

Grundfos Industrial Products

Price List June 2022

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)
£120.00 NET (PER ITEM)

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

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

SPARESPEED (PER ITEM)

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

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

SPARES STANDARD DELIVERY CHARGE

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

PRODUCT RETURNS FEE

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

Exclusions to Product Returns apply;

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

STORAGE CHARGE

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

WARRANTY PERIOD

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

SERVICE AND COMMISSIONING

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

ORDER TRACKING AND PROOF OF DELIVERY

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

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

COMPLETE WITH 2 POLES / 2900 RPM IE3 MOTORS

Model	P2 kW	380-415V 3ph 50Hz	
		£	Product Code
		A F2 A E BQQE	AS F2 A E BQQE
NB 32-125.1/100	0.75	1,713	98127503
NB 32-125.1/110	1.1	1,778	98052673
NB 32-125.1/121	1.5	1,864	98124465
NB 32-125.1/140	2.2	1,930	97925276
NB 32-125/106	1.1	1,791	98127311
NB 32-125/115	1.5	1,887	98042368
NB 32-125/130	2.2	1,936	98092892
NB 32-125/142	3	2,298	98769449
NB 32-160.1/139	1.5	1,961	98177522
NB 32-160.1/155	2.2	2,035	98654499
NB 32-160.1/169	3	2,363	98052675
NB 32-160.1/177	4	2,693	98630634
NB 32-160/139	2.2	2,061	98664484
NB 32-160/151	3	2,383	98054003
NB 32-160/163	4	2,663	97925279
NB 32-160/177	5.5	3,223	98856186
NB 32-200.1/172	3	2,524	98300258
NB 32-200.1/188	4	2,823	98492835
NB 32-200.1/205	5.5	3,275	98177816
NB 32-200.1/207	7.5	3,575	98844217
NB 32-200/176	4	2,843	98844220
NB 32-200/190	5.5	3,295	98281463
NB 32-200/206	7.5	3,560	98042381
NB 32-200/219	11	4,610	98300257
NB 32-250/199	5.5	3,569	98844241
NB 32-250/219	7.5	3,842	98665396
NB 32-250/244	11	4,864	98976261
NB 32-250/262	15	5,367	98976263
NB 40-125/105	1.5	2,030	98075312
NB 40-125/116	2.2	2,088	98127774
NB 40-125/127	3	2,472	98701179
NB 40-125/139	4	2,766	98810277
NB 40-125/142	5.5	3,168	98643514
NB 40-160/144	4	2,733	97933638
NB 40-160/158	5.5	3,317	98490590
NB 40-160/172	7.5	3,622	98833679
NB 40-160/177	11	4,592	98488394
NB 40-200/172	5.5	3,372	98844301
NB 40-200/188	7.5	3,678	98844306
NB 40-200/206	11	4,723	98849201
NB 40-200/219	15	5,172	98915632
NB 40-250/211	11	4,829	98671393
NB 40-250/230	15	5,300	98577547
NB 40-250/245	18.5	5,710	98979905
NB 40-250/255	22	6,392	98605465
NB 40-250/260	30	8,265	98876844
NB 40-315/273	22	7,289	98976264
NB 40-315/298	30	9,000	98975674
NB 40-315/318	37	10,367	98975675
NB 40-315/336	45	13,712	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	380-415V 3ph 50Hz	
		£	Product Code
		A F2 A E BQQE	AS F2 A E BQQE
NB 50-125/111	3	2,549	97933635
NB 50-125/121	4	2,796	97933643
NB 50-125/135	5.5	3,356	98627328
NB 50-125/144	7.5	3,642	98781395
NB 50-160/136	5.5	3,372	97992350
NB 50-160/150	7.5	3,687	97925281
NB 50-160/167	11	4,782	98778278
NB 50-160/177	15	5,172	98469280
NB 50-200/181	11	5,017	98639963
NB 50-200/198	15	5,393	98827298
NB 50-200/210	18.5	5,799	98354130
NB 50-200/219	22	6,504	98062906
NB 50-250/205	15	5,584	98979915
NB 50-250/222	18.5	5,996	98979916
NB 50-250/233	22	6,690	98622170
NB 50-250/254	30	8,453	98979797
NB 50-250/263	37	10,501	98978656
NB 50-315/267	30	9,341	98975677
NB 50-315/285	37	10,636	98801946
NB 50-315/300	45	12,345	98975678
NB 50-315/321	55	14,972	98975680
NB 65-125/120-110	4	2,896	98689762
NB 65-125/127	5.5	3,395	98106804
NB 65-125/137	7.5	3,767	97933644
NB 65-125/144	11	4,839	98139415
NB 65-160/143	7.5	3,902	97933647
NB 65-160/157	11	5,001	98291563
NB 65-160/173	15	5,320	98778279
NB 65-160/177	18.5	5,772	98449920
NB 65-200/162	11	5,243	98979917
NB 65-200/177	15	5,621	98979918
NB 65-200/190	18.5	6,004	98967170
NB 65-200/198	22	6,704	98092105
NB 65-200/217	30	8,486	98978642
NB 65-200/219	37	10,559	98883060
NB 65-250/223	30	8,615	98975692
NB 65-250/238	37	9,870	98761286
NB 65-250/251	45	11,834	98975693
NB 65-250/269	55	13,545	98975694
NB 65-250/270	75	16,557	98564391
NB 65-315/272	55	13,703	98975695
NB 65-315/295	75	16,718	98975696
NB 65-315/308	90	19,081	98546406
NB 65-315/320	110	25,088	98975697
NB 80-160/147-127	11	5,208	98447791
NB 80-160/151	15	5,567	98354769
NB 80-160/161	18.5	5,958	98674339
NB 80-160/167	22	6,857	98423647
NB 80-160/177	30	8,594	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	380-415V 3ph 50Hz	
		£	Product Code
		A F2 A E BQQE	
		AS F2 A E BQQE	
NB 80-200/171	22	6,629	98599191
NB 80-200/188	30	8,871	98827295
NB 80-200/200	37	9,928	98674338
NB 80-200/211	45	11,892	98834914
NB 80-200/222	55	13,545	98768407
NB 80-250/220	45	11,945	98720532
NB 80-250/234	55	13,656	98975698
NB 80-250/257	75	15,738	98653174
NB 80-250/270	90	18,249	98975699
NB 80-315/278	90	18,624	98975700
NB 80-315/295	110	25,602	98975721
NB 80-315/310	132	28,066	98975722
NB 80-315/328	160	31,936	98975723
NB 100-160/160-154	18.5	5,941	98976327
NB 100-160/167	22	6,859	98976326
NB 100-160/176	30	8,190	98975993
NB 100-200/170	30	8,500	98975724
NB 100-200/181	37	9,310	98647850
NB 100-200/192	45	11,460	98828352
NB 100-200/203	55	12,986	98975725
NB 100-200/219	75	15,251	98975726
NB 100-250/205	55	13,257	98975867
NB 100-250/229	75	15,784	98975866
NB 100-250/242	90	17,736	98975865
NB 100-250/258	110	24,900	98975864
NB 100-250/274	132	27,737	98975863
NB 100-315/269	110	25,602	98975727
NB 100-315/284	132	28,436	98975728
NB 100-315/301	160	32,683	98975729
NB 100-315/322	200	38,685	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	380-415V 3ph 50Hz	
		£	Product Code
		A F2 A E BQQE	
		AS F2 A E BQQE	
NB 125-200/176-154	45	11,660	98975940
NB 125-200/196-166	55	13,559	98975939
NB 125-200/205	75	16,052	98860774
NB 125-200/219	90	18,036	98975938
NB 125-200/224	110	25,250	98975937
NB 125-250/222	90	18,226	98975741
NB 125-250/236	110	25,316	98975742
NB 125-250/249	132	28,153	98975743
NB 125-250/263	160	32,310	98975744
NB 125-250/269	200	38,310	98975745
NB 125-315/262	132	29,274	98975746
NB 125-315/277	160	34,177	98975747
NB 125-315/297	200	40,179	98610634
			A F1 A E BQQE
			AS F1 A E BQQE
NB 150-200/216-176	75	16,670	98649824
NB 150-200/218-202	90	18,565	98974648
NB 150-200/224	110	25,237	98975748
NB 150-250/226-220	132	27,860	98975960
NB 150-250/235	160	31,869	98975959
NB 150-250/250	200	37,610	98975958
NB 150-315.2/244	160	35,807	99001631
NB 150-315.2/262	200	39,898	99001635



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

COMPLETE WITH 4 POLES / 1450 RPM IE3 MOTORS

Model	P2 kW	380-415V 3ph 50Hz	
		£	Product Code
		A F2 A E BQQE	
		AS F2 A E BQQE	
NB 32-125.1/121	0.25	1,426	98154140
NB 32-125.1/139	0.25	1,426	97656970
NB 32-125.1/140	0.37	1,440	98930646
NB 32-125/115	0.25	1,401	98987645
NB 32-125/130	0.25	1,401	97564281
NB 32-125/142	0.37	1,436	96894223
NB 32-160.1/137	0.25	1,475	98987644
NB 32-160.1/155	0.25	1,475	98971400
NB 32-160.1/172	0.37	1,517	98987628
NB 32-160.1/177	0.55	1,723	97937749
NB 32-160/138	0.25	1,475	98987646
NB 32-160/154	0.37	1,514	98987647
NB 32-160/172	0.55	1,713	96550472
NB 32-160/173	0.75	1,767	98978998
NB 32-200.1/175	0.37	1,626	98672565
NB 32-200.1/196	0.55	1,819	96752523
NB 32-200.1/207	0.75	1,887	98117266
NB 32-200/184	0.55	1,798	98593070
NB 32-200/197	0.75	1,853	98128726
NB 32-200/216	1.1	1,930	98269499
NB 32-200/219	1.5	2,099	98978999
NB 32-250/206	0.75	2,083	98979000
NB 32-250/236	1.1	2,183	98172734
NB 32-250/260	1.5	2,340	98539538
NB 32-250/262	2.2	2,543	98096929
NB 40-125/116	0.25	1,650	96787441
NB 40-125/130	0.37	1,669	96631117
NB 40-125/142	0.55	1,875	96546730
NB 40-160/134	0.37	1,626	98987648
NB 40-160/151	0.55	1,895	96538738
NB 40-160/162	0.75	1,928	98283855
NB 40-160/177	1.1	2,052	98453340
NB 40-200/177	0.75	1,878	98979001
NB 40-200/198	1.1	2,092	98161765
NB 40-200/217	1.5	2,139	98269479
NB 40-200/219	2.2	2,367	98269492
NB 40-250/219	1.5	2,303	98861694
NB 40-250/245	2.2	2,555	98045376
NB 40-250/260	3	2,674	98533156
NB 40-315/283	3	3,323	98979003
NB 40-315/305	4	3,642	98503608
NB 40-315/334	5.5	4,158	98544371
NB 40-315/344	7.5	4,326	98975417
NB 50-125/113	0.37	1,626	98947926
NB 50-125/129	0.55	1,899	98808056
NB 50-125/138	0.75	1,933	98793600
NB 50-125/144	1.1	2,013	98667812
NB 50-160/131	0.55	1,946	98667846
NB 50-160/139	0.75	1,988	98965240
NB 50-160/158	1.1	2,050	98048215
NB 50-160/175	1.5	2,099	98366433
NB 50-160/177	2.2	2,252	98158393
NB 50-200/171	1.1	2,127	98128725
NB 50-200/188	1.5	2,205	98734545
NB 50-200/210	2.2	2,319	98149348
NB 50-200/219	3	2,466	98086583
NB 50-250/221	2.2	2,477	98498186
NB 50-250/241	3	2,615	98439130
NB 50-250/263	4	2,907	97989054

Model	P2 kW	380-415V 3ph 50Hz	
		£	Product Code
		A F2 A E BQQE	
		AS F2 A E BQQE	
NB 50-315/277	4	3,669	98911732
NB 50-315/303	5.5	4,307	98594413
NB 50-315/331	7.5	4,870	98975418
NB 50-315/344	11	5,865	98976265
NB 65-125/122	0.55	1,911	97931701
NB 65-125/130	0.75	1,972	98727894
NB 65-125/144	1.1	2,083	98488793
NB 65-160/135	0.75	1,953	98979004
NB 65-160/149	1.1	2,044	98071620
NB 65-160/165	1.5	2,086	98073688
NB 65-160/177	2.2	2,272	98178373
NB 65-200/170	1.5	2,468	98875534
NB 65-200/189	2.2	2,590	98106878
NB 65-200/205	3	2,743	97989353
NB 65-200/219	4	3,107	98353645
NB 65-250/215	3	3,213	98979005
NB 65-250/232	4	3,558	98533869
NB 65-250/254	5.5	3,722	98150990
NB 65-250/270	7.5	4,712	98439129
NB 65-315/261	5.5	4,435	98700494
NB 65-315/282	7.5	4,867	98257226
NB 65-315/314	11	6,213	98976219
NB 65-315/320	15	6,748	98666284
NB 80-160/146	1.5	2,385	98740618
NB 80-160/161	2.2	2,571	97992026
NB 80-160/175	3	2,698	98127507
NB 80-160/177	4	2,998	97907876
NB 80-200/164	2.2	3,076	98844518
NB 80-200/179	3	3,213	98673212
NB 80-200/196	4	3,525	98042383
NB 80-200/214	5.5	4,044	98175428
NB 80-200/222	7.5	4,562	98269474
NB 80-250/225	5.5	4,359	98154251
NB 80-250/247	7.5	4,862	98052703
NB 80-250/270	11	6,099	98728855
NB 80-315/280	11	6,430	98976266
NB 80-315/305	15	6,941	98976220
NB 80-315/320	18.5	7,725	98824891
NB 80-315/334	22	8,246	98868112
NB 80-400/347	18.5	10,110	98975773
NB 80-400/365	22	10,661	98914617
NB 80-400/397	30	12,508	98969291
NB 80-400/419	37	14,184	98619938
NB 80-400/438	45	15,277	98975774
NB 100-160/160-140	2.2	2,876	98846058
NB 100-160/169	3	3,015	98846059
NB 100-160/176	4	3,325	98846055
NB 100-200/178	4	3,673	98321723
NB 100-200/195	5.5	4,162	98149345
NB 100-200/211	7.5	4,715	98180947
NB 100-200/219	11	5,567	98477982
NB 100-250/215	7.5	5,458	98846061
NB 100-250/245	11	6,470	98860204
NB 100-250/274	15	6,908	98856093
NB 100-315/279	15	7,247	98567533
NB 100-315/295	18.5	7,957	98876482
NB 100-315/312	22	8,507	98975636
NB 100-315/334	30	10,220	98975777

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

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

COMPLETE WITH 4 POLES / 1450 RPM IE3 MOTORS

Model	P2 kW	380-415V 3ph 50Hz	
		£	Product Code
		A F2 A E BQQE	AS F2 A E BQQE
NB 100-400/334	22	10,623	98975924
NB 100-400/360	30	12,359	98975923
NB 100-400/375	37	14,033	98975922
NB 100-400/395	45	15,423	98975921
NB 100-400/415	55	17,428	98975910
NB 125-200/176-154	5.5	4,968	98843507
NB 125-200/196-180	7.5	5,400	98843510
NB 125-200/219	11	6,382	98976322
NB 125-200/226	15	6,870	98855932
NB 125-250/220	11	6,653	98976267
NB 125-250/236	15	7,136	98115564
NB 125-250/249	18.5	7,896	98600057
NB 125-250/262	22	8,418	98672953
NB 125-250/269	30	10,278	98737312
NB 125-315/275	18.5	9,699	98835476
NB 125-315/290	22	10,212	98835478
NB 125-315/317	30	12,098	98857197
NB 125-315/336	37	13,023	98975779
NB 125-315/338	45	14,675	98975780
NB 125-400/345	37	13,477	98975791
NB 125-400/368	45	15,127	98975792
NB 125-400/392	55	17,367	98975793
NB 125-400/433	75	19,756	98975794
NB 125-400/438	90	21,348	98975795
NB 125-500/406	55	19,536	98975796
NB 125-500/447	75	21,797	98975797
NB 125-500/473	90	23,392	98939118
NB 125-500/500	110	30,789	98975798
NB 125-500/526	132	31,854	98975799
NB 125-500/548	160	34,128	98975800
		A F1 A E BQQE	AS F1 A E BQQE
NB 150-200/210-158	7.5	6,099	98249368
NB 150-200/218-208	11	7,359	98769189
NB 150-200/224	15	7,788	98455883
NB 150-250/226-214	15	8,354	98976325
NB 150-250/230	18.5	9,136	98975972
NB 150-250/242	22.0	9,627	98914616
NB 150-250/262	30.0	11,448	98807421
NB 150-250/275	37.0	13,169	98975971
NB 150-250/282	45.0	14,145	98835475
NB 150-315.2/250	22.0	9,891	99001639
NB 150-315.2/275	30.0	11,642	99001640
NB 150-315.2/294	37.0	13,282	99001641
NB 150-315.2/314	45.0	14,118	99001643
NB 150-315.2/334	55.0	16,340	99001644
NB 150-315.2/342	75.0	18,418	99001662

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

ELECTRIC MOTOR

Motors 4kW and above are 380-415D V/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.

Model	P2 kW	380-415V 3ph 50Hz	
		£	Product Code
		A F2 A E BQQE	AS F2 A E BQQE
NB 150-315/275	37	13,745	98975822
NB 150-315/291	45	14,632	98854510
NB 150-315/310	55	16,886	98791582
NB 150-315/336	75	19,033	98607735
NB 150-315/338	90	21,254	98974752
NB 150-400/343	55	17,700	98866025
NB 150-400/375	75	20,423	98975823
NB 150-400/394	90	22,730	98975824
NB 150-400/412	110	30,021	98975825
NB 150-400/431	132	31,063	98975826
NB 150-400/438	160	33,310	98975827
NB 150-500/459	132	33,313	98975828
NB 150-500/489	160	35,557	98975829
NB 150-500/521	200	39,785	98975830
NB 200-400/280	37	20,558	98976107
NB 200-400/296	45	22,172	98976108
NB 200-400/312	55	23,613	98976109
NB 200-400/344	75	24,956	98976110
NB 200-400/364	90	26,375	98976111
NB 200-400/392	110	28,947	98976112
NB 200-400/404	132	30,862	98976113
NB 200-450/367	75	25,281	98976151
NB 200-450/391	90	26,697	98976152
NB 200-450/415	110	32,821	98976153
NB 200-450/435	132	34,410	98976154
NB 200-450/455	160	37,057	98976155
NB 250-350/266	37	21,847	98976181
NB 250-350/294	45	23,786	98788469
NB 250-350/318	55	25,978	98857218
NB 250-350/362	75	30,120	98857214
NB 250-350/370	90	32,183	98976182
NB 250-400/281	45	24,434	98976204
NB 250-400/301	55	26,625	98590841
NB 250-400/329	75	30,765	98976205
NB 250-400/349	90	33,798	98976206
NB 250-400/365	110	36,120	98976207
NB 250-400/385	132	37,711	98976208
NB 250-400/405	160	40,038	98938357
NB 250-450/325	75	31,425	98976237
NB 250-450/341	90	33,810	98976238
NB 250-450/361	110	36,132	98976239
NB 250-450/381	132	38,048	98976240
NB 250-450/401	160	40,695	98976241
NB 250-450/445	200	44,687	98976242
NB 250-500/417	160	43,600	98976259
NB 250-500/445	200	47,914	98976260



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

COMPLETE WITH 6 POLES / 960 RPM IE3 MOTORS

Model	P2 kW	380-415V 3ph 50Hz	
		£	Product Code
		A F2 A E BQQE	
		AS F2 A E BQQE	
NB 100-160/160-140	0.55	2,580	98975712
NB 100-160/169	0.75	2,766	98975711
NB 100-160/176	1.1	2,876	98975710
NB 100-200/182	1.1	3,151	98871702
NB 100-200/193	1.5	3,257	98974772
NB 100-200/214	2.2	3,401	98974571
NB 100-200/219	3	3,910	98974773
NB 100-250/216	2.2	3,480	98975595
NB 100-250/236	3	3,985	98975594
NB 100-250/260	4	4,241	98975593
NB 100-250/274	5.5	4,942	98975592
NB 100-315/272	4	4,488	98974774
NB 100-315/301	5.5	4,980	98974776
NB 100-315/326	7.5	5,772	98975638
NB 100-315/334	11	7,050	98975851
NB 100-400/340	7.5	8,104	98975927
NB 100-400/380	11	9,324	98975926
NB 100-400/415	15	10,284	98975925
NB 125-200/176-150	1.5	3,788	98975648
NB 125-200/196-182	2.2	3,885	98975647
NB 125-200/215	3	4,322	98975646
NB 125-200/226	4	4,448	98975645
NB 125-250/216	3	4,396	98974778
NB 125-250/232	4	4,562	98974779
NB 125-250/253	5.5	4,980	98974780
NB 125-250/269	7.5	5,739	98975653
NB 125-315/275	5.5	6,562	98974791
NB 125-315/297	7.5	7,394	98975852
NB 125-315/335	11	8,575	98975853
NB 125-315/338	15	9,538	98975854
NB 125-400/351	11	9,372	98975855
NB 125-400/384	15	10,377	98975856
NB 125-400/410	18.5	11,582	98975857
NB 125-400/434	22	12,603	98975858
NB 125-400/438	30	13,637	98975859
NB 125-500/421	18.5	13,470	98975860
NB 125-500/445	22	14,757	98975871
NB 125-500/493	30	15,681	98975872
NB 125-500/524	37	16,920	98975873
NB 125-500/546	45	18,673	98975874
NB 125-500/548	55	20,235	98975875
		A F1 A E BQQE	
		AS F1 A E BQQE	
NB 150-200/210-168	2.2	4,631	98974567
NB 150-200/218-200	3	5,099	98974593
NB 150-200/224	4	5,352	98557012
NB 150-250/235	5.5	6,407	98975688
NB 150-250/252	7.5	7,343	98975975
NB 150-250/282	11	8,585	98975974
NB 150-315.2/259	7.5	7,667	99001645
NB 150-315.2/293	11	8,819	99001646
NB 150-315.2/328	15	9,758	99001647
NB 150-315.2/342	18.5	10,943	99001675
NB 150-315/280	11	9,163	98975876
NB 150-315/305	15	10,078	98975877
NB 150-315/322	19	11,232	98590859
NB 150-315/337	22	12,024	98975878
NB 150-315/338	30	13,077	98975879

SUPPORT BLOCKS

Pumps listed in the darker shaded area include Support Blocks

Model	P2 kW	380-415V 3ph 50Hz	
		£	Product Code
		A F2 A E BQQE	
		AS F2 A E BQQE	
NB 150-400/357	18.5	11,967	98975880
NB 150-400/375	22	12,776	98975881
NB 150-400/408	30	13,868	98975882
NB 150-400/430	37	15,331	98975883
NB 150-400/438	45	17,358	98975884
NB 150-500/457	37	17,841	98975885
NB 150-500/483	45	19,752	98975886
NB 150-500/513	55	21,212	98975887
NB 150-500/548	75	23,018	98975888
NB 200-400/308	15	15,189	98976114
NB 200-400/328	18.5	16,046	98976115
NB 200-400/348	22	18,027	98976116
NB 200-400/384	30	19,487	98976117
NB 200-400/404	37	22,213	98976118
NB 200-450/355	18.5	16,046	98976156
NB 200-450/371	22	18,673	98976157
NB 200-450/407	30	20,454	98976158
NB 200-450/431	37	22,536	98976159
NB 200-450/451	45	23,929	98976160
NB 250-350/277	11	15,692	98976183
NB 250-350/306	15	17,572	98976184
NB 250-350/330	18.5	18,101	98871350
NB 250-350/366	22	20,151	98976185
NB 250-400/289	15	17,895	98976209
NB 250-400/313	18.5	18,677	98976210
NB 250-400/329	22	20,474	98976221
NB 250-400/361	30	23,038	98976222
NB 250-400/381	37	24,900	98976223
NB 250-400/401	45	26,508	98976224
NB 250-450/313	18.5	19,403	98976243
NB 250-450/325	22	21,455	98976244
NB 250-450/357	30	24,019	98976245
NB 250-450/377	37	25,883	98976246
NB 250-450/397	45	26,522	98976247
NB 250-450/433	55	27,586	98976248
NB 250-500/409	45	28,780	98976271
NB 250-500/437	55	30,168	98976272
NB 250-500/485	75	36,048	98976273
NB 250-500/525	90	38,620	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

