



Pumps & Systems



+
SOC

Standard Chemical Process Pumps



Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

● **General**

Type SOC standard chemical process pumps are horizontal, single-stage, single-suction, radial-split centrifugal pumps with their dimensions and performance in conformity with ISO 2856. The size 150-400 and up are proprietary. the indexes of efficiency and cavitation performance both exceed that of IH pump type. Making exchange with the single pump of these two type is allowed.

The designing of pump SOC is according to ASME B73.1, ISO5199.

● **Application**

The chemical and petrochemical industries

Refineries

The pulp and paper industries

The sugar industries

● **Performance**

Size DN: 32~300mm

Capacity Q : ~2000 m³/h

Heads H: ~160m

Operating Pressure P: ~2.5Mpa

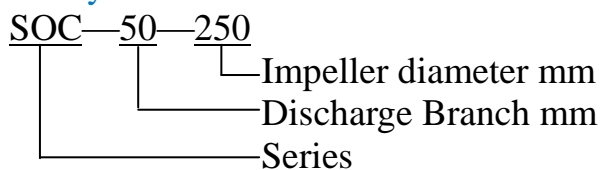
Operating Temperature T: ~ 260 °C

● **Pumping mediums and materials**

The pumps can handle of clean liquids or liquids containing solids.

The materials of the pump can be selected C,S,12%CHR steel and other stainless steers. depended on the service conditions.

