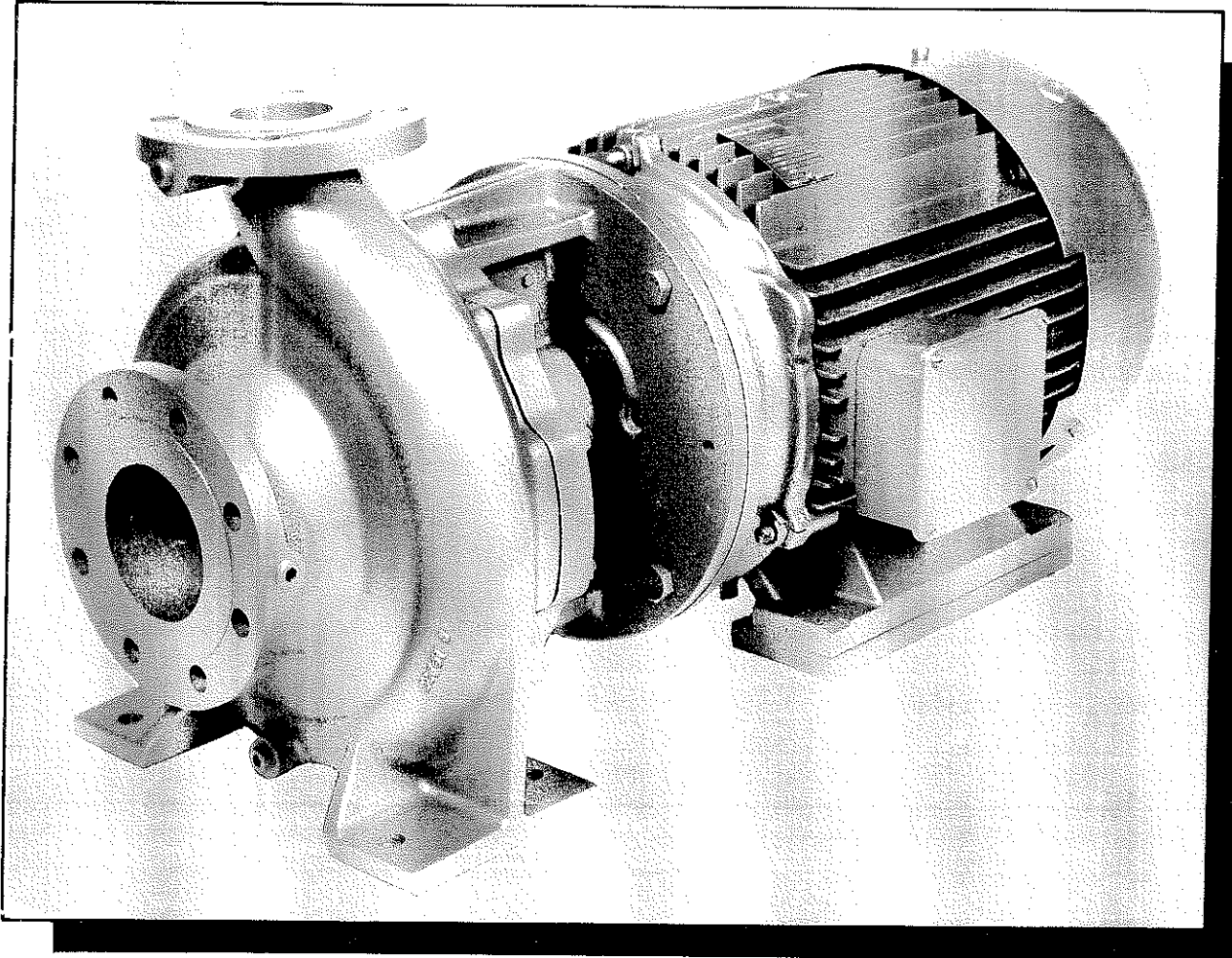


## Horizontal Close Coupled End Suction Pump



### INTRODUCTION

The STARBLOC is a horizontal, single stage, close coupled end suction pump, having performance and casing seal cavity to ISO 2858 and BS 5257. The robust construction of the pump ensures trouble free operation with minimal maintenance even on the most arduous of operations.

The centre line discharge branches and the integral feet which are cast onto the hydraulic casings ensure that no pipe strain is passed to the pedestals to upset the alignment of the rotating element.

