

Grundfos Industrial Products

Price List February 2020

Category 2



PRODUCTS INCLUDED:

NB(E)
CRI(E), CRN(E)
CRT
CM(E), CMB, CMBE
MTA, MTH, MTR
SPK



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

A copy of our full terms and conditions are available at the back of this price list

All prices are delivered at place (DAP) and subject to VAT at the standard rate.

MINIMUM ORDER VALUE

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

EXPRESS DELIVERY OPTIONS;

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

- CR(I)(E), CRN(E) Vertical Multistage
 - Non-stock SP/SPA models (with or without drop cable cut in 5 metre increments. Please note; resin cable joint will take 24 hours to set)
 - Order must be received electronically by **10.45am** – despatch same day, **delivery by Express Carrier Service** – UK (*note restrictions apply)
- £75.00 NET (PER ITEM)**

BOXSPEED (PER ITEM) – from UK/European DC (above **100** Kgs – subject to transport availability and additional cost)

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

FIRST ITEM - £55.00 NET & ADDITIONAL ITEMS £20.00 EACH (PER ORDER)

SPARESPEED (PER ITEM)

- Only applies to spares kits, (**not chamber stacks, components, pump heads or terminal boxes**)
- Order must be received electronically before **13:30pm** – despatch same day, **delivery by Express Carrier Service** – UK (*note restrictions apply)

FIRST ITEM - £45.00 NET & ADDITIONAL ITEMS £20.00 EACH (PER ORDER)

* Express Carrier Service ONLY guaranteed if placed on time via Extranet/EDI. Deliveries to the Highlands, certain mainland post codes and offshore UK may take an extra day. All services are dependent on component and product availability. Grundfos can guarantee despatch or availability for collection same day but cannot guarantee delivery. Grundfos cannot accept any cancellations or amendments once the goods have been despatched. Cancellations are subject to the Product Returns Fee below.

SPARES STANDARD DELIVERY CHARGE

- A **£20.00 NET** handling fee will be applied, per order, to all orders for spares, pump components, spares kits.
- This charge does NOT apply if **SPARESPEED**, express service or our online ordering system (EDI), and/or Extranet are used for order placement.

PRODUCT RETURNS FEE

- On receipt of written agreement from Grundfos, items can be returned and will be subject to a **minimum 35% restocking fee**. Goods must be returned in their original packaging and within **6 months of date of despatch**. All returns will be subject to inspection, to ascertain age, condition and product type and can incur an increased restocking charge. Please contact grundfos-uk@sales.grundfos.com with the original purchase order, to arrange collection. Do not send items to Grundfos as they will be refused delivery, collection will be arranged.
- Items or multiple items from the same Purchase Order must exceed the total Net value of £150

Exclusions to Product Returns apply;

- **All Service kits, cable including attached to pump, assembled/3rd party/engineered to order product, and obsolete/phased out product cannot be returned.**

STORAGE CHARGE

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

WARRANTY PERIOD

- Grundfos pumps are warranted for 24 months from installation or 30 months from manufacture; whichever is the sooner.
- There is a five-year warranty that covers manufacturing or material defects on domestic heating circulators: UPS3 15-50/65, UPS2 15-50/60, ALPHA models, Amazon & Amazon Universal shower pumps. From 1st March 2017 SCALA2 booster pumps when used in domestic applications.

SERVICE AND COMMISSIONING

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

ORDER TRACKING AND PROOF OF DELIVERY

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

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CATEGORY 2 - NB SINGLE STAGE END SUCTION BLOC PUMPS - EN733

COMPLETE WITH 2 POLES / 2900 RPM IE3 MOTORS

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
			A F2 A E BQQE
			AS F2 A E BQQE
NB 32-125.1/100	0.75	1,215	98127503
NB 32-125.1/110	1.1	1,261	98052673
NB 32-125.1/121	1.5	1,322	98124465
NB 32-125.1/140	2.2	1,367	97925276
NB 32-125/106	1.1	1,272	98127311
NB 32-125/115	1.5	1,335	98042368
NB 32-125/130	2.2	1,373	98092892
NB 32-125/142	3	1,630	98769449
NB 32-160.1/139	1.5	1,390	98177522
NB 32-160.1/155	2.2	1,443	98654499
NB 32-160.1/169	3	1,677	98052675
NB 32-160.1/177	4	1,911	98630634
NB 32-160/139	2.2	1,462	98664484
NB 32-160/151	3	1,689	98054003
NB 32-160/163	4	1,890	97925279
NB 32-160/177	5.5	2,286	98856186
NB 32-200.1/172	3	1,791	98300258
NB 32-200.1/188	4	2,004	98492835
NB 32-200.1/205	5.5	2,320	98177816
NB 32-200.1/207	7.5	2,533	98844217
NB 32-200/176	4	2,016	98844220
NB 32-200/190	5.5	2,335	98281463
NB 32-200/206	7.5	2,522	98042381
NB 32-200/219	11	3,269	98300257
NB 32-250/199	5.5	2,529	98844241
NB 32-250/219	7.5	2,723	98665396
NB 32-250/244	11	3,287	98976261
NB 32-250/262	15	3,626	98976263
NB 40-125/105	1.5	1,438	98075312
NB 40-125/116	2.2	1,481	98127774
NB 40-125/127	3	1,753	98701179
NB 40-125/139	4	1,963	98810277
NB 40-125/142	5.5	2,246	98643514
NB 40-160/144	4	1,938	97933638
NB 40-160/158	5.5	2,352	98490590
NB 40-160/172	7.5	2,569	98833679
NB 40-160/177	11	3,258	98488394
NB 40-200/172	5.5	2,392	98844301
NB 40-200/188	7.5	2,607	98844306
NB 40-200/206	11	3,347	98849201
NB 40-200/219	15	3,668	98915632
NB 40-250/211	11	3,423	98671393
NB 40-250/230	15	3,756	98577547
NB 40-250/245	18.5	3,855	98979905
NB 40-250/255	22	4,532	98605465
NB 40-250/260	30	5,857	98876844
NB 40-315/273	22	4,925	98976264
NB 40-315/298	30	6,081	98975674
NB 40-315/318	37	7,005	98975675
NB 40-315/336	45	9,263	98975676

ELECTRIC MOTOR

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

Motors 4kW and above are 380-415D V/3ph/50Hz

IP 55 Class F Insulation

All 2 poles motors up to and including 22kW are Grundfos IE3 efficiency standard.

All 2 poles motors above and including 30kW are Siemens IE3 efficiency standard.

PUMPS

Standard NB pump casing and impeller in cast iron.

Pumps with Custom Built options such as different material impellers, casings and non-standard seals can be configured and priced on request by your Sales Office.

Pump housings are flanged in accordance with EN1092-2 and EN733 design standards.

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
			A F2 A E BQQE
			AS F2 A E BQQE
NB 50-125/111	3	1,807	97933635
NB 50-125/121	4	1,985	97933643
NB 50-125/135	5.5	2,379	98627328
NB 50-125/144	7.5	2,581	98781395
NB 50-160/136	5.5	2,392	97992350
NB 50-160/150	7.5	2,613	97925281
NB 50-160/167	11	3,389	98778278
NB 50-160/177	15	3,668	98469280
NB 50-200/181	11	3,556	98639963
NB 50-200/198	15	3,824	98827298
NB 50-200/210	18.5	4,108	98354130
NB 50-200/219	22	4,610	98062906
NB 50-250/205	15	3,773	98979915
NB 50-250/222	18.5	4,048	98979916
NB 50-250/233	22	4,743	98622170
NB 50-250/254	30	5,711	98979797
NB 50-250/263	37	7,096	98978656
NB 50-315/267	30	6,310	98975677
NB 50-315/285	37	7,542	98801946
NB 50-315/300	45	8,340	98975678
NB 50-315/321	55	10,115	98975680
NB 65-125/120-110	4	2,054	98689762
NB 65-125/127	5.5	2,404	98106804
NB 65-125/137	7.5	2,670	97933644
NB 65-125/144	11	3,431	98139415
NB 65-160/143	7.5	2,765	97933647
NB 65-160/157	11	3,545	98291563
NB 65-160/173	15	3,771	98778279
NB 65-160/177	18.5	4,089	98449920
NB 65-200/162	11	3,540	98979917
NB 65-200/177	15	3,797	98979918
NB 65-200/190	18.5	4,254	98967170
NB 65-200/198	22	4,752	98092105
NB 65-200/217	30	5,733	98978642
NB 65-200/219	37	7,487	98883060
NB 65-250/223	30	5,819	98975692
NB 65-250/238	37	7,000	98761286
NB 65-250/251	45	7,815	98975693
NB 65-250/269	55	9,150	98975694
NB 65-250/270	75	11,737	98564391
NB 65-315/272	55	9,259	98975695
NB 65-315/295	75	11,295	98975696
NB 65-315/308	90	13,529	98546406
NB 65-315/320	110	16,954	98975697
NB 80-160/147-127	11	3,691	98447791
NB 80-160/151	15	3,946	98354769
NB 80-160/161	18.5	4,220	98674339
NB 80-160/167	22	4,861	98423647
NB 80-160/177	30	6,091	98674340

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.



CATEGORY 2 - NB SINGLE STAGE END SUCTION BLOC PUMPS - EN733

COMPLETE WITH 2 POLES / 2900 RPM IE3 MOTORS

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			A F2 A E BQQE AS F2 A E BQQE
NB 80-200/171	22	4,699	98599191
NB 80-200/188	30	6,289	98827295
NB 80-200/200	37	7,040	98674338
NB 80-200/211	45	8,430	98834914
NB 80-200/222	55	9,600	98768407
NB 80-250/220	45	8,465	98720532
NB 80-250/234	55	9,227	98975698
NB 80-250/257	75	11,152	98653174
NB 80-250/270	90	12,330	98975699
NB 80-315/278	90	12,584	98975700
NB 80-315/295	110	17,301	98975721
NB 80-315/310	132	18,962	98975722
NB 80-315/328	160	21,517	98975723
NB 100-160/160-154	18.5	4,012	98976327
NB 100-160/167	22	4,635	98976326
NB 100-160/176	30	5,532	98975993
NB 100-200/170	30	5,743	98975724
NB 100-200/181	37	6,601	98647850
NB 100-200/192	45	8,122	98828352
NB 100-200/203	55	8,772	98975725
NB 100-200/219	75	10,302	98975726
NB 100-250/205	55	8,955	98975867
NB 100-250/229	75	10,664	98975866
NB 100-250/242	90	11,985	98975865
NB 100-250/258	110	16,827	98975864
NB 100-250/274	132	18,741	98975863
NB 100-315/269	110	17,301	98975727
NB 100-315/284	132	19,213	98975728
NB 100-315/301	160	22,021	98975729
NB 100-315/322	200	26,078	98975730

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

ELECTRIC MOTOR

Motors 4kW and above are 380-415V 3ph/50Hz
IP 55 Class F Insulation

All 2 poles motors up to and including 22kW are Grundfos IE3 efficiency standard.
All 2 poles motors above and including 30kW are Siemens IE3 efficiency standard.

PUMPS

Standard NB pump casing and impeller in cast iron.

Pumps with Custom Built options such as different material impellers, casings and non-standard seals can be configured and priced on request by your Sales Office.

Pump housings are flanged in accordance with EN1092-2 and EN733 design standards.

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.



Model	P2 kW	£	Product Code
			A F2 A E BQQE AS F2 A E BQQE
NB 125-200/176-154	45	7,880	98975940
NB 125-200/196-166	55	9,160	98975939
NB 125-200/205	75	11,378	98860774
NB 125-200/219	90	12,186	98975938
NB 125-200/224	110	17,062	98975937
NB 125-250/222	90	12,314	98975741
NB 125-250/236	110	17,106	98975742
NB 125-250/249	132	19,020	98975743
NB 125-250/263	160	21,826	98975744
NB 125-250/269	200	25,883	98975745
NB 125-315/262	132	19,776	98975746
NB 125-315/277	160	23,091	98975747
NB 125-315/297	200	28,480	98610634
			A F1 A E BQQE AS F1 A E BQQE
NB 150-200/216-176	75	11,872	98649824
NB 150-200/218-202	90	13,223	98974648
NB 150-200/224	110	17,977	98975748
NB 150-250/226-220	132	19,842	98975960
NB 150-250/235	160	22,695	98975959
NB 150-250/250	200	26,783	98975958
NB 150-315.2/244	160	25,499	99001631
NB 150-315.2/262	200	28,416	99001635



CATEGORY 2 - NB SINGLE STAGE END SUCTION BLOC PUMPS - EN733

COMPLETE WITH 4 POLES / 1450 RPM IE3 MOTORS

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			A F2 A E BQQE
			AS F2 A E BQQE
NB 32-125.1/121	0.25	970	98154140
NB 32-125.1/139	0.25	970	97656970
NB 32-125.1/140	0.37	981	98930646
NB 32-125/115	0.25	909	98987645
NB 32-125/130	0.25	953	97564281
NB 32-125/142	0.37	981	96894223
NB 32-160.1/137	0.25	961	98987644
NB 32-160.1/155	0.25	961	98971400
NB 32-160.1/172	0.37	987	98987628
NB 32-160.1/177	0.55	1,114	97937749
NB 32-160/138	0.25	961	98987646
NB 32-160/154	0.37	985	98987647
NB 32-160/172	0.55	1,107	96550472
NB 32-160/173	0.75	1,194	98978998
NB 32-200.1/175	0.37	1,114	98672565
NB 32-200.1/196	0.55	1,183	96752523
NB 32-200.1/207	0.75	1,339	98117266
NB 32-200/184	0.55	1,166	98593070
NB 32-200/197	0.75	1,316	98128726
NB 32-200/216	1.1	1,369	98269499
NB 32-200/219	1.5	1,419	98978999
NB 32-250/206	0.75	1,409	98979000
NB 32-250/236	1.1	1,548	98172734
NB 32-250/260	1.5	1,660	98539538
NB 32-250/262	2.2	1,801	98096929
NB 40-125/116	0.25	1,130	96787441
NB 40-125/130	0.37	1,145	96631117
NB 40-125/142	0.55	1,221	96546730
NB 40-160/134	0.37	1,061	98987648
NB 40-160/151	0.55	1,234	96538738
NB 40-160/162	0.75	1,367	98283855
NB 40-160/177	1.1	1,453	98453340
NB 40-200/177	0.75	1,270	98979001
NB 40-200/198	1.1	1,481	98161765
NB 40-200/217	1.5	1,516	98269479
NB 40-200/219	2.2	1,677	98269492
NB 40-250/219	1.5	1,632	98861694
NB 40-250/245	2.2	1,810	98045376
NB 40-250/260	3	1,898	98533156
NB 40-315/283	3	2,247	98979003
NB 40-315/305	4	2,581	98503608
NB 40-315/334	5.5	2,948	98544371
NB 40-315/344	7.5	2,923	98975417
NB 50-125/113	0.37	1,114	98947926
NB 50-125/129	0.55	1,240	98808056
NB 50-125/138	0.75	1,371	98793600
NB 50-125/144	1.1	1,428	98667812
NB 50-160/131	0.55	1,272	98667846
NB 50-160/139	0.75	1,413	98965240
NB 50-160/158	1.1	1,453	98048215
NB 50-160/175	1.5	1,489	98366433
NB 50-160/177	2.2	1,597	98158393
NB 50-200/171	1.1	1,506	98128725
NB 50-200/188	1.5	1,565	98734545
NB 50-200/210	2.2	1,643	98149348
NB 50-200/219	3	1,750	98086583
NB 50-250/221	2.2	1,755	98498186
NB 50-250/241	3	1,856	98439130
NB 50-250/263	4	2,060	97989054

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			A F2 A E BQQE
			AS F2 A E BQQE
NB 50-315/277	4	2,602	98911732
NB 50-315/303	5.5	3,056	98594413
NB 50-315/331	7.5	3,291	98975418
NB 50-315/344	11	3,964	98976265
NB 65-125/122	0.55	1,246	97931701
NB 65-125/130	0.75	1,400	98727894
NB 65-125/144	1.1	1,476	98488793
NB 65-160/135	0.75	1,321	98979004
NB 65-160/149	1.1	1,449	98071620
NB 65-160/165	1.5	1,481	98073688
NB 65-160/177	2.2	1,609	98178373
NB 65-200/170	1.5	1,750	98875534
NB 65-200/189	2.2	1,835	98106878
NB 65-200/205	3	1,947	97989353
NB 65-200/219	4	2,202	98353645
NB 65-250/215	3	2,173	98979005
NB 65-250/232	4	2,522	98533869
NB 65-250/254	5.5	2,967	98150990
NB 65-250/270	7.5	3,341	98439129
NB 65-315/261	5.5	3,147	98700494
NB 65-315/282	7.5	3,452	98257226
NB 65-315/314	11	4,197	98976219
NB 65-315/320	15	4,783	98666284
NB 80-160/146	1.5	1,691	98740618
NB 80-160/161	2.2	1,822	97992026
NB 80-160/175	3	1,915	98127507
NB 80-160/177	4	2,126	97907876
NB 80-200/164	2.2	2,179	98844518
NB 80-200/179	3	2,280	98673212
NB 80-200/196	4	2,499	98042383
NB 80-200/214	5.5	2,868	98175428
NB 80-200/222	7.5	3,235	98269474
NB 80-250/225	5.5	3,094	98154251
NB 80-250/247	7.5	3,446	98052703
NB 80-250/270	11	4,323	98728855
NB 80-315/280	11	4,386	98976266
NB 80-315/305	15	4,692	98976220
NB 80-315/320	18.5	5,475	98824891
NB 80-315/334	22	5,844	98868112
NB 80-400/347	18.5	6,831	98975773
NB 80-400/365	22	7,554	98914617
NB 80-400/397	30	8,449	98969291
NB 80-400/419	37	10,051	98619938
NB 80-400/438	45	10,318	98975774
NB 100-160/160-140	2.2	2,039	98846058
NB 100-160/169	3	2,139	98846059
NB 100-160/176	4	2,358	98846055
NB 100-200/178	4	2,602	98321723
NB 100-200/195	5.5	2,955	98149345
NB 100-200/211	7.5	3,343	98180947
NB 100-200/219	11	3,948	98477982
NB 100-250/215	7.5	3,870	98846061
NB 100-250/245	11	4,587	98860204
NB 100-250/274	15	4,897	98856093
NB 100-315/279	15	5,137	98567533
NB 100-315/295	18.5	5,639	98876482
NB 100-315/312	22	5,745	98975636
NB 100-315/334	30	6,905	98975777



CATEGORY 2 - NB SINGLE STAGE END SUCTION BLOC PUMPS - EN733

COMPLETE WITH 4 POLES / 1450 RPM IE3 MOTORS

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			A F2 A E BQQE
			AS F2 A E BQQE
NB 100-400/334	22	7,176	98975924
NB 100-400/360	30	8,348	98975923
NB 100-400/375	37	9,478	98975922
NB 100-400/395	45	10,417	98975921
NB 100-400/415	55	11,773	98975910
NB 125-200/176-154	5.5	3,524	98843507
NB 125-200/196-180	7.5	3,830	98843510
NB 125-200/219	11	4,354	98976322
NB 125-200/226	15	4,870	98855932
NB 125-250/220	11	4,539	98976267
NB 125-250/236	15	5,059	98115564
NB 125-250/249	18.5	5,597	98600057
NB 125-250/262	22	5,966	98672953
NB 125-250/269	30	7,287	98737312
NB 125-315/275	18.5	6,875	98835476
NB 125-315/290	22	7,238	98835478
NB 125-315/317	30	8,573	98857197
NB 125-315/336	37	8,796	98975779
NB 125-315/338	45	9,912	98975780
NB 125-400/345	37	9,102	98975791
NB 125-400/368	45	10,218	98975792
NB 125-400/392	55	11,731	98975793
NB 125-400/433	75	13,345	98975794
NB 125-400/438	90	14,423	98975795
NB 125-500/406	55	13,201	98975796
NB 125-500/447	75	14,730	98975797
NB 125-500/473	90	16,585	98939118
NB 125-500/500	110	20,801	98975798
NB 125-500/526	132	21,523	98975799
NB 125-500/548	160	23,063	98975800
			A F1 A E BQQE
			AS F1 A E BQQE
NB 150-200/210-158	7.5	4,344	98249368
NB 150-200/218-208	11	5,253	98769189
NB 150-200/224	15	5,546	98455883
NB 150-250/226-214	15	5,946	98976325
NB 150-250/230	18.5	6,505	98975972
NB 150-250/242	22.0	6,857	98914616
NB 150-250/262	30.0	8,151	98807421
NB 150-250/275	37.0	9,194	98975971
NB 150-250/282	45.0	10,071	98835475
NB 150-315.2/250	22.0	7,042	99001639
NB 150-315.2/275	30.0	8,290	99001640
NB 150-315.2/294	37.0	9,275	99001641
NB 150-315.2/314	45.0	10,051	99001643
NB 150-315.2/334	55.0	11,635	99001644
NB 150-315.2/342	75.0	13,116	99001662

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			A F1 A E BQQE
			AS F1 A E BQQE
NB 150-315/275	37	9,605	98975822
NB 150-315/291	45	10,417	98854510
NB 150-315/310	55	12,025	98791582
NB 150-315/336	75	13,554	98607735
NB 150-315/338	90	15,138	98974752
NB 150-400/343	55	12,606	98866025
NB 150-400/375	75	14,545	98975823
NB 150-400/394	90	16,192	98975824
NB 150-400/412	110	21,380	98975825
NB 150-400/431	132	22,128	98975826
NB 150-400/438	160	23,728	98975827
NB 150-500/459	132	23,728	98975828
NB 150-500/489	160	25,328	98975829
NB 150-500/521	200	28,339	98975830
NB 200-400/280	37	14,582	98976107
NB 200-400/296	45	15,729	98976108
NB 200-400/312	55	16,753	98976109
NB 200-400/344	75	17,705	98976110
NB 200-400/364	90	18,713	98976111
NB 200-400/392	110	20,532	98976112
NB 200-400/404	132	21,895	98976113
NB 200-450/367	75	17,935	98976151
NB 200-450/391	90	18,942	98976152
NB 200-450/415	110	23,280	98976153
NB 200-450/435	132	24,411	98976154
NB 200-450/455	160	26,291	98976155
NB 250-350/266	37	15,498	98976181
NB 250-350/294	45	16,873	98788469
NB 250-350/318	55	18,427	98857218
NB 250-350/362	75	21,370	98857214
NB 250-350/370	90	22,833	98976182
NB 250-400/281	45	17,332	98976204
NB 250-400/301	55	18,885	98590841
NB 250-400/329	75	21,826	98976205
NB 250-400/349	90	23,977	98976206
NB 250-400/365	110	25,623	98976207
NB 250-400/385	132	26,755	98976208
NB 250-400/405	160	28,405	98938357
NB 250-450/325	75	22,295	98976237
NB 250-450/341	90	23,987	98976238
NB 250-450/361	110	25,633	98976239
NB 250-450/381	132	26,994	98976240
NB 250-450/401	160	28,872	98976241
NB 250-450/445	200	31,704	98976242
NB 250-500/417	160	30,932	98976259
NB 250-500/445	200	33,994	98976260

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

ELECTRIC MOTOR

Motors 4kW and above are 380-415V 3ph/50Hz
IP 55 Class F Insulation

All 4 poles motors up to and including 15kW are Grundfos IE3 efficiency standard.
All 4 poles motors above and including 18.5kW are Siemens IE3 efficiency standard.

PUMPS

Standard NB pump casing and impeller in cast iron.

Pumps with Custom Built options such as different material impellers, casings and non-standard seals can be configured and priced on request by your Sales Office.
Pump housings are flanged in accordance with EN1092-2 and EN733 design standards.

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.



CATEGORY 2 - NB SINGLE STAGE END SUCTION BLOC PUMPS - EN733

COMPLETE WITH 6 POLES / 960 RPM IE3 MOTORS

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
			A F2 A E BQQE
			AS F2 A E BQQE
NB 100-160/160-140	0.55	1,646	98975712
NB 100-160/169	0.75	1,869	98975711
NB 100-160/176	1.1	1,944	98975710
NB 100-200/182	1.1	2,233	98871702
NB 100-200/193	1.5	2,203	98974772
NB 100-200/214	2.2	2,298	98974571
NB 100-200/219	3	2,643	98974773
NB 100-250/216	2.2	2,352	98975595
NB 100-250/236	3	2,694	98975594
NB 100-250/260	4	2,864	98975593
NB 100-250/274	5.5	3,341	98975592
NB 100-315/272	4	3,031	98974774
NB 100-315/301	5.5	3,365	98974776
NB 100-315/326	7.5	3,900	98975638
NB 100-315/334	11	4,764	98975851
NB 100-400/340	7.5	5,476	98975927
NB 100-400/380	11	6,298	98975926
NB 100-400/415	15	6,947	98975925
NB 125-200/176-150	1.5	2,563	98975648
NB 125-200/196-182	2.2	2,625	98975647
NB 125-200/215	3	2,919	98975646
NB 125-200/226	4	3,005	98975645
NB 125-250/216	3	2,971	98974778
NB 125-250/232	4	3,082	98974779
NB 125-250/253	5.5	3,365	98974780
NB 125-250/269	7.5	3,878	98975653
NB 125-315/275	5.5	4,434	98974791
NB 125-315/297	7.5	4,995	98975852
NB 125-315/335	11	5,793	98975853
NB 125-315/338	15	6,443	98975854
NB 125-400/351	11	6,330	98975855
NB 125-400/384	15	7,011	98975856
NB 125-400/410	18.5	7,824	98975857
NB 125-400/434	22	8,515	98975858
NB 125-400/438	30	9,211	98975859
NB 125-500/421	18.5	9,102	98975860
NB 125-500/445	22	9,795	98975871
NB 125-500/493	30	10,598	98975872
NB 125-500/524	37	11,434	98975873
NB 125-500/546	45	12,620	98975874
NB 125-500/548	55	13,675	98975875
			A F1 A E BQQE
			AS F1 A E BQQE
NB 150-200/210-168	2.2	3,299	98974567
NB 150-200/218-200	3	3,632	98974593
NB 150-200/224	4	3,809	98557012
NB 150-250/235	5.5	4,561	98975688
NB 150-250/252	7.5	5,230	98975975
NB 150-250/282	11	6,113	98975974
NB 150-315.2/259	7.5	5,460	99001645
NB 150-315.2/293	11	6,280	99001646
NB 150-315.2/328	15	6,949	99001647
NB 150-315.2/342	18.5	7,789	99001675
NB 150-315/280	11	6,525	98975876
NB 150-315/305	15	7,176	98975877
NB 150-315/322	19	7,996	98590859
NB 150-315/337	22	8,561	98975878
NB 150-315/338	30	9,311	98975879

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
			A F1 A E BQQE
			AS F1 A E BQQE
NB 150-400/357	18.5	8,523	98975880
NB 150-400/375	22	9,102	98975881
NB 150-400/408	30	9,876	98975882
NB 150-400/430	37	10,917	98975883
NB 150-400/438	45	12,364	98975884
NB 150-500/457	37	12,708	98975885
NB 150-500/483	45	14,071	98975886
NB 150-500/513	55	15,110	98975887
NB 150-500/548	75	16,395	98975888
NB 200-400/308	15	10,774	98976114
NB 200-400/328	18.5	11,381	98976115
NB 200-400/348	22	12,612	98976116
NB 200-400/384	30	13,824	98976117
NB 200-400/404	37	15,758	98976118
NB 200-450/355	18.5	11,381	98976156
NB 200-450/371	22	13,068	98976157
NB 200-450/407	30	14,511	98976158
NB 200-450/431	37	15,987	98976159
NB 200-450/451	45	16,976	98976160
NB 250-350/277	11	11,132	98976183
NB 250-350/306	15	12,467	98976184
NB 250-350/330	18.5	12,839	98871350
NB 250-350/366	22	14,298	98976185
NB 250-400/289	15	12,517	98976209
NB 250-400/313	18.5	13,247	98976210
NB 250-400/329	22	14,527	98976221
NB 250-400/361	30	16,343	98976222
NB 250-400/381	37	17,661	98976223
NB 250-400/401	45	18,807	98976224
NB 250-450/313	18.5	13,766	98976243
NB 250-450/325	22	15,223	98976244
NB 250-450/357	30	17,040	98976245
NB 250-450/377	37	18,359	98976246
NB 250-450/397	45	18,817	98976247
NB 250-450/433	55	19,573	98976248
NB 250-500/409	45	20,419	98976271
NB 250-500/437	55	21,404	98976272
NB 250-500/485	75	25,575	98976273
NB 250-500/525	90	27,398	98976275

ELECTRIC MOTOR

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

Motors 4kW and above are 380-420D V/3ph/50Hz

IP 55 Class F Insulation

All motors up to and including 0.55kW have no efficiency standard

All 6 poles motors above and including 0.75kW are Siemens IE3 efficiency standard.

PUMPS

Standard NB pump casing and impeller in cast iron.

Pumps with Custom Built options such as different material impellers, casings and non-standard seals can be configured and priced on request by your Sales Office.

Pump housings are flanged in accordance with EN1092-2 and EN733 design standards.

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.