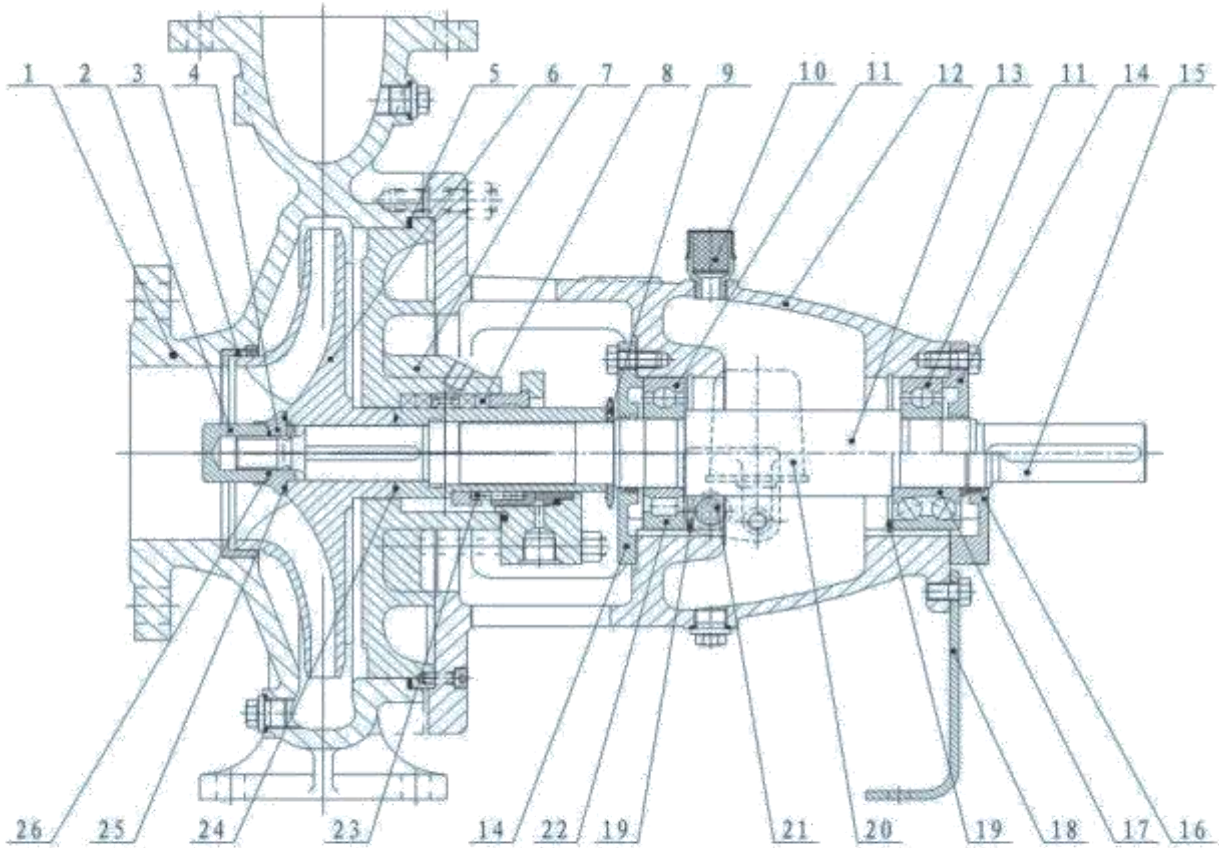
● **Symbol**



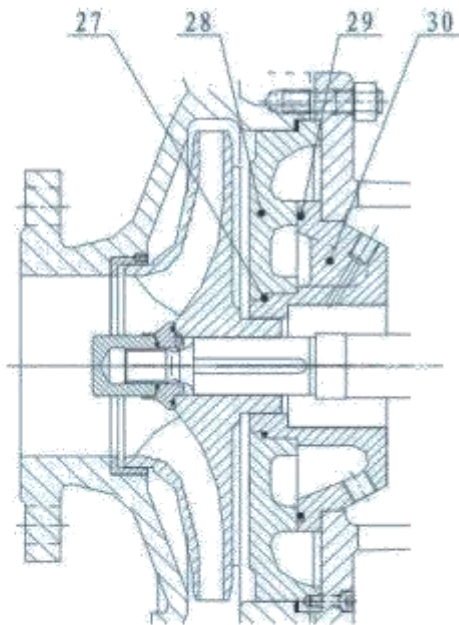
Product Features

- Hydraulic design the axial force is balanced by back vanes or balancing bores at the impeller. for some sizes. the casing is designed double volute to compensate the radial forces.
- Shaft seal design the shaft is sealed either by soft packing or by single or double mechanical seal with various flush plans. The secondary impeller seal will be designed when necessary.
- Flange grade the suction branch and discharge branch are the same pressure grade. PN2.5Mpa is standard. They can also be designed PN1.6Mpa or 150lbs.
- Structure design the pull out back structure and a spacer-type coupling is used, the volute casing and the driver need not to be removed from the pipework when maintenance.

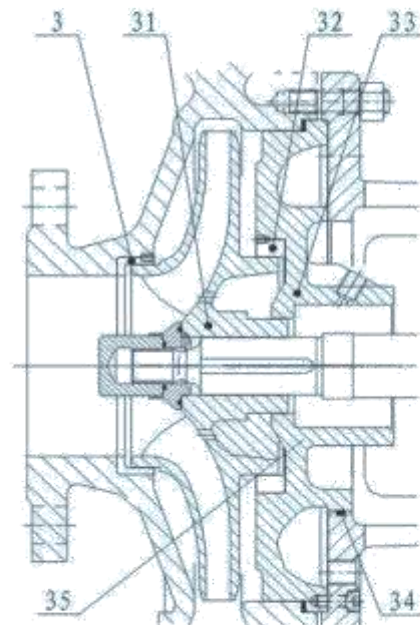
