Flanged	2,082	99221333
MAGNA1 50-80F	50mm Flanged	2,291	99221334
MAGNA1 50-100F	50mm Flanged	2,426	99221335
MAGNA1 50-120F	50mm Flanged	2,560	99221336
MAGNA1 50-150F	50mm Flanged	2,950	99221337
MAGNA1 50-180F	50mm Flanged	3,460	99221338

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA1 65-40F	65mm Flanged	2,216	99221382
MAGNA1 65-60F	65mm Flanged	2,531	99221371
MAGNA1 65-80F	65mm Flanged	2,755	99221372
MAGNA1 65-100F	65mm Flanged	2,906	99221373
MAGNA1 65-120F	65mm Flanged	3,114	99221374
MAGNA1 65-150F	65mm Flanged	3,592	99221375
MAGNA1 80-60F	80mm Flanged	2,921	99221406
MAGNA1 80-80F	80mm Flanged	3,144	99221407
MAGNA1 80-100F	80mm Flanged	3,428	99221408
MAGNA1 80-120F	80mm Flanged	3,846	99221409
MAGNA1 100-40F	100mm Flanged	3,114	99221438
MAGNA1 100-60F	100mm Flanged	3,399	99221439
MAGNA1 100-80F	100mm Flanged	3,682	99221440
MAGNA1 100-100F	100mm Flanged	4,012	99221441
MAGNA1 100-120F	100mm Flanged	4,551	99221442



### TWIN HEAD MAGNA1 VARIABLE SPEED CIRCULATORS

### MAGNA1 D

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA1 D 32-40	2" BSPM	1,528	99221238
MAGNA1 D 32-60	2" BSPM	1,752	99221239
MAGNA1 D 32-80	2" BSPM	1,924	99221240
MAGNA1 D 32-100	2" BSPM	2,006	99221241
MAGNA1 D 32-40F	32mm Flanged	1,684	99221267
MAGNA1 D 32-60F	32mm Flanged	1,969	99221273
MAGNA1 D 32-80F	32mm Flanged	2,005	99221279
MAGNA1 D 32-100F	32mm Flanged	2,307	99221242
MAGNA1 D 32-120F	32mm Flanged	3,273	99221286
MAGNA1 D 40-40F*	40mm Flanged	2,098	99221293
MAGNA1 D 40-60F*	40mm Flanged	2,180	99221294
MAGNA1 D 40-80F*	40mm Flanged	3,084	99221308
MAGNA1 D 40-100F*	40mm Flanged	3,401	99221309
MAGNA1 D 40-120F	40mm Flanged	4,091	99221310
MAGNA1 D 40-150F	40mm Flanged	4,608	99221311
MAGNA1 D 40-180F	40mm Flanged	5,576	99221312
MAGNA1 D 50-40F**	50mm Flanged	3,576	99230357
MAGNA1 D 50-60F**	50mm Flanged	4,213	99221339
MAGNA1 D 50-80F	50mm Flanged	4,636	99221340
MAGNA1 D 50-100F	50mm Flanged	4,910	99221341
MAGNA1 D 50-120F	50mm Flanged	5,182	99221342
MAGNA1 D 50-150F	50mm Flanged	5,970	99221343
MAGNA1 D 50-180F	50mm Flanged	7,001	99221345

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA1 D 65-40F	65mm Flanged	4,485	99221376
MAGNA1 D 65-60F	65mm Flanged	5,122	99221377
MAGNA1 D 65-80F	65mm Flanged	5,576	99221378
MAGNA1 D 65-100F	65mm Flanged	5,879	99221379
MAGNA1 D 65-120F	65mm Flanged	6,304	99221380
MAGNA1 D 65-150F	65mm Flanged	7,155	99221381
MAGNA1 D 80-40F	80mm Flanged	5,365	99230392
MAGNA1 D 80-60F	80mm Flanged	5,910	99221414
MAGNA1 D 80-80F	80mm Flanged	6,365	99221415
MAGNA1 D 80-100F	80mm Flanged	6,343	99221416
MAGNA1 D 80-120F	80mm Flanged	7,119	99221417
MAGNA1 D 100-40F	100mm Flanged	6,304	99221448
MAGNA1 D 100-60F	100mm Flanged	6,880	99221449
MAGNA1 D 100-80F	100mm Flanged	6,815	99221450
MAGNA1 D 100-100F	100mm Flanged	7,424	99221451
MAGNA1 D 100-120F	100mm Flanged	8,421	99221452



\*/\*\* Due to differences in port to port dimensions, when replacing MAGNA or UPS/D models with an indicated MAGNA1 a spacer kit may be required.

Available as 2 kits, 1 for 40mm MAGNA1 models and 1 for 50mm MAGNA1 models, each includes a suitable spacer, a set of extended bolts, nuts and 3 gaskets.

Spacer Kits MAGNA1 / MAGNA3 type	Pressure	£	Product Code
*40mm	PN 6	75	96281076
**50mm	PN 6	86	96281077



## CATEGORY 1 - MAGNA3 VARIABLE SPEED CIRCULATORS

### SINGLE HEAD MAGNA3 VARIABLE SPEED CIRCULATORS

### MAGNA3

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA3 25-40	1½" BSPM	692	97924244
MAGNA3 25-60	1½" BSPM	822	97924245
MAGNA3 25-80	1½" BSPM	939	97924246
MAGNA3 25-100	1½" BSPM	1,031	97924247
MAGNA3 25-120	1½" BSPM	1,158	97924248
MAGNA3 32-40	2" BSPM	850	97924254
MAGNA3 32-60	2" BSPM	995	97924255
MAGNA3 32-80	2" BSPM	1,041	97924256
MAGNA3 32-100	2" BSPM	1,130	97924257
MAGNA3 32-40F	32mm Flanged	938	98333834
MAGNA3 32-60F	32mm Flanged	1,096	98333854
MAGNA3 32-80F	32mm Flanged	1,156	98333874
MAGNA3 32-100F	32mm Flanged	1,317	97924258
MAGNA3 32-120 F	32mm Flanged	2,187	97924259
MAGNA3 40-40F*	40mm Flanged	1,169	97924266
MAGNA3 40-60F*	40mm Flanged	1,273	97924267
MAGNA3 40-80 F*	40mm Flanged	1,809	97924268
MAGNA3 40-100 F*	40mm Flanged	1,992	97924269
MAGNA3 40-120 F	40mm Flanged	2,280	97924270
MAGNA3 40-150 F	40mm Flanged	2,704	97924271
MAGNA3 40-180 F	40mm Flanged	3,109	97924272
MAGNA3 50-40 F**	50mm Flanged	2,411	97924280
MAGNA3 50-60 F**	50mm Flanged	2,841	97924281
MAGNA3 50-80 F	50mm Flanged	3,126	97924282
MAGNA3 50-100 F	50mm Flanged	3,309	97924283
MAGNA3 50-120 F	50mm Flanged	3,494	97924284
MAGNA3 50-150 F	50mm Flanged	4,025	97924285
MAGNA3 50-180 F	50mm Flanged	4,720	97924286

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA3 65-40 F	65mm Flanged	3,023	97924294
MAGNA3 65-60 F	65mm Flanged	3,453	97924295
MAGNA3 65-80 F	65mm Flanged	3,759	97924296
MAGNA3 65-100 F	65mm Flanged	3,964	97924297
MAGNA3 65-120 F	65mm Flanged	4,250	97924298
MAGNA3 65-150 F	65mm Flanged	4,476	97924299
MAGNA3 80-40 F	80mm Flanged	3,616	97924306
MAGNA3 80-60 F	80mm Flanged	3,984	97924307
MAGNA3 80-80 F	80mm Flanged	4,291	97924308
MAGNA3 80-100 F	80mm Flanged	4,289	97924309
MAGNA3 80-120 F	80mm Flanged	4,813	97924310
MAGNA3 100-40 F	100mm Flanged	4,250	97924311
MAGNA3 100-60 F	100mm Flanged	4,638	97924312
MAGNA3 100-80 F	100mm Flanged	4,607	97924313
MAGNA3 100-100 F	100mm Flanged	5,018	97924314
MAGNA3 100-120 F	100mm Flanged	5,693	97924315



### TWIN HEAD MAGNA3 D VARIABLE SPEED CIRCULATORS

### MAGNA3 D

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA3 D 32-40	2" BSPM	1,981	97924449
MAGNA3 D 32-60	2" BSPM	2,318	97924450
MAGNA3 D 32-80	2" BSPM	2,418	97924451
MAGNA3 D 32-100	2" BSPM	2,627	97924452
MAGNA3 D 32-40F	32mm Flanged	2,183	98333840
MAGNA3 D 32-60F	32mm Flanged	2,552	98333860
MAGNA3 D 32-80F	32mm Flanged	2,687	98333880
MAGNA3 D 32-100F	32mm Flanged	3,059	97924453
MAGNA3 D 32-120 F	32mm Flanged	4,351	97924454
MAGNA3 D 40-40F*	40mm Flanged	2,721	97924461
MAGNA3 D 40-60F*	40mm Flanged	2,958	97924462
MAGNA3 D 40-80 F*	40mm Flanged	3,838	97924463
MAGNA3 D 40-100 F*	40mm Flanged	4,250	97924464
MAGNA3 D 40-120 F	40mm Flanged	5,108	97924465
MAGNA3 D 40-150 F	40mm Flanged	5,762	97924466
MAGNA3 D 40-180 F	40mm Flanged	6,635	97924467
MAGNA3 D 50-40 F**	50mm Flanged	4,754	97924475
MAGNA3 D 50-60 F**	50mm Flanged	5,600	97924476
MAGNA3 D 50-80 F	50mm Flanged	6,163	97924477
MAGNA3 D 50-100 F	50mm Flanged	6,527	97924478
MAGNA3 D 50-120 F	50mm Flanged	6,889	97924479
MAGNA3 D 50-150 F	50mm Flanged	7,937	97924480
MAGNA3 D 50-180 F	50mm Flanged	8,740	97924481

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA3 D 65-40 F	65mm Flanged	5,962	97924489
MAGNA3 D 65-60 F	65mm Flanged	6,808	97924490
MAGNA3 D 65-80 F	65mm Flanged	6,962	97924491
MAGNA3 D 65-100 F	65mm Flanged	7,816	97924492
MAGNA3 D 65-120 F	65mm Flanged	7,871	97924493
MAGNA3 D 65-150 F	65mm Flanged	8,433	97924494
MAGNA3 D 80-40 F	80mm Flanged	7,131	97924501
MAGNA3 D 80-60 F	80mm Flanged	6,485	97924502
MAGNA3 D 80-80 F	80mm Flanged	6,986	97924503
MAGNA3 D 80-100 F	80mm Flanged	8,046	97924504
MAGNA3 D 80-120 F	80mm Flanged	9,030	97924505
MAGNA3 D 100-40 F	100mm Flanged	6,916	97924506
MAGNA3 D 100-60 F	100mm Flanged	7,556	97924507
MAGNA3 D 100-80 F	100mm Flanged	8,643	97924508
MAGNA3 D 100-100 F	100mm Flanged	9,416	97924509
MAGNA3 D 100-120 F	100mm Flanged	10,681	97924510



\*\*\* Due to differences in port to port dimensions, when replacing MAGNA or UPS/D models with an indicated MAGNA3 a spacer kit may be required.  
Available as 2 kits, 1 for 40mm MAGNA3 models and 1 for 50mm MAGNA3 models, each includes a suitable spacer, a set of extended bolts, nuts and 3 gaskets.

Spacer Kits MAGNA1 / MAGNA3 type	Pressure	£	Product Code
*40mm	PN 6	75	96281076
**50mm	PN 6	86	96281077

## CATEGORY 1 - MAGNA1 N and MAGNA3 N VARIABLE SPEED CIRCULATORS

### SINGLE HEAD MAGNA1 N VARIABLE SPEED CIRCULATORS - WRAS Approved

### MAGNA1 N

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA1 25-40N	1½" BSPM	980	99221223
MAGNA1 25-60N	1½" BSPM	1,165	99221224
MAGNA1 25-80N	1½" BSPM	1,325	99221225
MAGNA1 25-100N	1½" BSPM	1,467	99221226
MAGNA1 25-120N	1½" BSPM	1,651	99221227
MAGNA1 32-40N	2" BSPM	1,205	99221253
MAGNA1 32-60N	2" BSPM	1,410	99221254
MAGNA1 32-80N	2" BSPM	1,467	99221255
MAGNA1 32-100N	2" BSPM	1,611	99221256
MAGNA1 32-40FN	32mm Flanged	1,327	99221265
MAGNA1 32-60FN	32mm Flanged	1,553	99221271
MAGNA1 32-80FN	32mm Flanged	1,631	99221277
MAGNA1 32-100FN	32mm Flanged	1,876	99221257
MAGNA1 32-120FN	32mm Flanged	2,483	99221289
MAGNA1 40-40FN	40mm Flanged	1,655	99221299
MAGNA1 40-60FN	40mm Flanged	1,815	99221300
MAGNA1 40-80FN	40mm Flanged	2,483	99221323
MAGNA1 40-100FN	40mm Flanged	2,739	99221324
MAGNA1 40-120FN	40mm Flanged	3,042	99221325
MAGNA1 40-150FN	40mm Flanged	3,713	99221326
MAGNA1 40-180FN	40mm Flanged	4,272	99221327

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA1 50-60FN	50mm Flanged	3,227	99221358
MAGNA1 50-80FN	50mm Flanged	3,551	99221359
MAGNA1 50-100FN	50mm Flanged	3,760	99221360
MAGNA1 50-120FN	50mm Flanged	3,969	99221361
MAGNA1 50-150FN	50mm Flanged	4,573	99221362
MAGNA1 50-180FN	50mm Flanged	5,361	99221363
MAGNA1 65-40FN	65mm Flanged	3,435	99221394
MAGNA1 65-60FN	65mm Flanged	3,923	99221395
MAGNA1 65-80FN	65mm Flanged	4,272	99221396
MAGNA1 65-100FN	65mm Flanged	4,503	99221397
MAGNA1 65-120FN	65mm Flanged	4,828	99221398
MAGNA1 65-150FN	65mm Flanged	5,568	99221399



### SINGLE HEAD MAGNA3 N VARIABLE SPEED CIRCULATORS - WRAS Approved

### MAGNA3 N

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA3 25-40N	1½" BSPM	1,074	97924336
MAGNA3 25-60N	1½" BSPM	1,313	97924337
MAGNA3 25-80N	1½" BSPM	1,457	97924338
MAGNA3 25-100N	1½" BSPM	1,597	97924339
MAGNA3 25-120N	1½" BSPM	1,797	97924340
MAGNA3 32-40N	2" BSPM	1,319	97924341
MAGNA3 32-60N	2" BSPM	1,542	97924342
MAGNA3 32-80N	2" BSPM	1,613	97924343
MAGNA3 32-100N	2" BSPM	1,752	97924344
MAGNA3 32-40FN	32mm Flanged	1,452	98333836
MAGNA3 32-60FN	32mm Flanged	1,699	98333856
MAGNA3 32-80FN	32mm Flanged	1,792	98333876
MAGNA3 32-100FN	32mm Flanged	2,041	97924345
MAGNA3 32-120FN	32mm Flanged	3,420	97924346
MAGNA3 40-40FN	40mm Flanged	1,811	97924347
MAGNA3 40-60FN	40mm Flanged	2,102	97924348
MAGNA3 40-80FN	40mm Flanged	3,388	97924349
MAGNA3 40-100FN	40mm Flanged	3,737	97924350
MAGNA3 40-120FN	40mm Flanged	4,118	97924351
MAGNA3 40-150FN	40mm Flanged	5,067	97924352
MAGNA3 40-180FN	40mm Flanged	5,173	97924353

Model	Pump Ports	230-240V 1ph 50Hz	
		£	Product Code
MAGNA3 50-40FN	50mm Flanged	3,737	97924354
MAGNA3 50-60FN	50mm Flanged	4,402	97924355
MAGNA3 50-80FN	50mm Flanged	4,845	97924356
MAGNA3 50-100FN	50mm Flanged	5,130	97924357
MAGNA3 50-120FN	50mm Flanged	5,415	97924358
MAGNA3 50-150FN	50mm Flanged	6,238	97924359
MAGNA3 50-180FN	50mm Flanged	7,315	97924360
MAGNA3 65-40FN	65mm Flanged	4,688	97924361
MAGNA3 65-60FN	65mm Flanged	5,352	97924362
MAGNA3 65-80FN	65mm Flanged	5,828	97924363
MAGNA3 65-100FN	65mm Flanged	6,143	97924364
MAGNA3 65-120FN	65mm Flanged	6,587	97924365
MAGNA3 65-150FN	65mm Flanged	6,967	97924366



Stainless steel pumps for HWS circulation.



## CATEGORY 1 - TP SINGLE STAGE SINGLE HEAD IN-LINE PUMPS FOR HOT WATER SERVICE

### STAINLESS STEEL PUMPS COMPLETE WITH 2 POLES ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
						A O I BQQE		A O I BQQE	
TP 25-50/2 R S**	0.12	10	1"½ BSPM	100	N/A	1452	98346632	1,358	98346612
TP 25-80/2 R S**	0.18	10	1"½ BSPM	100	N/A	1619	98282100	1,524	98346639
TP 32-50/2 R S**	0.12	10	2" BSPM	100	N/A	1816	98282162	1,717	98346615
TP 32-80/2 R S**	0.25	10	2" BSPM	100	N/A	2044	98346642	1,830	98346623
TP 32-90/2 R S**	0.37	10	2" BSPM	100	N/A	2200	98282352	1,986	98346629
TP 40-50/2 S	0.12	6/10	40mm Flanged	100	N/A	2,181	98282357	2,082	98346618
TP 40-80/2 S	0.25	6/10	40mm Flanged	100	N/A	2,588	98346645	2,373	98346626

### BRONZE PUMPS COMPLETE WITH 2 POLES ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
						A F Z BQQE		A F Z BQQE	
TP 32-60/2 B	0.25	6/10	32mm Flanged	200	B1	2229.00	98957950	2,025	98436290
TP 32-120/2 B	0.37	6/10	32mm Flanged	200	B1	2743.00	98957952	2,538	98154622
TP 32-150/2 B	0.37	6/10	32mm Flanged	200	B1	2743.00	98958115	2,538	98283542
TP 32-180/2 B	0.55	6/10	32mm Flanged	200	B1	3061.00	98958117	2,857	98958118
TP 32-230/2 B	0.75	6/10	32mm Flanged	200	B1	3406.00	98958119	3,182	98938754
TP 40-60/2 B	0.25	6/10	40mm Flanged	200	B1	2511.00	98957961	2,306	98178430
TP 40-120/2 B	0.37	6/10	40mm Flanged	200	B1	3078.00	98957964	2,873	97822677
TP 40-180/2 B	0.55	6/10	40mm Flanged	200	B1	3591.00	98957966	3,387	97846836
TP 40-190/2 B	0.75	16	40mm Flanged	200	B1	3719.00	98958126	3,494	98349467
TP 40-230/2 B	1.1	16	40mm Flanged	200	B1	3822.00	98958127	3,598	98391065
TP 40-270/2 B	1.5	16	40mm Flanged	200	B1	4142.00	98958129	3,916	98958130
TP 50-60/2 B	0.37	6/10	50mm Flanged	200	B1	3080.00	98957980	2,876	97958920
TP 50-120/2 B	0.75	6/10	50mm Flanged	200	B1	3731.00	98957983	3,507	97955265
TP 50-180/2 B	0.75	6/10	50mm Flanged	200	B1	4168.00	98610035	3,943	97959461
TP 65-60/2 B	0.55	6/10	65mm Flanged	200	B1	3806.00	98958001	3,510	98165472
TP 65-120/2 B	1.1	6/10	65mm Flanged	200	B1	4617.00	98958004	4,391	98400979
TP 65-180/2 B	1.5	6/10	65mm Flanged	200	B1	4993.00	98589719	4,770	98165513
TP 80-120/2 B	1.5	6	80mm Flanged	200	B2	5,749	98958078	5,524	98958079
TP 100-120/2 B	2.2	10	100mm Flanged	200	B2	-	-	7,245	98334678

### BRONZE PUMPS COMPLETE WITH 4 POLES ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
						A F Z BQQE		A F Z BQQE	
TP 32-30/4 B	0.12	6/10	32mm Flanged	200	B1	1,995	98957946	1,899	97952248
TP 32-40/4 B	0.25	6/10	32mm Flanged	200	B1	2,511	98958136	2,306	97909716
TP 32-60/4 B	0.25	6/10	32mm Flanged	200	B1	2,564	98958138	2,359	98958183
TP 40-30/4 B	0.12	6/10	40mm Flanged	200	B1	2,352	98957956	2,258	98122047
TP 40-60/4 B	0.25	6/10	40mm Flanged	200	B1	2,973	98957958	2,769	97968358
TP 40-90/4 B	0.25	16	40mm Flanged	200	B1	2,983	98958142	2,779	98505215
TP 50-30/4 B	0.25	6/10	50mm Flanged	200	B1	3,015	98957970	2,811	98957971
TP 50-60/4 B	0.37	6/10	50mm Flanged	200	B1	3,653	98957975	3,449	97896631
TP 65-30/4 B	0.25	6/10	65mm Flanged	200	B2	3,712	98957991	3,507	98957993
TP 65-60/4 B	0.55	6/10	65mm Flanged	200	B2	4,382	98957999	4,177	97897722
TP 80-30/4 B	0.37	6	80mm Flanged	200	B2	4,889	98958073	4,684	98958075
TP 80-60/4 B	0.75	6	80mm Flanged	200	B2	5,562	98958076	5,339	98585195
TP 100-30/4 B	0.55	6	100mm Flanged	200	B2	6,485	98958080	6,272	98958082

#### PUMPS

Standard fixed speed TP pump casings are Stainless steel (S) or Bronze (B) for circulating water in HWS Secondary systems.