Back vanes are an integral part of all the shrouded impellers which ensure hydraulic balance of the impellers. Impellers are cast in one piece thereby removing stress and corrosion points.

The back pull out design allows the Pedestal/Seal/Impeller module to be withdrawn from the body casing without the necessity to break any pipework connections.

As the design is based around ISO 2858 and BS 5257 the STARBLOC is interchangeable in pipe fixing dimensions and performance with any pump built to the same specification.

### APPLICATIONS

Hot and Cold water circulation, process liquid transfer, industrial liquid transfer, boosting and pressurisation installations.

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COMPONENT	ALL SIZES TO ISO 2858	25-95 & 32-120 Standard Gun Metal
BODY	CAST IRON BS 1452 GRADE 260	GR220
IMPELLER	GUN METAL BS 1400 LG 2C ALTERNATIVELY CAST IRON BS 1452 GR 260	GUN METAL BS1400 LG 2C
PEDESTAL/ SEAL BOX	CAST IRON BS 1452 GR 220	
SHAFT	STAINLESS STEEL BS 970 GRADE 431 S29	
SEAL	DIN 24960 SELF ADJUSTING	CRANE 106A
MOTOR	DP & TEFV FLANGE/FOOT MOUNTED TO BS 5000 AND BS 4999 CL 'F'	TEFV FLANGE MOUNTED BS 5000 PART II CL 'B'
ADDITIONAL INFORMATION	PUMPS CAN BE SUPPLIED WITH ALTERNATIVE MECHANICAL SEALS AND MATERIALS OF CONSTRUCTION TO SUIT APPLICATION	32-120 PUMPS CAN ONLY BE SUPPLIED WITH 3 PHASE MOTORS AT 2 POLE SPEED

