







## SOM

Chemical Mixed-Flow Pumps



Source Pumps & Systems Co., LTD.

www. sourcegroup. com. cn



### 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  $\sim 8000 \text{ m}$  %h

—Head  $H: up to \sim 25m$ 

—Pressure P: up to  $\sim 0.6$ MPa

—Temperature  $T: -20 \sim +155^{\circ}C$ 

### 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.

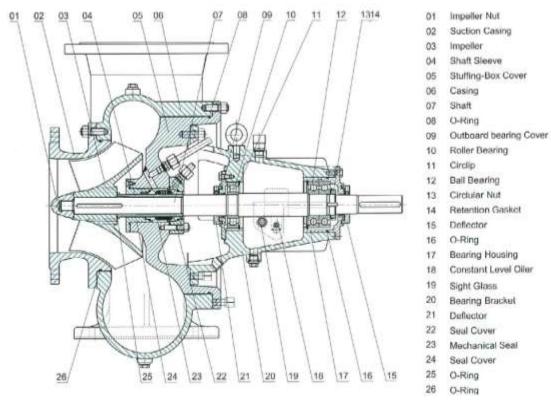
In order to drain conveniently for suction pipeline, the completely drain equipment could be installed on setting.

### Seal Type

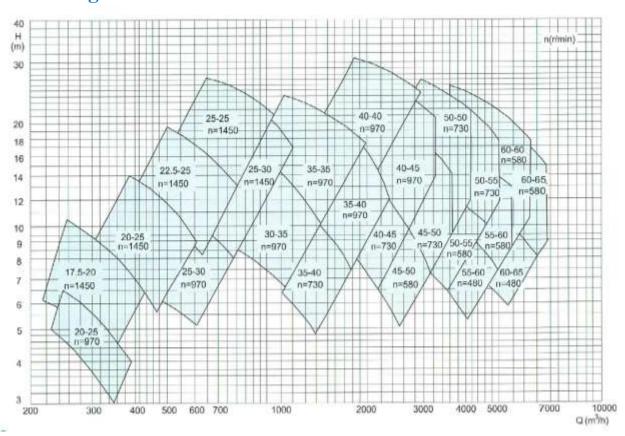
The packing or single and double end mechanical seal.