CATEGORY 2 - NBE VARIABLE SPEED END-SUCTION BLOC PUMPS - EN733

COMPLETE WITH 2900 RPM (2 POLES) 3 PHASE VARIABLE SPEED MOTOR

Model	P2 kW	Differential pressure transducer range	£	Product code
380-480/500V 3ph 50/60Hz 2900rpm				A F2 A E BQQE
				AS F2 A E BQQE
NBE 32-125.1/110	1.1	0 - 2.5 bar	2,376	98983996
NBE 32-125.1/121	1.5	0 - 2.5 bar	2,499	98632194
NBE 32-125.1/140	2.2	0 - 4 bar	2,774	98629487
NBE 32-125/106	1.1	0 - 1.6 bar	2,386	98946031
NBE 32-125/115	1.5	0 - 2.5 bar	2,511	98650464
NBE 32-125/130	2.2	0 - 2.5 bar	2,780	98564298
NBE 32-125/142	3	0 - 4 bar	3,267	99105451
NBE 32-160.1/139	1.5	0 - 2.5 bar	2,565	99025305
NBE 32-160.1/155	2.2	0 - 4 bar	2,847	99104684
NBE 32-160.1/169	3	0 - 4 bar	3,312	99105452
NBE 32-160.1/177	4	0 - 6 bar	3,773	99101960
NBE 32-160/139	2.2	0 - 4 bar	2,866	99104685
NBE 32-160/151	3	0 - 4 bar	3,325	99105453
NBE 32-160/163	4	0 - 4 bar	3,753	99101765
NBE 32-160/177	5.5	0 - 6 bar	4,390	99106342
NBE 32-200.1/172	3	0 - 4 bar	3,423	99105454
NBE 32-200.1/188	4	0 - 6 bar	3,863	99100084
NBE 32-200.1/205	5.5	0 - 6 bar	4,423	99100055
NBE 32-200.1/207	7.5	0 - 6 bar	5,090	99101961
NBE 32-200/176	4	0 - 4 bar	3,876	99101962
NBE 32-200/190	5.5	0 - 6 bar	4,437	99100058
NBE 32-200/206	7.5	0 - 6 bar	5,080	99100050
NBE 32-200/219	11	0 - 10 bar	6,584	99101877
NBE 32-250/199	5.5	0 - 6 bar	4,625	99101963
NBE 32-250/219	7.5	0 - 10 bar	5,275	99101876
NBE 32-250/244	11	0 - 10 bar	6,758	99101964
NBE 32-250/262	15	0 - 10 bar	7,694	98976060
NBE 40-125/105	1.5	0 - 1.6 bar	2,612	98602651
NBE 40-125/116	2.2	0 - 2.5 bar	2,884	99014205
NBE 40-125/127	3	0 - 2.5 bar	3,386	99105455
NBE 40-125/139	4	0 - 4 bar	3,824	99100080
NBE 40-125/142	5.5	0 - 4 bar	4,351	99101965
NBE 40-160/144	4	0 - 4 bar	3,800	99101966
NBE 40-160/158	5.5	0 - 4 bar	4,453	99100076
NBE 40-160/172	7.5	0 - 6 bar	5,125	99100093
NBE 40-160/177	11	0 - 6 bar	6,573	99101896
NBE 40-200/172	5.5	0 - 4 bar	4,492	99101967
NBE 40-200/188	7.5	0 - 6 bar	5,162	99101879
NBE 40-200/206	11	0 - 6 bar	6,659	99106399
NBE 40-200/219	15	0 - 10 bar	7,561	98979881
NBE 40-250/211	11	0 - 10 bar	6,733	99101998
NBE 40-250/230	15	0 - 10 bar	7,647	98979852
NBE 40-250/245	18.5	0 - 10 bar	8,714	98979854
NBE 40-250/255	22	0 - 10 bar	9,810	98605464
NBE 40-315/273	22	0 - 10 bar	10,426	98976083
NBE 50-125/111	3	0 - 1.6 bar	3,439	99105456
NBE 50-125/121	4	0 - 2.5 bar	3,845	99101769
NBE 50-125/135	5.5	0 - 4 bar	4,480	99102007
NBE 50-125/144	7.5	0 - 4 bar	5,137	99100090
NBE 50-160/136	5.5	0 - 4 bar	4,492	99100073
NBE 50-160/150	7.5	0 - 4 bar	5,168	99100047
NBE 50-160/167	11	0 - 4 bar	6,700	99101898
NBE 50-160/177	15	0 - 6 bar	7,561	98468706
NBE 50-200/181	11	0 - 6 bar	6,862	99101748
NBE 50-200/198	15	0 - 6 bar	7,712	98979862
NBE 50-200/210	18.5	0 - 10 bar	8,775	98979864
NBE 50-200/219	22	0 - 10 bar	9,886	98564295
NBE 50-250/205	15	0 - 6 bar	7,843	98979884
NBE 50-250/222	18.5	0 - 10 bar	8,911	98979887
NBE 50-250/233	22	0 - 10 bar	10,015	98978489

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

Motor specification, reference to accessories and operational details are on page 10.



CATEGORY 2 - NBE VARIABLE SPEED END-SUCTION BLOC PUMPS - EN733

COMPLETE WITH 2900 RPM (2 POLES) 3 PHASE VARIABLE SPEED MOTOR

Model	P2 kW	Differential pressure transducer range	£	Product code
380-480/500V 3ph 50/60Hz 2900rpm				A F2 A E BQQE AS F2 A E BQQE
NBE 65-125/120-110	4	0 - 1.6 bar	3,912	99101764
NBE 65-125/127	5.5	0 - 2.5 bar	4,504	99101749
NBE 65-125/137	7.5	0 - 2.5 bar	5,223	99101897
NBE 65-125/144	11	0 - 4 bar	6,741	99101763
NBE 65-160/143	7.5	0 - 4 bar	5,316	99101878
NBE 65-160/157	11	0 - 4 bar	6,852	99100102
NBE 65-160/173	15	0 - 6 bar	7,661	98844654
NBE 65-160/177	18.5	0 - 6 bar	8,757	98979888
NBE 65-200/162	11	0 - 4 bar	7,016	99101899
NBE 65-200/177	15	0 - 6 bar	7,868	98979890
NBE 65-200/190	18.5	0 - 6 bar	8,917	98645657
NBE 65-200/198	22	0 - 6 bar	10,023	97907877
NBE 80-160/147-127	11	0 - 2.5 bar	6,993	99106396
NBE 80-160/151	15	0 - 4 bar	7,831	98680720
NBE 80-160/161	18.5	0 - 4 bar	8,884	98979869
NBE 80-160/167	22	0 - 4 bar	10,129	96645314
NBE 80-200/171	22	0 - 6 bar	9,972	98975790
NBE 100-160/160-154	18.5	0 - 4 bar	8,874	98976198
NBE 100-160/167	22	0 - 4 bar	10,131	98976197

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

ELECTRIC MOTOR

380-500V 3ph 50/60Hz up to 11kW with IE5 efficiency
 380-480V 3ph 50/60Hz above 15kW with IE2/IE3 efficiency
 IP 55 Class F Insulation

Pumps with Custom Built options such as different material impellers and non standard seals can be configured and priced on request by your Sales Office.
 Pump housings are flanged in accordance with EN1092-2 and EN733 standards.

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.

NBE OPERATION

These models have been designed for operation in either open or closed loop control arrangements. The Default control mode is "Uncontrolled Curve / Constant curve".

NBE pumps do not include transducers for closed loop control.
 Transducers can be supplied as separate items for pipework installations.
 Single point pressure transducers are listed with their ranges on page 22.

The transducer ranges listed for the NBE pumps only cover the max closed valve pressure with no inlet head. Please check the inlet head to check if the transducer size needs to be increased.

There is no sensor connection point on the NBE pump and connections need to be made in the pipework.

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details. This device can be used to commission and monitor multiple pumps on multiple sites.



CATEGORY 2 - NBE VARIABLE SPEED END-SUCTION BLOC PUMPS - EN733

COMPLETE WITH 1450 RPM (4 POLES) 3 PHASE VARIABLE SPEED MOTOR

Model	P2 kW	Differential pressure transducer range	£	Product code
380-480/500V 3ph 50/60Hz 1450rpm				A F2 A E BQQE
				AS F2 A E BQQE
NBE 32-160.1/177	0.55	0 - 1.6 bar	2,286	98890805
NBE 32-160/172	0.55	0 - 1.6 bar	2,280	99104648
NBE 32-160/173	0.75	0 - 1.6 bar	2,345	99104650
NBE 32-200.1/196	0.55	0 - 1.6 bar	2,354	98609256
NBE 32-200.1/207	0.75	0 - 1.6 bar	2,429	98808680
NBE 32-200/184	0.55	0 - 1.6 bar	2,337	99104651
NBE 32-200/197	0.75	0 - 1.6 bar	2,407	99104652
NBE 32-200/216	1.1	0 - 2.5 bar	2,481	99104673
NBE 32-200/219	1.5	0 - 2.5 bar	2,661	99105406
NBE 32-250/206	0.75	0 - 1.6 bar	2,565	99104674
NBE 32-250/236	1.1	0 - 2.5 bar	2,655	98920646
NBE 32-250/260	1.5	0 - 2.5 bar	2,827	99105408
NBE 32-250/262	2.2	0 - 2.5 bar	3,196	99105409
NBE 40-125/142	0.55	0 - 1.0 bar	2,391	98726811
NBE 40-160/151	0.55	0 - 1.0 bar	2,403	99104675
NBE 40-160/162	0.75	0 - 1.0 bar	2,456	99104676
NBE 40-160/177	1.1	0 - 1.6 bar	2,563	98890794
NBE 40-200/177	0.75	0 - 1.6 bar	2,423	99104677
NBE 40-200/198	1.1	0 - 1.6 bar	2,589	99104678
NBE 40-200/217	1.5	0 - 1.6 bar	2,688	99105410
NBE 40-200/219	2.2	0 - 2.5 bar	3,075	99105411
NBE 40-250/219	1.5	0 - 2.5 bar	2,800	99105412
NBE 40-250/245	2.2	0 - 2.5 bar	3,204	99105413
NBE 40-250/260	3	0 - 2.5 bar	3,527	99105414
NBE 40-315/283	3	0 - 4 bar	3,974	99105415
NBE 40-315/305	4	0 - 4 bar	4,425	99101881
NBE 40-315/334	5.5	0 - 4 bar	5,170	99101968
NBE 40-315/344	7.5	0 - 6 bar	5,707	99101969
NBE 50-125/129	0.55	0 - 0.6 bar	2,409	99104679
NBE 50-125/138	0.75	0 - 1.0 bar	2,460	98591318
NBE 50-125/144	1.1	0 - 1.0 bar	2,538	99031018
NBE 50-160/131	0.55	0 - 0.6 bar	2,440	98689527
NBE 50-160/139	0.75	0 - 1.0 bar	2,501	99104680
NBE 50-160/158	1.1	0 - 1.0 bar	2,563	98773132
NBE 50-160/175	1.5	0 - 1.6 bar	2,661	99105416
NBE 50-160/177	2.2	0 - 1.6 bar	2,997	99105417
NBE 50-200/171	1.1	0 - 1.6 bar	2,614	99104681
NBE 50-200/188	1.5	0 - 1.6 bar	2,735	99105418
NBE 50-200/210	2.2	0 - 1.6 bar	3,042	99105419
NBE 50-200/219	3	0 - 2.5 bar	3,384	99105420
NBE 50-250/221	2.2	0 - 2.5 bar	3,150	99105421
NBE 50-250/241	3	0 - 2.5 bar	3,486	99105422
NBE 50-250/263	4	0 - 2.5 bar	3,919	99101875
NBE 50-315/277	4	0 - 4 bar	4,445	99101970
NBE 50-315/303	5.5	0 - 4 bar	5,275	99101971
NBE 50-315/331	7.5	0 - 6 bar	6,082	99101873
NBE 50-315/344	11	0 - 6 bar	7,544	98976085
NBE 65-125/122	0.55	0 - 0.6 bar	2,415	98941572
NBE 65-125/130	0.75	0 - 0.6 bar	2,489	99104682
NBE 65-125/144	1.1	0 - 1.0 bar	2,585	98956877
NBE 65-160/135	0.75	0 - 1.0 bar	2,474	98920991
NBE 65-160/149	1.1	0 - 1.0 bar	2,558	99104683
NBE 65-160/165	1.5	0 - 1.0 bar	2,653	99105433
NBE 65-160/177	2.2	0 - 1.6 bar	3,009	99105434
NBE 65-200/170	1.5	0 - 1.6 bar	2,915	99105435
NBE 65-200/189	2.2	0 - 1.6 bar	3,228	99166379
NBE 65-200/205	3	0 - 1.6 bar	3,574	99105437
NBE 65-200/219	4	0 - 2.5 bar	4,056	99101750
NBE 65-250/215	3	0 - 2.5 bar	3,898	99105438
NBE 65-250/232	4	0 - 2.5 bar	4,367	99101772
NBE 65-250/254	5.5	0 - 2.5 bar	5,189	99101619
NBE 65-250/270	7.5	0 - 4 bar	5,973	99101900
NBE 65-315/261	5.5	0 - 2.5 bar	5,363	99101972
NBE 65-315/282	7.5	0 - 4 bar	6,082	99101770
NBE 65-315/314	11	0 - 4 bar	7,782	98666285
NBE 65-315/320	15	0 - 4 bar	8,737	98976086

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks



Motor specification, reference to accessories and operational details are on page 12.

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Page 11

CATEGORY 2 - NBE VARIABLE SPEED END-SUCTION BLOC PUMPS - EN733

COMPLETE WITH 1450 RPM (4 POLES) 3 PHASE VARIABLE SPEED MOTOR

Model	P2 kW	Differential pressure transducer range	£	Product code
380-480/500V 3ph 50/60Hz 1450rpm				A F2 A E BQQE
				AS F2 A E BQQE
NBE 80-160/146	1.5	0 - 1.0 bar	2,858	99105439
NBE 80-160/161	2.2	0 - 1.0 bar	3,216	99105440
NBE 80-160/175	3	0 - 1.6 bar	3,544	99105441
NBE 80-160/177	4	0 - 1.6 bar	3,982	99101751
NBE 80-200/164	2.2	0 - 1.0 bar	3,562	99105442
NBE 80-200/179	3	0 - 1.6 bar	3,898	99105443
NBE 80-200/196	4	0 - 1.6 bar	4,345	99101959
NBE 80-200/214	5.5	0 - 2.5 bar	5,092	99101768
NBE 80-200/222	7.5	0 - 2.5 bar	5,871	99100109
NBE 80-250/225	5.5	0 - 2.5 bar	5,312	99101771
NBE 80-250/247	7.5	0 - 2.5 bar	6,076	99100061
NBE 80-250/270	11	0 - 4 bar	7,704	98692711
NBE 80-315/280	11	0 - 4 bar	7,931	98976087
NBE 80-315/305	15	0 - 4 bar	8,872	98976055
NBE 80-315/320	18.5	0 - 4 bar	10,023	99150846
NBE 80-400/347	18.5	0 - 6 bar	11,666	99105337
NBE 100-160/160-140	2.2	0 - 1.0 bar	3,427	99105444
NBE 100-160/169	3	0 - 1.0 bar	3,761	99105445
NBE 100-160/176	4	0 - 1.0 bar	4,207	99101913
NBE 100-200/178	4	0 - 1.6 bar	4,445	99105447
NBE 100-200/195	5.5	0 - 1.6 bar	5,176	99105448
NBE 100-200/211	7.5	0 - 2.5 bar	5,975	99105449
NBE 100-200/219	11	0 - 2.5 bar	7,339	98976088
NBE 100-250/215	7.5	0 - 2.5 bar	6,487	99101910
NBE 100-250/245	11	0 - 2.5 bar	7,960	98976180
NBE 100-250/274	15	0 - 4 bar	8,847	98976179
NBE 100-315/279	15	0 - 4 bar	9,081	98976089
NBE 100-315/295	18.5	0 - 4 bar	10,183	99105338
NBE 125-200/176-154	5.5	0 - 1.0 bar	5,729	99101912
NBE 125-200/196-180	7.5	0 - 1.6 bar	6,448	99101911
NBE 125-200/219	11	0 - 2.5 bar	7,899	98976193
NBE 125-200/226	15	0 - 2.5 bar	8,820	98976192
NBE 125-250/220	11	0 - 2.5 bar	8,087	98976090
NBE 125-250/236	15	0 - 2.5 bar	9,005	98349835
NBE 125-250/249	18.5	0 - 2.5 bar	10,142	98349876
NBE 125-315/275	18.5	0 - 4 bar	11,383	99042637
				A F1 A E BQQE
				AS F1 A E BQQE
NBE 150-200/210-158	7.5	0 - 1.0 bar	7,155	99157328
NBE 150-200/218-208	11	0 - 1.6 bar	8,847	98976056
NBE 150-200/224	15	0 - 1.6 bar	9,742	98762436
NBE 150-250/226-214	15	0 - 1.6 bar	10,150	98976196
NBE 150-250/230	18.5	0 - 2.5 bar	11,334	99105340

ELECTRIC MOTOR

380-500V 3ph 50/60Hz up to 7.5kW with IE5 efficiency

380-480V 3ph 50/60Hz above 11kW

IP 55 Class F Insulation

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

Pumps with Custom Built options such as different material impellers and non standard seals can be configured and priced on request by your Sales Office.

Pump housings are flanged in accordance with EN1092-2 and EN733 standards.

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.

NBE OPERATION

These models have been designed for operation in either open or closed loop control arrangements.

The Default control mode is "Uncontrolled Curve / Constant curve".

NBE pumps do not include transducers for closed loop control.

Transducers can be supplied as separate items for pipework installations.

Single point pressure transducers are listed with their ranges on page 22.

The transducer ranges listed for the NBE pumps only cover the max closed valve pressure with no inlet head.

Please check the inlet head to check if the transducer size needs to be increased.

There is no sensor connection point on the NBE pump and connections need to be made in the pipework.

IMPORTANT

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

See page 22 for details. This device can be used to commission and monitor multiple pumps on multiple sites.



CATEGORY 2 - NK SINGLE STAGE END SUCTION LONG-COUPLED PUMPS - EN733

COMPLETE WITH 2 POLES / 2900 RPM IE3 MOTORS

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			A2 F A E BQQE
NK 32-125.1/100	0.75	2,455	98973375
NK 32-125.1/110	1.1	2,489	98973377
NK 32-125.1/121	1.5	2,562	98973379
NK 32-125.1/140	2.2	2,604	98973381
NK 32-125/106	1.1	2,523	98973383
NK 32-125/115	1.5	2,596	98973385
NK 32-125/130	2.2	2,640	98973388
NK 32-125/142	3	2,819	98973391
NK 32-160.1/139	1.5	2,658	98973393
NK 32-160.1/155	2.2	2,696	98973395
NK 32-160.1/169	3	2,881	98973397
NK 32-160.1/177	4	3,046	98973401
NK 32-160/139	2.2	2,745	98973403
NK 32-160/151	3	2,932	98973405
NK 32-160/163	4	3,096	98973407
NK 32-160/177	5.5	3,324	98973410
NK 32-200.1/172	3	2,946	98973422
NK 32-200.1/188	4	3,111	98973424
NK 32-200.1/205	5.5	3,336	98973426
NK 32-200.1/207	7.5	3,555	98973429
NK 32-200/176	4	3,131	98973430
NK 32-200/190	5.5	3,364	98869755
NK 32-200/206	7.5	3,579	98408593
NK 32-200/219	11	4,136	98663381
NK 32-250/199	5.5	3,720	98973438
NK 32-250/219	7.5	3,945	98973431
NK 32-250/244	11	4,534	98973434
NK 32-250/262	15	5,033	98973444
NK 40-125/105	1.5	2,636	98973447
NK 40-125/116	2.2	2,680	98973450
NK 40-125/127	3	2,855	98553113
NK 40-125/139	4	3,024	98973452
NK 40-125/142	5.5	3,255	98973454
NK 40-160/144	4	3,123	98973456
NK 40-160/158	5.5	3,352	98973458
NK 40-160/172	7.5	3,565	98973436
NK 40-160/177	11	4,122	98431476
NK 40-200/172	5.5	3,448	98545685
NK 40-200/188	7.5	3,653	98973439
NK 40-200/206	11	4,214	98973441
NK 40-200/219	15	4,691	98973466
NK 40-250/211	11	4,580	98973442
NK 40-250/230	15	5,077	98052630
NK 40-250/245	18.5	5,296	98973445
NK 40-250/255	22	6,096	98257988
NK 40-250/260	30	7,377	98972741
NK 40-315/273	22	6,583	98973446
NK 40-315/298	30	7,872	98972745
NK 40-315/318	37	8,640	98972748
NK 40-315/336	45	10,942	98972750

ELECTRIC MOTOR

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

Motors 4kW and above are 380-415D V/3ph/50Hz

IP 55 Class F Insulation

All 2 poles motors up to and including 22kW are Grundfos IE3 efficiency standard.

All 2 poles motors above and including 30kW are Siemens IE3 efficiency standard.

PUMPS

Standard NK casing and impeller are cast iron.

All long-coupled NK pumps have spacer coupling and base frame.

Pumps with Custom Built options such as different material impellers, casings and non-standard seals can be configured and priced on request by your Sales Office.

Pump housings are flanged in accordance with EN1092-2 and EN733 design standards.

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			A2 F A E BQQE
NK 50-125/111	3	3,022	98476607
NK 50-125/121	4	3,193	98973476
NK 50-125/135	5.5	3,477	98973478
NK 50-125/144	7.5	3,643	98763599
NK 50-160/136	5.5	3,503	98973482
NK 50-160/150	7.5	3,672	98249313
NK 50-160/167	11	4,229	98973449
NK 50-160/177	15	4,707	98973488
NK 50-200/181	11	4,293	98973451
NK 50-200/198	15	4,773	98973492
NK 50-200/210	18.5	4,983	98425314
NK 50-200/219	22	5,743	98425315
NK 50-250/205	15	4,944	98973498
NK 50-250/222	18.5	5,151	98973453
NK 50-250/233	22	5,913	98973455
NK 50-250/254	30	7,138	98972782
NK 50-250/263	37	7,755	98972784
NK 50-315/267	30	8,047	98972786
NK 50-315/285	37	8,682	98972788
NK 50-315/300	45	9,935	98972790
NK 50-315/321	55	12,476	98972792
NK 65-125/120-110	4	3,324	98803689
NK 65-125/127	5.5	3,619	98646989
NK 65-125/137	7.5	3,788	98973457
NK 65-125/144	11	4,367	98973459
NK 65-160/143	7.5	3,857	98973461
NK 65-160/157	11	4,432	98973463
NK 65-160/173	15	4,932	98973508
NK 65-160/177	18.5	5,149	98973465
NK 65-200/162	11	4,663	98973467
NK 65-200/177	15	5,161	98973516
NK 65-200/190	18.5	5,385	98973469
NK 65-200/198	22	6,265	98724610
NK 65-200/217	30	7,480	98972819
NK 65-200/219	37	8,117	98972821
NK 65-250/223	30	7,948	98972823
NK 65-250/238	37	8,576	98972825
NK 65-250/251	45	9,830	98972828
NK 65-250/269	55	11,785	98972830
NK 65-250/270	75	14,228	98972832
NK 65-315/272	55	12,299	98972834
NK 65-315/295	75	14,592	98972837
NK 65-315/308	90	16,735	98972839
NK 65-315/320	110	20,330	98972841
NK 80-160/147-127	11	4,411	98973471
NK 80-160/151	15	4,882	98973525
NK 80-160/161	18.5	5,097	98973473
NK 80-160/167	22	5,855	98663370
NK 80-160/177	30	7,076	98972862
NK 80-200/171	22	6,404	98973475
NK 80-200/188	30	7,629	98876779
NK 80-200/200	37	8,334	98742088
NK 80-200/211	45	9,444	98972866
NK 80-200/222	55	11,332	98972868
NK 80-250/220	45	10,035	98972870
NK 80-250/234	55	11,998	98972873
NK 80-250/257	75	13,647	98972875
NK 80-250/270	90	15,358	98867710
NK 80-315/278	90	15,907	98972877
NK 80-315/295	110	20,573	98972880
NK 80-315/310	132	22,679	98972882
NK 80-315/328	160	25,968	98972885



CATEGORY 2 - NK SINGLE STAGE END SUCTION LONG-COUPLED PUMPS - EN733

COMPLETE WITH 2 POLES / 2900 RPM IE3 MOTORS

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
A2 F A E BQQE			
NK 100-160/160-154	18.5	5,371	98973728
NK 100-160/167	22	6,155	98973726
NK 100-160/176	30	7,405	98973337
NK 100-200/170	30	8,143	98972887
NK 100-200/181	37	8,775	98833673
NK 100-200/192	45	10,043	98972889
NK 100-200/203	55	12,010	98606358
NK 100-200/219	75	13,659	98698076
NK 100-250/205	55	12,215	98973187
NK 100-250/229	75	13,856	98973185
NK 100-250/242	90	15,567	98973183
NK 100-250/258	110	21,078	98973181
NK 100-250/269	132	23,415	98973179
NK 100-315/269	110	22,385	98829703
NK 100-315/284	132	23,459	98972891
NK 100-315/301	160	26,907	98972893
NK 100-315/322	200	31,164	98972895

ELECTRIC MOTOR

Motors 4kW and above are 380-415D V/3ph/50Hz
IP 55 Class F Insulation

All 2 poles motors up to and including 22kW are Grundfos IE3 efficiency standard.
All 2 poles motors above and including 30kW are Siemens IE3 efficiency standard.

PUMPS

Standard NK casing and impeller are cast iron.

All long-coupled NK pumps have spacer coupling and base frame.

Pumps with Custom Built options such as different material impellers, casings and non-standard seals can be configured and priced on request by your Sales Office.

Pump housings are flanged in accordance with EN1092-2 and EN733 design standards.

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.

Model	P2 kW	£	Product Code
A2 F A E BQQE			
NK 125-200/176-154	45	10,578	98973262
NK 125-200/196-166	55	12,543	98973260
NK 125-200/205	75	14,646	98973258
NK 125-200/219	90	16,271	98973257
NK 125-200/224	110	21,673	98973255
NK 125-250/222	90	16,665	98972898
NK 125-250/236	110	21,575	98972900
NK 125-250/249	132	23,169	98684463
NK 125-250/263	160	26,545	98972902
NK 125-250/269	200	30,820	98972904
NK 125-315/262	132	24,382	98972906
NK 125-315/277	160	27,736	98972908
NK 125-315/297	200	32,010	98972910
NK 125-315/317	250	47,302	98444952
NK 150-200/216-176	75	15,983	98767265
NK 150-200/218-202	90	17,606	98972912
NK 150-200/224	110	23,010	98972914
NK 150-250/226-220	132	26,702	98973304
NK 150-250/235	160	30,068	98973302
NK 150-250/250	200	34,441	98973300
NK 150-250/265	250	49,803	98973298
NK 150-315.2/244	160	32,014	99001704
NK 150-315.2/262	200	34,920	99001705



CATEGORY 2 - NK SINGLE STAGE END SUCTION LONG-COUPLED PUMPS - EN733

COMPLETE WITH 4 POLES / 1450 RPM IE3 MOTORS

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
A2 F A E BQQE			
NK 32-125.1/121	0.25	2,228	98986192
NK 32-125.1/139	0.25	2,228	98986194
NK 32-125.1/140	0.37	2,248	98986196
NK 32-125/115	0.25	2,264	98986218
NK 32-125/130	0.25	2,264	98986237
NK 32-125/142	0.37	2,282	98986239
NK 32-160.1/137	0.25	2,334	98986241
NK 32-160.1/155	0.25	2,334	98986245
NK 32-160.1/172	0.37	2,353	98986247
NK 32-160.1/177	0.55	2,403	98986249
NK 32-160/138	0.25	2,377	98986250
NK 32-160/154	0.37	2,395	98986301
NK 32-160/172	0.55	2,451	98986345
NK 32-160/173	0.75	2,568	98973535
NK 32-200.1/175	0.37	2,417	98986346
NK 32-200.1/196	0.55	2,471	98986348
NK 32-200.1/207	0.75	2,590	98973557
NK 32-200/184	0.55	2,493	98986349
NK 32-200/197	0.75	2,610	98973559
NK 32-200/216	1.1	2,662	98973561
NK 32-200/219	1.5	2,704	98973563
NK 32-250/206	0.75	2,936	98973537
NK 32-250/236	1.1	2,990	98973539
NK 32-250/260	1.5	3,032	98973553
NK 32-250/262	2.2	3,141	98973555
NK 40-125/116	0.25	2,304	98986475
NK 40-125/130	0.37	2,322	98986476
NK 40-125/142	0.55	2,383	98986477
NK 40-160/134	0.37	2,425	98986502
NK 40-160/151	0.55	2,479	98986504
NK 40-160/162	0.75	2,596	98973565
NK 40-160/177	1.1	2,648	98973567
NK 40-200/177	0.75	2,684	98973569
NK 40-200/198	1.1	2,741	98973572
NK 40-200/217	1.5	2,783	98973575
NK 40-200/219	2.2	2,893	98973578
NK 40-250/219	1.5	3,082	98973581
NK 40-250/245	2.2	3,197	98973583
NK 40-250/260	3	3,312	98973585
NK 40-315/283	3	3,844	98973587
NK 40-315/305	4	4,029	98973477
NK 40-315/334	5.5	4,512	98973479
NK 40-315/344	7.5	4,808	98973481
NK 50-125/113	0.37	2,477	98986501
NK 50-125/129	0.55	2,540	98990816
NK 50-125/138	0.75	2,656	98973596
NK 50-125/144	1.1	2,710	98973598
NK 50-160/131	0.55	2,584	98990819
NK 50-160/139	0.75	2,700	98973600
NK 50-160/158	1.1	2,749	98973603
NK 50-160/175	1.5	2,791	98705749
NK 50-160/177	2.2	2,905	98973606
NK 50-200/171	1.1	2,823	98973608
NK 50-200/188	1.5	2,861	98973610
NK 50-200/210	2.2	2,972	98545683
NK 50-200/219	3	3,080	98973612

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
A2 F A E BQQE			
NK 50-250/221	2.2	3,143	98973614
NK 50-250/241	3	3,247	98973616
NK 50-250/263	4	3,432	98973483
NK 50-315/277	4	4,176	98973485
NK 50-315/303	5.5	4,659	98074516
NK 50-315/331	7.5	4,954	98476310
NK 50-315/344	11	5,674	98973487
NK 65-125/122	0.55	2,668	98876500
NK 65-125/130	0.75	2,795	98973630
NK 65-125/144	1.1	2,843	98973632
NK 65-160/135	0.75	2,865	98973634
NK 65-160/149	1.1	2,922	98973636
NK 65-160/165	1.5	2,966	98973639
NK 65-160/177	2.2	3,078	98973641
NK 65-200/170	1.5	3,165	98973643
NK 65-200/189	2.2	3,275	98973645
NK 65-200/205	3	3,386	98973647
NK 65-200/219	4	3,587	98973489
NK 65-250/215	3	3,879	98973663
NK 65-250/232	4	4,066	98973491
NK 65-250/254	5.5	4,520	98973493
NK 65-250/270	7.5	4,711	98144820
NK 65-315/261	5.5	4,739	98973495
NK 65-315/282	7.5	4,934	98973497
NK 65-315/314	11	5,618	98074514
NK 65-315/320	15	5,859	98973499
NK 80-160/146	1.5	2,974	98973677
NK 80-160/161	2.2	3,088	98973679
NK 80-160/175	3	3,197	98973681
NK 80-160/177	4	3,378	98476627
NK 80-200/164	2.2	3,641	98973685
NK 80-200/179	3	3,746	98973687
NK 80-200/196	4	3,935	98973501
NK 80-200/214	5.5	4,361	98144818
NK 80-200/222	7.5	4,546	98973503
NK 80-250/225	5.5	4,677	98973505
NK 80-250/247	7.5	4,892	98973507
NK 80-250/270	11	5,608	98476530
NK 80-315/280	11	5,843	98973510
NK 80-315/305	15	6,080	98074512
NK 80-315/320	18.5	6,889	98972335
NK 80-315/334	22	7,196	98972337
NK 80-400/347	18.5	8,923	98972339
NK 80-400/365	22	9,446	98972341
NK 80-400/397	30	10,586	98972344
NK 80-400/419	37	11,720	98972346
NK 80-400/438	45	12,627	98972350
NK 100-160/160-140	2.2	3,324	98973421
NK 100-160/169	3	3,444	98973408
NK 100-160/176	4	3,625	98973730
NK 100-200/178	4	4,237	98973513
NK 100-200/195	5.5	4,689	98973515
NK 100-200/211	7.5	4,890	98847691
NK 100-200/219	11	5,620	98122895

Motor specification, reference to accessories and operational details are on page 16.



