



*O2AZ Close Coupled Centrifugal Pump*





### Design

O2AZ single stage close coupled centrifugal pump with performance and key dimensions in accordance with DIN24255 standard, for horizontal installation. The back-pull-out construction allows the pump to be disassembled without disturbing the suction and discharge pipework.

### Operating data

Discharge flanges: 32 mm to 150 mm  
 Flange standard: BS 4504 PN 16  
 Optional flanges: ANSI 150 RF  
 Flowrate: Up to 550 M3/Hr  
 Total head: Up to 150 meters  
 Max working pressure: 16 bar standard  
 Maximum temperature: 100 deg C  
 Minimum temperature: -20 deg C

### Applications

- Water supply
- Cooling water
- Air conditioning
- Heating circulation
- Industrial fluids

### Electric motor

The pump is supplied complete with a standard flange or face mounted TEFC IP55 electric motor to IEC dimensions. NEMA, Eexd, Ex(N), single phase and Energy Efficient motors are readily available as options.

### Material

Casing: Cast iron, Ductile iron  
 Impeller: Cast iron, bronze  
 Stubshaft: Stainless steel  
 Casing wear ring: Cast iron, bronze

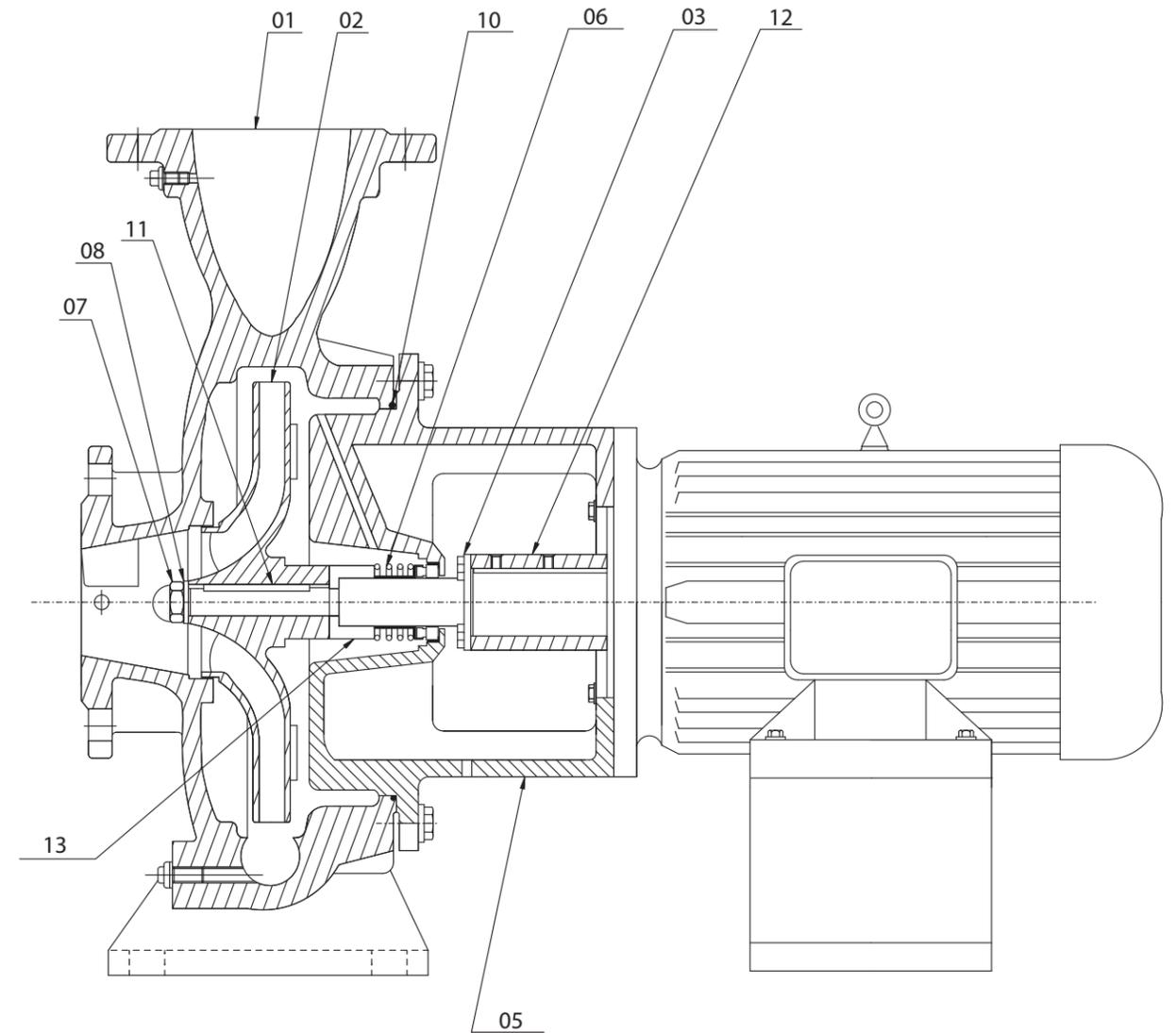
### Shaft seal

Single carbon v/ceramic mechanical seal with Nitrile elastomers as standard. Pumps can be fitted with a wide variety of single and double mechanical seals or packed gland as required.

### Pump and motor combinations

Only the common pump and motor combinations for 50 hz operation on water are included within this publication. For dimensions and performance of other pump and motor combinations.

### Typical cross section



### Suitable for:

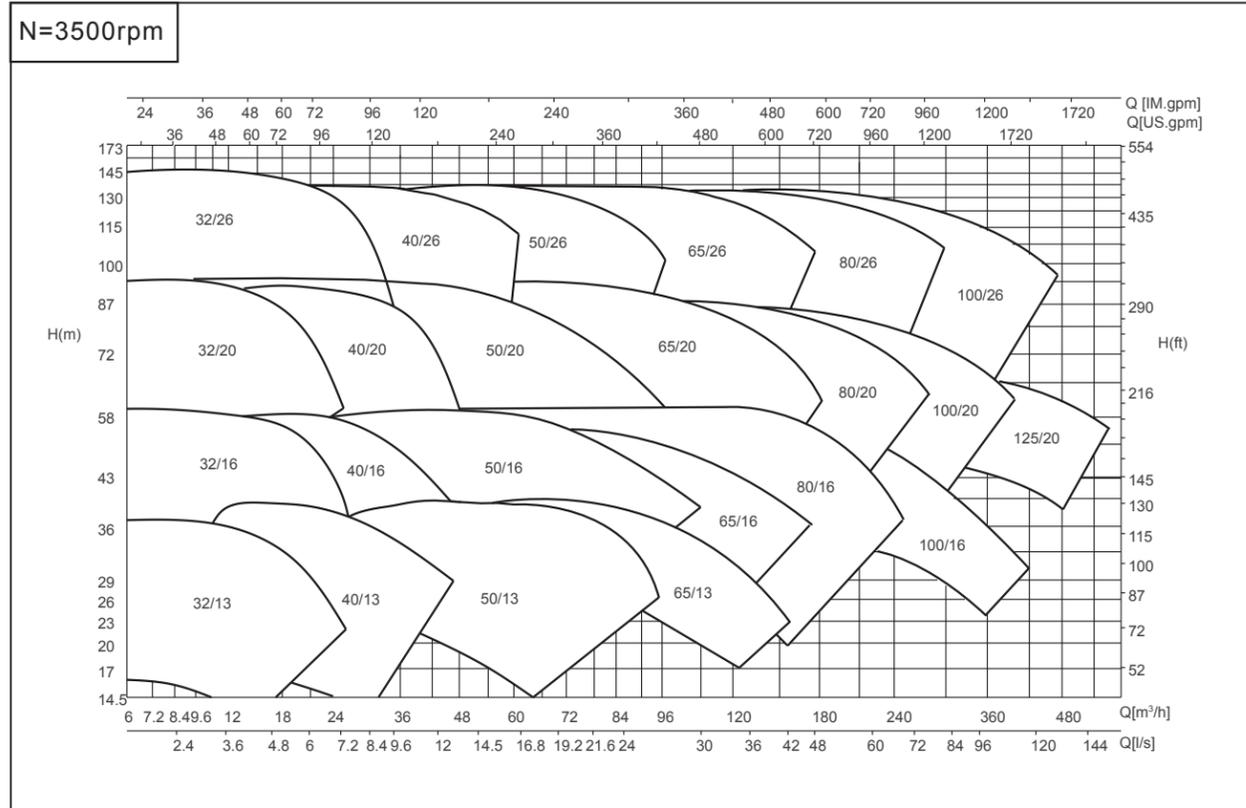
32/13 32/16 32/20 32/26  
 40/13 40/16 40/20 40/26  
 50/13 50/16 50/20 50/26  
 65/13 65/16 65/20 65/26  
 80/16 80/20 80/26  
 100/16 100/20 100/26  
 125/20 125/26

