

PAZ Close Coupled Centrifugal Pump



PAZ CLOSE COUPLED CENTRIFUGAL PUMPS



Design

PAX single stage, close coupled, horizontal, centrifugal pumps conforming to DIN 24255 standards with respect to performance and key dimensions. Back pull-out construction for ease of maintenance without disturbing suction or discharge pipework.

Operating Data

Discharge Flanges	32mm to 150mm
Flange Specification	BS 4504 PN 16
Optional Flanges	AISI 150 RF
Max Working Pressure	16 bar
Maximum Temperature	100° C
Minimum Temperature	-20° C

Applications

- Water Supply
- Cooling Water
- Air Conditioning
- Industrial Fluids

Electric Motors

Pumps may be supplied complete with flange mounted motors to suit customer requirements. Normally TEFC motors to IEC dimensions are supplied as standard.

Materials of Construction

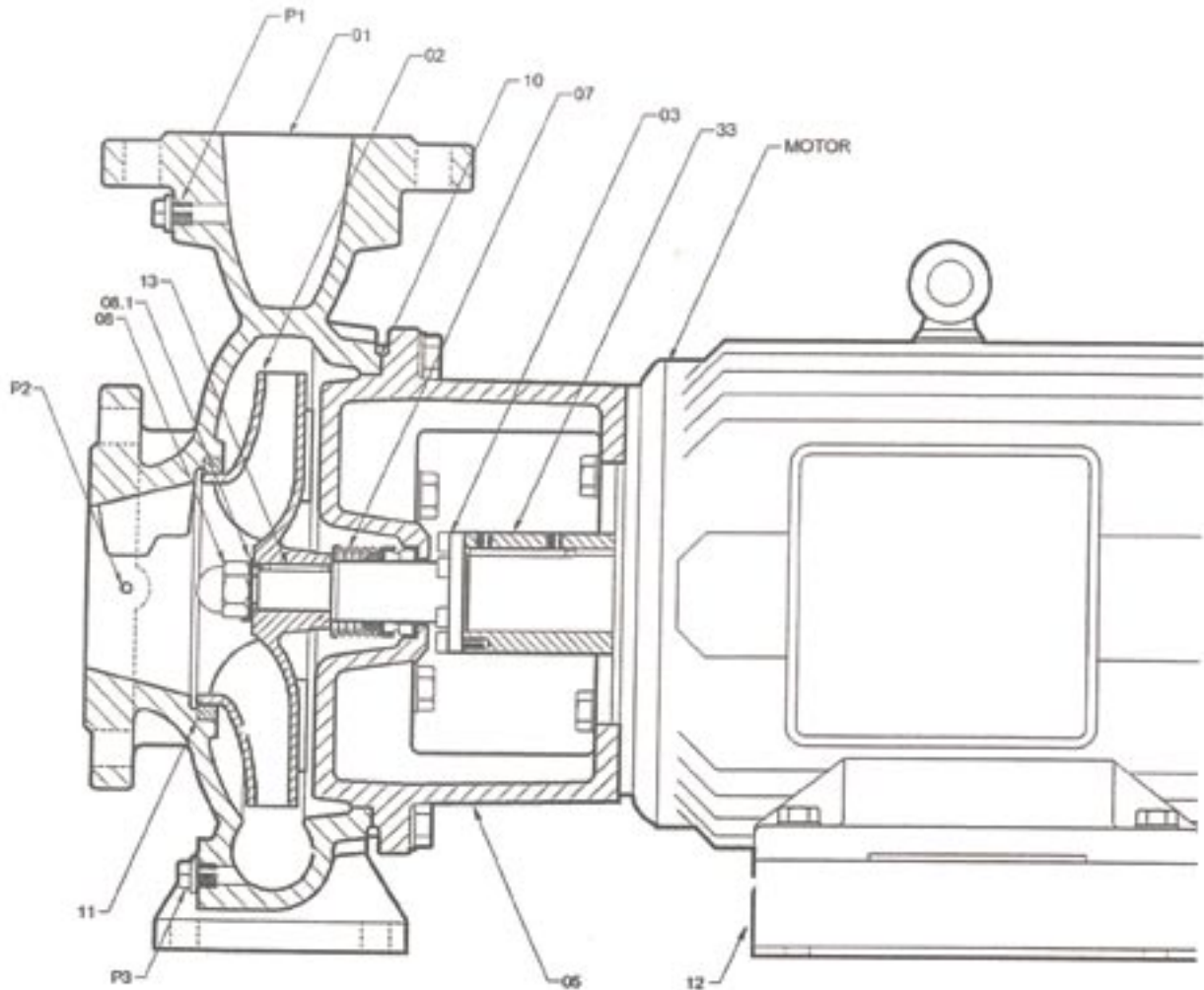
Casing	Cast Iron
Impeller	Cast Iron or Bronze
Stub-shaft	Stainless Steel
Casing W/Ring	Cast Iron or Bronze

Shaft Sealing

Single mechanical seals are provided as standard. Special purpose seals may be fitted on request subject to design restrictions.