			380-480/500V 3ph 50/60Hz	
Model	P2 kW	Differential pressure transducer range	£	Product code
			A F2 A E BQQE	
			AS F2 A E BQQE	
NBE 32-125.1/110	1.1	0 - 2.5 bar	3,349	98983996
NBE 32-125.1/121	1.5	0 - 2.5 bar	3,524	98632194
NBE 32-125.1/140	2.2	0 - 4 bar	3,915	98629487
NBE 32-125/106	1.1	0 - 1.6 bar	3,362	98946031
NBE 32-125/115	1.5	0 - 2.5 bar	3,545	98650464
NBE 32-125/130	2.2	0 - 2.5 bar	3,920	98564298
NBE 32-125/142	3	0 - 4 bar	4,610	99105451
NBE 32-160.1/139	1.5	0 - 2.5 bar	3,618	99025305
NBE 32-160.1/155	2.2	0 - 4 bar	4,017	99104684
NBE 32-160.1/169	3	0 - 4 bar	4,673	99105452
NBE 32-160.1/177	4	0 - 6 bar	5,322	99101960
NBE 32-160/139	2.2	0 - 4 bar	4,042	99104685
NBE 32-160/151	3	0 - 4 bar	4,691	99105453
NBE 32-160/163	4	0 - 4 bar	5,292	99101765
NBE 32-160/177	5.5	0 - 6 bar	6,191	99106342
NBE 32-200.1/172	3	0 - 4 bar	4,829	99105454
NBE 32-200.1/188	4	0 - 6 bar	5,448	99100084
NBE 32-200.1/205	5.5	0 - 6 bar	6,244	99100055
NBE 32-200.1/207	7.5	0 - 6 bar	7,187	99101961
NBE 32-200/176	4	0 - 4 bar	5,466	99101962
NBE 32-200/190	5.5	0 - 6 bar	6,262	99100058
NBE 32-200/206	7.5	0 - 6 bar	7,173	99100050
NBE 32-200/219	11	0 - 10 bar	9,286	99101877
NBE 32-250/199	5.5	0 - 6 bar	6,529	99101963
NBE 32-250/219	7.5	0 - 10 bar	7,445	99101876
NBE 32-250/244	11	0 - 10 bar	9,536	99101964
NBE 32-250/262	15	0 - 10 bar	10,853	98976060
NBE 40-125/105	1.5	0 - 1.6 bar	3,687	98602651
NBE 40-125/116	2.2	0 - 2.5 bar	4,069	99014205
NBE 40-125/127	3	0 - 2.5 bar	4,777	99105455
NBE 40-125/139	4	0 - 4 bar	5,391	99100080
NBE 40-125/142	5.5	0 - 4 bar	6,138	99101965
NBE 40-160/144	4	0 - 4 bar	5,359	99101966
NBE 40-160/158	5.5	0 - 4 bar	6,283	99100076
NBE 40-160/172	7.5	0 - 6 bar	7,232	99100093
NBE 40-160/177	11	0 - 6 bar	9,270	99101896
NBE 40-200/172	5.5	0 - 4 bar	6,337	99101967
NBE 40-200/188	7.5	0 - 6 bar	7,285	99101879
NBE 40-200/206	11	0 - 6 bar	9,398	99106399
NBE 40-200/219	15	0 - 10 bar	10,665	98979881
NBE 40-250/211	11	0 - 10 bar	9,500	99101998
NBE 40-250/230	15	0 - 10 bar	10,788	98979852
NBE 40-250/245	18.5	0 - 10 bar	12,299	98979854
NBE 40-250/255	22	0 - 10 bar	13,841	98605464
NBE 40-315/273	22	0 - 10 bar	14,712	98976083
NBE 50-125/111	3	0 - 1.6 bar	4,852	99105456
NBE 50-125/121	4	0 - 2.5 bar	5,421	99101769
NBE 50-125/135	5.5	0 - 4 bar	6,321	99102007
NBE 50-125/144	7.5	0 - 4 bar	7,250	99100090
NBE 50-160/136	5.5	0 - 4 bar	6,337	99100073
NBE 50-160/150	7.5	0 - 4 bar	7,294	99100047
NBE 50-160/167	11	0 - 4 bar	9,454	99101898
NBE 50-160/177	15	0 - 6 bar	10,665	98468706
NBE 50-200/181	11	0 - 6 bar	9,683	99101748
NBE 50-200/198	15	0 - 6 bar	10,880	98979862
NBE 50-200/210	18.5	0 - 10 bar	12,386	98979864
NBE 50-200/219	22	0 - 10 bar	13,948	98564295
NBE 50-250/205	15	0 - 6 bar	11,064	98979884
NBE 50-250/222	18.5	0 - 10 bar	12,578	98979887
NBE 50-250/233	22	0 - 10 bar	14,129	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	380-480/500V 3ph 50/60Hz	
			£	Product code
			A F2 A E BQQE	
			AS F2 A E BQQE	
NBE 65-125/120-110	4	0 - 1.6 bar	5,519	99101764
NBE 65-125/127	5.5	0 - 2.5 bar	6,359	99101749
NBE 65-125/137	7.5	0 - 2.5 bar	7,372	99101897
NBE 65-125/144	11	0 - 4 bar	9,511	99101763
NBE 65-160/143	7.5	0 - 4 bar	7,505	99101878
NBE 65-160/157	11	0 - 4 bar	9,667	99100102
NBE 65-160/173	15	0 - 6 bar	10,807	98844654
NBE 65-160/177	18.5	0 - 6 bar	12,359	98979888
NBE 65-200/162	11	0 - 4 bar	9,901	99101899
NBE 65-200/177	15	0 - 6 bar	11,100	98979890
NBE 65-200/190	18.5	0 - 6 bar	12,586	98645657
NBE 65-200/198	22	0 - 6 bar	14,143	97907877
NBE 80-160/147-127	11	0 - 2.5 bar	9,869	99106396
NBE 80-160/151	15	0 - 4 bar	11,048	98680720
NBE 80-160/161	18.5	0 - 4 bar	12,540	98979869
NBE 80-160/167	22	0 - 4 bar	14,291	96645314
NBE 80-200/171	22	0 - 6 bar	14,070	98975790
NBE 100-160/160-154	18.5	0 - 4 bar	12,524	98976198
NBE 100-160/167	22	0 - 4 bar	14,294	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

380-480/500V 3ph 50/60Hz

£ Product code

A F2 A E BQQE

AS F2 A E BQQE

Model	P2 kW	Differential pressure transducer range		
NBE 32-160.1/177	0.55	0 - 1.6 bar	3,222	98890805
NBE 32-160/172	0.55	0 - 1.6 bar	3,215	99104648
NBE 32-160/173	0.75	0 - 1.6 bar	3,308	99104650
NBE 32-200.1/196	0.55	0 - 1.6 bar	3,317	98609256
NBE 32-200.1/207	0.75	0 - 1.6 bar	3,423	98808680
NBE 32-200/184	0.55	0 - 1.6 bar	3,295	99104651
NBE 32-200/197	0.75	0 - 1.6 bar	3,392	99104652
NBE 32-200/216	1.1	0 - 2.5 bar	3,498	99104673
NBE 32-200/219	1.5	0 - 2.5 bar	3,753	99105406
NBE 32-250/206	0.75	0 - 1.6 bar	3,616	99104674
NBE 32-250/236	1.1	0 - 2.5 bar	3,743	98920646
NBE 32-250/260	1.5	0 - 2.5 bar	3,988	99105408
NBE 32-250/262	2.2	0 - 2.5 bar	4,510	99105409
NBE 40-125/142	0.55	0 - 1.0 bar	3,371	98726811
NBE 40-160/151	0.55	0 - 1.0 bar	3,389	99104675
NBE 40-160/162	0.75	0 - 1.0 bar	3,464	99104676
NBE 40-160/177	1.1	0 - 1.6 bar	3,616	98890794
NBE 40-200/177	0.75	0 - 1.6 bar	3,417	99104677
NBE 40-200/198	1.1	0 - 1.6 bar	3,654	99104678
NBE 40-200/217	1.5	0 - 1.6 bar	3,791	99105410
NBE 40-200/219	2.2	0 - 2.5 bar	4,338	99105411
NBE 40-250/219	1.5	0 - 2.5 bar	3,950	99105412
NBE 40-250/245	2.2	0 - 2.5 bar	4,521	99105413
NBE 40-250/260	3	0 - 2.5 bar	4,974	99105414
NBE 40-315/283	3	0 - 4 bar	5,604	99105415
NBE 40-315/305	4	0 - 4 bar	6,244	99101881
NBE 40-315/334	5.5	0 - 4 bar	7,294	99101968
NBE 40-315/344	7.5	0 - 6 bar	8,053	99101969
NBE 50-125/129	0.55	0 - 0.6 bar	3,395	99104679
NBE 50-125/138	0.75	0 - 1.0 bar	3,471	98591318
NBE 50-125/144	1.1	0 - 1.0 bar	3,577	99031018
NBE 50-160/131	0.55	0 - 0.6 bar	3,442	98689527
NBE 50-160/139	0.75	0 - 1.0 bar	3,524	99104680
NBE 50-160/158	1.1	0 - 1.0 bar	3,614	98773132
NBE 50-160/175	1.5	0 - 1.6 bar	3,753	99105416
NBE 50-160/177	2.2	0 - 1.6 bar	4,228	99105417
NBE 50-200/171	1.1	0 - 1.6 bar	3,689	99104681
NBE 50-200/188	1.5	0 - 1.6 bar	3,857	99105418
NBE 50-200/210	2.2	0 - 1.6 bar	4,292	99105419
NBE 50-200/219	3	0 - 2.5 bar	4,772	99105420
NBE 50-250/221	2.2	0 - 2.5 bar	4,446	99105421
NBE 50-250/241	3	0 - 2.5 bar	4,918	99105422
NBE 50-250/263	4	0 - 2.5 bar	5,529	99101875
NBE 50-315/277	4	0 - 4 bar	6,269	99101970
NBE 50-315/303	5.5	0 - 4 bar	7,439	99101971
NBE 50-315/331	7.5	0 - 6 bar	8,582	99101873
NBE 50-315/344	11	0 - 6 bar	10,643	98976085
NBE 65-125/122	0.55	0 - 0.6 bar	3,405	98941572
NBE 65-125/130	0.75	0 - 0.6 bar	3,508	99104682
NBE 65-125/144	1.1	0 - 1.0 bar	3,646	98956877
NBE 65-160/135	0.75	0 - 1.0 bar	3,490	98920991
NBE 65-160/149	1.1	0 - 1.0 bar	3,607	99104683
NBE 65-160/165	1.5	0 - 1.0 bar	3,740	99105433
NBE 65-160/177	2.2	0 - 1.6 bar	4,247	99105434
NBE 65-200/170	1.5	0 - 1.6 bar	4,112	99105435
NBE 65-200/189	2.2	0 - 1.6 bar	4,557	99166379
NBE 65-200/205	3	0 - 1.6 bar	5,042	99105437
NBE 65-200/219	4	0 - 2.5 bar	5,723	99101750
NBE 65-250/215	3	0 - 2.5 bar	5,496	99105438
NBE 65-250/232	4	0 - 2.5 bar	6,162	99101772
NBE 65-250/254	5.5	0 - 2.5 bar	7,319	99101619
NBE 65-250/270	7.5	0 - 4 bar	8,428	99101900
NBE 65-315/261	5.5	0 - 2.5 bar	7,563	99101972
NBE 65-315/282	7.5	0 - 4 bar	8,579	99101770
NBE 65-315/314	11	0 - 4 bar	10,979	98666285
NBE 65-315/320	15	0 - 4 bar	12,327	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

				380-480/500V 3ph 50/60Hz
				£ Product code
				A F2 A E BQQE
				AS F2 A E BQQE
Model	P2 kW	Differential pressure transducer range		
NBE 80-160/146	1.5	0 - 1.0 bar	4,031	99105439
NBE 80-160/161	2.2	0 - 1.0 bar	4,537	99105440
NBE 80-160/175	3	0 - 1.6 bar	4,999	99105441
NBE 80-160/177	4	0 - 1.6 bar	5,618	99101751
NBE 80-200/164	2.2	0 - 1.0 bar	5,029	99105442
NBE 80-200/179	3	0 - 1.6 bar	5,496	99105443
NBE 80-200/196	4	0 - 1.6 bar	6,130	99101959
NBE 80-200/214	5.5	0 - 2.5 bar	7,183	99101768
NBE 80-200/222	7.5	0 - 2.5 bar	8,282	99100109
NBE 80-250/225	5.5	0 - 2.5 bar	7,491	99101771
NBE 80-250/247	7.5	0 - 2.5 bar	8,574	99100061
NBE 80-250/270	11	0 - 4 bar	10,869	98692711
NBE 80-315/280	11	0 - 4 bar	11,250	98976087
NBE 80-315/305	15	0 - 4 bar	12,515	98976055
NBE 80-315/320	18.5	0 - 4 bar	14,143	99150846
NBE 80-400/347	18.5	0 - 6 bar	16,460	99105337
NBE 100-160/160-140	2.2	0 - 1.0 bar	4,834	99105444
NBE 100-160/169	3	0 - 1.0 bar	5,306	99105445
NBE 100-160/176	4	0 - 1.0 bar	5,936	99101913
NBE 100-200/178	4	0 - 1.6 bar	6,273	99105447
NBE 100-200/195	5.5	0 - 1.6 bar	7,298	99105448
NBE 100-200/211	7.5	0 - 2.5 bar	8,431	99105449
NBE 100-200/219	11	0 - 2.5 bar	10,352	98976088
NBE 100-250/215	7.5	0 - 2.5 bar	9,153	99101910
NBE 100-250/245	11	0 - 2.5 bar	11,230	98976180
NBE 100-250/274	15	0 - 4 bar	12,483	98976179
NBE 100-315/279	15	0 - 4 bar	12,811	98976089
NBE 100-315/295	18.5	0 - 4 bar	14,370	99105338
NBE 125-200/176-154	5.5	0 - 1.0 bar	8,080	99101912
NBE 125-200/196-180	7.5	0 - 1.6 bar	9,096	99101911
NBE 125-200/219	11	0 - 2.5 bar	11,203	98976193
NBE 125-200/226	15	0 - 2.5 bar	12,445	98976192
NBE 125-250/220	11	0 - 2.5 bar	11,467	98976090
NBE 125-250/236	15	0 - 2.5 bar	12,703	98349835
NBE 125-250/249	18.5	0 - 2.5 bar	14,310	98349876
NBE 125-315/275	18.5	0 - 4 bar	16,061	99042637
				A F1 A E BQQE
				AS F1 A E BQQE
NBE 150-200/210-158	7.5	0 - 1.0 bar	10,096	99157328
NBE 150-200/218-208	11	0 - 1.6 bar	12,497	98976056
NBE 150-200/224	15	0 - 1.6 bar	13,746	98762436
NBE 150-250/226-214	15	0 - 1.6 bar	14,326	98976196
NBE 150-250/230	18.5	0 - 2.5 bar	15,993	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	380-415V 3ph 50Hz	
		£	Product Code
		A2 F A E BQQE	
NK 32-125.1/100	0.75	3,543	98973375
NK 32-125.1/110	1.1	3,589	98973377
NK 32-125.1/121	1.5	3,697	98973379
NK 32-125.1/140	2.2	3,760	98973381
NK 32-125/106	1.1	3,641	98973383
NK 32-125/115	1.5	3,749	98973385
NK 32-125/130	2.2	3,808	98973388
NK 32-125/142	3	4,068	98973391
NK 32-160.1/139	1.5	3,835	98973393
NK 32-160.1/155	2.2	3,892	98973395
NK 32-160.1/169	3	4,155	98973397
NK 32-160.1/177	4	4,392	98973401
NK 32-160/139	2.2	3,959	98973403
NK 32-160/151	3	4,228	98973405
NK 32-160/163	4	4,465	98973407
NK 32-160/177	5.5	4,796	98973410
NK 32-200.1/172	3	4,249	98973422
NK 32-200.1/188	4	4,488	98973424
NK 32-200.1/205	5.5	4,815	98973426
NK 32-200.1/207	7.5	5,131	98973429
NK 32-200/176	4	4,514	98973430
NK 32-200/190	5.5	4,856	98869755
NK 32-200/206	7.5	5,164	98408593
NK 32-200/219	11	5,968	98663381
NK 32-250/199	5.5	5,372	98973438
NK 32-250/219	7.5	5,694	98973431
NK 32-250/244	11	6,540	98973434
NK 32-250/262	15	7,263	98973444
NK 40-125/105	1.5	3,714	98973447
NK 40-125/116	2.2	3,775	98973450
NK 40-125/127	3	4,021	98553113
NK 40-125/139	4	4,259	98973452
NK 40-125/142	5.5	4,586	98973454
NK 40-160/144	4	4,396	98973456
NK 40-160/158	5.5	4,723	98973458
NK 40-160/172	7.5	5,024	98973436
NK 40-160/177	11	5,806	98431476
NK 40-200/172	5.5	4,859	98545685
NK 40-200/188	7.5	5,149	98973439
NK 40-200/206	11	5,938	98973441
NK 40-200/219	15	6,609	98973466
NK 40-250/211	11	6,457	98973442
NK 40-250/230	15	7,154	98052630
NK 40-250/245	18.5	7,468	98973445
NK 40-250/255	22	8,590	98257988
NK 40-250/260	30	10,398	98972741
NK 40-315/273	22	9,272	98973446
NK 40-315/298	30	11,094	98972745
NK 40-315/318	37	12,173	98972748
NK 40-315/336	45	15,417	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	380-415V 3ph 50Hz	
		£	Product Code
		A2 F A E BQQE	
NK 50-125/111	3	4,353	98476607
NK 50-125/121	4	4,595	98973476
NK 50-125/135	5.5	5,007	98973478
NK 50-125/144	7.5	5,251	98763599
NK 50-160/136	5.5	5,046	98973482
NK 50-160/150	7.5	5,288	98249313
NK 50-160/167	11	6,089	98973449
NK 50-160/177	15	6,778	98973488
NK 50-200/181	11	6,182	98973451
NK 50-200/198	15	6,874	98973492
NK 50-200/210	18.5	7,182	98425314
NK 50-200/219	22	8,268	98425315
NK 50-250/205	15	7,122	98973498
NK 50-250/222	18.5	7,424	98973453
NK 50-250/233	22	8,517	98973455
NK 50-250/254	30	10,285	98972782
NK 50-250/263	37	11,169	98972784
NK 50-315/267	30	11,589	98972786
NK 50-315/285	37	12,501	98972788
NK 50-315/300	45	14,308	98972790
NK 50-315/321	55	17,970	98972792
		#N/A	
NK 65-125/120-110	4	4,683	98803689
NK 65-125/127	5.5	5,100	98646989
NK 65-125/137	7.5	5,341	98973457
NK 65-125/144	11	6,155	98973459
NK 65-160/143	7.5	5,437	98973461
NK 65-160/157	11	6,245	98973463
NK 65-160/173	15	6,951	98973508
NK 65-160/177	18.5	7,262	98973465
NK 65-200/162	11	6,570	98973467
NK 65-200/177	15	7,273	98973516
NK 65-200/190	18.5	7,589	98973469
NK 65-200/198	22	8,825	98724610
NK 65-200/217	30	10,543	98972819
NK 65-200/219	37	11,435	98972821
NK 65-250/223	30	11,203	98972823
NK 65-250/238	37	12,085	98972825
NK 65-250/251	45	13,856	98972828
NK 65-250/269	55	16,610	98972830
NK 65-250/270	75	20,053	98972832
NK 65-315/272	55	17,334	98972834
NK 65-315/295	75	20,564	98972837
NK 65-315/308	90	23,582	98972839
NK 65-315/320	110	28,646	98972841
NK 80-160/147-127	11	6,216	98973471
NK 80-160/151	15	6,881	98973525
NK 80-160/161	18.5	7,185	98973473
NK 80-160/167	22	8,252	98663370
NK 80-160/177	30	9,975	98972862
NK 80-200/171	22	9,023	98973475
NK 80-200/188	30	10,752	98876779
NK 80-200/200	37	11,742	98742088
NK 80-200/211	45	13,312	98972866
NK 80-200/222	55	15,971	98972868
NK 80-250/220	45	14,146	98972870
NK 80-250/234	55	16,910	98972873
NK 80-250/257	75	19,234	98972875
NK 80-250/270	90	21,643	98867710
NK 80-315/278	90	22,417	98972877
NK 80-315/295	110	28,990	98972880
NK 80-315/310	132	31,964	98972882
NK 80-315/328	160	36,602	98972885



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

COMPLETE WITH 2 POLES / 2900 RPM IE3 MOTORS

Model	P2 kW	380-415V 3ph 50Hz	
		£	Product Code
		A2 F A E BQQE	
NK 100-160/160-154	18.5	7,568	98973728
NK 100-160/167	22	8,670	98973726
NK 100-160/176	30	10,437	98973337
NK 100-200/170	30	11,479	98972887
NK 100-200/181	37	12,362	98833673
NK 100-200/192	45	14,154	98972889
NK 100-200/203	55	16,926	98606358
NK 100-200/219	75	19,250	98698076
NK 100-250/205	55	17,216	98973187
NK 100-250/229	75	19,527	98973185
NK 100-250/242	90	21,934	98973183
NK 100-250/258	110	29,700	98973181
NK 100-250/269	132	32,997	98973179
NK 100-315/269	110	31,544	98829703
NK 100-315/284	132	33,060	98972891
NK 100-315/301	160	37,926	98972893
NK 100-315/322	200	43,923	98972895

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 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	380-415V 3ph 50Hz	
		£	Product Code
		A2 F A E BQQE	
NK 125-200/176-154	45	14,908	98973262
NK 125-200/196-166	55	17,678	98973260
NK 125-200/205	75	20,644	98973258
NK 125-200/219	90	22,930	98973257
NK 125-200/224	110	30,539	98973255
NK 125-250/222	90	23,484	98972898
NK 125-250/236	110	30,404	98972900
NK 125-250/249	132	32,654	98684463
NK 125-250/263	160	37,414	98972902
NK 125-250/269	200	43,436	98972904
NK 125-315/262	132	34,363	98972906
NK 125-315/277	160	39,091	98972908
NK 125-315/297	200	45,111	98972910
NK 125-315/317	250	66,663	98444952
NK 150-200/216-176	75	22,529	98767265
NK 150-200/218-202	90	24,810	98972912
NK 150-200/224	110	32,424	98972914
NK 150-250/226-220	132	37,630	98973304
NK 150-250/235	160	42,378	98973302
NK 150-250/250	200	48,538	98973300
NK 150-250/265	250	POA	98973298
NK 150-315.2/244	160	45,120	99001704
NK 150-315.2/262	200	49,212	99001705



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

COMPLETE WITH 4 POLES / 1450 RPM IE3 MOTORS

		380-415V 3ph 50Hz	
	P2	£	Product Code
Model	kW	A2 F A E BQQE	
NK 32-125.1/121	0.25	3,270	98986192
NK 32-125.1/139	0.25	3,270	98986194
NK 32-125.1/140	0.37	3,297	98986196
NK 32-125/115	0.25	3,322	98986218
NK 32-125/130	0.25	3,322	98986237
NK 32-125/142	0.37	3,349	98986239
NK 32-160.1/137	0.25	3,421	98986241
NK 32-160.1/155	0.25	3,421	98986245
NK 32-160.1/172	0.37	3,449	98986247
NK 32-160.1/177	0.55	3,616	98986249
NK 32-160/138	0.25	3,484	98986250
NK 32-160/154	0.37	3,511	98986301
NK 32-160/172	0.55	3,683	98986345
NK 32-160/173	0.75	3,699	98973535
NK 32-200.1/175	0.37	3,543	98986346
NK 32-200.1/196	0.55	3,718	98986348
NK 32-200.1/207	0.75	3,734	98973557
NK 32-200/184	0.55	3,744	98986349
NK 32-200/197	0.75	3,762	98973559
NK 32-200/216	1.1	3,842	98973561
NK 32-200/219	1.5	3,900	98973563
NK 32-250/206	0.75	4,235	98973537
NK 32-250/236	1.1	4,316	98973539
NK 32-250/260	1.5	4,376	98973553
NK 32-250/262	2.2	4,536	98973555
NK 40-125/116	0.25	3,299	98986475
NK 40-125/130	0.37	3,325	98986476
NK 40-125/142	0.55	3,500	98986477
NK 40-160/134	0.37	3,468	98986502
NK 40-160/151	0.55	3,637	98986504
NK 40-160/162	0.75	3,653	98973565
NK 40-160/177	1.1	3,734	98973567
NK 40-200/177	0.75	3,780	98973569
NK 40-200/198	1.1	3,862	98973572
NK 40-200/217	1.5	3,920	98973575
NK 40-200/219	2.2	4,077	98973578
NK 40-250/219	1.5	4,342	98973581
NK 40-250/245	2.2	4,506	98973583
NK 40-250/260	3	4,665	98973585
NK 40-315/283	3	5,410	98973587
NK 40-315/305	4	5,675	98973477
NK 40-315/334	5.5	6,351	98973479
NK 40-315/344	7.5	6,770	98973481
NK 50-125/113	0.37	3,623	98986501
NK 50-125/129	0.55	3,806	98990816
NK 50-125/138	0.75	3,822	98973596
NK 50-125/144	1.1	3,905	98973598
NK 50-160/131	0.55	3,871	98990819
NK 50-160/139	0.75	3,887	98973600
NK 50-160/158	1.1	3,960	98973603
NK 50-160/175	1.5	4,020	98705749
NK 50-160/177	2.2	4,187	98973606
NK 50-200/171	1.1	4,068	98973608
NK 50-200/188	1.5	4,120	98973610
NK 50-200/210	2.2	4,282	98545683
NK 50-200/219	3	4,432	98973612