The appropriate pipe work Unions or Flanges are supplied separately to the pump units and codes and prices for these accessories can be found on page 31.

TP pumps marked \*\* are suitable for use with 1" or 1" 1/4 brass unions – details of which are on page 4.

Custom Built pump options; different seals, elastomers, 60Hz motors etc can be configured and priced on request by your Sales Office.

#### ELECTRIC MOTOR

220-230/240V 1ph 50Hz or 240V 1ph 50Hz

220-240D/380-415V V/3ph/50Hz

IP55 Class F insulation

3ph motors 0.75kW and above are IE3 Efficiency.

#### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. See page 31 for codes and prices.





## CATEGORY 1 - TPE3 SINGLE STAGE IN LINE PUMPS FOR HOT WATER SERVICE

STAINLESS STEEL SINGLE HEAD PUMPS COMPLETE WITH VARIABLE SPEED HIGH EFFICIENCY MOTOR AND BUILT-IN DP+T SENSOR

Model	P2 kW	PN bar	Pipework Connection	230V 1ph 50Hz		380-500V 3ph 50Hz	
				£	Product Code	£	Product Code
				A F I BQQE		A F I BQQE	
TPE3 32-80-S	0.25	6/10	32mm Flanged	4,606	98416353	4,973	98416384
TPE3 32-120-S	0.25	6/10	32mm Flanged	4,973	98416354	5,341	98416385
TPE3 32-150-S	0.37	6/10	32mm Flanged	5,282	98416355	5,624	98416386
TPE3 32-180-S	0.55	6/10	32mm Flanged	5,601	98416356	5,920	98416387
TPE3 32-200-S	0.75	6/10	32mm Flanged	5,845	98416357	6,137	98416388
TPE3 40-80-S	0.25	6/10	40mm Flanged	5,257	98416504	5,624	98416542
TPE3 40-120-S	0.37	6/10	40mm Flanged	5,577	98416505	5,920	98416543
TPE3 40-150-S	0.55	6/10	40mm Flanged	5,915	98416506	6,235	98416544
TPE3 40-180-S	0.75	6/10	40mm Flanged	6,268	98416507	6,560	98416545
TPE3 40-200-S	1.1	6/10	40mm Flanged	6,530	98416508	6,806	98416546
TPE3 40-240-S	1.5	6/10	40mm Flanged	7,006	98416509	7,263	98416547
TPE3 50-60-S	0.37	6/10	50mm Flanged	5,479	98416672	5,821	98416717
TPE3 50-80-S	0.37	6/10	50mm Flanged	5,793	98416673	6,137	98416718
TPE3 50-120-S	0.55	6/10	50mm Flanged	6,142	98416674	6,462	98416719
TPE3 50-150-S	0.75	6/10	50mm Flanged	6,514	98416675	6,806	98416720
TPE3 50-180-S	1.1	6/10	50mm Flanged	6,892	98416676	7,168	98416721
TPE3 50-200-S	1.5	6/10	50mm Flanged	7,293	98416677	7,548	98416722
TPE3 50-240-S	2.2	6/10	50mm Flanged	-	-	7,940	98416723
TPE3 65-60-S	0.37	6/10	65mm Flanged	6,121	98416833	6,462	98416873
TPE3 65-80-S	0.55	6/10	65mm Flanged	6,488	98416834	6,806	98416874
TPE3 65-120-S	0.75	6/10	65mm Flanged	6,875	98416835	7,168	98416875
TPE3 65-150-S	1.1	6/10	65mm Flanged	7,273	98416836	7,548	98416876
TPE3 65-180-S	1.5	6/10	65mm Flanged	7,684	98416837	7,940	98416877
TPE3 65-200-S	2.2	6/10	65mm Flanged	-	-	8,357	98416878

### TPE3 PUMPS

All above TPE3 have stainless steel casing for circulating water in HWS Secondary systems.

TPE3 pumps have a built-in differential pressure and temperature transducer and are pre-programmed for close loop control.

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

### ELECTRIC MOTOR

220-240V / 1ph / 50Hz with IE5 efficiency

380-500V / 3ph / 50Hz with IE5 efficiency

IP55 Class F insulation

### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product. See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

### BASEPLATES

Baseplates are not available for TPE3 single head pumps.



## CATEGORY 1 - TP SINGLE STAGE SINGLE HEAD IN LINE PUMPS

### CAST IRON PUMPS COMPLETE WITH 4 POLES ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
						A F A BQQE		A F A BQQE	
TP 32-30/4	0.12	6/10	32mm Flanged	200	B1	1,129	98957942	1,034	98957943
TP 32-40/4	0.25	6/10	32mm Flanged	200	B1	1,460	98958135	1,256	98958179
TP 32-60/4	0.25	6/10	32mm Flanged	200	B1	1,488	98958137	1,281	98958182
TP 32-80/4	0.25	16	32mm Flanged	300	B3	2,027	96384199	1,822	96086739
TP 32-100/4	0.37	16	32mm Flanged	300	B3	2,062	96384205	1,858	96086740
TP 32-120/4	0.55	16	32mm Flanged	300	B3	2,124	96384211	1,920	96086741
TP 40-30/4	0.12	6/10	40mm Flanged	200	B1	1,314	98957953	1,220	98896273
TP 40-60/4	0.25	6/10	40mm Flanged	200	B1	1,702	98857066	1,496	98119685
TP 40-90/4	0.25	16	40mm Flanged	200	B1	1,705	98958141	1,499	98462889
TP 40-100/4	0.55	16	40mm Flanged	300	B3	2,294	96384229	2,088	96086883
TP 40-110/4	0.75	16	40mm Flanged	300	B3	2,361	98760171	2,138	98743357
TP 40-140/4	1.1	16	40mm Flanged	300	B3	2,700	98760159	2,476	98743317
TP 50-30/4	0.25	6/10	50mm Flanged	200	B1	1,724	98957967	1,520	98794577
TP 50-60/4	0.37	6/10	50mm Flanged	200	B1	2,057	98957972	1,851	98957974
TP 50-90/4	0.55	16	50mm Flanged	300	B3	2,450	96384247	2,245	96087117
TP 50-80/4	0.75	16	50mm Flanged	300	B3	2,710	98760147	2,486	98742972
TP 50-120/4	1.1	16	50mm Flanged	300	B3	2,755	98760135	2,531	98742942
TP 50-140/4	1.5	16	50mm Flanged	300	B3	2,798	98760123	2,573	98742912
TP 50-190/4	2.2	16	50mm Flanged	300	B3	-	-	2,671	96087289
TP 50-230/4	3	16	50mm Flanged	300	B3	-	-	2,918	96087290
TP 65-30/4	0.25	6/10	65mm Flanged	200	B2	2,086	98957986	1,880	98436173
TP 65-60/4	0.55	6/10	65mm Flanged	200	B2	2,436	98957994	2,232	98923198
TP 65-90/4	0.75	16	65mm Flanged	300	B3	2,750	96384283	2,524	96087441
TP 65-110/4	1.1	16	65mm Flanged	300	B3	2,847	96384289	2,622	96087442
TP 65-130/4	1.5	16	65mm Flanged	300	B3	2,993	96384295	2,769	96087443
TP 65-150/4	2.2	16	65mm Flanged	300	B3	-	-	3,003	96087627
TP 65-170/4	3	16	65mm Flanged	300	B3	-	-	3,134	96087628
TP 65-240/4	4	16	65mm Flanged	300	B3	-	-	3,598	96087629
TP 80-30/4	0.37	6	80mm Flanged	200	B2	2,700	98958007	2,495	98958011
TP 80-60/4	0.75	6	80mm Flanged	200	B2	3,061	98958022	2,836	98958026
TP 80-70/4	1.1	16	80mm Flanged	300	B3	2,896	96384301	2,671	96108601
TP 80-90/4	1.5	16	80mm Flanged	300	B3	3,043	96384307	2,817	96108602
TP 80-110/4	2.2	16	80mm Flanged	300	B3	-	-	3,059	96108849
TP 80-150/4	3	16	80mm Flanged	300	B3	-	-	3,205	96108850
TP 80-170/4	4	16	80mm Flanged	300	B3	-	-	4,031	96108851
TP 80-240/4	5.5	16	80mm Flanged	300	B4	-	-	4,617	96108852
TP 80-270/4	7.5	16	80mm Flanged	300	B4	-	-	4,977	96108853
TP 80-340/4	11	16	80mm Flanged	300	Included	-	-	6,220	96108854
TP 100-30/4	0.55	6	100mm Flanged	200	B2	3,541	98958042	3,327	98873387
TP 100-65/4	1.1	16	100mm Flanged	300	B4	3,761	99476455	3,536	99476439
TP 100-70/4	1.5	16	100mm Flanged	300	B4	3,845	96384313	3,621	96109053
TP 100-90/4	2.2	16	100mm Flanged	300	B4	-	-	3,926	96109303
TP 100-110/4	3	16	100mm Flanged	300	B4	-	-	4,180	96109304
TP 100-130/4	4	16	100mm Flanged	300	B4	-	-	4,691	96109305
TP 100-170/4	5.5	16	100mm Flanged	300	B4	-	-	5,312	96109306
TP 100-200/4	7.5	16	100mm Flanged	300	B4	-	-	5,905	96109307
TP 100-250/4	11	16	100mm Flanged	300	Included	-	-	7,288	96109308
TP 100-330/4	15	16	100mm Flanged	300	Included	-	-	8,254	96109309
TP 100-370/4	18.5	16	100mm Flanged	300	Included	-	-	9,649	96109310
TP 100-410/4	22	16	100mm Flanged	300	Included	-	-	10,775	96109311
TP 125-60/4	2.2	16	125mm Flanged	300	N/A	-	-	3,969	98908162
TP 125-80/4	3	16	125mm Flanged	300	N/A	-	-	4,398	98908136
TP 125-95/4	4	16	125mm Flanged	300	N/A	-	-	5,039	98915576
TP 125-110/4	4	16	125mm Flanged	300	B4	-	-	5,098	99366098
TP 125-130/4	5.5	16	125mm Flanged	300	B4	-	-	5,475	96109540
TP 125-160/4	7.5	16	125mm Flanged	300	B4	-	-	7,246	96109541
TP 125-190/4	11	16	125mm Flanged	300	Included	-	-	7,824	98743727
TP 125-230/4	15	16	125mm Flanged	300	Included	-	-	8,629	98743685
TP 125-300/4	18.5	16	125mm Flanged	300	Included	-	-	9,972	98742584
TP 125-340/4	22	16	125mm Flanged	300	Included	-	-	11,045	98742560
TP 125-400/4	30	16	125mm Flanged	300	Included	-	-	12,115	98742536

## CATEGORY 1 - TP SINGLE STAGE SINGLE HEAD IN LINE PUMPS

### CAST IRON PUMPS COMPLETE WITH 4 POLES ELECTRIC MOTOR

						380-415V 3ph 50Hz	
						£	Product Code
Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	A F A BQQE	
TP 150-70/4	5.5	16	150mm Flanged	300	N/A	6,109	98908308
TP 150-110/4	7.5	16	150mm Flanged	300	N/A	7,941	98908287
TP 150-155/4	11	16	150mm Flanged	300	N/A	8,833	98908267
TP 150-170/4	15	16	150mm Flanged	300	N/A	9,516	98908236
TP 150-130/4	7.5	16	150mm Flanged	300	B4	8,052	96109869
TP 150-160/4	11	16	150mm Flanged	300	Included	8,898	96109870
TP 150-200/4	15	16	150mm Flanged	300	Included	9,701	96109871
TP 150-220/4	18.5	16	150mm Flanged	300	Included	10,830	96109872
TP 150-260/4	18.5	16	150mm Flanged	300	N/A	11,582	96306153
TP 150-250/4	22	16	150mm Flanged	300	Included	11,690	96109873
TP 150-280/4	22	16	150mm Flanged	300	N/A	12,278	96306152
TP 150-340/4	30	16	150mm Flanged	300	N/A	13,901	96306151
TP 150-390/4	37	16	150mm Flanged	300	N/A	16,215	96306150
TP 150-450/4	45	16	150mm Flanged	300	N/A	19,139	97927149
TP 150-520/4	55	16	150mm Flanged	300	N/A	POA	97927148
TP 150-660/4	75	16	150mm Flanged	300	N/A	POA	97927147
TP 200-50/4	4	16	200mm Flanged	300	N/A	6,826	97927154
TP 200-70/4	5.5	16	200mm Flanged	300	N/A	7,547	97927153
TP 200-90/4	7.5	16	200mm Flanged	300	N/A	9,265	97927152
TP 200-130/4	11	16	200mm Flanged	300	N/A	10,889	97927151
TP 200-150/4	15	16	200mm Flanged	300	N/A	11,312	97927150
TP 200-160/4	15	16	200mm Flanged	300	N/A	11,312	97927159
TP 200-190/4	18.5	16	200mm Flanged	300	N/A	11,576	97927158
TP 200-200/4	22	16	200mm Flanged	300	N/A	12,346	97927157
TP 200-240/4	30	16	200mm Flanged	300	N/A	15,316	97927156
TP 200-290/4	37	16	200mm Flanged	300	N/A	18,446	97927155
TP 200-330/4	37	16	200mm Flanged	300	N/A	18,996	96306170
TP 200-270/4	45	16	200mm Flanged	300	N/A	19,462	96306158
TP 200-360/4	45	16	200mm Flanged	300	N/A	POA	96306169
TP 200-320/4	55	16	200mm Flanged	300	N/A	POA	96306157
TP 200-400/4	55	16	200mm Flanged	300	N/A	POA	96306168
TP 200-410/4	75	16	200mm Flanged	300	N/A	POA	96306156
TP 200-470/4	75	16	200mm Flanged	300	N/A	POA	96306167
TP 200-530/4	90	16	200mm Flanged	300	N/A	POA	96306166
TP 200-590/4	110	16	200mm Flanged	300	N/A	POA	96306165
TP 200-660/4	132	16	200mm Flanged	300	N/A	POA	96306164
						A F O BQQE	
TP 300-190/4	30	16	300mm Flanged	300	N/A	POA	99087574
TP 300-220/4	37	16	300mm Flanged	300	N/A	POA	99087573
TP 300-250/4	45	16	300mm Flanged	300	N/A	POA	99087572
TP 300-290/4	55	16	300mm Flanged	300	N/A	POA	99087571
TP 300-390/4	75	16	300mm Flanged	300	N/A	POA	99087570
TP 300-420/4	90	16	300mm Flanged	300	N/A	POA	99087569
TP 300-430/4	110	16	300mm Flanged	300	N/A	POA	99087568
TP 300-500/4	132	16	300mm Flanged	300	N/A	POA	99087567
TP 300-550/4	160	16	300mm Flanged	300	N/A	POA	99087566
TP 350-280/4	75	16	350mm Flanged	300	N/A	POA	99087582
TP 350-320/4	90	16	350mm Flanged	300	N/A	POA	99087581
TP 350-360/4	110	16	350mm Flanged	300	N/A	POA	99087580
TP 350-420/4	132	16	350mm Flanged	300	N/A	POA	99087579
TP 350-480/4	160	16	350mm Flanged	300	N/A	POA	99087578
TP 350-530/4	200	16	350mm Flanged	300	N/A	POA	99087577
TP 350-650/4	250	16	350mm Flanged	300	N/A	POA	99087576
TP 350-780/4	315	16	350mm Flanged	300	N/A	POA	99087575

### CAST IRON PUMPS COMPLETE WITH 6 POLES ELECTRIC MOTOR

						380-415V 3ph 50Hz	
						A F A BQQE	
Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate		
TP 125-60/6	1.5	16	125mm Flanged	300	B4	4,561	96109647
TP 125-70/6	2.2	16	125mm Flanged	300	B4	4,831	96109648
TP 125-80/6	3	16	125mm Flanged	300	B4	5,635	98743793
TP 125-100/6	4	16	125mm Flanged	300	B4	6,172	98743769
TP 125-130/6	5.5	16	125mm Flanged	300	B4	6,978	98742650
TP 125-160/6	7.5	16	125mm Flanged	300	B4	9,126	98742626
TP 150-60/6	2.2	16	150mm Flanged	300	B4	5,312	96109937
TP 150-70/6	3	16	150mm Flanged	300	B4	6,120	96109994
TP 150-90/6	4	16	150mm Flanged	300	B4	6,709	96109995
TP 150-110/6	5.5	16	150mm Flanged	300	B4	7,515	96109996



# CATEGORY 1 - TP SINGLE STAGE SINGLE HEAD IN LINE PUMPS

## CAST IRON PUMPS COMPLETE WITH 2 POLES ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
						A O A BQQE		A O A BQQE	
TP 25-50/2 R **	0.12	10	1"½ BSPM	100	N/A	822	98346587	727	98281476
TP 25-80/2 R **	0.18	10	1"½ BSPM	100	N/A	907	98346596	813	98282096
TP 25-90/2 R **	0.37	10	1"½ BSPM	100	N/A	1,097	98346604	891	98282133
TP 32-50/2 R **	0.12	10	2" BSPM	100	N/A	1,012	98346590	912	98282120
TP 32-80/2 R **	0.25	10	2" BSPM	100	N/A	1,186	98346599	970	98282166
TP 32-90/2 R **	0.37	10	2" BSPM	100	N/A	1,267	98299122	1,052	98346582
TP 32-60/2	0.25	6/10	32mm Flanged	200	B1	A F A BQQE		A F A BQQE	
TP 32-120/2	0.25	6/10	32mm Flanged	200	B1	1,305	98957947	1,099	98946132
TP 32-150/2	0.37	6/10	32mm Flanged	200	B1	1,581	98602057	1,376	98464186
TP 32-180/2	0.55	6/10	32mm Flanged	200	B1	1,581	98958114	1,376	97897469
TP 32-230/2	0.75	6/10	32mm Flanged	200	B1	1,748	98958116	1,541	98592079
TP 32-200/2	1.1	16	32mm Flanged	300	B3	1,936	98841196	1,711	98278909
TP 32-250/2	1.5	16	32mm Flanged	300	B3	2,118	96384217	1,894	96086673
TP 32-320/2	2.2	16	32mm Flanged	300	B3	2,336	96384223	2,111	96086674
TP 32-380/2	3	16	32mm Flanged	300	B3	-	-	2,283	96086777
TP 32-460/2	4	16	32mm Flanged	300	B3	-	-	2,476	96086778
TP 32-580/2	5.5	16	32mm Flanged	300	B3	-	-	2,551	96086779
TP 40-50/2	0.12	6/10	40mm Flanged	100	N/A	1,200	98346593	1,102	98282356
TP 40-80/2	0.25	6/10	40mm Flanged	100	N/A	1,466	98282358	1,252	98346578
TP 40-90/2	0.37	6/10	40mm Flanged	100	N/A	1,548	98346609	1,334	98282359
TP 40-60/2	0.25	6/10	40mm Flanged	200	B1	1,460	98957960	1,256	98122409
TP 40-120/2	0.37	6/10	40mm Flanged	200	B1	1,757	98957962	1,552	97851334
TP 40-180/2	0.55	6/10	40mm Flanged	200	B1	2,025	98957965	1,818	98133671
TP 40-190/2	0.75	16	40mm Flanged	200	B1	2,098	98958125	1,874	98294231
TP 40-230/2	1.1	16	40mm Flanged	200	B1	2,153	98617267	1,929	98066916
TP 40-270/2	1.5	16	40mm Flanged	200	B1	2,320	98958128	2,095	98133646
TP 40-240/2	2.2	16	40mm Flanged	300	B3	-	-	2,427	96086923
TP 40-300/2	3	16	40mm Flanged	300	B3	-	-	2,573	96086924
TP 40-360/2	4	16	40mm Flanged	300	B3	-	-	2,915	96086925
TP 40-430/2	5.5	16	40mm Flanged	300	B3	-	-	3,787	98743275
TP 40-530/2	7.5	16	40mm Flanged	300	B3	-	-	4,031	98743233
TP 40-630/2	11	16	40mm Flanged	300	Included	-	-	5,793	98743200
TP 50-60/2	0.37	6/10	50mm Flanged	200	B1	1,757	98957977	1,552	98182027
TP 50-120/2	0.75	6/10	50mm Flanged	200	B1	2,106	98810439	1,880	98279255
TP 50-180/2	0.75	6/10	50mm Flanged	200	B1	2,334	98179119	2,108	98133648
TP 50-160/2	1.1	16	50mm Flanged	300	B3	2,379	96384271	2,153	96086995
TP 50-190/2	1.5	16	50mm Flanged	300	B3	2,557	96384277	2,334	96086996
TP 50-240/2	2.2	16	50mm Flanged	300	B3	-	-	2,436	96087195
TP 50-290/2	3	16	50mm Flanged	300	B3	-	-	2,599	96087196
TP 50-360/2	4	16	50mm Flanged	300	B3	-	-	2,987	96087197
TP 50-430/2	5.5	16	50mm Flanged	300	B3	-	-	3,952	96087198
TP 50-420/2	7.5	16	50mm Flanged	300	B3	-	-	4,128	98742870
TP 50-540/2	11	16	50mm Flanged	300	Included	-	-	5,895	98742818
TP 50-630/2	15	16	50mm Flanged	300	Included	-	-	6,234	98742776
TP 50-710/2	15	16	50mm Flanged	300	Included	-	-	6,234	96087201
TP 50-830/2	18.5	16	50mm Flanged	300	Included	-	-	7,739	96087202
TP 50-900/2	22	16	50mm Flanged	300	Included	-	-	8,856	96087203
TP 65-60/2	0.55	6/10	65mm Flanged	200	B1	2,180	98830723	1,883	98509608
TP 65-120/2	1.1	6/10	65mm Flanged	200	B1	2,567	98830721	2,343	98585759
TP 65-180/2	1.5	6/10	65mm Flanged	200	B1	2,766	98929072	2,541	98420371
TP 65-170/2	2.2	16	65mm Flanged	300	B3	-	-	2,446	98742433
TP 65-210/2	3	16	65mm Flanged	300	B3	-	-	2,622	98742391
TP 65-250/2	4	16	65mm Flanged	300	B3	-	-	3,003	98742352
TP 65-340/2	5.5	16	65mm Flanged	300	B3	-	-	4,031	96087524
TP 65-410/2	7.5	16	65mm Flanged	300	B3	-	-	4,226	96087525
TP 65-460/2	11	16	65mm Flanged	300	Included	-	-	5,992	96087526
TP 65-550/2	15	16	65mm Flanged	300	Included	-	-	7,011	96087527
TP 65-660/2	18.5	16	65mm Flanged	300	Included	-	-	8,274	96087528
TP 65-720/2	22	16	65mm Flanged	300	Included	-	-	9,210	96087529
TP 65-930/2	30	16	65mm Flanged	300	Included	-	-	10,675	96087530