### **SOM Section Drawing**

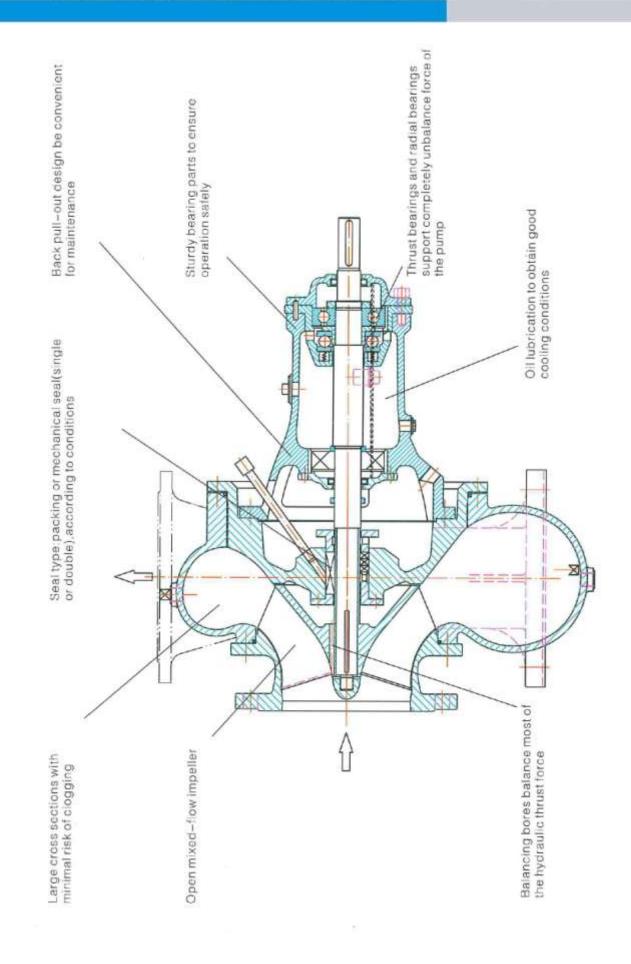


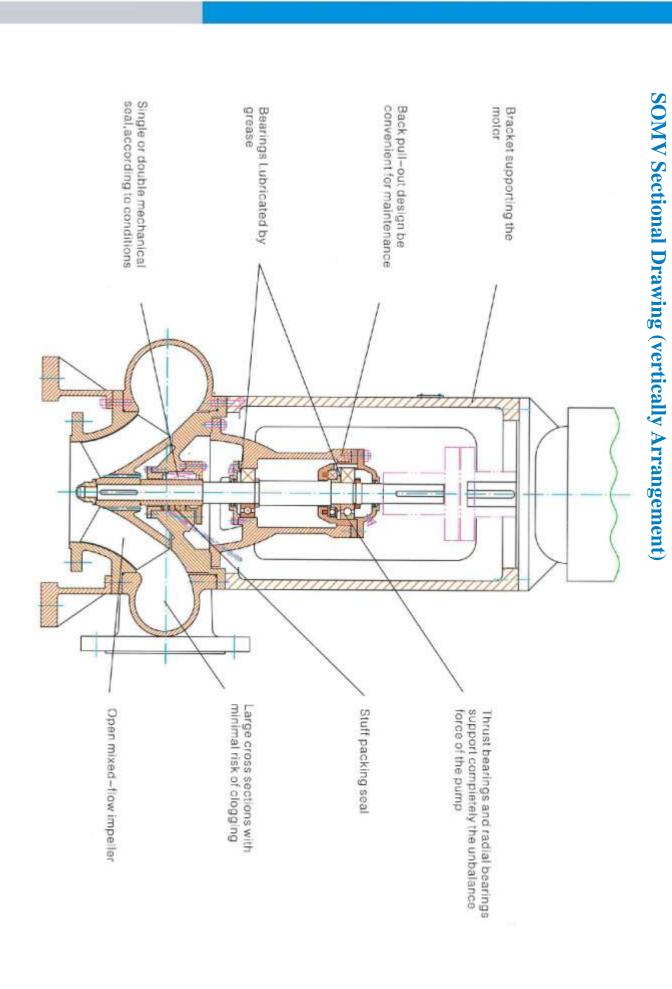
### **SOM Range of Performance**





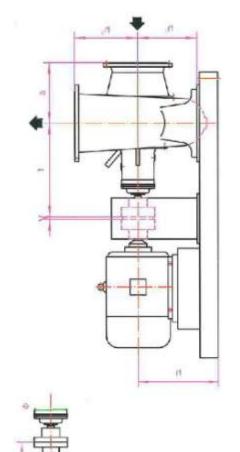
# SOM Sectional Drawing (Horizontally Arrangement)



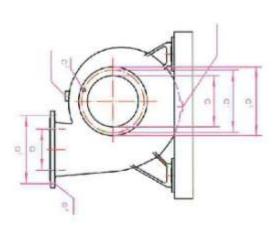


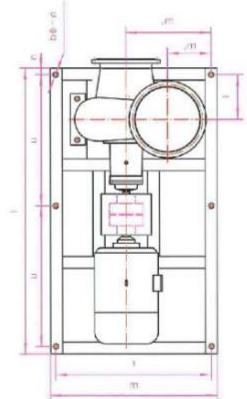


SOM Outline Drawing (Horizontally Arrange-



Pressure	done18 noitous	pirons	26		Discharge Branch	ischai	0		
ьи	8	20	91	De	Ð	S	ū	Dq	Type
	8-022	315	270	37.5	8-055	346	295	500	7.5-20
	8-022	ONE	388	500	15-055	386	350	520	20 - 25
	8-022	370	385	325	15-055	395	350	250	35 2-52
	15-055	396	950	Seo	15-055	385	350	250	25 - 25
s dWa, o	15-055	386	950	SEO	12-022	304	400	300	06 - 35
	15-055	345	400	300	16-022	303	460	320	30 -32
	16-022	505	034	360	18-055	30g	460	320	35 - 35
	18-022	305	460	360	35.0 - 81	393	315	400	39 - 40
	16-622	540	785	400	16-022	049	482	400	40 - 40
	18-022	DND	987	400	16-022	989	999	420	GP - 0b
	16-022	585	550	420	50-055	846	900	900	08. 3b
	20-022	245	600	500	20-022	249	000	900	05. 05
s 9M0	50 - 055	849	009	200	20 - 026	307	999	959	56. 08
	30-059	705	659	033	50-050	355	307	900	55 - 60
	50 - OSE	755	307	800	50 - Q58	3BE	705	900	09 - 09
	850 - 02	755	30V	900	20 - Ø26	018	760	059	69 - 69