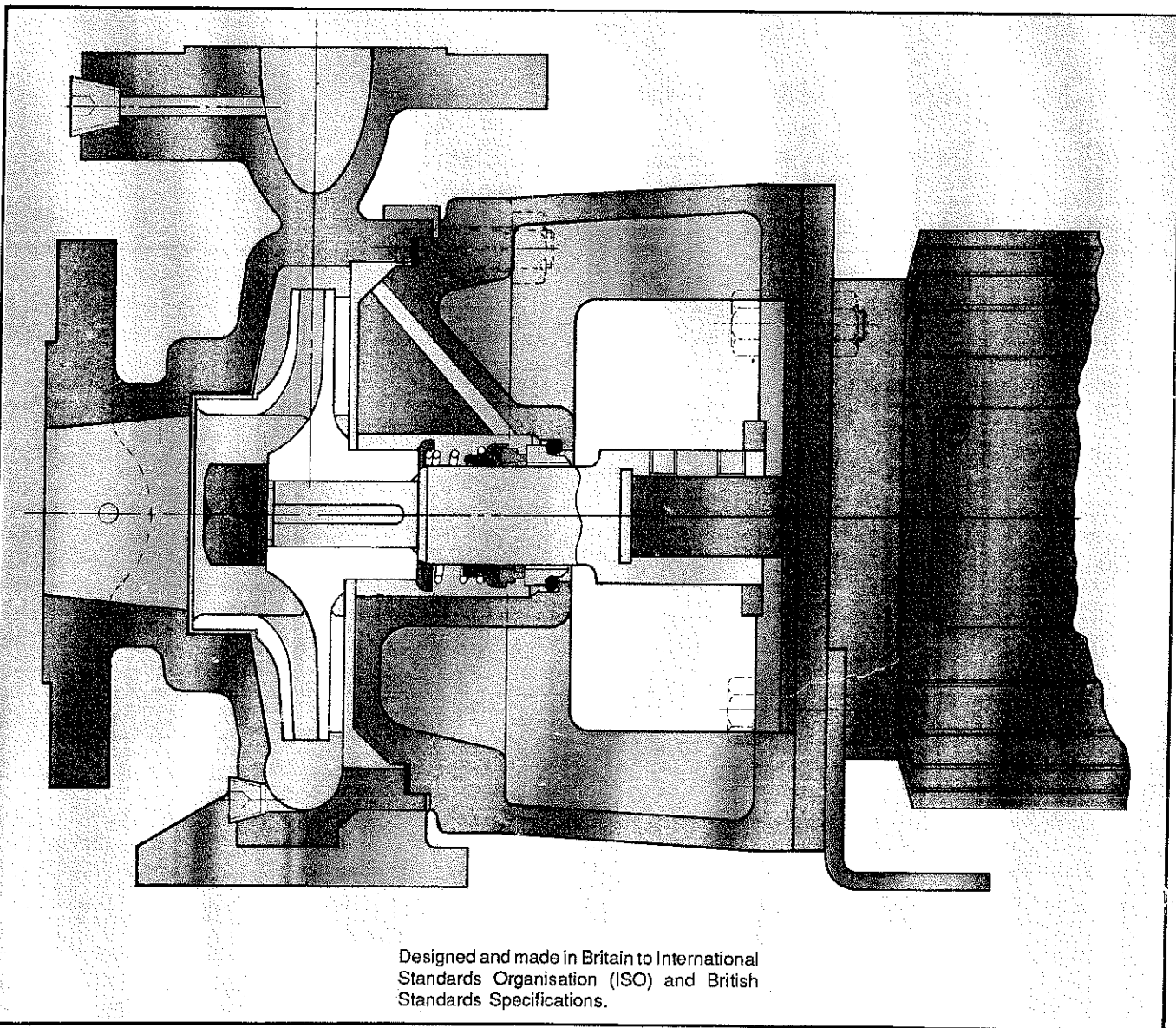
OPERATING CONDITIONS

PRESSURE	10 BAR TOTAL SYSTEM STATIC AND DEVELOPED HEAD	6 BAR TOTAL SYSTEM STATIC AND DEVELOPED HEAD
TEMPERATURE	UP TO 130°C WITH CARBON/NI RESIST UNCOOLED MECHANICAL SEAL. UP TO 160°C WITH CARBON/SINTERED TUNGSTON MECHANICAL SEAL	120°C MAXIMUM