SOC Sectional Drawings



Impeller with back vanes,stuffing box uncooled



Impeller with back vanes,stuffing box cooled



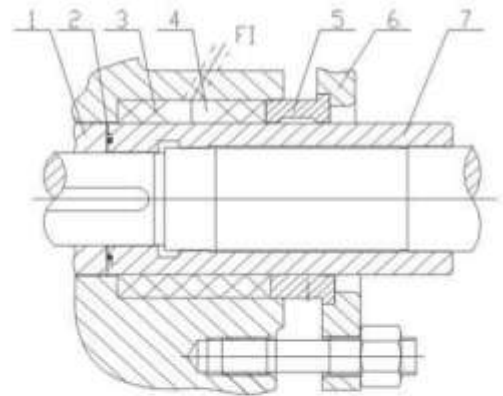
Impeller with balancing bores,stuffing box cooled/uncooled

Pump parts list

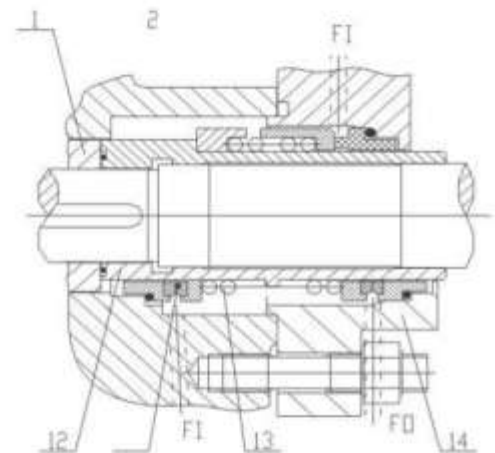
- 1 casing
- ☆ 2 impeller nut
- ☆ 3 wearing ring
- ☆ 4 collar disc
- ☆ 5 gasket
- ☆ 6 impeller
- 7 casing cover
- ☆ 8 packing seal
- 9 deflector
- 10 oil filling plug
- 11 bearing
- 12 bearing bracket
- 13 shaft
- 14 bearing cover
- 15 shaft
- 16 circlip
- 17 bearing
- 18 foot
- 19 circlip
- 20 constant level oiler
- 21 oil level indicator
- 22 bearing
- 23 mechanical seal
- ☆ 24 O-ring
- ☆ 25 O-ring
- ☆ 26 O-ring
- ☆ 27 O-ring
- 28 casing cover
- ☆ 29 O-ring
- 30 stuffing box
- ☆ 31 impeller
- ☆ 32 wearing ring
- 33 casing cover
- ☆ 34 O-ring
- 35 casing cover

