Pumps & Systems

SOM

Chemical Mixed-Flow Pumps



Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

Add: No.18 Xidian, Qian mu cheng yi, Ying cheng zi Street,Ganjingzi District, Dalian, China 116036
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Introduction

The SOM series pump is single-stage and single suction overhung centrifugal pump that applied in the neutral or caustic liquid with solid which is high flow and low head.

SOM mixed-flow pumps conform to GB/T 13008 standard Performance.

—Flow	Q : up to ～8000 m³/h
—Head	H : up to ～25m
—Pressure	P : up to ～0.6MPa
—Temperature	T : -20～+155℃

Applications

—The imposed circulation in chemical industry process
—Sea water culture and desalt . —The gas project in the city.
—Water treatment system . —Paper-making industry.

Features

High efficiency low energy loss.
The pump energy consumption. is evenly within the performance limit, it could startup under closed valve condition, so the motor could not overload.
The large wetted section; not plugged easily.
The firmly structure and long running life.

The Horizontal Structure (SOM)

The pump is pull out structure, the casing has not to be dismantled from connecting pipeline during maintaining The shaft is produced precisely. and the bearing with oil, lubricating, the protective shaft is installed in packing housing, the oil level could be controlled by constant level oiler bearing housing.

Vertical Structure (SOMV)

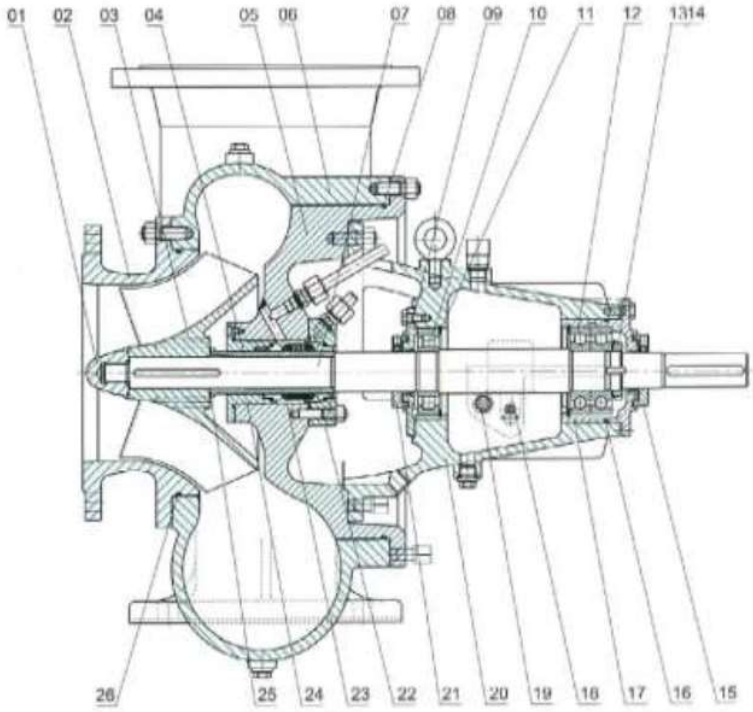
The pump structure is compact, and the covering area is small, it is conveniently for installing the motor is connected with casing by vertical housing it is not necessary to dismantle the pipeline using the grease to lubricate.
The support foot is cast on casing. which could stand the load from pipeline, and transmitting it to the base plate, so the rotor could not bend for pump loading therefore the bearing is guaranteed for long life.
In order to vent for suction pipe conveniently the complete vent device is equipped on pump.
The pump rotation direction: it is CW viewing from the driving end.
The power: adopting motor or gas engine.
In order to drain conveniently for suction pipeline, the completely drain equipment could be installed on setting.

Seal Type

The packing or single and double end mechanical seal.