PUMP FLANGES	BS 4504 16 BAR RATING	SCREWED BSP FEMALE
PUMP SPEED	UP TO 3600 RPM AS MOTOR SPEED	
ROTATION	ANTI-CLOCKWISE VIEWED ON PUMP INLET	
DISCHARGE	NORTH ONLY	

NOTE

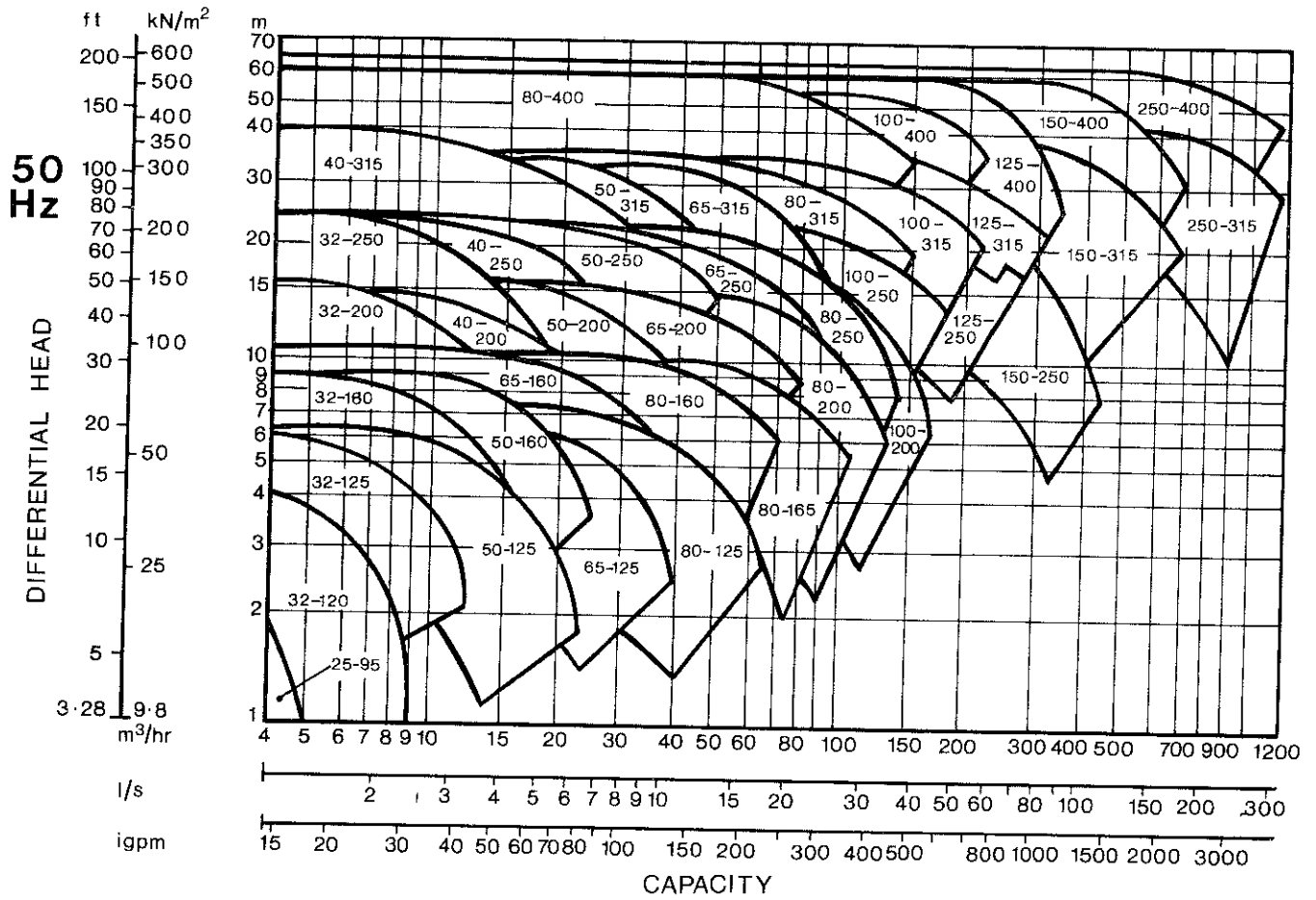
Higher pressures can be accomodated refer to local branch office for details.