## CATEGORY 1 - TP SINGLE STAGE SINGLE HEAD IN LINE PUMPS

### CAST IRON PUMPS COMPLETE WITH 2 POLES ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
TP 80-120/2	1.5	6	80mm Flanged	200	B2	AI F A BQQE		AI F A BQQE	
						3,159	98958035	2,934	98843904
						A F A BQQE		A F A BQQE	
TP 80-140/2	2.2	16	80mm Flanged	300	B3	-	-	2,573	96108717
TP 80-180/2	3	16	80mm Flanged	300	B3	-	-	2,817	96108718
TP 80-210/2	4	16	80mm Flanged	300	B3	-	-	3,161	96108719
TP 80-240/2	5.5	16	80mm Flanged	300	B3	-	-	3,338	96108720
TP 80-250/2	7.5	16	80mm Flanged	300	B3	-	-	4,324	96108721
TP 80-330/2	11	16	80mm Flanged	300	Included	-	-	6,137	96108722
TP 80-400/2	15	16	80mm Flanged	300	Included	-	-	6,155	96108723
TP 80-520/2	18.5	16	80mm Flanged	300	Included	-	-	7,662	96108724
TP 80-570/2	22	16	80mm Flanged	300	Included	-	-	9,536	96108725
TP 80-700/2	30	16	80mm Flanged	300	Included	-	-	10,823	96108726
						AI F A BQQE		AI F A BQQE	
TP 100-120/2	2.2	6	100mm Flanged	200	B2	-	-	3,833	98958092
						A F A BQQE		A F A BQQE	
TP 100-160/2	4	16	100mm Flanged	300	B3	-	-	2,997	96109189
TP 100-200/2	5.5	16	100mm Flanged	300	B3	-	-	3,771	96109190
TP 100-240/2	7.5	16	100mm Flanged	300	B3	-	-	3,926	96109191
TP 100-250/2	11	16	100mm Flanged	300	Included	-	-	6,330	96109192
TP 100-310/2	15	16	100mm Flanged	300	Included	-	-	7,109	96109193
TP 100-360/2	18.5	16	100mm Flanged	300	Included	-	-	8,566	96109194
TP 100-390/2	22	16	100mm Flanged	300	Included	-	-	9,730	96109195
TP 100-480/2	30	16	100mm Flanged	300	Included	-	-	10,993	96109196
						-	-	8,693	99128261
TP 125-310/2	22	16	125mm Flanged	300	Included	-	-	10,540	99128258
TP 125-360/2	30	16	125mm Flanged	300	Included	-	-		

#### PUMPS

High % Glycol pumps may need an oversized motor and will need configuration by your Sales Office.

Custom Built pump options: different seals, elastomers, voltage, 60Hz motors or WRAS approved models (when available) can be configured by your Sales Office.

Some models are available in PN25. Contact the Sales Office for details.

Pumps marked \*\* are suitable for use with 1" or 1" 1/4 brass unions -- details of which are on page 4.

#### ELECTRIC MOTOR

1ph: 220-230/240V/50Hz or 240V/50Hz

3ph up to and including 1.50kW: 220-240D/380-415V/50Hz

3ph from 2.2kW and above: 380-415D/50Hz

IP55 Class F insulation

Motors 0.75kW and above are IE3 Efficiency.

#### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. See page 31 for codes and prices.





# **CATEGORY 1 - TPD SINGLE STAGE TWIN HEAD IN LINE PUMPS**

## **CAST IRON PUMPS COMPLETE WITH 4 POLES ELECTRIC MOTOR**

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
						A F A BQQE		A F A BQQE	
TPD 32-30/4	0.12	6/10	32mm Flanged	200	N/A	2,167	98957944	1,979	98957945
TPD 32-40/4	0.25	6/10	32mm Flanged	200	N/A	2,798	98958139	2,391	98958184
TPD 32-60/4	0.25	6/10	32mm Flanged	200	N/A	2,850	98958140	2,443	98958180
TPD 32-80/4	0.25	16	32mm Flanged	300	B5	4,017	96384202	3,610	96086757
TPD 32-100/4	0.37	16	32mm Flanged	300	B5	4,090	96384208	3,682	96086758
TPD 32-120/4	0.55	16	32mm Flanged	300	B5	4,210	96384214	3,803	96086759
TPD 40-30/4	0.12	6/10	40mm Flanged	200	N/A	2,515	98957954	2,326	98957955
TPD 40-90/4	0.25	16	40mm Flanged	200	N/A	3,263	98958143	2,857	98958181
TPD 40-100/4	0.55	16	40mm Flanged	300	B5	4,542	96384232	4,135	96086901
TPD 40-110/4	0.75	16	40mm Flanged	300	B5	4,503	98760141	4,061	98743363
TPD 40-140/4	1.1	16	40mm Flanged	300	B5	5,146	98760138	4,705	98743333
TPD 50-30/4	0.25	6/10	50mm Flanged	200	N/A	3,298	98957968	2,892	98957969
TPD 50-60/4	0.37	6/10	50mm Flanged	200	N/A	3,930	98958087	3,524	98958089
TPD 50-90/4	0.55	16	50mm Flanged	300	B5	4,847	96384250	4,441	96087153
TPD 50-80/4	0.75	16	50mm Flanged	300	B5	5,166	98760132	4,724	98742978
TPD 50-120/4	1.1	16	50mm Flanged	300	B5	5,251	98760129	4,807	98742948
TPD 50-140/4	1.5	16	50mm Flanged	300	B5	5,332	98760126	4,889	98742918
TPD 50-190/4	2.2	16	50mm Flanged	300	B5	-	-	5,290	96087301
TPD 50-230/4	3	16	50mm Flanged	300	B5	-	-	5,778	96087302
TPD 65-30/4	0.25	6/10	65mm Flanged	200	N/A	3,989	98957988	3,582	98957990
TPD 65-60/4	0.55	6/10	65mm Flanged	200	N/A	4,655	98957996	4,249	98957998
TPD 65-90/4	0.75	16	65mm Flanged	300	B5	5,444	96384286	5,000	96087477
TPD 65-110/4	1.1	16	65mm Flanged	300	B5	5,635	96384292	5,192	96087478
TPD 65-130/4	1.5	16	65mm Flanged	300	B5	5,925	96384298	5,481	96087479
TPD 65-150/4	2.2	16	65mm Flanged	300	B5	-	-	5,944	96087645
TPD 65-170/4	3	16	65mm Flanged	300	B5	-	-	6,204	96087646
TPD 65-240/4	4	16	65mm Flanged	300	B5	-	-	7,125	96087647
TPD 80-30/4	0.37	6	80mm Flanged	200	N/A	5,160	98958013	4,754	98958017
TPD 80-60/4	0.75	6	80mm Flanged	200	N/A	5,839	98958027	5,398	98958031
TPD 80-70/4	1.1	16	80mm Flanged	300	B5	5,732	96384304	5,290	96108657
TPD 80-90/4	1.5	16	80mm Flanged	300	B5	6,018	96384310	5,576	96108658
TPD 80-110/4	2.2	16	80mm Flanged	300	B5	-	-	6,058	96108891
TPD 80-150/4	3	16	80mm Flanged	300	B5	-	-	6,346	96108892
TPD 80-170/4	4	16	80mm Flanged	300	B5	-	-	7,981	96108893
TPD 80-240/4	5.5	16	80mm Flanged	300	B7	-	-	9,138	96108894
TPD 80-270/4	7.5	16	80mm Flanged	300	B7	-	-	9,856	96108895
TPD 80-340/4	11	16	80mm Flanged	300	Included	-	-	12,014	96108896
TPD 100-30/4	0.55	6	100mm Flanged	200	N/A	6,462	98958047	6,053	98958051
TPD 100-65/4	1.1	16	100mm Flanged	300	B6	7,444	99476469	7,001	99476465
TPD 100-70/4	1.5	16	100mm Flanged	300	B6	7,610	96384316	7,167	96109123
TPD 100-90/4	2.2	16	100mm Flanged	300	B6	-	-	7,773	96109366
TPD 100-110/4	3	16	100mm Flanged	300	B6	-	-	8,280	96109367
TPD 100-130/4	4	16	100mm Flanged	300	B6	-	-	9,289	96109368
TPD 100-170/4	5.5	16	100mm Flanged	300	B6	-	-	10,095	96109369
TPD 100-200/4	7.5	16	100mm Flanged	300	B7	-	-	11,218	96109370
TPD 100-250/4	11	16	100mm Flanged	300	Included	-	-	13,567	96109371
TPD 100-330/4	15	16	100mm Flanged	300	Included	-	-	15,401	96109372
TPD 100-370/4	18.5	16	100mm Flanged	300	Included	-	-	18,053	96109373
TPD 100-410/4	22	16	100mm Flanged	300	Included	-	-	POA	96109374



## CATEGORY 1 - TPD SINGLE STAGE TWIN HEAD IN LINE PUMPS

### CAST IRON PUMPS COMPLETE WITH 4 POLES ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
						A F A BQQE		A F A BQQE	
TPD 125-110/4	4	16	125mm Flanged	300	B7	-	-	9,689	96109595
TPD 125-130/4	5.5	16	125mm Flanged	300	B7	-	-	10,401	96109596
TPD 125-160/4	7.5	16	125mm Flanged	300	B7	-	-	13,769	96109597
TPD 125-190/4	11	16	125mm Flanged	300	Included	-	-	14,585	98743739
TPD 125-230/4	15	16	125mm Flanged	300	Included	-	-	16,116	98743697
TPD 125-300/4	18.5	16	125mm Flanged	300	Included	-	-	18,664	98742596
TPD 125-340/4	22	16	125mm Flanged	300	Included	-	-	20,704	98742572
TPD 125-400/4	30	16	125mm Flanged	300	Included	-	-	22,744	98742548
TPD 150-130/4	7.5	16	150mm Flanged	300	B7	-	-	15,297	96109904
TPD 150-160/4	11	16	150mm Flanged	300	Included	-	-	16,627	96109905
TPD 150-200/4	15	16	150mm Flanged	300	Included	-	-	18,157	96109906
TPD 150-230/4	18.5	16	150mm Flanged	300	Included	-	-	20,298	96109907
TPD 150-250/4	22	16	150mm Flanged	300	Included	-	-	21,928	96109908

### CAST IRON PUMPS COMPLETE WITH 6 POLES ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
						A F A BQQE		A F A BQQE	
TPD 125-60/6	1.5	16	125mm Flanged	300	B7	-	-	9,035	96109689
TPD 125-70/6	2.2	16	125mm Flanged	300	B7	-	-	9,566	96109690
TPD 125-80/6	3	16	125mm Flanged	300	B7	-	-	11,158	98743808
TPD 125-100/6	4	16	125mm Flanged	300	B7	-	-	12,222	98743781
TPD 125-130/6	5.5	16	125mm Flanged	300	B7	-	-	13,815	98742662
TPD 125-160/6	7.5	16	125mm Flanged	300	B7	-	-	18,066	98742638
TPD 150-60/6	2.2	16	150mm Flanged	300	B7	-	-	10,521	96109965
TPD 150-70/6	3	16	150mm Flanged	300	B7	-	-	12,115	96109966
TPD 150-90/6	4	16	150mm Flanged	300	B7	-	-	13,283	96110023
TPD 150-110/6	5.5	16	150mm Flanged	300	B7	-	-	14,878	96110024

### CAST IRON PUMPS COMPLETE WITH 2 POLES ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
						A F A BQQE		A F A BQQE	
TPD 32-60/2	0.25	6/10	32mm Flanged	200	N/A	2,506	98957948	2,098	98957949
TPD 32-120/2	0.25	6/10	32mm Flanged	200	N/A	3,026	98906995	2,619	98957951
TPD 32-150/2	0.37	6/10	32mm Flanged	200	N/A	3,026	98958120	2,619	97900333
TPD 32-180/2	0.55	6/10	32mm Flanged	200	N/A	3,348	98958121	2,941	98958122
TPD 32-230/2	0.75	6/10	32mm Flanged	200	N/A	3,698	98958123	3,257	98958124
TPD 32-200/2	1.1	16	32mm Flanged	300	B5	4,201	96384220	3,757	96086709
TPD 32-250/2	1.5	16	32mm Flanged	300	B5	4,634	96384226	4,191	96086710
TPD 32-320/2	2.2	16	32mm Flanged	300	B5	-	-	4,526	96086801
TPD 32-380/2	3	16	32mm Flanged	300	B5	-	-	4,913	96086802
TPD 32-460/2	4	16	32mm Flanged	300	B5	-	-	5,058	96086803
TPD 32-580/2	5.5	16	32mm Flanged	300	B5	-	-	6,260	96086804
TPD 40-60/2	0.25	6/10	40mm Flanged	200	N/A	2,804	98470784	2,397	98455942
TPD 40-120/2	0.37	6/10	40mm Flanged	200	N/A	3,361	98957963	2,954	98083077
TPD 40-190/2	0.75	16	40mm Flanged	200	N/A	4,007	98958131	3,566	98173086
TPD 40-230/2	1.1	16	40mm Flanged	200	N/A	4,115	98958132	3,673	98958133
TPD 40-270/2	1.5	16	40mm Flanged	200	N/A	4,435	98958134	3,991	98915456
TPD 40-240/2	2.2	16	40mm Flanged	300	B5	-	-	4,807	96086953
TPD 40-300/2	3	16	40mm Flanged	300	B5	-	-	5,095	96086954
TPD 40-360/2	4	16	40mm Flanged	300	B5	-	-	5,768	96086955
TPD 40-430/2	5.5	16	40mm Flanged	300	B5	-	-	7,197	98743287
TPD 40-530/2	7.5	16	40mm Flanged	300	B5	-	-	7,659	98743245
TPD 40-630/2	11	16	40mm Flanged	300	Included	-	-	10,732	98743212



## CATEGORY 1 - TPD SINGLE STAGE TWIN HEAD IN LINE PUMPS

### CAST IRON PUMPS COMPLETE WITH 2 POLES ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Design series	Optional baseplate	230V 1ph 50Hz		380-415V 3ph 50Hz	
						£	Product Code	£	Product Code
						A F A BQQE		A F A BQQE	
TPD 50-60/2	0.37	6/10	50mm Flanged	200	N/A	3,364	98957978	2,957	98957979
TPD 50-120/2	0.75	6/10	50mm Flanged	200	N/A	4,025	98957981	3,582	98957982
TPD 50-180/2	0.75	6/10	50mm Flanged	200	N/A	4,457	98957984	4,015	98957985
TPD 50-160/2	1.1	16	50mm Flanged	300	B5	4,705	96384274	4,262	96087061
TPD 50-190/2	1.5	16	50mm Flanged	300	B5	5,059	96384280	4,617	96087062
TPD 50-240/2	2.2	16	50mm Flanged	300	B5	-	-	4,828	96087249
TPD 50-290/2	3	16	50mm Flanged	300	B5	-	-	5,144	96087250
TPD 50-360/2	4	16	50mm Flanged	300	B5	-	-	5,914	96087251
TPD 50-430/2	5.5	16	50mm Flanged	300	B5	-	-	7,824	96087252
TPD 50-420/2	7.5	16	50mm Flanged	300	B5	-	-	7,844	98742882
TPD 50-540/2	11	16	50mm Flanged	300	Included	-	-	10,918	98742830
TPD 50-630/2	15	16	50mm Flanged	300	Included	-	-	11,566	98742788
TPD 50-710/2	15	16	50mm Flanged	300	Included	-	-	12,040	96087255
TPD 50-830/2	18.5	16	50mm Flanged	300	Included	-	-	15,021	96087256
TPD 50-900/2	22	16	50mm Flanged	300	Included	-	-	17,233	96087257
TPD 65-60/2	0.55	6/10	65mm Flanged	200	N/A	3,991	98958090	3,585	98958091
TPD 65-120/2	1.1	6/10	65mm Flanged	200	N/A	4,899	98958002	4,457	98958003
TPD 65-180/2	1.5	6/10	65mm Flanged	200	N/A	5,277	98958005	4,835	98958006
TPD 65-170/2	2.2	16	65mm Flanged	300	B5	-	-	4,847	98742445
TPD 65-210/2	3	16	65mm Flanged	300	B5	-	-	5,192	98742403
TPD 65-250/2	4	16	65mm Flanged	300	B5	-	-	5,944	98742364
TPD 65-340/2	5.5	16	65mm Flanged	300	B5	-	-	7,981	96087584
TPD 65-410/2	7.5	16	65mm Flanged	300	B5	-	-	8,365	96087585
TPD 65-460/2	11	16	65mm Flanged	300	Included	-	-	11,558	96087586
TPD 65-550/2	15	16	65mm Flanged	300	Included	-	-	13,579	96087587
TPD 65-660/2	18.5	16	65mm Flanged	300	Included	-	-	16,079	96087588
TPD 65-720/2	22	16	65mm Flanged	300	Included	-	-	17,932	96087589
TPD 65-930/2	30	16	65mm Flanged	300	Included	-	-	POA	96087590
TPD 80-120/2	1.5	10	80mm Flanged	200	N/A	5,286	98958037	5,583	98958039
TPD 80-140/2	2.2	16	80mm Flanged	300	B5	-	-	5,095	96108787
TPD 80-180/2	3	16	80mm Flanged	300	B5	-	-	5,576	96108788
TPD 80-210/2	4	16	80mm Flanged	300	B5	-	-	6,255	96108789
TPD 80-240/2	5.5	16	80mm Flanged	300	B5	-	-	6,341	96108790
TPD 80-250/2	7.5	16	80mm Flanged	300	B5	-	-	8,559	96108791
TPD 80-330/2	11	16	80mm Flanged	300	Included	-	-	11,849	96108792
TPD 80-400/2	15	16	80mm Flanged	300	Included	-	-	11,885	96108793
TPD 80-520/2	18.5	16	80mm Flanged	300	Included	-	-	14,868	96108794
TPD 80-570/2	22	16	80mm Flanged	300	Included	-	-	18,576	96108795
TPD 80-700/2	30	16	80mm Flanged	300	Included	-	-	POA	96108796
TPD 100-120/2	2.2	6	100mm Flanged	200	N/A	-	-	6,972	98958094
TPD 100-160/2	4	16	100mm Flanged	300	B5	-	-	5,935	96109245
TPD 100-200/2	5.5	16	100mm Flanged	300	B5	-	-	7,466	96109246
TPD 100-240/2	7.5	16	100mm Flanged	300	B5	-	-	7,773	96109247
TPD 100-250/2	11	16	100mm Flanged	300	Included	-	-	12,232	96109248
TPD 100-310/2	15	16	100mm Flanged	300	Included	-	-	13,771	96109249
TPD 100-360/2	18.5	16	100mm Flanged	300	Included	-	-	16,653	96109250
TPD 100-390/2	22	16	100mm Flanged	300	Included	-	-	18,963	96109251
TPD 100-480/2	30	16	100mm Flanged	300	Included	-	-	POA	96109252

#### PUMPS

High % Glycol pumps may need an oversized motor and will need configuration by your Sales Office  
Custom Built pump options; different seals, elastomers, 60Hz motors can be configured and priced on request by your Sales Office  
Some models are available in PN25. Contact the Sales Office for details.