PAZ CLOSE COUPLED CENTRIFUGAL PUMPS

Typical cross section

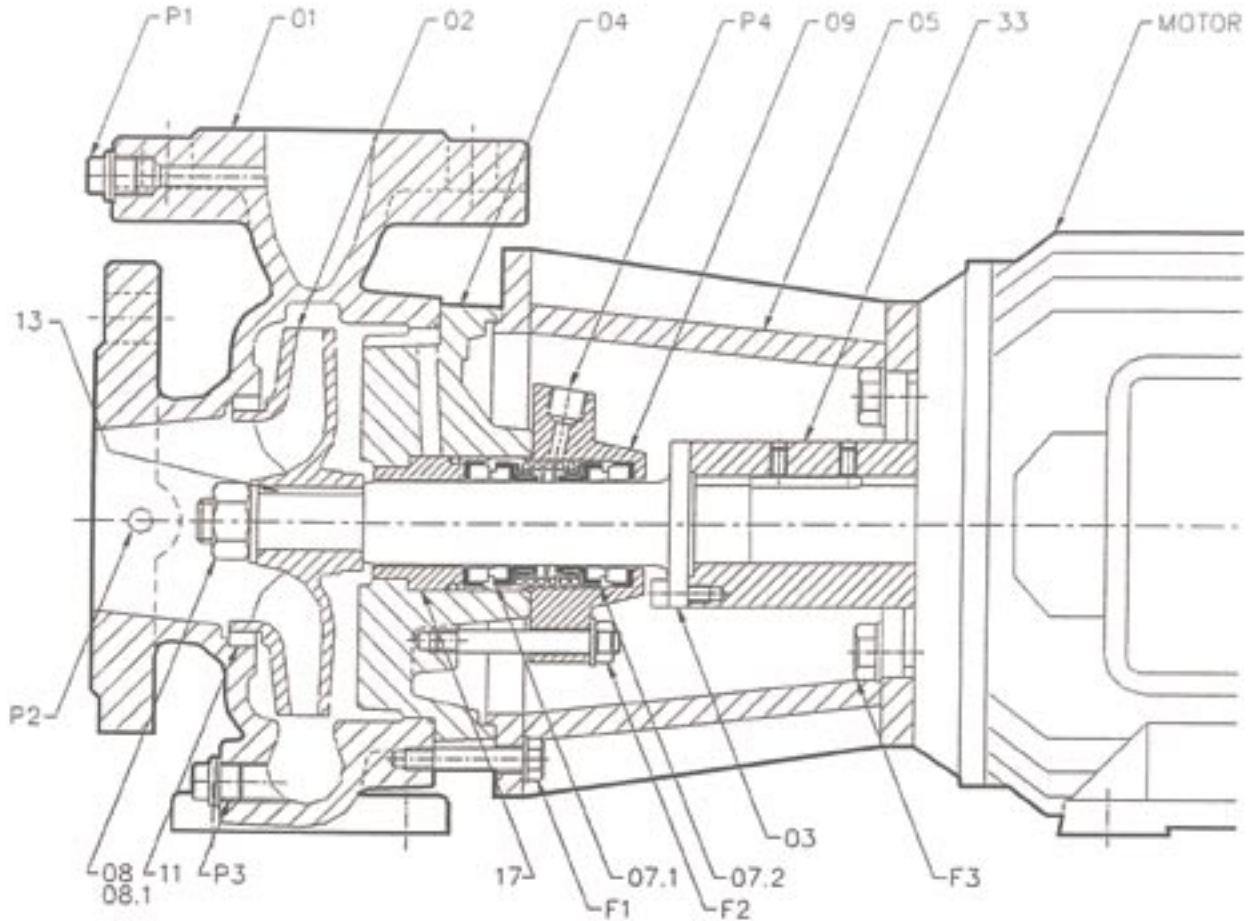


Item ref	Part	Code C	Code B
01	Casing	Cast iron	Cast iron
02	Impeller	Cast iron	LG4 Bronze
03	Stubshaft	Stainless steel	Stainless steel
05	Adaptor	Cast iron	Cast iron
07	Mechanical seal	Carbon/ceramic	Carbon/ceramic
08	Impeller nut	Steel	Bronze
08.1	Impeller washer	Steel	Bronze
10	Casing gasket	Gasket paper	Gasket paper
11	Casing wear ring	Cast iron	Cast iron
12	Support foot	Mild steel	Mild steel
13	Impeller key	Key steel	Key steel
33	Motor sleeve	Steel	Steel
P1	Vent/gauge plug	Steel	Steel
P2	Suction gauge plug	Steel	Steel
P3	Drain plug	Steel	Steel