TYPICAL SECTION

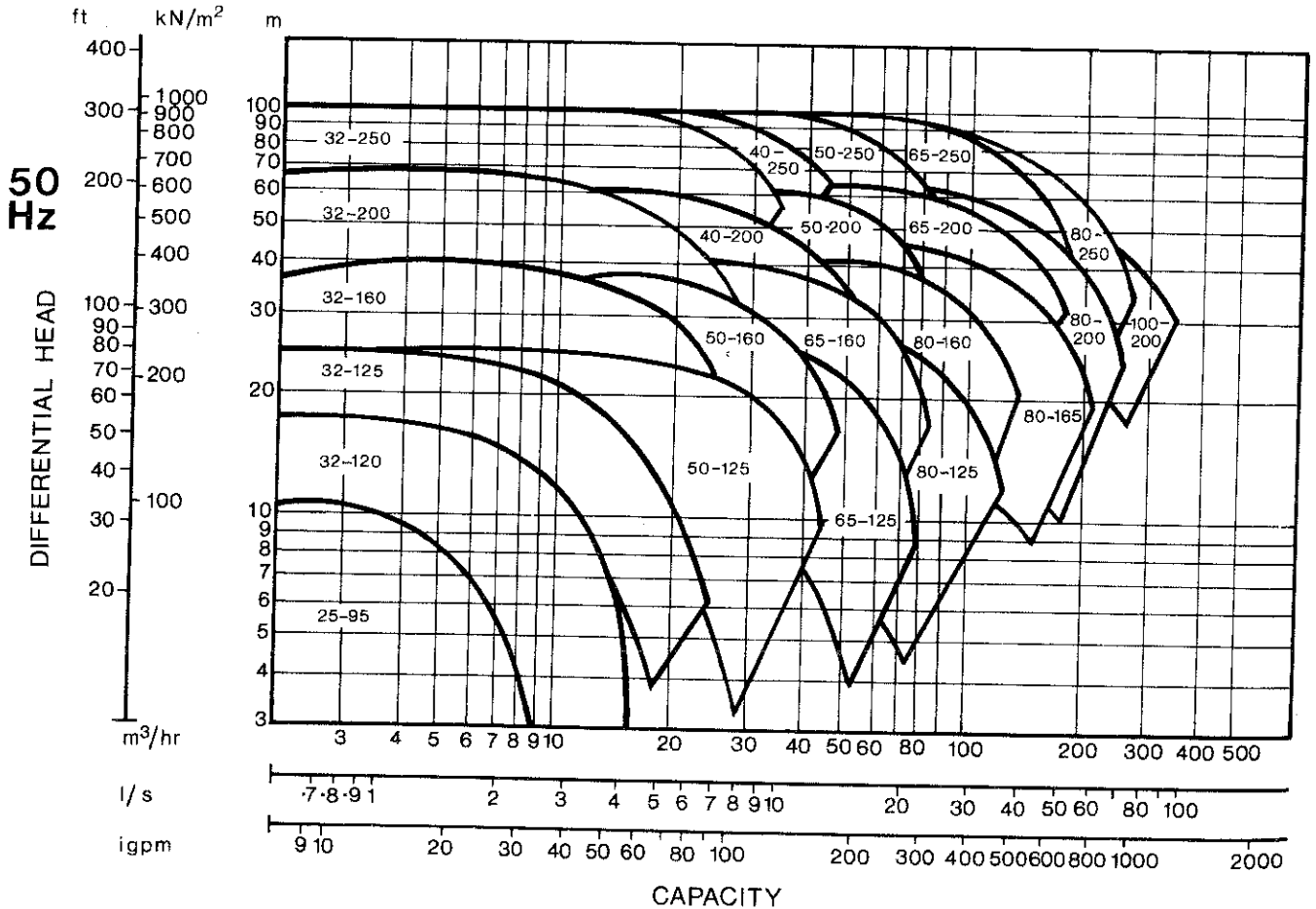


Designed and made in Britain to International  
Standards Organisation (ISO) and British  
Standards Specifications.

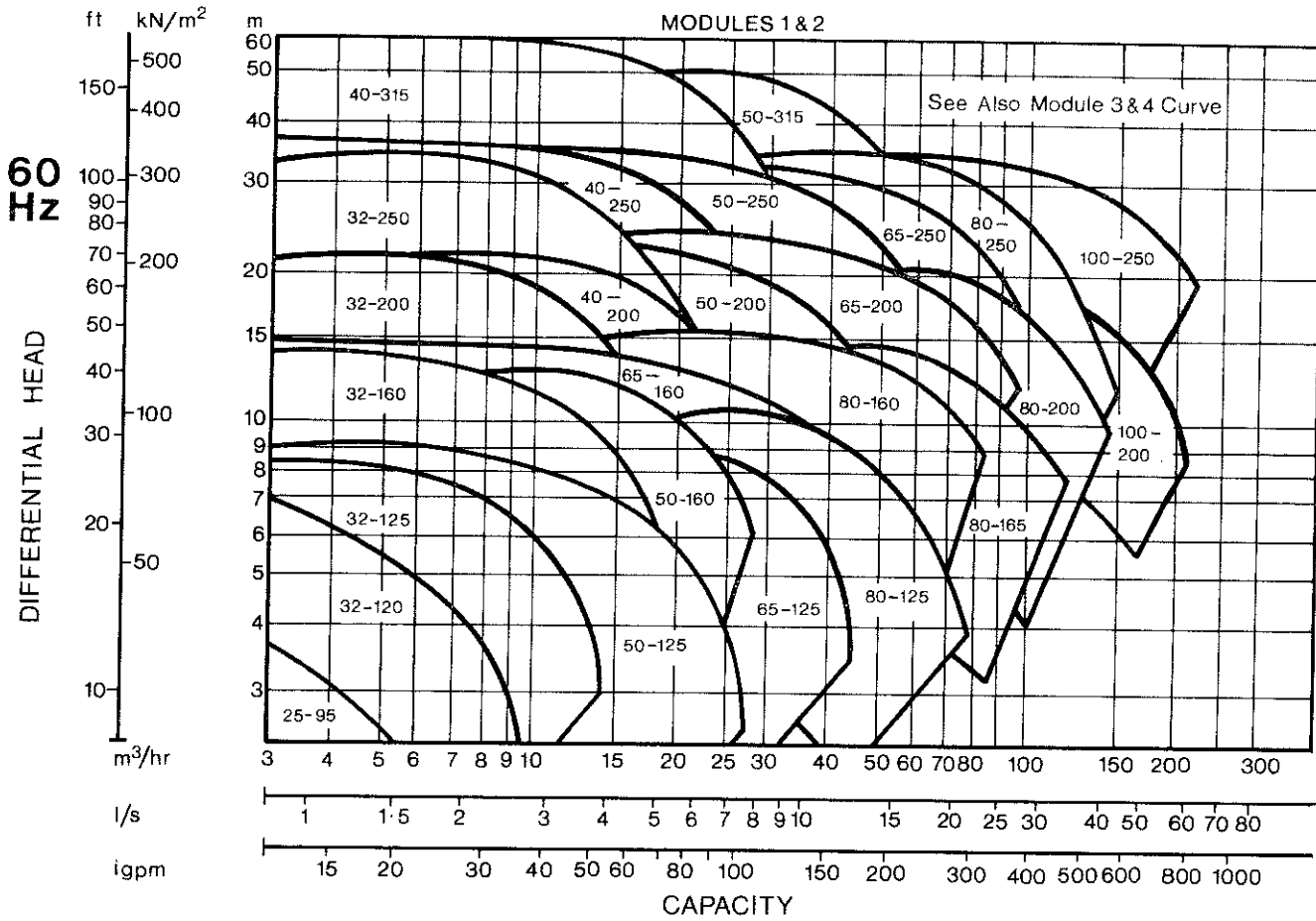
SELECTION CHART STAR RANGE  
 END SUCTION PUMPS 1450 RPM  
 PERFORMANCE ON WATER SG = 1.0