#### ELECTRIC MOTOR

1ph: 220-230/240V/50Hz or 240V/50Hz  
3ph up to and including 1.50kW: 220-240D/380-415Y/50Hz  
3ph from 2.2kW and above: 380-415D/50Hz  
IP55 Class F insulation  
Motors 0.75kW and above are IE3 Efficiency.

#### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. See page 31 for codes and prices.



## CATEGORY 1 - TPE2 SINGLE STAGE IN LINE HIGH EFFICIENCY PUMPS

### CAST IRON SINGLE HEAD PUMPS COMPLETE WITH VARIABLE SPEED HIGH EFFICIENCY MOTOR

Model	P2 kW	PN bar	Pipework Connection	Transducer Range	230V 1ph 50/60Hz		380-500V 3ph 50/60Hz	
					£	Product Code	£	Product Code
					A F A BQQE		A F A BQQE	
TPE2 32-80-N	0.25	6/10	32mm Flanged	0-1 bar	2,469	98438338	2,837	98437880
TPE2 32-120-N	0.25	6/10	32mm Flanged	0-1 bar	2,772	98438339	3,141	98437881
TPE2 32-150-N	0.37	6/10	32mm Flanged	0-1.6 bar	3,010	98438340	3,350	98437882
TPE2 32-180-N	0.55	6/10	32mm Flanged	0-2.5 bar	3,256	98438341	3,574	98437883
TPE2 32-200-N	0.75	6/10	32mm Flanged	0-2.5 bar	3,419	98438342	3,712	98437884
TPE2 40-80-N	0.25	6/10	40mm Flanged	0-1 bar	2,983	98438343	3,350	98437885
TPE2 40-120-N	0.37	6/10	40mm Flanged	0-1.6 bar	3,232	98438344	3,574	98437886
TPE2 40-150-N	0.55	6/10	40mm Flanged	0-1.6 bar	3,492	98438345	3,811	98437887
TPE2 40-180-N	0.75	6/10	40mm Flanged	0-2.5 bar	3,765	98438346	4,057	98437888
TPE2 40-200-N	1.1	6/10	40mm Flanged	0-2.5 bar	3,942	98438347	4,218	98437889
TPE2 40-240-N	1.5	6/10	40mm Flanged	0-2.5 bar	4,330	98438348	4,586	98437890
TPE2 50-60-N	0.37	6/10	50mm Flanged	0-0.6 bar	3,134	98438349	3,476	98437891
TPE2 50-80-N	0.37	6/10	50mm Flanged	0-1 bar	3,370	98438350	3,712	98437892
TPE2 50-120-N	0.55	6/10	50mm Flanged	0-1.6 bar	3,639	98438351	3,958	98437893
TPE2 50-150-N	0.75	6/10	50mm Flanged	0-1.6 bar	3,925	98438352	4,218	98437894
TPE2 50-180-N	1.1	6/10	50mm Flanged	0-2.5 bar	4,215	98438353	4,490	98437895
TPE2 50-200-N	1.5	6/10	50mm Flanged	0-2.5 bar	4,520	98438354	4,775	98437896
TPE2 50-240-N	2.2	6/10	50mm Flanged	0-2.5 bar	-	-	5,073	98437897
TPE2 65-60-N	0.37	6/10	65mm Flanged	0-0.6 bar	3,617	98438355	3,958	98437898
TPE2 65-80-N	0.55	6/10	65mm Flanged	0-1 bar	3,899	98438356	4,218	98437899
TPE2 65-120-N	0.75	6/10	65mm Flanged	0-1.6 bar	4,199	98438357	4,490	98437900
TPE2 65-150-N	1.1	6/10	65mm Flanged	0-1.6 bar	4,500	98438358	4,775	98437901
TPE2 65-180-N	1.5	6/10	65mm Flanged	0-2.5 bar	4,815	98438359	5,073	98437902
TPE2 65-200-N	2.2	6/10	65mm Flanged	0-2.5 bar	-	-	5,388	98437903
TPE2 80-40-N	0.25	10	80mm Flanged	0-0.6 bar	3,672	98437735	3,958	98437601
TPE2 80-120-N	1.1	10	80mm Flanged	0-1.6 bar	4,904	98437737	5,073	98437603
TPE2 80-150-N	1.5	10	80mm Flanged	0-1.6 bar	5,246	98437738	5,388	98437604
TPE2 80-180-N	2.2	10	80mm Flanged	0-2.5 bar	-	-	5,715	98437605
TPE2 100-40-N	0.25	10	100mm Flanged	0-0.6 bar	3,936	98437726	4,313	98437612
TPE2 100-120-N	1.1	10	100mm Flanged	0-1.6 bar	5,227	98437728	5,508	98437614
TPE2 100-150-N	1.5	10	100mm Flanged	0-1.6 bar	5,583	98437729	5,845	98437615
TPE2 100-180-N	2.2	10	100mm Flanged	0-2.5 bar	-	-	6,200	98437616

#### TPE2 PUMP

Transducers are not included with the pump but are optional extras listed on Page 39. One transducer is required for a single TPE2 pump.

If required, select the appropriate differential pressure transducer according to the size indicated.

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

TPE2 include sensor connection points on both flanges. In some models, the tapping is on the flange side, rather than on the top.

PN16 and stainless steel versions are available on request, contact the Sales Office.

#### ELECTRIC MOTOR

220-240V / 1ph / 50Hz with IE5 efficiency

380-500V / 3ph / 50Hz with IE5 efficiency

IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product.

See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

#### BASEPLATES

Baseplates are not available for TPE2 single head pumps.



## CATEGORY 1 - TPE2 SINGLE STAGE IN LINE HIGH EFFICIENCY PUMPS

### CAST IRON TWIN HEAD PUMPS COMPLETE WITH VARIABLE SPEED HIGH EFFICIENCY MOTOR

Model	P2 kW	PN bar	Pipework Connection	Transducer Range	230V 1ph 50/60Hz		380-500V 3ph 50/60Hz	
					£	Product Code	£	Product Code
					A F A BQQE		A F A BQQE	
TPE2 D 32-80-N	0.25	6/10	32mm Flanged	0-1 bar	4,848	98438555	5,585	98438125
TPE2 D 32-120-N	0.25	6/10	32mm Flanged	0-1 bar	5,233	98438556	5,969	98438126
TPE2 D 32-150-N	0.37	6/10	32mm Flanged	0-1.6 bar	5,690	98438557	6,373	98438127
TPE2 D 32-180-N	0.55	6/10	32mm Flanged	0-2.5 bar	5,972	98438558	6,613	98438128
TPE2 D 32-200-N	0.75	6/10	32mm Flanged	0-2.5 bar	6,655	98438559	7,244	98438129
TPE2 D 40-80-N	0.25	6/10	40mm Flanged	0-1 bar	5,636	98438560	6,373	98438130
TPE2 D 40-120-N	0.37	6/10	40mm Flanged	0-1.6 bar	6,113	98438561	6,797	98438131
TPE2 D 40-150-N	0.55	6/10	40mm Flanged	0-1.6 bar	6,603	98438562	7,244	98438132
TPE2 D 40-180-N	0.75	6/10	40mm Flanged	0-2.5 bar	6,941	98438563	7,529	98438133
TPE2 D 40-200-N	1.1	6/10	40mm Flanged	0-2.5 bar	7,467	98438564	8,019	98438134
TPE2 D 40-240-N	1.5	6/10	40mm Flanged	0-2.5 bar	8,021	98438565	8,535	98438135
TPE2 D 50-60-N	0.37	6/10	50mm Flanged	0-0.6 bar	5,929	98438566	6,613	98438136
TPE2 D 50-80-N	0.37	6/10	50mm Flanged	0-1 bar	6,376	98438567	7,060	98438137
TPE2 D 50-120-N	0.55	6/10	50mm Flanged	0-1.6 bar	6,889	98438568	7,529	98438138
TPE2 D 50-150-N	0.75	6/10	50mm Flanged	0-1.6 bar	7,431	98438569	8,019	98438139
TPE2 D 50-180-N	1.1	6/10	50mm Flanged	0-2.5 bar	7,982	98438570	8,535	98438140
TPE2 D 50-200-N	1.5	6/10	50mm Flanged	0-2.5 bar	8,567	98438571	9,080	98438141
TPE2 D 50-240-N	2.2	6/10	50mm Flanged	0-2.5 bar	-	-	9,644	98438142
TPE2 D 65-60-N	0.37	6/10	65mm Flanged	0-0.6 bar	6,846	98438572	7,529	98438143
TPE2 D 65-80-N	0.55	6/10	65mm Flanged	0-1 bar	7,377	98438573	8,019	98438144
TPE2 D 65-120-N	0.75	6/10	65mm Flanged	0-1.6 bar	7,946	98438574	8,535	98438145
TPE2 D 65-150-N	1.1	6/10	65mm Flanged	0-1.6 bar	8,527	98438575	9,080	98438146
TPE2 D 65-180-N	1.5	6/10	65mm Flanged	0-2.5 bar	9,131	98438576	9,644	98438147
TPE2 D 65-200-N	2.2	6/10	65mm Flanged	0-2.5 bar	-	-	10,238	98438148
TPE2 D 80-40-N	0.25	10	80mm Flanged	0-0.6 bar	6,793	98437784	7,529	98437671
TPE2 D 80-120-N	1.1	10	80mm Flanged	0-1.6 bar	9,093	98437786	9,644	98437673
TPE2 D 80-150-N	1.5	10	80mm Flanged	0-1.6 bar	9,726	98437787	10,238	98437674
TPE2 D 80-180-N	2.2	10	80mm Flanged	0-2.5 bar	-	-	10,866	98437675
TPE2 D 100-40-N	0.25	10	100mm Flanged	0-0.6 bar	7,282	98437788	8,019	98437676
TPE2 D 100-120-N	1.1	10	100mm Flanged	0-1.6 bar	9,687	98437790	10,238	98437678
TPE2 D 100-150-N	1.5	10	100mm Flanged	0-1.6 bar	10,355	98437791	10,866	98437679
TPE2 D 100-180-N	2.2	10	100mm Flanged	0-2.5 bar	-	-	11,530	98437680

#### TPE2 D PUMP

Transducers are not included with the pump but are optional extras listed on Page 39. Two transducers are required for a twin TPE2 D pump.

If required, select the appropriate differential pressure transducer according to the size indicated.

Two transducers are required for a Twin TPE2 D pump.

The extra fittings kit will allow two differential pressure transducers to be fitted on to the suction and discharge flanges - see page 39

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

TPE2 D include sensor connection points on both flanges. In some models, the tapping is on the flange side, rather than on the top.

PN16 versions are available on request, contact the Sales Office.

#### ELECTRIC MOTOR

220-240V / 1ph / 50Hz with IE5 efficiency

380-500V / 3ph / 50Hz with IE5 efficiency

IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product.

See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

#### BASEPLATES

When applicable, baseplates for TPE2 D are available as an accessory.

See page 31 for codes and prices.





## CATEGORY 1 - TPE3 SINGLE STAGE IN LINE HIGH EFFICIENCY PUMPS

### CAST IRON SINGLE HEAD PUMPS COMPLETE WITH VARIABLE SPEED HIGH EFFICIENCY MOTOR AND BUILT-IN DP+T SENSOR

Model	P2 kW	PN bar	Pipework Connection	230V 1ph 50/60Hz		380-500V 3ph 50/60Hz	
				£	Product Code	£	Product Code
				A F A BQQE		A F A BQQE	
TPE3 32-80-S	0.25	6/10	32mm Flanged	3,663	99272234	4,031	99272202
TPE3 32-120-S	0.25	6/10	32mm Flanged	3,965	99272235	4,333	99272203
TPE3 32-150-S	0.37	6/10	32mm Flanged	4,201	99272236	4,543	99272204
TPE3 32-180-S	0.55	6/10	32mm Flanged	4,448	99272237	4,766	99272205
TPE3 32-200-S	0.75	6/10	32mm Flanged	4,612	99272238	4,904	99272206
TPE3 40-80-S	0.25	6/10	40mm Flanged	4,175	99272239	4,543	99272207
TPE3 40-120-S	0.37	6/10	40mm Flanged	4,425	99272240	4,766	99272208
TPE3 40-150-S	0.55	6/10	40mm Flanged	4,684	99272241	5,002	99272209
TPE3 40-180-S	0.75	6/10	40mm Flanged	4,957	99272242	5,250	99272210
TPE3 40-200-S	1.1	6/10	40mm Flanged	5,135	99272253	5,410	99272211
TPE3 40-240-S	1.5	6/10	40mm Flanged	5,522	99272254	5,778	99272212
TPE3 50-60-S	0.37	6/10	50mm Flanged	4,326	99272255	4,667	99272213
TPE3 50-80-S	0.37	6/10	50mm Flanged	4,562	99272256	4,904	99272214
TPE3 50-120-S	0.55	6/10	50mm Flanged	4,832	99272257	5,152	99272215
TPE3 50-150-S	0.75	6/10	50mm Flanged	5,119	99272258	5,410	99272216
TPE3 50-180-S	1.1	6/10	50mm Flanged	5,407	99272259	5,683	99272217
TPE3 50-200-S	1.5	6/10	50mm Flanged	5,713	99272260	5,969	99272218
TPE3 50-240-S	2.2	6/10	50mm Flanged	-	-	6,264	99272219
TPE3 65-60-S	0.37	6/10	65mm Flanged	4,809	99272261	5,152	99272220
TPE3 65-80-S	0.55	6/10	65mm Flanged	5,092	99272262	5,410	99272221
TPE3 65-120-S	0.75	6/10	65mm Flanged	5,390	99272263	5,683	99272222
TPE3 65-150-S	1.1	6/10	65mm Flanged	5,693	99272264	5,969	99272223
TPE3 65-180-S	1.5	6/10	65mm Flanged	6,008	99272265	6,264	99272224
TPE3 65-200-S	2.2	6/10	65mm Flanged	-	-	6,580	99272225
TPE3 80-40-S	0.25	10	80mm Flanged	4,783	99272196	5,152	99272188
TPE3 80-120-S	1.1	10	80mm Flanged	5,988	99272197	6,264	99272189
TPE3 80-150-S	1.5	10	80mm Flanged	6,324	99272198	6,580	99272190
TPE3 80-180-S	2.2	10	80mm Flanged	-	-	6,908	99272191
TPE3 100-40-S	0.25	10	100mm Flanged	5,042	99272199	5,410	99272192
TPE3 100-120-S	1.1	10	100mm Flanged	6,304	99272200	6,580	99272193
TPE3 100-150-S	1.5	10	100mm Flanged	6,652	99272201	6,908	99272194
TPE3 100-180-S	2.2	10	100mm Flanged	-	-	7,257	99272195

#### TPE3 PUMPS

TPE3 pumps have a built-in differential pressure and temperature transducer and are pre-programmed for close loop control.

These units are NOT RECOMMENDED for % speed change (uncontrolled mode) from an external analogue source (BMS). Use TPE2 or TPE series 1000 for this application

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

PN16 and stainless steel versions are available on request, contact the Sales Office.

#### ELECTRIC MOTOR

220-240V / 1ph / 50Hz with IE5 efficiency

380-500V / 3ph / 50Hz with IE5 efficiency

IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product.

See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

#### BASEPLATES

Baseplates are not available for TPE3 single head pumps.



## CATEGORY 1 - TPE3 SINGLE STAGE IN LINE HIGH EFFICIENCY PUMPS

### CAST IRON TWIN HEAD PUMPS COMPLETE WITH VARIABLE SPEED HIGH EFFICIENCY MOTOR AND BUILT-IN DP+T SENSOR

Model	P2 kW	PN bar	Pipework Connection	230V 1ph 50/60Hz		380-500V 3ph 50/60Hz	
				£	Product Code	£	Product Code
				A F A BQQE		A F A BQQE	
TPE3 D 32-80-S	0.25	6/10	32mm Flanged	6,042	99272582	6,776	99272540
TPE3 D 32-120-S	0.25	6/10	32mm Flanged	6,426	99272583	7,160	99272541
TPE3 D 32-150-S	0.37	6/10	32mm Flanged	6,882	99272584	7,566	99272542
TPE3 D 32-180-S	0.55	6/10	32mm Flanged	7,165	99272585	7,804	99272543
TPE3 D 32-200-S	0.75	6/10	32mm Flanged	7,848	99272586	8,436	99272544
TPE3 D 40-80-S	0.25	6/10	40mm Flanged	6,830	99272587	7,566	99272545
TPE3 D 40-120-S	0.37	6/10	40mm Flanged	7,306	99272588	7,989	99272546
TPE3 D 40-150-S	0.55	6/10	40mm Flanged	7,794	99272589	8,436	99272547
TPE3 D 40-180-S	0.75	6/10	40mm Flanged	8,133	99272590	8,722	99272548
TPE3 D 40-200-S	1.1	6/10	40mm Flanged	8,659	99272591	9,210	99272549
TPE3 D 40-240-S	1.5	6/10	40mm Flanged	9,215	99272592	9,726	99272550
TPE3 D 50-60-S	0.37	6/10	50mm Flanged	7,122	99272593	7,804	99272551
TPE3 D 50-80-S	0.37	6/10	50mm Flanged	7,568	99272594	8,251	99272552
TPE3 D 50-120-S	0.55	6/10	50mm Flanged	8,080	99272595	8,722	99272553
TPE3 D 50-150-S	0.75	6/10	50mm Flanged	8,623	99272596	9,210	99272554
TPE3 D 50-180-S	1.1	6/10	50mm Flanged	9,175	99272597	9,726	99272555
TPE3 D 50-200-S	1.5	6/10	50mm Flanged	9,760	99272598	10,271	99272556
TPE3 D 50-240-S	2.2	6/10	50mm Flanged	-	-	10,837	99272557
TPE3 D 65-60-S	0.37	6/10	65mm Flanged	8,038	99272599	8,722	99272558
TPE3 D 65-80-S	0.55	6/10	65mm Flanged	8,571	99272600	9,210	99272559
TPE3 D 65-120-S	0.75	6/10	65mm Flanged	9,139	99272601	9,726	99272560
TPE3 D 65-150-S	1.1	6/10	65mm Flanged	9,721	99272602	10,271	99272561
TPE3 D 65-180-S	1.5	6/10	65mm Flanged	10,325	99272603	10,837	99272562
TPE3 D 65-200-S	2.2	6/10	65mm Flanged	-	-	11,432	99272573
TPE3 D 80-40-S	0.25	10	80mm Flanged	7,986	99272534	8,722	99272526
TPE3 D 80-120-S	1.1	10	80mm Flanged	10,285	99272535	10,837	99272527
TPE3 D 80-150-S	1.5	10	80mm Flanged	10,920	99272536	11,432	99272528
TPE3 D 80-180-S	2.2	10	80mm Flanged	-	-	12,059	99272529
TPE3 D 100-40-S	0.25	10	100mm Flanged	8,476	99272537	9,210	99272530
TPE3 D 100-120-S	1.1	10	100mm Flanged	10,880	99272538	11,432	99272531
TPE3 D 100-150-S	1.5	10	100mm Flanged	11,546	99272539	12,059	99272532
TPE3 D 100-180-S	2.2	10	100mm Flanged	-	-	12,722	99272533

#### TPE3 D PUMPS

TPE3 D pumps are supplied with two built-in differential pressure and temperature transducer and are pre-programmed for close loop control.

These units are NOT RECOMMENDED for % speed change (uncontrolled mode) from an external analogue source (BMS).

Use TPE2 D or TPED series 1000 for this application.

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

Digital stop/start to both pump heads simultaneously is acceptable.

PN16 versions are available on request, contact the Sales Office.

#### ELECTRIC MOTOR

220-240V / 1ph / 50Hz with IE5 efficiency

380-500V / 3ph / 50Hz with IE5 efficiency

IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product.

See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

#### BASEPLATES

When applicable, baseplates for TPE3 D are available as an accessory.