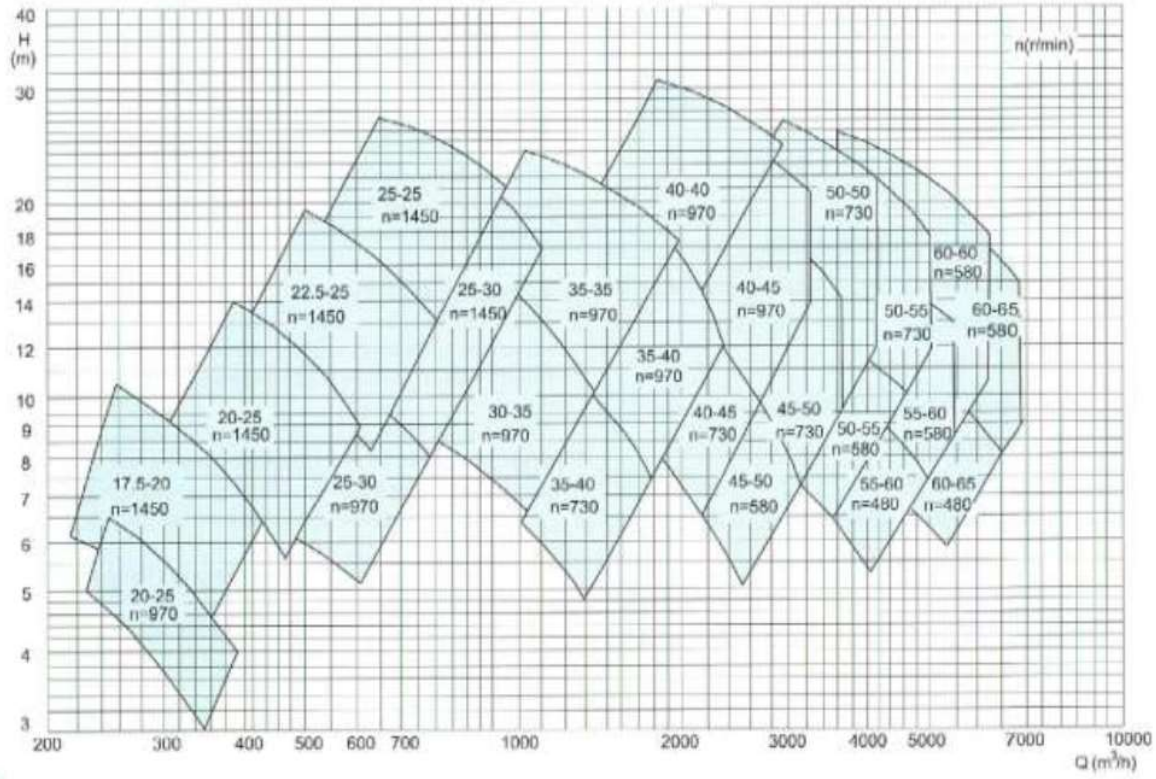
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SOM Section Drawing



01	Impeller Nut
02	Suction Casing
03	Impeller
04	Shaft Sleeve
05	Stuffing-Box Cover
06	Casing
07	Shaft
08	O-Ring
09	Outboard bearing Cover
10	Roller Bearing
11	Circlip
12	Ball Bearing
13	Circular Nut
14	Retention Gasket
15	Deflector
16	O-Ring
17	Bearing Housing
18	Constant Level Oiler
19	Sight Glass
20	Bearing Bracket
21	Deflector
22	Seal Cover
23	Mechanical Seal
24	Seal Cover
25	O-Ring
26	O-Ring