## **SOM Outline& Installing Dimensions**

3 3 3 3 3	30 30 30 30 30 30 30 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n 1 r 30 200 640 30 215 790 30 245 790	n   r m 30 200 640 700 30 215 790 850 30 245 790 850 30 245 790 850	n i r m 30 200 640 700 30 215 790 850 30 235 790 850 30 245 790 850	n   r m h y  30 200 640 700 438 5  30 215 790 850 503 5  30 245 790 850 503 5	Coupling  n i r m h y u  30 200 840 700 438 5 870  30 215 790 850 488 5 770  30 235 780 850 503 5 770  30 245 790 850 503 5 870  30 245 940 1000 543 5 870	Coupling  n i r m h y u  30 200 640 700 438 5 870  30 215 790 850 468 5 770  30 235 780 850 503 5 870  30 245 790 850 503 5 870	The state of the s	Coupling without spacey  n i r m h y u i n-Ød  30 200 640 700 438 5 870 1400 6-Ø24 2  30 215 790 850 503 5 770 1600 6-Ø24 2  30 235 780 850 503 5 770 1600 6-Ø24 2	Coupling without spacey Spacer—  n i r m h y u i n-Od y u  30 200 640 700 438 5 870 1400 6-Ø24 250 67  30 215 790 850 468 5 770 1600 6-Ø24 250 87  30 235 780 850 503 5 870 1600 6-Ø24 275 87  30 245 790 850 503 5 870 1600 6-Ø24 300 67  31 245 790 850 503 5 870 1600 6-Ø24 275 87	Coupling without spacey  n i r m h y u i n-Ød y  30 200 640 700 438 5 870 1400 6-Ø24 250  30 215 790 850 503 5 770 1600 6-Ø24 250  30 235 790 850 503 5 870 1600 6-Ø24 275  30 245 790 850 503 5 870 1600 6-Ø24 275
	235 215 200 -	200 640 215 790 235 780	700 640 700 215 790 850 235 780 850	700 640 700 215 790 850 235 780 850	1 r m h y 200 840 700 438 5 215 790 850 468 5	Coupling  1 r m h y u  200 640 700 438 5 870  215 790 850 468 5 770  235 780 850 503 5 870	Coupling  1 r m h y u  200 640 700 438 5 870  215 790 850 468 5 770  235 780 850 503 5 870	Coupling without span	Coupling without spacey  1 r m h y u 1 n-Ød  200 640 700 438 5 870 1400 6-Ø24 2  215 790 850 468 5 770 1600 6-Ø24 2  235 780 850 503 5 870 1800 6-Ø24 2	Coupling without spacery Spacer—  1 r m h y u l n-Ød y u  200 640 700 438 5 870 1400 6-Ø24 250 67  215 790 850 468 5 770 1600 6-Ø24 250 87  235 780 850 503 5 870 1800 6-Ø24 275 87	Coupling without spacery Spacer—  1 r m h y u l n-Ød y u  200 640 700 438 5 870 1400 6-Ø24 250 67  215 790 850 468 5 770 1600 6-Ø24 250 87  235 780 850 503 5 870 1800 6-Ø24 275 87
		790 790	790 850 790 850	790 850 790 850	790 850 468 5 790 850 503 5	P m h y u 640 700 438 5 870 790 850 468 5 770 790 850 503 5 770 790 850 503 5 770 870	P m h y u 640 700 438 5 870 790 850 468 5 770 790 850 503 5 770 790 850 503 5 770 870	Coupling without spa 640 700 438 5 870 1400 6- 790 850 503 5 770 1600 6- 790 850 503 5 770 1600 6- 790 850 503 5 870 1600 6-	Coupling without spacey  F m h y u I n-Od  640 700 438 5 870 1400 6-Ø24 2  790 850 503 5 770 1600 6-Ø24 2  790 850 503 5 870 1600 6-Ø24 2	Coupling without spacey Spacer  r m h y u l n-Od y u  790 850 468 5 770 1600 6-024 250 87  790 850 503 5 770 1600 6-024 275 87  790 850 503 5 870 1800 6-024 275 87  790 850 503 5 870 1800 6-024 300 97	Coupling without spacey Spacer  r m h y u l n-Od y u  790 850 468 5 770 1600 6-024 250 87  790 850 503 5 770 1600 6-024 275 87  790 850 503 5 870 1800 6-024 275 87  790 850 503 5 870 1800 6-024 300 97