See page 31 for codes and prices.



## CATEGORY 1 - TPE SERIES 1000 SINGLE STAGE SINGLE HEAD IN LINE PUMPS

### SERIES 1000 CAST IRON PUMPS COMPLETE WITH 4 POLES VARIABLE SPEED ELECTRIC MOTOR

						380-480/500V 3ph 50/60Hz	
						£	Product Code
Model	P2 kW	PN bar	Pipework Connection	Transducer Range	Design series	A F A BQQE	
TPE 65-240/4	4	16	65mm Flanged	0-4 bar	300	6,905	99113696
TPE 80-150/4	3	16	80mm Flanged	0-2.5 bar	300	6,110	99113698
TPE 80-170/4	4	16	80mm Flanged	0-2.5 bar	300	7,342	99113699
TPE 80-240/4	5.5	16	80mm Flanged	0-4 bar	300	8,600	99113700
TPE 80-270/4	7.5	16	80mm Flanged	0-4 bar	300	9,683	99113701
TPE 80-340/4	11	16	80mm Flanged	0-4 bar	300	12,263	96110190
TPE 100-65/4	1.1	16	100mm Flanged	0-1 bar	300	5,536	99476471
TPE 100-70/4	1.5	16	100mm Flanged	0-1 bar	300	5,729	99113702
TPE 100-90/4	2.2	16	100mm Flanged	0-1.6 bar	300	6,432	99113703
TPE 100-110/4	3	16	100mm Flanged	0-1.6 bar	300	7,095	99113704
TPE 100-130/4	4	16	100mm Flanged	0-2.5 bar	300	8,009	99113705
TPE 100-170/4	5.5	16	100mm Flanged	0-2.5 bar	300	9,302	99113706
TPE 100-200/4	7.5	16	100mm Flanged	0-2.5 bar	300	10,620	99113707
TPE 100-250/4	11	16	100mm Flanged	0-4 bar	300	13,340	96110403
TPE 100-330/4	15	16	100mm Flanged	0-4 bar	300	15,317	96110404
TPE 125-60/4	2.2	16	125mm Flanged	0-1 bar	300	6,475	99113653
TPE 125-80/4	3	16	125mm Flanged	0-1.6 bar	300	7,315	99113654
TPE 125-95/4	4	16	125mm Flanged	0-1.6 bar	300	8,360	99113655
TPE 125-110/4	4	16	125mm Flanged	0-1.6 bar	300	8,419	99113708
TPE 125-130/4	5.5	16	125mm Flanged	0-1.6 bar	300	9,467	99113709
TPE 125-160/4	7.5	16	125mm Flanged	0-2.5 bar	300	11,973	99113710
TPE 125-190/4	11	16	125mm Flanged	0-2.5 bar	300	13,882	98743751
TPE 125-230/4	15	16	125mm Flanged	0-4 bar	300	15,696	98743709
TPE 150-70/4	5.5	16	150mm Flanged	0-1.6 bar	300	10,108	99113658
TPE 150-110/4	7.5	16	150mm Flanged	0-1.6 bar	300	12,677	99113659
TPE 150-130/4	7.5	16	150mm Flanged	0-1.6 bar	300	12,789	99113711
TPE 150-155/4	11	16	150mm Flanged	0-2.5 bar	300	14,900	98908273
TPE 150-170/4	15	16	150mm Flanged	0-2.5 bar	300	16,592	98908252
TPE 150-200/4	15	16	150mm Flanged	0-2.5 bar	300	16,779	96110627
TPE 200-50/4	4	16	200mm Flanged	0-0.6 bar	300	10,163	99113660
TPE 200-70/4	5.5	16	200mm Flanged	0-1 bar	300	11,560	99113661
TPE 200-90/4	7.5	16	200mm Flanged	0-1 bar	300	14,014	99113662
TPE 200-130/4	11	16	200mm Flanged	0-1.6 bar	300	16,977	97927474
TPE 200-150/4	15	16	200mm Flanged	0-2.5 bar	300	18,405	97927473
TPE 200-160/4	15	16	200mm Flanged	0-2.5 bar	300	18,405	97927479

#### SERIES 1000 TPE PUMPS

Transducers are not included with the pump but are optional extras listed on Page 39. One transducer is required for a single TPE 1000 pump. If required, select the appropriate differential pressure transducer according to the size indicated. These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

#### ELECTRIC MOTOR

380-500V / 3ph / 50Hz with IE5 efficiency up to 7.5kW  
380-480V / 3ph / 50Hz from 11kW and above  
IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product. See Page 40 for details. This device can be used to commission and monitor multiple pumps on multiple sites

#### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. Selection is as for equivalent fixed speed model. See page 31 for codes and prices.



# CATEGORY 1 - TPE SERIES 1000 SINGLE STAGE SINGLE HEAD IN LINE PUMPS

## SERIES 1000 CAST IRON PUMPS COMPLETE WITH 2 POLES VARIABLE SPEED ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Transducer Range	Design series	230V 1ph 50/60Hz		380-480/500V 3ph 50/60Hz	
						£	Product Code	£	Product Code
						A F A BQQE		A F A BQQE	
TPE 25-50/2 R**	0.12	10	1"1/2 BSPM	0-1 bar	100	1,961	98525613	-	-
TPE 25-80/2 R**	0.18	10	1"1/2 BSPM	0-1 bar	100	2,086	98525614	-	-
TPE 25-90/2 R**	0.37	10	1"1/2 BSPM	0-1.6 bar	100	2,367	98076621	-	-
						A O A BQQE			
TPE 32-50/2 R**	0.12	10	2" BSPM	0-1 bar	100	2,120	98525615	-	-
TPE 32-80/2 R**	0.25	10	2" BSPM	0-1 bar	100	2,350	98112498	-	-
TPE 32-90/2 R**	0.37	10	2" BSPM	0-1.6 bar	100	2,493	98112501	-	-
						A F A BQQE			
TPE 32-230/2	0.75	6/10	32mm Flanged	0-4 bar	200	3,160	99114823	3,653	98902601
TPE 32-200/2	1.1	16	32mm Flanged	0-4 bar	300	3,384	98514289	3,876	98514344
TPE 32-250/2	1.5	16	32mm Flanged	0-4 bar	300	3,555	99134541	4,204	98112536
TPE 32-320/2	2.2	16	32mm Flanged	0-4 bar	300	-	-	4,773	98112558
TPE 32-380/2	3	16	32mm Flanged	0-6 bar	300	-	-	5,374	99113926
TPE 32-460/2	4	16	32mm Flanged	0-6 bar	300	-	-	5,847	99113927
TPE 32-580/2	5.5	16	32mm Flanged	0-10 bar	300	-	-	6,889	99113928
TPE 40-50/2	0.12	6/10	40mm Flanged	0-1 bar	100	2,318	98525620	-	-
TPE 40-80/2	0.25	6/10	40mm Flanged	0-1 bar	100	2,643	98112571	-	-
TPE 40-90/2	0.37	6/10	40mm Flanged	0-1.6 bar	100	2,786	98112574	-	-
TPE 40-270/2	1.5	6/10	40mm Flanged	0-4 bar	200	3,539	99134427	4,188	98920110
TPE 40-300/2	3	16	40mm Flanged	0-4 bar	300	-	-	5,473	99113929
TPE 40-360/2	4	16	40mm Flanged	0-6 bar	300	-	-	6,215	99113930
TPE 40-430/2	5.5	16	40mm Flanged	0-6 bar	300	-	-	7,526	99113931
TPE 40-530/2	7.5	16	40mm Flanged	0-10 bar	300	-	-	8,560	99113933
TPE 40-630/2	11	16	40mm Flanged	0-10 bar	300	-	-	11,668	99113935
TPE 50-290/2	3	16	50mm Flanged	0-4 bar	300	-	-	5,498	99113936
TPE 50-360/2	4	16	50mm Flanged	0-6 bar	300	-	-	6,288	99113937
TPE 50-430/2	5.5	16	50mm Flanged	0-6 bar	300	-	-	7,694	99113938
TPE 50-420/2	7.5	16	50mm Flanged	0-6 bar	300	-	-	8,659	99113939
TPE 50-540/2	11	16	50mm Flanged	0-10 bar	300	-	-	11,771	99113940
TPE 50-630/2	15	16	50mm Flanged	0-10 bar	300	-	-	13,117	98742800
TPE 50-710/2	15	16	50mm Flanged	0-10 bar	300	-	-	13,117	96096440
TPE 50-830/2	18.5	16	50mm Flanged	0-10 bar	300	-	-	15,985	96096441
TPE 50-900/2	22	16	50mm Flanged	0-16 bar	300	-	-	18,173	96096442
TPE 65-210/2	3	16	65mm Flanged	0-4 bar	300	-	-	5,522	99113941
TPE 65-250/2	4	16	65mm Flanged	0-4 bar	300	-	-	6,304	99113942
TPE 65-340/2	5.5	16	65mm Flanged	0-4 bar	300	-	-	7,773	99113943
TPE 65-410/2	7.5	16	65mm Flanged	0-6 bar	300	-	-	8,757	99113945
TPE 65-460/2	11	16	65mm Flanged	0-6 bar	300	-	-	11,869	99113946
TPE 65-550/2	15	16	65mm Flanged	0-10 bar	300	-	-	13,901	96096605
TPE 65-660/2	18.5	16	65mm Flanged	0-10 bar	300	-	-	16,523	96096606
TPE 65-720/2	22	16	65mm Flanged	0-10 bar	300	-	-	18,531	96096607
TPE 80-180/2	3	16	80mm Flanged	0-2.5 bar	300	-	-	5,719	99113947
TPE 80-210/2	4	16	80mm Flanged	0-2.5 bar	300	-	-	6,465	99113948
TPE 80-240/2	5.5	16	80mm Flanged	0-4 bar	300	-	-	7,073	99113949
TPE 80-250/2	7.5	16	80mm Flanged	0-4 bar	300	-	-	8,856	99113950
TPE 80-330/2	11	16	80mm Flanged	0-4 bar	300	-	-	12,013	99113951
TPE 80-400/2	15	16	80mm Flanged	0-6 bar	300	-	-	13,038	96110065
TPE 80-520/2	18.5	16	80mm Flanged	0-10 bar	300	-	-	15,906	96110066
TPE 80-570/2	22	16	80mm Flanged	0-10 bar	300	-	-	18,858	96110067

### SERIES 1000 TPE PUMPS

Pumps marked /2 R\*\* require optional union sets -- details of which are on Page 31

Transducers are not included with the pump but are optional extras listed on Page 39. One transducer is required for a single TPE 1000 pump.

If required, select the appropriate differential pressure transducer according to the size indicated.

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

### ELECTRIC MOTOR

220-240V / 1ph / 50Hz with IE5 efficiency

380-500V / 3ph / 50Hz with IE5 efficiency up to 11kW

380-480V / 3ph / 50Hz from 15kW and above

IP55 Class F insulation

### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product. See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. Selection is as for equivalent fixed speed model. See page 31 for codes and prices.



## CATEGORY 1 - TPE SERIES 1000 SINGLE STAGE SINGLE HEAD IN LINE PUMPS

### SERIES 1000 CAST IRON PUMPS COMPLETE WITH 2 POLES VARIABLE SPEED ELECTRIC MOTOR

SERIES 1000 CAST IRON TYPICALLY COMPLETE WITH 2 POLES VARIABLE SPEED ELECTRIC MOTOR						380-480/500V 3ph 50/60Hz	
	P2	PN	Pipework	Transducer	Design	£	Product Code
Model	kW	bar	Connection	Range	series		AI F A BQQE
TPE 100-120/2	2.2	6	100mm Flanged	0-1.6 bar	200		6,170 98958246
							A F A BQQE
TPE 100-160/2	4	16	100mm Flanged	0-2.5 bar	300		6,297 99113952
TPE 100-200/2	5.5	16	100mm Flanged	0-4 bar	300		7,509 99113964
TPE 100-240/2	7.5	16	100mm Flanged	0-4 bar	300		8,455 99113965
TPE 100-250/2	11	16	100mm Flanged	0-4 bar	300		12,209 99113966
TPE 100-310/2	15	16	100mm Flanged	0-4 bar	300		14,000 96110297
TPE 100-360/2	18.5	16	100mm Flanged	0-6 bar	300		16,820 96110298
TPE 100-390/2	22	16	100mm Flanged	0-6 bar	300		19,055 96110299
TPE 125-310/2	22	16	125mm Flanged	0-6 bar	300		18,007 99147952

#### SERIES 1000 TPE PUMPS

Transducers are not included with the pump but are optional extras listed on Page 39. One transducer is required for a single TPE 1000 pump. If required, select the appropriate differential pressure transducer according to the size indicated.

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

#### ELECTRIC MOTOR

380-500V / 3ph / 50Hz with IE5 efficiency up to 11kW

380-480V / 3ph / 50Hz from 15kW and above

IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product. See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

#### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. Selection is as for equivalent fixed speed model. See page 31 for codes and prices.





## CATEGORY 1 - TPE SERIES 1000 SINGLE STAGE TWIN HEAD IN LINE PUMPS

### SERIES 1000 CAST IRON PUMPS COMPLETE WITH 4 POLES VARIABLE SPEED ELECTRIC MOTOR

						380-480/500V 3ph 50Hz	
	P2	PN	Pipework	Transducer	Design	£	Product Code
Model	kW	bar	Connection	Range	series		
TPED 65-240/4	4	16	65mm Flanged	0-4 bar	300		A F A BQQE
						13,738	99114625
TPED 80-150/4	3	16	80mm Flanged	0-2.5 bar	300		12,158
TPED 80-170/4	4	16	80mm Flanged	0-2.5 bar	300		99114626
TPED 80-240/4	5.5	16	80mm Flanged	0-4 bar	300		14,602
TPED 80-270/4	7.5	16	80mm Flanged	0-4 bar	300		99114627
TPED 80-340/4	11	16	80mm Flanged	0-4 bar	300		17,105
							99114628
							19,264
							99114629
							24,088
							96110246
							A F A BQQE
TPED 100-65/4	1.1	16	100mm Flanged	0-1 bar	300		10,994
TPED 100-70/4	1.5	16	100mm Flanged	0-1 bar	300		99476475
TPED 100-90/4	2.2	16	100mm Flanged	0-1.6 bar	300		11,383
TPED 100-110/4	3	16	100mm Flanged	0-1.6 bar	300		99114630
TPED 100-130/4	4	16	100mm Flanged	0-2.5 bar	300		12,781
TPED 100-170/4	5.5	16	100mm Flanged	0-2.5 bar	300		99114631
TPED 100-200/4	7.5	16	100mm Flanged	0-2.5 bar	300		14,109
TPED 100-250/4	11	16	100mm Flanged	0-4 bar	300		99114632
TPED 100-330/4	15	16	100mm Flanged	0-4 bar	300		15,922
							99114633
							18,070
							99114634
							POA
							99114635
							POA
							96110473
							POA
							96110474
TPED 125-110/4	4	16	125mm Flanged	0-1.6 bar	300		16,326
TPED 125-130/4	5.5	16	125mm Flanged	0-1.6 bar	300		99114636
TPED 125-160/4	7.5	16	125mm Flanged	0-2.5 bar	300		18,379
TPED 125-190/4	11	16	125mm Flanged	0-4 bar	300		99114637
TPED 125-230/4	15	16	125mm Flanged	0-4 bar	300		POA
							99114638
							POA
							98743760
							POA
							98743718
TPED 150-130/4	7.5	16	150mm Flanged	0-1.6 bar	300		POA
TPED 150-160/4	11	16	150mm Flanged	0-2.5 bar	300		99114639
TPED 150-200/4	15	16	150mm Flanged	0-2.5 bar	300		POA
							96110661
							POA
							96110662

#### SERIES 1000 TPED PUMPS

Transducers are not included with the pump but are optional extras listed on Page 39.

If required, select the appropriate differential pressure transducer according to the size indicated.

Two transducers are required for a Twin TPED Series 1000 pump.

The extra fittings kit will allow two differential pressure transducers to be fitted on to the suction and discharge flanges - see page 39

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

#### ELECTRIC MOTOR

380-500V / 3ph / 50Hz with IE5 efficiency up to 7.5kW

380-480V / 3ph / 50Hz from 11kW and above

IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product. See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

#### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. Selection is as for equivalent fixed speed model. See page 31 for codes and prices.



# CATEGORY 1 - TPE SERIES 1000 SINGLE STAGE TWIN HEAD IN LINE PUMPS

## SERIES 1000 CAST IRON PUMPS COMPLETE WITH 2 POLES VARIABLE SPEED ELECTRIC MOTOR

Model	P2 kW	PN bar	Pipework Connection	Transducer Range	Design series	230V 1ph 50Hz		380-480/500V 3ph 50Hz	
						£	Product Code	£	Product Code
						A F A BQQE		A F A BQQE	
TPED 32-230/2	0.75	6/10	32mm Flanged	0-4 bar	200	6,153	99114820	7,139	99114829
TPED 32-200/2	1.1	16	32mm Flanged	0-4 bar	300	6,727	98512481	7,713	98512486
TPED 32-250/2	1.5	16	32mm Flanged	0-4 bar	300	6,993	99134547	8,370	98112529
TPED 32-320/2	2.2	16	32mm Flanged	0-4 bar	300	-	-	9,496	98112551
TPED 32-380/2	3	16	32mm Flanged	0-6 bar	300	-	-	10,702	99114598
TPED 32-460/2	4	16	32mm Flanged	0-6 bar	300	-	-	11,642	99114599
TPED 32-580/2	5.5	16	32mm Flanged	0-10 bar	300	-	-	13,718	99114600
TPED 40-270/2	1.5	6/10	40mm Flanged	0-4 bar	200	6,800	99134431	8,176	99238980
TPED 40-300/2	3	16	40mm Flanged	0-4 bar	300	-	-	10,893	99114601
TPED 40-360/2	4	16	40mm Flanged	0-6 bar	300	-	-	12,368	99114602
TPED 40-430/2	5.5	16	40mm Flanged	0-6 bar	300	-	-	14,673	99114603
TPED 40-530/2	7.5	16	40mm Flanged	0-10 bar	300	-	-	16,714	99114604
TPED 40-630/2	11	16	40mm Flanged	0-10 bar	300	-	-	POA	99114605
TPED 50-290/2	3	16	50mm Flanged	0-4 bar	300	-	-	10,942	99114606
TPED 50-360/2	4	16	50mm Flanged	0-6 bar	300	-	-	12,515	99114607
TPED 50-430/2	5.5	16	50mm Flanged	0-6 bar	300	-	-	15,308	99114608
TPED 50-420/2	7.5	16	50mm Flanged	0-6 bar	300	-	-	16,901	99114609
TPED 50-540/2	11	16	50mm Flanged	0-10 bar	300	-	-	POA	99114610
TPED 50-630/2	15	16	50mm Flanged	0-10 bar	300	-	-	POA	98742809
TPED 50-710/2	15	16	50mm Flanged	0-10 bar	300	-	-	POA	96096500
TPED 50-830/2	18.5	16	50mm Flanged	0-10 bar	300	-	-	POA	96096501
TPED 50-900/2	22	16	50mm Flanged	0-16 bar	300	-	-	POA	96096502
TPED 65-210/2	3	16	65mm Flanged	0-4 bar	300	-	-	10,991	99114611
TPED 65-250/2	4	16	65mm Flanged	0-4 bar	300	-	-	12,545	99114612
TPED 65-340/2	5.5	16	65mm Flanged	0-4 bar	300	-	-	15,465	99114613
TPED 65-410/2	7.5	16	65mm Flanged	0-6 bar	300	-	-	17,426	99114614
TPED 65-460/2	11	16	65mm Flanged	0-6 bar	300	-	-	POA	99114615
TPED 65-550/2	15	16	65mm Flanged	0-10 bar	300	-	-	POA	96096659
TPED 65-660/2	18.5	16	65mm Flanged	0-10 bar	300	-	-	POA	96096660
TPED 65-720/2	22	16	65mm Flanged	0-10 bar	300	-	-	POA	96096661
TPED 80-180/2	3	16	80mm Flanged	0-2.5 bar	300	-	-	11,378	99114616
TPED 80-210/2	4	16	80mm Flanged	0-2.5 bar	300	-	-	12,860	99114617
TPED 80-240/2	5.5	16	80mm Flanged	0-4 bar	300	-	-	13,810	99114618
TPED 80-250/2	7.5	16	80mm Flanged	0-4 bar	300	-	-	17,623	99114619
TPED 80-330/2	11	16	80mm Flanged	0-4 bar	300	-	-	POA	99114620
TPED 80-400/2	15	16	80mm Flanged	0-6 bar	300	-	-	POA	96110128
TPED 80-520/2	18.5	16	80mm Flanged	0-10 bar	300	-	-	POA	96110129
TPED 80-570/2	22	16	80mm Flanged	0-10 bar	300	-	-	POA	96110130
TPED 100-120/2	2.2	6	100mm Flanged	0-1.6 bar	200	-	-	AI F A BQQE	
						-	-	10,503	98958243
TPED 100-160/2	4	16	100mm Flanged	0-2.5 bar	300	-	-	A F A BQQE	
TPED 100-200/2	5.5	16	100mm Flanged	0-4 bar	300	-	-	10,995	99114621
TPED 100-240/2	7.5	16	100mm Flanged	0-4 bar	300	-	-	13,111	99114622
TPED 100-250/2	11	16	100mm Flanged	0-4 bar	300	-	-	14,763	99114623
TPED 100-310/2	15	16	100mm Flanged	0-4 bar	300	-	-	POA	99114624
TPED 100-360/2	18.5	16	100mm Flanged	0-6 bar	300	-	-	POA	96110346
TPED 100-390/2	22	16	100mm Flanged	0-6 bar	300	-	-	POA	96110347
						-	-	POA	96110348

### SERIES 1000 TPED PUMPS

Standard variable speed TPED pump casings are cast iron with heating and glycol seal options.