For power 5.5kw and below

PAZ CLOSE COUPLED CENTRIFUGAL PUMPS

Typical cross section

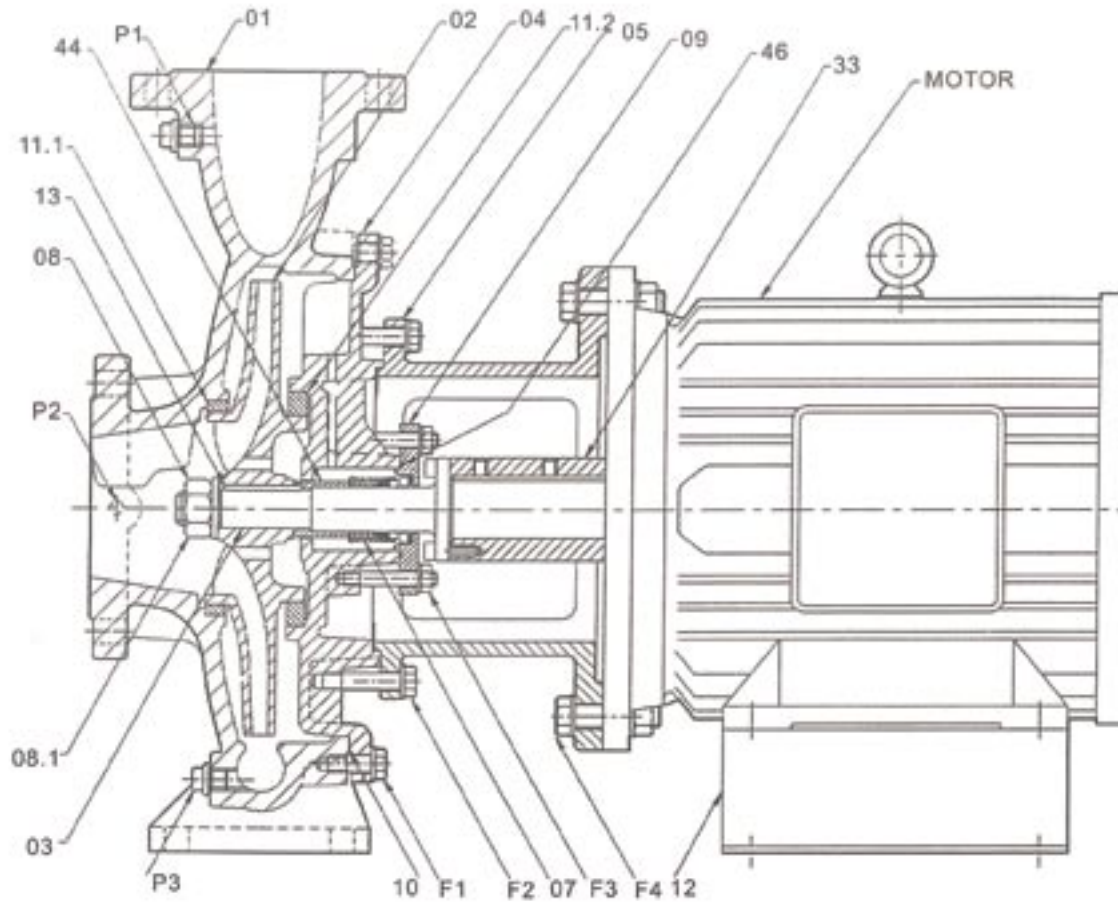


Em ref	Part	Code C	Code B
01	Casing	Cast iron	Cast iron
02	Impeller	Cast iron	LG4 Bronze
03	Stubshaft	Stainless steel	Stainless steel
04	Backcover	Cast iron	Cast iron
05	Adaptor	Mild steel	Mild steel
07.1	Primary mechanical seal	SiC/SiC/Viton	SiC/SiOV iton
07.2	Secondary mechanical seal	Carbon/ceramic	Carbon/ceramic
08	Impeller nut	Steel	Bronze
08.1	Impeller washer	Steel	Bronze
09	Glandplate	Stainless steel	Stainless steel
10	Casing gasket	Gasket paper	Gasket paper
11	Casing wear ring	Cast iron	Cast iron
13	Impeller key	Key steel	Key steel
17	Primary seal carrier	Stainless steel	Stainless steel
33	Motor sleeve	Steel	Steel
P1	Vent/gauge plug	Steel	Steel
P2	Suction gauge plug	Steel	Steel
P3	Drain plug	Steel	Steel
P4	Seal flush connections		

For power 7.5kw to 15kw

PAZ CLOSE COUPLED CENTRIFUGAL PUMPS

Typical cross section

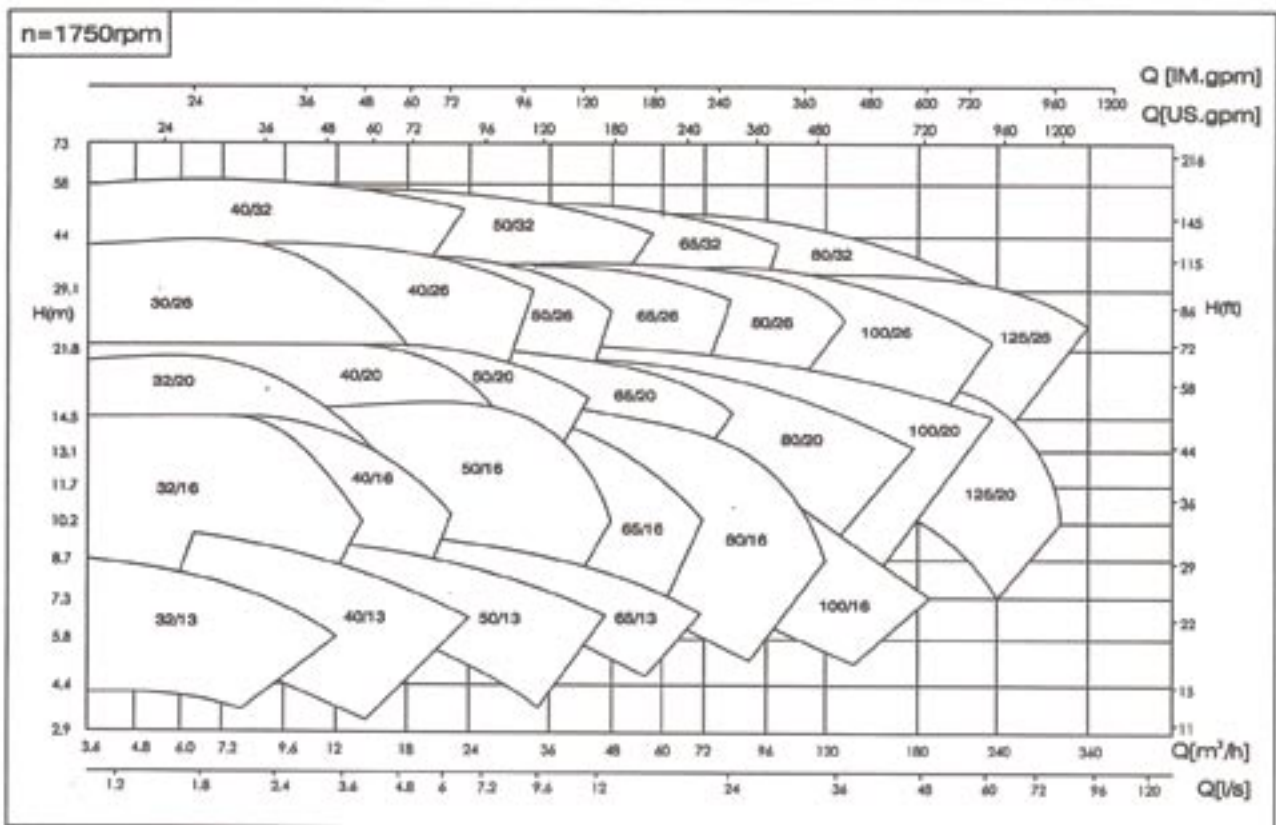
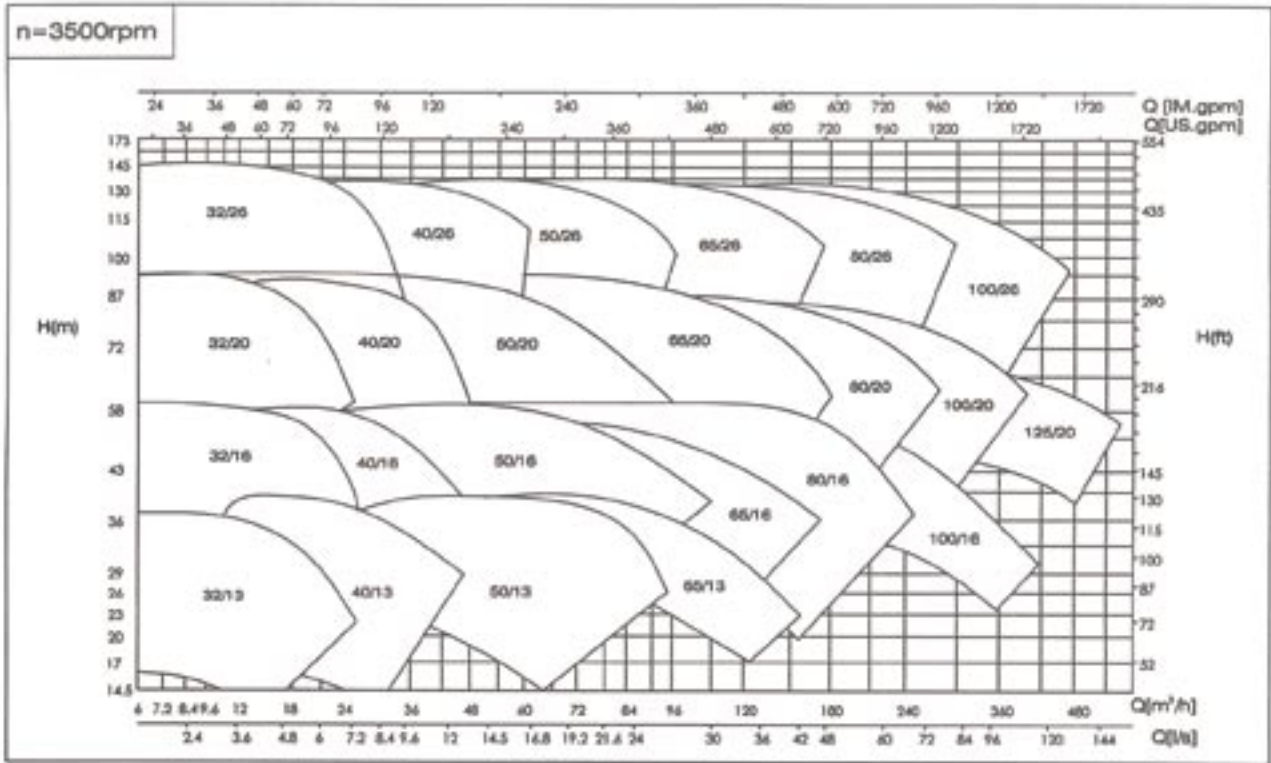