With smaller motor flanges

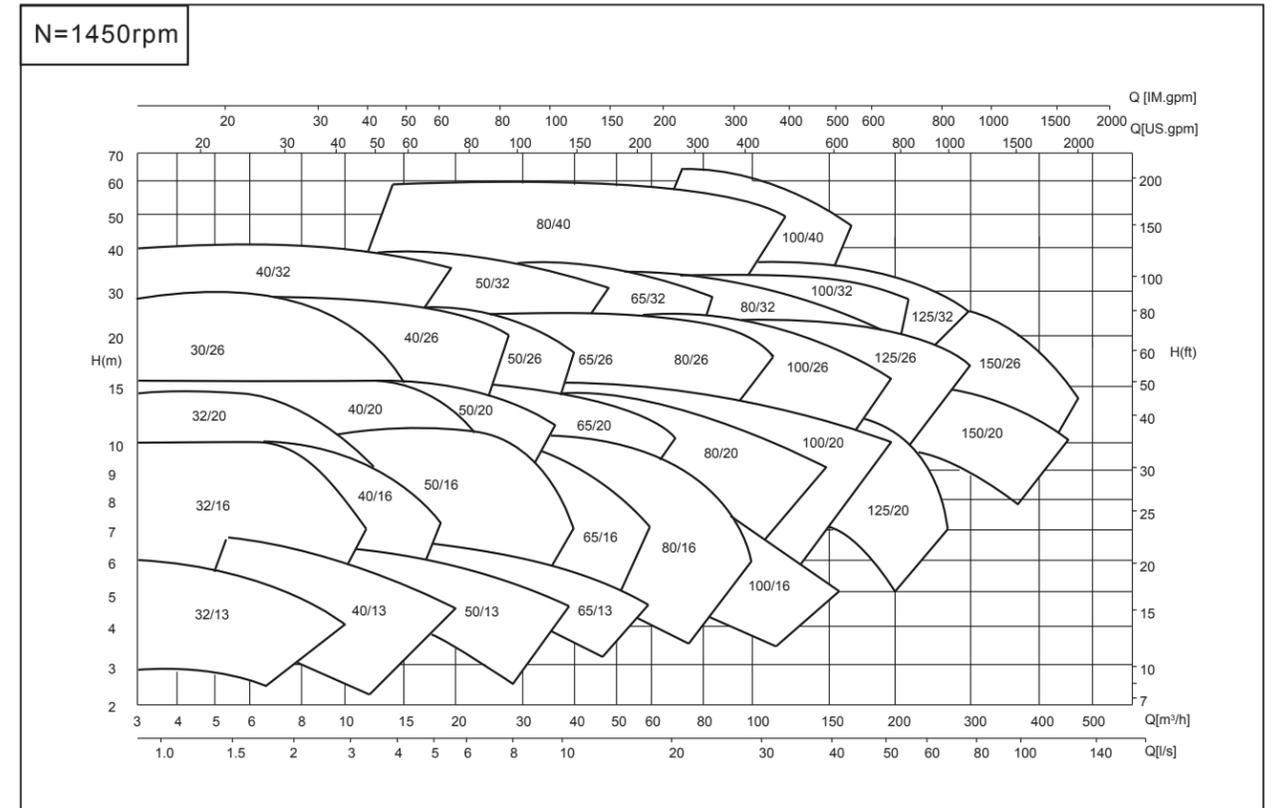
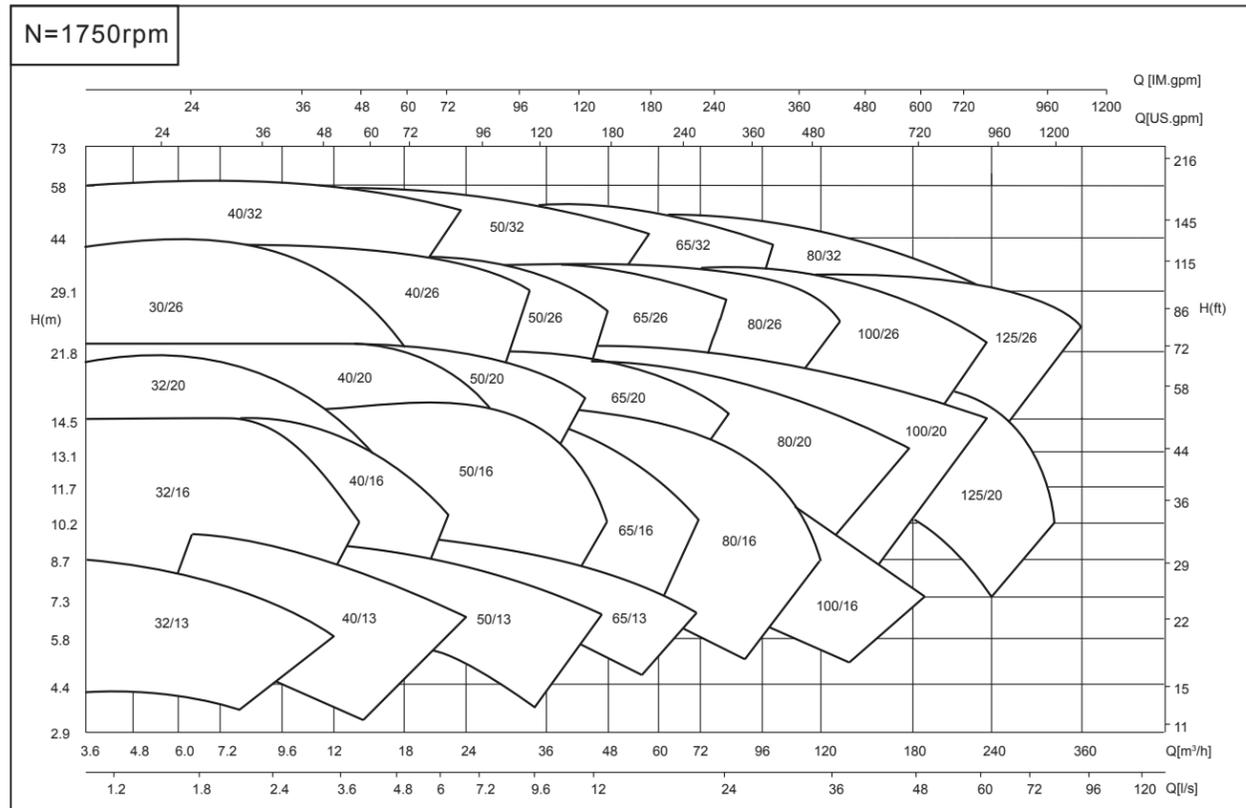
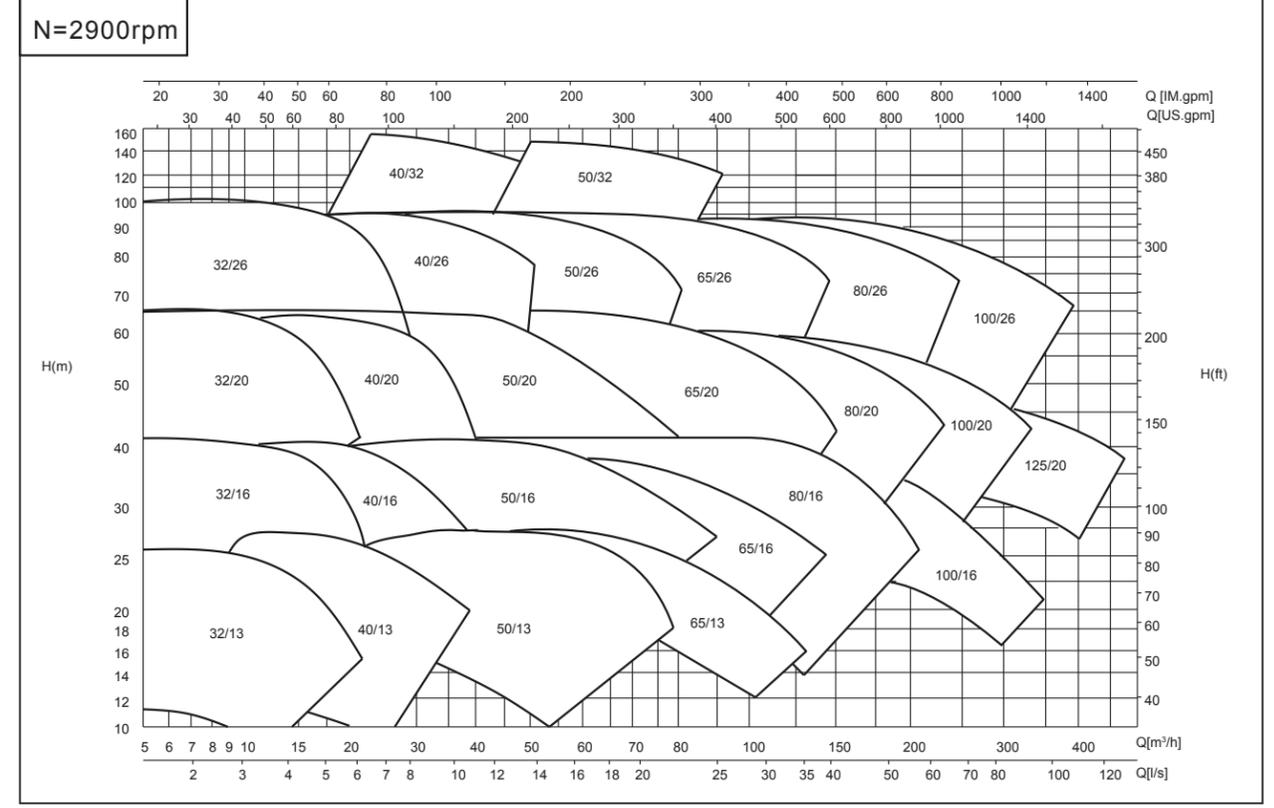
13	Spacer sleeve
12	Motor sleeve
11	Impeller key
10	O ring
08	Impeller washer
07	Impeller nut
06	Mechanical seal
05	Adaptor
03	Stubshaft
02	Impeller
01	Casing
O2AZ Pump Section 1	