☆Being spare parts

Shaft Seal Drawings



Packed stuffing box

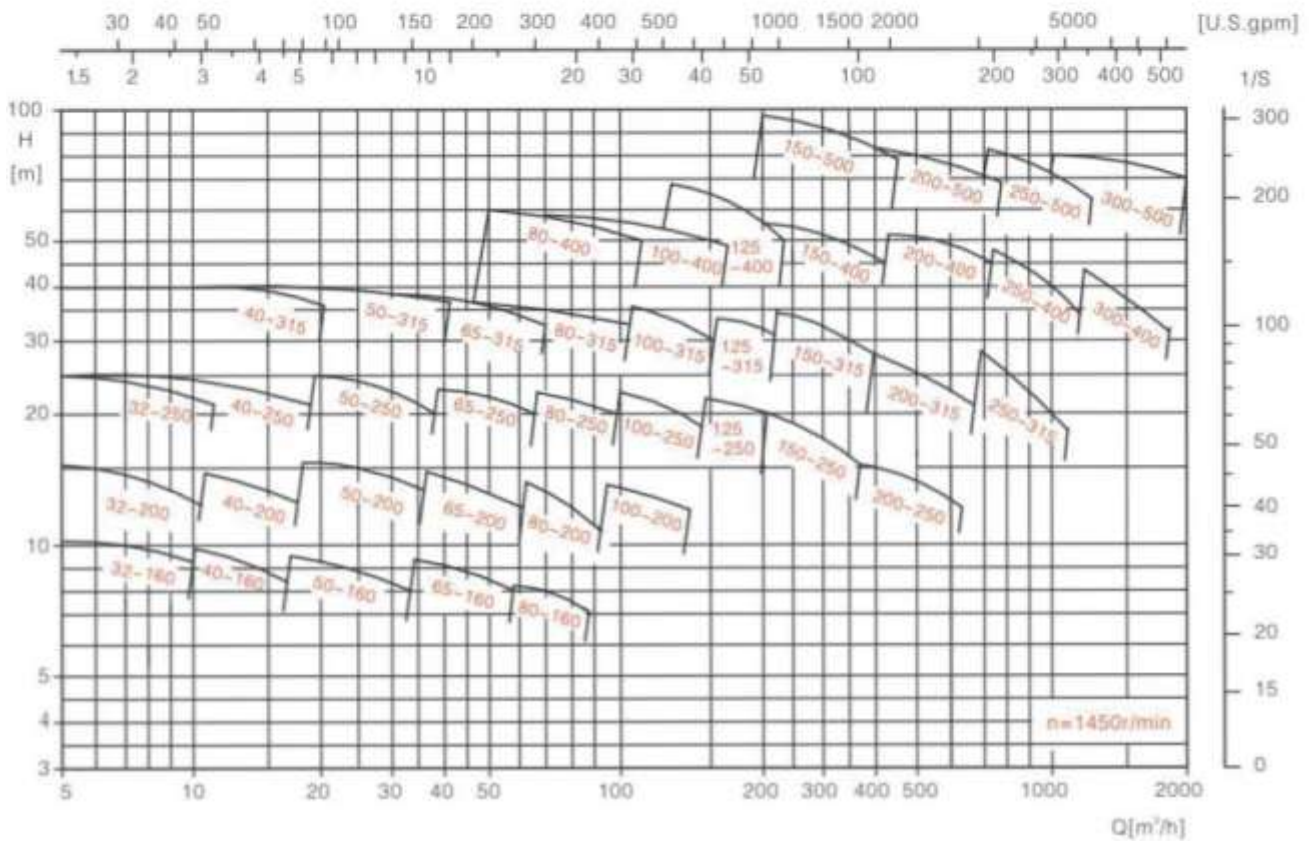
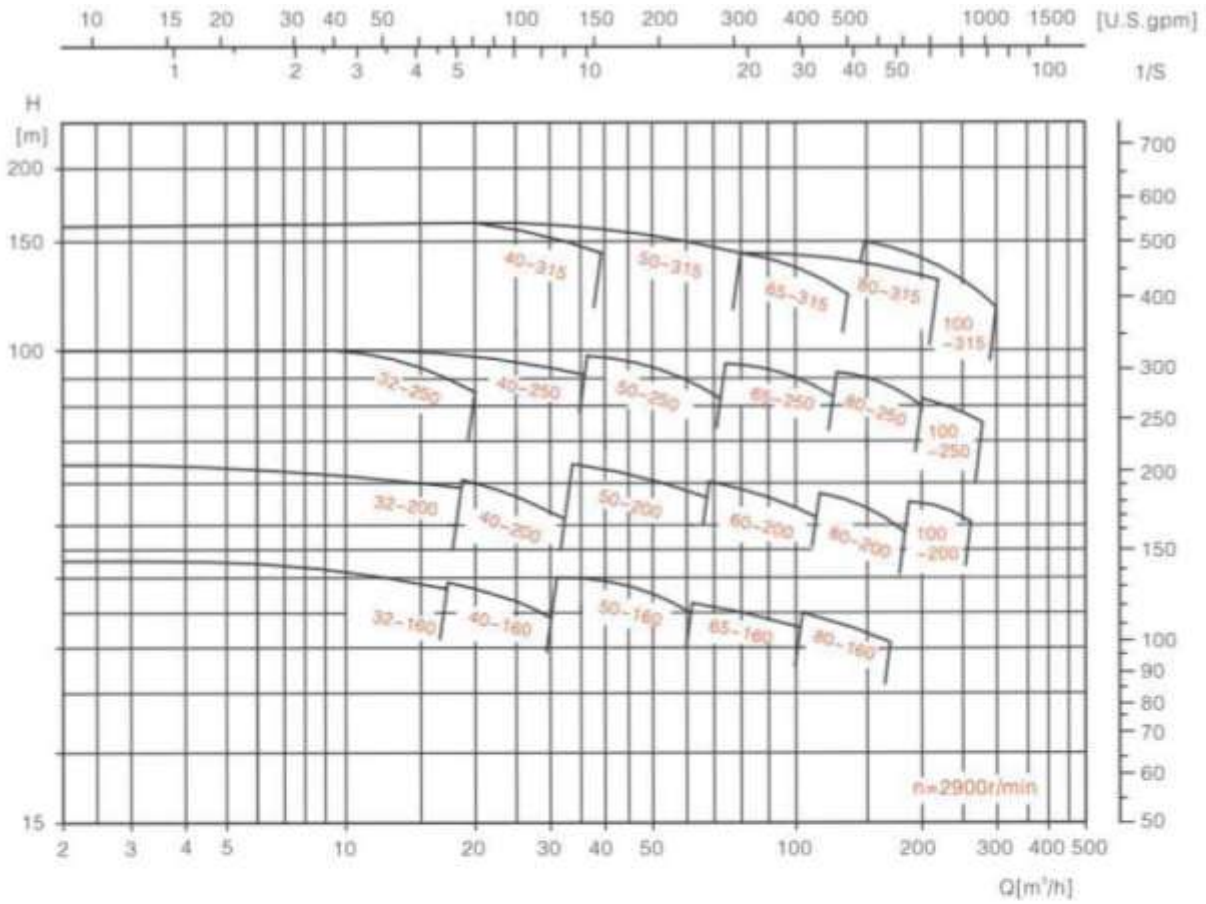