DP Transducers are not included with the pump but are optional extras listed on Page 39.

If required, select the appropriate sensor according to the size indicated

Two transducers are required for a Twin TPED Series 1000 pump

The extra fittings kit will allow two differential pressure transducers to be fitted on to the suction and discharge flanges - see page 39

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

### ELECTRIC MOTOR

220-240V / 1ph / 50Hz with IE5 efficiency

380-500V / 3ph / 50Hz with IE5 efficiency up to 11kW

380-480V / 3ph / 50Hz from 15kW and above

IP55 Class F insulation

### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product. See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. Selection is as for equivalent fixed speed model. See page 31 for codes and prices.



## CATEGORY 1 - TPE SERIES 2000 SINGLE STAGE SINGLE HEAD IN LINE PUMPS

### SERIES 2000 CAST IRON PUMPS COMPLETE WITH 4 POLES VARIABLE SPEED ELECTRIC MOTOR AND INTEGRAL SENSOR

Model	P2 kW	PN bar	Pipework Connection	Design series	380-480/500V 3ph 50Hz	
					£	Product Code
					A F A BQQE	
TPE 65-240/4-S	4	16	65mm Flanged	300	7,921	99114825
TPE 80-150/4-S	3	16	80mm Flanged	300	7,125	99114826
TPE 80-170/4-S	4	16	80mm Flanged	300	8,357	99114830
TPE 80-240/4-S	5.5	16	80mm Flanged	300	9,615	99114831
TPE 80-270/4-S	7.5	16	80mm Flanged	300	10,699	99114832
TPE 80-340/4-S	11	16	80mm Flanged	300	13,278	96275968
TPE 100-65/4-S	1.1	16	100mm Flanged	300	6,550	99478030
TPE 100-70/4-S	1.5	16	100mm Flanged	300	6,744	99114813
TPE 100-90/4-S	2.2	16	100mm Flanged	300	7,448	99114815
TPE 100-110/4-S	3	16	100mm Flanged	300	8,110	99114816
TPE 100-130/4-S	4	16	100mm Flanged	300	9,023	99114811
TPE 100-170/4-S	5.5	16	100mm Flanged	300	10,317	99114812
TPE 100-200/4-S	7.5	16	100mm Flanged	300	11,635	99114808
TPE 100-250/4-S	11	16	100mm Flanged	300	14,355	96276046
TPE 100-330/4-S	15	16	100mm Flanged	300	16,333	96276052
TPE 125-60/4-S	2.2	16	125mm Flanged	300	7,490	99114752
TPE 125-80/4-S	3	16	125mm Flanged	300	8,330	99114806
TPE 125-95/4-S	4	16	125mm Flanged	300	9,375	99114807
TPE 125-110/4-S	4	16	125mm Flanged	300	9,435	99114726
TPE 125-130/4-S	5.5	16	125mm Flanged	300	10,482	99114727
TPE 125-160/4-S	7.5	16	125mm Flanged	300	12,989	99114728
TPE 125-190/4-S	11	16	125mm Flanged	300	14,898	98743757
TPE 125-230/4-S	15	16	125mm Flanged	300	16,710	98743715
TPE 150-70/4-S	5.5	16	150mm Flanged	300	11,123	99114732
TPE 150-110/4-S	7.5	16	150mm Flanged	300	13,693	99114733
TPE 150-130/4-S	7.5	16	150mm Flanged	300	13,803	99114734
TPE 150-155/4-S	11	16	150mm Flanged	300	15,916	98908279
TPE 150-170/4-S	15	16	150mm Flanged	300	17,607	98908258
TPE 150-200/4-S	15	16	150mm Flanged	300	17,794	96382690
TPE 200-50/4-S	4	16	200mm Flanged	300	11,645	99114833
TPE 200-70/4-S	5.5	16	200mm Flanged	300	13,100	99114834
TPE 200-90/4-S	7.5	16	200mm Flanged	300	15,656	99114835
TPE 200-130/4-S	11	16	200mm Flanged	300	18,743	97927581
TPE 200-150/4-S	15	16	200mm Flanged	300	20,232	97927580
TPE 200-160/4-S	15	16	200mm Flanged	300	20,232	97927586

#### SERIES 2000 TPE PUMPS

These pumps are supplied with a single differential pressure transducer and are pre-programmed for close loop control.

These units are NOT RECOMMENDED for % speed change (uncontrolled mode) from an external analogue source (BMS). Use TPE2 or TPE series 1000 for this application.

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

#### ELECTRIC MOTOR

380-500V / 3ph / 50Hz with IE5 efficiency up to 7.5kW

380-480V / 3ph / 50Hz from 11kW and above

IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product. See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites.

#### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. Selection is as for equivalent fixed speed model. See page 31 for codes and prices.



## CATEGORY 1 - TPE SERIES 2000 SINGLE STAGE SINGLE HEAD IN LINE PUMPS

### SERIES 2000 CAST IRON PUMPS COMPLETE WITH 2 POLES VARIABLE SPEED ELECTRIC MOTOR AND INTEGRAL SENSOR

Model	P2 kW	PN bar	Pipework Connection	Design series	230V 1ph 50Hz		380-480/500V 3ph 50Hz	
					£	Product Code	£	Product Code
					A F A BQQE		A F A BQQE	
TPE 32-230/2-S	0.75	6/10	32mm Flanged	200	4,254	99133750	4,781	99133770
TPE 32-200/2-S	1.1	16	32mm Flanged	300	4,399	99133585	4,892	99133562
TPE 32-250/2-S	1.5	16	32mm Flanged	300	4,569	99133586	5,220	99133573
TPE 32-320/2-S	2.2	16	32mm Flanged	300	-	-	5,788	99133574
TPE 32-380/2-S	3	16	32mm Flanged	300	-	-	6,389	99114655
TPE 32-460/2-S	4	16	32mm Flanged	300	-	-	6,863	99114656
TPE 32-580/2-S	5.5	16	32mm Flanged	300	-	-	7,904	99114657
TPE 40-270/2-S	1.5	6/10	40mm Flanged	200	4,553	99134456	5,203	99133662
TPE 40-300/2-S	3	16	40mm Flanged	300	-	-	6,488	99114658
TPE 40-360/2-S	4	16	40mm Flanged	300	-	-	7,230	99114659
TPE 40-430/2-S	5.5	16	40mm Flanged	300	-	-	8,541	99114660
TPE 40-530/2-S	7.5	16	40mm Flanged	300	-	-	9,575	99114661
TPE 40-630/2-S	11	16	40mm Flanged	300	-	-	12,683	99114662
TPE 50-290/2-S	3	16	50mm Flanged	300	-	-	6,514	99114663
TPE 50-360/2-S	4	16	50mm Flanged	300	-	-	7,302	99114664
TPE 50-430/2-S	5.5	16	50mm Flanged	300	-	-	8,708	99114665
TPE 50-420/2-S	7.5	16	50mm Flanged	300	-	-	9,674	99114666
TPE 50-540/2-S	11	16	50mm Flanged	300	-	-	12,785	99114668
TPE 50-630/2-S	15	16	50mm Flanged	300	-	-	14,131	98742806
TPE 50-710/2-S	15	16	50mm Flanged	300	-	-	14,131	96397037
TPE 50-830/2-S	18.5	16	50mm Flanged	300	-	-	17,000	96397040
TPE 50-900/2-S	22	16	50mm Flanged	300	-	-	19,187	96397043
TPE 65-210/2-S	3	16	65mm Flanged	300	-	-	6,537	99114669
TPE 65-250/2-S	4	16	65mm Flanged	300	-	-	7,319	99114670
TPE 65-340/2-S	5.5	16	65mm Flanged	300	-	-	8,787	99114671
TPE 65-410/2-S	7.5	16	65mm Flanged	300	-	-	9,773	99114672
TPE 65-460/2-S	11	16	65mm Flanged	300	-	-	12,883	99114673
TPE 65-550/2-S	15	16	65mm Flanged	300	-	-	14,917	96397049
TPE 65-660/2-S	18.5	16	65mm Flanged	300	-	-	17,539	96397052
TPE 65-720/2-S	22	16	65mm Flanged	300	-	-	19,545	96397055
TPE 80-180/2-S	3	16	80mm Flanged	300	-	-	6,735	99114674
TPE 80-210/2-S	4	16	80mm Flanged	300	-	-	7,480	99114719
TPE 80-240/2-S	5.5	16	80mm Flanged	300	-	-	8,088	99114720
TPE 80-250/2-S	7.5	16	80mm Flanged	300	-	-	9,871	99114721
TPE 80-330/2-S	11	16	80mm Flanged	300	-	-	13,029	99114722
TPE 80-400/2-S	15	16	80mm Flanged	300	-	-	14,053	96275644
TPE 80-520/2-S	18.5	16	80mm Flanged	300	-	-	16,920	96397058
TPE 80-570/2-S	22	16	80mm Flanged	300	-	-	19,874	96397061
TPE 100-120/2-S	2.2	6	100mm Flanged	200	-	-	AI F A BQQE	
					-	-	7,345	99133670
TPE 100-160/2-S	4	16	100mm Flanged	300	-	-	A F A BQQE	
TPE 100-200/2-S	5.5	16	100mm Flanged	300	-	-	7,312	99114836
TPE 100-240/2-S	7.5	16	100mm Flanged	300	-	-	8,525	99114837
TPE 100-250/2-S	11	16	100mm Flanged	300	-	-	9,470	99114838
TPE 100-310/2-S	15	16	100mm Flanged	300	-	-	13,225	99114824
TPE 100-360/2-S	18.5	16	100mm Flanged	300	-	-	15,016	96275686
TPE 100-390/2-S	22	16	100mm Flanged	300	-	-	17,834	96275692
					-	-	20,071	96275698

#### SERIES 2000 TPE PUMPS

These pumps are supplied with a single differential pressure transducer and are pre-programmed for close loop control.

These units are NOT RECOMMENDED for % speed change (uncontrolled mode) from an external analogue source (BMS). Use TPE2 or TPE series 1000 for this application.

These units are NOT SUITABLE for systems where power on/off control is a function of the plant room control. Digital stop/start is acceptable.

#### ELECTRIC MOTOR

380-500V / 3ph / 50Hz with IE5 efficiency up to 11kW

380-480V / 3ph / 50Hz from 15kW and above

IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product. See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

#### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. Selection is as for equivalent fixed speed model. See page 31 for codes and prices.



## CATEGORY 1 - TPED SERIES 2000 SINGLE STAGE TWIN HEAD IN LINE PUMPS

### SERIES 2000 CAST IRON PUMPS COMPLETE WITH 4 POLES VARIABLE SPEED ELECTRIC MOTOR AND INTEGRAL SENSOR

Model	P2 kW	PN bar	Pipework Connection	Design series	380-480/500V 3ph 50Hz	
					£	Product Code
					A F A BQQE	
TPED 65-240/4-S	4	16	65mm Flanged	300	14,753	99132851
TPED 80-150/4-S	3	16	80mm Flanged	300	13,173	99132853
TPED 80-170/4-S	4	16	80mm Flanged	300	15,617	99132855
TPED 80-240/4-S	5.5	16	80mm Flanged	300	18,119	99132856
TPED 80-270/4-S	7.5	16	80mm Flanged	300	POA	99132857
TPED 80-340/4-S	11	16	80mm Flanged	300	POA	96945801
TPED 100-65/4-S	1.1	16	100mm Flanged	300	12,009	99478033
TPED 100-70/4-S	1.5	16	100mm Flanged	300	12,398	99132858
TPED 100-90/4-S	2.2	16	100mm Flanged	300	13,796	99132859
TPED 100-110/4-S	3	16	100mm Flanged	300	15,124	99132860
TPED 100-130/4-S	4	16	100mm Flanged	300	16,938	99132861
TPED 100-170/4-S	5.5	16	100mm Flanged	300	19,085	99132862
TPED 100-200/4-S	7.5	16	100mm Flanged	300	POA	99132863
TPED 100-250/4-S	11	16	100mm Flanged	300	POA	96945808
TPED 100-330/4-S	15	16	100mm Flanged	300	POA	96945815
TPED 125-110/4-S	4	16	125mm Flanged	300	17,342	99132864
TPED 125-130/4-S	5.5	16	125mm Flanged	300	19,394	99132865
TPED 125-160/4-S	7.5	16	125mm Flanged	300	POA	99132866
TPED 125-190/4-S	11	16	125mm Flanged	300	POA	98743766
TPED 125-230/4-S	15	16	125mm Flanged	300	POA	98743724
TPED 150-130/4-S	7.5	16	150mm Flanged	300	POA	99132868
TPED 150-160/4-S	11	16	150mm Flanged	300	POA	96946129
TPED 150-200/4-S	15	16	150mm Flanged	300	POA	96945832

#### SERIES 2000 TPED PUMPS

These twin pumps are supplied with a single differential pressure transducer and are pre-programmed for close loop control.

These units are NOT RECOMMENDED for % speed change (uncontrolled mode) from an external analogue source (BMS). Use TPE2 D or TPED series 1000 for this application.

These units are designed for master and slave operation and are NOT SUITABLE for systems where power on/off control is a function of the plant room control.

Digital stop/start to both pump heads simultaneously is acceptable.

If independent pump operation is required then the slave pump must be fitted with an additional differential pressure transducer.

The extra fittings kit will allow two differential pressure transducers to be fitted on to the suction and discharge flanges - see page 39

#### ELECTRIC MOTOR

380-500V / 3ph / 50Hz with IE5 efficiency up to 7.5kW

380-480V / 3ph / 50Hz from 11kW and above

IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product. See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

#### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. Selection is as for equivalent fixed speed model. See page 31 for codes and prices.





## CATEGORY 1 - TPED SERIES 2000 SINGLE STAGE TWIN HEAD IN LINE PUMPS

### SERIES 2000 CAST IRON PUMPS COMPLETE WITH 2 POLES VARIABLE SPEED ELECTRIC MOTOR AND INTEGRAL SENSOR

Model	P2 kW	PN bar	Pipework Connection	Design series	230V 1ph 50Hz		380-480/500V 3ph 50Hz	
					£	Product Code	£	Product Code
					A F A BQQE		A F A BQQE	
TPED 32-230/2-S	0.75	6/10	32mm Flanged	200	7,168	99133613	8,480	99133609
TPED 32-200/2-S	1.1	16	32mm Flanged	300	7,743	99133596	8,728	99133591
TPED 32-250/2-S	1.5	16	32mm Flanged	300	8,009	99133598	9,386	99133592
TPED 32-320/2-S	2.2	16	32mm Flanged	300	-	-	10,512	99133593
TPED 32-380/2-S	3	16	32mm Flanged	300	-	-	11,717	99132803
TPED 32-460/2-S	4	16	32mm Flanged	300	-	-	12,656	99132804
TPED 32-580/2-S	5.5	16	32mm Flanged	300	-	-	14,732	99132805
TPED 40-270/2-S	1.5	6/10	40mm Flanged	200	7,815	99134474	9,560	99133715
TPED 40-300/2-S	3	16	40mm Flanged	300	-	-	11,908	99132806
TPED 40-360/2-S	4	16	40mm Flanged	300	-	-	13,384	99132807
TPED 40-430/2-S	5.5	16	40mm Flanged	300	-	-	15,689	99132808
TPED 40-530/2-S	7.5	16	40mm Flanged	300	-	-	17,729	99132809
TPED 40-630/2-S	11	16	40mm Flanged	300	-	-	POA	99132811
TPED 50-290/2-S	3	16	50mm Flanged	300	-	-	11,957	99132812
TPED 50-360/2-S	4	16	50mm Flanged	300	-	-	13,531	99132823
TPED 50-430/2-S	5.5	16	50mm Flanged	300	-	-	16,324	99132824
TPED 50-420/2-S	7.5	16	50mm Flanged	300	-	-	17,916	99132825
TPED 50-540/2-S	11	16	50mm Flanged	300	-	-	POA	99132829
TPED 50-630/2-S	15	16	50mm Flanged	300	-	-	POA	98742815
TPED 50-710/2-S	15	16	50mm Flanged	300	-	-	POA	96945769
TPED 50-830/2-S	18.5	16	50mm Flanged	300	-	-	POA	96945778
TPED 50-900/2-S	22	16	50mm Flanged	300	-	-	POA	96945790
TPED 65-210/2-S	3	16	65mm Flanged	300	-	-	12,006	99132830
TPED 65-250/2-S	4	16	65mm Flanged	300	-	-	13,560	99132831
TPED 65-340/2-S	5.5	16	65mm Flanged	300	-	-	16,481	99132832
TPED 65-410/2-S	7.5	16	65mm Flanged	300	-	-	18,442	99132834
TPED 65-460/2-S	11	16	65mm Flanged	300	-	-	POA	99132835
TPED 65-550/2-S	15	16	65mm Flanged	300	-	-	POA	96945772
TPED 65-660/2-S	18.5	16	65mm Flanged	300	-	-	POA	96945781
TPED 65-720/2-S	22	16	65mm Flanged	300	-	-	POA	96945793
TPED 80-180/2-S	3	16	80mm Flanged	300	-	-	12,394	99132837
TPED 80-210/2-S	4	16	80mm Flanged	300	-	-	13,876	99132838
TPED 80-240/2-S	5.5	16	80mm Flanged	300	-	-	14,825	99132839
TPED 80-250/2-S	7.5	16	80mm Flanged	300	-	-	18,639	99132840
TPED 80-330/2-S	11	16	80mm Flanged	300	-	-	POA	99132842
TPED 80-400/2-S	15	16	80mm Flanged	300	-	-	POA	96945763
TPED 80-520/2-S	18.5	16	80mm Flanged	300	-	-	POA	96945784
TPED 80-570/2-S	22	16	80mm Flanged	300	-	-	POA	96945797
TPED 100-120/2-S	2.2	6	100mm Flanged	200	-	-	AI F A BQQE	
					-	-	13,510	99133716
TPED 100-160/2-S	4	16	100mm Flanged	300	-	-	A F A BQQE	
TPED 100-200/2-S	5.5	16	100mm Flanged	300	-	-	13,550	99132844
TPED 100-240/2-S	7.5	16	100mm Flanged	300	-	-	15,961	99132845
TPED 100-250/2-S	11	16	100mm Flanged	300	-	-	17,843	99132847
TPED 100-310/2-S	15	16	100mm Flanged	300	-	-	POA	99132849
TPED 100-360/2-S	18.5	16	100mm Flanged	300	-	-	POA	96945766
TPED 100-390/2-S	22	16	100mm Flanged	300	-	-	POA	96945775
					-	-	POA	96945787

#### SERIES 2000 TPED PUMPS

These twin pumps are supplied with a single differential pressure transducer and are pre-programmed for close loop control.

These units are NOT RECOMMENDED for % speed change (uncontrolled mode) from an external analogue source (BMS). Use TPE2 D or TPED series 1000 for this application.

These units are designed for master and slave operation and are NOT SUITABLE for systems where power on/off control is a function of the plant room control.

Digital stop/start to both pump heads simultaneously is acceptable.

If independent pump operation is required then the slave pump must be fitted with an additional differential pressure transducer.

The extra fittings kit will allow two differential pressure transducers to be fitted on to the suction and discharge flanges - see page 39

#### ELECTRIC MOTOR

380-500V / 3ph / 50Hz with IE5 efficiency up to 11kW

380-480V / 3ph / 50Hz from 15kW and above

IP55 Class F insulation

#### IMPORTANT:

A Grundfos GO based communication device will be required in order to commission the "E" product. See Page 40 for details.

This device can be used to commission and monitor multiple pumps on multiple sites

#### BASEPLATES

When applicable, baseplates for TP(E)(D) are available as an accessory. Selection is as for equivalent fixed speed model. See page 31 for codes and prices.