CATEGORY 2 - NK SINGLE STAGE END SUCTION LONG-COUPLED PUMPS - EN733

COMPLETE WITH 4 POLES / 1450 RPM IE3 MOTORS

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
A2 F A E BQQE			
NK 100-250/215	7.5	5,083	98973704
NK 100-250/245	11	5,813	98973702
NK 100-250/274	15	6,066	98973690
NK 100-315/279	15	6,559	98973517
NK 100-315/295	18.5	7,371	98972358
NK 100-315/312	22	7,675	98972360
NK 100-315/334	30	8,791	98607734
NK 100-400/334	22	9,680	98973241
NK 100-400/360	30	10,822	98973240
NK 100-400/375	37	11,950	98973239
NK 100-400/395	45	12,854	98973238
NK 100-400/415	55	14,734	98973236
NK 125-200/176-154	5.5	5,250	98973713
NK 125-200/196-180	7.5	5,441	98973711
NK 125-200/219	11	6,187	98973710
NK 125-200/226	15	6,426	98973708
NK 125-250/220	11	6,084	98973519
NK 125-250/236	15	6,318	98663368
NK 125-250/249	18.5	7,126	98731075
NK 125-250/262	22	7,438	98476605
NK 125-250/269	30	8,545	98663363
NK 125-315/275	18.5	8,915	98972366
NK 125-315/290	22	9,159	98780297
NK 125-315/317	30	10,301	98972368
NK 125-315/336	37	11,437	98972370
NK 125-315/338	45	12,342	98972372
NK 125-400/345	37	12,020	98972374
NK 125-400/368	45	12,921	98972376
NK 125-400/392	55	14,801	98972378
NK 125-400/433	75	16,882	98424188
NK 125-400/438	90	18,569	98972380
NK 125-500/406	55	17,427	98972382
NK 125-500/447	75	19,616	98972384
NK 125-500/473	90	21,392	98972386
NK 125-500/500	110	27,665	98972389
NK 125-500/526	132	28,401	98531708
NK 125-500/548	160	30,263	98972391
NK 150-200/210-158	7.5	6,310	98973521
NK 150-200/218-208	11	7,401	98244644
NK 150-200/224	15	7,651	98780294
NK 150-250/226-214	15	8,322	98918826
NK 150-250/230	18.5	9,072	98930113
NK 150-250/242	22	9,448	98964693
NK 150-250/262	30	10,528	98973311
NK 150-250/275	37	11,907	98973308
NK 150-250/282	45	12,832	98973306

ELECTRIC MOTOR

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

Motors 4kW and above are 380-415D V/3ph/50Hz

IP 55 Class F Insulation

All motors up to and including 0.55kW have no efficiency standard

All 4 poles motors up to and including 15kW are Grundfos IE3 efficiency standard.

All 4 poles motors above and including 18.5kW are Siemens IE3 efficiency standard.

PUMPS

Standard NK casing and impeller are cast iron.

All long-coupled NK pumps have spacer coupling and base frame.

Pumps with Custom Built options such as different material impellers, casings and non-standard seals can be configured and priced on request by your Sales Office.

Pump housings are flanged in accordance with EN1092-2 and EN733 design standards.

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
A2 F A E BQQE			
NK 150-315.2/250	22	9,846	99001706
NK 150-315.2/275	30	11,003	99001707
NK 150-315.2/294	37	11,944	99001708
NK 150-315.2/314	45	12,792	99001710
NK 150-315.2/334	55	14,740	99001711
NK 150-315.2/342	75	16,655	99001713
NK 150-315/260	30	11,123	98972397
NK 150-315/275	37	12,253	98698281
NK 150-315/291	45	13,162	98972399
NK 150-315/310	55	15,034	98972401
NK 150-315/336	75	17,115	98519153
NK 150-315/338	90	18,808	98972402
NK 150-400/343	55	16,164	98972405
NK 150-400/375	75	18,380	98877246
NK 150-400/394	90	20,157	98606356
NK 150-400/412	110	26,487	98698280
NK 150-400/431	132	27,223	98531710
NK 150-400/438	160	29,071	98464513
NK 150-500/459	132	29,077	98972407
NK 150-500/489	160	30,910	98531731
NK 150-500/521	200	34,158	98531733
NK 200-400/280	37	19,711	98973136
NK 200-400/296	45	20,622	98973138
NK 200-400/312	55	21,832	98973140
NK 200-400/344	75	23,006	98973142
NK 200-400/364	90	24,008	98973143
NK 200-400/392	110	26,875	98973145
NK 200-400/404	132	27,999	98531734
NK 200-450/367	75	23,937	98973092
NK 200-450/391	90	24,939	98973094
NK 200-450/415	110	29,845	98973096
NK 200-450/435	132	30,969	98531735
NK 200-450/455	160	32,734	98973099
NK 250-350/266	37	21,227	98476353
NK 250-350/294	45	22,614	98573828
NK 250-350/318	55	24,074	98973065
NK 250-350/362	75	27,810	98973067
NK 250-350/370	90	29,286	98973070
NK 250-400/281	45	23,961	98973048
NK 250-400/301	55	25,421	98973049
NK 250-400/329	75	29,157	98973050
NK 250-400/349	90	30,633	98973051
NK 250-400/365	110	32,394	98973052
NK 250-400/385	132	33,536	98854358
NK 250-400/405	160	35,260	98643120
NK 250-450/325	75	29,412	98973182
NK 250-450/341	90	30,866	98973184
NK 250-450/361	110	32,599	98973186
NK 250-450/381	132	33,951	98973188
NK 250-450/401	160	35,587	98973189
NK 250-450/445	200	38,406	98973191
NK 250-500/417	160	39,056	98973072
NK 250-500/445	200	42,329	98973074
NK 250-500/485	250	55,483	98973076
NK 250-500/525	315	62,718	98973078



CATEGORY 2 - NK SINGLE STAGE END SUCTION LONG-COUPLED PUMPS - EN733

COMPLETE WITH 6 POLES / 960 RPM IE3 MOTORS

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			A2 F A E BQQE
NK 100-160/160-140	0.55	3,539	98973353
NK 100-160/169	0.75	3,750	98973351
NK 100-160/176	1.1	3,812	98973349
NK 100-200/182	1.1	4,383	98972409
NK 100-200/193	1.5	4,494	98972410
NK 100-200/214	2.2	4,637	98972412
NK 100-200/219	3	5,107	98972414
NK 100-250/216	2.2	4,862	98973202
NK 100-250/236	3	5,318	98973200
NK 100-250/260	4	5,336	98973198
NK 100-250/274	5.5	5,877	98973196
NK 100-315/272	4	5,889	98972416
NK 100-315/301	5.5	6,386	98972418
NK 100-315/326	7.5	6,875	98972420
NK 100-315/334	11	7,787	98972422
NK 100-400/340	7.5	8,535	98973244
NK 100-400/380	11	9,432	98973243
NK 100-400/415	15	10,224	98973242
NK 125-200/176-150	1.5	5,111	98973281
NK 125-200/196-182	2.2	5,268	98973270
NK 125-200/215	3	5,722	98973269
NK 125-200/226	4	5,755	98973268
NK 125-250/216	3	5,666	98972424
NK 125-250/232	4	5,678	98972426
NK 125-250/253	5.5	6,183	98972428
NK 125-250/269	7.5	6,629	98972429
NK 125-315/275	5.5	7,550	98972431
NK 125-315/297	7.5	8,001	98972433
NK 125-315/335	11	8,921	98972435
NK 125-315/338	15	9,714	98972437
NK 125-400/351	11	9,704	98972439
NK 125-400/384	15	10,496	98972441
NK 125-400/410	18.5	11,340	98972443
NK 125-400/434	22	12,022	98972444
NK 125-400/438	30	12,830	98990844
NK 125-500/421	18.5	13,542	98972448
NK 125-500/445	22	14,246	98972450
NK 125-500/493	30	15,090	98972452
NK 125-500/524	37	16,168	98972458
NK 125-500/546	45	17,509	98972454
NK 125-500/548	55	18,587	98990845
NK 150-200/210-168	2.2	6,209	98972460
NK 150-200/218-200	3	6,655	98972462
NK 150-200/224	4	6,674	98972464
NK 150-250/235	5.5	7,922	98973318
NK 150-250/252	7.5	8,389	98973316
NK 150-250/282	11.0	9,340	98973314
NK 150-315.2/259	7.5	9,710	99001714
NK 150-315.2/293	11.0	10,635	99001715
NK 150-315.2/328	15.0	10,769	99001716
NK 150-315.2/342	18.5	12,185	99001717
NK 150-315/280	11.0	10,683	98972465
NK 150-315/305	15.0	11,451	98972467
NK 150-315/322	18.5	12,245	98972469
NK 150-315/337	22.0	12,927	98737868
NK 150-315/338	30.0	13,785	98972471

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			A2 F A E BQQE
NK 150-400/357	18.5	13,438	98972473
NK 150-400/375	22	14,145	98972475
NK 150-400/408	30	15,046	98972478
NK 150-400/430	37	16,134	98972480
NK 150-400/438	45	17,483	98972482
NK 150-500/457	37	17,883	98972484
NK 150-500/483	45	19,224	98972486
NK 150-500/513	55	20,300	98972488
NK 150-500/548	75	21,752	98972490
NK 200-400/308	15	16,741	98973148
NK 200-400/328	18.5	17,501	98973150
NK 200-400/348	22	18,722	98973153
NK 200-400/384	30	19,874	98973154
NK 200-400/404	37	21,305	98973156
NK 200-450/355	18.5	17,978	98973101
NK 200-450/371	22	19,425	98973103
NK 200-450/407	30	20,805	98973106
NK 200-450/431	37	22,236	98973108
NK 200-450/451	45	23,672	98973110
NK 250-350/277	11	17,586	98476332
NK 250-350/306	15	18,897	98973091
NK 250-350/330	18.5	19,896	98973093
NK 250-350/366	22	20,903	98973095
NK 250-400/289	15	19,088	98973053
NK 250-400/313	18.5	20,087	98973054
NK 250-400/329	22	21,094	98973055
NK 250-400/361	30	23,189	98973056
NK 250-400/381	37	24,414	98973057
NK 250-400/401	45	25,409	98973058
NK 250-450/313	18.5	20,505	98973193
NK 250-450/325	22	21,500	98973195
NK 250-450/357	30	23,559	98973197
NK 250-450/377	37	24,766	98973199
NK 250-450/397	45	25,747	98973201
NK 250-450/433	55	26,951	98973203
NK 250-500/409	45	29,215	98973097
NK 250-500/437	55	30,647	98973098
NK 250-500/485	75	35,334	98973100
NK 250-500/525	90	37,821	98973102

ELECTRIC MOTOR

Motors up to and including 3kW are 3 x 220-240D/380-420V V/3ph/50Hz

Motors 4kW and above are 380-420D V/3ph/50Hz

IP 55 Class F Insulation

All motors up to and including 0.55kW have no efficiency standard

All 6 poles motors above and including 0.75kW are Siemens IE3 efficiency standard.

PUMPS

Standard NK casing and impeller are cast iron.

All long-coupled NK pumps have spacer coupling and base frame.

Pumps with Custom Built options such as different material impellers, casings and non-standard seals can be configured and priced on request by your Sales Office.

Pump housings are flanged in accordance with EN1092-2 and EN733 design standards.



CATEGORY 2 - NKE VARIABLE SPEED SINGLE STAGE END SUCTION LONG-COUPLED PUMPS - EN733
COMPLETE WITH 2900 RPM (2 POLES) 3 PHASE VARIABLE SPEED MOTOR

Model	P2 kW	Differential pressure transducer range	£	Product code
380-480/500V 3ph 50/60Hz 2900rpm				A2 F A E BQQE
NKE 32-125.1/110	1.1	0 - 2.5 bar	3,587	98987155
NKE 32-125.1/121	1.5	0 - 2.5 bar	3,721	98990856
NKE 32-125.1/140	2.2	0 - 4 bar	3,988	98990857
NKE 32-125/106	1.1	0 - 1.6 bar	3,621	98990858
NKE 32-125/115	1.5	0 - 2.5 bar	3,755	98990859
NKE 32-125/130	2.2	0 - 2.5 bar	4,024	98990860
NKE 32-125/142	3	0 - 4 bar	4,432	99105881
NKE 32-160.1/139	1.5	0 - 2.5 bar	3,816	98990862
NKE 32-160.1/155	2.2	0 - 4 bar	4,080	98990863
NKE 32-160.1/169	3	0 - 4 bar	4,494	99106228
NKE 32-160.1/177	4	0 - 6 bar	4,885	99106230
NKE 32-160/139	2.2	0 - 4 bar	4,127	98990866
NKE 32-160/151	3	0 - 4 bar	4,544	99105883
NKE 32-160/163	4	0 - 4 bar	4,934	99105885
NKE 32-160/177	5.5	0 - 6 bar	5,405	99105886
NKE 32-200.1/172	3	0 - 4 bar	4,558	99106232
NKE 32-200.1/188	4	0 - 6 bar	4,948	99106233
NKE 32-200.1/205	5.5	0 - 6 bar	5,417	99106234
NKE 32-200.1/207	7.5	0 - 6 bar	6,082	99099256
NKE 32-200/176	4	0 - 4 bar	4,968	99105889
NKE 32-200/190	5.5	0 - 6 bar	5,445	99105890
NKE 32-200/206	7.5	0 - 6 bar	6,106	99099260
NKE 32-200/219	11	0 - 10 bar	7,416	99099262
NKE 32-250/199	5.5	0 - 6 bar	5,797	99105892
NKE 32-250/219	7.5	0 - 10 bar	6,469	99099266
NKE 32-250/244	11	0 - 10 bar	7,810	99099270
NKE 32-250/262	15	0 - 10 bar	8,878	97944779
NKE 40-125/105	1.5	0 - 1.6 bar	3,795	98990878
NKE 40-125/116	2.2	0 - 2.5 bar	4,064	98990879
NKE 40-125/127	3	0 - 2.5 bar	4,468	99105893
NKE 40-125/139	4	0 - 4 bar	4,863	99105895
NKE 40-125/142	5.5	0 - 4 bar	5,337	99105897
NKE 40-160/144	4	0 - 4 bar	4,960	99105898
NKE 40-160/158	5.5	0 - 4 bar	5,433	99105899
NKE 40-160/172	7.5	0 - 6 bar	6,092	99099273
NKE 40-160/177	11	0 - 6 bar	7,402	99098780
NKE 40-200/172	5.5	0 - 4 bar	5,528	99105901
NKE 40-200/188	7.5	0 - 6 bar	6,180	99099276
NKE 40-200/206	11	0 - 6 bar	7,493	99099281
NKE 40-200/219	15	0 - 10 bar	8,540	98991028
NKE 40-250/211	11	0 - 10 bar	7,856	99099284
NKE 40-250/230	15	0 - 10 bar	8,922	98991030
NKE 40-250/245	18.5	0 - 10 bar	9,905	98973470
NKE 40-250/255	22	0 - 10 bar	11,304	98973472
NKE 40-315/273	22	0 - 10 bar	11,786	98973474
NKE 50-125/111	3	0 - 1.6 bar	4,634	99105902
NKE 50-125/121	4	0 - 2.5 bar	5,030	99105903
NKE 50-125/135	5.5	0 - 4 bar	5,556	99105904
NKE 50-125/144	7.5	0 - 4 bar	6,170	99099287
NKE 50-160/136	5.5	0 - 4 bar	5,582	99105905
NKE 50-160/150	7.5	0 - 4 bar	6,198	99099291
NKE 50-160/167	11	0 - 4 bar	7,507	99099294
NKE 50-160/177	15	0 - 6 bar	8,556	98991038
NKE 50-200/181	11	0 - 6 bar	7,571	99099298
NKE 50-200/198	15	0 - 6 bar	8,621	98991040
NKE 50-200/210	18.5	0 - 10 bar	9,594	98973494
NKE 50-200/219	22	0 - 10 bar	10,953	98973496
NKE 50-250/205	15	0 - 6 bar	8,791	98991041
NKE 50-250/222	18.5	0 - 10 bar	9,761	98973500
NKE 50-250/233	22	0 - 10 bar	11,123	98901182

Motor specification, reference to accessories and operational details are on page 19.



CATEGORY 2 - NKE VARIABLE SPEED SINGLE STAGE END SUCTION LONG-COUPLED PUMPS - EN733
COMPLETE WITH 2900 RPM (2 POLES) 3 PHASE VARIABLE SPEED MOTOR

Model	P2 kW	Differential pressure transducer range	£	Product code
380-480/500V 3ph 50/60Hz 2900rpm				A2 F A E BQQE
NKE 65-125/120-110	4	0 - 1.6 bar	5,160	99105906
NKE 65-125/127	5.5	0 - 2.5 bar	5,698	99105907
NKE 65-125/137	7.5	0 - 2.5 bar	6,314	99099301
NKE 65-125/144	11	0 - 4 bar	7,645	99098777
NKE 65-160/143	7.5	0 - 4 bar	6,381	99099305
NKE 65-160/157	11	0 - 4 bar	7,709	99099308
NKE 65-160/173	15	0 - 6 bar	8,779	98147969
NKE 65-160/177	18.5	0 - 6 bar	9,759	98973512
NKE 65-200/162	11	0 - 4 bar	7,938	99099312
NKE 65-200/177	15	0 - 6 bar	9,006	98991049
NKE 65-200/190	18.5	0 - 6 bar	9,993	98973518
NKE 65-200/198	22	0 - 6 bar	11,388	98973520
NKE 80-160/147-127	11	0 - 2.5 bar	7,689	99099316
NKE 80-160/151	15	0 - 4 bar	8,729	98991051
NKE 80-160/161	18.5	0 - 4 bar	9,708	98973528
NKE 80-160/167	22	0 - 4 bar	11,065	98973531
NKE 80-200/171	22	0 - 6 bar	11,609	98973533
NKE 100-160/160-154	18.5	0 - 4 bar	9,979	98973404
NKE 100-160/167	22	0 - 4 bar	11,362	98973402

ELECTRIC MOTOR

380-500V 3ph 50/60Hz up to 11kW with IE5 efficiency
 380-480V 3ph 50/60Hz above 15kW
 IP 55 Class F Insulation

PUMPS

Standard NKE casing and impeller are cast iron.

All long-coupled NKE pumps have spacer coupling and base frame.

Pumps with Custom Built options such as different material impellers and non standard seals can be configured and priced on request by your Sales Office.

Pump housings are flanged in accordance with EN1092-2 and EN733 standards.

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.

NKE OPERATION

These models have been designed for operation in either open or closed loop control arrangements. The Default control mode is "Uncontrolled Curve / Constant curve".

NKE pumps do not include transducers for closed loop control.
 Transducers can be supplied as separate items for pipework installations.
 Single point pressure transducers are listed with their ranges on page 22.

The transducer ranges listed for the NKE pumps only cover the max closed valve pressure with no inlet head. Please check the inlet head to check if the transducer size needs to be increased.

There is no sensor connection point on the NKE pump and connections need to be made in the pipework.

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details. This device can be used to commission and monitor multiple pumps on multiple sites.



CATEGORY 2 - NKE VARIABLE SPEED SINGLE STAGE END SUCTION LONG-COUPLED PUMPS - EN733
COMPLETE WITH 1450 RPM (4 POLES) 3 PHASE VARIABLE SPEED MOTOR

Model	P2 kW	Differential pressure transducer range	£	Product code
380-480/500V 3ph 50/60Hz 1450rpm				A2 F A E BQQE
NKE 32-160.1/177	0.55	0 - 1.6 bar	3,553	98991108
NKE 32-160/172	0.55	0 - 1.6 bar	3,601	98991110
NKE 32-160/173	0.75	0 - 1.6 bar	3,643	98991112
NKE 32-200.1/196	0.55	0 - 1.6 bar	3,621	98991113
NKE 32-200.1/207	0.75	0 - 1.6 bar	3,665	98991115
NKE 32-200/184	0.55	0 - 1.6 bar	3,643	98991135
NKE 32-200/197	0.75	0 - 1.6 bar	3,685	98991137
NKE 32-200/216	1.1	0 - 2.5 bar	3,759	98991138
NKE 32-200/219	1.5	0 - 2.5 bar	3,862	99105827
NKE 32-250/206	0.75	0 - 1.6 bar	4,008	98991140
NKE 32-250/236	1.1	0 - 2.5 bar	4,084	98991151
NKE 32-250/260	1.5	0 - 2.5 bar	4,187	99105828
NKE 32-250/262	2.20	0 - 2.5 bar	4,520	99105829
NKE 40-125/142	0.55	0 - 1.0 bar	3,533	98991158
NKE 40-160/151	0.55	0 - 1.0 bar	3,629	98991160
NKE 40-160/162	0.75	0 - 1.0 bar	3,671	99104772
NKE 40-160/177	1.1	0 - 1.6 bar	3,745	99104784
NKE 40-200/177	0.75	0 - 1.6 bar	3,759	99104788
NKE 40-200/198	1.1	0 - 1.6 bar	3,836	99104789
NKE 40-200/217	1.5	0 - 1.6 bar	3,940	99105830
NKE 40-200/219	2.2	0 - 2.5 bar	4,275	99105831
NKE 40-250/219	1.5	0 - 2.5 bar	4,237	99105832
NKE 40-250/245	2.2	0 - 2.5 bar	4,576	99105834
NKE 40-250/260	3	0 - 2.5 bar	4,921	99105835
NKE 40-315/283	3	0 - 4 bar	5,449	99105836
NKE 40-315/305	4	0 - 4 bar	5,859	99099319
NKE 40-315/334	5.5	0 - 4 bar	6,716	99099322
NKE 40-315/344	7.5	0 - 6 bar	7,420	99099327
NKE 50-125/129	0.55	0 - 0.6 bar	3,689	99104790
NKE 50-125/138	0.75	0 - 1.0 bar	3,731	99104791
NKE 50-125/144	1.1	0 - 1.0 bar	3,806	99104792
NKE 50-160/131	0.55	0 - 0.6 bar	3,733	99104795
NKE 50-160/139	0.75	0 - 1.0 bar	3,775	99104797
NKE 50-160/158	1.1	0 - 1.0 bar	3,844	99104798
NKE 50-160/175	1.5	0 - 1.6 bar	3,948	99105838
NKE 50-160/177	2.2	0 - 1.6 bar	4,287	99105839
NKE 50-200/171	1.1	0 - 1.6 bar	3,918	99104799
NKE 50-200/188	1.5	0 - 1.6 bar	4,018	99105841
NKE 50-200/210	2.2	0 - 1.6 bar	4,353	99105842
NKE 50-200/219	3	0 - 2.5 bar	4,691	99105843
NKE 50-250/221	2.2	0 - 2.5 bar	4,522	99105845
NKE 50-250/241	3	0 - 2.5 bar	4,857	99105846
NKE 50-250/263	4	0 - 2.5 bar	5,267	99099330
NKE 50-315/277	4	0 - 4 bar	6,005	99099343
NKE 50-315/303	5.5	0 - 4 bar	6,862	99099346
NKE 50-315/331	7.5	0 - 6 bar	7,565	99099350
NKE 50-315/344	11	0 - 6 bar	9,034	98973627
NKE 65-125/122	0.55	0 - 0.6 bar	3,816	99104800
NKE 65-125/130	0.75	0 - 0.6 bar	3,868	99104802
NKE 65-125/144	1.1	0 - 1.0 bar	3,938	99104803
NKE 65-160/135	0.75	0 - 1.0 bar	3,938	99104804
NKE 65-160/149	1.1	0 - 1.0 bar	4,016	99104805
NKE 65-160/165	1.5	0 - 1.0 bar	4,121	99105847
NKE 65-160/177	2.2	0 - 1.6 bar	4,458	99105848
NKE 65-200/170	1.5	0 - 1.6 bar	4,319	99105850
NKE 65-200/189	2.2	0 - 1.6 bar	4,653	99105851
NKE 65-200/205	3	0 - 1.6 bar	4,994	99105852
NKE 65-200/219	4	0 - 2.5 bar	5,421	99099354
NKE 65-250/215	3	0 - 2.5 bar	5,483	99105864
NKE 65-250/232	4	0 - 2.5 bar	5,895	99099357
NKE 65-250/254	5.5	0 - 2.5 bar	6,724	99099360
NKE 65-250/270	7.5	0 - 4 bar	7,324	99099364
NKE 65-315/261	5.5	0 - 2.5 bar	6,941	99099368
NKE 65-315/282	7.5	0 - 4 bar	7,545	99099371
NKE 65-315/314	11	0 - 4 bar	8,978	98951019
NKE 65-315/320	15	0 - 4 bar	9,787	98973675

Motor specification, reference to accessories and operational details are on page 21.



CATEGORY 2 - NKE VARIABLE SPEED SINGLE STAGE END SUCTION LONG-COUPLED PUMPS - EN733
COMPLETE WITH 1450 RPM (4 POLES) 3 PHASE VARIABLE SPEED MOTOR

Model	P2 kW	Differential pressure transducer range	£	Product code
380-480/500V 3ph 50/60Hz 1450rpm				A2 F A E BQQE
NKE 80-160/146	1.5	0 - 1.0 bar	4,129	99105867
NKE 80-160/161	2.2	0 - 1.0 bar	4,468	99105868
NKE 80-160/175	3	0 - 1.6 bar	4,807	99105870
NKE 80-160/177	4	0 - 1.6 bar	5,214	99099374
NKE 80-200/164	2.2	0 - 1.0 bar	5,016	99105871
NKE 80-200/179	3	0 - 1.6 bar	5,351	99105872
NKE 80-200/196	4	0 - 1.6 bar	5,766	99099379
NKE 80-200/214	5.5	0 - 2.5 bar	6,567	99099382
NKE 80-200/222	7.5	0 - 2.5 bar	7,161	99099385
NKE 80-250/225	5.5	0 - 2.5 bar	6,880	99099390
NKE 80-250/247	7.5	0 - 2.5 bar	7,503	99099393
NKE 80-250/270	11	0 - 4 bar	8,968	98973712
NKE 80-315/280	11	0 - 4 bar	9,201	98973714
NKE 80-315/305	15	0 - 4 bar	10,006	98951018
NKE 80-315/320	18.5	0 - 4 bar	11,583	99495748
NKE 80-400/347	18.5	0 - 6 bar	13,422	99104808
NKE 100-160/160-140	2.2	0 - 1.0 bar	4,701	99105873
NKE 100-160/169	3	0 - 1.0 bar	5,052	99105874
NKE 100-160/176	4	0 - 1.0 bar	5,459	99099242
NKE 100-200/178	4	0 - 1.6 bar	6,064	99105875
NKE 100-200/195	5.5	0 - 1.6 bar	6,892	99105877
NKE 100-200/211	7.5	0 - 2.5 bar	7,501	99105878
NKE 100-200/219	11	0 - 2.5 bar	8,980	98122879
NKE 100-250/215	7.5	0 - 2.5 bar	7,693	99099231
NKE 100-250/245	11	0 - 2.5 bar	9,171	98973382
NKE 100-250/274	15	0 - 4 bar	9,993	98973380
NKE 100-315/279	15	0 - 4 bar	10,481	98973729
NKE 100-315/295	18.5	0 - 4 bar	11,884	99104810
NKE 125-200/176-154	5.5	0 - 1.0 bar	7,448	99099238
NKE 125-200/196-180	7.5	0 - 1.6 bar	8,047	99099234
NKE 125-200/219	11	0 - 2.5 bar	9,542	98973390
NKE 125-200/226	15	0 - 2.5 bar	10,349	98973387
NKE 125-250/220	11	0 - 2.5 bar	9,440	98973731
NKE 125-250/236	15	0 - 2.5 bar	10,242	98973733
NKE 125-250/249	18.5	0 - 2.5 bar	11,641	96783217
NKE 125-315/275	18.5	0 - 4 bar	13,357	95108574
NKE 150-200/210-158	7.5	0 - 1.0 bar	8,908	99157805
NKE 150-200/218-208	11	0 - 1.6 bar	10,746	98187001
NKE 150-200/224	15	0 - 1.6 bar	11,563	98965137
NKE 150-250/226-214	15	0 - 1.6 bar	12,229	98973400
NKE 150-250/230	18.5	0 - 2.5 bar	13,570	99105549

ELECTRIC MOTOR

380-500V 3ph 50/60Hz up to 7.5kW with IE5 efficiency
 380-480V 3ph 50/60Hz above 11kW
 IP 55 Class F Insulation

PUMPS

Standard NKE casing and impeller are cast iron.
 All long-coupled NKE pumps have spacer coupling and base frame.
 Pumps with Custom Built options such as different material impellers and non standard seals can be configured and priced on request by your Sales Office.
 Pump housings are flanged in accordance with EN1092-2 and EN733 standards.

COUNTER FLANGES

Pump Counter Flanges are supplied as optional extras and are indicated on page 22.

NKE OPERATION

These models have been designed for operation in either open or closed loop control arrangements.
 The Default control mode is "Uncontrolled Curve / Constant curve".

NKE pumps do not include transducers for closed loop control.
 Transducers can be supplied as separate items for pipework installations.
 Single point pressure transducers are listed with their ranges on page 22.

The transducer ranges listed for the NKE pumps only cover the max closed valve pressure with no inlet head.
 Please check the inlet head to check if the transducer size needs to be increased.

There is no sensor connection point on the NKE pump and connections need to be made in the pipework .

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details.
 This device can be used to commission and monitor multiple pumps on multiple sites.



CATEGORY 2 - ACCESSORIES

COUNTER FLANGES FOR NB, NBE, NK, NKE PUMPS

Screwed Boss counter flanges in accordance with EN1092-2 are available up to DN100 only as an optional extra.

Pump flange size	Rating	Thread	£	Product Code	Weld	£	Product Code
DN 32	PN10/16	1"½ BSPF	58	419901	32mm	58	419902
DN 40	PN10/16	1"½ BSPF	71	429902	40mm	77	429901
DN 50	PN10/16	2" BSPF	84	339903	50mm	103	339901
DN 65	PN10/16	2"½ BSPF	58	349902	65mm	58	349904
DN 80	PN10/16	3" BSPF	71	350540	80mm	71	350541
DN 100	PN10/16	4" BSPF	84	369901	100mm	67	96569188
DN 125	PN10/16		-	-	125mm	204	96414677
DN 150	PN10/16		-	-	150mm	218	96414676
DN 200	PN10		-	-	200mm	233	96413358
DN 250	PN10		-	-	250mm	247	96691156
DN 300	PN10		-	-	300mm	262	96691157

The flange price includes one flange, one gasket and nuts and bolts. Two required each pump.