		380-415V 3ph 50Hz	
	P2	£	Product Code
Model	kW	A2 F A E BQQE	
NK 50-250/221	2.2	4,529	98973614
NK 50-250/241	3	4,676	98973616
NK 50-250/263	4	4,945	98973483
NK 50-315/277	4	6,012	98973485
NK 50-315/303	5.5	6,703	98074516
NK 50-315/331	7.5	7,132	98476310
NK 50-315/344	11	8,169	98973487
NK 65-125/122	0.55	3,907	98876500
NK 65-125/130	0.75	3,936	98973630
NK 65-125/144	1.1	4,011	98973632
NK 65-160/135	0.75	4,036	98973634
NK 65-160/149	1.1	4,121	98973636
NK 65-160/165	1.5	4,179	98973639
NK 65-160/177	2.2	4,340	98973641
NK 65-200/170	1.5	4,457	98973643
NK 65-200/189	2.2	4,615	98973645
NK 65-200/205	3	4,769	98973647
NK 65-200/219	4	5,054	98973489
NK 65-250/215	3	5,463	98973663
NK 65-250/232	4	5,730	98973491
NK 65-250/254	5.5	6,367	98973493
NK 65-250/270	7.5	6,638	98144820
NK 65-315/261	5.5	6,676	98973495
NK 65-315/282	7.5	6,953	98973497
NK 65-315/314	11	7,914	98074514
NK 65-315/320	15	8,258	98973499
NK 80-160/146	1.5	4,192	98973677
NK 80-160/161	2.2	4,354	98973679
NK 80-160/175	3	4,504	98973681
NK 80-160/177	4	4,760	98476627
NK 80-200/164	2.2	5,133	98973685
NK 80-200/179	3	5,276	98973687
NK 80-200/196	4	5,545	98973501
NK 80-200/214	5.5	6,141	98144818
NK 80-200/222	7.5	6,406	98973503
NK 80-250/225	5.5	6,590	98973505
NK 80-250/247	7.5	6,895	98973507
NK 80-250/270	11	7,905	98476530
NK 80-315/280	11	8,234	98973510
NK 80-315/305	15	8,569	98074512
NK 80-315/320	18.5	9,708	98972335
NK 80-315/334	22	10,144	98972337
NK 80-400/347	18.5	12,576	98972339
NK 80-400/365	22	13,316	98972341
NK 80-400/397	30	14,919	98972344
NK 80-400/419	37	16,524	98972346
NK 80-400/438	45	17,800	98972350
NK 100-160/160-140	2.2	4,681	98973421
NK 100-160/169	3	4,847	98973408
NK 100-160/176	4	5,106	98973730
NK 100-200/178	4	5,970	98973513
NK 100-200/195	5.5	6,606	98973515
NK 100-200/211	7.5	6,890	98847691
NK 100-200/219	11	7,920	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	380-415V 3ph 50Hz	
		£	Product Code
		A2 F A E BQQE	
NK 100-250/215	7.5	7,161	98973704
NK 100-250/245	11	8,189	98973702
NK 100-250/274	15	8,548	98973690
NK 100-315/279	15	9,247	98973517
NK 100-315/295	18.5	10,390	98972358
NK 100-315/312	22	10,820	98972360
NK 100-315/334	30	12,390	98607734
NK 100-400/334	22	13,645	98973241
NK 100-400/360	30	15,250	98973240
NK 100-400/375	37	16,846	98973239
NK 100-400/395	45	18,119	98973238
NK 100-400/415	55	20,770	98973236
NK 125-200/176-154	5.5	7,394	98973713
NK 125-200/196-180	7.5	7,667	98973711
NK 125-200/219	11	8,716	98973710
NK 125-200/226	15	9,058	98973708
NK 125-250/220	11	8,572	98973519
NK 125-250/236	15	8,902	98663368
NK 125-250/249	18.5	10,040	98731075
NK 125-250/262	22	10,482	98476605
NK 125-250/269	30	12,041	98663363
NK 125-315/275	18.5	12,563	98972366
NK 125-315/290	22	12,909	98780297
NK 125-315/317	30	14,518	98972368
NK 125-315/336	37	16,118	98972370
NK 125-315/338	45	17,395	98972372
NK 125-400/345	37	16,942	98972374
NK 125-400/368	45	18,209	98972376
NK 125-400/392	55	20,859	98972378
NK 125-400/433	75	23,791	98424188
NK 125-400/438	90	26,168	98972380
NK 125-500/406	55	24,557	98972382
NK 125-500/447	75	27,642	98972384
NK 125-500/473	90	30,140	98972386
NK 125-500/500	110	38,988	98972389
NK 125-500/526	132	40,021	98531708
NK 125-500/548	160	42,644	98972391
NK 150-200/210-158	7.5	8,892	98973521
NK 150-200/218-208	11	10,430	98244644
NK 150-200/224	15	10,783	98780294
NK 150-250/226-214	15	11,728	98918826
NK 150-250/230	18.5	12,784	98930113
NK 150-250/242	22	13,316	98964693
NK 150-250/262	30	14,836	98973311
NK 150-250/275	37	16,782	98973308
NK 150-250/282	45	18,087	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	380-415V 3ph 50Hz	
		£	Product Code
		A2 F A E BQQE	
NK 150-315.2/250	22	13,880	99001706
NK 150-315.2/275	30	15,507	99001707
NK 150-315.2/294	37	16,836	99001708
NK 150-315.2/314	45	18,030	99001710
NK 150-315.2/334	55	20,777	99001711
NK 150-315.2/342	75	23,471	99001713
NK 150-315/260	30	15,676	98972397
NK 150-315/275	37	17,271	98698281
NK 150-315/291	45	18,549	98972399
NK 150-315/310	55	21,189	98972401
NK 150-315/336	75	24,120	98519153
NK 150-315/338	90	26,506	98972402
NK 150-400/343	55	22,784	98972405
NK 150-400/375	75	25,904	98877246
NK 150-400/394	90	28,409	98606356
NK 150-400/412	110	37,332	98698280
NK 150-400/431	132	38,362	98531710
NK 150-400/438	160	40,965	98464513
NK 150-500/459	132	40,969	98972407
NK 150-500/489	160	43,555	98531731
NK 150-500/521	200	48,131	98531733
NK 200-400/280	37	27,780	98973136
NK 200-400/296	45	29,063	98973138
NK 200-400/312	55	30,770	98973140
NK 200-400/344	75	32,424	98973142
NK 200-400/364	90	33,832	98973143
NK 200-400/392	110	37,875	98973145
NK 200-400/404	132	39,455	98531734
NK 200-450/367	75	33,734	98973092
NK 200-450/391	90	35,142	98973094
NK 200-450/415	110	42,063	98973096
NK 200-450/435	132	43,643	98531735
NK 200-450/455	160	46,128	98973099
NK 250-350/266	37	29,917	98476353
NK 250-350/294	45	31,872	98573828
NK 250-350/318	55	33,930	98973065
NK 250-350/362	75	39,192	98973067
NK 250-350/370	90	41,271	98973070
NK 250-400/281	45	33,768	98973048
NK 250-400/301	55	35,826	98973049
NK 250-400/329	75	41,088	98973050
NK 250-400/349	90	43,167	98973051
NK 250-400/365	110	45,652	98973052
NK 250-400/385	132	47,260	98854358
NK 250-400/405	160	49,686	98643120
NK 250-450/325	75	41,449	98973182
NK 250-450/341	90	43,497	98973184
NK 250-450/361	110	45,943	98973186
NK 250-450/381	132	47,844	98973188
NK 250-450/401	160	POA	98973189
NK 250-450/445	200	POA	98973191
NK 250-500/417	160	POA	98973072
NK 250-500/445	200	POA	98973074
NK 250-500/485	250	POA	98973076
NK 250-500/525	315	POA	98973078



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

COMPLETE WITH 6 POLES / 960 RPM IE3 MOTORS

Model	P2 kW	380-415V 3ph 50Hz	
		£	Product Code
		A2 F A E BQQE	
NK 100-160/169	0.75	5,283	98973351
NK 100-160/176	1.1	5,371	98973349
NK 100-200/182	1.1	6,175	98972409
NK 100-200/193	1.5	6,332	98972410
NK 100-200/214	2.2	6,532	98972412
NK 100-200/219	3	7,197	98972414
NK 100-250/216	2.2	6,850	98973202
NK 100-250/236	3	7,494	98973200
NK 100-250/260	4	7,522	98973198
NK 100-250/274	5.5	8,279	98973196
NK 100-315/272	4	8,304	98972416
NK 100-315/301	5.5	9,000	98972418
NK 100-315/326	7.5	9,690	98972420
NK 100-315/334	11	10,974	98972422
NK 100-400/340	7.5	12,030	98973244
NK 100-400/380	11	13,294	98973243
NK 100-400/415	15	14,410	98973242
NK 125-200/176-150	1.5	7,201	98973281
NK 125-200/196-182	2.2	7,423	98973270
NK 125-200/215	3	8,064	98973269
NK 125-200/226	4	8,112	98973268
NK 125-250/216	3	7,986	98972424
NK 125-250/232	4	8,002	98972426
NK 125-250/253	5.5	8,712	98972428
NK 125-250/269	7.5	9,343	98972429
NK 125-315/275	5.5	10,637	98972431
NK 125-315/297	7.5	11,275	98972433
NK 125-315/335	11	12,572	98972435
NK 125-315/338	15	13,688	98972437
NK 125-400/351	11	13,673	98972439
NK 125-400/384	15	14,790	98972441
NK 125-400/410	18.5	15,985	98972443
NK 125-400/434	22	16,942	98972444
NK 125-400/438	30	18,085	98990844
NK 125-500/421	18.5	19,086	98972448
NK 125-500/445	22	20,073	98972450
NK 125-500/493	30	21,266	98972452
NK 125-500/524	37	22,787	98972458
NK 125-500/546	45	24,673	98972454
NK 125-500/548	55	26,193	98990845
NK 150-200/210-168	2.2	8,752	98972460
NK 150-200/218-200	3	9,381	98972462
NK 150-200/224	4	9,406	98972464
NK 150-250/235	5.5	11,163	98973318
NK 150-250/252	7.5	11,822	98973316
NK 150-250/282	11.0	13,160	98973314
NK 150-315.2/259	7.5	13,683	99001714
NK 150-315.2/293	11.0	14,986	99001715
NK 150-315.2/328	15.0	15,176	99001716
NK 150-315.2/342	18.5	17,176	99001717
NK 150-315/280	11.0	15,055	98972465
NK 150-315/305	15.0	16,138	98972467
NK 150-315/322	18.5	17,261	98972469
NK 150-315/337	22.0	18,219	98737868
NK 150-315/338	30.0	19,432	98972471

COUNTER FLANGES

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

Model	P2 kW	380-415V 3ph 50Hz	
		£	Product Code
		A2 F A E BQQE	
NK 150-400/357	18.5	18,943	98972473
NK 150-400/375	22	19,936	98972475
NK 150-400/408	30	21,210	98972478
NK 150-400/430	37	22,742	98972480
NK 150-400/438	45	24,641	98972482
NK 150-500/457	37	25,202	98972484
NK 150-500/483	45	27,088	98972486
NK 150-500/513	55	28,607	98972488
NK 150-500/548	75	30,651	98972490
NK 200-400/308	15	23,592	98973148
NK 200-400/328	18.5	24,665	98973150
NK 200-400/348	22	26,382	98973153
NK 200-400/384	30	28,008	98973154
NK 200-400/404	37	30,028	98973156
NK 200-450/355	18.5	25,338	98973101
NK 200-450/371	22	27,376	98973103
NK 200-450/407	30	29,320	98973106
NK 200-450/431	37	31,340	98973108
NK 200-450/451	45	33,362	98973110
NK 250-350/277	11	24,784	98476332
NK 250-350/306	15	26,630	98973091
NK 250-350/330	18.5	28,041	98973093
NK 250-350/366	22	29,456	98973095
NK 250-400/289	15	26,897	98973053
NK 250-400/313	18.5	28,307	98973054
NK 250-400/329	22	29,723	98973055
NK 250-400/361	30	32,679	98973056
NK 250-400/381	37	34,407	98973057
NK 250-400/401	45	35,807	98973058
NK 250-450/313	18.5	28,900	98973193
NK 250-450/325	22	30,298	98973195
NK 250-450/357	30	33,203	98973197
NK 250-450/377	37	34,902	98973199
NK 250-450/397	45	36,284	98973201
NK 250-450/433	55	37,981	98973203
NK 250-500/409	45	41,170	98973097
NK 250-500/437	55	43,188	98973098
NK 250-500/485	75	49,792	98973100
NK 250-500/525	90	POA	98973102

ELECTRIC MOTOR

Motors up to and including 3kW are 3 x 220-240D/380-420Y 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	380-480/500V 3ph 50/60Hz	
			£	Product code
			A2 F A E BQQE	
NKE 32-125.1/110	1.1	0 - 2.5 bar	5,055	98987155
NKE 32-125.1/121	1.5	0 - 2.5 bar	5,249	98990856
NKE 32-125.1/140	2.2	0 - 4 bar	5,627	98990857
NKE 32-125/106	1.1	0 - 1.6 bar	5,105	98990858
NKE 32-125/115	1.5	0 - 2.5 bar	5,299	98990859
NKE 32-125/130	2.2	0 - 2.5 bar	5,674	98990860
NKE 32-125/142	3	0 - 4 bar	6,253	99105881
NKE 32-160.1/139	1.5	0 - 2.5 bar	5,383	98990862
NKE 32-160.1/155	2.2	0 - 4 bar	5,755	98990863
NKE 32-160.1/169	3	0 - 4 bar	6,337	99106228
NKE 32-160.1/177	4	0 - 6 bar	6,888	99106230
NKE 32-160/139	2.2	0 - 4 bar	5,820	98990866
NKE 32-160/151	3	0 - 4 bar	6,407	99105883
NKE 32-160/163	4	0 - 4 bar	6,957	99105885
NKE 32-160/177	5.5	0 - 6 bar	7,623	99105886
NKE 32-200.1/172	3	0 - 4 bar	6,428	99106232
NKE 32-200.1/188	4	0 - 6 bar	6,978	99106233
NKE 32-200.1/205	5.5	0 - 6 bar	7,643	99106234
NKE 32-200.1/207	7.5	0 - 6 bar	8,583	99099256
NKE 32-200/176	4	0 - 4 bar	7,004	99105889
NKE 32-200/190	5.5	0 - 6 bar	7,681	99105890
NKE 32-200/206	7.5	0 - 6 bar	8,614	99099260
NKE 32-200/219	11	0 - 10 bar	10,460	99099262
NKE 32-250/199	5.5	0 - 6 bar	8,182	99105892
NKE 32-250/219	7.5	0 - 10 bar	9,127	99099266
NKE 32-250/244	11	0 - 10 bar	11,015	99099270
NKE 32-250/262	15	0 - 10 bar	12,522	97944779
NKE 40-125/105	1.5	0 - 1.6 bar	5,351	98990878
NKE 40-125/116	2.2	0 - 2.5 bar	5,729	98990879
NKE 40-125/127	3	0 - 2.5 bar	6,300	99105893
NKE 40-125/139	4	0 - 4 bar	6,855	99105895
NKE 40-125/142	5.5	0 - 4 bar	7,526	99105897
NKE 40-160/144	4	0 - 4 bar	6,992	99105898
NKE 40-160/158	5.5	0 - 4 bar	7,663	99105899
NKE 40-160/172	7.5	0 - 6 bar	8,594	99099273
NKE 40-160/177	11	0 - 6 bar	10,438	99098780
NKE 40-200/172	5.5	0 - 4 bar	7,796	99105901
NKE 40-200/188	7.5	0 - 6 bar	8,718	99099276
NKE 40-200/206	11	0 - 6 bar	10,569	99099281
NKE 40-200/219	15	0 - 10 bar	12,041	98991028
NKE 40-250/211	11	0 - 10 bar	11,082	99099284
NKE 40-250/230	15	0 - 10 bar	12,582	98991030
NKE 40-250/245	18.5	0 - 10 bar	13,975	98973470
NKE 40-250/255	22	0 - 10 bar	15,944	98973472
NKE 40-315/273	22	0 - 10 bar	16,620	98973474
NKE 50-125/111	3	0 - 1.6 bar	6,536	99105902
NKE 50-125/121	4	0 - 2.5 bar	7,092	99105903
NKE 50-125/135	5.5	0 - 4 bar	7,838	99105904
NKE 50-125/144	7.5	0 - 4 bar	8,708	99099287
NKE 50-160/136	5.5	0 - 4 bar	7,875	99105905
NKE 50-160/150	7.5	0 - 4 bar	8,745	99099291
NKE 50-160/167	11	0 - 4 bar	10,587	99099294
NKE 50-160/177	15	0 - 6 bar	12,065	98991038
NKE 50-200/181	11	0 - 6 bar	10,678	99099298
NKE 50-200/198	15	0 - 6 bar	12,157	98991040
NKE 50-200/210	18.5	0 - 10 bar	13,539	98973494
NKE 50-200/219	22	0 - 10 bar	15,448	98973496
NKE 50-250/205	15	0 - 6 bar	12,399	98991041
NKE 50-250/222	18.5	0 - 10 bar	13,773	98973500
NKE 50-250/233	22	0 - 10 bar	15,689	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	380-480/500V 3ph 50/60Hz	
			£	Product code
			A2 F A E BQQE	
NKE 65-125/120-110	4	0 - 1.6 bar	7,278	99105906
NKE 65-125/127	5.5	0 - 2.5 bar	8,037	99105907
NKE 65-125/137	7.5	0 - 2.5 bar	8,910	99099301
NKE 65-125/144	11	0 - 4 bar	10,784	99098777
NKE 65-160/143	7.5	0 - 4 bar	9,004	99099305
NKE 65-160/157	11	0 - 4 bar	10,872	99099308
NKE 65-160/173	15	0 - 6 bar	12,379	98147969
NKE 65-160/177	18.5	0 - 6 bar	13,771	98973512
NKE 65-200/162	11	0 - 4 bar	11,195	99099312
NKE 65-200/177	15	0 - 6 bar	12,700	98991049
NKE 65-200/190	18.5	0 - 6 bar	14,096	98973518
NKE 65-200/198	22	0 - 6 bar	16,058	98973520
NKE 80-160/147-127	11	0 - 2.5 bar	10,845	99099316
NKE 80-160/151	15	0 - 4 bar	12,312	98991051
NKE 80-160/161	18.5	0 - 4 bar	13,695	98973528
NKE 80-160/167	22	0 - 4 bar	15,608	98973531
NKE 80-200/171	22	0 - 6 bar	16,374	98973533
NKE 100-160/160-154	18.5	0 - 4 bar	14,076	98973404
NKE 100-160/167	22	0 - 4 bar	16,022	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	380-480/500V 3ph 50/60Hz	
			£	Product code
			A2 F A E BQQE	
NKE 32-160.1/177	0.55	0 - 1.6 bar	5,011	98991108
NKE 32-160/172	0.55	0 - 1.6 bar	5,076	98991110
NKE 32-160/173	0.75	0 - 1.6 bar	5,135	98991112
NKE 32-200.1/196	0.55	0 - 1.6 bar	5,107	98991113
NKE 32-200.1/207	0.75	0 - 1.6 bar	5,165	98991115
NKE 32-200/184	0.55	0 - 1.6 bar	5,135	98991135
NKE 32-200/197	0.75	0 - 1.6 bar	5,195	98991137
NKE 32-200/216	1.1	0 - 2.5 bar	5,299	98991138
NKE 32-200/219	1.5	0 - 2.5 bar	5,446	99105827
NKE 32-250/206	0.75	0 - 1.6 bar	5,652	98991140
NKE 32-250/236	1.1	0 - 2.5 bar	5,759	98991151
NKE 32-250/260	1.5	0 - 2.5 bar	5,907	99105828
NKE 32-250/262	2.20	0 - 2.5 bar	6,378	99105829
NKE 40-125/142	0.55	0 - 1.0 bar	4,980	98991158
NKE 40-160/151	0.55	0 - 1.0 bar	5,115	98991160
NKE 40-160/162	0.75	0 - 1.0 bar	5,173	99104772
NKE 40-160/177	1.1	0 - 1.6 bar	5,280	99104784
NKE 40-200/177	0.75	0 - 1.6 bar	5,299	99104788
NKE 40-200/198	1.1	0 - 1.6 bar	5,408	99104789
NKE 40-200/217	1.5	0 - 1.6 bar	5,555	99105830
NKE 40-200/219	2.2	0 - 2.5 bar	6,027	99105831
NKE 40-250/219	1.5	0 - 2.5 bar	5,975	99105832
NKE 40-250/245	2.2	0 - 2.5 bar	6,454	99105834
NKE 40-250/260	3	0 - 2.5 bar	6,939	99105835
NKE 40-315/283	3	0 - 4 bar	7,678	99105836
NKE 40-315/305	4	0 - 4 bar	8,260	99099319
NKE 40-315/334	5.5	0 - 4 bar	9,465	99099322
NKE 40-315/344	7.5	0 - 6 bar	10,462	99099327
NKE 50-125/129	0.55	0 - 0.6 bar	5,202	99104790
NKE 50-125/138	0.75	0 - 1.0 bar	5,260	99104791
NKE 50-125/144	1.1	0 - 1.0 bar	5,367	99104792
NKE 50-160/131	0.55	0 - 0.6 bar	5,265	99104795
NKE 50-160/139	0.75	0 - 1.0 bar	5,323	99104797
NKE 50-160/158	1.1	0 - 1.0 bar	5,422	99104798
NKE 50-160/175	1.5	0 - 1.6 bar	5,569	99105838
NKE 50-160/177	2.2	0 - 1.6 bar	6,048	99105839
NKE 50-200/171	1.1	0 - 1.6 bar	5,527	99104799
NKE 50-200/188	1.5	0 - 1.6 bar	5,666	99105841
NKE 50-200/210	2.2	0 - 1.6 bar	6,140	99105842
NKE 50-200/219	3	0 - 2.5 bar	6,614	99105843
NKE 50-250/221	2.2	0 - 2.5 bar	6,382	99105845
NKE 50-250/241	3	0 - 2.5 bar	6,850	99105846
NKE 50-250/263	4	0 - 2.5 bar	7,432	99099330
NKE 50-315/277	4	0 - 4 bar	8,467	99099343
NKE 50-315/303	5.5	0 - 4 bar	9,672	99099346
NKE 50-315/331	7.5	0 - 6 bar	10,668	99099350
NKE 50-315/344	11	0 - 6 bar	12,738	98973627
NKE 65-125/122	0.55	0 - 0.6 bar	5,383	99104800
NKE 65-125/130	0.75	0 - 0.6 bar	5,453	99104802
NKE 65-125/144	1.1	0 - 1.0 bar	5,555	99104803
NKE 65-160/135	0.75	0 - 1.0 bar	5,553	99104804
NKE 65-160/149	1.1	0 - 1.0 bar	5,666	99104805
NKE 65-160/165	1.5	0 - 1.0 bar	5,813	99105847
NKE 65-160/177	2.2	0 - 1.6 bar	6,289	99105848
NKE 65-200/170	1.5	0 - 1.6 bar	6,088	99105850
NKE 65-200/189	2.2	0 - 1.6 bar	6,562	99105851
NKE 65-200/205	3	0 - 1.6 bar	7,042	99105852
NKE 65-200/219	4	0 - 2.5 bar	7,645	99099354
NKE 65-250/215	3	0 - 2.5 bar	7,730	99105864
NKE 65-250/232	4	0 - 2.5 bar	8,315	99099357
NKE 65-250/254	5.5	0 - 2.5 bar	9,481	99099360
NKE 65-250/270	7.5	0 - 4 bar	10,330	99099364
NKE 65-315/261	5.5	0 - 2.5 bar	9,788	99099368
NKE 65-315/282	7.5	0 - 4 bar	10,643	99099371
NKE 65-315/314	11	0 - 4 bar	12,661	98951019
NKE 65-315/320	15	0 - 4 bar	13,805	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	380-480/500V 3ph 50/60Hz	
			£	Product code
			A2 F A E BQQE	
NKE 80-160/146	1.5	0 - 1.0 bar	5,827	99105867
NKE 80-160/161	2.2	0 - 1.0 bar	6,303	99105868
NKE 80-160/175	3	0 - 1.6 bar	6,778	99105870
NKE 80-160/177	4	0 - 1.6 bar	7,353	99099374
NKE 80-200/164	2.2	0 - 1.0 bar	7,076	99105871
NKE 80-200/179	3	0 - 1.6 bar	7,545	99105872
NKE 80-200/196	4	0 - 1.6 bar	8,132	99099379
NKE 80-200/214	5.5	0 - 2.5 bar	9,259	99099382
NKE 80-200/222	7.5	0 - 2.5 bar	10,099	99099385
NKE 80-250/225	5.5	0 - 2.5 bar	9,705	99099390
NKE 80-250/247	7.5	0 - 2.5 bar	10,585	99099393
NKE 80-250/270	11	0 - 4 bar	12,649	98973712
NKE 80-315/280	11	0 - 4 bar	12,977	98973714
NKE 80-315/305	15	0 - 4 bar	14,114	98951018
NKE 80-315/320	18.5	0 - 4 bar	16,340	99495748
NKE 80-400/347	18.5	0 - 6 bar	18,933	99104808
NKE 100-160/160-140	2.2	0 - 1.0 bar	6,628	99105873
NKE 100-160/169	3	0 - 1.0 bar	7,120	99105874
NKE 100-160/176	4	0 - 1.0 bar	7,696	99099242
NKE 100-200/178	4	0 - 1.6 bar	8,553	99105875
NKE 100-200/195	5.5	0 - 1.6 bar	9,720	99105877
NKE 100-200/211	7.5	0 - 2.5 bar	10,579	99105878
NKE 100-200/219	11	0 - 2.5 bar	12,665	98122879
NKE 100-250/215	7.5	0 - 2.5 bar	10,849	99099231
NKE 100-250/245	11	0 - 2.5 bar	12,932	98973382
NKE 100-250/274	15	0 - 4 bar	14,094	98973380
NKE 100-315/279	15	0 - 4 bar	14,786	98973729
NKE 100-315/295	18.5	0 - 4 bar	16,764	99104810
NKE 125-200/176-154	5.5	0 - 1.0 bar	10,501	99099238
NKE 125-200/196-180	7.5	0 - 1.6 bar	11,349	99099234
NKE 125-200/219	11	0 - 2.5 bar	13,457	98973390
NKE 125-200/226	15	0 - 2.5 bar	14,600	98973387
NKE 125-250/220	11	0 - 2.5 bar	13,313	98973731
NKE 125-250/236	15	0 - 2.5 bar	14,445	98973733
NKE 125-250/249	18.5	0 - 2.5 bar	16,418	96783217
NKE 125-315/275	18.5	0 - 4 bar	18,836	95108574
NKE 150-200/210-158	7.5	0 - 1.0 bar	12,565	99157805
NKE 150-200/218-208	11	0 - 1.6 bar	15,155	98187001
NKE 150-200/224	15	0 - 1.6 bar	16,311	98965137
NKE 150-250/226-214	15	0 - 1.6 bar	17,249	98973400
NKE 150-250/230	18.5	0 - 2.5 bar	19,138	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 designed 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	81	419901	32mm	81	419902
DN 40	PN10/16	1"½ BSPF	98	429902	40mm	106	429901
DN 50	PN10/16	2" BSPF	116	339903	50mm	141	339901
DN 65	PN10/16	2"½ BSPF	81	349902	65mm	81	349904
DN 80	PN10/16	3" BSPF	98	350540	80mm	98	350541
DN 100	PN10/16	4" BSPF	116	369901	100mm	92	96569188
DN 125	PN10/16	-	-	-	125mm	287	96414677
DN 150	PN10/16	-	-	-	150mm	308	96414676
DN 200	PN10	-	-	-	200mm	327	96413358
DN 250	PN10	-	-	-	250mm	349	96691156
DN 300	PN10	-	-	-	300mm	369	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	294	99033768
Danfoss MBS 3000	1/2" BSPM	0-4 bar	294	96637450
Danfoss MBS 3000	1/2" BSPM	0-6 bar	294	96637451
Danfoss MBS 3000	1/2" BSPM	0-10 bar	294	96637452
Danfoss MBS 3000	1/2" BSPM	0-16 bar	294	96637453
Danfoss MBS 3000	1/2" BSPM	0-25 bar	294	91072079

without cable

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	677	96483573
Danfoss MBS 3000	1/2" BSPM	0-60 bar	677	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 devices	461	98046408

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

CATEGORY 2 - CRI 1s and CRI 1 304 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz
COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

			230V 1ph 50Hz		400V 3ph 50Hz	
	P2	Pipe	£	Product Code	£	Product Code
Model	kW	connection	A CA A V HQV		A CA A V HQV	
CRI 1s-2	0.37	32mm	1007	96531799	955	96515806
CRI 1s-3	0.37	32mm	1035	96531840	986	96515807
CRI 1s-4	0.37	32mm	1067	96531842	1,017	96515808
CRI 1s-5	0.37	32mm	1097	96531843	1,047	96515810
CRI 1s-6	0.37	32mm	1127	96531845	1,076	96515811
CRI 1s-7	0.37	32mm	1159	96531847	1,108	96515813
CRI 1s-8	0.37	32mm	1188	96531849	1,137	96515815
CRI 1s-9	0.37	32mm	1218	96531871	1,166	96515817
CRI 1s-10	0.37	32mm	1247	96531873	1,196	96515818
CRI 1s-11	0.37	32mm	1278	96531875	1,228	96515820
CRI 1s-12	0.37	32mm	1308	96531878	1,257	96515821
CRI 1s-13	0.37	32mm	1337	96531890	1,287	96515822
CRI 1s-15	0.55	32mm	1456	96531891	1,383	96515823
CRI 1s-17	0.55	32mm	1500	96531893	1,428	96515824
CRI 1s-19	0.55	32mm	1578	96531898	1,505	96515825
			A FGJ A V HQV		A FGJ A V HQV	
CRI 1s-21	0.75	DN 25/32	1824	96531896	1,695	96527621
CRI 1s-23	0.75	DN 25/32	1900	96531930	1,773	96527622
CRI 1s-25	0.75	DN 25/32	1979	96531932	1,850	96527623
CRI 1s-27	1.1	DN 25/32	2181	96533036	1,972	96527624
CRI 1s-30	1.1	DN 25/32	2354	96533037	2,145	96527625
CRI 1s-33	1.1	DN 25/32	2467	96533038	2,258	96527626
CRI 1s-36	1.1	DN 25/32	2581	96533039	2,373	96527627
			A CA A V HQV		A CA A V HQV	
CRI 1-2	0.37	32mm	993	96532164	943	96516338
CRI 1-3	0.37	32mm	1023	96532165	972	96516339
CRI 1-4	0.37	32mm	1053	96532166	1,004	96516340
CRI 1-5	0.37	32mm	1084	96532167	1,033	96516341
CRI 1-6	0.37	32mm	1114	96532168	1,062	96516342
CRI 1-7	0.37	32mm	1146	96532169	1,094	96516343
CRI 1-8	0.55	32mm	1174	96532170	1,102	96516344
CRI 1-9	0.55	32mm	1213	96532171	1,139	96516345
CRI 1-10	0.55	32mm	1260	96532172	1,188	96516346
CRI 1-11	0.55	32mm	1308	96532173	1,236	96516347
CRI 1-12	0.75	32mm	1407	96532482	1,278	96516348
CRI 1-13	0.75	32mm	1463	96532489	1,335	96516349
CRI 1-15	0.75	32mm	1558	96532497	1,431	96516350
CRI 1-17	1.1	32mm	1735	96533345	1,528	96516351
CRI 1-19	1.1	32mm	1831	96533346	1,623	96516352
			A FGJ A V HQV		A FGJ A V HQV	
CRI 1-21	1.1	DN 25/32	1988	96533347	1,781	96530620
CRI 1-23	1.1	DN 25/32	2067	96533348	1,858	96529493
CRI 1-25	1.5	DN 25/32	2392	96533349	2,111	96530621
CRI 1-27	1.5	DN 25/32	2523	96533350	2,242	96530622
CRI 1-30	1.5	DN 25/32	2664	96533352	2,384	96530623
CRI 1-33	2.2	DN 25/32	2985	96556933	2,680	96530624
CRI 1-36	2.2	DN 25/32	3126	96533354	2,822	96530625

REMEMBER : PUMPS with CA Bases normally need 2x 2 Bolt Oval Flanges - see page 47

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 60 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

CRI 1s, 1, 3 & 5 pumps with CA base are supplied **without** pipe connections.