Single/Double mechanical seals

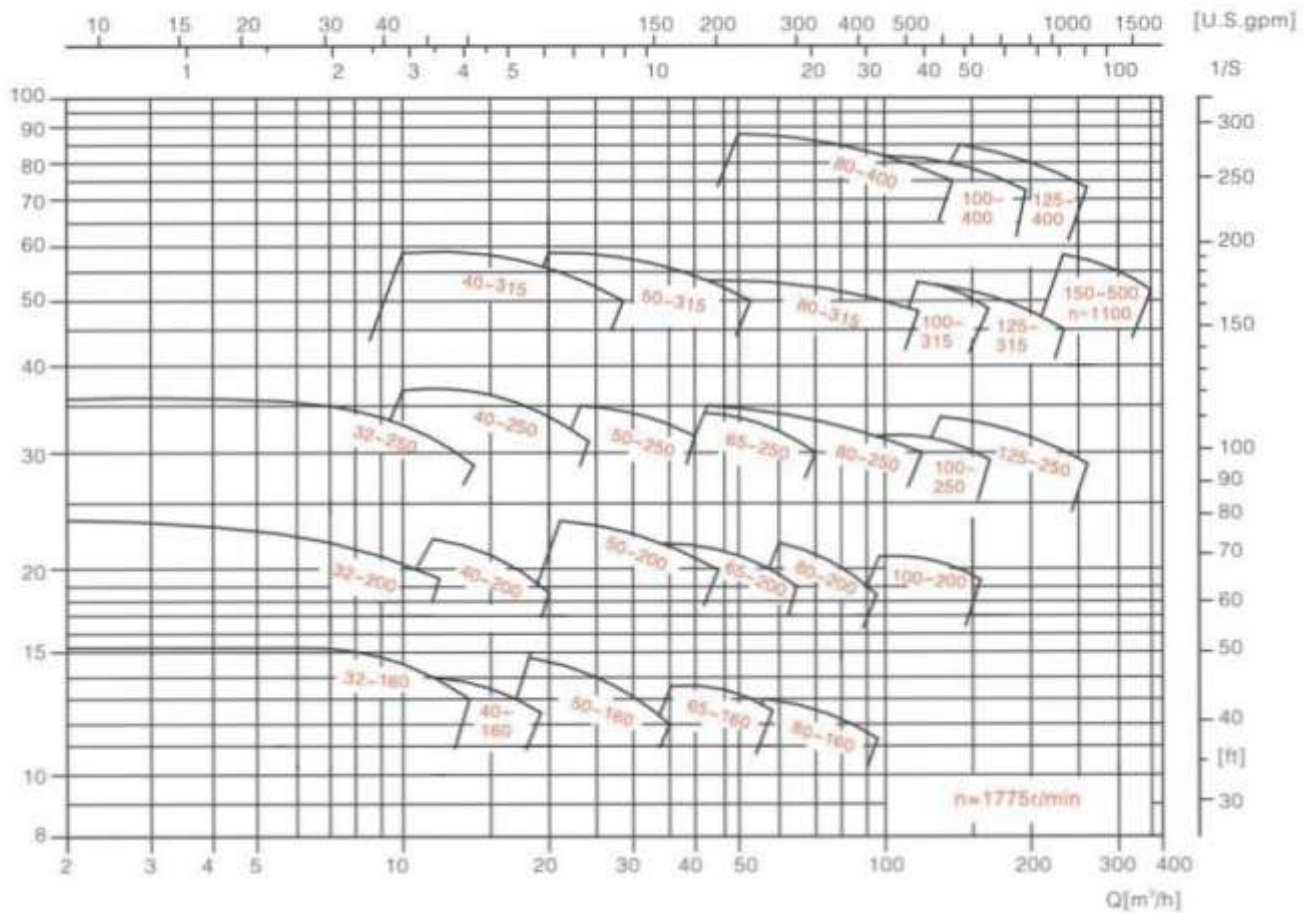
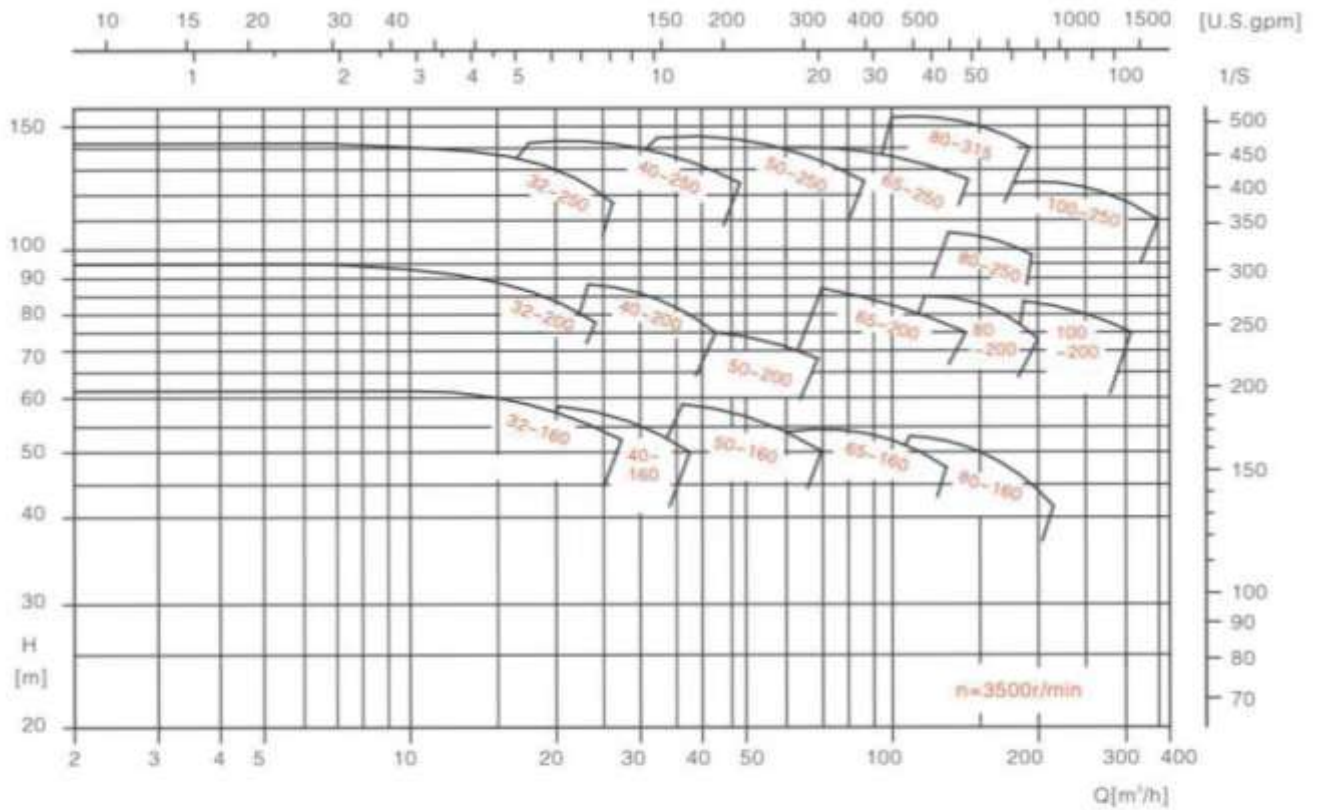
Shaft seal parts list