All counter flanges in uncoated steel St 37-2 (DIN 1.0038)

CATEGORY 2 - VARIABLE SPEED NBE/NKE and CRI/CR/CRNE PUMP SENSORS & KITS

PRESSURE TRANSDUCER - SINGLE POINT PRESSURE TRANSMITTER FOR OPEN CIRCUIT APPLICATIONS

Model	Fittings	Transducer Range	£	Product Code
Danfoss MBS 3000	1/2" BSPM	0-2.5 bar	228	99033768
Danfoss MBS 3000	1/2" BSPM	0-4 bar	228	96637450
Danfoss MBS 3000	1/2" BSPM	0-6 bar	228	96637451
Danfoss MBS 3000	1/2" BSPM	0-10 bar	228	96637452
Danfoss MBS 3000	1/2" BSPM	0-16 bar	228	96637453
Danfoss MBS 3000 without cable	1/2" BSPM	0-25 bar	228	91072079

PRESSURE TRANSDUCER - SINGLE POINT HIGH PRESSURE TRANSMITTER FOR OPEN CIRCUIT APPLICATIONS

Model	Fittings	Transducer Range	£	Product Code
Danfoss MBS 3000	1/2" BSPM	0-40 bar	498	96483573
Danfoss MBS 3000	1/2" BSPM	0-60 bar	498	96483574

with 2m cable



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	329	98046408

NOTE - All List Prices above are subject to Category 4 discount terms

Notes

CATEGORY 2 - CRI 1s and CRI 1 304 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	£	Product Code	£	Product Code
			230V 1ph 50Hz		400V 3ph 50Hz
			A CA A V HQQV		A CA A V HQQV
CRI 1s-2	0.37	729	96531799	694	96515806
CRI 1s-3	0.37	750	96531840	715	96515807
CRI 1s-4	0.37	773	96531842	738	96515808
CRI 1s-5	0.37	793	96531843	758	96515810
CRI 1s-6	0.37	816	96531845	781	96515811
CRI 1s-7	0.37	839	96531847	804	96515813
CRI 1s-8	0.37	862	96531849	827	96515815
CRI 1s-9	0.37	882	96531871	847	96515817
CRI 1s-10	0.37	903	96531873	868	96515818
CRI 1s-11	0.37	926	96531875	891	96515820
CRI 1s-12	0.37	948	96531878	913	96515821
CRI 1s-13	0.37	969	96531890	934	96515822
CRI 1s-15	0.55	1056	96531891	1,004	96515823
CRI 1s-17	0.55	1089	96531893	1,037	96515824
CRI 1s-19	0.55	1145	96531898	1,093	96515825
			A FGJ A V HQQV		A FGJ A V HQQV
CRI 1s-21	0.75	1325	96531896	1,232	96527621
CRI 1s-23	0.75	1380	96531930	1,287	96527622
CRI 1s-25	0.75	1436	96531932	1,343	96527623
CRI 1s-27	1.1	1585	96533036	1,434	96527624
CRI 1s-30	1.1	1709	96533037	1,558	96527625
CRI 1s-33	1.1	1792	96533038	1,641	96527626
CRI 1s-36	1.1	POA	96533039	1,723	96527627
			A CA A V HQQV		A CA A V HQQV
CRI 1-2	0.37	719	96532164	684	96516338
CRI 1-3	0.37	742	96532165	707	96516339
CRI 1-4	0.37	762	96532166	727	96516340
CRI 1-5	0.37	785	96532167	750	96516341
CRI 1-6	0.37	808	96532168	773	96516342
CRI 1-7	0.37	829	96532169	793	96516343
CRI 1-8	0.55	851	96532170	800	96516344
CRI 1-9	0.55	880	96532171	829	96516345
CRI 1-10	0.55	913	96532172	862	96516346
CRI 1-11	0.55	948	96532173	897	96516347
CRI 1-12	0.75	1021	96532482	928	96516348
CRI 1-13	0.75	1062	96532489	969	96516349
CRI 1-15	0.75	1132	96532497	1,039	96516350
CRI 1-17	1.1	1258	96533345	1,108	96516351
CRI 1-19	1.1	1329	96533346	1,178	96516352
			A FGJ A V HQQV		A FGJ A V HQQV
CRI 1-21	1.1	1444	96533347	1,294	96530620
CRI 1-23	1.1	1500	96533348	1,349	96529493
CRI 1-25	1.5	1736	96533349	1,533	96530621
CRI 1-27	1.5	1831	96533350	1,628	96530622
CRI 1-30	1.5	1934	96533352	1,732	96530623
CRI 1-33	2.2	2168	96556933	1,947	96530624
CRI 1-36	2.2	POA	96533354	2,048	96530625

REMEMBER : PUMPS with CA Bases normally need 2x 2 Bolt Oval Flanges - see page 45

ELECTRIC MOTOR

380-415V 3ph 50Hz

220-240V 1ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

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

Pipe Connections

All CRI 1s, 1, 3 & 5 pumps are supplied **without** pipe connections.

Two bolt oval pipe flanges and DIN counter flanges must be ordered as separate items.

All CRI flanged models (FGJ) are DIN flanged as standard and are supplied **without** the counter flanges to EN 1092-2 1997 (BS4504 : 1989).

Flanged pump casings (FGJ) are to the following standard.

CRI 1s/1/3 : DN25/32 PN25

CRI 5 : DN32 PN25

Please see page 44/45 for pipe connection accessories and list prices.



CATEGORY 2 - CRI 3 and CRI 5 304 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	£	Product Code	£	Product Code
		230V 1ph 50Hz		400V 3ph 50Hz	
		A CA A V HQQV		A CA A V HQQV	
CRI 3-2	0.37	703	96533184	667	96516743
CRI 3-3	0.37	734	96533208	698	96516744
CRI 3-4	0.37	767	96533210	732	96516745
CRI 3-5	0.37	800	96533212	765	96516746
CRI 3-6	0.55	827	96533214	775	96516747
CRI 3-7	0.55	864	96533215	812	96516748
CRI 3-8	0.75	946	96533216	853	96516749
CRI 3-9	0.75	984	96533217	891	96516750
CRI 3-10	0.75	1,021	96533218	928	96516751
CRI 3-11	1.1	1,134	96533219	984	96516752
CRI 3-12	1.1	1,176	96533220	1,025	96516753
CRI 3-13	1.1	1,217	96533221	1,066	96516754
CRI 3-15	1.1	1,300	96533222	1,149	96516756
		A FGJ A V HQQV		A FGJ A V HQQV	
CRI 3-17	1.5	1,554	96533223	1,351	96527929
CRI 3-19	1.5	1,635	96533224	1,432	96527930
CRI 3-21	2.2	1,707	96533225	1,486	96527931
CRI 3-23	2.2	1,789	96533226	1,568	96527941
CRI 3-25	2.2	1,872	96533227	1,651	96527942
CRI 3-27	2.2	1,955	96533228	1,734	96527943
CRI 3-29	2.2	2,037	96533229	1,816	96527944
CRI 3-31	3	-	-	1,856	96527945
CRI 3-33	3	-	-	1,957	96527948
CRI 3-36	3	-	-	2,058	96527949
		A CA A V HQQV		A CA A V HQQV	
CRI 5-2	0.37	791	96533277	756	96517120
CRI 5-3	0.55	845	96533278	793	96517121
CRI 5-4	0.55	901	96533279	849	96517122
CRI 5-5	0.75	1,010	96533280	917	96522106
CRI 5-6	1.1	1,093	96533281	942	96517123
CRI 5-7	1.1	1,126	96533282	975	96517124
CRI 5-8	1.1	1,161	96533283	1,010	96517125
CRI 5-9	1.5	1,345	96533284	1,143	96517126
CRI 5-10	1.5	1,389	96533285	1,186	96517127
CRI 5-11	2.2	1,511	96533286	1,289	96517128
CRI 5-12	2.2	1,544	96533287	1,322	96517129
		A FGJ A V HQQV		A FGJ A V HQQV	
CRI 5-13	2.2	1,626	96533288	1,405	96528032
CRI 5-14	2.2	1,659	96533289	1,438	96528033
CRI 5-15	2.2	1,694	96533290	1,473	96528034
CRI 5-16	2.2	1,727	96533291	1,506	96528035
CRI 5-18	3	-	-	1,678	96528036
CRI 5-20	3	-	-	1,748	96528037
CRI 5-22	4	-	-	1,837	96528038
CRI 5-24	4	-	-	1,905	96528039
CRI 5-26	4	-	-	1,984	96528040
CRI 5-29	4	-	-	2,087	96528041
CRI 5-32	5.5	-	-	2,362	96528043
CRI 5-36	5.5	-	-	2,498	96528044

REMEMBER : PUMPS with CA Bases normally need 2x 2 Bolt Oval Flanges - see page 45

ELECTRIC MOTOR

380-415V 3ph 50Hz

220-240V 1ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

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

Pipe Connections

All CRI 1s, 1, 3 & 5 pumps are supplied **without** pipe connections.

Two bolt oval pipe flanges and DIN counter flanges must be ordered as separate items.

All CRI flanged models (FGJ) are DIN flanged as standard and are supplied without the counter flanges to EN 1092-2 1997 [was BS4504 : 1989]

Flanged pump casings (FGJ) are to the following standard.

CRI 1s/1/3: DN25/32 PN25

CRI 5: DN32 PN25

Please see page 44/45 for pipe connection accessories and list prices.



CATEGORY 2 - CRI 10, CRI 15, and CRI 20 304 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz
COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

	P2	£	Product Code	£	Product Code
Model	kW		230V 1ph 50Hz		400V 3ph 50Hz
			A CA A V HQQV		A CA A V HQQV
CRI 10-1	0.37	1,099	96500939	1,064	96501149
CRI 10-2	0.75	1,196	96500940	1,103	96501150
CRI 10-3	1.1	1,422	96500941	1,271	96501151
CRI 10-4	1.5	1,618	96500942	1,415	96501152
CRI 10-5	2.2	1,752	96500943	1,531	96501153
CRI 10-6	2.2	1,831	96500944	1,610	96501154
CRI 10-7	3	-	-	1,740	96501155
CRI 10-8	3	-	-	1,816	96501156
CRI 10-9	3	-	-	1,893	96501157
					A FGJ A V HQQV
CRI 10-10	4	-	-	2,236	96501343
CRI 10-12	4	-	-	2,389	96501344
CRI 10-14	5.5	-	-	2,773	96501345
CRI 10-16	5.5	-	-	2,928	96501346
CRI 10-18	7.5	-	-	3,207	96501347
CRI 10-20	7.5	-	-	3,358	96501348
CRI 10-22	7.5	-	-	3,511	96501349
			A FGJ A V HQQV		A FGJ A V HQQV
CRI 15-1	1.1	1,603	96501685	1,454	96501815
CRI 15-2	2.2	1,982	96501686	1,763	96501816
CRI 15-3	3	-	-	2,006	96502002
CRI 15-4	4	-	-	2,299	96502003
CRI 15-5	4	-	-	2,403	96502004
CRI 15-6	5.5	-	-	2,828	96502005
CRI 15-7	5.5	-	-	2,937	96502006
CRI 15-8	7.5	-	-	3,379	96502007
CRI 15-9	7.5	-	-	3,485	96502008
CRI 15-10	11	-	-	4,094	96502009
CRI 15-12	11	-	-	4,309	96502010
CRI 15-14	11	-	-	4,520	96502011
CRI 15-17	15	-	-	5,739	96502012
			A FGJ A V HQQV		A FGJ A V HQQV
CRI 20-1	1.1	1,591	96500314	1,442	96500436
CRI 20-2	2.2	1,974	96500315	1,755	96500437
CRI 20-3	4	-	-	2,346	96500609
CRI 20-4	5.5	-	-	2,843	96500610
CRI 20-5	5.5	-	-	2,951	96500611
CRI 20-6	7.5	-	-	3,401	96500612
CRI 20-7	7.5	-	-	3,512	96500613
CRI 20-8	11	-	-	4,348	96500614
CRI 20-10	11	-	-	4,567	96500615
CRI 20-12	15	-	-	5,546	96500616
CRI 20-14	15	-	-	5,810	96500617
CRI 20-17	18.5	-	-	6,851	96500618

REMEMBER : PUMPS with CA Bases normally need 2x 2 Bolt Oval Flanges - see page 45

ELECTRIC MOTOR

380-415V 3ph 50Hz

220-240V 1ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

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

Pipe Connections

All CRI 10/15/20 pumps are supplied **without** pipe connections.

Two bolt oval pipe flanges and DIN counter flanges must be ordered as separate items.

All CRI flanged models (FGJ) are DIN flanged as standard and are supplied without the counter flanges to EN 1092-2 1997 [was BS4504 : 1989]

Pump housing flanged to the following as standard - check PN rating.

CRI 10: DN40 --- PN16/PN25 dependant on model.

CRI 15: DN50 --- PN16/PN25 dependant on model.

CRI 20: DN50 --- PN16/PN25 dependant on model.

Please see page 44/45 for pipe connection accessories and list prices.



CATEGORY 2 - CR32 to CR64 CAST IRON/304 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
A F A V HQQV			
CR 32-1-1	1.5	1,596	96121978
CR 32-1	2.2	1,702	96121979
CR 32-2-2	3	1,960	96121980
CR 32-2	4	2,291	96122037
CR 32-3-2	5.5	2,870	96122038
CR 32-3	5.5	2,870	96122039
CR 32-4-2	7.5	3,552	96122040
CR 32-4	7.5	3,552	96122041
CR 32-5-2	11	4,457	96122042
CR 32-5	11	4,457	96122043
CR 32-6-2	11	4,701	96122044
CR 32-6	11	4,701	96122045
CR 32-7-2	15	5,527	96122046
CR 32-7	15	5,527	96122047
CR 32-8-2	15	5,767	96122048
CR 32-8	15	5,767	96122049
CR 32-9-2	18.5	6,540	96122050
CR 32-9	18.5	6,540	96122051
CR 32-10-2	18.5	6,781	96122052
CR 32-10	18.5	6,781	96122053
CR 32-11-2	22	7,597	96122054
CR 32-11	22	7,597	96122055
CR 32-12-2	22	7,848	96122056
CR 32-12	22	7,848	96122057
CR 32-13-2	30	8,836	96122058
CR 32-13	30	8,836	96122059
CR 32-14-2	30	9,076	96122060
CR 32-14	30	9,076	96122061
CR 45-1-1	3	1,875	96122771
CR 45-1	4	2,243	96122822
CR 45-2-2	5.5	2,824	96122823
CR 45-2	7.5	3,560	96122824
CR 45-3-2	11	4,492	96122825
CR 45-3	11	4,492	96122826
CR 45-4-2	15	5,570	96122827
CR 45-4	15	5,570	96122828
CR 45-5-2	18.5	6,620	96122829
CR 45-5	18.5	6,620	96122830
CR 45-6-2	22	7,506	96122831
CR 45-6	22	7,506	96122832
CR 45-7-2	30	8,180	96122833
CR 45-7	30	8,180	96122834
CR 45-8-2	30	8,446	96122835
CR 45-8	30	8,446	96122836
CR 45-9-2	30	8,712	96122837
CR 45-9	37	9,483	96122838
CR 45-10-2	37	9,728	96122839
CR 45-10	37	9,728	96122840
CR 45-11-2	45	12,632	96122841
CR 45-11	45	12,632	96122842
CR 45-12-2	45	12,922	96122843
CR 45-12	45	12,922	96122844
CR 45-13-2	45	13,210	96122845

ELECTRIC MOTOR

380-415V 3ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

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

PIPE CONNECTIONS

All Large CR models are DIN flanged as standard and are supplied without the counter flanges to EN 1092-2 1997 [was BS4504:1989]

Pump housing flanged to the following as standard - check PN rating.

CR32: DN65 --- PN16, PN25/40 dependant on model.

CR45: DN80 --- PN16, PN25/40 dependant on model.

CR64: DN100 --- PN16, PN25/40 dependant on model.

CR95: DN100 --- PN16, PN25/40 dependant on model.

CR125, CR155: DN150 --- PN16, PN25/40 dependant on model.

Please see page 44/45 for pipe connection accessories and list prices.

Model	P2 kW	£	Product Code
380-415V 3ph 50Hz			
A F A V HQQV			
CR 64-1-1	4	2,216	96123548
CR 64-1	5.5	2,882	96123549
CR 64-2-2	7.5	3,484	96123550
CR 64-2-1	11	4,047	96123551
CR 64-2	11	4,047	96123552
CR 64-3-2	15	5,371	96123553
CR 64-3-1	15	5,371	96123554
CR 64-3	18.5	6,168	96123555
CR 64-4-2	18.5	6,458	96123556
CR 64-4-1	22	7,166	96123557
CR 64-4	22	7,166	96123558
CR 64-5-2	30	7,642	96123559
CR 64-5-1	30	7,642	96123560
CR 64-5	30	7,642	96123561
CR 64-6-2	30	7,931	96123562
CR 64-6-1	37	9,338	96123563
CR 64-6	37	9,338	96123564
CR 64-7-2	37	9,626	96123565
CR 64-7-1	37	9,626	96123566
CR 64-7	45	12,693	96123567
CR 64-8-2	45	12,979	96123568
CR 64-8-1	45	12,979	96123569
A F A V HQQV			
CR 95-1-1	5.5	3,252	99141746
CR 95-1	7.5	4,061	99141747
CR 95-2-2	11	5,317	99141748
CR 95-2	15	6,623	99141749
CR 95-3-2	18.5	7,759	99141750
CR 95-3	22	8,678	99141751
CR 95-4	30	9,306	99141752
CR 95-5	37	11,360	99141753
CR 95-6	45	14,383	99141754
CR 95-7	55	17,260	99141755
CR 95-8-2	55	17,646	99141756
A F A V HQQV			
CR 125-1	11	5,317	99142581
CR 125-2-2	15	6,623	99142582
CR 125-2-1	18.5	7,759	99142633
CR 125-2	22	8,678	99142634
CR 125-3-1	30	9,306	99142636
CR 125-3	37	10,877	99142637
CR 125-4-2	37	11,360	99142638
CR 125-4	45	14,383	99142639
CR 125-5	55	17,646	99142640
A F A V HQQV			
CR 155-1-1	11	5,317	99143262
CR 155-1	15	6,623	99143263
CR 155-2-2	22	8,678	99143264
CR 155-2	30	9,306	99143265
CR 155-3-2	37	11,360	99143266
CR 155-3	45	14,383	99143267
CR 155-4-1	55	17,646	99143268



CATEGORY 2 - CRN 1s 316 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	£	Product Code	£	Product Code
Pumps with DIN Flanged Connection		230V 1ph 50Hz		400V 3ph 50Hz	
		A FGJ H E HQQE		A FGJ H E HQQE	
CRN 1s-2	0.37	POA	96532058	934	96531232
CRN 1s-3	0.37	998	96532059	963	96531233
CRN 1s-4	0.37	1,023	96532070	988	96531234
CRN 1s-5	0.37	1,052	96532071	1,017	96531235
CRN 1s-6	0.37	1,077	96532072	1,041	96496837
CRN 1s-7	0.37	1,106	96532073	1,070	96531236
CRN 1s-8	0.37	1,130	96532074	1,095	96531237
CRN 1s-9	0.37	1,157	96532075	1,122	96496836
CRN 1s-10	0.37	1,186	96532076	1,151	96531238
CRN 1s-11	0.37	1,211	96532077	1,176	96531239
CRN 1s-12	0.37	1,240	96532078	1,205	96531240
CRN 1s-13	0.37	1,265	96532079	1,230	96496838
CRN 1s-15	0.55	1,314	96532140	1,263	96531241
CRN 1s-17	0.55	1,380	96532141	1,329	96531242
CRN 1s-19	0.55	1,446	96532142	1,395	96531243
CRN 1s-21	0.75	1,599	96532143	1,506	96531244
CRN 1s-23	0.75	1,666	96532144	1,573	96531245
CRN 1s-25	0.75	1,734	96532145	1,641	96531246
CRN 1s-27	1.1	1,868	96533330	1,717	96531247
CRN 1s-30	1.1	POA	96533331	1,847	96531248
CRN 1s-33	1.1	POA	96533332	1,951	96531249
CRN 1s-36	1.1	POA	96533333	2,050	96531250
Pumps with "PJE" Compatible Connections		A P A E HQQE		A P A E HQQE	
CRN 1s-2	0.37	758	96532146	723	96516034
CRN 1s-3	0.37	787	96532147	752	96516036
CRN 1s-4	0.37	812	96532148	777	96516037
CRN 1s-5	0.37	841	96532149	806	96516039
CRN 1s-6	0.37	866	96532150	831	96516041
CRN 1s-7	0.37	895	96532151	860	96516043
CRN 1s-8	0.37	920	96532152	884	96516044
CRN 1s-9	0.37	POA	96532153	911	96516046
CRN 1s-10	0.37	975	96532154	940	96516047
CRN 1s-11	0.37	1,000	96532155	965	96516048
CRN 1s-12	0.37	1,029	96532156	994	96516050
CRN 1s-13	0.37	1,054	96532157	1,019	96516051
CRN 1s-15	0.55	1,103	96532158	1,052	96516053
CRN 1s-17	0.55	POA	96532159	1,118	96516054
CRN 1s-19	0.55	1,236	96532160	1,184	96516056
CRN 1s-21	0.75	1,389	96532161	1,296	96516058
CRN 1s-23	0.75	1,455	96532162	1,362	96516059
CRN 1s-25	0.75	1,523	96532163	1,430	96516061
CRN 1s-27	1.1	1,657	96533334	1,506	96516062
CRN 1s-30	1.1	1,787	96533335	1,637	96516064
CRN 1s-33	1.1	POA	96533336	1,740	96516066
CRN 1s-36	1.1	1,990	96533337	1,839	96516067

ELECTRIC MOTOR

380-415V 3ph 50Hz

220-240V 1ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

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

PIPE CONNECTIONS

All CRN models are supplied **without** DIN counter flanges or PJE couplings.

CRN1s DIN Flanged pumps are DN25/32 rated to PN25.

Please see page 44/45 for pipe connection accessories and list prices.

CRN FLANGED pump specification

Please note the "H" version with stainless steel base and stainless steel loose flanges is standard on FLANGED pumps only.



CATEGORY 2 - CRN 1 316 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	£	Product Code	£	Product Code
Pumps with DIN Flanged Connection		230V 1ph 50Hz		400V 3ph 50Hz	
		A FGJ H E HQQE		A FGJ H E HQQE	
CRN 1-2	0.37	969	96533054	934	96504923
CRN 1-3	0.37	998	96533057	963	96531251
CRN 1-4	0.37	1,023	96533058	988	96531252
CRN 1-5	0.37	1,052	96533060	1,017	96531253
CRN 1-6	0.37	1,077	96533068	1,041	96531254
CRN 1-7	0.37	1,106	96533070	1,070	96531255
CRN 1-8	0.55	1,139	96533072	1,087	96531256
CRN 1-9	0.55	1,159	96533075	1,108	96531257
CRN 1-10	0.55	1,203	96533077	1,151	96531258
CRN 1-11	0.55	1,240	96533079	1,188	96531259
CRN 1-12	0.75	1,320	96533083	1,227	96531308
CRN 1-13	0.75	1,360	96533085	1,267	96531481
CRN 1-15	0.75	1,440	96533087	1,347	96531482
CRN 1-17	1.1	1,583	96533092	1,432	96531483
CRN 1-19	1.1	1,661	96533098	1,511	96531485
CRN 1-21	1.1	1,742	96533099	1,591	96531486
CRN 1-23	1.1	1,820	96533100	1,670	96531488
CRN 1-25	1.5	2,042	96533101	1,839	96531510
CRN 1-27	1.5	2,120	96533102	1,918	96531512
CRN 1-30	1.5	2,238	96533103	2,035	96531514
CRN 1-33	2.2	2,488	96533106	2,267	96531516
CRN 1-36	2.2	2,606	96533107	2,385	96531519
Pumps with "PJE" Compatible Connections		A P A E HQQE		A P A E HQQE	
CRN 1-2	0.37	758	96533143	723	96516477
CRN 1-3	0.37	787	96533145	752	96516478
CRN 1-4	0.37	812	96533146	777	96516480
CRN 1-5	0.37	841	96533147	806	96516481
CRN 1-6	0.37	866	96533148	831	96516483
CRN 1-7	0.37	895	96533149	860	96516485
CRN 1-8	0.55	928	96533151	876	96516486
CRN 1-9	0.55	948	96533152	897	96516488
CRN 1-10	0.55	992	96533153	940	96516489
CRN 1-11	0.55	1,029	96533154	977	96516490
CRN 1-12	0.75	1,110	96533155	1,017	96516492
CRN 1-13	0.75	1,149	96533157	1,056	96516493
CRN 1-15	0.75	1,230	96533158	1,137	96516495
CRN 1-17	1.1	1,372	96533160	1,221	96516497
CRN 1-19	1.1	1,451	96533161	1,300	96516498
CRN 1-21	1.1	1,531	96533162	1,380	96516500
CRN 1-23	1.1	1,610	96533164	1,459	96516501
CRN 1-25	1.5	POA	96533166	1,628	96516503
CRN 1-27	1.5	1,909	96533168	1,707	96516504
CRN 1-30	1.5	2,027	96533170	1,825	96516505
CRN 1-33	2.2	2,277	96533171	2,056	96516506
CRN 1-36	2.2	2,395	96533172	2,174	96516507

ELECTRIC MOTOR

380-415V 3ph 50Hz

220-240V 1ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

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

PIPE CONNECTIONS

All CRN models are supplied **without** DIN counter flanges or PJE couplings.

CRN1 DIN Flanged pumps are DN25/32 rated to PN25.

Please see page 44/45 for pipe connection accessories and list prices.

CRN FLANGED pump specification

Please note the "H" version with stainless steel base and stainless steel loose flanges is standard on FLANGED pumps only.



CATEGORY 2 - CRN 3 316 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	£	Product Code	£	Product Code
Pumps with DIN Flanged Connection		230V 1ph 50Hz		400V 3ph 50Hz	
		A FGJ H E HQQE		A FGJ H E HQQE	
CRN 3-2	0.37	990	96533230	955	96531531
CRN 3-3	0.37	1,029	96533231	994	96531533
CRN 3-4	0.37	1,066	96533232	1,031	96531535
CRN 3-5	0.37	1,106	96533233	1,070	96531537
CRN 3-6	0.55	1,159	96533234	1,108	96531540
CRN 3-7	0.55	1,194	96533235	1,143	96531542
CRN 3-8	0.75	1,256	96533236	1,163	96531544
CRN 3-9	0.75	1,298	96533237	1,205	96531546
CRN 3-10	0.75	1,335	96533238	1,242	96531549
CRN 3-11	1.1	1,459	96533239	1,308	96531571
CRN 3-12	1.1	1,498	96533240	1,347	96531573
CRN 3-13	1.1	1,537	96533241	1,387	96522072
CRN 3-15	1.1	1,618	96533242	1,467	96531576
CRN 3-17	1.5	1,845	96533243	1,643	96531578
CRN 3-19	1.5	1,924	96533244	1,721	96531590
CRN 3-21	2.2	1,998	96533245	1,777	96531592
CRN 3-23	2.2	2,077	96533246	1,856	96531594
CRN 3-25	2.2	2,155	96533247	1,934	96531596
CRN 3-27	2.2	2,234	96533248	2,013	96531598
CRN 3-29	2.2	2,312	96533249	2,091	96531610
CRN 3-31	3	-	-	2,197	96531612
CRN 3-33	3	-	-	2,273	96531614
CRN 3-36	3	-	-	2,393	96531616
Pumps with "PJE" Compatible Connections		A P A E HQQE		A P A E HQQE	
CRN 3-2	0.37	779	96533250	744	96516897
CRN 3-3	0.37	818	96533251	783	96484041
CRN 3-4	0.37	855	96496701	820	96516898
CRN 3-5	0.37	895	96533252	860	96516899
CRN 3-6	0.55	948	96533253	897	96516900
CRN 3-7	0.55	984	96533254	932	96493543
CRN 3-8	0.75	1,046	96533255	953	96516901
CRN 3-9	0.75	1,087	96533256	994	96516902
CRN 3-10	0.75	1,124	96533257	1,031	96499188
CRN 3-11	1.1	1,248	96533258	1,097	96516903
CRN 3-12	1.1	1,287	96533259	1,137	96516904
CRN 3-13	1.1	1,327	96533260	1,176	96516905
CRN 3-15	1.1	1,407	96533261	1,256	96516906
CRN 3-17	1.5	1,635	96533262	1,432	96505111
CRN 3-19	1.5	1,713	96533263	1,511	96516907
CRN 3-21	2.2	1,787	96533264	1,566	96516908
CRN 3-23	2.2	1,866	96533265	1,645	96516909
CRN 3-25	2.2	1,944	96533266	1,723	96516910
CRN 3-27	2.2	2,023	96533267	1,802	96516911
CRN 3-29	2.2	2,102	96533268	1,880	96516912
CRN 3-31	3	-	-	1,986	96516913
CRN 3-33	3	-	-	2,062	96516914
CRN 3-36	3	-	-	2,182	96516915

ELECTRIC MOTOR

380-415V 3ph 50Hz

220-240V 1ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

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

PIPE CONNECTIONS

All CRN models are supplied **without** DIN counter flanges or PJE couplings.

CRN3 DIN Flanged pumps are DN25 rated to PN25.

Please see page 44/45 for pipe connection accessories and list prices.

CRN FLANGED pump specification

Please note the "H" version with stainless steel base and stainless steel loose flanges is standard on FLANGED pumps only.



CATEGORY 2 - CRN 5 316 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	£	Product Code	£	Product Code
Pumps with DIN Flanged Connection		230V 1ph 50Hz		400V 3ph 50Hz	
		A FGJ H E HQQE		A FGJ H E HQQE	
CRN 5-2	0.37	1,064	96533292	1,029	96531650
CRN 5-3	0.55	1,116	96533293	1,064	96531651
CRN 5-4	0.55	1,180	96533294	1,128	96531652
CRN 5-5	0.75	1,300	96533295	1,207	96531653
CRN 5-6	1.1	1,374	96533296	1,223	96531654
CRN 5-7	1.1	1,415	96533297	1,265	96531655
CRN 5-8	1.1	1,455	96533298	1,304	96531656
CRN 5-9	1.5	1,686	96533299	1,484	96531657
CRN 5-10	1.5	1,725	96533300	1,523	96531658
CRN 5-11	2.2	1,872	96533301	1,651	96531659
CRN 5-12	2.2	1,911	96533302	1,690	96531670
CRN 5-13	2.2	1,951	96533303	1,730	96531671
CRN 5-14	2.2	1,990	96533304	1,769	96531672
CRN 5-15	2.2	2,029	96533305	1,808	96531673
CRN 5-16	2.2	2,068	96533306	1,847	96531674
CRN 5-18	3	-	-	2,033	96531675
CRN 5-20	3	-	-	2,112	96531676
CRN 5-22	4	-	-	2,178	96531677
CRN 5-24	4	-	-	2,254	96531678
CRN 5-26	4	-	-	2,333	96531679
CRN 5-29	4	-	-	2,453	96531680
CRN 5-32	5.5	-	-	2,765	96531681
CRN 5-36	5.5	-	-	2,922	96531682
Pumps with "PJE" Compatible Connections		A P A E HQQE		A P A E HQQE	
CRN 5-2	0.37	853	96533307	818	96517239
CRN 5-3	0.55	905	96533308	853	96517240
CRN 5-4	0.55	969	96533309	917	96517241
CRN 5-5	0.75	1,089	96533310	996	96517242
CRN 5-6	1.1	1,163	96533311	1,013	96517243
CRN 5-7	1.1	1,205	96533312	1,054	96517244
CRN 5-8	1.1	1,244	96533313	1,093	96517245
CRN 5-9	1.5	1,475	96533314	1,273	96517246
CRN 5-10	1.5	1,515	96533315	1,312	96492985
CRN 5-11	2.2	1,661	96533316	1,440	96517247
CRN 5-12	2.2	1,701	96533317	1,480	96517248
CRN 5-13	2.2	1,740	96533318	1,519	96517249
CRN 5-14	2.2	1,779	96533319	1,558	96517250
CRN 5-15	2.2	1,818	96533320	1,597	96517251
CRN 5-16	2.2	1,858	96533321	1,637	96517252
CRN 5-18	3	-	-	1,823	96517253
CRN 5-20	3	-	-	1,901	96517254
CRN 5-22	4	-	-	1,967	96513490
CRN 5-24	4	-	-	2,044	96513491
CRN 5-26	4	-	-	2,122	96513492
CRN 5-29	4	-	-	2,242	96513493
CRN 5-32	5.5	-	-	2,554	96513494
CRN 5-36	5.5	-	-	2,711	96513495

ELECTRIC MOTOR

380-415V 3ph 50Hz

220-240V 1ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

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

PIPE CONNECTIONS

All CRN models are supplied **without** DIN counter flanges or PJE couplings.

CRN5 DIN Flanged pumps are DN32 rated to PN25.

Please see page 44/45 for pipe connection accessories and list prices.