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

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

Please see page 46/47 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	Pipe connection	230V 1ph 50Hz		400V 3ph 50Hz	
			£	Product Code	£	Product Code
			A CA A V HQQV		A CA A V HQQV	
CRI 3-2	0.37	32mm	969	96533184	919	96516743
CRI 3-3	0.37	32mm	1011	96533208	961	96516744
CRI 3-4	0.37	32mm	1060	96533210	1,009	96516745
CRI 3-5	0.37	32mm	1102	96533212	1,051	96516746
CRI 3-6	0.55	32mm	1139	96533214	1,067	96516747
CRI 3-7	0.55	32mm	1192	96533215	1,121	96516748
CRI 3-8	0.75	32mm	1305	96533216	1,178	96516749
CRI 3-9	0.75	32mm	1357	96533217	1,228	96516750
CRI 3-10	0.75	32mm	1407	96533218	1,278	96516751
CRI 3-11	1.1	32mm	1564	96533219	1,357	96516752
CRI 3-12	1.1	32mm	1620	96533220	1,412	96516753
CRI 3-13	1.1	32mm	1676	96533221	1,468	96516754
CRI 3-15	1.1	32mm	1791	96533222	1,583	96516756
			A FGJ A V HQQV		A FGJ A V HQQV	
CRI 3-17	1.5	DN 25/32	2,141	96533223	1,860	96527929
CRI 3-19	1.5	DN 25/32	2,250	96533224	1,970	96527930
CRI 3-21	2.2	DN 25/32	2,350	96533225	2,044	96527931
CRI 3-23	2.2	DN 25/32	2,464	96533226	2,159	96527941
CRI 3-25	2.2	DN 25/32	2,579	96533227	2,275	96527942
CRI 3-27	2.2	DN 25/32	2,690	96533228	2,386	96527943
CRI 3-29	2.2	DN 25/32	2,806	96533229	2,502	96527944
CRI 3-31	3	DN 25/32	-	-	2,555	96527945
CRI 3-33	3	DN 25/32	-	-	2,694	96527948
CRI 3-36	3	DN 25/32	-	-	2,835	96527949
			A CA A V HQQV		A CA A V HQQV	
CRI 5-2	0.37	32mm	1,094	96533277	1,044	96517120
CRI 5-3	0.55	32mm	1,166	96533278	1,094	96517121
CRI 5-4	0.55	32mm	1,244	96533279	1,172	96517122
CRI 5-5	0.75	32mm	1,393	96533280	1,265	96522106
CRI 5-6	1.1	32mm	1,505	96533281	1,297	96517123
CRI 5-7	1.1	32mm	1,554	96533282	1,345	96517124
CRI 5-8	1.1	32mm	1,602	96533283	1,393	96517125
CRI 5-9	1.5	32mm	1,853	96533284	1,572	96517126
CRI 5-10	1.5	32mm	1,914	96533285	1,634	96517127
CRI 5-11	2.2	32mm	2,079	96533286	1,775	96517128
CRI 5-12	2.2	32mm	2,125	96533287	1,822	96517129
			A FGJ A V HQQV		A FGJ A V HQQV	
CRI 5-13	2.2	DN 25/32	2,237	96533288	1,932	96528032
CRI 5-14	2.2	DN 25/32	2,285	96533289	1,981	96528033
CRI 5-15	2.2	DN 25/32	2,334	96533290	2,028	96528034
CRI 5-16	2.2	DN 25/32	2,379	96533291	2,074	96528035
CRI 5-18	3	DN 25/32	-	-	2,310	96528036
CRI 5-20	3	DN 25/32	-	-	2,408	96528037
CRI 5-22	4	DN 25/32	-	-	2,527	96528038
CRI 5-24	4	DN 25/32	-	-	2,624	96528039
CRI 5-26	4	DN 25/32	-	-	2,731	96528040
CRI 5-29	4	DN 25/32	-	-	2,875	96528041
CRI 5-32	5.5	DN 25/32	-	-	3,252	96528043
CRI 5-36	5.5	DN 25/32	-	-	3,438	96528044

REMEMBER : PUMPS with CA Bases normally need 2x 2 Bolt Oval Flanges - see page 47

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 60 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

CRI 1s, 1, 3 & 5 pumps with CA base are supplied **without** pipe connections.

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

CRI 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 46/47 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

			230V 1ph 50Hz		400V 3ph 50Hz	
	P2	Pipe	£	Product Code	£	Product Code
Model	kW	connection	A CA A V HQQV		A CA A V HQQV	
CRI 10-1	0.37	50mm	1,516	96500939	1,465	96501149
CRI 10-2	0.75	50mm	1,647	96500940	1,518	96501150
CRI 10-3	1.1	50mm	1,959	96500941	1,752	96501151
CRI 10-4	1.5	50mm	2,229	96500942	1,949	96501152
CRI 10-5	2.2	50mm	2,412	96500943	2,109	96501153
CRI 10-6	2.2	50mm	2,523	96500944	2,218	96501154
CRI 10-7	3	50mm	-	-	2,394	96501155
CRI 10-8	3	50mm	-	-	2,502	96501156
CRI 10-9	3	50mm	-	-	2,606	96501157
					A FGJ A V HQQV	
CRI 10-10	4	DN 40	-	-	3,080	96501343
CRI 10-12	4	DN 40	-	-	3,291	96501344
CRI 10-14	5.5	DN 40	-	-	3,820	96501345
CRI 10-16	5.5	DN 40	-	-	4,033	96501346
CRI 10-18	7.5	DN 40	-	-	4,419	96501347
CRI 10-20	7.5	DN 40	-	-	4,623	96501348
CRI 10-22	7.5	DN 40	-	-	4,837	96501349
			A FGJ A V HQQV		A FGJ A V HQQV	
CRI 15-1	1.1	DN 50	2,208	96501685	2,002	96501815
CRI 15-2	2.2	DN 50	2,725	96501686	2,425	96501816
CRI 15-3	3	DN 50	-	-	2,761	96502002
CRI 15-4	4	DN 50	-	-	3,160	96502003
CRI 15-5	4	DN 50	-	-	3,306	96502004
CRI 15-6	5.5	DN 50	-	-	3,891	96502005
CRI 15-7	5.5	DN 50	-	-	4,041	96502006
CRI 15-8	7.5	DN 50	-	-	4,649	96502007
CRI 15-9	7.5	DN 50	-	-	4,793	96502008
CRI 15-10	11	DN 50	-	-	5,634	96502009
CRI 15-12	11	DN 50	-	-	5,928	96502010
CRI 15-14	11	DN 50	-	-	6,220	96502011
CRI 15-17	15	DN 50	-	-	7,896	96502012
			A FGJ A V HQQV		A FGJ A V HQQV	
CRI 20-1	1.1	DN 50	2,185	96500314	1,981	96500436
CRI 20-2	2.2	DN 50	2,712	96500315	2,412	96500437
CRI 20-3	4	DN 50	-	-	3,228	96500609
CRI 20-4	5.5	DN 50	-	-	3,909	96500610
CRI 20-5	5.5	DN 50	-	-	4,060	96500611
CRI 20-6	7.5	DN 50	-	-	4,681	96500612
CRI 20-7	7.5	DN 50	-	-	4,829	96500613
CRI 20-8	11	DN 50	-	-	5,983	96500614
CRI 20-10	11	DN 50	-	-	6,286	96500615
CRI 20-12	15	DN 50	-	-	7,631	96500616
CRI 20-14	15	DN 50	-	-	7,994	96500617
CRI 20-17	18.5	DN 50	-	-	9,426	96500618

REMEMBER : PUMPS with CA Bases normally need 2x 2 Bolt Oval Flanges - see page 47

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 60 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

CRI 10/15/20 pumps with CA base are supplied **without** pipe connections.

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

CRI 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 46/47 for pipe connection accessories and list prices.



CATEGORY 2 - CR32 and CR45 CAST IRON/304 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz
COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	Pipe connection	400V 3ph 50Hz	
			£	Product Code
			A F A V H Q Q V	
CR 32-1-1	1.5	DN 65	2,199	96121978
CR 32-1	2.2	DN 65	2,347	96121979
CR 32-2-2	3	DN 65	2,703	96121980
CR 32-2	4	DN 65	3,158	96122037
CR 32-3-2	5.5	DN 65	3,957	96122038
CR 32-3	5.5	DN 65	3,957	96122039
CR 32-4-2	7.5	DN 65	4,897	96122040
CR 32-4	7.5	DN 65	4,897	96122041
CR 32-5-2	11	DN 65	6,147	96122042
CR 32-5	11	DN 65	6,147	96122043
CR 32-6-2	11	DN 65	6,482	96122044
CR 32-6	11	DN 65	6,482	96122045
CR 32-7-2	15	DN 65	7,620	96122046
CR 32-7	15	DN 65	7,620	96122047
CR 32-8-2	15	DN 65	7,953	96122048
CR 32-8	15	DN 65	7,953	96122049
CR 32-9-2	18.5	DN 65	9,021	96122050
CR 32-9	18.5	DN 65	9,021	96122051
CR 32-10-2	18.5	DN 65	9,350	96122052
CR 32-10	18.5	DN 65	9,350	96122053
CR 32-11-2	22	DN 65	10,477	96122054
CR 32-11	22	DN 65	10,477	96122055
CR 32-12-2	22	DN 65	10,824	96122056
CR 32-12	22	DN 65	10,824	96122057
CR 32-13-2	30	DN 65	12,185	96122058
CR 32-13	30	DN 65	12,185	96122059
CR 32-14-2	30	DN 65	12,517	96122060
CR 32-14	30	DN 65	12,517	96122061
CR 45-1-1	3	DN 80	2,579	96122771
CR 45-1	4	DN 80	3,085	96122822
CR 45-2-2	5.5	DN 80	3,886	96122823
CR 45-2	7.5	DN 80	4,899	96122824
CR 45-3-2	11	DN 80	6,181	96122825
CR 45-3	11	DN 80	6,181	96122826
CR 45-4-2	15	DN 80	7,663	96122827
CR 45-4	15	DN 80	7,663	96122828
CR 45-5-2	18.5	DN 80	9,109	96122829
CR 45-5	18.5	DN 80	9,109	96122830
CR 45-6-2	22	DN 80	10,328	96122831
CR 45-6	22	DN 80	10,328	96122832
CR 45-7-2	30	DN 80	11,256	96122833
CR 45-7	30	DN 80	11,256	96122834
CR 45-8-2	30	DN 80	11,621	96122835
CR 45-8	30	DN 80	11,621	96122836
CR 45-9-2	30	DN 80	11,989	96122837
CR 45-9	37	DN 80	13,050	96122838
CR 45-10-2	37	DN 80	13,386	96122839
CR 45-10	37	DN 80	13,386	96122840
CR 45-11-2	45	DN 80	17,383	96122841
CR 45-11	45	DN 80	17,383	96122842
CR 45-12-2	45	DN 80	17,781	96122843
CR 45-12	45	DN 80	17,781	96122844
CR 45-13-2	45	DN 80	18,180	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 60 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]

Please see page 46/47 for pipe connection accessories and list prices.



CATEGORY 2 - CR64 to CR185 CAST IRON/304 STAINLESS STEEL VERTICAL MULTISTAGE PUMPS 50Hz
COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	Pipe connection	400V 3ph 50Hz	
			£	Product Code
			A F A V HQQV	
CR 64-1-1	4	DN 100	3,048	96123548
CR 64-1	5.5	DN 100	3,963	96123549
CR 64-2-2	7.5	DN 100	4,794	96123550
CR 64-2-1	11	DN 100	5,567	96123551
CR 64-2	11	DN 100	5,567	96123552
CR 64-3-2	15	DN 100	7,391	96123553
CR 64-3-1	15	DN 100	7,391	96123554
CR 64-3	18.5	DN 100	8,487	96123555
CR 64-4-2	18.5	DN 100	8,887	96123556
CR 64-4-1	22	DN 100	9,860	96123557
CR 64-4	22	DN 100	9,860	96123558
CR 64-5-2	30	DN 100	10,515	96123559
CR 64-5-1	30	DN 100	10,515	96123560
CR 64-5	30	DN 100	10,515	96123561
CR 64-6-2	30	DN 100	10,914	96123562
CR 64-6-1	37	DN 100	12,848	96123563
CR 64-6	37	DN 100	12,848	96123564
CR 64-7-2	37	DN 100	13,247	96123565
CR 64-7-1	37	DN 100	13,247	96123566
CR 64-7	45	DN 100	17,466	96123567
CR 64-8-2	45	DN 100	17,859	96123568
CR 64-8-1	45	DN 100	17,859	96123569
CR 95-1-1	5.5	DN 100	4,475	99141746
CR 95-1	7.5	DN 100	5,589	99141747
CR 95-2-2	11	DN 100	7,318	99141748
CR 95-2	15	DN 100	9,115	99141749
CR 95-3-2	18.5	DN 100	10,678	99141750
CR 95-3	22	DN 100	11,942	99141751
CR 95-4	30	DN 100	12,807	99141752
CR 95-5	37	DN 100	15,633	99141753
CR 95-6	45	DN 100	19,794	99141754
CR 95-7	55	DN 100	23,752	99141755
CR 95-8-2	55	DN 100	24,282	99141756
CR 125-1	11	DN 150	7,318	99142581
CR 125-2-2	15	DN 150	9,115	99142582
CR 125-2-1	18.5	DN 150	10,678	99142633
CR 125-2	22	DN 150	11,942	99142634
CR 125-3-1	30	DN 150	12,807	99142636
CR 125-3	37	DN 150	14,970	99142637
CR 125-4-2	37	DN 150	15,633	99142638
CR 125-4	45	DN 150	19,794	99142639
CR 125-5	55	DN 150	24,282	99142640
CR 155-1-1	11	DN 150	7,318	99143262
CR 155-1	15	DN 150	9,115	99143263
CR 155-2-2	22	DN 150	11,942	99143264
CR 155-2	30	DN 150	12,807	99143265
CR 155-3-2	37	DN 150	15,633	99143266
CR 155-3	45	DN 150	19,794	99143267
CR 155-4-1	55	DN 150	24,282	99143268
CR185-1-1	18.5	DN 200	12,564	99143723
CR185-1	22	DN 200	13,794	99143724
CR185-2-2	37	DN 200	17,528	99143725
CR185-2	45	DN 200	21,763	99143726
CR185-3-3	55	DN 200	26,343	99143727
CR185-3	75	DN 200	31,487	99143728
CR185-4-3	75	DN 200	32,280	99143729
CR185-4	90	DN 200	37,568	99143730
CR185-5-3	110	DN 200	42,156	99143731
CR185-5	110	DN 200	42,156	99143732
CR185-6-3	132	DN 200	47,817	99143733
CR185-6	132	DN 200	47,817	99143734
CR185-7-3	160	DN 200	POA	99886987
CR185-7	160	DN 200	POA	99886988
CR185-8-3	200	DN 200	POA	99921027
CR185-8	200	DN 200	POA	99886990

See previous page for further details.



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

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

			230V 1ph 50Hz		400V 3ph 50Hz	
Model	P2 kW	Pipe connection	£	Product Code	£	Product Code
Pumps with DIN Flanged Connection			A FGJ H E HQQE		A FGJ H E HQQE	
CRN 1s-2	0.37	DN 25/32	1,337	96532058	1,287	96531232
CRN 1s-3	0.37	DN 25/32	1,377	96532059	1,327	96531233
CRN 1s-4	0.37	DN 25/32	1,412	96532070	1,361	96531234
CRN 1s-5	0.37	DN 25/32	1,449	96532071	1,399	96531235
CRN 1s-6	0.37	DN 25/32	1,487	96532072	1,435	96496837
CRN 1s-7	0.37	DN 25/32	1,525	96532073	1,474	96531236
CRN 1s-8	0.37	DN 25/32	1,562	96532074	1,512	96531237
CRN 1s-9	0.37	DN 25/32	1,597	96532075	1,546	96496836
CRN 1s-10	0.37	DN 25/32	1,634	96532076	1,583	96531238
CRN 1s-11	0.37	DN 25/32	1,671	96532077	1,620	96531239
CRN 1s-12	0.37	DN 25/32	1,709	96532078	1,658	96531240
CRN 1s-13	0.37	DN 25/32	1,745	96532079	1,695	96496838
CRN 1s-15	0.55	DN 25/32	1,810	96532140	1,739	96531241
CRN 1s-17	0.55	DN 25/32	1,900	96532141	1,829	96531242
CRN 1s-19	0.55	DN 25/32	1,992	96532142	1,919	96531243
CRN 1s-21	0.75	DN 25/32	2,201	96532143	2,074	96531244
CRN 1s-23	0.75	DN 25/32	2,294	96532144	2,165	96531245
CRN 1s-25	0.75	DN 25/32	2,386	96532145	2,258	96531246
CRN 1s-27	1.1	DN 25/32	2,574	96533330	2,366	96531247
CRN 1s-30	1.1	DN 25/32	2,752	96533331	2,544	96531248
CRN 1s-33	1.1	DN 25/32	2,893	96533332	2,686	96531249
CRN 1s-36	1.1	DN 25/32	3,032	96533333	2,824	96531250
Pumps with "PJE" Compatible Connections			A P A E HQQE		A P A E HQQE	
CRN 1s-2	0.37	DN 32	1,047	96532146	995	96516034
CRN 1s-3	0.37	DN 32	1,086	96532147	1,035	96516036
CRN 1s-4	0.37	DN 32	1,121	96532148	1,070	96516037
CRN 1s-5	0.37	DN 32	1,159	96532149	1,108	96516039
CRN 1s-6	0.37	DN 32	1,196	96532150	1,146	96516041
CRN 1s-7	0.37	DN 32	1,233	96532151	1,182	96516043
CRN 1s-8	0.37	DN 32	1,271	96532152	1,220	96516044
CRN 1s-9	0.37	DN 32	1,305	96532153	1,255	96516046
CRN 1s-10	0.37	DN 32	1,343	96532154	1,292	96516047
CRN 1s-11	0.37	DN 32	1,379	96532155	1,329	96516048
CRN 1s-12	0.37	DN 32	1,417	96532156	1,366	96516050
CRN 1s-13	0.37	DN 32	1,456	96532157	1,404	96516051
CRN 1s-15	0.55	DN 32	1,518	96532158	1,447	96516053
CRN 1s-17	0.55	DN 32	1,610	96532159	1,538	96516054
CRN 1s-19	0.55	DN 32	1,701	96532160	1,628	96516056
CRN 1s-21	0.75	DN 32	1,912	96532161	1,783	96516058
CRN 1s-23	0.75	DN 32	2,002	96532162	1,874	96516059
CRN 1s-25	0.75	DN 32	2,095	96532163	1,968	96516061
CRN 1s-27	1.1	DN 32	2,282	96533334	2,074	96516062
CRN 1s-30	1.1	DN 32	2,461	96533335	2,253	96516064
CRN 1s-33	1.1	DN 32	2,603	96533336	2,394	96516066
CRN 1s-36	1.1	DN 32	2,742	96533337	2,533	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 60 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 46/47 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

P2		Pipe	230V 1ph 50Hz		400V 3ph 50Hz	
Model	kW	connection	£	Product Code	£	Product Code
Pumps with DIN Flanged Connection			A FGJ H E HQQE		A FGJ H E HQQE	
CRN 1-2	0.37	DN 25/32	1,337	96533054	1,287	96504923
CRN 1-3	0.37	DN 25/32	1,377	96533057	1,327	96531251
CRN 1-4	0.37	DN 25/32	1,412	96533058	1,361	96531252
CRN 1-5	0.37	DN 25/32	1,449	96533060	1,399	96531253
CRN 1-6	0.37	DN 25/32	1,487	96533068	1,435	96531254
CRN 1-7	0.37	DN 25/32	1,525	96533070	1,474	96531255
CRN 1-8	0.55	DN 25/32	1,570	96533072	1,498	96531256
CRN 1-9	0.55	DN 25/32	1,599	96533075	1,528	96531257
CRN 1-10	0.55	DN 25/32	1,655	96533077	1,583	96531258
CRN 1-11	0.55	DN 25/32	1,709	96533079	1,637	96531259
CRN 1-12	0.75	DN 25/32	1,817	96533083	1,689	96531308
CRN 1-13	0.75	DN 25/32	1,874	96533085	1,745	96531481
CRN 1-15	0.75	DN 25/32	1,984	96533087	1,855	96531482
CRN 1-17	1.1	DN 25/32	2,181	96533092	1,972	96531483
CRN 1-19	1.1	DN 25/32	2,287	96533098	2,079	96531485
CRN 1-21	1.1	DN 25/32	2,400	96533099	2,192	96531486
CRN 1-23	1.1	DN 25/32	2,507	96533100	2,298	96531488
CRN 1-25	1.5	DN 25/32	2,814	96533101	2,533	96531510
CRN 1-27	1.5	DN 25/32	2,923	96533102	2,644	96531512
CRN 1-30	1.5	DN 25/32	3,084	96533103	2,803	96531514
CRN 1-33	2.2	DN 25/32	3,428	96533106	3,122	96531516
CRN 1-36	2.2	DN 25/32	3,588	96533107	3,283	96531519
Pumps with "PJE" Compatible Connections			A P A E HQQE		A P A E HQQE	
CRN 1-2	0.37	DN 32	1,047	96533143	995	96516477
CRN 1-3	0.37	DN 32	1,086	96533145	1,035	96516478
CRN 1-4	0.37	DN 32	1,121	96533146	1,070	96516480
CRN 1-5	0.37	DN 32	1,159	96533147	1,108	96516481
CRN 1-6	0.37	DN 32	1,196	96533148	1,146	96516483
CRN 1-7	0.37	DN 32	1,233	96533149	1,182	96516485
CRN 1-8	0.55	DN 32	1,278	96533151	1,206	96516486
CRN 1-9	0.55	DN 32	1,308	96533152	1,236	96516488
CRN 1-10	0.55	DN 32	1,363	96533153	1,292	96516489
CRN 1-11	0.55	DN 32	1,417	96533154	1,345	96516490
CRN 1-12	0.75	DN 32	1,528	96533155	1,399	96516492
CRN 1-13	0.75	DN 32	1,583	96533157	1,456	96516493
CRN 1-15	0.75	DN 32	1,692	96533158	1,564	96516495
CRN 1-17	1.1	DN 32	1,889	96533160	1,683	96516497
CRN 1-19	1.1	DN 32	1,997	96533161	1,789	96516498
CRN 1-21	1.1	DN 32	2,109	96533162	1,900	96516500
CRN 1-23	1.1	DN 32	2,215	96533164	2,008	96516501
CRN 1-25	1.5	DN 32	2,523	96533166	2,242	96516503
CRN 1-27	1.5	DN 32	2,632	96533168	2,352	96516504
CRN 1-30	1.5	DN 32	2,792	96533170	2,511	96516505
CRN 1-33	2.2	DN 32	3,136	96533171	2,833	96516506
CRN 1-36	2.2	DN 32	3,297	96533172	2,993	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 60 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 46/47 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