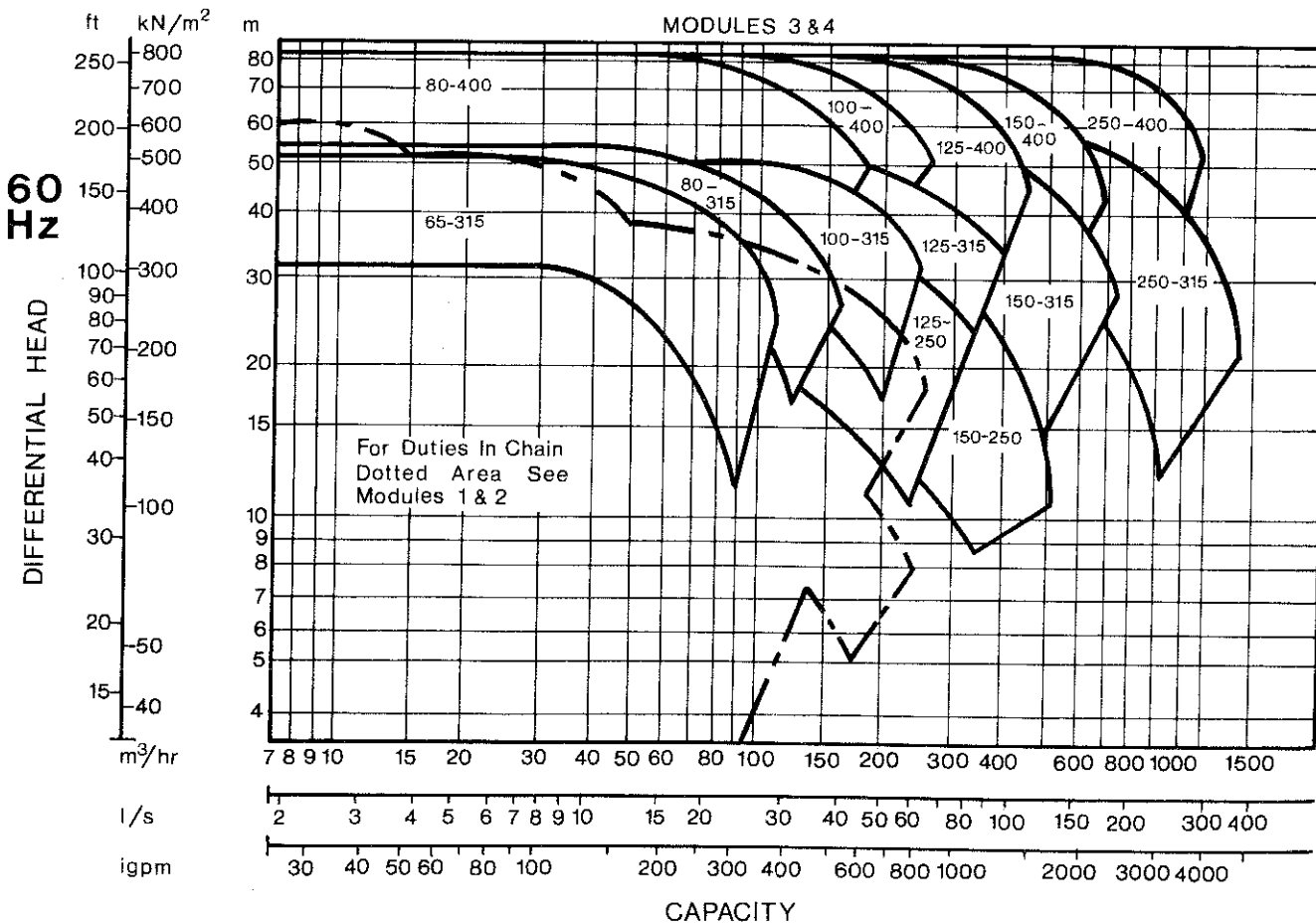
SELECTION CHART STAR RANGE  
 END SUCTION PUMPS 2900 RPM  
 PERFORMANCE ON WATER SG = 1.0