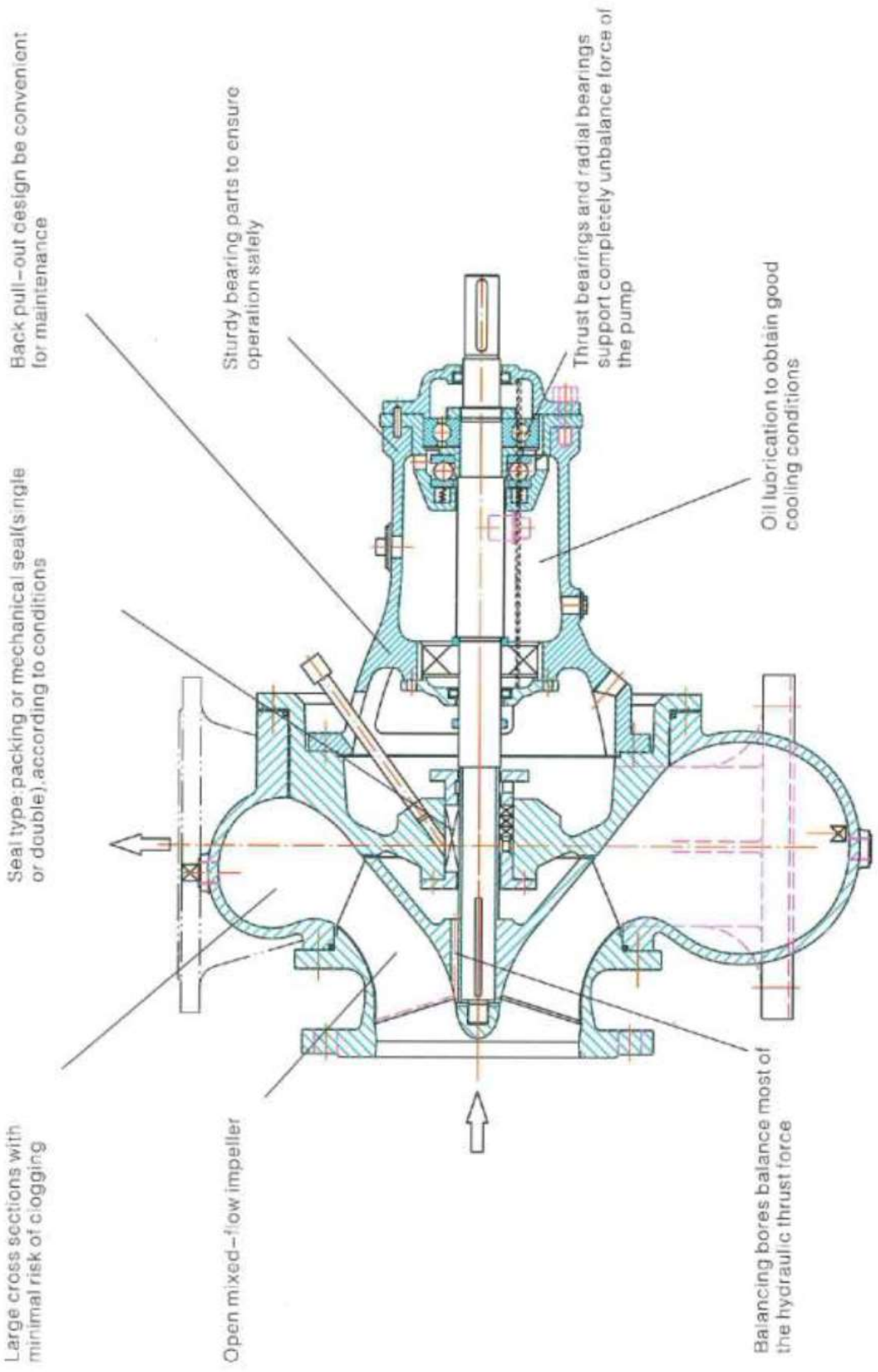
SOM Range of Performance



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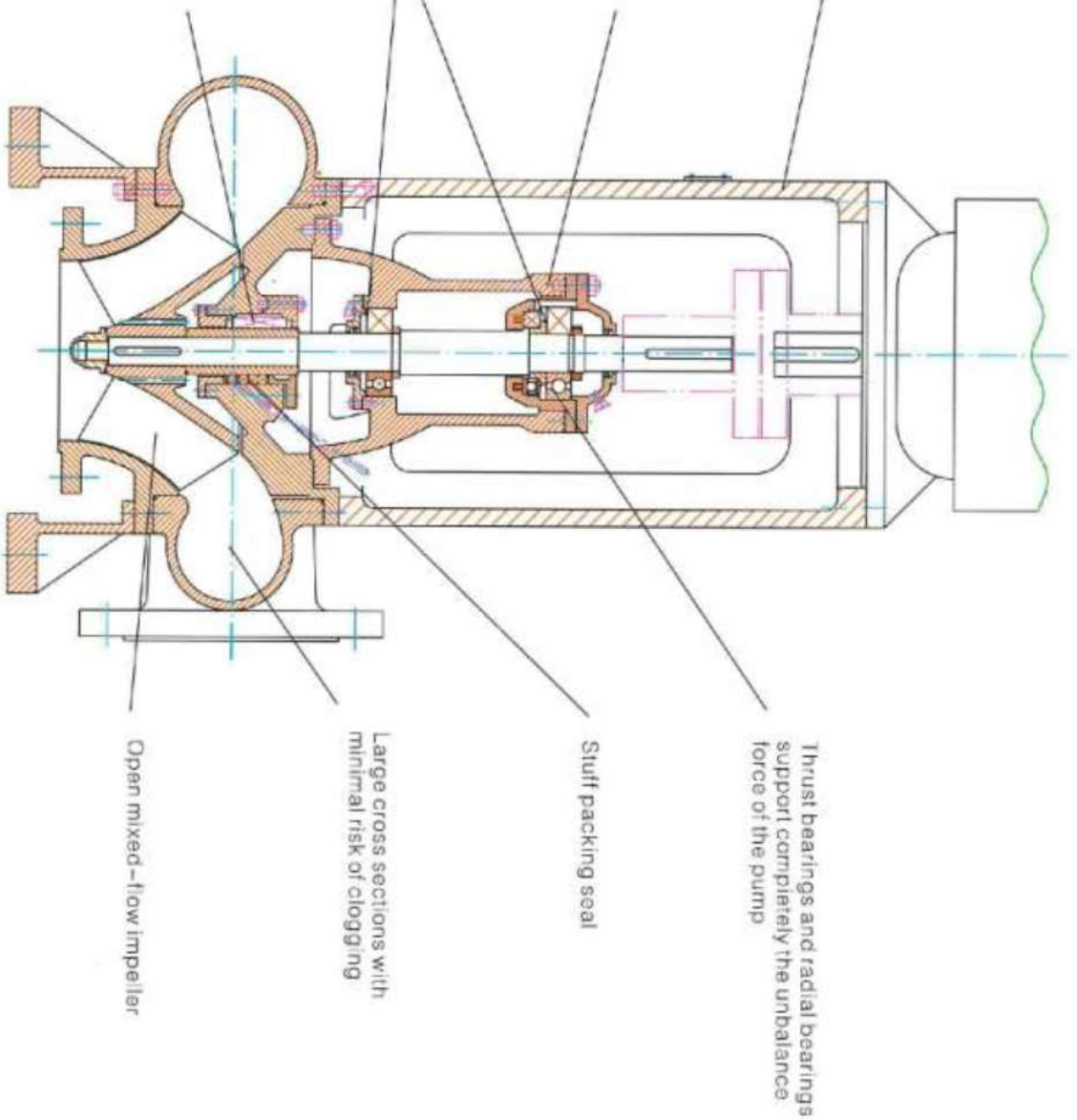
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SOM Sectional Drawing (Horizontally Arrangement)