## CATEGORY 1 - ACCESSORIES AND ANCILLARY EQUIPMENT

### FLANGE SETS - SCREWED

UP/MAGNA/TP

Item	Pumps	£	Product Code
1½" BSP Flange Set	UP36F	Obsolete	509903
1½" BSP Flange Set	UP36F	83	509904
2" BSP Flange Set	UP36F	84	509905
2" BSP Special Flange Set	UPS40	236	91200212
1¼" BSP PN10/16 Flange Set	MAGNAx/TP 32	113	539703
1½" BSP PN10/16 Flange Set	MAGNAx/TP 40	125	539701
2" BSP PN10/16 Flange Set	MAGNAx/TP 50	150	549801
2½" BSP PN10/16 Flange Set	MAGNAx/TP 65	170	559801
3" BSP PN6 Flange Set	MAGNAx/TP 80	188	569902
3" BSP PN10/16 Flange Set	MAGNAx/TP 80	207	569802
4" BSP PN10/16 Flange Set	MAGNAx/TP 100	302	579801

### FLANGE SETS - WELD NECK

UP/MAGNA/TP

		£	Product Code
32mm PN10/16 Flange Set	UP/MAGNA/TP 32	Obsolete	539704
40mm PN10/16 Flange Set	UP/MAGNA/TP 40	105	539702
50mm PN10/16 Flange Set	UP/MAGNA/TP 50	132	549802
80mm PN6 Flange Set	UPS80/TP80	63	96569180
80mm PN10/16 Flange Set	TP80	188	569801
100mm PN6 Flange Set	UPS100/TP 100	72	96569181
100mm PN10/16 Flange Set	TP 100	282	579802

Each flange set includes two flanges, two gaskets and two sets of nuts and bolts.

### BLANKING PLATES FOR TWIN HEAD PUMPS

	£	Product Code
MAGNA1 D 25-40/60/80/100/120	67	98159373
MAGNA1/MAGNA3 D 32-40/60/80/100		
MAGNA1/MAGNA3 D 40-40/60		
MAGNA1/MAGNA3 D 32-120		
MAGNA1/MAGNA3 D 40-80/100/120/150/180	75	98159372
MAGNA1/MAGNA3 D 50-40/60/80/100/120/150/180		
MAGNA1/MAGNA3 D 65-40/60/80/100/120/150		
MAGNA1/MAGNA3 D 80-40/60/80/100/120		
MAGNA1/MAGNA3 D 100-40/60/80/100/120	all models	
TPE2 D/TPE3 D		
TP(E)D 32/40/50/65		
TP(E)D 32/40/50/65/80/100		
TP(E)D 32/40/50/65/80/100	286	96591261
TP(E)D 32/40/50/65/80/100	96	565055
TP(E)D 32/40/50/65/80/100	270	96495694
TP(E)D 32/40/50/80	293	96495695
TP(E)D 50/65	360	96495696
TP(E)D 100/125	293	96525962
TP(E)D 150	804	96525963
TP(E)D 80/100/125	876	96525964

Note: Check the current TP data book for the required blanking plate product code for each pump size.

### OPTIONAL BASEPLATES COMPLETE WITH HEXAGON SCREWS

Ref.	Pump types	Pump Series	Design	£	Product Code
B1	TP(E) 32 to 65	Series 200	one square base	82	96591246
B2	TP(E) 65 to 100	Series 200	one square base	253	96591245
B3	TP(E) 32 to 100	Series 300 single head	one square base	157	485031
B4	TP(E) 80 to 150	Series 300 single head	one square base	180	96536246
B5	TP(E)D 32 to 100	Series 300 twin head	two separate baseplate runners	172	96489381
B6	TP(E)D 100	Series 300 twin head	two separate baseplate runners	171	96536247
B7	TP(E)D 80 to 150	Series 300 twin head	two separate baseplate runners	189	96536248
	TPE2 D, TPE3 D 32			206	99150053
	TPE2 D, TPE3 D 40			206	99150054
	TPE2 D, TPE3 D 50			206	99150055
	TPE2 D, TPE3 D 65			206	99150056
	TPE2 D, TPE3 D 80			206	99150056
	TPE2 D, TPE3 D 100			206	99150057

Please consult the data book for specific baseplate product codes for each pump model.

Series 100 pumps have no baseplate option.

Series 200 twin pumps have no baseplate option.

Except foot mounted TP Series 300, all other Series 200 and 300 pumps can have baseplates supplied loose at the extra price as indicated above.

Single head TPE2 and TPE3 are for pipework mounting have no baseplate option.

## CATEGORY 1 - INSULATION KITS

### INSULATION KITS FOR UPS2, ALPHA2L AND ALPHA2

Model	£	Product Code
UPS2 and ALPHA2L xx-xx 130 (except ALPHA2L 20-45)	26	505821
UPS3	26	99270706
ALPHAx xx-xx 130	29	98091786

### INSULATION KITS FOR SINGLE HEAD MAGNA1 AND MAGNA3 PUMPS - FOR COOLING APPLICATIONS

	MAGNA1		MAGNA3	
	£	Product Code	£	Product Code
MAGNAx 25-40/60/80/100/120 (N)	271	98538852	271	98354534
MAGNAx 32-40/60/80/100/120 (N)	288	98538853	306	98354535
MAGNAx 32-40/60/80/100 F (N)	306	98538854	340	98354536
MAGNAx 32-120 F (N)	306	98164595	323	98063287
MAGNAx 40-40/60 F (N)	356	98538855	356	98354537
MAGNAx 40-80/100 F (N)	356	98164597	356	98063288
MAGNAx 40-120/150/180 F (N)	356	98164598	356	98145675
MAGNAx 50-40/60/80 F (N)	397	98164599	397	98063289
MAGNAx 50-100/120/150/180 F (N)	397	98164600	397	98145676
MAGNAx 65-40/60/80/100/120/150 F (N)	428	98538839	428	96913593
MAGNAx 80-40/60/80/100/120 F	475	98538851	492	98134265
MAGNAx 100-40/60/80/100/120 F	545	98164611	479	96913589

### INSULATION KITS FOR SINGLE HEAD TPE2 AND TPE3 PUMPS

	HEATING		COOLING	
	£	Product Code	£	Product Code
TPE2, TPE3 32-80/120/150/180/200	67	98159366	323	98063287
TPE2, TPE3 40-80/120/150/180/200/240	68	98159368	356	98145675
TPE2, TPE3 50-60/80/120/150/180/200/240	86	98159367	397	98145676
TPE2, TPE3 65-60/80/120/150/180/200/240	81	98159361	428	96913593
TPE2, TPE3 80-40/120/150/180	120	98159363	492	98134265
TPE2, TPE3 100-40/120/150/180	147	98159362	479	96913589

Insulation kits are made of expanded polystyrene with good insulation qualities and fit around the pump in two or three pieces.

## CATEGORY 1 - CONTROL VALVE WITH ACTUATOR AND CONTROLLER

### MIXIT

Model	K <sub>vs</sub> m <sup>3</sup> /h	Port sizes	PN bar	230V 1ph 50Hz		
				Pump Ports	L NRV	R NRV
				£	Product Code	Product Code
MIXIT 25-6.3	6.3	G 1" 1/2	10	1664	99508816	99508818
MIXIT 25-10	10	G 1" 1/2	10	1809	99508819	99508820
MIXIT 32-16	16	G 2"	10	2027	99508822	99508834
				Pump Ports	L F	R F
				£	Product Code	Product Code
MIXIT 32-16	16	DN 32	6/10	2315	99508836	99508837
MIXIT 40-25	25	DN 40	6/10	TBA	99508838	99508839
MIXIT 50-40	40	DN 50	6/10	3111	99508840	99508841

Control valve with actuator and built-in controller for temperature control in heating and cooling applications, in tandem with a Magna3 circulator or a TPE3 pumps, in mixing and injection applications as 2 or 3 port valve.

MIXIT is compatible with MAGNA3 model D pumps from production code 1943 (YYWW).

#### Include:

Temperature sensors  
Flow sensor  
Replaceable non-return valve (threaded versions only)  
Insulation kit  
Grundfos BuildingConnect Free

Software updates are available separately



MIXIT L NRV



MIXIT R NRV

### MIXIT SOFTWARE UPGRADES

Model		Temperat	£	Product Code
MIXIT DYNAMIC	1 licence	Physical pack	POA	99558420
	1 licence	Online	POA	99725067
	5 licences	Online	POA	99725068
MIXIT CONNECT	1 licence	Physical pack	POA	99558443
	1 licence	Online	POA	99725069
	5 licences	Online	POA	99725070

#### MIXIT DYNAMIC UPGRADE

Pressure independence  
Heat energy monitor  
Balancing limiters



#### MIXIT CONNECT UPGRADE

Grundfos BuildingConnect Pro  
BacNet IP, BacNet MS/TP, Modbus TCP, Modbus RTU

### MIXIT ACCESSORIES

Model			Temperature	£	Product Code
Outdoor temperature sensor	Danfoss ESMT	PT1000	-30°C to +50°C	29.00	99113175
Insert for outdoor temperature sensor				135.00	99113176
Outdoor temperature sensor	DOL 114	0-10V	-40°C to +60°C	498.00	99113183
Outdorr shield for DOL 114				163.00	99113181
Temperature switch	JUMO		+50°C	163.00	99113180

## CATEGORY 1 - GRUNDFOS DOMESTIC WASTEWATER PRODUCTS

### STAINLESS STEEL SUBMERSIBLE SUMP PUMPS

### UNILIFT KP



Unilift KP

Model	Cable length	Level control	230V 1ph 50Hz	
			£	Product Code
Unilift KP 150 M1	5m	Manual	393	011H6000
Unilift KP 250 M1	5m	Manual	481	012H6000
Unilift KP 350 M1	10m	Manual	567	013N6300
Unilift KP 150 A1	5m	Float switch	413	011H6600
Unilift KP 250 A1	5m	Float switch	498	012H6600
Unilift KP 350 A1	10m	Float switch	608	013N6800
Unilift KP 150 AV1	5m	Vertical level switch	441	011H6400
Unilift KP 250 AV1	5m	Vertical level switch	530	012H6400
Unilift KP 350 AV1	10m	Vertical level switch	694	013N7900

Unilift KP AV1 models are for use with clean water only

			110V 1ph 50Hz	
			£	Product Code
Unilift KP 250 A1	5m	Float switch	548	012C6700

### ACCESSORIES

### UNILIFT KP

	£	Product Code
10 Metre Hose Kit comprising 1½" lay flat hose and fittings	300	99110020
Non-Return Valve (single)	27	97825322
Non-Return Valve (pack of 10)	55	96578978
Float Switch c/w 3 metres of cable	120	16650
Float Switch c/w 5 metres of cable	133	96590429
Float Switch c/w 10 metres of cable	143	96590420

### MULTI-PURPOSE COMPOSITE SUBMERSIBLE DRAINAGE PUMP

### UNILIFT CC



Unilift CC

Model		Level control	240V 1ph 50Hz	
			£	Product Code
Unilift CC 5 M1	5m	Manual	237	96280977
Unilift CC 7 M1	10m	Manual	287	96280979
Unilift CC 9 M1	10m	Manual	365	96280981
Unilift CC 5 A1	5m	Float switch	253	96280978
Unilift CC 7 A1	10m	Float switch	300	96280980
Unilift CC 9 A1	10m	Float switch	386	96280982

M=Manual Operation; A=Automatic Operation

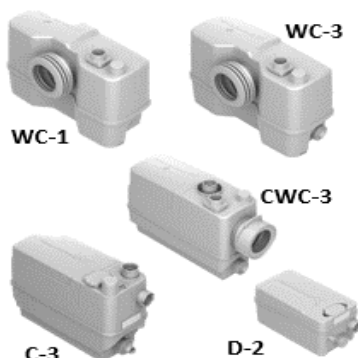


Multibox CC

	£	Product Code
Multibox CC 7 A-1 (a boxed Unilift CC 7, c/w 10m lay flat hose and fittings)	718	97519841

### MACERATORS

### SOLOLIFT2



Model		230-240V 1ph 50Hz	
		£	Product Code
SOLOLIFT2 WC-1	Behind the toilet* Macerator for the efficient removal of wastewater from a single toilet and sink.	POA	97775329
SOLOLIFT2 WC-3	Behind the toilet Macerator for the efficient removal of wastewater from a toilet, sink and shower. Please contact Grundfos regarding a bath installation.	POA	97775330
SOLOLIFT2 CWC-3	Macerator for the efficient removal of wastewater from a wall hung toilet, sink, shower and bidet. Please contact Grundfos regarding a bath installation.	POA	97775331
SOLOLIFT2 C-3	For the efficient removal of wastewater from a dish washer & washing machine, sink and bath.	POA	97775332
SOLOLIFT2 D-2	For the efficient removal of wastewater from a shower and sink.	POA	97775333

Accessories	for unit		£	Product Code
Drain hose	WC-1 WC-3	Allows drain down of unit. Must be fitted during installation.	43	97789093
Hose for Unit Replacement	All units	Length 0.5m, for replacing other manufacturers products.	56	97772316
Alarm PCB	WC-1/3 CWC-3	Audible indication of excessive running time due to blockage.	112	97772315
Pipe reducer inlet/outlet	All units	Reducer converts 1 1/2" connection to 1 1/4" (36mm OD pipe)	38	97775336
Additional inlet kit D40/40/32	D-2	Flexible reducer, connects 1 1/2" pipe to 2nd inlet on D2	48	97775334

## CATEGORY 1 - UNILIFT AP STAINLESS STEEL WASTEWATER PUMPS

### STAINLESS STEEL SUBMERSIBLE SUMP PUMPS

#### UNILIFT AP

240V 1ph 50Hz

Model	P2 (kW)	Discharge	Level control	£	Product Code
Unilift AP 12.40.04.1	0.40	Rp 1" ½	Manual	1,110	96011014
Unilift AP 12.40.06.1	0.60	Rp 1" ½	Manual	1,162	96001732
Unilift AP 12.40.08.1	0.80	Rp 1" ½	Manual	1,313	96001873
Unilift AP 12.50.11.1	1.10	Rp 2"	Manual	1,851	96001962
Unilift AP 12.40.04.A1	0.40	Rp 1" ½	Float switch	1,203	96404179
Unilift AP 12.40.06.A1	0.60	Rp 1" ½	Float switch	1,281	96404180
Unilift AP 12.40.08.A1	0.80	Rp 1" ½	Float switch	1,439	96404181
Unilift AP 12.50.11.A1	1.10	Rp 2"	Float switch	2,003	96404182
Unilift AP 35.40.06.1	0.60	Rp 1" ½	Manual	1,324	96001808
Unilift AP 35.40.08.1	0.80	Rp 1" ½	Manual	1,450	96001894
Unilift AP 35.40.06.A1	0.60	Rp 1" ½	Float switch	1,731	96404183
Unilift AP 35.40.08.A1	0.80	Rp 1" ½	Float switch	1,563	96404184
Unilift AP 50.50.08.1	0.80	Rp 2"	Manual	1,904	96010599
Unilift AP 50.50.11.1	1.10	Rp 2"	Manual	2,876	96010581
Unilift AP 50.50.08.A1	0.80	Rp 2"	Float switch	2,078	96404185
Unilift AP 50.50.11.A1	1.10	Rp 2"	Float switch	3,050	96404186



Unilift AP 35

All single phase models have self-contained starters built into the head of the pump and 10m cable.

### STAINLESS STEEL WASTE WATER PUMPS

#### UNILIFT AP

415V 3ph 50Hz

Model	P2 (kW)	Discharge	Level control	Starter	£	Product Code
Unilift AP 12.40.04.3	0.40	Rp 1" ½	Manual	not included	1,075	96011024
Unilift AP 12.40.06.3	0.60	Rp 1" ½	Manual	not included	1,123	96001652
Unilift AP 12.40.08.3	0.80	Rp 1" ½	Manual	not included	1,270	96001791
Unilift AP 12.50.11.3	1.10	Rp 2"	Manual	not included	1,793	96001975
Unilift AP 12.40.04.A3	0.40	Rp 1" ½	Float switch	built-in	1,333	96011025
Unilift AP 12.40.06.A3	0.60	Rp 1" ½	Float switch	built-in	1,415	96010923
Unilift AP 12.40.08.A3	0.80	Rp 1" ½	Float switch	built-in	1,544	96010925
Unilift AP 12.50.11.A3	1.10	Rp 2"	Float switch	built-in	2,076	96010927
Unilift AP 35.40.06.3	0.60	Rp 1" ½	Manual	not included	1,283	96000169
Unilift AP 35.40.08.3	0.80	Rp 1" ½	Manual	not included	1,402	96001718
Unilift AP 50.50.08.3	0.80	Rp 2"	Manual	not included	1,843	96010563
Unilift AP 50.50.11.3	1.10	Rp 2"	Manual	not included	2,793	96010562
Unilift AP 35.40.06.A3	0.60	Rp 1" ½	Float switch	built-in	1,560	96010929
Unilift AP 35.40.08.A3	0.80	Rp 1" ½	Float switch	built-in	1,684	96010931
Unilift AP 50.50.08.A3	0.80	Rp 2"	Float switch	built-in	2,133	96010933
Unilift AP 50.50.11.A3	1.10	Rp 2"	Float switch	built-in	3,083	96010935



Unilift AP 35

All 3 phase units require an external starter.  
Starters are supplied with all A3 models.

### AUTOMATIC CONDENSATE PUMP

#### CONLIFT

240V 1ph 50Hz

Model	£	Product Code
CONLIFT 1 LS condensate removal pump	POA	98452219
CONLIFT 1 condensate removal pump	POA	97936173



Conlift1



Alarm PCB



PH+ box

Conlift Accessories	£	Product Code
PH + Box	POA	97936176
Hose Ext	POA	97936177
Refill Pack	POA	97936178
Alarm PCB	POA	97936209



## CATEGORY 1 - DOMESTIC PRESSURE BOOSTING AND SHOWER PUMP PRODUCTS

### GRUNDFOS HOME BOOSTERS



	Maximum Pressure	240V 1ph 50Hz	
		£	Product Code
Home Booster 3.0 bar*	3.6 bar	POA	MD300200
Home Booster 4.5 bar*	5.6 bar	POA	MD450200
Home Booster Spare/Slave 180L Water Tank *		POA	MCST0200
* Pallet quantity = 2			
UPA 15-90N	1/2" Unions	POA	99539153

### MAX-E BOOST

240V 1ph 50Hz	Maximum Pressure	£	Product Code
Max-E Boost	5.0 bar	POA	98536448

### SCALA1



240V 1ph 50Hz		£	Product Code
SCALA1 3-35	Subject to category Cat3B price and discount		99530409
SCALA1 3-45	Subject to category Cat3B price and discount		99530410
SCALA1 5-55	Subject to category Cat3B price and discount		99530412
Sizing – up to three floors and eight standard domestic outlets			
* Pallet quantity = 14			

### SCALA2



240V 1ph 50Hz		£	Product Code
SCALA2 3-45 A	Subject to category Cat3B price and discount		98562865
Sizing – up to three floors and eight standard domestic outlets			
* Pallet quantity = 14			

### SCALA1/SCALA2 - ACCESSORIES

	£	Product Code
Connection Hose 1 inch RP/ speedfit	POA	97894516

## GRUNDFOS SHOWER PUMPS

WRAS approved product

### GRUNDFOS SHOWER PUMPS - STR2 POSITIVE HEAD SHOWER BOOSTER



240V 1ph 50Hz		£	Product Code
<b>Single Impeller Regenerative</b>			
SSR2-2.0 C	2.0 bar	POA	98950218
<b>Twin Impeller Regenerative</b>			
STR2-1.5 C	1.5 bar	POA	98950216
STR2-2.0 C	2.0 bar	POA	98950217
<b>240V 1ph 50Hz</b>			
<b>Universal Single Impeller Regenerative</b>			
SSR2-2.0 CN	2.0 bar	POA	98950231
<b>Universal Twin Impeller Regenerative</b>			
STR2-1.5 CN	1.5 bar	POA	98950219
STR2-2.0 CN	2.0 bar	POA	98950220

### GRUNDFOS SHOWER PUMPS - AMAZON POSITIVE HEAD SHOWER BOOSTER



240V 1ph 50Hz		£	Product Code
<b>Positive Single Impeller Brass Heavy Duty Regenerative</b>			
SSP-2.0 B	2.0 bar	POA	96787450
SSP-3.0 B	3.0 bar	POA	96787464
<b>Positive Twin Impeller Brass Heavy Duty Regenerative</b>			
STP-1.5 B	1.5 bar	POA	96787446
STP-2.0 B	2.0 bar	POA	96787462
STP-3.0 B	3.0 bar	POA	96787466
STP-4.0 B	4.0 bar	POA	96787471

### GRUNDFOS SHOWER PUMPS - AMAZON UNIVERSAL HEAD SHOWER BOOSTER



240V 1ph 50Hz		£	Product Code
<b>Universal Single Impeller Brass Heavy Duty Regenerative</b>			
SSN-2.0 B	2.0 bar	POA	96787504
SSN-3.0 B	3.0 bar	POA	96787512
<b>Universal Twin Impeller Brass Heavy Duty Regenerative</b>			
STN-1.5 B	1.5 bar	POA	96787503
STN-2.0 B	2.0 bar	POA	96787505
STN-3.0 B	3.0 bar	POA	96788173
STN-4.0 B	4.0 bar	POA	96788176
Universal head equals positive and negative head.			