CRN FLANGED pump specification

Please note the "H" version with stainless steel base and stainless steel loose flanges is standard on FLANGED pumps only.



CATEGORY 2 - CRN10 to CRN15 316 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	£	Product Code	£	Product Code
Pumps with "PJE" Compatible Connections		230V 1ph 50Hz		400V 3ph 50Hz	
		A P A E HQQE		A P A E HQQE	
CRN 10-1	0.37	1,174	96500897	1,139	96501040
CRN 10-2	0.75	1,310	96500898	1,217	96501041
CRN 10-3	1.1	1,542	96500899	1,391	96501042
CRN 10-4	1.5	1,703	96500900	1,500	96501043
CRN 10-5	2.2	1,860	96500901	1,639	96501044
CRN 10-6	2.2	1,969	96500902	1,748	96501045
CRN 10-7	3	-	-	1,878	96501046
CRN 10-8	3	-	-	1,978	96501047
CRN 10-9	3	-	-	2,087	96501048
CRN 10-10	4	-	-	2,362	96501281
CRN 10-12	4	-	-	2,548	96501282
CRN 10-14	5.5	-	-	2,969	96501283
CRN 10-16	5.5	-	-	3,153	96501284
CRN 10-18	7.5	-	-	3,428	96501285
CRN 10-20	7.5	-	-	3,616	96501286
CRN 10-22	7.5	-	-	3,796	96501287
Pumps with DIN Flanged Connection		A FGJ H E HQQE		A FGJ H E HQQE	
CRN 10-1	0.37	1,482	96527731	1,446	96527737
CRN 10-2	0.75	1,618	96527732	1,525	96527740
CRN 10-3	1.1	1,849	96527733	1,699	96527741
CRN 10-4	1.5	2,011	96527734	1,808	96527743
CRN 10-5	2.2	2,168	96527735	1,947	96527744
CRN 10-6	2.2	2,277	96527736	2,056	96527745
CRN 10-7	3	-	-	2,186	96527747
CRN 10-8	3	-	-	2,285	96527748
CRN 10-9	3	-	-	2,395	96527749
CRN 10-10	4	-	-	2,670	96527750
CRN 10-12	4	-	-	2,856	96527751
CRN 10-14	5.5	-	-	3,277	97509478
CRN 10-16	5.5	-	-	3,461	96527753
CRN 10-18	7.5	-	-	3,736	96527755
CRN 10-20	7.5	-	-	3,924	96527756
CRN 10-22	7.5	-	-	4,104	96527758
Pumps with "PJE" Compatible Connections		A P A E HQQE		A P A E HQQE	
CRN 15-1	1.1	1,612	96501675	1,462	96501756
CRN 15-2	2.2	1,967	96501676	1,749	96501757
CRN 15-3	3	-	-	2,006	96501758
CRN 15-4	4	-	-	2,323	96501949
CRN 15-5	4	-	-	2,452	96501950
CRN 15-6	5.5	-	-	2,912	96501951
CRN 15-7	5.5	-	-	3,045	96501952
CRN 15-8	7.5	-	-	3,532	96501953
CRN 15-9	7.5	-	-	3,665	96501954
CRN 15-10	11	-	-	4,260	96501955
CRN 15-12	11	-	-	4,524	96501956
CRN 15-14	11	-	-	4,784	96501957
CRN 15-17	15	-	-	6,123	96501958
Pumps with DIN Flanged Connection		A FGJ H E HQQE		A FGJ H E HQQE	
CRN 15-1	1.1	1,916	96527776	1,767	96527779
CRN 15-2	2.2	2,272	96527777	2,053	96527782
CRN 15-3	3	-	-	2,311	96527783
CRN 15-4	4	-	-	2,628	96527785
CRN 15-5	4	-	-	2,757	96527786
CRN 15-6	5.5	-	-	3,217	96527788
CRN 15-7	5.5	-	-	3,350	96527789
CRN 15-8	7.5	-	-	3,837	96527790
CRN 15-9	7.5	-	-	3,970	96527791
CRN 15-10	11	-	-	4,565	96527792
CRN 15-12	11	-	-	4,829	96527793
CRN 15-14	11	-	-	5,088	96527794
CRN 15-17	15	-	-	6,428	96527796

Motor specification, reference to accessories and operational details are on page 33.



CATEGORY 2 - CRN20 316 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	£	Product Code	£	Product Code
Pumps with "PJE" Compatible Connections		230V 1ph 50Hz		400V 3ph 50Hz	
		A P A E HQQE		A P A E HQQE	
CRN 20-1	1.1	1,640	96500304	1,491	96500381
CRN 20-2	2.2	2,002	96500305	1,783	96500382
CRN 20-3	4	-	-	2,501	96500559
CRN 20-4	5.5	-	-	2,970	96500560
CRN 20-5	5.5	-	-	3,105	96500561
CRN 20-6	7.5	-	-	3,604	96500562
CRN 20-7	7.5	-	-	3,739	96500563
CRN 20-8	11	-	-	4,614	96500564
CRN 20-10	11	-	-	4,880	96500565
CRN 20-12	15	-	-	5,980	96500566
CRN 20-14	15	-	-	6,246	96500567
CRN 20-17	18.5	-	-	7,416	96500568
Pumps with DIN Flanged Connection		A FGJ H E HQQE		A FGJ H E HQQE	
CRN 20-1	1.1	1,945	96527799	1,796	96527802
CRN 20-2	2.2	2,307	96527801	2,088	96527805
CRN 20-3	4.0	-	-	2,806	96527807
CRN 20-4	5.5	-	-	3,274	96527808
CRN 20-5	5.5	-	-	3,409	96527809
CRN 20-6	7.5	-	-	3,908	96527811
CRN 20-7	7.5	-	-	4,043	96527813
CRN 20-8	11	-	-	4,919	96527815
CRN 20-10	11	-	-	5,184	96527817
CRN 20-12	15	-	-	6,285	96527818
CRN 20-14	15	-	-	6,551	96527819
CRN 20-17	18.5	-	-	7,720	96527820

ELECTRIC MOTOR

380-415V 3ph 50Hz

220-240V 1ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

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

PIPE CONNECTION

All CRN models are supplied **without** DIN counter flanges or PJE Couplings.

All flanged CRN models (FGJ version) are DIN flanged as standard and are supplied without the counter flanges to EN 1092-2 1997.

Please see page 44/45 for pipe connection accessories and list prices.

Pump housing flanged to the following as standard.

CRN 10: DN 40 rated to PN 25.

CRN 15: DN 50 rated to PN 25.

CRN 20: DN 50 rated to PN 25.

CRN FLANGED pump specification

Please note the "H" version with stainless steel base and stainless steel loose flanges is standard on FLANGED pumps only.



CATEGORY 2 - CRN32, CRN45 & CRN64 316 St St VERTICAL MULTISTAGE PUMPS 50Hz**COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR**

Model	P2	£	Product Code
	kW	380-415V 3ph 50Hz	
A F H E HQQE			
CRN 32-1-1	1.5	2,781	96536094
CRN 32-1	2.2	2,924	96536114
CRN 32-2-2	3	3,189	96536115
CRN 32-2	4	3,480	96536116
CRN 32-3-2	5.5	4,120	96536119
CRN 32-3	5.5	4,120	96536130
CRN 32-4-2	7.5	4,917	96536131
CRN 32-4	7.5	4,917	96536132
CRN 32-5-2	11	5,979	96536133
CRN 32-5	11	5,979	96571672
CRN 32-6-2	11	6,244	96536136
CRN 32-6	11	6,244	96536138
CRN 32-7-2	15	7,321	96536143
CRN 32-7	15	7,321	96536145
CRN 32-8-2	15	7,575	96536146
CRN 32-8	15	7,575	96536148
CRN 32-9-2	18.5	8,515	96536150
CRN 32-9	18.5	8,515	96536152
CRN 32-10-2	18.5	8,770	96536154
CRN 32-10	18.5	8,770	96536156
CRN 32-11-2	22	9,790	96536158
CRN 32-11	22	9,790	96536159
CRN 32-12-2	22	10,043	96536160
CRN 32-12	22	10,043	96536162
CRN 32-13-2	30	11,073	96536163
CRN 32-13	30	11,073	96633659
CRN 32-14-2	30	11,338	96536377
CRN 32-14	30	11,338	96536379
A F H E HQQE			
CRN 45-1-1	3	3,189	96536405
CRN 45-1	4	3,612	96536412
CRN 45-2-2	5.5	4,193	96536416
CRN 45-2	7.5	4,917	96536421
CRN 45-3-2	11	5,991	96536423
CRN 45-3	11	5,991	96536424
CRN 45-4-2	15	7,333	96610965
CRN 45-4	15	7,333	96691398
CRN 45-5-2	18.5	8,492	96691399
CRN 45-5	18.5	8,492	96560711
CRN 45-6-2	22	9,634	96536457
CRN 45-6	22	9,634	96536458
CRN 45-7-2	30	10,637	96536459
CRN 45-7	30	10,637	96536460
CRN 45-8-2	30	10,914	96536461
CRN 45-8	30	10,914	96536462
CRN 45-9-2	30	11,191	96536463
CRN 45-9	37	12,075	96536464
CRN 45-10-2	37	12,337	96536465
CRN 45-10	37	12,337	96536466
CRN 45-11-2	45	15,588	96898225
CRN 45-11	45	15,588	96536690
CRN 45-12-2	45	15,928	96536691
CRN 45-12	45	15,928	96536692
CRN 45-13-2	45	16,264	96536693

ELECTRIC MOTOR

380-415V 3ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

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

PIPE CONNECTIONS

Large CRN models are DIN flanged as standard and supplied without the counter flanges to EN 1092-2 1997 [BS4504]

Pump housing flanged to the following as standard - check PN pressure rating.

CRN 32: DN65 --- PN16/PN25/PN40 dependant on model.

CRN 45: DN80 --- PN16/PN25/PN40 dependant on model.

CRN 64: DN100 --- PN16/PN25/PN40 dependant on model.

CRN95: DN100 --- PN16, PN25/40 dependant on model.

CRN125, CRN155: DN150 --- PN16, PN25/40 dependant on model.

Please see page 44/45 for pipe connection accessories and list prices.

Model	P2	£	Product Code
	kW	380-415V 3ph 50Hz	
A F H E HQQE			
CRN 64-1-1	4	3,688	96536483
CRN 64-1	5.5	4,284	96536484
CRN 64-2-2	7.5	5,001	96536491
CRN 64-2-1	11	5,765	96536493
CRN 64-2	11	5,765	96536497
CRN 64-3-2	15	7,200	96641864
CRN 64-3-1	15	7,200	96692772
CRN 64-3	18.5	8,079	96620760
CRN 64-4-2	18.5	8,385	96692774
CRN 64-4-1	22	9,270	96536506
CRN 64-4	22	9,270	96536508
CRN 64-5-2	30	9,960	96536510
CRN 64-5-1	30	9,960	96536512
CRN 64-5	30	9,960	96536513
CRN 64-6-2	30	10,270	96536515
CRN 64-6-1	37	11,877	96536517
CRN 64-6	37	11,877	96536524
CRN 64-7-2	37	12,156	96536529
CRN 64-7-1	37	12,156	96536530
CRN 64-7	45	15,782	96536694
CRN 64-8-2	45	16,049	96536696
CRN 64-8-1	45	16,049	96536697
A F A E HQQE			
CRN 95-1-1	5.5	4,487	99141757
CRN 95-1	7.5	5,524	99141758
CRN 95-2-2	11	7,072	99141759
CRN 95-2	15	8,809	99141760
CRN 95-3-2	18.5	9,932	99141761
CRN 95-3	22	11,108	99141762
CRN 95-4	30	12,378	99141763
CRN 95-5	37	14,201	99141764
CRN 95-6	45	17,834	99141765
CRN 95-7	55	21,373	99141766
CRN 95-8-2	55	21,881	99141767
A F A E HQQE			
CRN 125-1	11	7,179	99142641
CRN 125-2-2	15	8,941	99142642
CRN 125-2-1	18.5	10,476	99142643
CRN 125-2	22	11,716	99142644
CRN 125-3-1	30	12,564	99142645
CRN 125-3	37	14,140	99142646
CRN 125-4-2	37	14,770	99142647
CRN 125-4	45	17,979	99142648
CRN 125-5	55	22,058	99142649
CRN 125-6	75	26,725	99142651
CRN 125-7	75	27,353	99142652
CRN 125-8	90	28,958	99142653
CRN 125-9-2	90	29,588	99142654
CRN 125-9	110	33,600	99142655
CRN 125-10	110	34,228	99142657
A F A E HQQE			
CRN 155-1-1	11	7,179	99143269
CRN 155-1	15	8,941	99143270
CRN 155-2-2	22	11,716	99143271
CRN 155-2	30	12,564	99143272
CRN 155-3-2	37	14,770	99143273
CRN 155-3	45	17,979	99143274
CRN 155-4-1	55	21,704	99143275
CRN 155-5-2	75	27,353	99143276
CRN 155-5	75	27,353	99143277
CRN 155-6	90	30,328	99143279
CRN 155-7	110	33,600	99143280
CRN 155-8	110	34,228	99143281



Notes

CRIE 304 STAINLESS STEEL VARIABLE SPEED PUMPS WITHOUT SENSOR

CRIE OPERATION

Pumps with Custom Built options such as special seals and non standard configurations can be configured and priced on request by your Sales Office.

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CATEGORY 2 - CRIE1 to CRIE20

CRIE 304 STAINLESS STEEL VARIABLE SPEED PUMPS WITH SENSOR FITTED

Model	P2 kW	Transducer Range	£	Product Code	£	Product Code
			200-240V 1ph 50/60Hz		380-480/500V 3ph 50/60Hz	
			N CA A E HQQE		N CA A E HQQE	
CRIE 1-4	0.37	0 - 6 bar	1,482	98389381	1,647	98389400
CRIE 1-6	0.55	0 - 10 bar	1,597	98389382	1,767	98389401
CRIE 1-9	0.75	0 - 10 bar	1,752	98389383	1,942	98389403
CRIE 1-13	1.1	0 - 16 bar	2,044	98389384	2,252	98389404
CRIE 1-17	1.5	0 - 16 bar	2,517	98389385	2,684	98389405
CRIE 1-25	2.2	0 - 25 bar	-	-	3,211	98389406
			-	-	N FGJ A E HQQE	
CRIE 1-27	3	0 - 25 bar	-	-	3,812	99072123
			N CA A E HQQE		N CA A E HQQE	
CRIE 3-2	0.37	0 - 4 bar	1,428	98389783	1,593	98389798
CRIE 3-4	0.55	0 - 6 bar	1,525	98389784	1,694	98389799
CRIE 3-5	0.75	0 - 6 bar	1,661	98389785	1,851	98389800
CRIE 3-8	1.1	0 - 10 bar	1,872	98389786	2,081	98389801
CRIE 3-11	1.5	0 - 16 bar	2,242	98389787	2,409	98389802
CRIE 3-17	2.2	0 - 25 bar	-	-	2,955	98389804
			-	-	N FGJ A E HQQE	
CRIE 3-23	3	0 - 25 bar	-	-	3,426	99072158
CRIE 3-25	4	0 - 25 bar	-	-	4,071	99072159
			N CA A E HQQE		N CA A E HQQE	
CRIE 5-2	0.55	0 - 4 bar	1,506	98390079	1,676	98390089
CRIE 5-4	1.1	0 - 6 bar	1,730	98390080	1,938	98390090
CRIE 5-5	1.5	0 - 6 bar	2,071	98390082	2,238	98390091
CRIE 5-9	2.2	0 - 10 bar	-	-	2,742	98390092
			-	-	N FGJ A E HQQE	
CRIE 5-12	3	0 - 16 bar	-	-	3,182	99072221
CRIE 5-16	4	0 - 25 bar	-	-	3,761	99072222
CRIE 5-22	5.5	0 - 25 bar	-	-	4,509	99072223
CRIE 5-24	7.5	0 - 25 bar	-	-	5,309	99075984
			N CA A E HQQE		N CA A E HQQE	
CRIE 10-1	0.75	0 - 4 bar	1,707	98390290	1,893	98390694
CRIE 10-2	1.5	0 - 4 bar	2,186	98390291	2,349	98390296
CRIE 10-3	2.2	0 - 6 bar	-	-	2,825	98390297
CRIE 10-5	3	0 - 10 bar	-	-	3,213	99071470
CRIE 10-6	4	0 - 10 bar	-	-	3,872	99071471
CRIE 10-9	5.5	0 - 16 bar	-	-	4,701	99071802
			N FGJ A E HQQE		N FGJ A E HQQE	
CRIE 10-5	3	0 - 10 bar	-	-	3,290	99071475
CRIE 10-6	4	0 - 10 bar	-	-	3,949	99071476
CRIE 10-9	5.5	0 - 16 bar	-	-	4,777	99071808
CRIE 10-12	7.5	0 - 25 bar	-	-	5,817	99071809
CRIE 10-17	11	0 - 25 bar	-	-	7,470	99071810
			N FGJ A E HQQE		N FGJ A E HQQE	
CRIE 15-1	1.5	0 - 4 bar	2,233	98390731	2,395	98390734
CRIE 15-2	3	0 - 10 bar	-	-	3,240	99071565
CRIE 15-3	4	0 - 10 bar	-	-	3,884	99071566
CRIE 15-4	5.5	0 - 10 bar	-	-	4,628	99071568
CRIE 15-5	7.5	0 - 16 bar	-	-	5,469	99071569
CRIE 15-8	11	0 - 25 bar	-	-	7,029	99071570
CRIE 15-10	15	0 - 25 bar	-	-	8,594	96514591
CRIE 15-12	18.5	0 - 25 bar	-	-	10,346	96514592
			-	-	N FGJ A E HQQE	
CRIE 20-1	2.2	0 - 4 bar	-	-	2,890	98390786
CRIE 20-2	4	0 - 6 bar	-	-	3,925	99071694
CRIE 20-3	5.5	0 - 10 bar	-	-	4,679	99071695
CRIE 20-4	7.5	0 - 10 bar	-	-	5,530	99071696
CRIE 20-6	11	0 - 16 bar	-	-	7,107	99071698
CRIE 20-8	15	0 - 25 bar	-	-	8,696	96514717
CRIE 20-10	18.5	0 - 25 bar	-	-	10,469	96514718

CRIE OPERATION

These models have been designed for closed feedback loop variable speed control and are supplied with constant pressure transducers already fitted.

The default control mode is "constant pressure".

A pressure vessel must be fitted on the discharge pipe close to the pressure sensor and a non-return valve should be fitted to the pump suction, on all CRIE pumps where the "stop" function is activated.

REMEMBER : PUMPS with CA Bases normally need 2x 2 Bolt Oval Flanges - see page 45

CRIE Flanged models (FGJ) are DIN flanged as standard and are supplied **without** the counter flanges to EN 1092-2 1997 [was BS4504 : 1989]

Please see page 44/45 for pipe connection accessories and list prices.

ELECTRIC MOTOR

IMPORTANT

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

See Page 22 for details.

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

For all E pumps the 60Hz pump performance is the same on both 50 or 60 Hz power supply
200-240V 1ph 50/60Hz

IE5 380-500V 3ph 50/60Hz up to 11kW

380-480V 3ph 50/60Hz above 15kW

IP55 Class F insulation

CATEGORY 2 - CRE32 to CRE150

CRE CAST IRON AND 304 STAINLESS STEEL VARIABLE SPEED PUMPS - WITHOUT AND WITH SENSOR

Model	P2 kW	Transducer Range	£	Product Code	£	Product Code
			380-480/500V 3ph 50/60Hz		380-480/500V 3ph 50/60Hz	
			WITHOUT SENSOR		WITH SENSOR	
			A F A E HQQE		N F A E HQQE	
CRE 32-1-1	2.2	0 - 4 bar	2,953	98390932	3,125	98390933
CRE 32-1	3	0 - 4 bar	3,325	99071938	3,497	99071957
CRE 32-2-1	5.5	0 - 10 bar	4,906	99071942	5,078	99071958
CRE 32-2	7.5	0 - 10 bar	5,986	99071953	6,158	99071959
CRE 32-4-2	11	0 - 16 bar	7,958	99071955	8,129	99071960
CRE 32-5-2	15	0 - 16 bar	9,598	96122663	9,770	96122671
CRE 32-6	18.5	0 - 25 bar	11,375	96122664	11,547	96122672
CRE 32-7	22	0 - 25 bar	13,054	96122665	13,226	96122673
CRE 45-1-1	5.5	0 - 6 bar	4,804	99072009	4,976	99072016
CRE 45-1	7.5	0 - 6 bar	5,870	99072011	6,041	99072017
CRE 45-2-1	11	0 - 10 bar	7,729	99072014	7,900	99072019
CRE 45-2	15	0 - 10 bar	9,381	96123405	9,553	96123413
CRE 45-3	18.5	0 - 16 bar	11,197	96123406	11,369	96123414
CRE 45-4-2	22	0 - 16 bar	12,680	96123407	12,852	96123415
CRE 64-1-1	7.5	0 - 6 bar	5,751	99072057	5,923	99072061
CRE 64-1	11	0 - 6 bar	7,829	99072059	8,001	99072062
CRE 64-2-2	15	0 - 10 bar	9,162	96123994	9,334	96123999
CRE 64-2-1	18.5	0 - 10 bar	11,019	96123995	11,191	96124000
CRE 64-3-2	22	0 - 16 bar	12,304	96123996	12,475	96124001
CRE 95-1-1	11	0 - 6 bar	7,273	99264346	7,444	99264415
CRE 95-1	15	0 - 6 bar	8,915	99264358	9,087	99264416
CRE 95-2-2	18.5	0 - 10 bar	10,602	99264359	10,774	99264417
CRE 95-2-1	22	0 - 10 bar	11,936	99264360	12,107	99264418
CRE 125-1-1	15	0 - 6 bar	8,829	99264393	9,001	99264451
CRE 125-1	18.5	0 - 6 bar	11,437	99264394	11,608	99264452
CRE 155-1-1	18.5	0 - 6 bar	10,950	99264409	11,122	99264463

CRE OPERATION

Pumps without sensor are designed for operation in either open or closed loop control arrangements and the default control mode is "Constant Curve/Uncontrolled".

For closed loop control either differential pressure transducers, pressure transducers or temperature transducers can be supplied as separate items; as required.

Pressure transducers are listed with their ranges in the following tables as the recommended option.

Pumps with sensor are designed for closed loop variable speed control and are supplied with factory fitted pressure transducers. The default control mode is "constant pressure".

A pressure vessel must be fitted on the discharge pipe close to the pressure sensor and a non-return valve should be fitted to the pump suction, on all CRE pumps where the "stop" function is activated.

All of the above CRE pumps are supplied with flanged pump bases requiring round DIN counter flanges as the pipework connection. Please see page 44/45 for pipe connection accessories and list prices.

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details.

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

ELECTRIC MOTOR

For all E pumps the 60Hz pump performance is the same on both 50 or 60 Hz power supply

380-500V 3ph 50/60Hz up to 11kW with IE5 efficiency

380-480V 3ph 50/60Hz above 15kW

IP55 Class F insulation

Pumps with Custom Built options such as special seals and non standard configurations can be configured and priced on request by your Sales Office.



CATEGORY 2 - CRNE1 to CRNE20

CRNE 316 STAINLESS STEEL VARIABLE SPEED PUMPS WITHOUT SENSOR

Model	P2 kW	Transducer Range	£	Product Code	£	Product Code
			200-240V 1ph 50/60Hz		380-480/500V 3ph 50/60Hz	
			A FGJ A E HQQE		A FGJ A E HQQE	
CRNE 1-4	0.37	0 - 6 bar	1,500	98389459	1,665	98389501
CRNE 1-6	0.55	0 - 10 bar	1,622	98389460	1,792	98389503
CRNE 1-9	0.75	0 - 10 bar	1,794	98389462	1,984	98389504
CRNE 1-13	1.1	0 - 16 bar	2,118	98389463	2,327	98389505
CRNE 1-17	1.5	0 - 16 bar	2,620	98389464	2,788	98389506
CRNE 1-25	2.2	0 - 25 bar	-	-	3,343	98389507
CRNE 1-27	3	0 - 25 bar	-	-	3,936	99072128
CRNE 3-2	0.37	0 - 4 bar	1,442	98389844	1,608	98389889
CRNE 3-4	0.55	0 - 6 bar	1,546	98389845	1,715	98389890
CRNE 3-5	0.75	0 - 6 bar	1,692	98389846	1,882	98389891
CRNE 3-8	1.1	0 - 10 bar	1,922	98389847	2,130	98389892
CRNE 3-11	1.5	0 - 16 bar	2,314	98389848	2,482	98389893
CRNE 3-17	2.2	0 - 25 bar	-	-	3,064	98389894
CRNE 3-23	3	0 - 25 bar	-	-	3,517	99072168
CRNE 3-25	4	0 - 25 bar	-	-	4,193	99072169
CRNE 5-2	0.55	0 - 4 bar	1,523	98390117	1,692	98390150
CRNE 5-4	1.1	0 - 6 bar	1,767	98390118	1,975	98390151
CRNE 5-5	1.5	0 - 6 bar	2,126	98390120	2,294	98390152
CRNE 5-9	2.2	0 - 10 bar	-	-	2,829	98390153
CRNE 5-12	3	0 - 16 bar	-	-	3,244	99072237
CRNE 5-16	4	0 - 25 bar	-	-	3,854	99072238
CRNE 5-22	5.5	0 - 25 bar	-	-	4,653	99072239
CRNE 5-24	7.5	0 - 25 bar	-	-	5,501	99075989
CRNE 10-1	0.75	0 - 4 bar	1,738	98390311	1,924	98390701
CRNE 10-2	1.5	0 - 4 bar	2,236	98390312	2,399	98390323
CRNE 10-3	2.2	0 - 6 bar	-	-	2,885	98390324
CRNE 10-5	3	0 - 10 bar	-	-	3,296	99071488
CRNE 10-6	4	0 - 10 bar	-	-	3,992	99071490
CRNE 10-9	5.5	0 - 16 bar	-	-	4,877	99071826
CRNE 10-12	7.5	0 - 25 bar	-	-	5,988	99071827
CRNE 10-17	11	0 - 25 bar	-	-	7,743	99071829
CRNE 15-1	1.5	0 - 4 bar	2,221	98390739	2,383	98390746
CRNE 15-2	3	0 - 10 bar	-	-	3,244	99071604
CRNE 15-3	4	0 - 10 bar	-	-	3,925	99071605
CRNE 15-4	5.5	0 - 10 bar	-	-	4,718	99071606
CRNE 15-5	7.5	0 - 16 bar	-	-	5,606	99071607
CRNE 15-8	11	0 - 25 bar	-	-	7,262	99071608
CRNE 15-10	15	0 - 25 bar	-	-	8,939	96514538
CRNE 15-12	18.5	0 - 25 bar	-	-	10,798	96514539
CRNE 20-1	2.2	0 - 4 bar	-	-	2,871	98390792
CRNE 20-2	4	0 - 6 bar	-	-	3,970	99071718
CRNE 20-3	5.5	0 - 10 bar	-	-	4,773	99071719
CRNE 20-4	7.5	0 - 10 bar	-	-	5,673	99071720
CRNE 20-6	11	0 - 16 bar	-	-	7,348	99071722
CRNE 20-8	15	0 - 25 bar	-	-	9,050	96514671
CRNE 20-10	18.5	0 - 25 bar	-	-	10,933	96514672

CRNE OPERATION

These pump models have been designed for operation in either open or closed loop control arrangements. The default control mode is "Constant Curve/Uncontrolled".

For closed loop control either differential pressure transducers, pressure transducers or temperature transducers can be supplied as separate items; as required.

Pressure transducers are listed with their ranges in the following tables as the recommended option.

A pressure vessel must be fitted on the discharge pipe close to the pressure sensor and a non-return valve should be fitted to the pump suction, on all CRNE pumps where the "stop" function is activated.

Pumps with Custom Built options such as special seals and non standard configurations can be configured and priced on request by your Sales Office.

The above CRNE flanged models (FGJ) are DIN flanged as standard and are supplied **without** the counter flanges to EN 1092-2 1997 [was BS4504 : 1989]
#N/A

ELECTRIC MOTOR

For all E pumps the 60Hz pump performance is the same on both 50 or 60 Hz power supply

200-240V 1ph 50/60Hz

IE5 380-500V 3ph 50/60Hz up to 11kW

380-480V 3ph 50/60Hz above 15kW

IP55 Class F insulation

Pumps with Custom Built options such as special seals and non standard configurations can be configured and priced on request by your Sales Office.

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details.

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



CATEGORY 2 - CRNE1 to CRNE20

CRNE 316 STAINLESS STEEL VARIABLE SPEED PUMPS WITH SENSOR

Model	P2 kW	Transducer Range	£	Product Code	£	Product Code
			200-240V 1ph 50/60Hz		380-480/500V 3ph 50/60Hz	
			N FGJ A E HQQE		N FGJ A E HQQE	
CRNE 1-4	0.37	0 - 6 bar	1,674	98389538	1,839	98389584
CRNE 1-6	0.55	0 - 10 bar	1,796	98389539	1,965	98389586
CRNE 1-9	0.75	0 - 10 bar	1,967	98389542	2,157	98389587
CRNE 1-13	1.1	0 - 16 bar	2,292	98389545	2,500	98389588
CRNE 1-17	1.5	0 - 16 bar	2,794	98389546	2,961	98389589
CRNE 1-25	2.2	0 - 25 bar	-	-	3,517	98389591
CRNE 1-27	3	0 - 25 bar	-	-	4,110	99072135
CRNE 3-2	0.37	0 - 4 bar	1,616	98389924	1,781	98389972
CRNE 3-4	0.55	0 - 6 bar	1,719	98389925	1,889	98389973
CRNE 3-5	0.75	0 - 6 bar	1,866	98389926	2,056	98389974
CRNE 3-8	1.1	0 - 10 bar	2,095	98389927	2,304	98389975
CRNE 3-11	1.5	0 - 16 bar	2,488	98389930	2,655	98389976
CRNE 3-17	2.2	0 - 25 bar	-	-	3,238	98389977
CRNE 3-23	3	0 - 25 bar	-	-	3,691	99072180
CRNE 3-25	4	0 - 25 bar	-	-	4,366	99072181
CRNE 5-2	0.55	0 - 4 bar	1,696	98390170	1,866	98390192
CRNE 5-4	1.1	0 - 6 bar	1,940	98390171	2,149	98390193
CRNE 5-5	1.5	0 - 6 bar	2,300	98390172	2,467	98390194
CRNE 5-9	2.2	0 - 10 bar	-	-	3,002	98390195
CRNE 5-12	3	0 - 16 bar	-	-	3,418	99072265
CRNE 5-16	4	0 - 25 bar	-	-	4,027	99072266
CRNE 5-22	5.5	0 - 25 bar	-	-	4,827	99072267
CRNE 5-24	7.5	0 - 25 bar	-	-	5,674	99075995
CRNE 10-1	0.75	0 - 4 bar	1,907	98390335	2,093	98390707
CRNE 10-2	1.5	0 - 4 bar	2,405	98390336	2,569	98390347
CRNE 10-3	2.2	0 - 6 bar	-	-	3,054	98390348
CRNE 10-5	3	0 - 10 bar	-	-	3,465	99071504
CRNE 10-6	4	0 - 10 bar	-	-	4,162	99071506
CRNE 10-9	5.5	0 - 16 bar	-	-	5,046	99071850
CRNE 10-12	7.5	0 - 25 bar	-	-	6,158	99071851
CRNE 10-17	11	0 - 25 bar	-	-	7,912	99071852
CRNE 15-1	1.5	0 - 4 bar	2,389	98390752	2,550	98390758
CRNE 15-2	3	0 - 10 bar	-	-	3,411	99071636
CRNE 15-3	4	0 - 10 bar	-	-	4,092	99071637
CRNE 15-4	5.5	0 - 10 bar	-	-	4,886	99071638
CRNE 15-5	7.5	0 - 16 bar	-	-	5,773	99071640
CRNE 15-8	11	0 - 25 bar	-	-	7,430	99071641
CRNE 15-10	15	0 - 25 bar	-	-	9,107	96514607
CRNE 15-12	18.5	0 - 25 bar	-	-	10,966	96514608
CRNE 20-1	2.2	0 - 4 bar	-	-	3,039	98390798
CRNE 20-2	4	0 - 6 bar	-	-	4,137	99071765
CRNE 20-3	5.5	0 - 10 bar	-	-	4,941	99071766
CRNE 20-4	7.5	0 - 10 bar	-	-	5,841	99071767
CRNE 20-6	11	0 - 16 bar	-	-	7,516	99071768
CRNE 20-8	15	0 - 25 bar	-	-	9,218	96514731
CRNE 20-10	18.5	0 - 25 bar	-	-	11,101	96514732

CRNE OPERATION

These models have been designed for closed feedback loop variable speed control and are supplied with constant pressure transducers already fitted.