Item ref	Part	Code C	Code B
01	Casing	Cast iron	Cast iron
02	Impeller	Cast iron	LG4 Bronze
03	Stubshaft	Stainless steel	Stainless steel
04	Backcover	Cast iron	Cast iron
05	Adaptor	Cast iron	Cast iron
07	Mechanical seal	Carbon/ceramic	Carbon/ceramic
08	Impeller nut	Steel	Bronze
08.1	Impeller washer	Steel	Bronze
09	Glandplate	Cast iron	Cast iron
10	Casing gasket	Gasket paper	Gasket paper
11.1	Casing wear ring	Cast iron	Cast iron
11.2	Backcover wear ring	Cast iron	Cast iron
12	Support foot	Mild steel	Mild steel
13	Impeller key	Key steel	Key steel
33	Motor sleeve	Steel	Steel
44	Spacer sleeve	Stainless steel	Stainless steel
46	Glandplate O ring	Nitrile	Nitrile
P1	Vent/gauge plug	Steel	Steel
P2	Suction gauge plug	Steel	Steel
P3	Drain plug	Steel	Steel
F1	Casing bolts	Steel	Steel
F2	Backcover bolts	Steel	Steel
F3	Gland studs	Steel	Steel
F4	Motor flange bolts	Steel	Steel