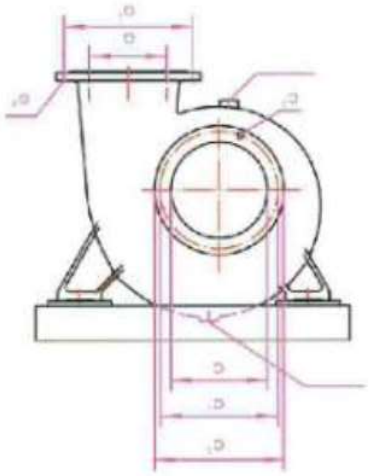


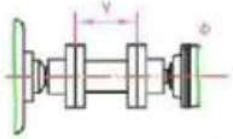
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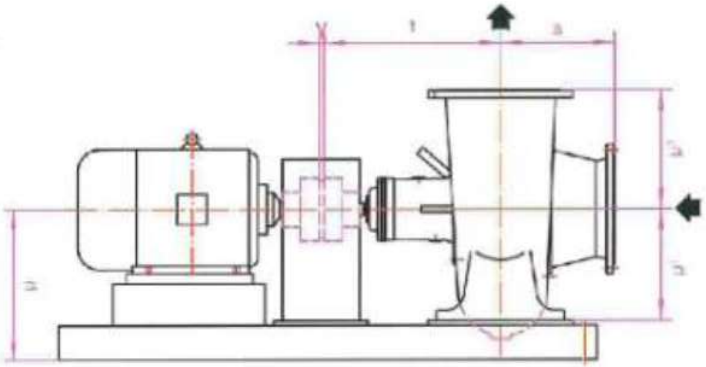
SOMV Sectional Drawing (vertically Arrangement)