The default control mode is "constant pressure".

A pressure vessel must be fitted on the discharge pipe close to the pressure sensor and a non-return valve should be fitted to the pump suction, on all CRNE pumps where the "stop" function is activated.

The above CRNE flanged models (FGJ) are DIN flanged as standard and are supplied **without** the counter flanges to EN 1092-2 1997 [was BS4504 : 1989]

Please see page 44/45 for pipe connection accessories and list prices.

ELECTRIC MOTOR

For all E pumps the 60Hz pump performance is the same on both 50 or 60 Hz power supply

200-240V 1ph 50/60Hz

IE5 380-500V 3ph 50/60Hz up to 11kW

380-480V 3ph 50/60Hz above 15kW

IP55 Class F insulation

Pumps with Custom Built options such as special seals and non standard configurations can be configured and priced on request by your Sales Office.

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details.

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



CATEGORY 2 - CRNE32 to CRNE150

CRNE 316 STAINLESS STEEL VARIABLE SPEED PUMPS - WITHOUT AND WITH SENSOR

Model	P2 kW	Transducer Range	£	Product Code	£	Product Code
			380-480/500V 3ph 50/60Hz		380-480/500V 3ph 50/60Hz	
			WITHOUT SENSOR		WITH SENSOR	
			A F A E HQQE		N F A E HQQE	
CRNE 32-1-1	2.2	0 - 4 bar	3,677	98390934	3,849	98390936
CRNE 32-1	3	0 - 4 bar	3,996	99071972	4,168	99071999
CRNE 32-2-1	5.5	0 - 10 bar	5,657	99071983	5,829	99072000
CRNE 32-2	7.5	0 - 10 bar	6,731	99071984	6,902	99072001
CRNE 32-4-2	11	0 - 16 bar	8,962	99071985	9,134	99072003
CRNE 32-5-2	15	0 - 16 bar	11,189	96122699	11,361	96122707
CRNE 32-6	18.5	0 - 25 bar	13,230	96122700	13,402	96122708
CRNE 32-7	22	0 - 25 bar	14,913	96122701	15,085	96122709
CRNE 45-1-1	5.5	0 - 6 bar	5,536	99072029	5,708	99072049
CRNE 45-1	7.5	0 - 6 bar	6,708	99072030	6,880	99072050
CRNE 45-2-1	11	0 - 10 bar	8,727	99072031	8,898	99072052
CRNE 45-2	15	0 - 10 bar	10,909	96123437	11,081	96123445
CRNE 45-3	18.5	0 - 16 bar	12,909	96123438	13,081	96123446
CRNE 45-4-2	22	0 - 16 bar	14,735	96123439	14,907	96123447
CRNE 64-1-1	7.5	0 - 6 bar	6,690	99072078	6,861	99072087
CRNE 64-1	11	0 - 6 bar	8,849	99072079	9,021	99072088
CRNE 64-2-2	15	0 - 10 bar	10,633	96124018	10,805	96124023
CRNE 64-2-1	18.5	0 - 10 bar	12,586	96124019	12,758	96124024
CRNE 64-3-2	22	0 - 16 bar	14,263	96124020	14,435	96124025
CRNE 95-1-1	11	0 - 6 bar	8,829	99264375	9,001	99264434
CRNE 95-1	15	0 - 6 bar	10,884	99264376	11,056	99264435
CRNE 95-2-2	18.5	0 - 10 bar	12,596	99264377	12,768	99264436
CRNE 95-2-1	22	0 - 10 bar	14,179	99264378	14,351	99264437
CRNE 125-1-1	15.0	0 - 6 bar	10,768	99264399	10,940	99264455
CRNE 125-1	18.5	0 - 6 bar	13,602	99264400	13,774	99264456
CRNE 155-1-1	18.5	0 - 6 bar	13,400	99264411	13,572	99264465

CRNE OPERATION

Pumps without sensor are designed for operation in either open or closed loop control arrangements and the default control mode is "Constant Curve/Uncontrolled".

For closed loop control either differential pressure transducers, pressure transducers or temperature transducers can be supplied as separate items; as required.

Pressure transducers are listed with their ranges in the following tables as the recommended option.

Pumps with sensor are designed for closed loop variable speed control and are supplied with factory fitted pressure transducers. The default control mode is "constant pressure".

A pressure vessel must be fitted on the discharge pipe close to the pressure sensor and a non-return valve should be fitted to the pump suction, on all CRE pumps where the "stop" function is activated.

All of the above CRE pumps are supplied with flanged pump bases requiring round DIN counter flanges as the pipework connection.

Please see page 44/45 for pipe connection accessories and list prices.

ELECTRIC MOTOR

For all E pumps the 60Hz pump performance is the same on both 50 or 60 Hz power supply

380-500V 3ph 50/60Hz up to 11kW with IE5 efficiency

380-480V 3ph 50/60Hz above 15kW

IP55 Class F insulation

Pumps with Custom Built options such as special seals and non standard configurations can be configured and priced on request by your Sales Office.

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details.

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



CATEGORY 2 - CRN HIGH PRESSURE PUMPS

CRNE-HS HIGH PRESSURE PUMP COMPLETE WITH FREQUENCY CONTROLLED HIGH SPEED MOTOR

CRNE HS pumps are one pump solutions to high pressure applications

Model	P2 kW	Pipework connection	£	Product Code
			HS P G I E HQQE	
CRNE 1-23 HS	4.6	PJE 42.2mm	POA	99050536
CRNE 1-23 HS	6	PJE 42.2mm	POA	99050537
CRNE 1-23 HS	7.5	PJE 42.2mm	POA	99050538
CRNE3-23 HS	4.6	PJE 42.2mm	POA	99050564
CRNE3-23 HS	6	PJE 42.2mm	POA	99050565
CRNE3-23 HS	7.5	PJE 42.2mm	POA	99050566

ELECTRIC MOTOR

380-500V 3ph 50/60Hz with IE5 efficiency

IP55 Class F insulation

For all E pumps the 50Hz pump performance is the same on 50 or 60 Hz supply

The above CRNE-HS pumps do not include sensor for closed loop control.

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details.

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

CRN-SF HIGH PRESSURE PUMP COMPLETE WITH STANDARD FIXED SPEED MOTOR

CRN SF pumps are part of high pressure dual pump systems with a standard CRN feed pump in series (sold separately).

Model	P2 kW	Pipework connection	£	Product Code
			SF P G E HQQE	
CRN 3-31 SF	3	PJE 42.2mm	3,156	96892938
CRN 5-34 SF	5.5	PJE 42.2mm	4,036	96521769
CRN 10-21 SF	7.5	PJE 60.1mm	5,452	96512200
CRN 15-16 SF	15	PJE 60.1mm	7,965	96512213
CRN 20-16 SF	18.5	PJE 60.1mm	8,435	96512261
	P2 kW	Pipework connection	£	Product Code
			SF P G I E HQQE	
CRN 32-13 SF	30	PJE 88.9mm	POA	97515507
CRN 45-12 SF	45	PJE 114mm	POA	97515508
CRN 64-7 SF	45	PJE 114mm	POA	97566802
CRN 90-5 SF	37	PJE 114mm	POA	97566776

ELECTRIC MOTOR

380-415V 3ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

PIPE CONNECTIONS

All CRN High Pressure models are supplied **without** PJE couplings.

Installation of CRN SF pumps

The smaller standard feed pump is the first pump in series.

The smaller first pump could be variable speed if required.

The large high pressure pump (SF) is installed as the second unit.



CRN-SF ACCESSORIES

PJE couplings with pipe stub	Elastomer	Material	Pipe stub	PN	No Req'd	£	Product Code
42.2mm / DN32	EPDM	316 SS	for welding	80bar	2	65	419912
60.1mm / DN50	EPDM	316 SS	for welding	70bar	2	65	339910
88.9mm / DN80	EPDM	316 SS	for welding	70bar	2	214	98144746
114mm / DN100	EPDM	316 SS	for welding	70bar	2	354	98144752
PJE couplings without pipe stub					No Req'd	£	Product Code
42.2mm					2	35	00ID1781
60.1mm					2	38	00ID2643
88.9mm					2	71	00ID5530
114mm					2	99	96483370
Connecting pipe	For pump type				No Req'd	£	Product Code
42.2mm / DN32	CRN 3/5				1	252	98895730
60.1mm / DN50	CRN 10/15/20				1	103	420138
88.9mm / DN80	CRN 32				1	312	98144757
114mm / DN100	CRN 45/64/90				1	468	98144759

CATEGORY 2 - CRT TITANIUM VERTICAL MULTISTAGE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2	230V 1ph 50Hz	
	kW	£	Product Code
A P A AUUE			
CRT2-2	0.37	2,064	96100265
CRT2-3	0.37	2,164	96100266
CRT2-4	0.55	2,375	96100267
CRT2-5	0.55	2,598	96100268
CRT2-6	0.75	2,896	96100269
CRT2-7	0.75	3,156	96100270
CRT2-9	1.1	3,504	96100271
CRT2-11	1.1	3,891	96100272
CRT2-13	1.5	4,389	96100273
CRT2-15	1.5	4,803	96100274
CRT2-18	2.2	5,327	96100275
CRT2-22	2.2	5,978	96100276

CRT4-1	0.37	2,211	96100764
CRT4-2	0.37	2,316	96100765
CRT4-3	0.55	2,539	96100766
CRT4-4	0.75	2,895	96100767
CRT4-5	1.1	3,379	96100768
CRT4-6	1.1	3,667	96100769
CRT4-7	1.5	4,215	96100770
CRT4-8	1.5	4,496	96100771
CRT4-10	2.2	5,136	96100772
CRT4-12	2.2	5,444	96100773

ELECTRIC MOTOR

380-415V 3ph 50Hz

220-240V 1ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

All List prices **exclude** Titanium EPDM PJE couplings - details are listed below.

CRTE specification

All CRT pumps are available with "E" motors.

Any enquiry for CRTE2, CRTE4, CRTE8 and CRTE16 can be configured and priced by your Sales Office.

CRT "Flanged" specification

The CRT range is now available with Universal FGJ Flanges.

The extra for a FGJ Flanged pumps are available on request.



Model	P2	400V 3ph 50Hz	
	kW	£	Product Code
A P A AUUE			
CRT2-2	0.37	2,017	96100301
CRT2-3	0.37	2,152	96100302
CRT2-4	0.55	2,308	96100303
CRT2-5	0.55	2,662	96100304
CRT2-6	0.75	2,776	96100305
CRT2-7	0.75	3,122	96100306
CRT2-9	1.1	3,307	96100307
CRT2-11	1.1	3,718	96100308
CRT2-13	1.5	4,125	96100309
CRT2-15	1.5	4,539	96100310
CRT2-18	2.2	5,040	96100311
CRT2-22	2.2	5,691	96100312
CRT2-26	3	6,326	96100313

CRT4-1	0.37	1,981	96100794
CRT4-2	0.37	2,268	96100795
CRT4-3	0.55	2,472	96100796
CRT4-4	0.75	2,773	96100797
CRT4-5	1.1	3,179	96100798
CRT4-6	1.1	3,467	96100799
CRT4-7	1.5	3,948	96100800
CRT4-8	1.5	4,229	96100801
CRT4-10	2.2	5,130	96100802
CRT4-12	2.2	5,153	96100803
CRT4-14	3	5,962	96100804
CRT4-16	3	6,270	96100805
CRT4-19	4	7,205	96100806
CRT4-22	4	7,885	96100807

CRT8-1	0.37	3,728	96108239
CRT8-2	0.75	3,897	96108240
CRT8-3	1.1	4,205	96108241
CRT8-4	1.5	4,762	96108242
CRT8-5	2.2	5,192	96108243
CRT8-6	2.2	5,494	96108244
CRT8-8	3	6,393	96108245
CRT8-10	4	7,368	96117229
CRT8-12	4	8,029	96117230
CRT8-14	5.5	9,538	96117231
CRT8-16	5.5	10,273	96117232
CRT8-18	7.5	12,087	96117233
CRT8-20	7.5	12,818	96117234

CRT16-2	2.2	4,520	96108344
CRT16-3	3	5,504	96108345
CRT16-4	4	6,404	96117246
CRT16-5	5.5	7,798	96117247
CRT16-6	5.5	8,367	96117248
CRT16-7	7.5	9,302	96117249
CRT16-8	7.5	9,955	96117250
CRT16-10	11	12,326	96117251
CRT16-12	11	13,064	96117252
CRT16-14	15	16,207	96117253
CRT16-17	18.5	17,113	96117254

PJE COUPLINGS FOR CRT PUMPS

CRT ACCESSORIES		No Req'd	£	Product Code
PJE threaded couplings with EPDM seals	CRT2 and 4	2	155	415520
	CRT8 and 16	2	194	425935
		No Req'd	£	Product Code
Viton seals are available as an optional extra.	CRT2 and 4	2	124	00ID6742
	CRT8 and 16	2	240	98977142



CATEGORY 2 - CRI/CRIE, CR/CRE AND CRN/CRNE FLANGE AND PIPE COUPLING LIST PRICES

COUNTER FLANGES FOR CR/CRI/CRN PUMPS

Pump type and size	Pump Connection	Type	Pipe connection	PN rating	Nº Reqd	Material	£	Product Code
CRI 1s/1/3	FGJ	Welding	25mm	25 bar	2	Steel St37-2	43	409902
CRI 5	FGJ	Welding	32mm	25 bar	2	Steel St37-2	58	419902
CRI 10	FGJ	Welding	40mm	25 bar	2	Steel St37-2	77	429901
CRI 15/20	FGJ	Threaded	2" BSPF	16 bar	2	Steel St37-2	84	339903
	FGJ	Welding	50mm	25 bar	2	Steel St37-2	103	339901
CR 32	F	Threaded	2" ½ BSPF	16 bar	2	Steel St37-2	58	349902
	F	Threaded	3" BSPF	16 bar	2	Steel St37-2	56	349901
	F	Welding	65 mm	40 bar	2	Steel St37-2	123	349905
CR 45	F	Threaded	3" BSPF	16 bar	2	Steel St37-2	71	350540
	F	Welding	80mm	40 bar	2	Steel St37-2	123	350542
CR 64/95	F	Threaded	4" BSPF	16 bar	2	Steel St37-2	84	369901
	F	Welding	100 mm	25 bar	2	Steel St37-2	97	369905
CR 125/155	F	Welding	150 mm	40 bar	2	Steel St37-2	287	96750476
CRI/CRN 1s/1/3	FGJ	Threaded	1" BSPF	25 bar	2	316 stainless steel	249	91200656
CRI/CRN 5	FGJ	Threaded	1" ½ BSPF	25 bar	2	316 stainless steel	156	91200657
CRI/CRN 10	FGJ	Threaded	1" ½ BSPF	16 bar	2	316 stainless steel	178	91201023
	FGJ	Welding	40 mm	40 bar	2	316 stainless steel	189	91201025
CRI/CRN 15/20	FGJ	Threaded	2" BSPF	16 bar	2	316 stainless steel	197	91201026
	FGJ	Welding	50 mm	40 bar	2	316 stainless steel	205	91201028
CRN 32	F	Threaded	2" ½ BSPF	16 bar	2	316 stainless steel	258	349910
	F	Threaded	3" BSPF	16 bar	2	316 stainless steel	258	349911
	F	Welding	65 mm	40 bar	2	316 stainless steel	258	349908
CRN 45	F	Threaded	3" BSPF	16 bar	2	316 stainless steel	387	350543
	F	Welding	80 mm	40 bar	2	316 stainless steel	387	350545
CRN 64/95	F	Threaded	4" BSPF	16 bar	2	316 stainless steel	419	369904
	F	Welding	100 mm	40 bar	2	316 stainless steel	419	369906
CRN 125/155	F	Welding	150 mm	16 bar	2	316 stainless steel	341	98052936
	F	Welding	150 mm	40 bar	2	316 stainless steel	990	96750478

NOTE - THE ABOVE COUNTER FLANGES ARE CATEGORY 4 ITEMS DISCOUNT PURPOSES.

One circular four bolt DIN counter flange kit is supplied with 4 bolts, 4 nuts and 1 gasket. [2 kits required per pump]

DIN counter flange kits are pressure rated to EN 1092-2 [ex BS4504:1989].

All counter flanges are uncoated



PJE COUPLINGS FOR CRN PUMPS

Pump type and size	Pump Connection	Type	Size	PN rating	Nº Reqd	Rubber	£	Product Code
CRN 1s/1/3/5	PJE	Threaded	1" ½ BSPF	69 bar	2	EPDM	65	419911
	PJE	Threaded	1" ½ BSPF	69 bar	2	FKM	161	419905
	PJE	Welding	32mm	69 bar	2	EPDM	65	419912
	PJE	Welding	32mm	69 bar	2	FKM	161	419904
CRN 10/15/20	PJE	Threaded	2" BSPF	69 bar	2	EPDM	65	339911
	PJE	Threaded	2" BSPF	69 bar	2	FKM	161	339918
	PJE	Welding	50 mm	69 bar	2	EPDM	65	339910
	PJE	Welding	50 mm	69 bar	2	FKM	161	339917

NOTE - THE ABOVE PJE COUPLINGS ARE CATEGORY 2 ITEMS DISCOUNT PURPOSES.

PJE pipe couplings in 316 stainless steel.

A set consists of two coupling halves (Victaulic type 77), one gasket, one pipe stub (for welding or threaded), bolts and nuts.

PJE couplings are only required on new installations. CRN 1s, 1, 3, 5, 10, 15 & 20 PJE pump replacements do not require them.



CATEGORY 2 - CRI/CRIE, CR/CRE AND CRN/CRNE FLANGE AND PIPE COUPLING LIST PRICES

FLEXICLAMP COUPLINGS FOR CRI PUMPS

Pump type and size	Pump Connection	Type	Size	PN rating	Nº Reqd	Rubber	£	Product Code
CRI 1s/1/3/5	CA	2 bolt oval	1" BSPF	16 bar	2	Klingersil	45	96449746
	CA	2 bolt oval	1" ¼ BSPF	16 bar	2	Klingersil	45	96449747
	CA	DIN Flange	DN 25/32	16 bar	2	EPDM	194	96449745
	CA	DIN Flange	DN 25/32	16 bar	2	FKM	206	96449900
CRI 10/15/20	CA	2 bolt oval	1" ½ BSPF	16 bar	2	Klingersil	61	96498728
	CA	2 bolt oval	2" BSPF	16 bar	2	Klingersil	65	96498835
	CA	DIN Flange	DN 40	16 bar	2	EPDM	135	96500263
	CA	DIN Flange	DN 40	16 bar	2	FKM	189	96500264
	CA	DIN Flange	DN 50	16 bar	2	EPDM	147	96500267
	CA	DIN Flange	DN 50	16 bar	2	FKM	POA	96500269

NOTE - THE ABOVE FLEXICLAMP COUPLINGS ARE CATEGORY 2 ITEMS DISCOUNT PURPOSES.

One 2 bolt oval flange kit contains 1 stainless steel flange, 2 bolts/nuts & 1 gasket [2 kits required for each new CRI pump].



Flexiclamp flange couplings



Bolt kits

		No Req'd	£	Product Code
Bolt kit for use replacing the CR2 with CRI 3 CA base	M10x70mm bolts, nuts, gaskets	1	52	96449748
Bolt kit for use replacing the CR4 with CRI 5 CA base	M10x70mm bolts, nuts, gaskets	1	52	96449749
Bolt kit for use replacing the CR8 with CRI 10 CA base	M12x90mm bolts, nuts, gaskets	2	45	96498727

NOTE - THE ABOVE FLEXICLAMP COUPLINGS ARE CATEGORY 2 ITEMS DISCOUNT PURPOSES.

Replacement bolt kits contain flanges, gaskets, nuts & bolts but normally only provide longer bolts and gaskets to enable the CR2, CR4 & CR8 2 bolt base pump to be replaced with the CRI CA base pump when using existing cast iron 2 bolt oval flanges.

ADAPTERS

CR 30 / CRN 30 AND CR 60 / CRN 60 ADAPTER RAILS

The adaptor rail price includes one rail (two required per pump) and are necessary if fitting a CR(N)32 pump to existing CR(N)30 foundation mountings.

	No Reqd	£	Product Code
CR/CRN 30-10 to CR/CRN 30-80 replaced by a CR/CRN32	2	69	96547329
CR/CRN 30-110/9 to CR/CRN 30-160 replaced by a CR/CRN32	2	108	96587892
CR/CRN 60-20 to CR/CRN 60-80 replaced by a CR/CRN64	2	79	96587893



CR120 / CR150 ACCESSORIES	No Reqd	£	Product Code
DN125 PN40 weld counter flanges	2	198	96750475
DN125 to DN150 adapter kit	2	431	96638169
CRN120 / CRN150 ACCESSORIES	No Reqd	£	Product Code
DN125 PN40 weld counter flanges	2	664	96750477
DN125 to DN150 adapter kit	2	1,328	96638180

NOTE - THE ABOVE ADAPTERS ARE CATEGORY 4 ITEMS DISCOUNT PURPOSES.

LIQTEC - DRY RUNNING PROTECTION

The most common cause of pump failure is dry running.

Grundfos' dry running protection device, the LiqTec, stops the pump running, via the motor's contactor starter, if there is no liquid in the vicinity of the shaft seal.

The sensor is specifically designed to be installed on the CR, CRI, CRN and MTR range of pumps where an auxiliary connection is available on the pump's top casting.

Use on single pump installations only and not on packaged sets where alternative protection is normally provided.



	£	Product Code
LiqTec with sensor and 5m of interconnection cable (200-240V)	1,013	96556429
LiqTec with sensor and 5m of interconnection cable (80-130V)	1,225	96556430
Extra 15m sensor cable kit	161	96443676

For new permanent magnet MGE motors, models H, I and J	£	Product Code
LiqTec sensor unit with 5m cable	199	99337830

NOTE - THE ABOVE LIQTEC IS A CATEGORY 2 PRODUCT FOR DISCOUNT PURPOSES.

CATEGORY 2 - CM- I 304 STAINLESS STEEL HORIZONTAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

230V 1ph 50Hz			
Model	P2 (kW) / Frame	£	Product Code
CMx-x A R I E AQQE CAAN			
CM 1-2-I	0.30 / 71	512	97514162
CM 1-3-I	0.30 / 71	561	97514439
CM 1-4-I	0.50 / 71	605	97514999
CM 1-5-I	0.50 / 71	646	97515000
CM 1-6-I	0.50 / 71	657	97515021
CM 1-7-I	0.50 / 71	739	97515023
CM 1-8-I	0.67 / 80	762	97515024
CM 1-9-I	0.67 / 80	775	97644331
CM 1-10-I	0.67 / 80	793	97644334
CM 1-11-I	0.90 / 80	865	97644335
CM 1-12-I	0.90 / 80	925	97644336
CM 1-13-I	0.90 / 80	968	97577832
CM 1-14-I	1.30 / 90	1,319	97644337

CM 3-2-I	0.30 / 71	531	96961011
CM 3-3-I	0.50 / 71	572	96961025
CM 3-4-I	0.50 / 71	610	96961045
CM 3-5-I	0.50 / 71	657	96961051
CM 3-6-I	0.67 / 80	731	97515032
CM 3-7-I	0.90 / 80	793	97515033
CM 3-8-I	0.90 / 80	845	97515034
CM 3-9-I	1.30 / 90	1,089	97569313
CM 3-10-I	1.30 / 90	1,154	97644339
CM 3-11-I	1.30 / 90	1,272	97620738
CM 3-12-I	1.30 / 90	1,308	97644340
CM 3-13-I	1.30 / 90	1,329	97621172
CM 3-14-I	1.70 / 90	1,370	97644352

CM 5-2-I	0.50 / 71	528	97515042
CM 5-3-I	0.50 / 71	610	97515044
CM 5-4-I	0.67 / 80	731	96961065
CM 5-5-I	0.90 / 80	809	96961097
CM 5-6-I	1.30 / 90	1,066	97507749
CM 5-7-I	1.30 / 90	1,177	97515047
CM 5-8-I	1.30 / 90	1,203	97515048
CM 5-9-I	1.70 / 90	1,352	97644353
CM 5-10-I	1.70 / 90	1,391	97621173
CM 5-11-I	1.70 / 90	1,468	97620739

CM 10-1-I	0.67 / 80	793	97515062
CM 10-2-I	1.30 / 90	1,058	96946004
CM 10-3-I	1.70 / 90	1,295	96946005

CM 15-1-I	1.30 / 90	1,460	97515064
CM 15-2-I	1.70 / 90	1,659	97515063

CM 25-1-I	1.70 / 90	1,599	97515065
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ELECTRIC MOTOR

380-415V 3ph 50Hz
220-240V 1ph 50Hz
IP55 Class F insulation

Pump pipe connections

CM 1 & CM3 - Both 1" BSPF
CM 5 - Suction 1"1/4 BSPF Discharge 1" BSPF
CM 10 - Both 1"1/2 BSPF
CM 15 & CM25 - Both 2" BSPF

Seal materials

AQQE seal has Sic Sic seal faces
and EPDM elastomer

Pump materials

CM x - x I pumps are 304St Steel
(EN1.4301)

Pumps with Custom Built options such as alternative seals, alternative materials
different voltage ranges etc can be configured and priced on request by your Sales Office.
Flange adaptors, PJE and Tri-Clamp connectors are available on request.

ADAPTOR BASEPLATES

For assisting with the replacement of CH, CHN and CHI units with motor frame size 71/80 only - see page 51.

400V 3ph 50Hz			
Model	P2 (kW) / Frame	£	Product Code
CMx-x A R I E AQQE FAAN			
CM 1-2-I	0.46 / 71	500	97514413
CM 1-3-I	0.46 / 71	549	97515109
CM 1-4-I	0.46 / 71	587	97515121
CM 1-5-I	0.46 / 71	628	96807014
CM 1-6-I	0.46 / 71	639	97515122
CM 1-7-I	0.65 / 71	721	97515123
CM 1-8-I	0.65 / 71	739	96976902
CM 1-9-I	0.65 / 71	752	97644332
CM 1-10-I	1.1 / 80	770	98662772
CM 1-11-I	1.1 / 80	829	98694631
CM 1-12-I	1.1 / 80	888	98694632
CM 1-13-I	1.1 / 80	932	98694633
CM 1-14-I	1.1 / 80	1,087	98694634

CM 3-2-I	0.46 / 71	518	96961023
CM 3-3-I	0.46 / 71	554	96961026
CM 3-4-I	0.46 / 71	592	96961047
CM 3-5-I	0.65 / 71	639	96961052
CM 3-6-I	0.65 / 71	708	97515126
CM 3-7-I	1.1 / 80	757	98662725
CM 3-8-I	1.1 / 80	809	98725225
CM 3-9-I	1.1 / 80	858	99080201
CM 3-10-I	1.5 / 90	922	99059802
CM 3-11-I	1.5 / 90	1,040	98694635
CM 3-12-I	1.5 / 90	1,076	99080202
CM 3-13-I	2.2 / 90	1,097	98694637
CM 3-14-I	2.2 / 90	1,118	98694638

CM 5-2-I	0.46 / 71	510	96961054
CM 5-3-I	0.65 / 71	592	96961057
CM 5-4-I	1.1 / 80	708	98798510
CM 5-5-I	1.1 / 80	773	98725313
CM 5-6-I	1.5 / 90	834	98664188
CM 5-7-I	1.5 / 90	945	98725228
CM 5-8-I	2.2 / 90	971	98717944
CM 5-9-I	2.2 / 90	1,100	98896343
CM 5-10-I	2.2 / 90	1,138	99059803
CM 5-11-I	2.2 / 90	1,216	99080204
CM 5-12-I	3 / 100	1,452	98694640
CM 5-13-I	3 / 100	1,499	98694641

CM 10-1-I	0.65 / 71	770	97515133
CM 10-2-I	1.5 / 90	827	98719394
CM 10-3-I	2.2 / 90	1,043	98693606
CM 10-4-I	3 / 100	1,424	98777053
CM 10-5-I	3 / 100	1,540	98979299
CM 10-6-I	4 / 112	1,571	99057080
CM 10-7-I	5.5 / 132	1,697	98694642
CM 10-8-I	5.5 / 132	2,022	98694643

CM 15-1-I	1.5 / 80	1,228	99087495
CM 15-2-I	2.2 / 90	1,406	99080205
CM 15-3-I	4 / 112	1,620	98669726
CM 15-4-I	5.5 / 132	1,816	98958451

CM 25-1-I	2.2 / 90	1,347	98979367
CM 25-2-I	4 / 112	1,880	98693604
CM 25-3-I	5.5 / 132	2,326	98935349
CM 25-4-I	7.5 / 132	2,696	99205260



CATEGORY 2 CM - G 316 STAINLESS STEEL HORIZONTAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

		230V 1ph 50Hz	
Model	P2 (kW) / Frame	£	Product Code
CMx-x A R G E AQQE CAAN			
CM 1-2-G	0.30 / 71	644	97516635
CM 1-3-G	0.30 / 71	713	97516636
CM 1-4-G	0.50 / 71	760	97516638
CM 1-5-G	0.50 / 71	806	97516640
CM 1-6-G	0.50 / 71	827	97516642
CM 1-7-G	0.50 / 71	894	97516644
CM 1-8-G	0.67 / 80	958	97516646
CM 1-9-G	0.67 / 80	976	97515025
CM 1-10-G	0.67 / 80	1,002	97515026
CM 1-11-G	0.90 / 80	1,087	96935421
CM 1-12-G	0.90 / 80	1,167	96935423
CM 1-13-G	0.90 / 80	1,218	96935425
CM 1-14-G	1.30 / 90	1,612	96935427

CM 3-2-G	0.30 / 71	670	96806880
CM 3-3-G	0.50 / 71	721	96806865
CM 3-4-G	0.50 / 71	770	96806889
CM 3-5-G	0.50 / 71	829	96806882
CM 3-6-G	0.67 / 80	904	97516648
CM 3-7-G	0.90 / 80	955	97516650
CM 3-8-G	0.90 / 80	1,043	97516652
CM 3-9-G	1.30 / 90	1,319	97515035
CM 3-10-G	1.30 / 90	1,401	97515036
CM 3-11-G	1.30 / 90	1,553	96935447
CM 3-12-G	1.30 / 90	1,599	96935449
CM 3-13-G	1.30 / 90	1,625	96935451
CM 3-14-G	1.70 / 90	1,671	96935453

CM 5-2-G	0.50 / 71	685	97516654
CM 5-3-G	0.50 / 71	806	97516655
CM 5-4-G	0.67 / 80	865	96806893
CM 5-5-G	0.90 / 80	1,010	96806881
CM 5-6-G	1.30 / 90	1,290	97516656
CM 5-7-G	1.30 / 90	1,432	97516657
CM 5-8-G	1.30 / 90	1,463	97516658
CM 5-9-G	1.70 / 90	1,648	97515050
CM 5-10-G	1.70 / 90	1,697	97515061
CM 5-11-G	1.70 / 90	1,798	96935475

CM 10-1-G	0.67 / 80	950	97516660
CM 10-2-G	1.30 / 90	1,301	96943217
CM 10-3-G	1.90 / 90	1,592	96943250

CM 15-1-G	1.30 / 90	1,731	97516661
CM 15-2-G	1.70 / 90	1,968	97516662

CM 25-1-G	1.70 / 90	1,854	97516666
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ELECTRIC MOTOR

380-415V 3ph 50Hz

220-240V 1ph 50Hz

IP55 Class F insulation

PIPE CONNECTIONS

CM 1 & CM3 - Both 1" BSPF

CM 5 - Suction 11/4" BSPF Discharge 1" BSPF

CM 10 - Both 11/2" BSPF

CM 15 & CM25 - Both 2" BSPF

SEAL MATERIALS

AQQE seal has Sic Sic seal faces
and EPDM elastomer

PUMP MATERIALS

CM x - x G pumps are 316St Steel
(EN1.4401)

Pumps with Custom Built options such as alternative seals, alternative materials
different voltage ranges etc can be configured and priced on request by your Sales Office.
Flange adaptors, PJE and Tri-Clamp connectors are available on request.