For power 18.5kw and above

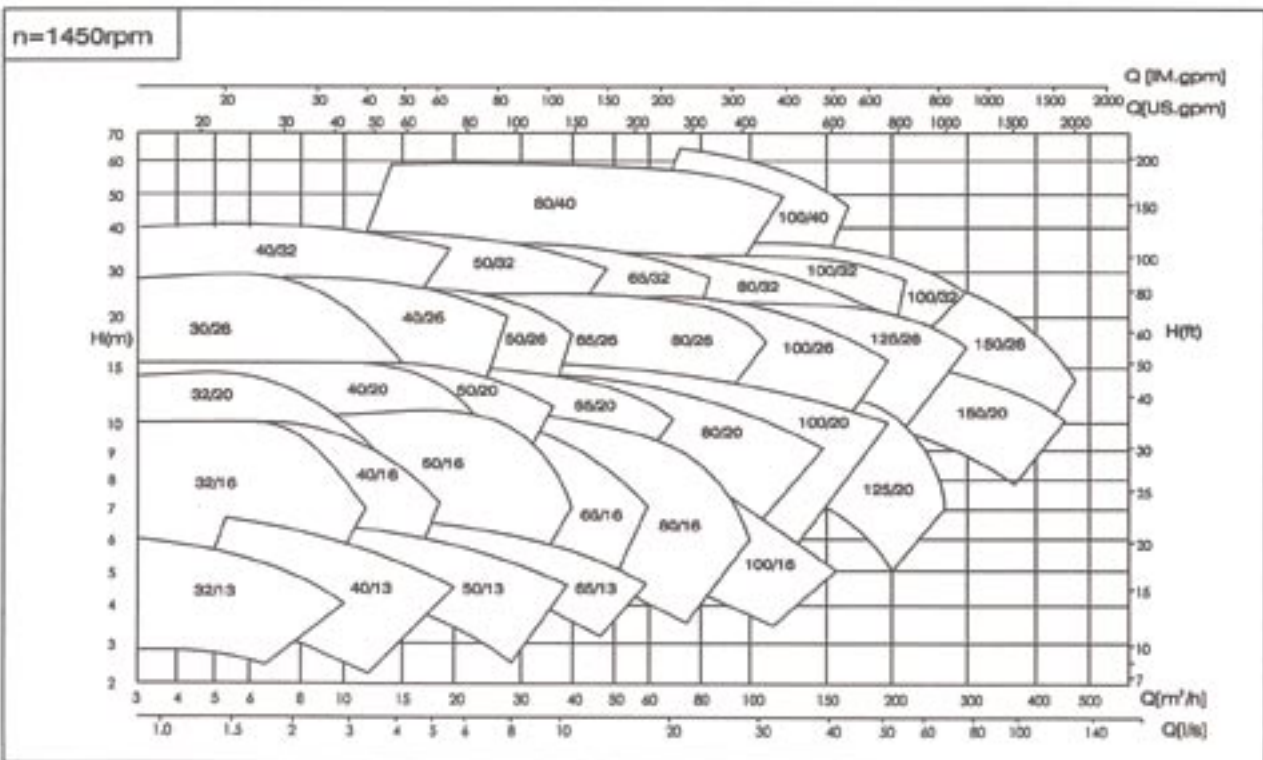
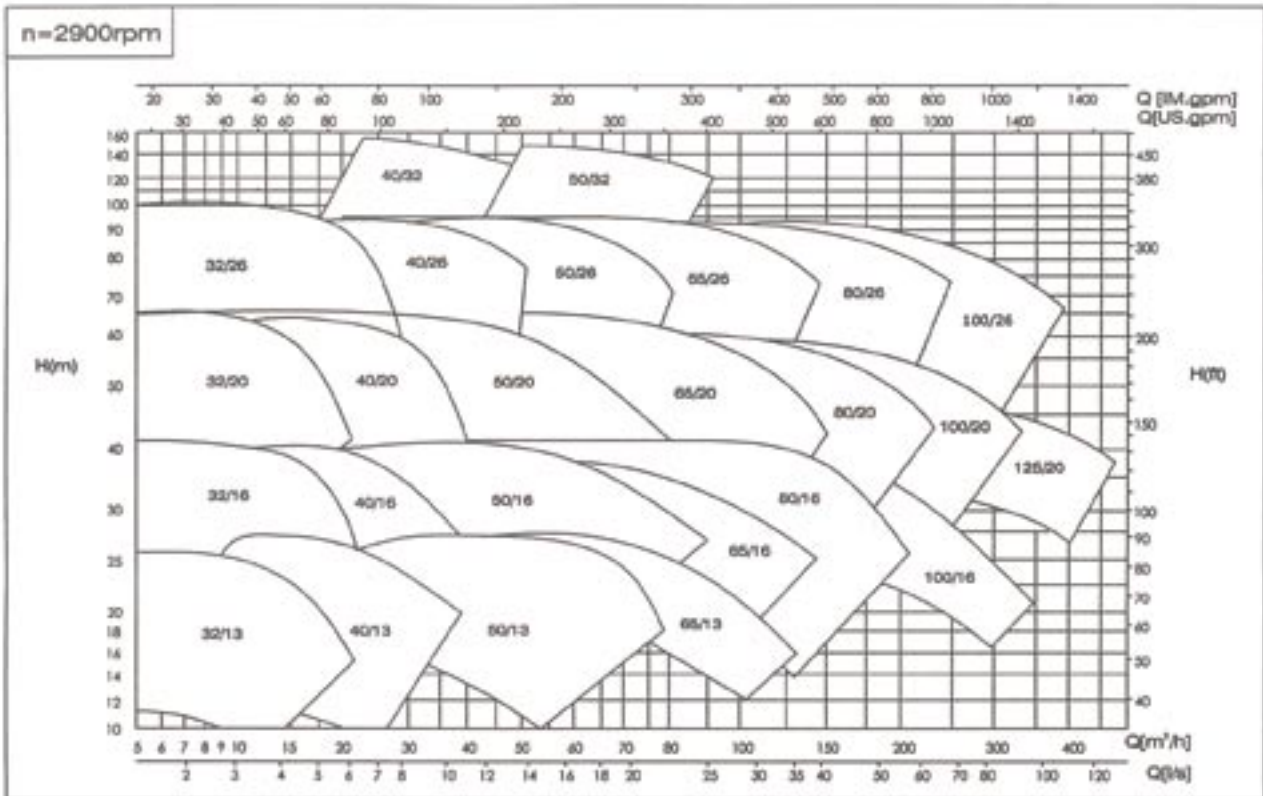
PAZ CLOSE COUPLED CENTRIFUGAL PUMPS