### GRUNDFOS SHOWER PUMPS - ACCESSORIES

		£	Product Code
Surrey Flange 15mm		POA	98381635
Surrey Flange 22mm		POA	98381636
Surrey Flange 15mm	Box of 10	POA	98381638
Surrey Flange 22mm	Box of 10	POA	98381639
22mm York Flange Deflector		POA	98381637

## CATEGORY 1 - GRUNDFOS CUE FREQUENCY CONVERTERS WITH RFI FILTER

### CUE 380-440V 3ph 50Hz IP20 RFI FILTER CATEGORY C1

kW	Max output current (A)	IP rating	Enclosure type	Standard version		With Safe Torque Off option	
				£	Product Code	£	Product Code
0.55	1.8	IP20	A2	955	99616707	1047	99616731
0.75	2.4	IP20	A2	990	99616708	1083	99616733
1.1	3	IP20	A2	1,043	99616709	1145	99616734
1.5	4.1	IP20	A2	1,104	99616710	1208	99616735
2.2	5.6	IP20	A2	1,216	99616711	1335	99616736
3	7.2	IP20	A2	1,337	99616712	1466	99616737
4	10	IP20	A2	1,497	99616713	1638	99616738
5.5	13	IP20	A3	1,729	99616714	1896	99616739
7.5	16	IP20	A3	2,045	99616715	2242	99616740
11	24	IP20	B3	2,334	99616716	2557	99616741
15	32	IP20	B3	2,685	99616717	2942	99616742
18.5	37.5	IP20	B3	2,994	99616718	3278	99616743
22	44	IP20	B4	3,300	99616719	3617	99616744
30	61	IP20	B4	3,998	99616720	4381	99616745
37	73	IP20	B4	4,408	99616721	4828	99616746
45	90	IP20	C3	4,876	99616722	5339	99616747
55	106	IP20	C3	6,067	99616723	6646	99616748
75	147	IP20	C4	7,368	99616724	8069	99616749
90	177	IP20	C4	8,343	99616725	9138	99616750

### CUE 380-440V 3ph 50Hz IP21 RFI FILTER CATEGORY C3

kW	Max output current (A)	IP rating	Enclosure type	Standard version		With Safe Torque Off option	
				£	Product Code	£	Product Code
110	212	IP21	D1h	9,642	99616726	10561	99616751
132	260	IP21	D1h	11,076	99616727	12128	99616752
160	315	IP21	D2h	12,893	99616728	14119	99616753
200	395	IP21	D2h	15,494	99616729	16967	99616754
250	480	IP21	D2h	18,745	99616730	20526	99616755

### CUE 380-440V 3ph 50Hz IP55 RFI FILTER CATEGORY C1

kW	Max output current (A)	IP rating	Enclosure type	Standard version		With Safe Torque Off option	
				£	Product Code	£	Product Code
0.55	1.8	IP55	A4	1,191	99616756	1791	99616781
0.75	2.4	IP55	A4	1,232	99616757	1834	99616782
1.1	3	IP55	A4	1,301	99616758	1911	99616783
1.5	4.1	IP55	A4	1,378	99616759	2001	99616784
2.2	5.6	IP55	A4	1,517	99616760	2171	99616785
3	7.2	IP55	A4	1,669	99616761	2350	99616786
4	10	IP55	A4	1,868	99616762	2570	99616787
5.5	13	IP55	A5	2,160	99616763	2906	99616788
7.5	16	IP55	A5	2,554	99616764	3342	99616789
11	24	IP55	B1	2,915	99616765	4037	99616790
15	32	IP55	B1	3,352	99616766	4534	99616791
18.5	37.5	IP55	B1	3,735	99616767	5005	99616792
22	44	IP55	B2	4,120	99616769	5472	99616793
30	61	IP55	B2	4,998	99616770	6467	99616794
37	73	IP55	C1	5,508	99616771	7439	99616795
45	90	IP55	C1	6,094	99616772	8176	99616796
55	106	IP55	C1	7,584	99616773	9908	99616797
75	147	IP55	C2	9,210	99616774	12284	99616798
90	177	IP55	C2	10,428	99616775	13747	99616799

### CUE 380-440V 3ph 50Hz IP54 RFI FILTER CATEGORY C3

kW	Max output current (A)	IP rating	Enclosure type	Standard version		With Safe Torque Off option	
				£	Product Code	£	Product Code
110	212	IP54	D1h	12,054	99616776	18087	99616800
132	260	IP54	D1h	13,841	99616777	POA	99616801
160	315	IP54	D2h	16,117	99616778	POA	99616802
200	395	IP54	D2h	19,366	99616779	POA	99616803
250	480	IP54	D2h	23,430	99616780	POA	99616804

Wall mounted models may require a back-plate, please contact the sales office for further information.



## CATEGORY 1 - GRUNDFOS CUE FREQUENCY CONVERTERS WITH RFI FILTER

### CUE 200-240/1/50Hz IP20/21 RFI FILTER CATEGORY C1



kW	Max output		IP	Enclosure type	£	Product Code
	current (A)					
1.1	6.6		IP20	A3	1,753	99616601
1.5	7.5		IP21	B1	1,879	99616602
2.2	10.6		IP21	B1	2,081	99616613
3	12.5		IP21	B1	2,400	99616614
3.7	16.7		IP21	B1	2,791	99616615
5.5	24.2		IP21	B1	3,234	99616616
7.5	30.8		IP21	B2	4,030	99616617

### CUE 200-240/1/50Hz IP55 RFI FILTER CATEGORY C1



kW	Max output		IP	Enclosure type	£	Product Code
	current(A)					
1.1	6.6		IP55	A5	1,941	99616618
1.5	7.5		IP55	B1	2,234	99616619
2.2	10.6		IP55	B1	2,601	99616620
3	12.5		IP55	B1	2,913	99616621
3.7	16.7		IP55	B1	3,290	99616622
5.5	24.2		IP55	B1	3,876	99616623
7.5	30.8		IP55	B2	4,649	99616624

All single phase CUE inverters have a 3x200-240V output power supply to drive a 3ph motor.

### OUTPUT FILTERS IP20 380-440V 3ph 50Hz

kW	Sine Wave type		dV/dT type	
	£	Product Code	£	Product Code
0.55	571	96754941	-	TBC
0.75	571	96754941	-	TBC
1.1	656	96754972	-	TBC
1.5	656	96754972	-	TBC
2.2	756	96754973	-	TBC
3	756	96754973	-	TBC
4	887	96754974	-	TBC
5.5	971	96754976	-	TBC
7.5	971	96754976	-	TBC
11	1509	96754977	1,047	97669799
15	2109	96754978	1,047	97669799
18.5	2109	96754978	1,047	97669799
22	3690	96755019	1,047	97669799
30	4364	96755021	1,855	97669869
37	5037	96755032	1,855	97669869
45	6842	97774436	1,855	97669869
55	6842	97774436	3,230	97669896
75	9880	97775142	3,710	97669902
90	9880	97775142	3,710	97669902
110	11934	97775146	4,721	97669905
132	11934	97775146	4,721	97669905
160	16004	97775148	4,721	97669905
200	16004	97775148	5,564	97669906
250	19214	97775149	5,564	97669906

Note: All output filters are IP20 and require to be housed in a protective cabinet.

### OUTPUT FILTERS IP20 200-240V 1ph 50Hz

Sine wave type		£	Product Code
kW			
1.1		756	96754973
1.5		756	96754973
2.2		971	96754976
3		971	96754976
3.7		971	96754976
5.5		1,509	96754977
7.5		2,109	96754978

Note: All output filters are IP20 and require to be housed in a protective cabinet.

Wall mounted models may require a back-plate, please contact the sales office for further information.

ACCESSORIES	£	Product Code
Floor mounting pedestal for D1 & D2 enclosures	1,506	96801230
Sensor input module MCB 114	332	96760901

## CATEGORY 1 - VARIABLE SPEED PUMP ACCESSORIES

### PRESSURE TRANSDUCER - SINGLE POINT PRESSURE TRANSMITTER FOR OPEN CIRCUIT APPLICATIONS (NO CABLE)



Item	Fittings	Pressure range	£	Product Code
Danfoss MBS 3000	1/2" BSPM	0-2.5 bar	294	99033768
Danfoss MBS 3000	1/2" BSPM	0-4 bar	294	96637450
Danfoss MBS 3000	1/2" BSPM	0-6 bar	294	96637451
Danfoss MBS 3000	1/2" BSPM	0-10 bar	294	96637452
Danfoss MBS 3000	1/2" BSPM	0-16 bar	294	96637453
Danfoss MBS 3000	1/2" BSPM	0-25 bar	296	91072079
Danfoss MBS 3000	1/2" BSPM	0-40 bar	677	96483573
Danfoss MBS 3000	1/2" BSPM	0-60 bar	677	96483574

No cable included, except for 40 e 60bar models

Output signal: 4-20mA

### DIFFERENTIAL PRESSURE TRANSDUCER KIT - FOR SEALED CIRCUIT APPLICATIONS



Item	Pressure range	£	Product Code
DPI Transducer Kit	0-0.6 bar	889	96611522
DPI Transducer Kit	0-1 bar	889	96611523
DPI Transducer Kit	0-1.6 bar	889	96611524
DPI Transducer Kit	0-2.5 bar	889	96611525
DPI Transducer Kit	0-4 bar	889	96611526
DPI Transducer Kit	0-6 bar	889	96611527
DPI Transducer Kit	0-10 bar	889	96611550

DPI transducer kits need to be connected across the suction and discharge pipework.

Includes 0.9m screened cable, wall/motor bracket, capillary tubes and fittings.

Output signal: 4-20mA



Item	Pressure range	£	Product Code
DPS Transducer Kit	0-4 bar	POA	99725401
DPS Transducer Kit	0-6 bar	POA	99725451
DPS Transducer Kit	0-10 bar	POA	99725455

To be used with MGE permanent magnet motors (models H, I and J) only

Includes cable, motor bracket, capillary tubes and fittings.

### COMBINED RELATIVE PRESSURE AND TEMPERATURE SENSOR - for MAGNA3 and TPE3 heat monitor function



Item	Range		£	Product Code
	Temperature	Pressure		
RPI T2	-10/120°C	0-16 bar	291	98355521

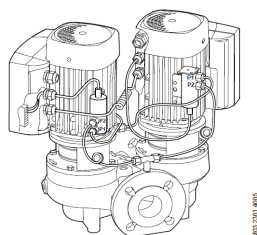
Output signal: 2x 0-10V

Pipe connection: 1/2" BSPM

M12 plug

### DIFFERENTIAL PRESSURE TRANSDUCER FITTINGS KIT

Where customers wish to use two differential pressure transducers on a twin head TPED or TPE2 D pump, a fittings kit is required. These fitting kits will provide the necessary additional plumbing connections.



	£	Product Code
For all TPED models	129	96491010
For TPE2 D - DN32 and DN100 models	129	96491010
For TPE2 D - DN40, DN50, DN65 and DN80 models	132	99040405

The above comprises 2 Tees and 2 hexagon nipples.

**Note:** Pressure transducers are used for "feed back" information and to ensure automatic speed control on all TPE(D)/TPE2 (D)/TPE3 (D) models. TPE(D) 2000 and TPE3 (D) models have factory fitted differential pressure transducer. For closed loop heating and chilled water systems, "differential pressure transducers" are more commonly used to attain the most accurate "feed back".

Where the pump developed pressure is equal to or greater than the "system pressure" then single point pressure transmitters can be successfully used.

The pressure at the pump suction should remain stable during all flow conditions in the system. Suggested transducer sizes are referenced against each TPE/TPED model. When selecting a Differential Pressure Transducer please use the suggested size. If selecting a Single Point Transducer, refer to the pump curve and then add the system operating pressure to the closed valve pressure on the pump curve for the appropriate size.

**NOTE - All list prices above are subject to Category 4 discount terms**

## CATEGORY 1 - COMMUNICATION

### GRUNDFOS GO REMOTE

The Grundfos Go Remote is used for wireless infrared or radio communication with the pumps.



Model		£	Product Code
MI 301	Universal dongle for iOS and Android based Smartphones	461	98046408

### DATA COMMUNICATION INTERFACE - BUILT-IN CARDS - please refer to the table below



Model	MAGNA 3	MGE motor <sup>1)</sup>	Multi-E		£	Product Code
			PM motor <sup>2)</sup>	CU 352 CU 362		
CIM 050 GENibus	x	Built-in	Built-in	Built-in	170	96824631
CIM 100 LON	x	x	x		320	96824797
CIM 110 LON				x <sup>3)</sup>	320	96824798
CIM 150 Profibus DP	x	x	x	x	352	96824793
CIM 200 Modbus RTU/COMLI	x	x	x	x	320	96824796
CIM 260 Cellular EU <sup>1)</sup>	x	x	x	x	697	99439302
CIM 280 GRM/GIC EU <sup>1)</sup> <sup>2)</sup>	x	x	x	x	697	99439724
CIM 300 BACnet MS/TP	x	x	x	x <sup>3)</sup>	320	96893770
CIM 500 Ethernet <sup>2)</sup> <sup>3)</sup>	x	x	x	x	691	98301408

<sup>1)</sup> Antenna not included

<sup>4)</sup> One CIM card is required per master pump

<sup>3)</sup> Not available for CU362

<sup>4)</sup> Twin head TPED from 11kW (4 poles) and 15kW (2 poles) and above require a CIU.

For use with PHT A Grundfos pressurization units, please refer to page 5 of Cat 3B price list.

<sup>2)</sup> Grundfos Remote Management requires a license purchase for the provision of web services.

Please contact Grundfos for further information

<sup>3)</sup> CIM500 supports Modbus TCP/ BACNET IP/ PROFINET/ ETHERNET IP/ GRUNDFOS REMOTE MANAGEMENT

### DATA COMMUNICATION INTERFACE for waste water AutoADAPT pumps



Model	£	Product Code
CIM 050 GENibus	170	96824631
CIM 150 Profibus DP	352	96824793
CIM 500 Ethernet <sup>see note b)</sup>	691	98301408
CIM 260 Cellular EU <sup>1)</sup>	697	99439302
CIM 280 GRM/GIC EU <sup>1)</sup> <sup>2)</sup>	697	99439724

### DATA COMMUNICATION INTERFACE - EXTERNAL BOXES - please refer to the table below

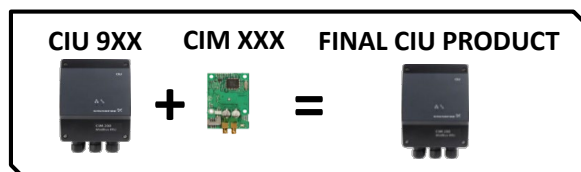


	£	Product Code
CIU 900 <sup>1)</sup>	290	99448387
CIU 901 With I/O board	422	99448389
CIU 902 Waste Water Auto Adapt	686	97644690
CIU 903 SQ Flex	686	98106399

<sup>1)</sup> Antenna not included

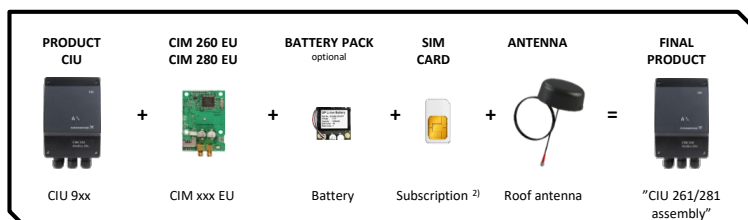
<sup>4)</sup> For use with Older Hydro Multi-E models / CUE / MP 204/ CU300/ Older MGE/ 11KW-22KW MGE

### DATA COMMUNICATION INTERFACE - EXTERNAL BOXES - Selection example please refer to the table below



Model	CIU 900	CIU 901	CIU 902	CIU 903
CIM 100 LON	x			
CIM 150 Profibus DP	x		x	
CIM 200 Modbus RTU/COMLI	x	x	x	
CIM 300 BACnet MS/TP	x		x	
CIM 500 Modbus TCP / Profinet IC	x	x	x	x
CIM 260 Cellular Text	x	x	x	
CIM 280 GRM /GIC	x	x	x	x

### DATA COMMUNICATION INTERFACE - EXTERNAL BOXES - Selection Example for GSM or Grundfos Remote Management



Model	£	Product Code
2G/3G/4G Roof Antenna	152	99518079
Battery Pack <sup>1)</sup>	51	99499908

<sup>1)</sup> CIM 260 and CIM280 can accommodate a rechargeable battery to allow the CIM card to transmit in the event of power failure.

<sup>2)</sup> SIM supply optional. Please contact Grundfos.

**NOTE - All the above list prices are subject to Category 4 discount terms**

## CATEGORY 1 - DOCUMENTATION AND TESTING

### DOCUMENTATION

#### TP(E)(D) PUMPS

All pumps will be supplied with one English (or multi-language) version of the appropriate Installation and operating instructions.

A separate Safety Instructions document which includes a CE Declaration of Conformity and electrical, safety and maintenance information is also included.

These documents will be included within the product packaging and further copies are available upon request.

Documents provided can also be downloaded in pdf format from the Grundfos Product Center.

Any additional documentation requirements should be referred to your Sales Office contacts.

Please note there is a minimum handling fee of £10 net per POD.

### CERTIFICATES & TESTING FOR TP/TPD, TPE/TPED PUMPS

SALES OFFICE GENERATED CERTIFICATES (NOT COVERED BY EN10204)	£ NET	Product Code
	PER PUMP	
Letter of conformity	FOC	GBLOC001
Typical Test Certificate (Test Report - Non specific inspection and testing)	70	GBTTC001
<b>PRODUCTION GENERATED CERTIFICATES EN 10204 (must be requested at time of order)</b>		
Letter of conformity	POA	96507895
Typical Test Certificate	POA	96507896
Standard test report according to ISO 9906:2012 grade 2B (5 point performance test)	POA	96507930
Inspection Certificate (EN 10204 3.1) - includes hydrostatic tests	POA	96507897
Inspection Certificate - Lloyds Register of Shipping LRS (EN 10204 3.2)	POA	96507898
Inspection Certificate - Det Norske Veritas DNV (EN 10204 3.2)	POA	96507899
Inspection Certificate - Germanischer Lloyd GL (EN 10204 3.2)	POA	96507920
Inspection Certificate - Bureau Veritas BV (EN 10204 3.2)	POA	96507921
Inspection Certificate - American Bureau of Shipping ABS (EN 10204 3.2)	POA	96507922
Inspection Certificate - Various other listed bodies	POA	On request
<b>PRODUCTION GENERATED REPORTS ON GRUNDFOS VARIANTS (must be requested at time of order)</b>		
ATEX Approved Pump Report	POA	96512240

#### GENERAL NOTES

1 : All Production Test certificates and reports need to be agreed at order stage as these are incorporated into the pump product code cannot be produced retrospectively and must be arranged at time of order

2 : All Production Test certificates except witness test certificates are included in the packaging

3 : ALL PRICES ARE NET PER PUMP AND NOT SUBJECT TO ANY FURTHER DISCOUNT



## Notes

## Notes

## Notes

## CONDITIONS OF SALE AND SERVICE

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

### 1. INTERPRETATION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Quotation: a written quotation issued by Grundfos.

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

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

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

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

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

1.2 Headings in these conditions shall not affect their interpretation.

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

1.4 The schedules and annexes form part of this Agreement.

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

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

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

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

### 2. Basis of Agreement

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

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

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

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

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

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

2.4 These Conditions shall:

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

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

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

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

2.6 Quotations shall only be valid if issued in writing.

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

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

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

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

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

### 3. Equipment

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

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

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

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

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

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

### 4. Delivery of Equipment

4.1 Grundfos shall deliver the Equipment to the Delivery Location.

4.2 Delivery of the Equipment shall be completed on:

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

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

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

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

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

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

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

(b) Grundfos may:

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

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

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

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

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

4.8 Grundfos may deliver the Equipment by instalments.

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

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

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

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

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

10.4	The Customer shall not, without the prior written consent of Grundfos, at any time from the date of this Agreement to the expiry of 12 months after the last date of supply of the Services, solicit or entice away from Grundfos or employ (or attempt to employ) any person who is, or has been, engaged as an employee of Grundfos in the provision of the Services.	
11.	<b>The CDM Regulations</b>	
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.	<b>Charges and Payment</b>	
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.	<b>Warranty and Limitation of Liability</b>	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); (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.	16.2
	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).	
	<b>Confidentiality and Grundfos' property</b>	
	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.	
	<b>Intellectual Property Rights</b>	
	(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.	
	<b>Data protection</b>	
	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.	
	<b>Termination</b>	
	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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