ADAPTOR BASEPLATES

For assisting with the replacement of CH, CHN and CHI units with motor frame size 71/80 only - see page 51.

		400V 3ph 50Hz	
Model	P2 (kW) / Frame	£	Product Code
CMx-x A R G E AQQE FAAN			
CM 1-2-G	0.46 / 71	631	97509582
CM 1-3-G	0.46 / 71	700	97516637
CM 1-4-G	0.46 / 71	742	97516639
CM 1-5-G	0.46 / 71	788	97516641
CM 1-6-G	0.46 / 71	809	97516643
CM 1-7-G	0.65 / 71	876	97516645
CM 1-8-G	0.65 / 71	935	97516647
CM 1-9-G	0.65 / 71	953	97515124
CM 1-10-G	1.1 / 80	979	98979314
CM 1-11-G	1.1 / 80	1,051	98979315
CM 1-12-G	1.1 / 80	1,131	98979317
CM 1-13-G	1.1 / 80	1,182	98680017
CM 1-14-G	1.1 / 80	1,380	98979319

CM 3-2-G	0.46 / 71	657	96806870
CM 3-3-G	0.46 / 71	703	96806871
CM 3-4-G	0.46 / 71	752	96806884
CM 3-5-G	0.65 / 71	811	96806868
CM 3-6-G	0.65 / 71	881	97516649
CM 3-7-G	1.1 / 80	919	98979427
CM 3-8-G	1.1 / 80	1,007	98979442
CM 3-9-G	1.1 / 80	1,087	99131400
CM 3-10-G	1.5 / 90	1,169	98979406
CM 3-11-G	1.5 / 90	1,321	98979407
CM 3-12-G	1.5 / 90	1,368	99093825
CM 3-13-G	2.2 / 90	1,393	98979411
CM 3-14-G	2.2 / 90	1,419	98979419

CM 5-2-G	0.46 / 71	667	96806874
CM 5-3-G	0.65 / 71	788	96806873
CM 5-4-G	1.1 / 80	842	98976437
CM 5-5-G	1.1 / 80	973	98960734
CM 5-6-G	1.5 / 90	1,058	98945987
CM 5-7-G	1.5 / 90	1,200	98668861
CM 5-8-G	2.2 / 90	1,231	98979485
CM 5-9-G	2.2 / 90	1,396	98979488
CM 5-10-G	2.2 / 90	1,445	98979445
CM 5-11-G	2.2 / 90	1,545	99131402
CM 5-12-G	3 / 100	1,844	98979448
CM 5-13-G	3 / 100	1,906	98979449

CM 10-1-G	0.65 / 71	927	96943183
CM 10-2-G	1.5 / 90	1,069	98665164
CM 10-3-G	2.2 / 90	1,339	98664185
CM 10-4-G	3 / 100	1,762	98946033
CM 10-5-G	3 / 100	1,857	98917310
CM 10-6-G	4 / 112	1,993	98979300
CM 10-7-G	5.5 / 132	2,156	98979312
CM 10-8-G	5.5 / 132	2,568	98761008

CM 15-1-G	1.5 / 80	1,499	99131455
CM 15-2-G	2.2 / 90	1,715	99131456
CM 15-3-G	4 / 112	1,980	98979347
CM 15-4-G	5.5 / 132	2,264	98979361

CM 25-1-G	2.2 / 90	1,602	98687477
CM 25-2-G	4 / 112	2,241	98880198
CM 25-3-G	5.5 / 132	2,774	98838915
CM 25-4-G	7.5 / 132	3,214	99205261



CATEGORY 2 CME - I 304 STAINLESS STEEL HORIZONTAL MULTISTAGE PUMPS 50/60Hz

COMPLETE WITH VARIABLE SPEED 3500 RPM ELECTRIC MOTOR

Model	Motor		200-240V 1ph 50/60Hz	
	Frame size	Transducer	£	Product Code
CMx-x A R I E AQQE UADN				
CME 1-2-I	71	0 - 4 bar	1,059	98394750
CME 1-3-I	71	0 - 6 bar	1,089	98394760
CME 1-4-I	71	0 - 6 bar	1,130	98394770
CME 1-5-I	80	0 - 10 bar	1,188	98394937
CME 1-6-I	80	0 - 10 bar	1,244	98394957
CME 1-7-I	80	0 - 10 bar	1,284	98394963
CME 1-8-I	80	0 - 16 bar	1,344	98394967
CME 3-2-I	71	0 - 4 bar	1,059	98394780
CME 3-3-I	80	0 - 6 bar	1,143	98394972
CME 3-4-I	80	0 - 10 bar	1,183	98394981
CME 3-5-I	80	0 - 10 bar	1,252	98394993
CME 3-6-I	90	0 - 10 bar	1,465	98395306
CME 3-7-I	90	0 - 10 bar	1,553	98395316
CME 5-2-I	80	0 - 4 bar	1,128	98395001
CME 5-3-I	80	0 - 6 bar	1,181	98395013
CME 5-4-I	90	0 - 6 bar	1,523	98395326
CME 10-1-I	80	0 - 4 bar	1,362	98394930

ELECTRIC MOTOR

380-500V 3ph 50/60Hz with IE5 efficiency

200-240V 1ph 50/60Hz with IE5 efficiency

IP55 Class F insulation

PUMP MATERIALS

CM x - x I pumps are 304St Steel (EN1.4301)

SEAL MATERIALS

AQQE seal has Sic Sic seal faces and EPDM elastomer

PIPE CONNECTIONS

CM 1 & CM3 - Both 1" BSPF

CM 5 - Suction 1"1/4BSPF Discharge 1" BSPF

CM 10 - Both 1"1/2BSPF

CM 15 & CM25 - Both 2" BSPF

CME OPERATION

These pump models have been designed for operation in either open or closed loop control arrangements. The default control mode is "Constant Curve/Uncontrolled".

For closed loop control either differential pressure transducers, pressure transducers or temperature transducers can be supplied as separate items; as required.

A pressure vessel must be fitted on the discharge pipe close to the pressure sensor and a non-return valve should be fitted to the pump suction, on all CRIE pumps where the "stop" function is activated.

Pumps with Custom Built options such as special seals and r

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details.

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

ADAPTOR BASEPLATES

For assisting with the replacement of CH, CHN and CHI units with motor frame size 71/80 only - see page 51.

Pumps with Custom Built options such as alternative seals, alternative materials different voltage ranges etc can be configured and priced on request by your Sales Office. Flange adaptors, PJE and Tri-Clamp connectors are available on request.

Model	Motor		380-500V 3ph 50/60Hz	
	Frame size	Transducer	£	Product Code
CMx-x A R I E AQQE SADN				
CME 1-2-I	71	0 - 4 bar	1,233	98394849
CME 1-3-I	71	0 - 6 bar	1,263	98394859
CME 1-4-I	71	0 - 6 bar	1,304	98394868
CME 1-5-I	80	0 - 10 bar	1,402	98395119
CME 1-6-I	80	0 - 10 bar	1,458	98395127
CME 1-7-I	80	0 - 10 bar	1,499	98395143
CME 1-8-I	80	0 - 16 bar	1,559	98395148
CME 1-9-I	90	0 - 16 bar	1,731	98395354
CME 3-2-I	71	0 - 6 bar	1,233	98394877
CME 3-3-I	80	0 - 6 bar	1,357	98395157
CME 3-4-I	80	0 - 10 bar	1,398	98395166
CME 3-5-I	80	0 - 10 bar	1,467	98395177
CME 3-6-I	90	0 - 10 bar	1,637	98395359
CME 3-7-I	90	0 - 16 bar	1,725	98395366
CME 3-8-I	90	0 - 16 bar	2,025	98396708
CME 3-9-I	90	0 - 16 bar	2,058	98396713
CME 5-2-I	80	0 - 4 bar	1,342	98395195
CME 5-3-I	80	0 - 6 bar	1,396	98395207
CME 5-4-I	90	0 - 10 bar	1,695	98395373
CME 5-5-I	90	0 - 10 bar	2,010	98396719
CME 5-6-I	90	0 - 10 bar	2,064	98396729
CME 5-7-I	100	0 - 16 bar	2,304	99077754
CME 5-8-I	100	0 - 16 bar	2,498	99073792
CME 10-1-I	80	0 - 4 bar	1,576	98395109
CME 10-2-I	90	0 - 6 bar	2,030	98396267
CME 10-3-I	112	0 - 10 bar	2,794	99077759
CME 10-4-I	132	0 - 16 bar	3,181	99077760
CME 10-5-I	132	0 - 16 bar	3,280	99073816
CME 15-1-I	90	0 - 4 bar	2,285	98396593
CME 15-2-I	112	0 - 6 bar	3,039	99077762
CME 15-3-I	132	0 - 10 bar	3,847	99077764
CME 25-1-I	100	0 - 4 bar	2,874	99077766
CME 25-2-I	132	0 - 6 bar	4,175	99077768



CATEGORY 2 CME - G 316 STAINLESS STEEL HORIZONTAL MULTISTAGE PUMPS 50/60Hz

COMPLETE WITH VARIABLE SPEED 3500 RPM ELECTRIC MOTOR

Model	Motor		200-240V 1ph 50/60Hz	
	Frame size	Transducer	£	Product Code
CMx-x A R G E AQQE UADN				
CME 1-2-G	71	0 - 4 bar	1,168	98394748
CME 1-3-G	71	0 - 6 bar	1,228	98394758
CME 1-4-G	71	0 - 6 bar	1,284	98394768
CME 1-5-G	80	0 - 10 bar	1,344	98394935
CME 1-6-G	80	0 - 10 bar	1,372	98394954
CME 1-7-G	80	0 - 10 bar	1,420	98394960
CME 1-8-G	80	0 - 16 bar	1,508	98394965
CME 1-9-G	90	0 - 16 bar	1,727	98395299
CME 3-2-G	71	0 - 4 bar	1,190	98394777
CME 3-3-G	80	0 - 6 bar	1,274	98394970
CME 3-4-G	80	0 - 10 bar	1,314	98394979
CME 3-5-G	80	0 - 10 bar	1,390	98394989
CME 3-6-G	90	0 - 10 bar	1,606	98395303
CME 3-7-G	90	0 - 10 bar	1,755	98395313
CME 5-2-G	80	0 - 4 bar	1,274	98395003
CME 5-3-G	80	0 - 6 bar	1,340	98395009
CME 5-4-G	90	0 - 6 bar	1,675	98395328
CME 10-1-G	80	0 - 4 bar	1,531	98394932

ELECTRIC MOTOR

380-500V 3ph 50/60Hz with IE5 efficiency

200-240V 1ph 50/60Hz with IE5 efficiency

IP55 Class F insulation

PUMP MATERIALS

CM x - x G pumps are 316 St Steel (EN1.4401)

SEAL MATERIALS

AQQE seal has Sic Sic seal faces and EPDM elastomer

PIPE CONNECTIONS

CM 1 & CM3 - Both 1" BSPF

CM 5 - Suction 1 1/4" BSPF Discharge 1" BSPF

CM 10 - Both 1 1/2" BSPF

CM 15 & CM25 - Both 2" BSPF

Pumps with Custom Built options such as alternative seals, alternative materials different voltage ranges etc can be configured and priced on request by your Sales Office. Flange adaptors, PJE and Tri-Clamp connectors are available on request.

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details.

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

ADAPTOR BASEPLATES

For assisting with the replacement of CH, CHN and CHI units with motor frame size 71/80 only - see page 51.

Model	Motor		380-500V 3ph 50/60Hz	
	Frame size	Transducer	£	Product Code
CMx-x A R G E AQQE SADN				
CME 1-2-G	71	0 - 4 bar	1,342	98394846
CME 1-3-G	71	0 - 6 bar	1,402	98394855
CME 1-4-G	71	0 - 6 bar	1,458	98394864
CME 1-5-G	80	0 - 10 bar	1,559	98395116
CME 1-6-G	80	0 - 10 bar	1,587	98395124
CME 1-7-G	80	0 - 10 bar	1,634	98395130
CME 1-8-G	80	0 - 16 bar	1,722	98395145
CME 1-9-G	90	0 - 16 bar	1,899	98395352
CME 3-2-G	71	0 - 6 bar	1,364	98394873
CME 3-3-G	80	0 - 6 bar	1,488	98395153
CME 3-4-G	80	0 - 10 bar	1,529	98395162
CME 3-5-G	80	0 - 10 bar	1,604	98395172
CME 3-6-G	90	0 - 10 bar	1,778	98395356
CME 3-7-G	90	0 - 16 bar	1,926	98395362
CME 3-8-G	90	0 - 16 bar	2,247	98396705
CME 3-9-G	90	0 - 16 bar	2,287	98396709
CME 5-2-G	80	0 - 4 bar	1,488	98395197
CME 5-3-G	80	0 - 6 bar	1,555	98395201
CME 5-4-G	90	0 - 10 bar	1,847	98395375
CME 5-5-G	90	0 - 10 bar	2,197	98396721
CME 5-6-G	90	0 - 10 bar	2,294	98396725
CME 5-7-G	100	0 - 16 bar	2,556	99176057
CME 5-8-G	100	0 - 16 bar	2,801	99176058
CME 10-1-G	80	0 - 4 bar	1,746	98395111
CME 10-2-G	90	0 - 6 bar	2,234	98396306
CME 10-3-G	112	0 - 10 bar	3,060	99176091
CME 10-4-G	132	0 - 16 bar	3,516	99176092
CME 10-5-G	132	0 - 16 bar	3,688	99176105
CME 15-1-G	90	0 - 4 bar	2,511	98396678
CME 15-2-G	112	0 - 6 bar	3,211	99176124
CME 15-3-G	132	0 - 10 bar	4,098	99176125
CME 25-1-G	100	0 - 4 bar	3,256	99176126
CME 25-2-G	132	0 - 6 bar	4,456	99176127



CATEGORY 2 CM SP - SELF-PRIMING STAINLESS STEEL HORIZONTAL MULTISTAGE PUMPS

COMPLETE STAND-ALONE PUMP

220-240V 1ph 50Hz			max suction lift: 4m		max suction lift: 8m	
Model	Motor/Frame	P2 kW	£	Product Code	£	Product Code
			CM x-x S R I E AQQE CAAN		CM x-x O R I E AQQE CAAN	
CM 1-3	MG71A	0.30	605	98482156	not available	
CM 1-4	MG71B	0.50	649	98482157	not available	
CM 1-5	MG71B	0.50	695	98482158	not available	
CM 1-6	MG71B	0.50	706	98482159	not available	
CM 3-3	MG71B	0.50	616	98482147	616	98482173
CM 3-4	MG71B	0.50	654	98482148	654	98482174
CM 3-5	MG71B	0.50	706	98482149	706	98482175
CM 3-6	MG80A	0.67	780	98482150	780	98482176
CM 5-3	MG71B	0.50	654	98482179	654	98482186
CM 5-4	MG80A	0.67	775	98482180	775	98482187
CM 5-5	MG80B	0.90	858	98482181	858	98482188
CM 5-6	MG90SA	1.30	1,115	98482182	1,115	98482189
CM 5-7	MG90SA	1.30	1,226	98482183	1,226	98482190

all pumps AQQE seal

BOOSTER PUMP COMPLETE WITH INTEGRAL PRESSURE MANAGER

220-240V 1ph 50Hz			max suction lift: 4m			max suction lift: 4m		
Model	Motor/Frame	P2 kW	Controller	£	Product Code	Controller	£	Product Code
CMB-SP 1-27	MG71A	0.30	PM1-15	631	98507558	PM2	726	98507611
CMB-SP 1-36	MG71B	0.50	PM1-15	663	98507559	PM2	765	98507612
CMB-SP 1-45	MG71B	0.50	PM1-15	700	98507560	PM2	775	98507613
CMB-SP 1-54	MG71B	0.50	PM1-22	700	98507571	PM2	837	98507614
CMB-SP 3-28	MG71B	0.50	PM1-15	579	98507566	PM2	778	98507623
CMB-SP 3-37	MG71B	0.50	PM1-15	700	98507567	PM2	811	98507624
CMB-SP 3-47	MG71B	0.50	PM1-22	775	98507575	PM2	896	98507625
CMB-SP 3-56	MG80A	0.67	PM1-22	832	98507576	PM2	963	98507626
CMB-SP 5-28	MG71B	0.50	PM1-22	758	98507582	PM2	878	98507633
CMB-SP 5-47	MG80B	0.90	PM1-22	961	98507583	PM2	1,115	98507634

CMB-SP includes:

CM self-priming pump with AVBE seal

Grundfos PM

1.5 m cable without plug

BOOSTER PUMP SET WITH SEPARATE PRESSURE MANAGER

220-240V 1ph 50Hz			max suction lift: 8m			max suction lift: 8m		
Model	Motor/Frame	P2 kW		£	Product Code		£	Product Code
CMB-SP 3-28 SET	MG71B	0.50	PM1-15	672	98507586	PM2	693	98507637
CMB-SP 3-37 SET	MG71B	0.50	PM1-15	700	98507587	PM2	729	98507638
CMB-SP 3-47 SET	MG71B	0.50	PM1-22	775	98507588	PM2	765	98507639

CMB-SP SET includes:

CM self-priming pump with AVBE seal

Grundfos PM

Special wallmount bracket for Grundfos PM

1.5 m cable with schuko plug

8m suction requires installation as shown on the databook

Pump pipe connections

CMB 1 & CMB 3 - Both 1" BSPF

CMB 5 - Suction 1"1/4 BSPF Discharge 1" BSPF

Pump materials

CM x - x I pumps are 304 St Steel (EN1.4301)

with composite syphon and base valve

Seal materials

AQQE seal has Sic Sic seal faces and EPDM elastomer

AVBE seal has Aluminium oxide (Al₂O₃) and resin impregnated carbon seal faces and EPDM elastomer

ELECTRIC MOTOR

220-240V 1ph 50Hz

IP55 Class F insulation

Note: Check documentation for recommended pipe settings to ensure self-priming effect



CM ACCESSORIES

CM/CMB-SP

	£	Product Code
Spring loaded foot valves in Cast iron	1" BSPF	82 956110
	1" 1/4 BSPF	123 956112
Cover for CM motors, frame sizes 71 and 80	76	97528743
Angled cable gland with O-ring and lock nut	POA	97842998

NOTE - ALL THE ABOVE CM-SP ACCESSORY PRICES ARE CATEGORY 4 ITEMS FOR DISCOUNT PURPOSES

CATEGORY 2 - CM and CME BOOSTERS

ALL PUMPS AND MAIN EQUIPMENT ARE WRAS APPROVED

Model	Pump build code	£	Product Code
CM BOOSTER PUMP AND PM2			
220-240V 1ph 50Hz			
CMB 1-27	I C A D C A	683	97529990
CMB 1-36	I C A D C A	722	97530009
CMB 1-45	I C A D C A	731	97530018
CMB 1-54	I C A D C A	791	97530027
CMB 3-27	I C A D C A	732	97530036
CMB 3-37	I C A D C A	764	97530045
CMB 3-46	I C A D C A	850	97530054
CMB 3-55	I C A D C A	915	97530063
CMB 5-28	I C A D C B	830	97530072
CMB 5-47	I C A D C B	1,062	97530081

ELECTRIC MOTOR

220-240V 1ph 50Hz

IP55 Class F insulation

Seal materials

AVBE seal has Ceramic/Carbon seal faces and EPDM elastomers

Pump materials

CMB pumps are 304St Steel (EN1.4301)

Pump pipe connections

CMB 1 & CMB 3 - Both 1" BSPF

CMB 5 - Suction 1"1/4 BSPF Discharge 1" BSPF

Includes 1.5m cable without plug

Max liquid temperature: 40°C



Model	Pump build code	£	Product Code
CMBE VARIABLE SPEED PACKAGE SET			
200-240V 1ph 50/60Hz			
CMBE 1-44	I U C D D A	1,274	98374679
CMBE 1-75	I U C D D A	1,427	98374680
CMBE 1-99	I U C D D A	1,555	98374691
CMBE 3-30	I U C D D A	1,378	98374692
CMBE 3-62	I U C D D A	1,531	98374693
CMBE 3-93	I U C D D A	1,685	98374694
CMBE 5-31	I U C D D B	2,079	98374695
CMBE 5-62	I U C D D B	2,233	98374696
CMBE 10-54	I U C D D C	2,489	98382190

ELECTRIC MOTOR

200-240V 1ph 50/60Hz with IE5 efficiency

IP55 Class F insulation

Seal materials

AVBE seal has Ceramic/Carbon seal faces and EPDM elastomers

Pump materials

CMBE pumps are 304 St Steel (EN1.4301)

Pump pipe connections

CMBE 1 & CMBE 3 - Both 1" BSPF

CMBE 5 - Suction 1"1/4 BSPF Discharge 1" BSPF

CMBE 10 - Suction 1"1/2 BSPF Discharge 1"1/2 BSPF

Includes 1.5m cable without plug

Max liquid temperature: 60°C



BOOSTER PACKAGE ACCESSORIES FOR USE WITH CM1/3/5 FIXED SPEED PUMPS

CONTROL OPTIONS

18L VERTICAL PRESSURE TANK ASSEMBLIES

	£	Product Code
Pressure Tank assembly	481	4618CRAA

For CM1, CM3 and CM5 pumps comprising diaphragm pressure tank, pressure switch, pressure gauge and fittings. Max water temp. 40 deg C.

	£	Product Code
1" Integral Non return Valve for installation under Pressure tank assembly (necessary extra for above set)	50	GBNR0003

PRESSURE MANAGER

WRAS Approved

1 x 220-240 V, 50/60 Hz

Model	Max current	£	Product Code
PM1 15 cut in 1.5bar, cut out at no flow.	6A	177	96848670
PM1 22 cut in 2.2bar, cut out at no flow.	6A	177	96848701
PM2 cut in variable from 1.5 to 5.5bar in steps of 0.5bar, cut out at no flow.	10A	205	96848738

Max liquid temperature: 40°C

Max ambient temperature: 50°C



	£	Product Code
Pressure tank (additional to PM2)	61	96526321

OTHER ACCESSORIES

	£	Product Code
Float level switch	127	GBPS0099
Spring loaded foot valves in Cast iron	82	956110
	123	956112

NOTE - ALL THE ABOVE CM ACCESSORY PRICES ARE CATEGORY 3 ITEMS FOR DISCOUNT PURPOSES

NOTE - ALL THE ABOVE CM ACCESSORY PRICES ARE CATEGORY 4 ITEMS FOR DISCOUNT PURPOSES

ADAPTOR BASEPLATES (For replacement of CH, CHN and CHI units with CM with motor 71/80 Frame size only)

	£	Product Code		£	Product Code
CH(N) 2 to CM 1 or CM 3	47	96960786	CHI(E) 2 to CM(E) 1 or CM(E) 3	47	96960788
CH(N) 4 to CM 3 or CM 5	47	96960786	CHI(E) 4 to CM(E) 3 or CM(E) 5	47	96960788
CH 8 to CM 10	47	96960787	CHI(E) 8 to CM(E) 10	47	96960788
CH 12 to CM 10 or CM 15	47	96960787	CHI(E) 12 to CM(E) 10 or CM(E) 15	47	96960788

NOTE - THE ABOVE CM ADAPTOR PLATE PRICES ARE CATEGORY 2 ITEMS FOR DISCOUNT PURPOSES

CATEGORY 2 - MTA FLANGED MOUNTED IMMERSIBLE PUMPS

COMPLETE WITH DIRECT COUPLED 50Hz 2900RPM ELECTRIC MOTOR

Model	P1 Watts	Pipe outlet Connections	Depth B (mm)	£	Product Code
220-240/380-440V 3ph 60Hz					A W A T
MTA 30-150	86	G 1/2"	150	196	97989170
220-240/380-415V 3ph 50Hz					A W A B
220-240/380-440V 3ph 60Hz					A W A B
MTA 30-150	86	G 1/2"	153	196	97989184
220-240/380-415V 3ph 50Hz					A W A T
220-240/380-440V 3ph 60Hz					A W A T
MTA 60-130	200	G 3/4"	125	252	97989186
MTA 60-180	200	G 3/4"	175	283	97989187
MTA 60-250	200	G 3/4"	245	314	97989188
MTA 60-350	200	G 3/4"	345	345	97989206
220-240/380-415V 3ph 50Hz					A W A B
220-240/380-440V 3ph 60Hz					A W A B
MTA 60-130	200	G 3/4"	130.5	252	97989208
MTA 60-180	200	G 3/4"	180.5	283	97989221
MTA 60-250	200	G 3/4"	250.5	314	97989231
MTA 60-350	200	G 3/4"	350.5	345	97989236
220-240/380-415V 3ph 50Hz					A W A T
220-240/380-440V 3ph 60Hz					A W A T
MTA 90-130	270	G 3/4"	128	295	97989245
MTA 90-180	270	G 3/4"	178	333	97989246
MTA 90-250	270	G 3/4"	248	371	97989248
MTA 90-350	270	G 3/4"	348	408	97989250
220-240/380-415V 3ph 50Hz					A W A B
220-240/380-440V 3ph 60Hz					A W A B
MTA 90-130	270	G 3/4"	132.5	295	97989251
MTA 90-180	270	G 3/4"	182.5	333	97989252
MTA 90-250	270	G 3/4"	252.5	371	97989254
MTA 90-350	270	G 3/4"	352.5	408	97989273
220-240/380-415V 3ph 50Hz					A W A T
220-240/380-440V 3ph 60Hz					A W A T
MTA 120-180	440	G 1"1/4	180	331	97989275
MTA 120-250	440	G 1"1/4	250	378	97989276
MTA 120-280	440	G 1"1/4	280	425	97989278
MTA 120-350	440	G 1"1/4	350	471	97989280
220-240/380-415V 3ph 50Hz					A W A B
220-240/380-440V 3ph 60Hz					A W A B
MTA 120-180	440	G 1"1/4	183	331	97989292
MTA 120-250	440	G 1"1/4	253	378	97989293
MTA 120-280	440	G 1"1/4	283	425	97989294
MTA 120-350	440	G 1"1/4	353	471	97989297
220-240/380-415V 3ph 50Hz					A W B B
220-240/380-440V 3ph 60Hz					A W B B
MTA 200-250	790	G 1"1/2	250	627	97989298
MTA 200-280	790	G 1"1/2	280	705	97989299
MTA 200-350	790	G 1"1/2	350	784	97989300
220-240/380-415V 3ph 50Hz					A W B T
220-240/380-440V 3ph 60Hz					A W B T
MTA 20H-150	95	G 1/2"	150	252	97989301
MTA 40H-180	230	G 3/4"	180	330	97989302
MTA 70H-250	281	G 3/4"	250	376	97989303
MTA 100H-280	445	G 1"	280	621	97989304

ELECTRIC MOTOR (Dual voltage/Dual frequency)

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

220-240/380-440V 3ph 60Hz

IP54 Class F insulation

All motors 750W and above are IE3 Efficiency.



CATEGORY 2 - SPK and MTH FLANGED MOUNTED IMMERSIBLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC IE3 MOTOR (0.75kW AND ABOVE)

Model	P2 kW	Pipe connections	Depth B (mm)	400V 3ph 50Hz	
				£	Product Code
				A W A AUUV	
SPK1-1/1	0.06	G 3/4" (3/4" BSPF)	140	469	39AH5001
SPK1-3/3	0.12	G 3/4" (3/4" BSPF)	182	520	39AH5103
SPK1-5/5	0.12	G 3/4" (3/4" BSPF)	224	585	39AH5205
SPK1-8/8	0.18	G 3/4" (3/4" BSPF)	287	736	39AH5308
SPK1-11/11	0.25	G 3/4" (3/4" BSPF)	350	817	39AH0411
SPK1-15/15	0.37	G 3/4" (3/4" BSPF)	434	933	39AH0515
SPK1-19/19	0.37	G 3/4" (3/4" BSPF)	518	992	39AH0619
SPK1-23/23	0.55	G 3/4" (3/4" BSPF)	602	1,165	39AH0723
SPK2-1/1	0.06	G 3/4" (3/4" BSPF)	140	469	39DH5001
SPK2-3/3	0.12	G 3/4" (3/4" BSPF)	182	582	39DH5103
SPK2-5/5	0.18	G 3/4" (3/4" BSPF)	224	634	39DH5205
SPK2-8/8	0.37	G 3/4" (3/4" BSPF)	287	752	39DH0308
SPK2-11/11	0.37	G 3/4" (3/4" BSPF)	350	817	39DH0411
SPK2-15/15	0.55	G 3/4" (3/4" BSPF)	434	933	39DH0515
SPK2-19/19	0.75	G 3/4" (3/4" BSPF)	518	992	98776571
SPK2-23/23	0.75	G 3/4" (3/4" BSPF)	602	1,165	98776573
SPK4-1/1	0.25	G 3/4" (3/4" BSPF)	140	510	39GH0001
SPK4-3/3	0.25	G 3/4" (3/4" BSPF)	182	580	39GH0103
SPK4-5/5	0.37	G 3/4" (3/4" BSPF)	224	663	39GH0205
SPK4-8/8	0.55	G 3/4" (3/4" BSPF)	287	779	39GH0308
SPK4-11/11	0.75	G 3/4" (3/4" BSPF)	350	906	98776576
SPK4-15/15	1.1	G 3/4" (3/4" BSPF)	434	1,108	98776578
SPK4-19/19	1.1	G 3/4" (3/4" BSPF)	518	1,213	98776582

ELECTRIC MOTOR

380-415V 3ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC IE3 MOTOR (0.75kW AND ABOVE)

Model	P2 kW	Pipe connections	Depth B (mm)	400V 3ph 50Hz	
				£	Product Code
				A W A AQQV	
MTH 2-3/3	0.55	Rp 3/4"	145	710	98992572
MTH 2-4/4	0.75	Rp 3/4"	163	728	98992589
MTH 2-5/5	0.75	Rp 3/4"	181	746	98992605
MTH 2-6/6	1.1	Rp 3/4"	199	764	98992621
MTH 2-7/7	1.1	Rp 3/4"	217	781	98992633
MTH 2-8/8	1.1	Rp 3/4"	235	799	98992642
MTH 2-9/9	1.1	Rp 3/4"	253	817	98992649
MTH 2-10/10	1.1	Rp 3/4"	271	835	98992652
MTH 2-11/11	1.1	Rp 3/4"	289	853	98992654
MTH 4-2/1	0.55	Rp 3/4"	145	710	98993021
MTH 4-2/2	0.55	Rp 3/4"	145	728	98993029
MTH 4-3/3	0.75	Rp 3/4"	172	746	98993037
MTH 4-4/4	1.1	Rp 3/4"	199	764	98993044
MTH 4-5/5	1.1	Rp 3/4"	226	781	98993050
MTH 4-6/6	1.1	Rp 3/4"	253	799	98993060
MTH 4-7/7	1.5	Rp 3/4"	280	1,137	98993068
MTH 4-8/8	1.5	Rp 3/4"	307	1,172	98993074

ELECTRIC MOTOR

380-415V 3ph 50Hz

IP54 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Dummy stages

All pumps listed are fully staged where the number of impellers equals the number of stages.