Selection Charts

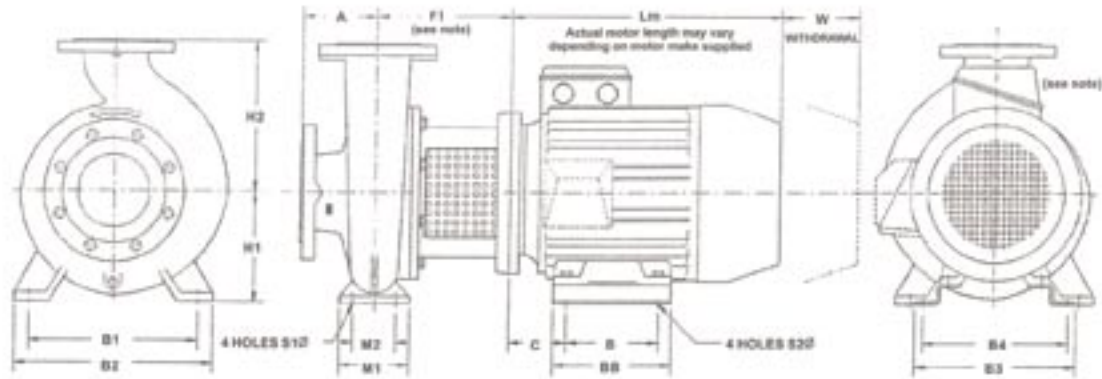


PAZ CLOSE COUPLED CENTRIFUGAL PUMPS

Selection Charts



PAZ CLOSE COUPLED CENTRIFUGAL PUMPS



Pump Dimensions

PUMP MODEL	MOTOR FRAME	FLANGES IN OUT	PUMP DIMENSIONS										MOTOR DIMENSIONS						KG	
			A	F1	H1	H2	B1	B2	M1	M2	W	S1	B3	B4	Lm	B	BB	C		S2
32-13 0.75/ 2	D80	50 32	80	170	112	140	140	190	100	70	100	14	207	189	345	100	125	50	10	32
32-13 1.1/2	D80	50 32	80	170	112	140	140	190	100	70	100	14	207	189	345	100	125	50	10	32
32-13 1.5/2	D90S	50 32	80	170	112	140	140	190	100	70	100	14	222	204	260	100	130	56	10	35
32-13 2.2/2	D90L	50 32	80	170	112	140	140	190	100	70	100	14	222	204	285	125	155	56	10	36
32-16 3.0/2	D100L	50 32	80	169	132	160	190	240	100	70	100	14	264	244	320	140	170	63	12	50
32-16 4.0/2	D112M	50 32	80	169	132	160	190	240	100	70	100	14	294	274	335	140	176	70	12	54
32-16 5.5/2	D132S	50 32	80	169	132	160	190	240	100	70	100	14	294	274	385	140	184	89	12	78
32-20 5.5/2	D132S	50 32	80	169	160	180	190	240	100	70	100	14	320	300	385	140	184	89	12	81
32-20 7.5/2	D132S	50 32	80	169	160	180	190	240	100	70	100	14	320	300	385	140	184	89	12	81
32-20 11.0/2	D160M	50 32	80	169	160	180	190	240	100	70	100	14	320	300	510	210	252	108	12	136
32-26 11.0/2	D160M	50 32	100	212	180	225	250	320	125	95	120	14	384	354	510	210	252	108	14	151
32-26 15.0/ 2	D160M	50 32	100	212	180	225	250	320	125	95	120	14	384	354	510	210	252	108	14	160
32-26 18.5/ 2	D160L	50 32	100	212	180	225	250	320	125	95	120	14	384	354	555	254	296	108	14	170
40-13 1.5/2	D90S	65 40	80	170	112	140	160	210	100	70	100	14	222	204	260	100	130	56	10	38
40-13 2.2/2	D90L	65 40	80	170	112	140	160	210	100	70	100	14	222	204	285	125	155	56	10	48
40-13 3.0/2	D100L	65 40	80	150	112	140	160	210	100	70	100	14	264	244	320	140	170	63	12	58
40-13 4.0/2	D112M	65 40	80	150	112	140	160	210	100	70	100	14	294	284	335	140	176	70	12	62
40-16 4.0/2	D112M	65 40	80	169	132	160	190	240	100	70	100	14	294	284	335	140	176	70	12	58
40-16 5.5/2	D132S	65 40	80	169	132	160	190	240	100	70	100	14	260	216	385	140	184	89	12	74
40-16 7.5/2	D132S2	65 40	80	169	132	160	190	240	100	70	100	14	320	300	385	140	184	89	12	79
40-20 7.5/2	D132S2	65 40	100	165	160	180	212	265	100	70	100	14	320	300	385	140	184	89	12	84
40-20 11.0/2	D160M	65 40	100	205	160	180	212	265	100	70	100	14	384	354	510	210	252	108	14	130
40-26 15.0/ 2	D160M	65 40	100	212	180	225	250	320	125	95	120	14	384	354	510	210	252	108	14	151
40-26 18.5/ 2	D160L	65 40	100	212	180	225	250	320	125	95	120	14	384	354	555	254	296	108	14	166
40-26 22.0/ 2	D180M	65 40	100	212	180	225	250	320	125	95	120	14	407	385	560	241	292	121	14	179
40-32 18.5/ 2	D160L	65 40	125	250	200	250	280	345	125	95	140	14	384	354	555	254	296	108	14	198
40-32 22.0/ 2	D180M	65 40	125	250	200	250	280	345	125	95	140	14	407	383	560	241	292	121	14	211
50-13 3.0/2	D100L	65 50	100	150	132	160	190	240	100	70	100	14	264	244	320	140	170	63	12	52
50-13 4.0/2	D112M	65 50	100	150	132	160	190	240	100	70	100	14	294	274	335	140	176	70	12	56
50-13 5.5/2	D132S	65 50	100	170	132	160	190	240	100	70	100	14	320	300	385	140	184	89	12	72
50-13 7.5/2	D132S	65 50	100	170	132	160	190	240	100	70	100	14	320	200	385	140	184	89	12	72
50-16 7.5/2	D132S	65 50	100	169	160	180	212	265	100	70	100	14	320	300	385	140	184	89	12	78
50-16 11.0/2	D160M	65 50	100	209	160	180	212	265	100	70	100	14	384	354	510	210	252	108	14	124
50-16 15/2	D160M	65 50	100	209	160	180	212	265	100	70	100	14	384	354	510	210	252	108	14	150