- | | |
|---------------------------|----------------|
| 1 impeller | 2 O-ring |
| 3 packing | 4 lantern ring |
| 5 gland insert | 6 gland |
| 7 shaft sleeve | 8 shaft sleeve |
| 9 single mechanical seal | |
| 10 seal rings | 11 gland |
| 12 shaft sleeve | |
| 13 double mechanical seal | |
| 14 shaft sleeve | |

SOC Performance Charts (5 0Hz)



SOC Performance Charts (60Hz)



SOC Table of Standard Performance

Type	Impeller SY	Speed n=2900r/min										Speed n=1450r/min									
		Flow Q m ³ /h	Head H m	Proportion $\gamma=1.0$		Proportion $\gamma=1.35$		Proportion $\gamma=1.85$		Q m ³ /h	H m	Proportion $\gamma=1.0$		Proportion $\gamma=1.35$		Proportion $\gamma=1.85$					
				Ppwer and Type(KW)								Ppwer and Type(KW)									
				kW		kW		kW				kW		kW		kW					
32-160	A	20	36	4	Y112M-2	5.5	Y132S-2	7.5	Y132S ₂ -2	11	9	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4				
	B								10	8	1.1					Y90S-4	1.1	Y90S-4	1.1	Y90S-4	
	C	17	28	3	Y100L-2	4	Y112M-2	5.5	Y132S ₂ -2	9	7					1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4
	D	15	20	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	6	5					1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4
	E	13	14							6	3					1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4
32-200	A	20	50	7.5	Y132S ₂ -2	11	Y160M ₂ -2	15	Y160M ₂ -2	10	13	1.5	Y90L-4	1.5	Y90L-4	2.2	Y100L ₂ -4				
	B	18	48							9	12					1.5	Y90L-4	1.5	Y90L-4	1.5	Y90L-4
	C	16	40	5.5	Y132S ₂ -2	7.5	Y132S ₂ -2	11	Y160M ₂ -2	8	10					1.5	Y90L-4	1.5	Y90L-4	1.5	Y90L-4
	D	15	30	4	Y112M-2	5.5	Y132S ₂ -2	7.5	Y132S ₂ -2	8	8					1.5	Y90L-4	1.5	Y90L-4	1.5	Y90L-4
32-250	A	20	85	15	Y160M ₂ -2	18.5	Y160L-2	30	Y200L ₂ -2	11	20	2.2	Y100L ₂ -4	3	Y100L ₂ -4	4	Y112M-4				
	B	20	75							10	19					2.2	Y100L ₂ -4	3	Y112M-4		
	C	18	65	11	Y160M ₂ -2	15	Y160M ₂ -2	18.5	Y160L-2	9	15					2.2	Y100L ₂ -4	3	Y112M-4		
	D	15	50	7.5	Y132S ₂ -2	11	Y160M ₂ -2	15	Y160M ₂ -2	8	11					2.2	Y100L ₂ -4	2.2	Y100L ₂ -4		
40-160	A	30	34	7.5	Y132S ₂ -2	11	Y160M ₂ -2	15	Y160M ₂ -2	15	8	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4				
	B	28	30	5.5	Y132S ₂ -2	7.5	Y132S ₂ -2	11	Y160M ₂ -2	15	7					1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4
	C	16	26	5.5	Y132S ₂ -2	7.5	Y132S ₂ -2	11	Y160M ₂ -2	14	6					1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4
	D	14	18	3	Y100L-2	5.5	Y132S ₂ -2	7.5	Y132S ₂ -2	12	4					1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4
40-200	A	34	50	11	Y160M ₂ -2	15	Y160M ₂ -2			16	13	1.5	Y90L-4	1.5	Y90L-4	2.2	Y100L ₂ -4				