If dummy stages are required please contact the Sales Office where these variants can be configured and priced.



CATEGORY 2 - MTR 1s to MTR 3 CAST IRON/304 STAINLESS STEEL IMMERSIBLE PUMPS
COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC IE3 MOTOR (0.75kW AND ABOVE)

Model	P2 kW	Depth B (mm)	400V 3ph 50Hz	
			£	Product Code
A W A HUUV				
MTR 1s-2/2	0.37	160	861	96514842
MTR 1s-3/3	0.37	178	876	96514843
MTR 1s-4/4	0.37	196	891	96514844
MTR 1s-5/5	0.37	214	901	96514845
MTR 1s-6/6	0.37	232	915	96514846
MTR 1s-7/7	0.37	250	928	96514847
MTR 1s-8/8	0.37	268	943	96514848
MTR 1s-9/9	0.37	286	952	96514849
MTR 1s-10/10	0.37	304	967	96514850
MTR 1s-11/11	0.37	322	977	96514851
MTR 1s-12/12	0.37	340	992	96514853
MTR 1s-13/13	0.55	358	999	96514854
MTR 1s-15/15	0.55	394	1,051	96514855
MTR 1s-17/17	0.55	430	1,075	96514857
MTR 1s-19/19	0.55	466	1,100	96514858
MTR 1s-21/21	0.75	502	1,169	98406764
MTR 1s-22/22	0.75	520	1,181	98511194
MTR 1s-23/23	0.75	538	1,196	98511195
MTR 1s-25/25	0.75	574	1,221	98511196
MTR 1s-26/26	1.1	592	1,228	98511197
MTR 1s-27/27	1.1	610	1,277	98511198
MTR 1s-30/30	1.1	664	1,326	98511200
MTR 1s-33/33	1.1	718	1,353	98511251
MTR 1s-36/36	1.1	772	1,393	98511252
MTR 1-2/2	0.37	160	952	96514868
MTR 1-3/3	0.37	178	962	96514869
MTR 1-4/4	0.37	196	970	96514870
MTR 1-5/5	0.37	214	977	96514871
MTR 1-6/6	0.37	232	989	96514872
MTR 1-7/7	0.37	250	997	96514873
MTR 1-8/8	0.55	268	1,014	96514874
MTR 1-9/9	0.55	286	1,031	96514875
MTR 1-10/10	0.55	304	1,039	96514876
MTR 1-11/11	0.55	322	1,046	96514877
MTR 1-12/12	0.75	340	1,078	98511253
MTR 1-13/13	0.75	358	1,090	98511254
MTR 1-15/15	0.75	394	1,107	98511255
MTR 1-17/17	1.1	430	1,189	98511256
MTR 1-19/19	1.1	466	1,201	98511257
MTR 1-21/21	1.1	502	1,221	98511258
MTR 1-22/22	1.1	520	1,228	98511259
MTR 1-23/23	1.1	538	1,238	98511260
MTR 1-25/25	1.5	574	1,565	98511261
MTR 1-26/26	1.5	592	1,575	98511262
MTR 1-27/27	1.5	610	1,582	98511263
MTR 1-30/30	1.5	664	1,622	98511264
MTR 1-33/33	2.2	718	1,804	98513535
MTR 1-36/36	2.2	772	1,828	98492759
MTR 3-2/2	0.37	160	938	96514893
MTR 3-3/3	0.37	178	945	96514894
MTR 3-4/4	0.37	196	955	96514895
MTR 3-5/5	0.37	214	962	96514896
MTR 3-6/6	0.55	232	997	96514897
MTR 3-7/7	0.55	250	1,007	96514898
MTR 3-8/8	0.75	268	1,034	98511266
MTR 3-9/9	0.75	286	1,046	98511267
MTR 3-10/10	0.75	304	1,058	98511268
MTR 3-11/11	0.75	322	1,063	98511269
MTR 3-12/12	1.1	340	1,162	98511270
MTR 3-13/13	1.1	358	1,169	98511271
MTR 3-15/15	1.1	394	1,189	98511272
MTR 3-17/17	1.5	430	1,538	97946744
MTR 3-19/19	1.5	466	1,558	98494988
MTR 3-21/21	2.2	502	1,681	98511273
MTR 3-22/22	2.2	520	1,688	98511274
MTR 3-23/23	2.2	538	1,698	98511275
MTR 3-25/25	2.2	574	1,713	98511276
MTR 3-26/26	2.2	592	1,723	98509384
MTR 3-27/27	2.2	610	1,730	98494192
MTR 3-30/30	2.2	664	1,846	98511281
MTR 3-33/33	3	718	1,883	98511282
MTR 3-36/36	3	772	1,907	98511283

Pipe Connections

MTR 1s, 1 & 3: G1"1/4 (1"1/4 BSPF)

ELECTRIC MOTOR

380-415V 3ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

Dummy stages

All pumps listed are fully staged where the number of impellers equals the number of stages
If dummy stages are required please contact the Sales Office where these variants can be configured and priced.

Frequency and voltages

If 60Hz or non standard voltages are required these pumps can be sized and configured by the Sales Offices.



CATEGORY 2 - MTR 5 to MTR 10 CAST IRON/304 STAINLESS STEEL IMMERSIBLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC IE3 MOTOR (0.75kW AND ABOVE)

Model	P2 kW	Depth B (mm)	400V 3ph 50Hz	
			£	Product Code
A W A HUUV				
MTR 5-2/2	0.37	169	915	96514917
MTR 5-3/3	0.55	196	952	96514918
MTR 5-4/4	0.55	223	962	96514919
MTR 5-5/5	0.75	250	1,011	98511284
MTR 5-6/6	1.1	277	1,105	98511286
MTR 5-7/7	1.1	304	1,115	98096418
MTR 5-8/8	1.1	331	1,130	98511287
MTR 5-9/9	1.5	358	1,467	97938362
MTR 5-10/10	1.5	385	1,481	98511288
MTR 5-12/12	2.2	439	1,582	98330756
MTR 5-14/14	2.2	493	1,605	98513569
MTR 5-16/16	2.2	547	1,629	98513570
MTR 5-17/17	3	583	1,737	98513571
MTR 5-18/18	3	601	1,747	98513572
MTR 5-19/19	3	628	1,762	98513573
MTR 5-20/20	3	655	1,774	98513574
MTR 5-21/21	4	682	1,782	98513575
MTR 5-22/22	4	709	2,143	98429669
MTR 5-24/24	4	763	2,168	98513576
MTR 5-26/26	4	817	2,190	98513577
MTR 5-29/29	4	898	2,227	98513578
MTR 5-32/32	5.5	979	2,773	98513579
MTR 8-1/1	0.37	196	815	98825612
MTR 8-2/2-1	0.55	223	854	98825613
MTR 8-2/2	0.75	223	888	98825614
MTR 8-3/3-1	0.75	250	908	98825615
MTR 8-3/3	1.1	250	928	98825616
MTR 8-4/4-1	1.1	277	955	98825617
MTR 8-4/4	1.5	277	1,272	98825618
MTR 8-5/5-1	1.5	304	1,334	98825619
MTR 8-5/5	2.2	304	1,378	98825696
MTR 8-6/6-1	2.2	331	1,432	98825697
MTR 8-6/6	2.2	331	1,472	98825698
MTR 8-7/7-1	2.2	358	1,511	98825699
MTR 8-7/7	2.2	358	1,538	98825700
MTR 8-8/8-1	3	385	1,789	98825701
MTR 8-8/8	3	385	1,801	98825702
MTR 8-9/9-1	3	412	1,816	98825703
MTR 8-9/9	3	412	1,828	98825704
MTR 8-10/10-1	3	439	1,841	98825705
MTR 8-10/10	3	439	1,856	98825706
MTR 8-11/11	4	466	2,227	98825707
MTR 8-12/12	4	493	2,252	98825708
MTR 8-13/13	4	520	2,279	98825709
MTR 8-14/14	5.5	547	2,769	98825710
MTR 8-15/15	5.5	574	2,796	98825711
MTR 8-16/16	5.5	601	2,823	98825712
MTR 8-17/17	5.5	628	2,850	98825713
MTR 8-18/18	5.5	655	2,889	98825714
MTR 8-19/19	7.5	682	2,941	98825715
MTR 8-20/20	7.5	709	2,968	98825716
MTR 8-21/21	7.5	736	2,995	98825717
MTR 8-22/22	7.5	763	3,022	98825719
MTR 8-23/23	7.5	790	3,047	98825720
MTR 8-24/24	7.5	817	3,074	98825721
MTR 8-25/25	7.5	844	3,101	98825722
MTR 10-2/1	0.75	148	1,280	98511303
MTR 10-2/2	0.75	148	1,319	98511304
MTR 10-3/3	1.1	178	1,390	98511305
MTR 10-4/4	1.5	208	1,629	98511306
MTR 10-5/5	2.2	238	1,728	98513584
MTR 10-6/6	2.2	268	1,762	98513585
MTR 10-7/7	3	298	1,841	98513586
MTR 10-8/8	3	328	1,875	98513587
MTR 10-9/9	3	358	1,912	98513589
MTR 10-10/10	4	388	2,358	98513590
MTR 10-12/12	4	448	2,429	98513591
MTR 10-14/14	5.5	508	2,864	98513592
MTR 10-16/16	5.5	568	2,936	98513594
MTR 10-18/18	7.5	628	3,022	98513595
MTR 10-20/20	7.5	688	3,093	98513596
MTR 10-22/22	7.5	748	3,165	98513597

Pipe Connections

MTR 5 & 8 : G1 1/4 (1 1/4 BSPF)

MTR 10: G 2" (2" BSPF)

ELECTRIC MOTOR

380-415V 3ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above

are IE3 Efficiency.

Please see page 58 for motor retrofit details.

Dummy stages

All pumps listed are fully staged where the number of impellers equals the number of stages

If dummy stages are required please contact the Sales Office where these variants can be configured and priced.

Frequency and voltages

If 60Hz or non standard voltages are required these pumps can be sized and configured by the Sales Offices.



CATEGORY 2 - MTR 15 to MTR 32 CAST IRON/304 STAINLESS STEEL IMMERSIBLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC IE3 MOTOR

	P2	Depth B	400V 3ph 50Hz	
Model	kW	(mm)	£	Product Code
A W A HUUU				
MTR 15-2/1	1.1	178	1,383	98407083
MTR 15-2/2	2.2	178	1,580	98513599
MTR 15-3/3	3	223	1,755	98513600
MTR 15-4/4	4	268	2,070	98513601
MTR 15-5/5	4	313	2,121	98513602
MTR 15-6/6	5.5	358	2,505	98282545
MTR 15-7/7	5.5	403	2,554	98513654
MTR 15-8/8	7.5	448	2,754	98330630
MTR 15-9/9	7.5	493	2,805	98513656
MTR 15-10/10	11	538	4,201	98513657
MTR 15-12/12	11	628	4,304	98513658
MTR 15-14/14	11	718	4,410	98513659
MTR 15-16/16	15	808	5,616	98383020
MTR 15-17/17	15	853	5,667	98513660
MTR 20 -2/1	1.1	178	1,521	98511336
MTR 20 -2/2	2.2	178	1,737	98513662
MTR 20 -3/3	4	223	2,333	98513663
MTR 20 -4/4	5.5	268	2,761	98513664
MTR 20 -5/5	5.5	313	2,810	98513666
MTR 20 -6/6	7.5	358	3,032	98513667
MTR 20 -7/7	7.5	403	3,086	98513668
MTR 20 -8/8	11	448	4,745	98513669
MTR 20 -10/10	11	538	4,850	98513670
MTR 20 -12/12	15	628	6,128	98441644
MTR 20 -14/14	15	718	6,233	98513671
MTR 20 -16/16	18.5	808	7,225	98513672
MTR 20 -17/17	18.5	853	7,331	98513673
MTR 32-2/1-1	1.5	223	2,011	98511349
MTR 32-2/1	2.2	223	2,011	98513676
MTR 32-2/2-2	3	223	2,367	98513677
MTR 32-2/2	4	223	2,783	98513678
MTR 32-3/3	5.5	293	3,598	98446579
MTR 32-4/4	7.5	363	4,481	98349230
MTR 32-5/5	11	433	5,727	98513679
MTR 32-6/6	11	503	6,039	98349249
MTR 32-7/7	15	573	7,107	98513680
MTR 32-8/8	15	643	7,420	98513681
MTR 32-9/9	18.5	713	8,421	98381028
MTR 32-10/10	18.5	783	8,734	98513682
MTR 32-11/11	22	853	9,802	98513683
MTR 32-12/12	22	923	10,114	98395376
MTR 32-13/13	30	993	12,243	98513685
MTR 32-14/14	30	1063	12,551	98513686

Pipe Connections

MTR15 & 20: G 2" (2" BSPF)

MTR 32: DN65 Flanged

ELECTRIC MOTOR

380-415V 3ph 50Hz

IP55 Class F insulation

All 3 Phase motors 0.75kW and above are IE3 Efficiency.

Please see page 58 for motor retrofit details.

Dummy stages

All pumps listed are fully staged where the number of impellers equals the number of stages. If dummy stages are required please contact the Sales Office where these variants can be configured and priced.

Frequency and voltages

If 60Hz or non standard voltages are required these pumps can be sized and configured by the Sales Offices.



CATEGORY 2 - MTR 45 to MTR 64 CAST IRON/304 STAINLESS STEEL IMMERSIBLE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC IE3 MOTOR

Model	P2	Depth B	400V 3ph 50Hz	
	kW	(mm)	£	Product Code
			A F A HUUUV	
MTR 45-2/1-1	3	244	2,463	98513687
MTR 45-2/1	4	244	2,675	98513688
MTR 45-2/2-2	5.5	244	3,472	98513697
MTR 45-2/2	7.5	244	4,341	98513698
MTR 45-3/3-2	11	324	5,768	98513699
MTR 45-3/3	11	324	5,768	98513700
MTR 45-4/4-2	15	404	7,164	98513701
MTR 45-4/4	15	404	7,164	98513702
MTR 45-5/5-2	18.5	484	8,525	98513704
MTR 45-5/5	18.5	484	8,525	98513705
MTR 45-6/6-2	22	564	9,671	98513706
MTR 45-6/6	22	564	9,671	98513707
MTR 45-7/7-2	30	644	10,545	98513708
MTR 45-7/7	30	644	10,545	98513709
MTR 45-8/8-2	30	724	11,232	98513710
MTR 45-8/8	30	724	11,232	98513711
MTR 45-9/9-2	30	804	11,586	98513712
MTR 45-9/9	37	804	12,627	98513713
MTR 45-10/10-2	37	884	12,942	98513714
MTR 45-10/10	37	884	12,942	98513715
MTR 45-11/11-2	45	964	16,709	98513716
MTR 45-11/11	45	964	16,709	98513717
MTR 45-12/12-2	45	1044	17,103	98513718
MTR 45-12/12	45	1044	17,103	98513719
MTR 45-13/13-2	45	1124	17,497	98513720
MTR 64-2/1-1	4	249	2,663	98513732
MTR 64-2/1	5.5	249	3,303	98513733
MTR 64-2/2-2	7.5	249	4,203	98513735
MTR 64-2/2-1	11	249	5,202	98513736
MTR 64-2/2	11	249	5,498	98513737
MTR 64-3/3-2	15	332	6,908	98513738
MTR 64-3/3-1	15	332	6,908	98513739
MTR 64-3/3	18.5	332	7,939	98513740
MTR 64-4/4-2	18.5	414	8,333	98513742
MTR 64-4/4-1	22	414	9,231	98513743
MTR 64-4/4	22	414	9,231	98513744
MTR 64-5/5-2	30	497	9,849	98513745
MTR 64-5/5-1	30	497	9,849	98513746
MTR 64-5/5	30	497	9,849	98513747
MTR 64-6/6-2	30	579	10,247	98513748
MTR 64-6/6-1	37	579	12,137	98513749
MTR 64-6/6	37	579	12,137	98513750
MTR 64-7/7-2	37	662	12,531	98513752
MTR 64-7/7-1	37	662	12,531	98513753
MTR 64-7/7	45	662	16,677	98513754
MTR 64-8/8-2	45	744	17,071	98513755
MTR 64-8/8-1	45	744	17,071	98513756

Pipe Connections

MTR 45 & 64: DN80 Flanged

ELECTRIC MOTOR

380-415V 3ph 50Hz
IP55 Class F insulation
All 3 Phase motors 3.0kW and above
are IE3 Efficiency.

Please see page 58 for motor retrofit details.

Dummy stages

All pumps listed are fully staged where the number of impellers equals the number of stages
If dummy stages are required please contact the Sales Office where these variants can be configured and priced.

Frequency and voltages

If 60Hz or non standard voltages are required these pumps can be sized and configured by the Sales Offices.



CATEGORY 2 - MTRE HIGH SPEED FLANGED MOUNTED IMMERSIBLE PUMPS

COMPLETE WITH DIRECT COUPLED MGE VARIABLE SPEED ELECTRIC MOTOR

			380-500V 3ph 50/60Hz	
Model	P2 kW	Depth B (mm)	£	Product Code
			HS W A HUUUV	
MTRE 1s-19/19	4	466	2969	99159851
MTRE 1-19/19	5.5	466	3268	99159863
MTRE 3-19/19	7.5	466	3567	99159865

Pipe Connections

MTRE 1s/1/3: G 1"1/4 (1"1/4 BSPF)

ELECTRIC MOTOR

380-500V 3ph 50/60Hz with IE5 efficie
IP55 Class F insulation

IMPORTANT

A Grundfos GO based communication device will be required in order to commission the "E" product. See page 22 for details.
This device can be used to commissior

CATEGORY 2 - MOTOR STANDARDS, FPV PRODUCTS

MOTOR STANDARDS AND FPV PRICING

The table below generally indicates the Standard motors used in the UK for Grundfos Industrial Products.

Motor Factory Product Variants (FPV) are available for most motor variations - These include Heaters, different IP ratings and voltages etc.

If the FPV products are required please contact the Sales Office for information and pricing.

Motor Rating		LIST PRICE ADDERS			Motor Manufacturers used	
		A/C Htrs	Thermistors	IP56	CR / MTR	NB / NK
1ph	0.37-1.1 kW	FPV	FPV	FPV	MG	N/A
	1.5 - 2.2 kW	FPV	FPV	FPV	MG	N/A
3ph	0.37 - 0.75 kW	FPV	FPV	FPV	MG	MG
	1.1 kW	FPV	FPV	FPV	MG	MG
	1.5 - 2.2 kW	FPV	FPV	FPV	MG	MG
	3 kW	FPV	STANDARD	FPV	MG	MG
	4 kW	FPV	STANDARD	FPV	MG	MG
	5.5 kW	FPV	STANDARD	FPV	MG	MG
	7.5 kW	FPV	STANDARD	FPV	MG	MG
	11 kW	FPV	STANDARD	FPV	MG	MG
	15 kW	FPV	STANDARD	FPV	MG	MG
	18.5 kW	FPV	STANDARD	FPV	MG	MG/SIEMENS
	22 kW	FPV	STANDARD	FPV	MG	MG/SIEMENS
	30 kW	FPV	STANDARD	FPV	SIEMENS	SIEMENS
	37 kW	FPV	STANDARD	FPV	SIEMENS	SIEMENS
	45 kW	FPV	STANDARD	FPV	SIEMENS	SIEMENS
	55 - 90 kW	FPV	STANDARD	FPV	SIEMENS	SIEMENS
	110 - 200 kW	FPV	STANDARD	FPV	N/A	SIEMENS

MOTOR STANDARDS

230 V 1ph 50Hz, IP55, Class F insulation

A/C Heaters are usually available in 110/1/50 Hz or 230/1/50 Hz, please specify at order stage

400 V 3ph 50Hz, IP55, Class F insulation

Pump motors with Tropicalized windings, ATEX compliance, special voltages and other makes are available on request

60 Hz voltages are also available with revised pump selections.

Note 1 : IP56 for outdoor use can only be provided by Siemens motors on extended lead times.

Note 2 : The Heaters and/or Thermistors need to be configured by the Sales Office to create a new pump part number.

CUSTOM BUILT PRODUCTS - CR, CRI, CRN MULTISTAGE PUMPS

In our Custom Built product range we are able to offer pumps to fulfil many alternative applications.

We list some as follows :

- Group II Category 2G and 3G ATEX pumps for ATEX Zone 1 and Zone 2 areas;
- Air Cooled Top pumps for high temperatures on water and oil;
- Low temperature CRN pumps
- Horizontal mounting
- Low NPSH options
- Electropolished (hygienic surface finish)
- CRN MagDrive (magnetic coupling) for chemical applications
- Full stainless steel versions
- 4 poles motors
- Double back-to-back or tandem shaft seal

CATEGORY 2 - DOCUMENTATION AND TESTING

DOCUMENTATION

NB(E), NK(E), CR(I)(E), CM(E) AND MTR(E) 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.

CERTIFICATES & TESTING

	Pump ranges				£ NET	Product Code
	NB/NK	CR	MTR	CM		
SALES OFFICE GENERATED CERTIFICATES (NOT COVERED BY EN10204)					PER PUMP	
Letter of conformity (Certificate of Compliance with the Order 2.1 - Non specific inspection and testing)	✓	✓	✓	✓	FOC	GBLOC001
Typical Test Certificate (Test Report - Non specific inspection and testing 2.2)	✓	✓	✓	✓	55	GBTTC001
PRODUCTION GENERATED CERTIFICATES EN10204 (must be requested at time of order)						
Letter of conformity	✓	✓	✓	✓	POA	96507895
Certificate of Compliance with the order according to EN 10204 2.1						
Typical Test Certificate	✓	✓	✓	✓	POA	96507896
Test report according to EN 10204 2.2 - Non specific inspection and testing						
Duty point verification report according to ISO 9906:2012 grade 3B (3 point performance test)	✓	✓	✓	✓	POA	96539699
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
Material specification report (verification of main component materials used)	✓	✓	✓	✓	POA	96507928
Special material specification report with EN10204 3.1 material certificate for each main component	✓	✓	-	✓	POA	96507929
Surface roughness report according to ISO 1302	-	✓	-	✓	POA	96507931
Vibration report according to ISO 5199	✓	-	-	-	POA	98443849
Vibration report according to ISO 10816	✓	✓	-	✓	POA	96507932
Motor test report	-	✓	-	✓	POA	96507933
PRODUCTION GENERATED REPORTS ON GRUNDFOS VARIANTS (must be requested at time of order)						
Cleaned and dried pump but not tested after assembly	-	✓	-	✓	POA	96507934
Electro polished pump	-	✓	-	-	POA	96507935
PWIS free certificate	✓	-	-	-	POA	98535593
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

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 SCALA2 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).
- Headings in these conditions shall not affect their interpretation.
- 1.2 A person includes a natural person, corporate or unincorporated body (whether or not having separate legal personality).
- 1.3 The schedules and annexes form part of this Agreement.
- 1.4 A reference to writing or written includes fax and email and electronic chat messages.
- 1.5 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.
- 1.6 References to schedules and annexes are to the schedules and annexes of the Order.
- 1.7 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.
- 1.8
2. **Basis of Agreement**
- 2.1 The Order constitutes an offer by the Customer to purchase Equipment and/or Services in accordance with these Conditions.
- 2.2 The Order shall only be deemed to be accepted on the earlier of:
- (a) an authorised representative of Grundfos issues written acceptance of the Order; or
- (b) Grundfos delivers the Equipment and/or commences providing Services to the Customer in line with the Order, at which point and on which the date this Agreement shall come into existence.
- 2.3 Any samples, drawings, descriptive matter or advertising issued by Grundfos and any descriptions of the Equipment or illustrations or descriptions of the Services contained in Grundfos' catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Services and/or Equipment described in them.

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

- 2.4 These Conditions shall:
- (a) apply to and be incorporated into this Agreement;
- (b) prevail over any other terms that the Customer seeks to impose or incorporate; and
- (c) prevail over any terms or conditions implied by law, trade custom, practice or course of dealing between Grundfos, the Customer or otherwise.
- 2.5 These Conditions are subject to any terms, conditions and/or provisions set out in the Order. In the event of any conflict between the terms of these Conditions and the terms of the Order, the provisions of the Order shall prevail, but any special terms granted in respect of any one Order are not applicable to any subsequent Order without the express consent in writing by Grundfos.
- 2.6 Quotations shall only be valid if issued in writing.
- 2.7 Any Quotations are given on the basis that no Agreement shall come into existence except in accordance with condition 2.2. Any Quotation is valid for a period of 30 days from its date (unless otherwise agreed by Grundfos), provided that Grundfos has not previously withdrawn it.
- 2.8 All of these Conditions shall apply to the supply of both Equipment and Services except where application to one or the other is specified.
- 2.9 Any special terms agreed to by Grundfos for any Order shall not apply to any subsequent Order without the express agreement of an authorised representative of Grundfos.
- 2.10 The Customer is responsible for ensuring the accuracy of the terms of the Order and for providing to Grundfos in good time any necessary information required by Grundfos to enable Grundfos to perform its obligations under the Agreement.
- 2.11 Grundfos' minimum order value is £55.00. Orders between £55.00 and £335 for pumps or £130 for Category 4 items will be subject to a £37 handling fee.
3. **Equipment**
- 3.1 The Equipment is described in Grundfos' catalogues as modified in any Equipment Specification.
- 3.2 Unless confirmed in writing by Grundfos, Grundfos makes no representation as to the suitability of the Equipment for the Customer's particular purpose. The Customer will be responsible for ensuring that the Equipment is suitable for its particular purpose and Grundfos shall have no liability to the Customer if the Equipment is not suitable for the Customer's particular purpose (so far as legally possible).
- 3.3 Grundfos (and/or its subcontractors, suppliers or agents) reserves the right to:
- (a) change the design, construction or composition of the Equipment or the materials or equipment used in the Equipment as it shall think fit; and
- (b) amend the Equipment Specification of the Equipment if required by any applicable statutory requirements, and shall, in any case, notify the Customer of any such changes (if such changes are effected after this Agreement has come into existence but before the Equipment and/or Services have been fully performed).
- 3.4 Samples of Equipment are available for inspection at Grundfos' offices. The samples are ex-stock at the time of viewing and are without guarantee as to colour or dimensions at the time of delivery. The viewing of a sample does not create a sale by sample.
4. **Delivery of Equipment**
- 4.1 Grundfos shall deliver the Equipment to the Delivery Location.
- 4.2 Delivery of the Equipment shall be completed on:
- (a) the completion of unloading of the Equipment at the Delivery Location or (in the absence of any specified Delivery Location by the Customer) upon Grundfos informing the Customer that the Equipment is ready; or
- (b) (if the Customer or its agents and/or representatives elect to unload the Equipment themselves) upon Grundfos placing the Equipment at the disposal of the Customer, its agents or representatives at the agreed point.
- 4.3 Grundfos' obligation under condition 4.1 is limited to delivering the Equipment only as near to the Delivery Location as a safe hard road permits. The Customer is to provide to Grundfos, free of charge, reasonable assistance with unloading (unless the Customer elects to unload the Equipment itself).
- 4.4 Any dates quoted for delivery of the Equipment are approximate only, and the time of delivery is not of the essence. Grundfos shall not be liable for any delay (or any additional costs arising out of the delay) in delivery of the Equipment that is caused by a Force Majeure Event or the Customer's failure to provide Grundfos with adequate delivery instructions or any other instructions that are relevant to the supply of the Equipment.
- 4.5 The Equipment may be delivered in advance of the quoted delivery date upon giving reasonable notice to the Customer.
- 4.6 If the Customer fails to take delivery of the Equipment or fails to give Grundfos adequate delivery instructions at the time stated for delivery (otherwise than by reason of Grundfos' sole fault) then, without prejudice to any other right or remedy available to Grundfos:
- (a) delivery of the Equipment shall be deemed to have been completed at 9.00am on the next Business Day following the day on which Grundfos notified the Customer that the Equipment was ready; and
- (b) Grundfos may:
- (i) Charge a re-delivery fee if delivery is rearranged by Grundfos and the Customer;
- (ii) store the Equipment until actual delivery takes place, and charge the Customer for all related costs and expenses (including insurance) of such storage;
- (iii) apply Grundfos' returns policy as set out in condition 6; or
- (iv) sell the Equipment at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) charge the Customer for any shortfall below the price payable by the Customer for the Equipment and Services (as applicable) under this Agreement.
- 4.7 If the parties have agreed on express delivery, the dates quoted for such delivery and agreed delivery dates are approximate only as delivery may vary due to factors not within Grundfos' reasonable control, e.g. leisurely or delayed customs clearance or other import or export obstacles. The parties agree that time of delivery is not of the essence and that Grundfos shall not be liable for any delay (or any additional costs arising out of the delay) in delivery caused by such events.
- 4.8 Grundfos may deliver the Equipment by instalments.
- 4.9 If Equipment is not received by the customer within 7 days of notification of dispatch by Grundfos or if it is received in a damaged condition or the quantity received differs from the quantity advised by Grundfos the Customer shall notify Grundfos in writing. If such written notice is not received by Grundfos within 10 days of the date of Grundfos' dispatch notification, Grundfos will not be liable in respect of any loss or damaged suffered.
- 4.10 If a proof of delivery is required a £10 handling fee will apply.
- 4.11 Proof of delivery shall only be retained by Grundfos for 3 months following delivery. After 3 months it shall be assumed by both parties that delivery successfully took place unless there is evidence to the contrary.
- 4.12 A £20 handling fee will apply per order to all orders for spares, pump components, spares kits and ancillary items such as flanges, unions etc.

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

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

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

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