### **SOM Table of Standard Performance**

	Speed	Impeller code	SY. (mm)	Q		(NPSHr) (m)				d Power(kW)		
Type					н		5 0	v = 1.0		ortion =1.35		=1.84
1,750	r/min			(m <sup>3</sup> /b)	(m)		Power	Туре	Power	Туре	Power	Туре
		A	236	360	8.5	3.2	15	160L-4	18.5	180M-4	30	200L-
		В	222	340	7.5	3	11	160M-4	15	160L-4	22	180L-
SOM 17.5-20	n=1450	С	210	320	6.3	3	11	160M-4	15	160L-4	18.5	180M
		D	198.5	300	5	4,5	7.5	132M-4	11	160M-4	15	160L-
		A	270	530	11.2	4	30	200L-4	30	200L-4	45	225M
	100000	В	254	500	10	3.9	22	180L-4	30	200L-4	37	225S
SOM 20-25	n=1450	С	240	460	8.5	3.8	18.5	180M-4	22	180L-4	30	200L
		D	226.5	430	7	5.5	15	160L-4	18.5	180M-4	30	200L-
		A	270	350	5	4	7.5	160M-6	11	160L-6	15	180L
SOM 20-25	n=970	В	254	330	4.5	3.8	7.5	160M-6	11	160L-6	11	160L
DOMESTO		C	240	300	3.9	3.6	5.5	132M2-6	7.5	160M-6	11	160L
		A	304	700	15.8	5	45	225M-4	55	250M-4	75	280S
mercona was did	100000000000000000000000000000000000000	В	285	650	14	5	37	225S-4	55	250M-4	75	280S
SOM 22.5-25	n=1450	C	270	625	11.5	5	30	200L-4	37	225S-4	55	250M
		D	255	575	9.5	7.5	30	200L-4	30	200L-4	45	225M
		A	338	900	24	6	90	280M-4	110	315S-4	160	315L1
		В	317	850	21	5.9	75	280S-4	90	280M-4	132	3151
SOM 25-25	n=1450	C	300	780	18	6	55	250M-4	75	280S-4	110	3155
		D		725	14.5	8.8	45	225M-4	55	250M-4	75	2805
			283.5				75			315S-4	160	315L1
		A	338	1100	19.5	6.4	5/5/	2805-4	110			
SOM 25-30	n=1450	В	317	1040	17	6	75	280S-4	90	280M-4	132	315M
		С	300	950	14.8	5.8	55	250M-4	75	280S-4	110	315S
		D	283,5	880	12	9	45	225M-4	55	250M-4	75	2805
		A	338	750	8.5	4.7	30	225M-6	37	250M-6	45	280S
SOM 25-30	n=970	В	317	700	7.6	4	22	200L2-6	30	225M-6	37	250M
		С	300	650	6.5	3,8	18.5	200L1-6	30	225M-6	30	225M
		D	283.5	600	5.3	7.2	15	180L-6	18.5	200L1-6	30	225M
		A	405	1300	12.2	4.4	75	315S-6	75	315S-6	110	315L1
SOM 30-35	n=970	В	380	1200	11	4	55	280M-6	75	315S-6	90	315M
JOH OV OV	11.07.0	C	360	1150	9	4	45	280S-6	55	280M-6	75	315S
		D	340	1050	7.2	6	30	225M-6	45	280S-6	55	280M
SOM 35-35		A	472	1600	21	5.2	132	315L2-6	160	355S-6	220	355L1
	n=970	В	444	1500	17	5.3	90	315M-6	132	315L2-6	185	355M
	n=970	С	420	1450	13.5	5.5	75	315S-6	110	315L1-6	132	315L2
		D	396.5	1350	11	7.8	55	280M-6	75	315S-6	110	315L1
SOM 35-40		A	472	2000	17	6	132	315L2-6	160	355S-6	220	355L1
	n=970	В	444	1900	15	5.5	110	315L1-6	160	355S-6	185	355M
	n=9/U	С	420	1800	12.2	5.2	90	315M-6	110	315L1-6	160	355S
		D	396.5	1700	10	8	75	315S-6	90	315M-6	132	315L2
		A	472	1500	9.6	4	55	315S-8	75	315M-8	110	315L2
SOM 35-40	n=730	В	444	1450	8.1	3.9	45	280M-8	75	315M-8	75	315M
3C/N 33-40	1977 A. W. C.	C	420	1350	7	3.6	37	280S-8	55	315S-8	75	315M
		. D	396.5	1250	5.7	5.8	30	250M-8	37	280S-8	55	3158
		A	540	2400	28	7	250	355L2-6				
		В	507	2300	22	7	185	355M1-6	250	355L2-6		
SOM 40-40	n=970	С	480	2100	18	7	160	355S-6	185	355M1-6	250	355L2
		D	453	2000	14.5	9.8	110	315L1-6	160	355S-6	200	355M