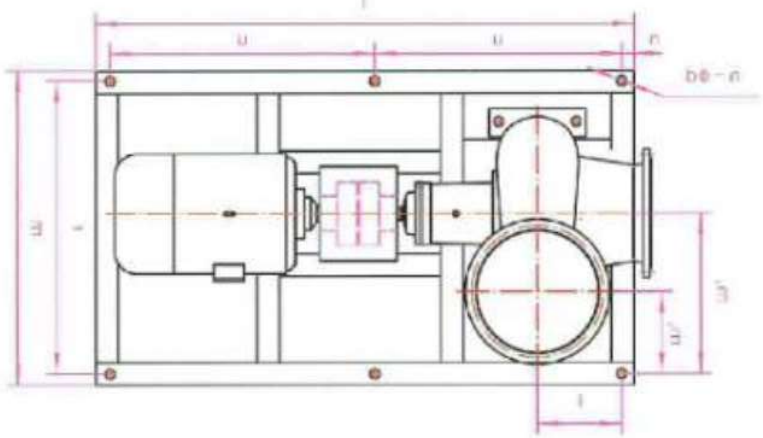


SOM Outline Drawing (Horizontally Arrange-









Type	Discharge Branch				Suction Branch				Pressure
	Dd	d1	d2	D	d	d1	d2	n-d	PN
17.5 - 20	200	295	340	175	8 - Ø22	270	315	8 - Ø22	0.6MPa
20 - 25	250	350	396	200	12 - Ø22	286	340	8 - Ø22	
22.5 - 25	250	350	396	225	12 - Ø22	325	370	8 - Ø22	
25 - 25	250	350	396	250	12 - Ø22	350	395	12 - Ø22	
25 - 30	300	400	446	250	12 - Ø22	350	395	12 - Ø22	
30 - 35	350	460	506	300	16 - Ø22	400	445	12 - Ø22	
35 - 35	350	460	506	350	16 - Ø22	460	505	16 - Ø22	
35 - 40	400	515	566	350	16 - Ø26	460	505	16 - Ø22	
40 - 40	400	485	540	400	16 - Ø22	485	540	16 - Ø22	1.0MPa
40 - 45	450	560	596	400	16 - Ø22	485	540	16 - Ø22	
45 - 50	500	600	646	450	20 - Ø22	550	596	16 - Ø22	
50 - 50	500	600	646	500	20 - Ø22	600	645	20 - Ø22	
50 - 55	550	655	705	500	20 - Ø26	600	645	20 - Ø22	
55 - 60	600	705	755	550	20 - Ø26	655	705	20 - Ø26	
60 - 60	600	705	756	600	20 - Ø26	705	755	20 - Ø26	
60 - 65	650	760	810	600	20 - Ø26	705	755	20 - Ø26	

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SOM Outline& Installing Dimensions

Pump Size	Dimensions of pumps						Dimensions of bases												
							Motor size						Coupling without spacey				Spacer-type coupling			
	a	f	h1	h2	m1	m2		n	i	r	m	h	y	u	l	n-Ø d	y	u	l	n-Ø d
17.5-200	200	564	250	230	345	137	112M-132S 132M-180L	30	200	640	700	438	5	670	1400	6-Ø24	250	670 770	1400 1600	6-Ø24
20 -250	215	545	280	300	420	180	132M-180L 200L-225S	30	215	790	850	468	5	770	1600	6-Ø24	250	770 870	1600 1800	6-Ø24
22.5-250	235	630	315	340	425	160	160L-225M 250M-280S	30	235	790	850	503	5	770 870	1600 1800	6-Ø24	275	870 970	1800 2000	6-Ø24
25 -25	245	620	315	335	425	157	200L-225M 250M-315S	30	245	790	850	503	5	770 870	1600 1800	6-Ø24	300	970 1215	2000 2500	6-Ø24
25 -30	245	620	355	370	502.5	202.5	160L-200L 225S-315S	30	245	940	1000	543	5	870	1800	6-Ø24	300	870 970	1800 2000	6-Ø24
30 -35	295	707	400	420	610	255	200L 225S-315S	30	295	1140	1200	608	5	970	2000	6-Ø24	350	970 1215	2000 2500	6-Ø24
35 -35	345	670	400	400	610	235	280S-315L 355S	30 35	345	1140 1130	1200	608	5	970 1215	2000 2500	6-Ø24	350	1215	2500	6-Ø24
35 -40	345	670	500	440	615	200	225S-315M 355S	30 35	345	1140 1130	1200	708	5	970 1215	2000 2500	6-Ø24	350	1215	2500	6-Ø24
40 -40	390	872	470	450	725.5	297.5	315S-400	35	390	1380	1450	678	50	1215	2500	6-Ø24	450	975	3000	8-Ø33
40 -45	400	862	600	500	727.5	252.5	315S-400	35	360	1380	1450	808	50	1215	2500	6-Ø24	450	975	3000	8-Ø33
45 -50	440	827	600	550	915	385	315S-400	35	400	1730	1800	808	50	1215	2500	6-Ø24	475	975	3000	8-Ø33
50 -50	490	960	600	620									50				550			
50 -55	490	960	710	620									50				550			
55 -60	540	919	800	730									50				650			
60 -60	590	1041	710	730									50				700			
60 -65	590	1041	800	850									50				700			