	B	30	48	7.5	Y132S ₂ -2	11	Y160M ₂ -2	15	Y160M ₂ -2	15	12					1.5	Y90L-4	1.5	Y90L-4	2.2	Y100L ₂ -4
	C	26	38	5.5	Y132S ₂ -2	7.5	Y132S ₂ -2	11	Y160M ₂ -2	14	9	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4				
	D	22	30							12	7	1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4				
40-250	A	36	85	22	Y180M-2	30	Y200L ₂ -2	45	Y225M-2	20	21	4	Y112M-4	5.5	Y132S-4	5.5	Y132S-4				
	B	34	80	18.5	Y160L-2	22	Y180M-2	37	Y200L ₂ -2	18	20					3	Y100L ₂ -4	4	Y112M-4	5.5	Y132S-4
	C	30	65	15	Y160M ₂ -2	18.5	Y160L-2	30	Y200L ₂ -2	16	15	2.2	Y100L ₂ -4	3	Y100L ₂ -4	4	Y112M-4				
	D	26	50	11	Y160M ₂ -2	15	Y160M ₂ -2	18.5	Y160L-2	13	12	2.2	Y100L ₂ -4	2.2	Y100L ₂ -4	2.2	Y100L ₂ -4				
40-315	A	46	140	45	Y225M-2	55	Y250M-2			22	36	11	Y160M-4	11	Y160M-4	11	Y160M-4				
	B	44	130	37	Y200L ₂ -2	45	Y225M-2			22	32					5.5	Y132S-4	5.5	Y132S-4	11	Y160M-4
	C	40	100	30	Y200L ₂ -2	37	Y200L ₂ -2	37	Y200L ₂ -2	20	24	4	Y112M-4	4	Y112M-4	5.5	Y132S-4				
	D	34	80			30	Y200L ₂ -2	37	Y200L ₂ -2	18	18	4	Y112M-4	4	Y112M-4	5.5	Y132S-4				
50-160	A	55	34	11	Y160M ₂ -2					30	8	1.5	Y90L-4	2.2	Y100L ₂ -4	3	Y100L ₂ -4				
	B	50	30	7.5	Y132S ₂ -2	11	Y160M ₂ -2	15	Y160L ₂ -2	26	7					1.5	Y90L-4	1.5	Y90L-4	22	Y100L ₂ -4
	C	46	26	5.5	Y132S ₂ -2	7.5	Y132S ₂ -2	11	Y160M ₂ -2	24	6	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4				
	D	40	18			5.5	Y132S ₂ -2	7.5	Y132S ₂ -2	20	4	1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4				
50-200	A	65	56	18.5	Y160L-2					14	3	3	Y100L ₂ -4	4	Y112M-4	5.5	Y132S-4				
	B	65	50	15	Y160M ₂ -2	18.5	Y160L-2			34	12					2.2	Y100L ₂ -4	3	Y100L ₂ -4	4	Y112M-4
	C	50	40	11	Y160M ₂ -2	15	Y160M ₂ -2	18.5	Y160L-2	30	10	1.5	Y90L-4	2.2	Y100L ₂ -4	3	Y100L ₂ -4				
	D	40	32	7.5	Y132S ₂ -2	11	Y160M ₂ -2	15	Y160M ₂ -2	24	7	1.5	Y90L-4	1.5	Y90L-4	2.2	Y100L ₂ -4				
50-250	A	65	85	30	Y232L ₁ -2	37	Y200L ₂ -2	45	Y225M-2	34	21	5.5	Y132S-4	5.5	Y132S-4	11	Y160M-4				
	B	60	80					45	Y225M-2	30	20					4	Y112M-4	4	Y112M-4	11	Y160M-4
	C	55	65	22	Y180M-2	30	Y200L ₂ -2	37	Y200L ₂ -2	26	16	3	Y100L ₂ -4	4	Y11M-4	5.5	Y132S-4				
	D	45	60	15	Y160M ₂ -2	15	Y160M ₂ -2	22	Y180M-2	24	12	2.2	Y100L ₂ -4	3	Y100L ₂ -4	4	Y112M-4				
50-315	A	80	140							42	36	11	Y160M-4	11	Y160M-4	15	Y160L-4				
	B	75	135	55	Y250M-2					42	32					11	Y160M-4	11	Y160M-4	11	Y160M-4
	C	70	110	45	Y225M-2					40	26					11	Y160M-4	11	Y160M-4	11	Y160M-4
	D	65	85	37	Y200L ₂ -2	45	Y225M-2			36	20					11	Y160M-4	11	Y160M-4	11	Y160M-4