### **SOM Table of Standard Performance**

									17.700.000	Power(kW)		
Tuna	Speed	Impeller code	SY. (mm)	Q (m³/h)	Н	(NPSHr)				oportion		2004 PM P
Туре	r/min				(m)		_	v=1.0	- 3	=1.35		=1.84
							Power	Туре	Power	Type	Power	Type
		Α	540	3200	20.6	8	250	355L2-6				
001110-15	070	В	507	3000	18.5	7.5	200	355M2-6				
SOM 40-45	n=970	С	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
		A	540	2400	11.6	6	110	315L2-8	132	355S-8	185	355L1-8
MESSAG VIC	1222	В	507	2200	10.9	5.4	90	315L1-8	132	355S-8	160	355M-8
SOM 40-45	n=730	С	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	315L2-6
		A	608	3300	15.8	5.2	185	355L1-8	770		1127	
		В	570	3100	13.8	5	160	355M-8	200	355L2-8		
SOM45-50	n=730	С	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
		A	608	2600	10	3.4	90	355S-10	132	355M2-10	185	355L2-1
CENTER S	53165	В	570	2500	8.6	3.1	75	315L2-10	110	355M1-10	160	355L1-1
SOM 45-50	n=580	C	540	2300	7.8	3	75	315L2-10	90	355S-10	132	355M2-1
		D	510	2200	6	5.8	55	315S-10	75	315L2-10	90	355S-10
		A	675	3700	24	5		5100 10	10	GIOLE 10	- 00	5555
CONTENTO	700	В	634	3400	20	5						
SOM50-50	n=730	C	600	3200	16	5	185	355L1-8				
	la les	D	567	3000	12.8	7	160	355M-8	200	355L2-8		
		A	675	4500	20	5.5	100	OCCUPIED.	200	JUJULE-U		
20000000000000000000000000000000000000		В	634	4300	17.5	5.1						
SOM 50-55	n=730	C	600	4000	15	5						_
		D	567	3800	12.3	7.6	185	355L1-8				
		A	675	3600	12.6	3.8	160	355L1-10				
		В	634	3400	11	3.4	132	355M2-10	185	355L2-10		
SOM50-55	n=580	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	355L1-1
		A	742	4800	15	5.2	.50	3333-10	102	000MZ-10	100	300L1-11
		В	696	4400	13.5	5.2						-
SOM 55-60	n=580	C	660	4100	500000	4.9	400	2551 2 40				
			623	3900	11.5 9.5	7.2	185	355L2-10	400	2551 2 42		-
		D	-	-		2004	132	355M2-10	185	355L2-10		_
SOM55-60		A	742	3800	10.5	3.5						
	n=480	В	696	3700	9.1	3.2						
		C	660	3400	8	2.9						
		D	623	3200	6.5	5.1						
SOM 60-60		A	810	5200	21.5	5.6						
	n=580	В	760	5000	17	5.6						
		С	720	4500	14	5.6	ine	0551.0.10				
		D	680	4300	11	7.8	185	355L2-10				
		A	810	6200	17	6.2						
SOM60-65	n=580	В	760	5800	15	6						
	E 11 5	C	720	5400	13	5.8						
		D	680	5100	10.5	8						
		_ A	810	5200	11.5	4.2						
SOM 60-65	n=480	В	760	5000	10	4						
		С	720	4600	8.5	3.5						
		D	680	4000	7.5	6						





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