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SOM Table of Standard Performance

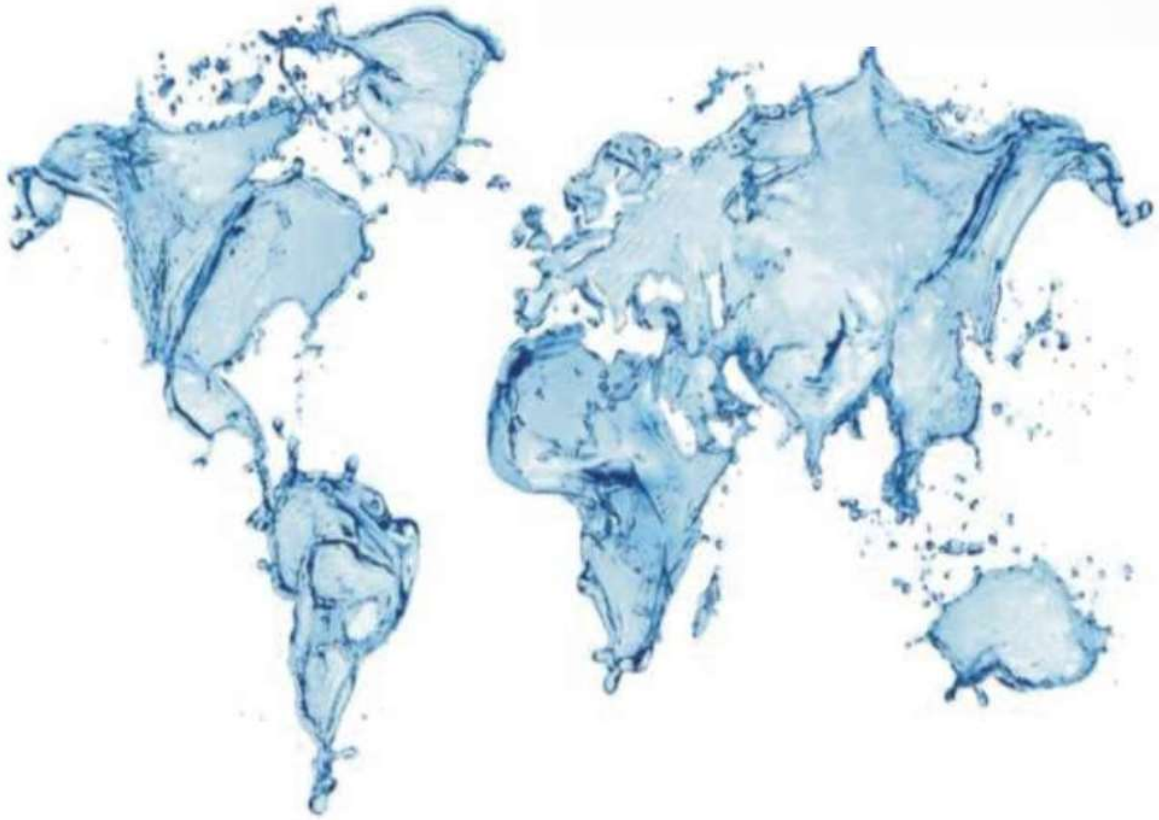
Type	Speed r/min	Impeller code	SY. (mm)	Q (m^3/h)	H (m)	(NPSHr) (m)	Type and Power(kW)					
							Proportion					
							Y=1.0		Y=1.35		Y=1.84	
							Power	Type	Power	Type	Power	Type
SOM17.5-20	n=1450	A	236	360	8.5	3.2	15	160L-4	18.5	180M-4	30	200L-4
		B	222	340	7.5	3	11	160M-4	15	160L-4	22	180L-4
		C	210	320	6.3	3	11	160M-4	15	160L-4	18.5	180M-4
		D	198.5	300	5	4.5	7.5	132M-4	11	160M-4	15	160L-4
SOM 20-25	n=1450	A	270	530	11.2	4	30	200L-4	30	200L-4	45	225M-4
		B	254	500	10	3.9	22	180L-4	30	200L-4	37	225S-4
		C	240	460	8.5	3.8	18.5	180M-4	22	180L-4	30	200L-4
		D	226.5	430	7	5.5	15	160L-4	18.5	180M-4	30	200L-4
SOM20-25	n=970	A	270	350	5	4	7.5	160M-6	11	160L-6	15	180L-6
		B	254	330	4.5	3.8	7.5	160M-6	11	160L-6	11	160L-6
		C	240	300	3.9	3.6	5.5	132M2-6	7.5	160M-6	11	160L-6
SOM 22.5-25	n=1450	A	304	700	15.8	5	45	225M-4	55	250M-4	75	280S-4
		B	285	650	14	5	37	225S-4	55	250M-4	75	280S-4
		C	270	625	11.5	5	30	200L-4	37	225S-4	55	250M-4
		D	255	575	9.5	7.5	30	200L-4	30	200L-4	45	225M-4
SOM 25-25	n=1450	A	338	900	24	6	90	280M-4	110	315S-4	160	315L1-4
		B	317	850	21	5.9	75	280S-4	90	280M-4	132	315M
		C	300	780	18	6	55	250M-4	75	280S-4	110	315S-4
		D	283.5	725	14.5	8.8	45	225M-4	55	250M-4	75	280S-4
SOM 25-30	n=1450	A	338	1100	19.5	6.4	75	280S-4	110	315S-4	160	315L1-4
		B	317	1040	17	6	75	280S-4	90	280M-4	132	315M-4