PAZ CLOSE COUPLED CENTRIFUGAL PUMPS

Pump Dimensions

PUMP MODEL	MOTOR FRAME	FLANGES IN OUT	PUMP DIMENSIONS										MOTOR DIMENSIONS						KG	
			A	F1	H1	H2	B1	B2	M1	M2	W	S1	B3	B4	Lm	B	BB	C		S2
50-20 15.0/2	D160M	65 50	100	211	160	200	212	265	100	70	100	14	384	354	510	210	252	108	14	132
50-20 18.5/2	D160L	65 50	100	211	160	200	212	265	100	70	100	14	384	354	555	254	296	108	14	148
50-26 22.0/2	D180M	65 50	100	212	180	225	253	320	125	95	120	14	407	383	560	241	292	121	14	179
50-32 30.0/2	D200L	65 50	125	250	225	280	280	345	125	95	140	14	529	479	660	305	365	133	18	328
50-32 37.0/2	D200L	65 50	125	250	225	280	280	345	125	95	140	14	529	479	660	286	344	133	18	328
50-32 45.0/2	D225M	65 50	125	250	225	280	280	345	125	95	140	14	529	479	705	311	369	149	18	371
65-13 5.5/2	D132S	80 65	100	170	160	180	212	280	125	95	100	14	320	300	385	140	184	89	12	80
65-13 7.5/2	D132S	80 65	100	170	160	180	212	280	125	95	100	14	320	300	385	140	184	89	12	80
65-16 11.0/2	D160M	80 65	100	209	160	200	212	280	125	95	100	14	384	354	510	210	252	108	14	142
65-16 15.0/2	D160M	80 65	100	209	160	200	212	280	125	95	100	14	384	354	510	210	252	108	14	142
65-16 18.5/2	D160L	80 65	100	209	160	200	212	280	125	95	100	14	384	354	555	254	296	108	14	142
65-16 22.0/2	D180M	80 65	100	209	180	200	212	280	125	95	100	14	407	383	560	241	292	121	14	155
65-20 18.5/2	D160L	80 65	100	209	180	225	250	320	125	95	100	14	384	354	555	254	296	108	14	151
65-20 22.0/2	D180M	80 65	100	209	180	225	250	320	125	95	100	14	407	383	560	241	292	121	14	164
65-20 30.0/2	D200L	80 65	100	209	180	225	250	320	125	95	100	14	407	383	660	305	365	133	18	255
65-26 30.0/2	D200L	80 65	100	210	200	250	280	360	160	120	100	18	407	383	660	305	365	133	18	285
65-26 37.0/2	D200L	80 65	100	210	200	250	280	360	160	120	100	18	407	383	660	305	365	133	18	285
65-26 45.0/2	D225M	80 65	100	210	225	250	280	360	160	120	100	18	407	383	705	311	369	149	18	310
80-16 11.0/2	D160M	100 80	125	207	180	225	250	320	125	95	100	14	384	354	510	210	252	108	14	141
80-16 15.0/2	D160M	100 80	125	207	180	225	250	320	125	95	100	14	384	354	510	210	252	108	14	141
80-16 18.5/2	D160L	100 80	125	207	180	225	250	320	125	95	100	14	384	354	555	254	296	108	14	156
80-16 22.0/2	D180M	100 80	125	167	180	225	250	320	125	95	100	14	407	383	560	241	292	121	14	169
80-16 30.0/2	D200L	100 80	125	167	180	225	250	320	125	95	100	14	407	383	660	305	365	133	18	245
80-20 30.0/2	D200L	100 80	125	226	200	250	280	345	125	95	120	14	407	383	660	305	365	133	18	287
80-20 37.0/2	D200L	100 80	125	226	200	250	280	345	125	95	120	14	407	383	660	305	365	133	18	287
80-20 45.0/2	D225M	100 80	125	226	225	250	280	345	125	95	120	14	407	383	705	311	369	149	18	312
100-16 18.5/2	D160L	125 100	125	255	200	250	280	360	160	120	140	18	384	354	555	254	296	108	14	176
100-16 22.0/2	D180M	125 100	125	255	200	250	280	360	160	120	140	18	407	383	560	241	292	121	14	189
100-16 30.0/2	D200L	125 100	125	255	200	250	280	360	160	120	140	18	407	383	660	305	365	133	18	261
100-20 30.0/2	D200L	125 100	125	226	200	280	280	360	160	120	140	18	407	383	660	305	365	133	18	291
100-20 37.0/2	D200L	125 100	125	226	200	280	280	360	160	120	140	18	407	383	660	305	365	133	18	291
100-20 45.0/2	D225M	125 100	125	226	225	280	280	360	160	120	140	18	407	383	705	311	369	149	18	316
32-13 0.55/4	D80	50 32	80	170	112	140	140	190	100	70	100	14	207	189	245	100	125	50	10	32
32-16 0.55/4	D80	50 32	80	169	132	160	190	240	100	70	100	14	207	189	245	100	125	50	10	36
32-20 0.75/4	D80	50 32	80	169	160	180	190	240	100	70	100	14	207	189	245	100	125	50	10	47
32-20 1.1/4	D90S	50 32	80	169	160	180	190	240	100	70	100	14	222	204	260	100	130	56	10	50
32-26 1.5/4	D90L	50 32	100	172	180	225	250	320	125	95	120	14	222	204	285	125	155	56	10	75
32-26 2.2/4	D100L	50 32	100	172	180	225	250	320	125	95	120	14	264	244	320	140	170	63	12	85
40-13 0.55/4	D80	65 40	80	170	112	140	160	210	100	70	100	14	207	189	245	100	125	50	10	34
40-16 0.75/4	D80	65 40	80	169	132	160	190	240	100	70	100	14	207	189	245	100	125	50	10	40
40-20 1.1/4	D90S	65 40	100	165	160	180	212	265	100	70	100	14	222	204	260	100	130	56	10	51
40-20 1.5/4	D90L	65 40	100	165	160	180	212	265	100	70	100	14	222	204	285	125	155	56	10	52
40-26 2.2/4	D100L	65 40	100	172	180	225	250	320	125	95	120	14	264	244	320	140	170	63	12	85
40-26 3.0/4	D100L	65 40	100	172	180	225	250	320	125	95	120	14	264	244	320	140	170	63	12	85
40-32 4.0/4	D112M	65 40	125	210	200	250	280	345	125	95	140	14	294	274	335	140	176	70	12	117