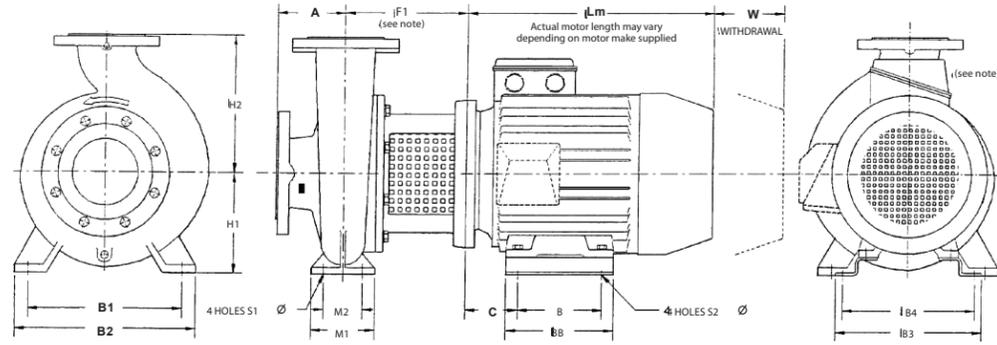
## Selection Charts



## Selection Charts



# Pump Dimensions



MODEL PUMP	MOTOR FRAME	FLANGES IN	FLANGES 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



# Pump Dimensions

MODEL PUMP	MOTOR FRAME	FLANGES IN	FLANGES 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	250	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</																			

## Pump Dimensions

MODEL PUMP	MOTOR FRAME	FLANGES		PUMP DIMENSIONS							MOTOR DIMENSIONS							KG				
		IN	OUT	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/D0L 9	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	11.0/4D160M	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	



## Pump Dimensions

MODEL PUMP	MOTOR FRAME	FLANGES		PUMP DIMENSIONS							MOTOR DIMENSIONS							KG					
		IN	OUT	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	0	35	
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		





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