		C	300	950	14.8	5.8	55	250M-4	75	280S-4	110	315S-4
		D	283.5	880	12	9	45	225M-4	55	250M-4	75	280S-4
SOM 25-30	n=970	A	338	750	8.5	4.7	30	225M-6	37	250M-6	45	280S-6
		B	317	700	7.6	4	22	200L2-6	30	225M-6	37	250M-6
		C	300	650	6.5	3.8	18.5	200L1-6	30	225M-6	30	225M-6
		D	283.5	600	5.3	7.2	15	180L-6	18.5	200L1-6	30	225M-6
SOM 30-35	n=970	A	405	1300	12.2	4.4	75	315S-6	75	315S-6	110	315L1-6
		B	380	1200	11	4	55	280M-6	75	315S-6	90	315M-6
		C	360	1150	9	4	45	280S-6	55	280M-6	75	315S-6
		D	340	1050	7.2	6	30	225M-6	45	280S-6	55	280M-6
SOM 35-35	n=970	A	472	1600	21	5.2	132	315L2-6	160	355S-6	220	355L1-6
		B	444	1500	17	5.3	90	315M-6	132	315L2-6	185	355M1-6
		C	420	1450	13.5	5.5	75	315S-6	110	315L1-6	132	315L2-6
		D	396.5	1350	11	7.8	55	280M-6	75	315S-6	110	315L1-6
SOM 35-40	n=970	A	472	2000	17	6	132	315L2-6	160	355S-6	220	355L1-6
		B	444	1900	15	5.5	110	315L1-6	160	355S-6	185	355M1-6
		C	420	1800	12.2	5.2	90	315M-6	110	315L1-6	160	355S-6
		D	396.5	1700	10	8	75	315S-6	90	315M-6	132	315L2-6
SOM 35-40	n=730	A	472	1500	9.6	4	55	315S-8	75	315M-8	110	315L2-8
		B	444	1450	8.1	3.9	45	280M-8	75	315M-8	75	315M-8
		C	420	1350	7	3.6	37	280S-8	55	315S-8	75	315M-8
		D	396.5	1250	5.7	5.8	30	250M-8	37	280S-8	55	315S-8
SOM 40-40	n=970	A	540	2400	28	7	250	355L2-6				
		B	507	2300	22	7	185	355M1-6	250	355L2-6		
		C	480	2100	18	7	160	355S-6	185	355M1-6	250	355L2-6
		D	453	2000	14.5	9.8	110	315L1-6	160	355S-6	200	355M2-6