			230V 1ph 50Hz		400V 3ph 50Hz	
Model	P2 kW	Pipe connection	£	Product Code	£	Product Code
Pumps with DIN Flanged Connection			A FGJ H E HQQE		A FGJ H E HQQE	
CRN 3-2	0.37	DN 25/32	1,366	96533230	1,317	96531531
CRN 3-3	0.37	DN 25/32	1,419	96533231	1,370	96531533
CRN 3-4	0.37	DN 25/32	1,471	96533232	1,419	96531535
CRN 3-5	0.37	DN 25/32	1,525	96533233	1,474	96531537
CRN 3-6	0.55	DN 25/32	1,597	96533234	1,525	96531540
CRN 3-7	0.55	DN 25/32	1,644	96533235	1,572	96531542
CRN 3-8	0.75	DN 25/32	1,732	96533236	1,604	96531544
CRN 3-9	0.75	DN 25/32	1,785	96533237	1,658	96531546
CRN 3-10	0.75	DN 25/32	1,840	96533238	1,711	96531549
CRN 3-11	1.1	DN 25/32	2,010	96533239	1,801	96531571
CRN 3-12	1.1	DN 25/32	2,063	96533240	1,855	96531573
CRN 3-13	1.1	DN 25/32	2,116	96533241	1,910	96522072
CRN 3-15	1.1	DN 25/32	2,229	96533242	2,021	96531576
CRN 3-17	1.5	DN 25/32	2,541	96533243	2,262	96531578
CRN 3-19	1.5	DN 25/32	2,651	96533244	2,370	96531590
CRN 3-21	2.2	DN 25/32	2,752	96533245	2,448	96531592
CRN 3-23	2.2	DN 25/32	2,859	96533246	2,555	96531594
CRN 3-25	2.2	DN 25/32	2,969	96533247	2,664	96531596
CRN 3-27	2.2	DN 25/32	3,078	96533248	2,774	96531598
CRN 3-29	2.2	DN 25/32	3,185	96533249	2,880	96531610
CRN 3-31	3	DN 25/32	-	-	3,024	96531612
CRN 3-33	3	DN 25/32	-	-	3,132	96531614
CRN 3-36	3	DN 25/32	-	-	3,297	96531616
Pumps with "PJE" Compatible Connections			A P A E HQQE		A P A E HQQE	
CRN 3-2	0.37	DN 32	1,076	96533250	1,025	96516897
CRN 3-3	0.37	DN 32	1,130	96533251	1,078	96484041
CRN 3-4	0.37	DN 32	1,180	96496701	1,130	96516898
CRN 3-5	0.37	DN 32	1,233	96533252	1,182	96516899
CRN 3-6	0.55	DN 32	1,305	96533253	1,233	96516900
CRN 3-7	0.55	DN 32	1,354	96533254	1,281	96493543
CRN 3-8	0.75	DN 32	1,442	96533255	1,313	96516901
CRN 3-9	0.75	DN 32	1,496	96533256	1,366	96516902
CRN 3-10	0.75	DN 32	1,548	96533257	1,419	96499188
CRN 3-11	1.1	DN 32	1,719	96533258	1,512	96516903
CRN 3-12	1.1	DN 32	1,773	96533259	1,564	96516904
CRN 3-13	1.1	DN 32	1,826	96533260	1,618	96516905
CRN 3-15	1.1	DN 32	1,938	96533261	1,729	96516906
CRN 3-17	1.5	DN 32	2,250	96533262	1,970	96505111
CRN 3-19	1.5	DN 32	2,360	96533263	2,079	96516907
CRN 3-21	2.2	DN 32	2,461	96533264	2,157	96516908
CRN 3-23	2.2	DN 32	2,567	96533265	2,264	96516909
CRN 3-25	2.2	DN 32	2,678	96533266	2,373	96516910
CRN 3-27	2.2	DN 32	2,787	96533267	2,482	96516911
CRN 3-29	2.2	DN 32	2,893	96533268	2,590	96516912
CRN 3-31	3	DN 32	-	-	2,734	96516913
CRN 3-33	3	DN 32	-	-	2,840	96516914
CRN 3-36	3	DN 32	-	-	3,005	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 60 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 46/47 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

			230V 1ph 50Hz		400V 3ph 50Hz	
Model	P2 kW	Pipe connection	£	Product Code	£	Product Code
Pumps with DIN Flanged Connection			A FGJ H E HQQE		A FGJ H E HQQE	
CRN 5-2	0.37	DN 25/32	1,465	96533292	1,415	96531650
CRN 5-3	0.55	DN 25/32	1,534	96533293	1,463	96531651
CRN 5-4	0.55	DN 25/32	1,622	96533294	1,550	96531652
CRN 5-5	0.75	DN 25/32	1,784	96533295	1,658	96531653
CRN 5-6	1.1	DN 25/32	1,889	96533296	1,680	96531654
CRN 5-7	1.1	DN 25/32	1,948	96533297	1,740	96531655
CRN 5-8	1.1	DN 25/32	2,001	96533298	1,793	96531656
CRN 5-9	1.5	DN 25/32	2,320	96533299	2,041	96531657
CRN 5-10	1.5	DN 25/32	2,373	96533300	2,094	96531658
CRN 5-11	2.2	DN 25/32	2,574	96533301	2,270	96531659
CRN 5-12	2.2	DN 25/32	2,630	96533302	2,326	96531670
CRN 5-13	2.2	DN 25/32	2,682	96533303	2,379	96531671
CRN 5-14	2.2	DN 25/32	2,736	96533304	2,433	96531672
CRN 5-15	2.2	DN 25/32	2,790	96533305	2,486	96531673
CRN 5-16	2.2	DN 25/32	2,842	96533306	2,539	96531674
CRN 5-18	3	DN 25/32	-	-	2,794	96531675
CRN 5-20	3	DN 25/32	-	-	2,902	96531676
CRN 5-22	4	DN 25/32	-	-	2,993	96531677
CRN 5-24	4	DN 25/32	-	-	3,099	96531678
CRN 5-26	4	DN 25/32	-	-	3,208	96531679
CRN 5-29	4	DN 25/32	-	-	3,370	96531680
CRN 5-32	5.5	DN 25/32	-	-	3,800	96531681
CRN 5-36	5.5	DN 25/32	-	-	4,019	96531682
Pumps with "PJE" Compatible Connections			A P A E HQQE		A P A E HQQE	
CRN 5-2	0.37	DN 32	1,174	96533307	1,125	96517239
CRN 5-3	0.55	DN 32	1,244	96533308	1,172	96517240
CRN 5-4	0.55	DN 32	1,332	96533309	1,260	96517241
CRN 5-5	0.75	DN 32	1,495	96533310	1,366	96517242
CRN 5-6	1.1	DN 32	1,598	96533311	1,391	96517243
CRN 5-7	1.1	DN 32	1,658	96533312	1,449	96517244
CRN 5-8	1.1	DN 32	1,710	96533313	1,503	96517245
CRN 5-9	1.5	DN 32	2,029	96533314	1,750	96517246
CRN 5-10	1.5	DN 32	2,084	96533315	1,805	96492985
CRN 5-11	2.2	DN 32	2,283	96533316	1,980	96517247
CRN 5-12	2.2	DN 32	2,339	96533317	2,036	96517248
CRN 5-13	2.2	DN 32	2,392	96533318	2,088	96517249
CRN 5-14	2.2	DN 32	2,445	96533319	2,142	96517250
CRN 5-15	2.2	DN 32	2,499	96533320	2,196	96517251
CRN 5-16	2.2	DN 32	2,551	96533321	2,248	96517252
CRN 5-18	3	DN 32	-	-	2,505	96517253
CRN 5-20	3	DN 32	-	-	2,611	96517254
CRN 5-22	4	DN 32	-	-	2,702	96513490
CRN 5-24	4	DN 32	-	-	2,808	96513491
CRN 5-26	4	DN 32	-	-	2,917	96513492
CRN 5-29	4	DN 32	-	-	3,080	96513493
CRN 5-32	5.5	DN 32	-	-	3,509	96513494
CRN 5-36	5.5	DN 32	-	-	3,728	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 60 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 46/47 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

	P2	Pipe	230V 1ph 50Hz		400V 3ph 50Hz	
Model	kW	connection	£	Product Code	£	Product Code
Pumps with "PJE" Compatible Connections			A P A E HQQE		A P A E HQQE	
CRN 10-1	0.37	DN 40	1,618	96500897	1,568	96501040
CRN 10-2	0.75	DN 40	1,805	96500898	1,676	96501041
CRN 10-3	1.1	DN 40	2,125	96500899	1,916	96501042
CRN 10-4	1.5	DN 40	2,347	96500900	2,067	96501043
CRN 10-5	2.2	DN 40	2,560	96500901	2,255	96501044
CRN 10-6	2.2	DN 40	2,709	96500902	2,405	96501045
CRN 10-7	3	DN 40	-	-	2,587	96501046
CRN 10-8	3	DN 40	-	-	2,722	96501047
CRN 10-9	3	DN 40	-	-	2,873	96501048
CRN 10-10	4	DN 40	-	-	3,251	96501281
CRN 10-12	4	DN 40	-	-	3,508	96501282
CRN 10-14	5.5	DN 40	-	-	4,090	96501283
CRN 10-16	5.5	DN 40	-	-	4,340	96501284
CRN 10-18	7.5	DN 40	-	-	4,720	96501285
CRN 10-20	7.5	DN 40	-	-	4,978	96501286
CRN 10-22	7.5	DN 40	-	-	5,227	96501287
Pumps with DIN Flanged Connection			A FGJ H E HQQE		A FGJ H E HQQE	
CRN 10-1	0.37	DN 50	2,049	96527731	1,997	96527737
CRN 10-2	0.75	DN 50	2,234	96527732	2,107	96527740
CRN 10-3	1.1	DN 50	2,555	96527733	2,347	96527741
CRN 10-4	1.5	DN 50	2,776	96527734	2,495	96527743
CRN 10-5	2.2	DN 50	2,990	96527735	2,686	96527744
CRN 10-6	2.2	DN 50	3,140	96527736	2,835	96527745
CRN 10-7	3	DN 50	-	-	3,016	96527747
CRN 10-8	3	DN 50	-	-	3,153	96527748
CRN 10-9	3	DN 50	-	-	3,301	96527749
CRN 10-10	4	DN 50	-	-	3,681	96527750
CRN 10-12	4	DN 50	-	-	3,938	96527751
CRN 10-14	5.5	DN 50	-	-	4,519	97509478
CRN 10-16	5.5	DN 50	-	-	4,771	96527753
CRN 10-18	7.5	DN 50	-	-	5,148	96527755
CRN 10-20	7.5	DN 50	-	-	5,408	96527756
CRN 10-22	7.5	DN 50	-	-	5,657	96527758
Pumps with "PJE" Compatible Connections			A P A E HQQE		A P A E HQQE	
CRN 15-1	1.1	DN 50	2,215	96501675	2,010	96501756
CRN 15-2	2.2	DN 50	2,706	96501676	2,407	96501757
CRN 15-3	3	DN 50	-	-	2,759	96501758
CRN 15-4	4	DN 50	-	-	3,194	96501949
CRN 15-5	4	DN 50	-	-	3,374	96501950
CRN 15-6	5.5	DN 50	-	-	4,007	96501951
CRN 15-7	5.5	DN 50	-	-	4,188	96501952
CRN 15-8	7.5	DN 50	-	-	4,861	96501953
CRN 15-9	7.5	DN 50	-	-	5,042	96501954
CRN 15-10	11	DN 50	-	-	5,862	96501955
CRN 15-12	11	DN 50	-	-	6,224	96501956
CRN 15-14	11	DN 50	-	-	6,582	96501957
CRN 15-17	15	DN 50	-	-	8,423	96501958
Pumps with DIN Flanged Connection			A FGJ H E HQQE		A FGJ H E HQQE	
CRN 15-1	1.1	DN 50	2,638	96527776	2,434	96527779
CRN 15-2	2.2	DN 50	3,130	96527777	2,829	96527782
CRN 15-3	3	DN 50	-	-	3,183	96527783
CRN 15-4	4	DN 50	-	-	3,618	96527785
CRN 15-5	4	DN 50	-	-	3,797	96527786
CRN 15-6	5.5	DN 50	-	-	4,430	96527788
CRN 15-7	5.5	DN 50	-	-	4,612	96527789
CRN 15-8	7.5	DN 50	-	-	5,284	96527790
CRN 15-9	7.5	DN 50	-	-	5,466	96527791
CRN 15-10	11	DN 50	-	-	6,286	96527792
CRN 15-12	11	DN 50	-	-	6,648	96527793
CRN 15-14	11	DN 50	-	-	7,005	96527794
CRN 15-17	15	DN 50	-	-	8,848	96527796

Motor specification, reference to accessories and operational details are on page 34.



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

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2	Pipe	230V 1ph 50Hz		400V 3ph 50Hz	
	kW	connection	£	Product Code	£	Product Code
Pumps with "PJE" Compatible Connections			A P A E HQQE		A P A E HQQE	
CRN 20-1	1.1	DN 50	2,262	96500304	2,057	96500381
CRN 20-2	2.2	DN 50	2,759	96500305	2,459	96500382
CRN 20-3	4	DN 50	-	-	3,450	96500559
CRN 20-4	5.5	DN 50	-	-	4,094	96500560
CRN 20-5	5.5	DN 50	-	-	4,282	96500561
CRN 20-6	7.5	DN 50	-	-	4,968	96500562
CRN 20-7	7.5	DN 50	-	-	5,155	96500563
CRN 20-8	11	DN 50	-	-	6,361	96500564
CRN 20-10	11	DN 50	-	-	6,727	96500565
CRN 20-12	15	DN 50	-	-	8,246	96500566
CRN 20-14	15	DN 50	-	-	8,609	96500567
CRN 20-17	18.5	DN 50	-	-	10,224	96500568
Pumps with DIN Flanged Connection			A FGJ H E HQQE		A FGJ H E HQQE	
CRN 20-1	1.1	DN 50	2,686	96527799	2,480	96527802
CRN 20-2	2.2	DN 50	3,184	96527801	2,882	96527805
CRN 20-3	4.0	DN 50	-	-	3,873	96527807
CRN 20-4	5.5	DN 50	-	-	4,518	96527808
CRN 20-5	5.5	DN 50	-	-	4,705	96527809
CRN 20-6	7.5	DN 50	-	-	5,391	96527811
CRN 20-7	7.5	DN 50	-	-	5,579	96527813
CRN 20-8	11	DN 50	-	-	6,784	96527815
CRN 20-10	11	DN 50	-	-	7,150	96527817
CRN 20-12	15	DN 50	-	-	8,671	96527818
CRN 20-14	15	DN 50	-	-	9,033	96527819
CRN 20-17	18.5	DN 50	-	-	10,648	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 60 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 46/47 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 316 St St VERTICAL MULTISTAGE PUMPS 50Hz

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	Pipe connection	380-415V 3ph 50Hz	
			£	Product Code
			A F H E HQQE	
CRN 32-1-1	1.5	DN 65	3,832	96536094
CRN 32-1	2.2	DN 65	4,031	96536114
CRN 32-2-2	3	DN 65	4,398	96536115
CRN 32-2	4	DN 65	4,796	96536116
CRN 32-3-2	5.5	DN 65	5,681	96536119
CRN 32-3	5.5	DN 65	5,681	96536130
CRN 32-4-2	7.5	DN 65	6,776	96536131
CRN 32-4	7.5	DN 65	6,776	96536132
CRN 32-5-2	11	DN 65	8,241	96536133
CRN 32-5	11	DN 65	8,241	96571672
CRN 32-6-2	11	DN 65	8,607	96536136
CRN 32-6	11	DN 65	8,607	96536138
CRN 32-7-2	15	DN 65	10,090	96536143
CRN 32-7	15	DN 65	10,090	96536145
CRN 32-8-2	15	DN 65	10,440	96536146
CRN 32-8	15	DN 65	10,440	96536148
CRN 32-9-2	18.5	DN 65	11,737	96536150
CRN 32-9	18.5	DN 65	11,737	96536152
CRN 32-10-2	18.5	DN 65	12,087	96536154
CRN 32-10	18.5	DN 65	12,087	96536156
CRN 32-11-2	22	DN 65	13,492	96536158
CRN 32-11	22	DN 65	13,492	96536159
CRN 32-12-2	22	DN 65	13,841	96536160
CRN 32-12	22	DN 65	13,841	96536162
CRN 32-13-2	30	DN 65	15,262	96536163
CRN 32-13	30	DN 65	15,262	96633659
CRN 32-14-2	30	DN 65	15,627	96536377
CRN 32-14	30	DN 65	15,627	96536379
A F H E HQQE				
CRN 45-1-1	3	DN 80	4,398	96536405
CRN 45-1	4	DN 80	4,982	96536412
CRN 45-2-2	5.5	DN 80	5,779	96536416
CRN 45-2	7.5	DN 80	6,776	96536421
CRN 45-3-2	11	DN 80	8,257	96536423
CRN 45-3	11	DN 80	8,257	96536424
CRN 45-4-2	15	DN 80	10,108	96610965
CRN 45-4	15	DN 80	10,108	96691398
CRN 45-5-2	18.5	DN 80	11,706	96691399
CRN 45-5	18.5	DN 80	11,706	96560711
CRN 45-6-2	22	DN 80	13,279	96536457
CRN 45-6	22	DN 80	13,279	96536458
CRN 45-7-2	30	DN 80	14,663	96536459
CRN 45-7	30	DN 80	14,663	96536460
CRN 45-8-2	30	DN 80	15,041	96536461
CRN 45-8	30	DN 80	15,041	96536462
CRN 45-9-2	30	DN 80	15,424	96536463
CRN 45-9	37	DN 80	16,643	96536464
CRN 45-10-2	37	DN 80	17,003	96536465
CRN 45-10	37	DN 80	17,003	96536466
CRN 45-11-2	45	DN 80	21,484	96898225
CRN 45-11	45	DN 80	21,484	96536690
CRN 45-12-2	45	DN 80	21,952	96536691
CRN 45-12	45	DN 80	21,952	96536692
CRN 45-13-2	45	DN 80	22,414	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 60 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 46/47 for pipe connection accessories and list prices.



CATEGORY 2 - CRN64, CRN95, CRN125 & CRN155 316 St St VERTICAL MULTISTAGE PUMPS 50Hz
COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

			380-415V 3ph 50Hz	
	P2	Pipe	£	Product Code
Model	kW	connection	A F H E HQQE	
CRN 64-1-1	4	DN 100	5,082	96536483
CRN 64-1	5.5	DN 100	5,904	96536484
CRN 64-2-2	7.5	DN 100	6,892	96536491
CRN 64-2-1	11	DN 100	7,945	96536493
CRN 64-2	11	DN 100	7,945	96536497
CRN 64-3-2	15	DN 100	9,923	96641864
CRN 64-3-1	15	DN 100	9,923	96692772
CRN 64-3	18.5	DN 100	11,134	96620760
CRN 64-4-2	18.5	DN 100	11,555	96692774
CRN 64-4-1	22	DN 100	12,774	96536506
CRN 64-4	22	DN 100	12,774	96536508
CRN 64-5-2	30	DN 100	13,727	96536510
CRN 64-5-1	30	DN 100	13,727	96536512
CRN 64-5	30	DN 100	13,727	96536513
CRN 64-6-2	30	DN 100	14,152	96536515
CRN 64-6-1	37	DN 100	16,366	96536517
CRN 64-6	37	DN 100	16,366	96536524
CRN 64-7-2	37	DN 100	16,751	96536529
CRN 64-7-1	37	DN 100	16,751	96536530
CRN 64-7	45	DN 100	21,748	96536694
CRN 64-8-2	45	DN 100	22,116	96536696
CRN 64-8-1	45	DN 100	22,116	96536697
A F A E HQQE				
CRN 95-1-1	5.5	DN 100	6,174	99141757
CRN 95-1	7.5	DN 100	7,600	99141758
CRN 95-2-2	11	DN 100	9,733	99141759
CRN 95-2	15	DN 100	12,122	99141760
CRN 95-3-2	18.5	DN 100	13,667	99141761
CRN 95-3	22	DN 100	15,285	99141762
CRN 95-4	30	DN 100	17,037	99141763
CRN 95-5	37	DN 100	19,542	99141764
CRN 95-6	45	DN 100	24,542	99141765
CRN 95-7	55	DN 100	29,412	99141766
CRN 95-8-2	55	DN 100	30,112	99141767
A F A E HQQE				
CRN 125-1	11	DN 150	9,917	99142641
CRN 125-2-2	15	DN 150	12,350	99142642
CRN 125-2-1	18.5	DN 150	14,469	99142643
CRN 125-2	22	DN 150	16,185	99142644
CRN 125-3-1	30	DN 150	17,354	99142645
CRN 125-3	37	DN 150	19,530	99142646
CRN 125-4-2	37	DN 150	20,400	99142647
CRN 125-4	45	DN 150	24,834	99142648
CRN 125-5	55	DN 150	30,465	99142649
CRN 125-6	75	DN 150	36,913	99142651
CRN 125-7	75	DN 150	37,780	99142652
CRN 125-8	90	DN 150	39,996	99142653
CRN 125-9-2	90	DN 150	40,866	99142654
CRN 125-9	110	DN 150	46,406	99142655
CRN 125-10	110	DN 150	47,275	99142657
A F A E HQQE				
CRN 155-1-1	11	DN 150	9,882	99143269
CRN 155-1	15	DN 150	12,304	99143270
CRN 155-2-2	22	DN 150	16,124	99143271
CRN 155-2	30	DN 150	17,290	99143272
CRN 155-3-2	37	DN 150	20,325	99143273
CRN 155-3	45	DN 150	24,743	99143274
CRN 155-4-1	55	DN 150	29,869	99143275
CRN 155-5-2	75	DN 150	37,642	99143276
CRN 155-5	75	DN 150	37,642	99143277
CRN 155-6	90	DN 150	41,733	99143279
CRN 155-7	110	DN 150	46,236	99143280
CRN 155-8-2	110	DN 150	47,103	99143281

Motor specification, reference to accessories and operational details are on page 37.



CATEGORY 2 - CRN185 316 St St VERTICAL MULTISTAGE PUMPS 50Hz
COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	Pipe connection
CRN 185-1-1	18.5	DN 200
CRN 185-1	22	DN 200
CRN 185-2-2	37	DN 200
CRN 185-2	45	DN 200
CRN 185-3-3	55	DN 200
CRN 185-3	75	DN 200
CRN 185-4-3	75	DN 200
CRN 185-4	90	DN 200
CRN 185-5-3	110	DN 200
CRN 185-5	110	DN 200
CRN 185-6-3	132	DN 200
CRN 185-6	132	DN 200
CRN 185-7-3	160	DN 200
CRN 185-7	160	DN 200
CRN 185-8-3	200	DN 200
CRN 185-8	200	DN 200

380-415V 3ph 50Hz	
£	Product Code
A F H E HQQE	
16,962	99143735
18,618	99143736
POA	99143737
POA	99143738
POA	99143739
POA	99143740
POA	99143741
POA	99143742
POA	99143743
POA	99143744
POA	99143745
POA	99143746
POA	99143747
POA	99143748
POA	99921028
POA	99143750

ELECTRIC MOTOR

380-415V 3ph 50Hz

IP55 Class F insulation

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

Please see page 60 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 46/47 for pipe connection accessories and list prices.

CATEGORY 2 - CRIE1 to CRIE20**CRIE 304 STAINLESS STEEL VARIABLE SPEED PUMPS WITHOUT SENSOR**

				200-240V 1ph 50/60Hz		380-480/500V 3ph 50/60Hz	
	P2	Pipe	Transducer	£	Product Code	£	Product Code
Model	kW	connection	Range	A CA A E HQQE		A CA A E HQQE	
CRIE 1-4	0.37	32mm	0 - 6 bar	1,740	98389343	1,954	98389360
CRIE 1-6	0.55	32mm	0 - 10 bar	1,896	98389344	2,111	98389361
CRIE 1-9	0.75	32mm	0 - 10 bar	2,109	98389345	2,351	98389362
CRIE 1-13	1.1	32mm	0 - 16 bar	2,505	98389346	2,774	98389363
CRIE 1-17	1.5	32mm	0 - 16 bar	3,143	98389347	3,358	98389364
CRIE 1-25	2.2	32mm	0 - 25 bar	-	-	4,057	98389365
						A FGJ A E HQQE	
CRIE 1-27	3	DN 25/32	0 - 25 bar	-	-	4,866	99072120
				A CA A E HQQE		A CA A E HQQE	
CRIE 3-2	0.37	32mm	0 - 4 bar	1,666	98389726	1,880	98389751
CRIE 3-4	0.55	32mm	0 - 6 bar	1,800	98389727	2,016	98389752
CRIE 3-5	0.75	32mm	0 - 6 bar	1,984	98389728	2,226	98389753
CRIE 3-8	1.1	32mm	0 - 10 bar	2,267	98389729	2,538	98389754
CRIE 3-11	1.5	32mm	0 - 16 bar	2,766	98389730	2,981	98389756
CRIE 3-17	2.2	32mm	0 - 25 bar	-	-	3,705	98389757
						A FGJ A E HQQE	
CRIE 3-23	3	DN 25/32	0 - 25 bar	-	-	4,340	99072151
CRIE 3-25	4	DN 25/32	0 - 25 bar	-	-	5,195	99072152
				A CA A E HQQE		A CA A E HQQE	
CRIE 5-2	0.55	32mm	0 - 4 bar	1,774	98390047	1,989	98390067
CRIE 5-4	1.1	32mm	0 - 6 bar	2,074	98390048	2,342	98390068
CRIE 5-5	1.5	32mm	0 - 6 bar	2,529	98390049	2,745	98390069
CRIE 5-9	2.2	32mm	0 - 10 bar	-	-	3,414	98390070
						A FGJ A E HQQE	
CRIE 5-12	3	DN 25/32	0 - 16 bar	-	-	4,005	99072212
CRIE 5-16	4	DN 25/32	0 - 25 bar	-	-	4,771	99072213
CRIE 5-22	5.5	DN 25/32	0 - 25 bar	-	-	5,772	99072214
CRIE 5-24	7.5	DN 25/32	0 - 25 bar	-	-	6,839	99075981
				A CA A E HQQE		A CA A E HQQE	
CRIE 10-1	0.75	50mm	0 - 4 bar	2,068	98390278	2,310	98390690
CRIE 10-2	1.5	50mm	0 - 4 bar	2,706	98390279	2,922	98390284
CRIE 10-3	2.2	50mm	0 - 6 bar	-	-	3,558	98390285
CRIE 10-5	3	50mm	0 - 10 bar	-	-	4,081	99071462
CRIE 10-6	4	50mm	0 - 10 bar	-	-	4,962	99071463
CRIE 10-9	5.5	50mm	0 - 16 bar	-	-	6,082	99071792
				A FGJ A E HQQE		A FGJ A E HQQE	
CRIE 10-5	3	DN 40	0 - 10 bar	-	-	4,187	99071467
CRIE 10-6	4	DN 40	0 - 10 bar	-	-	5,068	99071469
CRIE 10-9	5.5	DN 40	0 - 16 bar	-	-	6,188	99071799
CRIE 10-12	7.5	DN 40	0 - 25 bar	-	-	7,590	99071800
CRIE 10-17	11	DN 40	0 - 25 bar	-	-	9,809	99071801
CRIE 15-1	1.5	DN 50	0 - 4 bar	2,780	98390724	2,993	98390727
CRIE 15-2	3	DN 50	0 - 10 bar	-	-	4,126	99071546
CRIE 15-3	4	DN 50	0 - 10 bar	-	-	4,985	99071547
CRIE 15-4	5.5	DN 50	0 - 10 bar	-	-	5,995	99071548
CRIE 15-5	7.5	DN 50	0 - 16 bar	-	-	7,123	99071549
CRIE 15-8	11	DN 50	0 - 25 bar	-	-	9,220	99071551
CRIE 15-10	15	DN 50	0 - 25 bar	-	-	11,334	96514522
CRIE 15-12	18.5	DN 50	0 - 25 bar	-	-	13,695	96514523
CRIE 20-1	2.2	DN 50	0 - 4 bar	-	-	3,654	98390783
CRIE 20-2	4	DN 50	0 - 6 bar	-	-	5,042	99071681
CRIE 20-3	5.5	DN 50	0 - 10 bar	-	-	6,064	99071682
CRIE 20-4	7.5	DN 50	0 - 10 bar	-	-	7,207	99071683
CRIE 20-6	11	DN 50	0 - 16 bar	-	-	9,327	99071684
CRIE 20-8	15	DN 50	0 - 25 bar	-	-	11,473	96514656
CRIE 20-10	18.5	DN 50	0 - 25 bar	-	-	13,861	96514657

CRIE 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 CRIE 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.