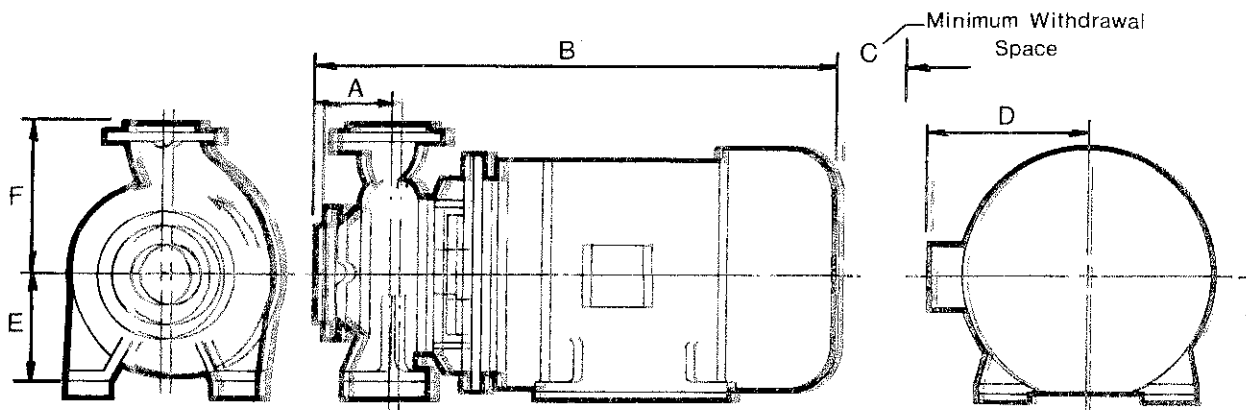


SELECTION CHART STAR RANGE  
 END SUCTION PUMPS 1750 RPM  
 PERFORMANCE ON WATER SG = 1.0



SELECTION CHART STAR RANGE  
 END SUCTION PUMPS 1750 RPM  
 PERFORMANCE ON WATER SG = 1.0





Pump and/or Motor Parts May Be  
Required (see certified G.A. Drawing)

PUMP TYPE	INLET SIZE	OUTLET SIZE	No. of Poles	Max Motor Frame	KW Rating	A	B	C	D	E	F	Approx Weight kg		
25-95	1 1/2" BSP FEM	1 1/8" BSP FEM	44	BM67	0.225	800	370	60	100	90	110	13		
			22	BM69	0.37		325		120			15		
32-120	1 1/2" BSP FEM	1 1/4" BSP FEM	44	BM67	0.225	800	365	55	100	112	135	19		
			22	BM69	11.1		445		120			22		
32-125	50"	32"	44	B56	0.37	800	507	120	140	132	160	48		
22			D90L	2.2	577		140		55					
32-160	50"	32"	44	B56	0.55	800	507	120	120	132	160	58		
22			D12M	4.0	585		202		90					
32-200	50"	32"	4	D90S	11.1	800	507	120	140	160	180	87		
2			D132S	7.5	554		230		125					
32-250	50"	32"	4	D100L	2.2	1000	602	160	164	180	2.25	106		
			2	C160M	15.0		504		261			180	180	205
40-200	65	40	44	D90L	1.65	100	555	130	140	160	180	77		
			2	C160M	15.0		804		261			180	180	180
			4	D160M	3.0		836		258			175	175	
40-250	65	40	4	D100L	3.0	100	602	160	154	180	2.25	108		
2			C160L	2.2	848		261		180			199		
40-315	65	40	44	D132S	5.5	125	751	160	230	200	250	180		
2			D160M	2.2	943		279		263			263		
50-125	65	50	44	B56	0.37	800	507	120	120	112	140	55		
2			D112M	4.0	568		202		89					
50-160	65	50	4	B56	0.75	800	507	120	120	132	160	65		
2			D132S	5.5	654		230		127					
50-200	80	50	4	D100L	2.2	1000	588	140	154	160	200	93		
22			C160L	2.2	534		261		180			185		
50-250	80	50	44	D112M	4.0	125	547	160	202	180	2.25	130		
2			C180L	37.0	1025		289		267			377		
50-315	80	50	4	D132M	7.5	125	751	160	230	225	280	195		
2			D160M	15.0	909		258		208			208		
65-125	80	65	4	B56	0.75	100	527	140	120	132	160	59		
22			D132S	7.5	555		230		120			120		
65-160	80	65	44	D90S	11.1	100	530	140	140	160	180	67		
			22	C160M	15.0		790		261			180	163	
65-200	80	65	44	D112M	4.0	100	622	160	202	180	2.25	105		
			22	C180M	30.0		869		289			208	208	
65-250	100	65	44	D132M	7.5	125	751	160	230	200	250	170		
			22	C200L	37.5		1012		345			395	395	
65-315	100	65	4	C160M	11.0	125	847	200	252	225	280	260		
			2	D160M	15.0		878		258			278	278	