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Type	Speed r/min	Impeller code	SY. (mm)	Q (m^3/h)	H (m)	(NPSHr) (m)	Type and Power(kW)					
							Proportion					
							γ=1.0		γ=1.35		γ=1.84	
							Power	Type	Power	Type	Power	Type
SOM40-45	n=970	A	540	3200	20.6	8	250	355L2-6				
		B	507	3000	18.5	7.5	200	355M2-6				
		C	480	2800	16	7.1	160	355S-6	220	355M2-6		
		D	453	2500	13.5	10	132	315L2-6	185	355M1-6	250	355L2-6
SOM 40-45	n=730	A	540	2400	11.6	6	110	315L2-8	132	355S-8	185	355L1-8
		B	507	2200	10.9	5.4	90	315L1-8	132	355S-8	160	355M-8
		C	480	2000	9.5	5	75	315M-8	90	315L1-8	132	355S-8
		D	453	1800	8	8	55	315S-8	75	315M-8	110	315L2-8
SOM45-50	n=730	A	608	3300	15.8	5.2	185	355L1-8				
		B	570	3100	13.8	5	160	355M-8	200	355L2-8		
		C	540	2900	12	5	132	355S-8	185	355L1-8		
		D	510	2600	10.2	7.3	110	315L2-8	132	355S-8	185	355L1-8
SOM 45-50	n=580	A	608	2600	10	3.4	90	355S-10	132	355M2-10	185	355L2-10
		B	570	2500	8.6	3.1	75	315L2-10	110	355M1-10	160	355L1-10
		C	540	2300	7.8	3	75	315L2-10	90	355S-10	132	355M2-10
		D	510	2200	6	5.8	55	315S-10	75	315L2-10	90	355S-10
SOM50-50	n=730	A	675	3700	24	5						
		B	634	3400	20	5						
		C	600	3200	16	5	185	355L1-8				
		D	567	3000	12.8	7	160	355M-8	200	355L2-8		
SOM 50-55	n=730	A	675	4500	20	5.5						
		B	634	4300	17.5	5.1						
		C	600	4000	15	5						
		D	567	3800	12.3	7.6	185	355L1-8				
SOM50-55	n=580	A	675	3600	12.6	3.8	160	355L1-10				
		B	634	3400	11	3.4	132	355M2-10	185	355L2-10		
		C	600	3200	9.4	3.1	110	355M1-10	160	355L1-10		
		D	567	3000	8	5.8	90	355S-10	132	355M2-10	160	355L1-10
SOM 55-60	n=580	A	742	4800	15	5.2						
		B	696	4400	13.5	5						
		C	660	4100	11.5	4.9	185	355L2-10				
		D	623	3900	9.5	7.2	132	355M2-10	185	355L2-10		
SOM55-60	n=480	A	742	3800	10.5	3.5						
		B	696	3700	9.1	3.2						
		C	660	3400	8	2.9						
		D	623	3200	6.5	5.1						
SOM 60-60	n=580	A	810	5200	21.5	5.6						
		B	760	5000	17	5.6						
		C	720	4500	14	5.6						
		D	680	4300	11	7.8	185	355L2-10				
SOM60-65	n=580	A	810	6200	17	6.2						
		B	760	5800	15	6						
		C	720	5400	13	5.8						
		D	680	5100	10.5	8						
SOM 60-65	n=480	A	810	5200	11.5	4.2						
		B	760	5000	10	4						
		C	720	4600	8.5	3.5						
		D	680	4000	7.5	6						

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