REMEMBER : PUMPS with CA Bases normally need 2x 2 Bolt Oval Flanges - see page 47

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 46/47 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

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 - CRIE1 to CRIE20

CRIE 304 STAINLESS STEEL VARIABLE SPEED PUMPS WITH SENSOR FITTED

Model	P2 kW	Pipe connection	Transducer Range	200-240V 1ph 50/60Hz		380-480/500V 3ph 50/60Hz	
				£	Product Code	£	Product Code
				N CA A E HQQE		N CA A E HQQE	
CRIE 1-4	0.37	32mm	0 - 6 bar	1,979	98389381	2,193	98389400
CRIE 1-6	0.55	32mm	0 - 10 bar	2,135	98389382	2,351	98389401
CRIE 1-9	0.75	32mm	0 - 10 bar	2,348	98389383	2,590	98389403
CRIE 1-13	1.1	32mm	0 - 16 bar	2,745	98389384	3,013	98389404
CRIE 1-17	1.5	32mm	0 - 16 bar	3,382	98389385	3,597	98389405
CRIE 1-25	2.2	32mm	0 - 25 bar	-	-	4,298	98389406
				-	-	N FGJ A E HQQE	
CRIE 1-27	3	DN 25/32	0 - 25 bar	-	-	5,105	99072123
				N CA A E HQQE		N CA A E HQQE	
CRIE 3-2	0.37	32mm	0 - 4 bar	1,904	98389783	2,119	98389798
CRIE 3-4	0.55	32mm	0 - 6 bar	2,039	98389784	2,255	98389799
CRIE 3-5	0.75	32mm	0 - 6 bar	2,223	98389785	2,465	98389800
CRIE 3-8	1.1	32mm	0 - 10 bar	2,508	98389786	2,776	98389801
CRIE 3-11	1.5	32mm	0 - 16 bar	3,004	98389787	3,221	98389802
CRIE 3-17	2.2	32mm	0 - 25 bar	-	-	3,943	98389804
				-	-	N FGJ A E HQQE	
CRIE 3-23	3	DN 25/32	0 - 25 bar	-	-	4,579	99072158
CRIE 3-25	4	DN 25/32	0 - 25 bar	-	-	5,436	99072159
				N CA A E HQQE		N CA A E HQQE	
CRIE 5-2	0.55	32mm	0 - 4 bar	2,013	98390079	2,229	98390089
CRIE 5-4	1.1	32mm	0 - 6 bar	2,313	98390080	2,582	98390090
CRIE 5-5	1.5	32mm	0 - 6 bar	2,768	98390082	2,983	98390091
CRIE 5-9	2.2	32mm	0 - 10 bar	-	-	3,654	98390092
				-	-	N FGJ A E HQQE	
CRIE 5-12	3	DN 25/32	0 - 16 bar	-	-	4,244	99072221
CRIE 5-16	4	DN 25/32	0 - 25 bar	-	-	5,009	99072222
CRIE 5-22	5.5	DN 25/32	0 - 25 bar	-	-	6,012	99072223
CRIE 5-24	7.5	DN 25/32	0 - 25 bar	-	-	7,078	99075984
				N CA A E HQQE		N CA A E HQQE	
CRIE 10-1	0.75	50mm	0 - 4 bar	2,301	98390290	2,542	98390694
CRIE 10-2	1.5	50mm	0 - 4 bar	2,941	98390291	3,156	98390296
CRIE 10-3	2.2	50mm	0 - 6 bar	-	-	3,793	98390297
CRIE 10-5	3	50mm	0 - 10 bar	-	-	4,315	99071470
CRIE 10-6	4	50mm	0 - 10 bar	-	-	5,196	99071471
CRIE 10-9	5.5	50mm	0 - 16 bar	-	-	6,316	99071802
				N FGJ A E HQQE		N FGJ A E HQQE	
CRIE 10-5	3	DN 40	0 - 10 bar	-	-	4,421	99071475
CRIE 10-6	4	DN 40	0 - 10 bar	-	-	5,302	99071476
CRIE 10-9	5.5	DN 40	0 - 16 bar	-	-	6,423	99071808
CRIE 10-12	7.5	DN 40	0 - 25 bar	-	-	7,824	99071809
CRIE 10-17	11	DN 40	0 - 25 bar	-	-	10,041	99071810
				3,011	98390731	3,223	98390734
CRIE 15-1	1.5	DN 50	0 - 4 bar	-	-	4,356	99071565
CRIE 15-2	3	DN 50	0 - 10 bar	-	-	5,216	99071566
CRIE 15-3	4	DN 50	0 - 10 bar	-	-	6,226	99071568
CRIE 15-4	5.5	DN 50	0 - 10 bar	-	-	7,353	99071569
CRIE 15-5	7.5	DN 50	0 - 16 bar	-	-	9,451	99071570
CRIE 15-8	11	DN 50	0 - 25 bar	-	-	11,565	96514591
CRIE 15-10	15	DN 50	0 - 25 bar	-	-	13,925	96514592
CRIE 15-12	18.5	DN 50	0 - 25 bar	-	-		
				-	-	3,884	98390786
CRIE 20-1	2.2	DN 50	0 - 4 bar	-	-	5,274	99071694
CRIE 20-2	4	DN 50	0 - 6 bar	-	-	6,294	99071695
CRIE 20-3	5.5	DN 50	0 - 10 bar	-	-	7,437	99071696
CRIE 20-4	7.5	DN 50	0 - 10 bar	-	-	9,559	99071698
CRIE 20-6	11	DN 50	0 - 16 bar	-	-	11,704	96514717
CRIE 20-8	15	DN 50	0 - 25 bar	-	-	14,093	96514718
CRIE 20-10	18.5	DN 50	0 - 25 bar	-	-		

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 47

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 46/47 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

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	Pipe connection	Transducer Range	200-240V 1ph 50/60Hz		380-480/500V 3ph 50/60Hz	
				£	Product Code	£	Product Code
				WITHOUT SENSOR		WITH SENSOR	
				A F A E HQQE		N F A E HQQE	
CRE 32-1-1	2.2	DN 65	0 - 4 bar	4,033	98390932	4,273	98390933
CRE 32-1	3	DN 65	0 - 4 bar	4,545	99071938	4,786	99071957
CRE 32-2-1	5.5	DN 65	0 - 10 bar	6,709	99071942	6,948	99071958
CRE 32-2	7.5	DN 65	0 - 10 bar	8,192	99071953	8,433	99071959
CRE 32-4-2	11	DN 65	0 - 16 bar	10,896	99071955	11,137	99071960
CRE 32-5-2	15	DN 65	0 - 16 bar	13,151	96122663	13,389	96122671
CRE 32-6	18.5	DN 65	0 - 25 bar	15,580	96122664	15,820	96122672
CRE 32-7	22	DN 65	0 - 25 bar	17,890	96122665	18,129	96122673
CRE 45-1-1	5.5	DN 80	0 - 6 bar	6,565	99072009	6,804	99072016
CRE 45-1	7.5	DN 80	0 - 6 bar	8,030	99072011	8,271	99072017
CRE 45-2-1	11	DN 80	0 - 10 bar	10,577	99072014	10,817	99072019
CRE 45-2	15	DN 80	0 - 10 bar	12,847	96123405	13,086	96123413
CRE 45-3	18.5	DN 80	0 - 16 bar	15,333	96123406	15,572	96123414
CRE 45-4-2	22	DN 80	0 - 16 bar	17,368	96123407	17,607	96123415
CRE 64-1-1	7.5	DN 100	0 - 6 bar	7,726	99072057	7,962	99072061
CRE 64-1	11	DN 100	0 - 6 bar	10,527	99072059	10,763	99072062
CRE 64-2-2	15	DN 100	0 - 10 bar	12,321	96123994	12,558	96123999
CRE 64-2-1	18.5	DN 100	0 - 10 bar	14,821	96123995	15,057	96124000
CRE 64-3-2	22	DN 100	0 - 16 bar	16,543	96123996	16,779	96124001
CRE 95-1-1	11	DN 100	0 - 6 bar	9,804	99264346	10,038	99264415
CRE 95-1	15	DN 100	0 - 6 bar	12,034	99264358	12,268	99264416
CRE 95-2-2	18.5	DN 100	0 - 10 bar	14,306	99264359	14,538	99264417
CRE 95-2-1	22	DN 100	0 - 10 bar	16,105	99264360	16,338	99264418
CRE 125-1-1	15	DN 150	0 - 6 bar	12,035	99264393	12,270	99264451
CRE 125-1	18.5	DN 150	0 - 6 bar	15,569	99264394	15,805	99264452
CRE 155-1-1	18.5	DN 150	0 - 6 bar	14,907	99264409	15,143	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 46/47 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	Pipe connection	Transducer Range	200-240V 1ph 50/60Hz		380-480/500V 3ph 50/60Hz	
				£	Product Code	£	Product Code
				A FGJ A E HQQE		A FGJ A E HQQE	
CRNE 1-4	0.37	DN 25/32	0 - 6 bar	1,997	98389459	2,212	98389501
CRNE 1-6	0.55	DN 25/32	0 - 10 bar	2,164	98389460	2,379	98389503
CRNE 1-9	0.75	DN 25/32	0 - 10 bar	2,397	98389462	2,638	98389504
CRNE 1-13	1.1	DN 25/32	0 - 16 bar	2,834	98389463	3,102	98389505
CRNE 1-17	1.5	DN 25/32	0 - 16 bar	3,509	98389464	3,724	98389506
CRNE 1-25	2.2	DN 25/32	0 - 25 bar	-	-	4,463	98389507
CRNE 1-27	3	DN 25/32	0 - 25 bar	-	-	5,258	99072128
CRNE 3-2	0.37	DN 25/32	0 - 4 bar	1,929	98389844	2,144	98389889
CRNE 3-4	0.55	DN 25/32	0 - 6 bar	2,070	98389845	2,286	98389890
CRNE 3-5	0.75	DN 25/32	0 - 6 bar	2,272	98389846	2,515	98389891
CRNE 3-8	1.1	DN 25/32	0 - 10 bar	2,584	98389847	2,853	98389892
CRNE 3-11	1.5	DN 25/32	0 - 16 bar	3,109	98389848	3,325	98389893
CRNE 3-17	2.2	DN 25/32	0 - 25 bar	-	-	4,103	98389894
CRNE 3-23	3	DN 25/32	0 - 25 bar	-	-	4,713	99072168
CRNE 3-25	4	DN 25/32	0 - 25 bar	-	-	5,616	99072169
CRNE 5-2	0.55	DN 25/32	0 - 4 bar	2,033	98390117	2,248	98390150
CRNE 5-4	1.1	DN 25/32	0 - 6 bar	2,359	98390118	2,628	98390151
CRNE 5-5	1.5	DN 25/32	0 - 6 bar	2,840	98390120	3,054	98390152
CRNE 5-9	2.2	DN 25/32	0 - 10 bar	-	-	3,765	98390153
CRNE 5-12	3	DN 25/32	0 - 16 bar	-	-	4,321	99072237
CRNE 5-16	4	DN 25/32	0 - 25 bar	-	-	5,127	99072238
CRNE 5-22	5.5	DN 25/32	0 - 25 bar	-	-	6,202	99072239
CRNE 5-24	7.5	DN 25/32	0 - 25 bar	-	-	7,327	99075989
CRNE 10-1	0.75	DN 40	0 - 4 bar	2,336	98390311	2,578	98390701
CRNE 10-2	1.5	DN 40	0 - 4 bar	3,000	98390312	3,216	98390323
CRNE 10-3	2.2	DN 40	0 - 6 bar	-	-	3,865	98390324
CRNE 10-5	3	DN 40	0 - 10 bar	-	-	4,421	99071488
CRNE 10-6	4	DN 40	0 - 10 bar	-	-	5,348	99071490
CRNE 10-9	5.5	DN 40	0 - 16 bar	-	-	6,541	99071826
CRNE 10-12	7.5	DN 40	0 - 25 bar	-	-	8,038	99071827
CRNE 10-17	11	DN 40	0 - 25 bar	-	-	10,392	99071829
CRNE 15-1	1.5	DN 50	0 - 4 bar	2,995	98390739	3,207	98390746
CRNE 15-2	3	DN 50	0 - 10 bar	-	-	4,363	99071604
CRNE 15-3	4	DN 50	0 - 10 bar	-	-	5,274	99071605
CRNE 15-4	5.5	DN 50	0 - 10 bar	-	-	6,349	99071606
CRNE 15-5	7.5	DN 50	0 - 16 bar	-	-	7,545	99071607
CRNE 15-8	11	DN 50	0 - 25 bar	-	-	9,774	99071608
CRNE 15-10	15	DN 50	0 - 25 bar	-	-	12,040	96514538
CRNE 15-12	18.5	DN 50	0 - 25 bar	-	-	14,549	96514539
CRNE 20-1	2.2	DN 50	0 - 4 bar	-	-	3,854	98390792
CRNE 20-2	4	DN 50	0 - 6 bar	-	-	5,326	99071718
CRNE 20-3	5.5	DN 50	0 - 10 bar	-	-	6,413	99071719
CRNE 20-4	7.5	DN 50	0 - 10 bar	-	-	7,621	99071720
CRNE 20-6	11	DN 50	0 - 16 bar	-	-	9,872	99071722
CRNE 20-8	15	DN 50	0 - 25 bar	-	-	12,170	96514671
CRNE 20-10	18.5	DN 50	0 - 25 bar	-	-	14,706	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]

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	Pipe connection	Transducer Range	200-240V 1ph 50/60Hz		380-480/500V 3ph 50/60Hz	
				£	Product Code	£	Product Code
				N FGJ A E HQQE		N FGJ A E HQQE	
CRNE 1-4	0.37	DN 25/32	0 - 6 bar	2,236	98389538	2,450	98389584
CRNE 1-6	0.55	DN 25/32	0 - 10 bar	2,402	98389539	2,616	98389586
CRNE 1-9	0.75	DN 25/32	0 - 10 bar	2,635	98389542	2,876	98389587
CRNE 1-13	1.1	DN 25/32	0 - 16 bar	3,072	98389545	3,340	98389588
CRNE 1-17	1.5	DN 25/32	0 - 16 bar	3,747	98389546	3,962	98389589
CRNE 1-25	2.2	DN 25/32	0 - 25 bar	-	-	4,701	98389591
CRNE 1-27	3	DN 25/32	0 - 25 bar	-	-	5,495	99072135
CRNE 3-2	0.37	DN 25/32	0 - 4 bar	2,168	98389924	2,385	98389972
CRNE 3-4	0.55	DN 25/32	0 - 6 bar	2,311	98389925	2,526	98389973
CRNE 3-5	0.75	DN 25/32	0 - 6 bar	2,513	98389926	2,754	98389974
CRNE 3-8	1.1	DN 25/32	0 - 10 bar	2,824	98389927	3,094	98389975
CRNE 3-11	1.5	DN 25/32	0 - 16 bar	3,348	98389930	3,565	98389976
CRNE 3-17	2.2	DN 25/32	0 - 25 bar	-	-	4,342	98389977
CRNE 3-23	3	DN 25/32	0 - 25 bar	-	-	4,952	99072180
CRNE 3-25	4	DN 25/32	0 - 25 bar	-	-	5,856	99072181
CRNE 5-2	0.55	DN 25/32	0 - 4 bar	2,271	98390170	2,487	98390192
CRNE 5-4	1.1	DN 25/32	0 - 6 bar	2,598	98390171	2,867	98390193
CRNE 5-5	1.5	DN 25/32	0 - 6 bar	3,079	98390172	3,293	98390194
CRNE 5-9	2.2	DN 25/32	0 - 10 bar	-	-	4,005	98390195
CRNE 5-12	3	DN 25/32	0 - 16 bar	-	-	4,560	99072265
CRNE 5-16	4	DN 25/32	0 - 25 bar	-	-	5,366	99072266
CRNE 5-22	5.5	DN 25/32	0 - 25 bar	-	-	6,441	99072267
CRNE 5-24	7.5	DN 25/32	0 - 25 bar	-	-	7,566	99075995
CRNE 10-1	0.75	DN 40	0 - 4 bar	2,568	98390335	2,810	98390707
CRNE 10-2	1.5	DN 40	0 - 4 bar	3,234	98390336	3,449	98390347
CRNE 10-3	2.2	DN 40	0 - 6 bar	-	-	4,097	98390348
CRNE 10-5	3	DN 40	0 - 10 bar	-	-	4,653	99071504
CRNE 10-6	4	DN 40	0 - 10 bar	-	-	5,580	99071506
CRNE 10-9	5.5	DN 40	0 - 16 bar	-	-	6,775	99071850
CRNE 10-12	7.5	DN 40	0 - 25 bar	-	-	8,272	99071851
CRNE 10-17	11	DN 40	0 - 25 bar	-	-	10,626	99071852
CRNE 15-1	1.5	DN 50	0 - 4 bar	3,225	98390752	3,437	98390758
CRNE 15-2	3	DN 50	0 - 10 bar	-	-	4,595	99071636
CRNE 15-3	4	DN 50	0 - 10 bar	-	-	5,505	99071637
CRNE 15-4	5.5	DN 50	0 - 10 bar	-	-	6,580	99071638
CRNE 15-5	7.5	DN 50	0 - 16 bar	-	-	7,775	99071640
CRNE 15-8	11	DN 50	0 - 25 bar	-	-	10,005	99071641
CRNE 15-10	15	DN 50	0 - 25 bar	-	-	12,270	96514607
CRNE 15-12	18.5	DN 50	0 - 25 bar	-	-	14,780	96514608
CRNE 20-1	2.2	DN 50	0 - 4 bar	-	-	4,085	98390798
CRNE 20-2	4	DN 50	0 - 6 bar	-	-	5,556	99071765
CRNE 20-3	5.5	DN 50	0 - 10 bar	-	-	6,643	99071766
CRNE 20-4	7.5	DN 50	0 - 10 bar	-	-	7,852	99071767
CRNE 20-6	11	DN 50	0 - 16 bar	-	-	10,103	99071768
CRNE 20-8	15	DN 50	0 - 25 bar	-	-	12,401	96514731
CRNE 20-10	18.5	DN 50	0 - 25 bar	-	-	14,936	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	Pipe connection	Transducer Range	380-480/500V 3ph 50/60Hz		380-480/500V 3ph 50/60Hz	
				£	Product Code	£	Product Code
				WITHOUT SENSOR		WITH SENSOR	
				A F A E HQQE		N F A E HQQE	
CRNE 32-1-1	2.2	DN 65	0 - 4 bar	5,026	98390934	5,265	98390936
CRNE 32-1	3	DN 65	0 - 4 bar	5,461	99071972	5,700	99071999
CRNE 32-2-1	5.5	DN 65	0 - 10 bar	7,725	99071983	7,964	99072000
CRNE 32-2	7.5	DN 65	0 - 10 bar	9,195	99071984	9,434	99072001
CRNE 32-4-2	11	DN 65	0 - 16 bar	12,249	99071985	12,489	99072003
CRNE 32-5-2	15	DN 65	0 - 16 bar	15,310	96122699	15,548	96122707
CRNE 32-6	18.5	DN 65	0 - 25 bar	18,099	96122700	18,337	96122708
CRNE 32-7	22	DN 65	0 - 25 bar	20,403	96122701	20,642	96122709
CRNE 45-1-1	5.5	DN 80	0 - 6 bar	7,439	99072029	7,673	99072049
CRNE 45-1	7.5	DN 80	0 - 6 bar	9,020	99072030	9,255	99072050
CRNE 45-2-1	11	DN 80	0 - 10 bar	11,735	99072031	11,971	99072052
CRNE 45-2	15	DN 80	0 - 10 bar	14,688	96123437	14,921	96123445
CRNE 45-3	18.5	DN 80	0 - 16 bar	17,375	96123438	17,611	96123446
CRNE 45-4-2	22	DN 80	0 - 16 bar	19,837	96123439	20,073	96123447
CRNE 64-1-1	7.5	DN 80	0 - 6 bar	8,993	99072078	9,228	99072087
CRNE 64-1	11	DN 80	0 - 6 bar	11,903	99072079	12,139	99072088
CRNE 64-2-2	15	DN 80	0 - 10 bar	14,308	96124018	14,544	96124023
CRNE 64-2-1	18.5	DN 80	0 - 10 bar	16,931	96124019	17,166	96124024
CRNE 64-3-2	22	DN 80	0 - 16 bar	19,190	96124020	19,426	96124025
CRNE 95-1-1	11	DN 100	0 - 6 bar	12,034	99264375	12,269	99264434
CRNE 95-1	15	DN 100	0 - 6 bar	14,854	99264376	15,089	99264435
CRNE 95-2-2	18.5	DN 100	0 - 10 bar	17,174	99264377	17,409	99264436
CRNE 95-2-1	22	DN 100	0 - 10 bar	19,331	99264378	19,567	99264437
CRNE 125-1-1	15.0	DN 150	0 - 6 bar	14,690	99264399	14,924	99264455
CRNE 125-1	18.5	DN 150	0 - 6 bar	18,526	99264400	18,762	99264456
CRNE 155-1-1	18.5	DN 150	0 - 6 bar	18,295	99264411	18,528	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 pr

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 46/47 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
CRNE 1-23 HS	4.6	PJE 42.2mm
CRNE 1-23 HS	6	PJE 42.2mm
CRNE 1-23 HS	7.5	PJE 42.2mm
CRNE3-23 HS	4.6	PJE 42.2mm
CRNE3-23 HS	6	PJE 42.2mm
CRNE3-23 HS	7.5	PJE 42.2mm

£	Product Code
Q P T E HQQE	
POA	99050536
POA	99050537
POA	99050538
POA	99050564
POA	99050565
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
CRN 3-31 SF	3	PJE 42.2mm
CRN 5-34 SF	5.5	PJE 42.2mm
CRN 10-21 SF	7.5	PJE 60.1mm
CRN 15-16 SF	15	PJE 60.1mm
CRN 20-16 SF	18.5	PJE 60.1mm
CRN 32-13 SF	30	PJE 88.9mm
CRN 45-12 SF	45	PJE 114mm
CRN 64-7 SF	45	PJE 114mm

£	Product Code
S P A E HQQE	
4,345	96892938
2,692	96521769
7,507	96512200
10,960	96512213
11,630	96512261
£	Product Code
SF P A E HQQE	
POA	97515507
POA	97515508
POA	97566802

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	89	419912
60.1mm / DN50	EPDM	316 SS	for welding	70bar	2	89	339910
88.9mm / DN80	EPDM	316 SS	for welding	70bar	2	295	98144746
114mm / DN100	EPDM	316 SS	for welding	70bar	2	487	98144752
PJE couplings without pipe stub					No Req'd	£	Product Code
42.2mm					2	49	00ID1781
60.1mm					2	52	00ID2643
88.9mm					2	98	00ID5530
114mm					2	137	96483370
Connecting pipe	For pump type				No Req'd	£	Product Code
42.2mm / DN32	CRN 3/5				1	343	98895730
60.1mm / DN50	CRN 10/15/20				1	141	420138
88.9mm / DN80	CRN 32				1	431	98144757
114mm / DN100	CRN 45/64/90				1	645	98144759

CATEGORY 2 - CRT TITANIUM VERTICAL MULTISTAGE PUMPS

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 kW	230V 1ph 50Hz	
		£	Product Code
		A P A AUUE	
CRT2-2	0.37	2,842	96100265
CRT2-3	0.37	2,980	96100266
CRT2-4	0.55	3,271	96100267
CRT2-5	0.55	3,577	96100268
CRT2-6	0.75	3,988	96100269
CRT2-7	0.75	4,346	96100270
CRT2-9	1.1	4,824	96100271
CRT2-11	1.1	5,359	96100272
CRT2-13	1.5	6,043	96100273
CRT2-15	1.5	6,614	96100274
CRT2-18	2.2	7,336	96100275
CRT2-22	2.2	8,232	96100276

CRT4-1	0.37	3,047	96100764
CRT4-2	0.37	3,191	96100765
CRT4-3	0.55	3,500	96100766
CRT4-4	0.75	3,989	96100767
CRT4-5	1.1	4,656	96100768
CRT4-6	1.1	5,052	96100769
CRT4-7	1.5	5,808	96100770
CRT4-8	1.5	6,196	96100771
CRT4-10	2.2	7,077	96100772
CRT4-12	2.2	7,502	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.