PAZ CLOSE COUPLED CENTRIFUGAL PUMPS

Pump Dimensions

PUMP MODEL	MOTOR FRAME	FLANGES IN OUT	PUMP DIMENSIONS										MOTOR DIMENSIONS						KG	
			A	F1	H1	H2	B1	B2	M1	M2	W	S1	B3	B4	Lm	B	BB	C		S2
50-13 0.55/4	D80	65 50	100	170	132	160	190	240	100	70	100	14	207	189	245	100	125	50	10	42
50-13 0.75/4	D80	65 50	100	170	132	160	190	240	100	70	100	14	207	189	245	100	125	50	10	42
50-16 1.1/4	D90S	65 50	100	169	160	180	212	265	100	70	100	14	222	204	260	100	130	56	10	47
50-16 1.5/4	D90L	65 50	100	169	160	180	212	265	100	70	100	14	222	204	285	125	155	56	10	48
50-20 1.5/4	D90L	65 50	100	171	160	200	212	265	100	70	100	14	222	204	285	125	155	56	10	56
50-20 2.2/4	D100L	65 50	100	171	160	200	212	265	100	70	100	14	264	244	320	140	170	63	12	66
50-26 3.0/4	D100L	65 50	100	172	180	225	250	320	125	95	120	14	264	244	320	140	170	63	12	85
50-26 4.0/4	D112M	65 50	100	172	180	225	250	320	125	95	120	14	294	274	335	140	170	70	12	89
50-32 5.5/4	D132S	65 50	125	250	225	280	280	345	125	95	140	14	320	300	385	140	184	89	12	141
50-32 7.5/4	D132M	65 50	125	250	225	280	280	345	125	95	140	14	320	300	425	178	222	89	12	145
55-13 0.75/4	D80	80 65	100	170	160	180	212	280	125	95	100	14	207	189	245	100	125	50	10	46
55-13 1.1/4	D90S	80 65	100	170	160	180	212	280	125	95	100	14	222	204	260	100	130	56	10	49
65-13 1.5/4	D90L	80 65	100	170	160	180	212	280	125	95	100	14	222	204	285	125	155	56	10	50
65-16 1.5/4	D90L	80 65	100	169	160	200	212	280	125	95	100	14	222	204	285	125	155	56	12	51
65-16 2.2/4	D100L	80 65	100	169	160	200	212	280	125	95	100	14	264	244	320	140	170	63	12	61
65-20 3.0/4	D100L	80 65	100	169	180	225	250	320	125	95	100	14	264	244	320	140	170	63	12	70
65-20 4.0/4	D112M	80 65	100	169	180	225	250	320	125	95	100	14	294	274	335	140	176	70	12	74
65-26 5.5/4	D132S	80 65	100	170	200	250	280	360	160	120	100	18	320	300	385	140	184	89	12	116
65-26 7.5/4	D132M	80 65	100	170	200	250	280	360	160	120	100	18	320	300	425	178	222	89	12	120
65-32 7.5/4	D132M	80 65	125	235	225	280	315	400	160	120	100	18	320	300	425	178	222	89	12	154
65-32 11.0/4	D160M	80 65	125	265	225	280	315	400	160	120	100	18	384	354	510	210	252	108	14	196
80-16 1.5/4	D90L	100 80	125	167	180	225	250	320	125	95	100	14	222	204	285	125	155	56	10	65
80-16 2.2/4	D100L	100 80	125	167	180	225	250	320	125	95	100	14	264	244	320	140	170	63	12	75
80-16 3.0/4	D100L	100 80	125	167	180	225	250	320	125	95	100	14	264	244	320	140	170	63	12	75
80-20 4.0/4	D112M	100 80	125	186	180	250	280	345	125	95	120	14	294	274	335	140	176	70	12	102
80-20 5.5/4	D132S	100 80	125	186	180	250	280	345	125	95	120	14	320	300	385	140	184	89	12	118
80-20 7.5/4	D132M	100 80	125	186	180	250	280	345	125	95	120	14	320	300	425	178	222	89	12	122
80-26 7.5/4	D132M	100 80	125	170	200	280	315	400	160	120	120	18	320	300	425	178	222	89	12	131
80-26 11.0/4	D160M	100 80	125	210	200	280	315	400	160	120	120	18	384	354	510	210	252	108	14	173
80-32 11.0/4	D160M	100 80	125	250	250	315	315	400	160	120	120	18	384	354	510	210	252	108	14	205
80-32 15.0/4	D160L	100 80	125	250	250	315	315	400	160	120	120	18	384	354	555	254	296	108	14	220
80-40 18.5/4	D180M	100 80	125	255	280	355	340	440	160	120	120	18	407	383	560	241	292	121	14	279
80-40 22.0/4	D180L	100 80	125	255	280	355	340	440	160	120	120	18	437	394	600	279	329	121	14	333
80-40 30.0/4	D200L	100 80	125	255	280	355	340	440	160	120	120	18	529	479	660	305	365	133	14	394
100-16 2.2/4	D100L	125 100	125	225	200	250	280	360	160	120	140	18	264	244	320	140	170	63	12	75
100-16 3.0/4	D112M	125 100	125	225	200	250	280	360	160	120	140	18	294	274	335	140	176	63	12	75
100-20 4.0/4	D112M	125 100	125	186	200	280	280	360	160	120	120	18	294	274	335	140	176	70	12	106
100-20 5.5/4	D132S	125 100	125	186	200	280	280	360	160	120	120	18	320	300	385	140	184	89	12	122
100-20 7.5/4	D132M	125 100	125	186	200	280	280	360	160	120	120	18	320	300	425	178	222	89	12	126

PAZ CLOSE COUPLED CENTRIFUGAL PUMPS

Pump Dimensions

PUMP MODEL	MOTOR FRAME	FLANGES IN OUT	PUMP DIMENSIONS											MOTOR DIMENSIONS						KG
			A	F1	H1	H2	B1	B2	M1	M2	W	S1	B3	B4	Lm	B	BB	C	S2	
100-26 15/4	D160L	125 100	125	250	225	280	315	400	160	120	120	18	384	354	555	254	296	108	12	220
100-32 18.5/4	D180M	125 100	125	255	250	315	315	400	160	120	120	18	407	383	560	241	292	121	14	350
125-20 11/4	D160M	150 125	140	250	250	315	315	400	160	120	100	18	384	354	510	210	252	108	14	195
125-26 22/4	D180L	150 125	140	255	250	315	315	400	160	120	120	18	437	394	600	279	329	121	14	390
125-26 18.5/4	D180M	150 125	140	255	250	355	315	400	160	120	120	18	407	383	560	241	292	121	14	360
125-32 30/4	D200L	150 125	140	255	280	355	400	500	200	150	120	23	529	479	660	305	365	133	14	410
125-32 22/4	D180L	150 125	140	255	280	355	400	500	200	150	120	23	437	394	600	279	329	121	14	409
150-20 18.5/4	D180M	200 150	160	255	280	400	450	550	200	150	120	23	407	383	560	241	292	121	14	380
150-26 30/4	D200L	200 150	160	255	280	400	450	550	200	150	120	23	529	479	660	305	365	131	14	490



Wallace Pumps Limited.
Ph (09) 622 9100,
Fax (09) 622 9119,
P O Box 12 387, 55 Maurice Rd, Penrose, Auckland