PUMP TYPE	INLET SIZE	OUTLET SIZE	Nº of Poles	Max Motor Frame	kW Rating	A	B	C	D	E	F	Approx Weight kg
80-125	100		4	D90L	1.5	100	537	165	140	160	180	69
			2	C160M	11.0		771		261			160
				D160M			817		258			172
80-160			4	D100L	2.2		602	154	91			
				2	C160L		18.5	848	261			185
			D160L		895			258	209			
80-165	80		4	D100L	3.0	125	627	180	154	180	225	94
			2	C180M	30.0		894		289			228
				D200L			1025		357			358
80-200			4	D132S	5.5		713	230	158			
				2	C180L		37.0	936	289			264
			D200L		1025			357	380			
80-250	125		4	D160M	11.0	170	875	170	258	225	280	220
			2	C225M	75.0		1112		400			450
				D250M			1165		407			703
80-315			4	C160L	18.5		891	252	299			
				D180M			944	279	315			
			80-400	4	C180L		30.0	950	270			421
D200L	1034	357			527							
100-200	125	100	4	D132M	7.5	125	751	190	230	200	280	171
			2	C225M	75.0		1112		400			443
				D250M			1165		407			802
100-250			4	C160L	15.0		906	252	256			
				D160L			938	258	276			
			100-315	4	C180L		30.0	965	279			352
D200L	1049	357			456							
100-400	4	C200L		45.0	1045	376	562					
		D225M	1120		362	632						
125-250	150	125	4	C160L	18.5	140	906	210	252	250	355	314
				D180M			959		279			375
				C200M	37.0		1007		376			492
D225S				1236			362	535				
125-315				4	C250S		75.0	1082	413			806
					D250M			1187	407			878
125-400	4	C180L	30.0	985	270	385						
		D200L		1069	357	491						
	150-250	200	150	4	C250S	75.0	160	1207	260	413	315	400
D250M					1590			407		875		
C280S					110.0	1338		445		980		
D280M	1715					420		1124				
150-315	4				C280S	110.0		1403	445	1104		
					D250M			1780	420	1249		
	150-400	4	C315S	185.0	1490	483	1364					
D315M			1873		450	1647						
250-315	300	250	4	C280S	110.0	225	1403	315	445	400	560	1104
				D250M			1780		420			1249
				C315S	185.0		1490		483			1364
D315M				1873			450	1647				
250-400				4	C315S		185.0	1490	483			1364
					D315M			1873	450			1647

**NOTE:**

- 'C' Frame Motors Are Drip Proof Enclosure
- 'D' Frame Motors Are Totally Enclosed Fan Ventilated
- Motors Shaded Are 2900 RPM
- Certified Drawings Will Be Supplied On Application
- Pumps Can Be Fitted With Anti Vibration Isolators As An Optional Extra

Note: Improvements in general design and modifications in detail will be embodied for the benefit of clients as and when introduced; consequently this specification is subject to alteration, as may be necessary, without notice.

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