CRT 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 kW	400V 3ph 50Hz	
		£	Product Code
		A P A AUUE	
CRT2-2	0.37	2,777	96100301
CRT2-3	0.37	2,964	96100302
CRT2-4	0.55	3,177	96100303
CRT2-5	0.55	3,665	96100304
CRT2-6	0.75	3,821	96100305
CRT2-7	0.75	4,300	96100306
CRT2-9	1.1	4,553	96100307
CRT2-11	1.1	5,120	96100308
CRT2-13	1.5	5,679	96100309
CRT2-15	1.5	6,251	96100310
CRT2-18	2.2	6,940	96100311
CRT2-22	2.2	7,838	96100312
CRT2-26	3	8,711	96100313

CRT4-1	0.37	2,730	96100794
CRT4-2	0.37	3,126	96100795
CRT4-3	0.55	3,405	96100796
CRT4-4	0.75	3,821	96100797
CRT4-5	1.1	4,381	96100798
CRT4-6	1.1	4,778	96100799
CRT4-7	1.5	5,440	96100800
CRT4-8	1.5	5,827	96100801
CRT4-10	2.2	7,070	96100802
CRT4-12	2.2	7,100	96100803
CRT4-14	3	8,217	96100804
CRT4-16	3	8,641	96100805
CRT4-19	4	9,928	96100806
CRT4-22	4	10,866	96100807

CRT8-1	0.37	5,133	96108239
CRT8-2	0.75	5,366	96108240
CRT8-3	1.1	5,790	96108241
CRT8-4	1.5	6,557	96108242
CRT8-5	2.2	7,150	96108243
CRT8-6	2.2	7,566	96108244
CRT8-8	3	8,803	96108245
CRT8-10	4	10,146	96117229
CRT8-12	4	11,056	96117230
CRT8-14	5.5	13,134	96117231
CRT8-16	5.5	14,147	96117232
CRT8-18	7.5	16,644	96117233
CRT8-20	7.5	17,651	96117234

CRT16-2	2.2	6,223	96108344
CRT16-3	3	7,579	96108345
CRT16-4	4	8,817	96117246
CRT16-5	5.5	10,737	96117247
CRT16-6	5.5	11,521	96117248
CRT16-7	7.5	12,808	96117249
CRT16-8	7.5	13,707	96117250
CRT16-10	11	16,972	96117251
CRT16-12	11	17,988	96117252
CRT16-14	15	22,316	96117253
CRT16-17	18.5	23,563	96117254

PJE COUPLINGS FOR CRT PUMPS

CRT ACCESSORIES

	No Req'd	£	Product Code
PJE threaded couplings with EPDM seals	2	213	415520
	2	267	425935

	No Req'd	£	Product Code
Viton seals are available as an optional extra.	2	171	00ID6742
	2	327	98977142



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

COUNTER FLANGES FOR CR/CRJ/CRN PUMPS

Pump type and size	Pump Connection	Type	Pipe connection	PN rating	Nº Req'd	Material	£	Product Code
CRI 1s/1/3	FGJ	Welding	25mm	25 bar	2	Steel St37-2	59	409902
CRI 5	FGJ	Welding	32mm	25 bar	2	Steel St37-2	81	419902
CRI 10	FGJ	Welding	40mm	25 bar	2	Steel St37-2	106	429901
CRI 15/20	FGJ	Threaded	2" BSPF	16 bar	2	Steel St37-2	116	339903
	FGJ	Welding	50mm	25 bar	2	Steel St37-2	141	339901
CR 32	F	Threaded	2" ½ BSPF	16 bar	2	Steel St37-2	81	349902
	F	Threaded	3" BSPF	16 bar	2	Steel St37-2	76	349901
	F	Welding	65 mm	40 bar	2	Steel St37-2	169	349905
CR 45	F	Threaded	3" BSPF	16 bar	2	Steel St37-2	98	350540
	F	Welding	80mm	40 bar	2	Steel St37-2	169	350542
CR 64/95	F	Threaded	4" BSPF	16 bar	2	Steel St37-2	116	369901
	F	Welding	100 mm	25 bar	2	Steel St37-2	133	369905
CR 125/155	F	Welding	150 mm	40 bar	2	Steel St37-2	396	96750476
CRI/CRN 1s/1/3	FGJ	Threaded	1" BSPF	25 bar	2	316 stainless steel	348	91200656
CRI/CRN 5	FGJ	Threaded	1" ½ BSPF	25 bar	2	316 stainless steel	341	91200657
CRI/CRN 10	FGJ	Threaded	1" ½ BSPF	16 bar	2	316 stainless steel	372	91201023
	FGJ	Welding	40 mm	40 bar	2	316 stainless steel	236	91201025
CRI/CRN 15/20	FGJ	Threaded	2" BSPF	16 bar	2	316 stainless steel	245	91201026
	FGJ	Welding	50 mm	40 bar	2	316 stainless steel	255	91201028
CRN 32	F	Threaded	2" ½ BSPF	16 bar	2	316 stainless steel	355	349910
	F	Threaded	3" BSPF	16 bar	2	316 stainless steel	355	349911
	F	Welding	65 mm	40 bar	2	316 stainless steel	355	349908
CRN 45	F	Threaded	3" BSPF	16 bar	2	316 stainless steel	534	350543
	F	Welding	80 mm	40 bar	2	316 stainless steel	534	350545
CRN 64/95	F	Threaded	4" BSPF	16 bar	2	316 stainless steel	POA	369904
	F	Welding	100 mm	40 bar	2	316 stainless steel	577	369906
CRN 125/155	F	Welding	150 mm	16 bar	2	316 stainless steel	480	98052936
	F	Welding	150 mm	40 bar	2	316 stainless steel	1,363	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 Req'd	Rubber	£	Product Code
CRN 1s/1/3/5	PJE	Threaded	1" ½ BSPF	69 bar	2	EPDM	89	419911
	PJE	Threaded	1" ½ BSPF	69 bar	2	FKM	222	419905
	PJE	Welding	32mm	69 bar	2	EPDM	89	419912
	PJE	Welding	32mm	69 bar	2	FKM	222	419904
CRN 10/15/20	PJE	Threaded	2" BSPF	69 bar	2	EPDM	89	339911
	PJE	Threaded	2" BSPF	69 bar	2	FKM	222	339918
	PJE	Welding	50 mm	69 bar	2	EPDM	89	339910
	PJE	Welding	50 mm	69 bar	2	FKM	222	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	63	96449746
	CA	2 bolt oval	1" ½ BSPF	16 bar	2	Klingersil	63	96449747
	CA	DIN Flange	DN 25/32	16 bar	2	EPDM	267	96449745
	CA	DIN Flange	DN 25/32	16 bar	2	FKM	284	96449900
CRI 10/15/20	CA	2 bolt oval	1" ½ BSPF	16 bar	2	Klingersil	84	96498728
	CA	2 bolt oval	2" BSPF	16 bar	2	Klingersil	89	96498835
	CA	DIN Flange	DN 40	16 bar	2	EPDM	186	96500263
	CA	DIN Flange	DN 40	16 bar	2	FKM	261	96500264
	CA	DIN Flange	DN 50	16 bar	2	EPDM	203	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 Reqd	£	Product Code
Bolt kit for use replacing the CR2 with CRI 3 CA base	1	71	96449748
Bolt kit for use replacing the CR4 with CRI 5 CA base	1	71	96449749
Bolt kit for use replacing the CR8 with CRI 10 CA base	2	63	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 FOR LEGACY PRODUCTS

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	92	96547329
CR/CRN 30-110/9 to CR/CRN 30-160 replaced by a CR/CRN32	2	146	96587892
CR/CRN 60-20 to CR/CRN 60-80 replaced by a CR/CRN64	2	107	96587893



CR120 / CR150 ACCESSORIES	No Reqd	£	Product Code
DN125 PN40 weld counter flanges	2	274	96750475
DN125 to DN150 adapter kit	2	594	96638169

CRN120 / CRN150 ACCESSORIES	No Reqd	£	Product Code
DN125 PN40 weld counter flanges	2	915	96750477
DN125 to DN150 adapter kit	2	1,830	96638180

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

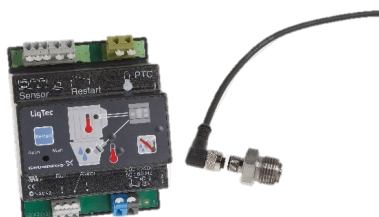
LIQTEC - DRY RUNNING PROTECTION

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)	1,394	96556429
LiqTec with sensor and 5m of interconnection cable (80-130V)	1,688	96556430
Extra 15m sensor cable kit	222	96443676

For new permanent magnet MGE motors, models H, I and J	£	Product Code
LiqTec sensor unit with 5m cable	268	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	702	97514162
CM 1-3-I	0.30 / 71	770	97514439
CM 1-4-I	0.50 / 71	831	97514999
CM 1-5-I	0.50 / 71	890	97515000
CM 1-6-I	0.50 / 71	901	97515021
CM 1-7-I	0.50 / 71	1,018	97515023
CM 1-8-I	0.67 / 80	1,051	97515024
CM 1-9-I	0.67 / 80	1,068	97644331
CM 1-10-I	0.67 / 80	1,096	97644334
CM 1-11-I	0.90 / 80	1,189	97644335
CM 1-12-I	0.90 / 80	1,272	97644336
CM 1-13-I	0.90 / 80	1,329	97577832
CM 1-14-I	1.30 / 90	1,815	97644337
CM 3-2-I	0.30 / 71	731	96961011
CM 3-3-I	0.50 / 71	788	96961025
CM 3-4-I	0.50 / 71	841	96961045
CM 3-5-I	0.50 / 71	903	96961051
CM 3-6-I	0.67 / 80	1,012	97515032
CM 3-7-I	0.90 / 80	1,093	97515033
CM 3-8-I	0.90 / 80	1,164	97515034
CM 3-9-I	1.30 / 90	1,503	97569313
CM 3-10-I	1.30 / 90	1,589	97644339
CM 3-11-I	1.30 / 90	1,758	97620738
CM 3-12-I	1.30 / 90	1,805	97644340
CM 3-13-I	1.70 / 90	1,862	97621172
CM 3-14-I	1.70 / 90	1,892	97644352
CM 5-2-I	0.50 / 71	724	97515042
CM 5-3-I	0.50 / 71	840	97515044
CM 5-4-I	0.67 / 80	1,011	96961065
CM 5-5-I	0.90 / 80	1,112	96961097
CM 5-6-I	1.30 / 90	1,466	97507749
CM 5-7-I	1.30 / 90	1,621	97515047
CM 5-8-I	1.70 / 90	1,685	97515048
CM 5-9-I	1.70 / 90	1,862	97644353
CM 5-10-I	1.70 / 90	1,915	97621173
CM 5-11-I	1.70 / 90	2,022	97620739
CM 10-1-I	0.67 / 80	1,096	97515062
CM 10-2-I	1.30 / 90	1,457	96946004
CM 10-3-I	1.70 / 90	1,789	96946005
CM 15-1-I	1.30 / 90	2,013	97515064
CM 15-2-I	1.70 / 90	2,290	97515063
CM 25-1-I	1.70 / 90	2,210	97515065

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 304 stainless 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 53.

400V 3ph 50Hz			
Model	P2 (kW) / Frame	£	Product Code
		CMx-x A R I E AQQE FAAN	
CM 1-2-I	0.46 / 71	686	97514413
CM 1-3-I	0.46 / 71	754	97515109
CM 1-4-I	0.46 / 71	807	97515121
CM 1-5-I	0.46 / 71	868	96807014
CM 1-6-I	0.46 / 71	877	97515122
CM 1-7-I	0.65 / 71	994	97515123
CM 1-8-I	0.65 / 71	1,018	96976902
CM 1-9-I	0.65 / 71	1,034	97644332
CM 1-10-I	1.1 / 80	1,061	98662772
CM 1-11-I	1.1 / 80	1,142	98694631
CM 1-12-I	1.1 / 80	1,226	98694632
CM 1-13-I	1.1 / 80	1,283	98694633
CM 1-14-I	1.1 / 80	1,497	98694634
CM 3-2-I	0.46 / 71	715	96961023
CM 3-3-I	0.46 / 71	765	96961026
CM 3-4-I	0.46 / 71	819	96961047
CM 3-5-I	0.65 / 71	878	96961052
CM 3-6-I	0.65 / 71	979	97515126
CM 3-7-I	1.1 / 80	1,047	98662725
CM 3-8-I	1.1 / 80	1,117	98725225
CM 3-9-I	1.1 / 80	1,184	99080201
CM 3-10-I	1.5 / 90	1,271	99059802
CM 3-11-I	1.5 / 90	1,440	98694635
CM 3-12-I	1.5 / 90	1,485	99080202
CM 3-13-I	2.2 / 90	1,513	98694637
CM 3-14-I	2.2 / 90	1,544	98694638
CM 5-2-I	0.46 / 71	700	96961054
CM 5-3-I	0.65 / 71	817	96961057
CM 5-4-I	1.1 / 80	978	98798510
CM 5-5-I	1.1 / 80	1,065	98725313
CM 5-6-I	1.5 / 90	1,149	98664188
CM 5-7-I	1.5 / 90	1,303	98725228
CM 5-8-I	2.2 / 90	1,336	98717944
CM 5-9-I	2.2 / 90	1,514	98896343
CM 5-10-I	2.2 / 90	1,568	99059803
CM 5-11-I	2.2 / 90	1,675	99080204
CM 5-12-I	3 / 100	2,000	98694640
CM 5-13-I	3 / 100	2,067	98694641
CM 10-1-I	0.65 / 71	1,061	97515133
CM 10-2-I	1.5 / 90	1,138	98719394
CM 10-3-I	2.2 / 90	1,440	98693606
CM 10-4-I	3 / 100	1,965	98777053
CM 10-5-I	3 / 100	2,126	98979299
CM 10-6-I	4 / 112	2,166	99057080
CM 10-7-I	5.5 / 132	2,340	98694642
CM 10-8-I	5.5 / 132	2,790	98694643
CM 15-1-I	1.5 / 80	1,694	99087495
CM 15-2-I	2.2 / 90	1,941	99080205
CM 15-3-I	4 / 112	2,233	98669726
CM 15-4-I	5.5 / 132	2,505	98958451
CM 25-1-I	2.2 / 90	1,862	98979367
CM 25-2-I	4 / 112	2,596	98693604
CM 25-3-I	5.5 / 132	3,208	98935349
CM 25-4-I	7.5 / 132	3,721	99205260



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

COMPLETE WITH DIRECT COUPLED 2900 RPM ELECTRIC MOTOR

Model	P2 (kW) / Frame	230V 1ph 50Hz	
		£	Product Code
CMx-x A R G E AQQE CAAN			
CM 1-2-G	0.30 / 71	886	97516635
CM 1-3-G	0.30 / 71	983	97516636
CM 1-4-G	0.50 / 71	1,047	97516638
CM 1-5-G	0.50 / 71	1,110	97516640
CM 1-6-G	0.50 / 71	1,137	97516642
CM 1-7-G	0.50 / 71	1,235	97516644
CM 1-8-G	0.67 / 80	1,325	97516646
CM 1-9-G	0.67 / 80	1,347	97515025
CM 1-10-G	0.67 / 80	1,386	97515026
CM 1-11-G	0.90 / 80	1,499	96935421
CM 1-12-G	0.90 / 80	1,606	96935423
CM 1-13-G	0.90 / 80	1,679	96935425
CM 1-14-G	1.30 / 90	2,224	96935427

CM 3-2-G	0.30 / 71	921	96806880
CM 3-3-G	0.50 / 71	992	96806865
CM 3-4-G	0.50 / 71	1,058	96806889
CM 3-5-G	0.50 / 71	1,142	96806882
CM 3-6-G	0.67 / 80	1,245	97516648
CM 3-7-G	0.90 / 80	1,312	97516650
CM 3-8-G	0.90 / 80	1,436	97516652
CM 3-9-G	1.30 / 90	1,815	97515035
CM 3-10-G	1.30 / 90	1,929	97515036
CM 3-11-G	1.30 / 90	2,136	96935447
CM 3-12-G	1.30 / 90	2,202	96935449
CM 3-13-G	1.70 / 90	2,266	96935451
CM 3-14-G	1.70 / 90	2,304	96935453

CM 5-2-G	0.50 / 71	941	97516654
CM 5-3-G	0.50 / 71	1,109	97516655
CM 5-4-G	0.67 / 80	1,191	96806893
CM 5-5-G	0.90 / 80	1,386	96806881
CM 5-6-G	1.30 / 90	1,775	97516656
CM 5-7-G	1.30 / 90	1,969	97516657
CM 5-8-G	1.70 / 90	2,045	97516658
CM 5-9-G	1.70 / 90	2,273	97515050
CM 5-10-G	1.70 / 90	2,340	97515061
CM 5-11-G	1.70 / 90	2,477	96935475

CM 10-1-G	0.67 / 80	1,312	97516660
CM 10-2-G	1.30 / 90	1,792	96943217
CM 10-3-G	1.90 / 90	2,197	96943250

CM 15-1-G	1.30 / 90	2,385	97516661
CM 15-2-G	1.70 / 90	2,715	97516662

CM 25-1-G	1.70 / 90	2,562	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 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 G pumps are 316 stainless 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 53.

Model	P2 (kW) / Frame	400V 3ph 50Hz	
		£	Product Code
CMx-x A R G E AQQE FAAN			
CM 1-2-G	0.46 / 71	869	97509582
CM 1-3-G	0.46 / 71	966	97516637
CM 1-4-G	0.46 / 71	1,024	97516639
CM 1-5-G	0.46 / 71	1,086	97516641
CM 1-6-G	0.46 / 71	1,114	97516643
CM 1-7-G	0.65 / 71	1,212	97516645
CM 1-8-G	0.65 / 71	1,292	97516647
CM 1-9-G	0.65 / 71	1,314	97515124
CM 1-10-G	1.1 / 80	1,352	98979314
CM 1-11-G	1.1 / 80	1,452	98979315
CM 1-12-G	1.1 / 80	1,558	98979317
CM 1-13-G	1.1 / 80	1,634	98680017
CM 1-14-G	1.1 / 80	1,905	98979319

CM 3-2-G	0.46 / 71	904	96806870
CM 3-3-G	0.46 / 71	968	96806871
CM 3-4-G	0.46 / 71	1,034	96806884
CM 3-5-G	0.65 / 71	1,118	96806868
CM 3-6-G	0.65 / 71	1,213	97516649
CM 3-7-G	1.1 / 80	1,267	98979427
CM 3-8-G	1.1 / 80	1,390	98979442
CM 3-9-G	1.1 / 80	1,497	99131400
CM 3-10-G	1.5 / 90	1,610	98979406
CM 3-11-G	1.5 / 90	1,818	98979407
CM 3-12-G	1.5 / 90	1,886	99093825
CM 3-13-G	2.2 / 90	1,919	98979411
CM 3-14-G	2.2 / 90	1,955	98979419

CM 5-2-G	0.46 / 71	918	96806874
CM 5-3-G	0.65 / 71	1,084	96806873
CM 5-4-G	1.1 / 80	1,159	98976437
CM 5-5-G	1.1 / 80	1,340	98960734
CM 5-6-G	1.5 / 90	1,457	98945987
CM 5-7-G	1.5 / 90	1,651	98668861
CM 5-8-G	2.2 / 90	1,697	98979485
CM 5-9-G	2.2 / 90	1,924	98979488
CM 5-10-G	2.2 / 90	1,992	98979445
CM 5-11-G	2.2 / 90	2,130	99131402
CM 5-12-G	3 / 100	2,542	98979448
CM 5-13-G	3 / 100	2,629	98979449

CM 10-1-G	0.65 / 71	1,279	96943183
CM 10-2-G	1.5 / 90	1,474	98665164
CM 10-3-G	2.2 / 90	1,848	98664185
CM 10-4-G	3 / 100	2,432	98946033
CM 10-5-G	3 / 100	2,562	98917310
CM 10-6-G	4 / 112	2,750	98979300
CM 10-7-G	5.5 / 132	2,974	98979312
CM 10-8-G	5.5 / 132	3,542	98761008

CM 15-1-G	1.5 / 80	2,067	99131455
CM 15-2-G	2.2 / 90	2,368	99131456
CM 15-3-G	4 / 112	2,733	98979347
CM 15-4-G	5.5 / 132	3,124	98979361

CM 25-1-G	2.2 / 90	2,214	98687477
CM 25-2-G	4 / 112	3,091	98880198
CM 25-3-G	5.5 / 132	3,828	98838915
CM 25-4-G	7.5 / 132	4,433	99205261



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

COMPLETE WITH VARIABLE SPEED 3500 RPM ELECTRIC MOTOR

200-240V 1ph 50/60Hz				
Model	Motor		£	Product Code
	Frame size	Transducer	CMx-x A R I E AQQE UADN	
CME 1-2-I	71	0 - 4 bar	1,459	98394750
CME 1-3-I	71	0 - 6 bar	1,500	98394760
CME 1-4-I	71	0 - 6 bar	1,556	98394770
CME 1-5-I	80	0 - 10 bar	1,637	98394937
CME 1-6-I	80	0 - 10 bar	1,712	98394957
CME 1-7-I	80	0 - 10 bar	1,769	98394963
CME 1-8-I	80	0 - 16 bar	1,853	98394967
CME 3-2-I	71	0 - 4 bar	1,459	98394780
CME 3-3-I	80	0 - 6 bar	1,575	98394972
CME 3-4-I	80	0 - 10 bar	1,632	98394981
CME 3-5-I	80	0 - 10 bar	1,727	98394993
CME 3-6-I	90	0 - 10 bar	2,017	98395306
CME 3-7-I	90	0 - 10 bar	2,140	98395316
CME 5-2-I	80	0 - 4 bar	1,554	98395001
CME 5-3-I	80	0 - 6 bar	1,626	98395013
CME 5-4-I	90	0 - 6 bar	2,094	98395326
CME 10-1-I	80	0 - 4 bar	1,880	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"1/4 BSPF Discharge 1" BSPF

CM 10 - Both 1"1/2 BSPF

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 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.

ADAPTOR BASEPLATES

For assisting with the replacement of CH, CHN and CHI units with motor frame size 71/80 only - see page 53.

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.

380-500V 3ph 50/60Hz				
Model	Motor		£	Product Code
	Frame size	Transducer	CMx-x A R I E AQQE SADN	
CME 1-2-I	71	0 - 4 bar	1,703	98394849
CME 1-3-I	71	0 - 6 bar	1,744	98394859
CME 1-4-I	71	0 - 6 bar	1,800	98394868
CME 1-5-I	80	0 - 10 bar	1,940	98395119
CME 1-6-I	80	0 - 10 bar	2,017	98395127
CME 1-7-I	80	0 - 10 bar	2,073	98395143
CME 1-8-I	80	0 - 16 bar	2,157	98395148
CME 1-9-I	90	0 - 16 bar	2,394	98395354
CME 3-2-I	71	0 - 6 bar	1,703	98394877
CME 3-3-I	80	0 - 6 bar	1,879	98395157
CME 3-4-I	80	0 - 10 bar	1,935	98395166
CME 3-5-I	80	0 - 10 bar	2,029	98395177
CME 3-6-I	90	0 - 10 bar	2,263	98395359
CME 3-7-I	90	0 - 16 bar	2,386	98395366
CME 3-8-I	90	0 - 16 bar	2,800	98396708
CME 3-9-I	90	0 - 16 bar	2,844	98396713
CME 5-2-I	80	0 - 4 bar	1,857	98395195
CME 5-3-I	80	0 - 6 bar	1,930	98395207
CME 5-4-I	90	0 - 10 bar	2,340	98395373
CME 5-5-I	90	0 - 10 bar	2,777	98396719
CME 5-6-I	90	0 - 10 bar	2,853	98396729
CME 5-7-I	100	0 - 16 bar	3,186	99077754
CME 5-8-I	100	0 - 16 bar	3,452	99073792
CME 10-1-I	80	0 - 4 bar	2,183	98395109
CME 10-2-I	90	0 - 6 bar	2,808	98396267
CME 10-3-I	112	0 - 10 bar	3,867	99077759
CME 10-4-I	132	0 - 16 bar	4,398	99077760
CME 10-5-I	132	0 - 16 bar	4,533	99073816
CME 15-1-I	90	0 - 4 bar	3,158	98396593
CME 15-2-I	112	0 - 6 bar	4,205	99077762
CME 15-3-I	132	0 - 10 bar	5,319	99077764
CME 25-1-I	100	0 - 4 bar	3,976	99077766
CME 25-2-I	132	0 - 6 bar	5,773	99077768



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

COMPLETE WITH VARIABLE SPEED 3500 RPM ELECTRIC MOTOR

200-240V 1ph 50/60Hz					
Motor		£		Product Code	
Model	Frame size	Transducer	CMx-x A R G E AQQE UADN		
CME 1-2-G	71	0 - 4 bar	1,637	98394748	
CME 1-3-G	71	0 - 6 bar	1,723	98394758	
CME 1-4-G	71	0 - 6 bar	1,798	98394768	
CME 1-5-G	80	0 - 10 bar	1,883	98394935	
CME 1-6-G	80	0 - 10 bar	1,920	98394954	
CME 1-7-G	80	0 - 10 bar	1,990	98394960	
CME 1-8-G	80	0 - 16 bar	2,112	98394965	
CME 1-9-G	90	0 - 16 bar	2,417	98395299	
CME 3-2-G	71	0 - 4 bar	1,668	98394777	
CME 3-3-G	80	0 - 6 bar	1,784	98394970	
CME 3-4-G	80	0 - 10 bar	1,841	98394979	
CME 3-5-G	80	0 - 10 bar	1,949	98394989	
CME 3-6-G	90	0 - 10 bar	2,249	98395303	
CME 3-7-G	90	0 - 10 bar	2,457	98395313	
CME 5-2-G	80	0 - 4 bar	1,784	98395003	
CME 5-3-G	80	0 - 6 bar	1,878	98395009	
CME 5-4-G	90	0 - 6 bar	2,346	98395328	
CME 10-1-G	80	0 - 4 bar	2,147	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 53.

380-500V 3ph 50/60Hz					
Motor		£		Product Code	
Model	Frame size	Transducer	CMx-x A R G E AQQE SADN		
CME 1-2-G	71	0 - 4 bar	1,847	98394846	
CME 1-3-G	71	0 - 6 bar	1,931	98394855	
CME 1-4-G	71	0 - 6 bar	2,005	98394864	
CME 1-5-G	80	0 - 10 bar	2,148	98395116	
CME 1-6-G	80	0 - 10 bar	2,184	98395124	
CME 1-7-G	80	0 - 10 bar	2,254	98395130	
CME 1-8-G	80	0 - 16 bar	2,373	98395145	
CME 1-9-G	90	0 - 16 bar	2,614	98395352	
CME 3-2-G	71	0 - 6 bar	1,878	98394873	
CME 3-3-G	80	0 - 6 bar	2,051	98395153	
CME 3-4-G	80	0 - 10 bar	2,107	98395162	
CME 3-5-G	80	0 - 10 bar	2,213	98395172	
CME 3-6-G	90	0 - 10 bar	2,450	98395356	
CME 3-7-G	90	0 - 16 bar	2,653	98395362	
CME 3-8-G	90	0 - 16 bar	3,094	98396705	
CME 3-9-G	90	0 - 16 bar	3,150	98396709	
CME 5-2-G	80	0 - 4 bar	2,051	98395197	
CME 5-3-G	80	0 - 6 bar	2,142	98395201	
CME 5-4-G	90	0 - 10 bar	2,544	98395375	
CME 5-5-G	90	0 - 10 bar	3,027	98396721	
CME 5-6-G	90	0 - 10 bar	3,158	98396725	
CME 5-7-G	100	0 - 16 bar	3,520	99176057	
CME 5-8-G	100	0 - 16 bar	3,858	99176058	
CME 10-1-G	80	0 - 4 bar	2,408	98395111	
CME 10-2-G	90	0 - 6 bar	3,080	98396306	
CME 10-3-G	112	0 - 10 bar	4,220	99176091	
CME 10-4-G	132	0 - 16 bar	4,843	99176092	
CME 10-5-G	132	0 - 16 bar	5,079	99176105	
CME 15-1-G	90	0 - 4 bar	3,460	98396678	
CME 15-2-G	112	0 - 6 bar	4,427	99176124	
CME 15-3-G	132	0 - 10 bar	5,646	99176125	
CME 25-1-G	100	0 - 4 bar	4,489	99176126	
CME 25-2-G	132	0 - 6 bar	6,140	99176127	



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

COMPLETE STAND-ALONE PUMP

			220-240V 1ph 50Hz		220-240V 1ph 50Hz	
Model	Motor/Frame	P2 kW	£	Product Code	£	Product Code
			max suction lift: 4m		max suction lift: 8m	
			CM x-x S R I E AQQE CAAN		CM x-x O R I E AQQE CAAN	
CM 1-3	MG71A	0.30	831	98482156	not available	
CM 1-4	MG71B	0.50	890	98482157	not available	
CM 1-5	MG71B	0.50	958	98482158	not available	
CM 1-6	MG71B	0.50	968	98482159	not available	
CM 3-3	MG71B	0.50	849	98482147	849	98482173
CM 3-4	MG71B	0.50	903	98482148	903	98482174
CM 3-5	MG71B	0.50	970	98482149	970	98482175
CM 3-6	MG80A	0.67	1,080	98482150	1,080	98482176
CM 5-3	MG71B	0.50	901	98482179	901	98482186
CM 5-4	MG80A	0.67	1,070	98482180	1,070	98482187
CM 5-5	MG80B	0.90	1,179	98482181	1,179	98482188
CM 5-6	MG90SA	1.30	1,533	98482182	1,533	98482189
CM 5-7	MG90SA	1.30	1,688	98482183	1,688	98482190

all pumps AQQE seal

CM ACCESSORIES

CM/CMB-SP

		£	Product Code
Spring loaded foot valves in Cast iron	1" BSPF	112	956110
	1" ¼ BSPF	170	956112
Cover for CM motors, frame sizes 71 and 80		104	97528743
Angled cable gland with O-ring and lock nut		obsolete	97842998

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

CATEGORY 2 - CME BOOSTERS

CMBE VARIABLE SPEED PACKAGE SET

Model	Pump build code	200-240V 1ph 50/60Hz	
		£	Product Code
CMBE 1-44	I U C D D A	1,837	98374679
CMBE 3-93	I U C D D A	2,430	98374694
CMBE 1-99	I U C D D A	obsolete	98374691
CMBE 3-30	I U C D D A	1,987	98374692
CMBE 3-62	I U C D D A	2,208	98374693
CMBE 3-93	I U C D D A	2,430	98374694
CMBE 5-31	I U C D D B	2,999	98374695
CMBE 5-62	I U C D D B	3,221	98374696
CMBE 10-54	I U C D D C	3,590	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



PRESSURE MANAGER

WRAS Approved

Model		Max current	1x220-240V 50/60 Hz	
			£	Product Code
PM1 15	cut in 1.5bar, cut out at no flow.	6A	255	96848670
PM1 22	cut in 2.2bar, cut out at no flow.	6A	255	96848701
PM2	cut in variable from 1.5 to 5.5bar in steps of 0.5bar, cut out at no flow.	10A	294	96848738

Max liquid temperature: 40°C

Max ambient temperature: 50°C



		£	Product Code
Pressure tank (additional to PM2)	8 Litre vertical tank	91	96526321
OTHER ACCESSORIES		£	Product Code
Float level switch		137	GBPS0099
Spring loaded foot valves in Cast iron	1" BSPF	112	956110
	1"1/4 BSPF	170	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	65	96960786	CHI(E) 2 to CM(E) 1 or CM(E) 3	65	96960788
CH(N) 4 to CM 3 or CM 5	65	96960786	CHI(E) 4 to CM(E) 3 or CM(E) 5	65	96960788
CH 8 to CM 10	65	96960787	CHI(E) 8 to CM(E) 10	65	96960788
CH 12 to CM 10 or CM 15	65	96960787	CHI(E) 12 to CM(E) 10 or CM(E) 15	65	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					
PUMP WITH TOP SUCTION INLET					A W A T
MTA 30-150	86	G 1/2"	150	260	97989170
220-240/380-415V 3ph 50Hz					
220-240/380-440V 3ph 60Hz					A W A B
MTA 30-150	86	G 1/2"	153	260	97989184
220-240/380-415V 3ph 50Hz					
220-240/380-440V 3ph 60Hz					A W A T
MTA 60-130	200	G 3/4"	125	334	97989186
MTA 60-180	200	G 3/4"	175	376	97989187
MTA 60-250	200	G 3/4"	245	417	97989188
MTA 60-350	200	G 3/4"	345	458	97989206
220-240/380-415V 3ph 50Hz					
220-240/380-440V 3ph 60Hz					A W A B
MTA 60-130	200	G 3/4"	130.5	334	97989208
MTA 60-180	200	G 3/4"	180.5	376	97989221
MTA 60-250	200	G 3/4"	250.5	417	97989231
MTA 60-350	200	G 3/4"	350.5	458	97989236
220-240/380-415V 3ph 50Hz					
220-240/380-440V 3ph 60Hz					A W A T
MTA 90-130	270	G 3/4"	128	391	97989245
MTA 90-180	270	G 3/4"	178	441	97989246
MTA 90-250	270	G 3/4"	248	490	97989248
MTA 90-350	270	G 3/4"	348	540	97989250
220-240/380-415V 3ph 50Hz					
220-240/380-440V 3ph 60Hz					A W A B
MTA 90-130	270	G 3/4"	132.5	391	97989251
MTA 90-180	270	G 3/4"	182.5	441	97989252
MTA 90-250	270	G 3/4"	252.5	490	97989254
MTA 90-350	270	G 3/4"	352.5	540	97989273
220-240/380-415V 3ph 50Hz					
220-240/380-440V 3ph 60Hz					A W A T
MTA 120-180	440	G 1"1/4	180	438	97989275
MTA 120-250	440	G 1"1/4	250	500	97989276
MTA 120-280	440	G 1"1/4	280	562	97989278
MTA 120-350	440	G 1"1/4	350	624	97989280
220-240/380-415V 3ph 50Hz					
220-240/380-440V 3ph 60Hz					A W A B
MTA 120-180	440	G 1"1/4	183	438	97989292
MTA 120-250	440	G 1"1/4	253	500	97989293
MTA 120-280	440	G 1"1/4	283	562	97989294
MTA 120-350	440	G 1"1/4	353	624	97989297
220-240/380-415V 3ph 50Hz					
220-240/380-440V 3ph 60Hz					A W B B
MTA 200-250	790	G 1"1/2	250	838	97989298
MTA 200-280	790	G 1"1/2	280	943	97989299
MTA 200-350	790	G 1"1/2	350	1,048	97989300
220-240/380-415V 3ph 50Hz					
220-240/380-440V 3ph 60Hz					A W B T
MTA 20H-150	95	G 1/2"	150	334	97989301
MTA 40H-180	230	G 3/4"	180	437	97989302
MTA 70H-250	281	G 3/4"	250	499	97989303
MTA 100H-280	445	G 1"	280	822	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	649	39AH5001
SPK1-3/3	0.12	G 3/4" (3/4" BSPF)	182	722	39AH5103
SPK1-5/5	0.12	G 3/4" (3/4" BSPF)	224	812	39AH5205
SPK1-8/8	0.18	G 3/4" (3/4" BSPF)	287	1,018	39AH5308
SPK1-11/11	0.25	G 3/4" (3/4" BSPF)	350	1,133	39AH0411
SPK1-15/15	0.37	G 3/4" (3/4" BSPF)	434	1,292	39AH0515
SPK1-19/19	0.37	G 3/4" (3/4" BSPF)	518	1,375	39AH0619
SPK1-23/23	0.55	G 3/4" (3/4" BSPF)	602	1,613	39AH0723
SPK2-1/1	0.06	G 3/4" (3/4" BSPF)	140	648	39DH5001
SPK2-3/3	0.12	G 3/4" (3/4" BSPF)	182	803	39DH5103
SPK2-5/5	0.18	G 3/4" (3/4" BSPF)	224	874	39DH5205
SPK2-8/8	0.37	G 3/4" (3/4" BSPF)	287	1,040	39DH0308
SPK2-11/11	0.37	G 3/4" (3/4" BSPF)	350	1,130	39DH0411
SPK2-15/15	0.55	G 3/4" (3/4" BSPF)	434	1,288	39DH0515
SPK2-19/19	0.75	G 3/4" (3/4" BSPF)	518	1,370	98776571
SPK2-23/23	0.75	G 3/4" (3/4" BSPF)	602	1,607	98776573
SPK4-1/1	0.25	G 3/4" (3/4" BSPF)	140	701	39GH0001
SPK4-3/3	0.25	G 3/4" (3/4" BSPF)	182	798	39GH0103
SPK4-5/5	0.37	G 3/4" (3/4" BSPF)	224	915	39GH0205
SPK4-8/8	0.55	G 3/4" (3/4" BSPF)	287	1,076	39GH0308
SPK4-11/11	0.75	G 3/4" (3/4" BSPF)	350	1,248	98776576
SPK4-15/15	1.1	G 3/4" (3/4" BSPF)	434	1,530	98776578
SPK4-19/19	1.1	G 3/4" (3/4" BSPF)	518	1,674	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 AQV	
MTH 2-3/3	0.55	Rp 3/4"	145	939	98992572
MTH 2-4/4	0.75	Rp 3/4"	163	961	98992589
MTH 2-5/5	0.75	Rp 3/4"	181	984	98992605
MTH 2-6/6	1.1	Rp 3/4"	199	1,011	98992621
MTH 2-7/7	1.1	Rp 3/4"	217	1,078	98992633
MTH 2-8/8	1.1	Rp 3/4"	235	1,101	98992642
MTH 2-9/9	1.1	Rp 3/4"	253	1,123	98992649
MTH 2-10/10	1.1	Rp 3/4"	271	1,147	98992652
MTH 2-11/11	1.1	Rp 3/4"	289	1,173	98992654
MTH 4-2/1	0.55	Rp 3/4"	145	941	98993021
MTH 4-2/2	0.55	Rp 3/4"	145	963	98993029
MTH 4-3/3	0.75	Rp 3/4"	172	987	98993037
MTH 4-4/4	1.1	Rp 3/4"	199	1,013	98993044
MTH 4-5/5	1.1	Rp 3/4"	226	1,035	98993050
MTH 4-6/6	1.1	Rp 3/4"	253	1,059	98993060
MTH 4-7/7	1.5	Rp 3/4"	280	1,506	98993068
MTH 4-8/8	1.5	Rp 3/4"	307	1,552	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	1,179	96514842
MTR 1s-3/3	0.37	178	1,197	96514843
MTR 1s-4/4	0.37	196	1,215	96514844
MTR 1s-5/5	0.37	214	1,231	96514845
MTR 1s-6/6	0.37	232	1,253	96514846
MTR 1s-7/7	0.37	250	1,265	96514847
MTR 1s-8/8	0.37	268	1,287	96514848
MTR 1s-9/9	0.37	286	1,300	96514849
MTR 1s-10/10	0.37	304	1,321	96514850
MTR 1s-11/11	0.37	322	1,337	96514851
MTR 1s-12/12	0.37	340	1,355	96514853
MTR 1s-13/13	0.55	358	1,367	96514854
MTR 1s-15/15	0.55	394	1,433	96514855
MTR 1s-17/17	0.55	430	1,469	96514857
MTR 1s-19/19	0.55	466	1,504	96514858
MTR 1s-21/21	0.75	502	1,598	98406764
MTR 1s-22/22	0.75	520	1,614	98511194
MTR 1s-23/23	0.75	538	1,632	98511195
MTR 1s-25/25	0.75	574	1,667	98511196
MTR 1s-26/26	1.1	592	1,678	98511197
MTR 1s-27/27	1.1	610	1,746	98511198
MTR 1s-30/30	1.1	664	1,813	98511200
MTR 1s-33/33	1.1	718	1,849	98511251
MTR 1s-36/36	1.1	772	1,902	98511252

MTR 1-2/2	0.37	160	1,264	96514868
MTR 1-3/3	0.37	178	1,279	96514869
MTR 1-4/4	0.37	196	1,292	96514870
MTR 1-5/5	0.37	214	1,301	96514871
MTR 1-6/6	0.37	232	1,312	96514872
MTR 1-7/7	0.37	250	1,322	96514873
MTR 1-8/8	0.55	268	1,349	96514874
MTR 1-9/9	0.55	286	1,374	96514875
MTR 1-10/10	0.55	304	1,382	96514876
MTR 1-11/11	0.55	322	1,392	96514877
MTR 1-12/12	0.75	340	1,433	98511253
MTR 1-13/13	0.75	358	1,449	98511254
MTR 1-15/15	0.75	394	1,474	98511255
MTR 1-17/17	1.1	430	1,579	98511256
MTR 1-19/19	1.1	466	1,597	98511257
MTR 1-21/21	1.1	502	1,621	98511258
MTR 1-22/22	1.1	520	1,631	98511259
MTR 1-23/23	1.1	538	1,645	98511260
MTR 1-25/25	1.5	574	2,078	98511261
MTR 1-26/26	1.5	592	2,093	98511262
MTR 1-27/27	1.5	610	2,102	98511263
MTR 1-30/30	1.5	664	2,157	98511264
MTR 1-33/33	2.2	718	2,395	98513535
MTR 1-36/36	2.2	772	2,428	98492759

MTR 3-2/2	0.37	160	1,251	96514893
MTR 3-3/3	0.37	178	1,260	96514894
MTR 3-4/4	0.37	196	1,275	96514895
MTR 3-5/5	0.37	214	1,285	96514896
MTR 3-6/6	0.55	232	1,326	96514897
MTR 3-7/7	0.55	250	1,342	96514898
MTR 3-8/8	0.75	268	1,378	98511266
MTR 3-9/9	0.75	286	1,397	98511267
MTR 3-10/10	0.75	304	1,411	98511268
MTR 3-11/11	0.75	322	1,419	98511269
MTR 3-12/12	1.1	340	1,550	98511270
MTR 3-13/13	1.1	358	1,561	98511271
MTR 3-15/15	1.1	394	1,585	98511272
MTR 3-17/17	1.5	430	2,052	97946744
MTR 3-19/19	1.5	466	2,076	98494988
MTR 3-21/21	2.2	502	2,240	98511273
MTR 3-22/22	2.2	520	2,249	98511274
MTR 3-23/23	2.2	538	2,264	98511275
MTR 3-25/25	2.2	574	2,286	98511276
MTR 3-26/26	2.2	592	2,298	98509384
MTR 3-27/27	2.2	610	2,311	98494192
MTR 3-30/30	2.2	664	2,461	98511281
MTR 3-33/33	3	718	2,510	98511282
MTR 3-36/36	3	772	2,543	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 60 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	1,221	96514917
MTR 5-3/3	0.55	196	1,267	96514918
MTR 5-4/4	0.55	223	1,283	96514919
MTR 5-5/5	0.75	250	1,345	98511284
MTR 5-6/6	1.1	277	1,469	98511286
MTR 5-7/7	1.1	304	1,484	98096418
MTR 5-8/8	1.1	331	1,503	98511287
MTR 5-9/9	1.5	358	1,952	97938362
MTR 5-10/10	1.5	385	1,972	98511288
MTR 5-12/12	2.2	439	2,106	98330756
MTR 5-14/14	2.2	493	2,136	98513569
MTR 5-16/16	2.2	547	2,168	98513570
MTR 5-17/17	3	583	2,315	98513571
MTR 5-18/18	3	601	2,328	98513572
MTR 5-19/19	3	628	2,348	98513573
MTR 5-20/20	3	655	2,363	98513574
MTR 5-21/21	4	682	2,372	98513575
MTR 5-22/22	4	709	2,855	98429669
MTR 5-24/24	4	763	2,888	98513576
MTR 5-26/26	4	817	2,917	98513577
MTR 5-29/29	4	898	2,963	98513578
MTR 5-32/32	5.5	979	3,694	98513579
MTR 8-1/1	0.37	196	1,081	98825612
MTR 8-2/2-1	0.55	223	1,132	98825613
MTR 8-2/2	0.75	223	1,178	98825614
MTR 8-3/3-1	0.75	250	1,207	98825615
MTR 8-3/3	1.1	250	1,232	98825616
MTR 8-4/4-1	1.1	277	1,265	98825617
MTR 8-4/4	1.5	277	1,688	98825618
MTR 8-5/5-1	1.5	304	1,770	98825619
MTR 8-5/5	2.2	304	obsolete	98825696
MTR 8-6/6-1	2.2	331	1,899	98825697
MTR 8-6/6	2.2	331	1,951	98825698
MTR 8-7/7-1	2.2	358	2,005	98825699
MTR 8-7/7	2.2	358	2,038	98825700
MTR 8-8/8-1	3	385	2,373	98825701
MTR 8-8/8	3	385	2,391	98825702
MTR 8-9/9-1	3	412	2,409	98825703
MTR 8-9/9	3	412	2,427	98825704
MTR 8-10/10-1	3	439	2,443	98825705
MTR 8-10/10	3	439	2,460	98825706
MTR 8-11/11	4	466	2,953	98825707
MTR 8-12/12	4	493	2,990	98825708
MTR 8-13/13	4	520	3,026	98825709
MTR 8-14/14	5.5	547	3,675	98825710
MTR 8-15/15	5.5	574	3,711	98825711
MTR 8-16/16	5.5	601	3,744	98825712
MTR 8-17/17	5.5	628	3,780	98825713
MTR 8-18/18	5.5	655	3,832	98825714
MTR 8-19/19	7.5	682	3,905	98825715
MTR 8-20/20	7.5	709	3,938	98825716
MTR 8-21/21	7.5	736	3,974	98825717
MTR 8-22/22	7.5	763	4,009	98825719
MTR 8-23/23	7.5	790	4,042	98825720
MTR 8-24/24	7.5	817	4,079	98825721
MTR 8-25/25	7.5	844	4,115	98825722
MTR 10-2/1	0.75	148	1,709	98511303
MTR 10-2/2	0.75	148	1,764	98511304
MTR 10-3/3	1.1	178	1,860	98511305
MTR 10-4/4	1.5	208	2,177	98511306
MTR 10-5/5	2.2	238	2,307	98513584
MTR 10-6/6	2.2	268	2,353	98513585
MTR 10-7/7	3	298	2,459	98513586
MTR 10-8/8	3	328	2,506	98513587
MTR 10-9/9	3	358	2,555	98513589
MTR 10-10/10	4	388	3,150	98513590
MTR 10-12/12	4	448	3,247	98513591
MTR 10-14/14	5.5	508	3,828	98513592
MTR 10-16/16	5.5	568	3,922	98513594
MTR 10-18/18	7.5	628	4,038	98513595
MTR 10-20/20	7.5	688	4,131	98513596
MTR 10-22/22	7.5	748	4,227	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 60 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

Model	P2 kW	Depth B (mm)	400V 3ph 50Hz	
			£	Product Code
			A W A HUUUV	
MTR 15-2/1	1.1	178	1,849	98407083
MTR 15-2/2	2.2	178	2,114	98513599
MTR 15-3/3	3	223	2,348	98513600
MTR 15-4/4	4	268	2,769	98513601
MTR 15-5/5	4	313	2,839	98513602
MTR 15-6/6	5.5	358	3,349	98282545
MTR 15-7/7	5.5	403	3,420	98513654
MTR 15-8/8	7.5	448	3,684	98330630
MTR 15-9/9	7.5	493	3,752	98513656
MTR 15-10/10	11	538	5,622	98513657
MTR 15-12/12	11	628	5,758	98513658
MTR 15-14/14	11	718	5,903	98513659
MTR 15-16/16	15	808	7,516	98383020
MTR 15-17/17	15	853	7,583	98513660
MTR 20 -2/1	1.1	178	2,014	98511336
MTR 20 -2/2	2.2	178	2,299	98513662
MTR 20 -3/3	4	223	3,089	98513663
MTR 20 -4/4	5.5	268	3,656	98513664
MTR 20 -5/5	5.5	313	3,723	98513666
MTR 20 -6/6	7.5	358	4,014	98513667
MTR 20 -7/7	7.5	403	4,088	98513668
MTR 20 -8/8	11	448	6,285	98513669
MTR 20 -10/10	11	538	6,426	98513670
MTR 20 -12/12	15	628	8,118	98441644
MTR 20 -14/14	15	718	8,256	98513671
MTR 20 -16/16	18.5	808	9,570	98513672
MTR 20 -17/17	18.5	853	9,708	98513673
MTR 32-2/1-1	1.5	223	2,672	98511349
MTR 32-2/1	2.2	223	Obsolete	98513676
MTR 32-2/2-2	3	223	3,161	98513677
MTR 32-2/2	4	223	3,718	98513678
MTR 32-3/3	5.5	293	4,807	98446579
MTR 32-4/4	7.5	363	5,987	98349230
MTR 32-5/5	11	433	7,649	98513679
MTR 32-6/6	11	503	8,069	98349249
MTR 32-7/7	15	573	9,495	98513680
MTR 32-8/8	15	643	9,911	98513681
MTR 32-9/9	18.5	713	11,253	98381028
MTR 32-10/10	18.5	783	11,669	98513682
MTR 32-11/11	22	853	13,094	98513683
MTR 32-12/12	22	923	13,511	98395376
MTR 32-13/13	30	993	16,358	98513685
MTR 32-14/14	30	1063	16,771	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 60 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 kW	Depth B (mm)	400V 3ph 50Hz	
			£	Product Code
			A F A HUUV	
MTR 45-2/1-1	3	244	3,260	98513687
MTR 45-2/1	4	244	3,542	98513688
MTR 45-2/2-2	5.5	244	4,623	98513697
MTR 45-2/2	7.5	244	5,781	98513698
MTR 45-3/3-2	11	324	7,681	98513699
MTR 45-3/3	11	324	7,681	98513700
MTR 45-4/4-2	15	404	9,537	98513701
MTR 45-4/4	15	404	9,537	98513702
MTR 45-5/5-2	18.5	484	11,350	98513704
MTR 45-5/5	18.5	484	11,350	98513705
MTR 45-6/6-2	22	564	12,877	98513706
MTR 45-6/6	22	564	12,877	98513707
MTR 45-7/7-2	30	644	14,040	98513708
MTR 45-7/7	30	644	14,040	98513709
MTR 45-8/8-2	30	724	14,956	98513710
MTR 45-8/8	30	724	14,956	98513711
MTR 45-9/9-2	30	804	15,428	98513712
MTR 45-9/9	37	804	16,813	98513713
MTR 45-10/10-2	37	884	17,235	98513714
MTR 45-10/10	37	884	17,235	98513715
MTR 45-11/11-2	45	964	22,248	98513716
MTR 45-11/11	45	964	22,248	98513717
MTR 45-12/12-2	45	1044	22,773	98513718
MTR 45-12/12	45	1044	22,773	98513719
MTR 45-13/13-2	45	1124	23,299	98513720
MTR 64-2/1-1	4	249	3,526	98513732
MTR 64-2/1	5.5	249	4,378	98513733
MTR 64-2/2-2	7.5	249	5,596	98513735
MTR 64-2/2-1	11	249	6,926	98513736
MTR 64-2/2	11	249	7,320	98513737
MTR 64-3/3-2	15	332	9,196	98513738
MTR 64-3/3-1	15	332	9,196	98513739
MTR 64-3/3	18.5	332	10,571	98513740
MTR 64-4/4-2	18.5	414	11,096	98513742
MTR 64-4/4-1	22	414	12,291	98513743
MTR 64-4/4	22	414	12,291	98513744
MTR 64-5/5-2	30	497	13,113	98513745
MTR 64-5/5-1	30	497	13,113	98513746
MTR 64-5/5	30	497	13,113	98513747
MTR 64-6/6-2	30	579	13,644	98513748
MTR 64-6/6-1	37	579	16,161	98513749
MTR 64-6/6	37	579	16,161	98513750
MTR 64-7/7-2	37	662	16,686	98513752
MTR 64-7/7-1	37	662	16,686	98513753
MTR 64-7/7	45	662	22,206	98513754
MTR 64-8/8-2	45	744	22,729	98513755
MTR 64-8/8-1	45	744	22,729	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 60 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

Model	P2 kW	Depth B (mm)	380-500V 3ph 50/60Hz	
			£	Product Code
			HS W A HUUV	
MTRE 1s-19/19	4	466	3,814	99159851
MTRE 1-19/19	5.5	466	4,199	99159863
MTRE 3-19/19	7.5	466	4,582	99159865

Pipe Connections

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

ELECTRIC MOTOR

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

IP55 Class F insulation

IMPORTANT

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

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



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	✓	✓	✓	✓	FOC	GBLOC001
(Certificate of Compliance with the Order 2.1 - Non specific inspection and testing)						
Typical Test Certificate (Test Report - Non specific inspection and testing 2.2)	✓	✓	✓	✓	70	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

Notes

Notes

CONDITIONS OF SALE AND SERVICE

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

1. INTERPRETATION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Quotation: a written quotation issued by Grundfos.

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

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

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

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

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

1.2 Headings in these conditions shall not affect their interpretation.

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

1.4 The schedules and annexes form part of this Agreement.

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

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

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

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

2. Basis of Agreement

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

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

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

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

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

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

2.4 These Conditions shall:

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

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

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

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

2.6 Quotations shall only be valid if issued in writing.

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

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

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

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

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

3. Equipment

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

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

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

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

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

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

4. Delivery of Equipment

4.1 Grundfos shall deliver the Equipment to the Delivery Location.

4.2 Delivery of the Equipment shall be completed on:

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

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

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

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

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

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

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

(b) Grundfos may:

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

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

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

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

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

4.8 Grundfos may deliver the Equipment by instalments.

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

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

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

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

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

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

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

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