SOC Table of Standard Performance

Type	Inlet SY.	Speed n=2900r/min								Speed n=1450r/min									
		Flow Q m ³ /h	Head H m	Proportion γ=1.0		Proportion γ=1.25		Proportion γ=1.85		Flow Q m ³ /h	Head H m	Proportion γ=1.0		Proportion γ=1.25		Proportion γ=1.85			
				Ppwer and Type(KW)								Ppwer and Type(KW)							
				kW		kW		kW				kW		kW		kW			
65-160	A	100	32	15	Y160M-2	18.5	Y160L-2		50	8	2.2	Y100L-4	3	Y100L-4	4	Y112M-4			
	B	90	32					22	Y180M-2	48			7						
	C	90	24	11	Y160M-2	15	Y160M-2	18.5	Y160L-2	46			6			2.2	Y100L-4	3	Y100L-4
	D	80	14	5.5	Y132S-2	7.5	Y132S-2	11	Y160M-2	38			4						
65-200	A	100	54	22	Y180M-2	30	Y200L-2	37	Y200L-2	50	13	4	Y112M-4	4	Y112M-4	5.5	Y132S-4		
	B	90	50							46	12	3	Y100L-4						
	C	90	40	18.5	Y160L-2	22	Y160L-2	30	Y200L-2	42	10			3	Y100L-4	4	Y112M-4		
	D	70	30	11	Y160M-2	15	Y160M-2	18.5	Y160L-2	36	7	2.2	Y100L-4	2.2	Y100L-4	3	Y100L-4		
65-250	A	115	85	45	Y225M-2	55	Y250M-2			54	21	11	Y160M-4	11	Y160M-4	11	Y160M-4		
	B	115	75							50	20	5.5	Y132S-4						
	C	100	65	37	Y200L-2	45	Y225M-2	55	Y250M-2	46	16	4	Y112M-4	5.5	Y132S-4				
	D	80	50	30	Y200L-2	30	Y200L-2	37	Y200L-2	40	10			4	Y112M-4	5.5	Y132S-4		
65-315	A	135	135	90	Y280M-2	110	Y315S-2	160	T315M-2	64	32	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
	B	130	125							61	30								
	C	115	115	75	Y280S-2	90	Y280M-2	132	Y315M-2	56	28					11	Y160M-4	15	Y160L-4
	D	110	110	55	Y250M-2	75	Y280S-2	110	Y315S-2	54	24								
	E	90	85	45	Y225M-2	55	Y250M-2	75	Y280S-2	50	20			5.5	Y132S-4			11	Y160M-4
	F	75	70	30	Y200L-2	45	Y225M-2	55	Y250M-2	52	16					5.5	Y132S-4		
80-160	A	170	30	22	Y180M-2	30	Y200L-2	37	Y200L-2	75	8	3	Y100L-4	4	Y112M-4	5.5	Y132S-4		
	B	160	26	18.5	Y160L-2	22	Y180M-2			70	7					3	Y100L-4	4	Y112M-4
	C	150	22	15	Y160M-2	18.5	Y160L-2		30	Y200L-2	70	5	2.2	Y100L-4					
	D	130	16	11	Y160M-2	15	Y160M-2	18.5	Y160L-2	65	4					2.2	Y100L-4	2.2	Y100L-4
80-200	A	150	50	37	Y200L-2	45	Y225M-2	55	Y250M-2	80	12	5.5	Y132S-4	11	Y160M-4	11	Y160M-4		
	B	140	46	30	Y200L-2	37	Y200L-2			75	11	4	Y112M-4	5.5	Y132S-4				
	C	130	38	22	Y180M-2	30	Y200L-2			65	9	3	Y100L-4	4	Y112M-4	5.5	Y132S-4		
	D	110	26	15	Y160M-2	18.5	Y160L-2	30	Y200L-2	60	6					3	Y100L-4	4	Y112M-4
80-250	A	190	80							90	20	11	Y160M-4	11	Y160M-4	15	Y160L-4		
	B	180	75	55	Y250M-2					90	19								
	C	170	70	45	Y225M-2					85	17								
	D	150	55	37	Y200L-2	55	Y250M-2	75	Y280S-2	75	14			5.5	Y132S-4			11	Y160M-4
	E	130	47	30	Y200L-2	37	Y200L-2	55	Y250M-2	70	11							5.5	Y132S-4
80-315	A	200	130	110	Y315S-2	160	Y315M-2			100	32	15	Y160L-4	18.5	Y180M-4	30	Y200L-4		
	B	180	125			132	Y315M-2				95							30	
	C	160	100	75	Y280S-2	90	Y280M-2	132	Y315M-2	85	24					15	Y160L-4	18.5	Y180M-4
	D	150	75	55	Y280S-2	75	Y280S-2	90	Y280M-2	70	18							15	Y160L-4
80-400	A									105	52	30	Y200L-4	37	Y225S-4				
	B									100	50								
	C									90	44					30	Y200L-4		
	D									80	38			18.5	Y180M-4	18.5	Y180M-4	30	Y200L-4
	E									75	30								
100-200	A	220	45	45	Y250M-2	55	Y250M-2			115	11	5.5	Y132S-4	11	Y160M-4	11	Y160M-4		
	B	200	40	30	Y225M-2	45	Y225M-2	55	Y250M-2	100	10								
	C	180	30	22	Y180M-2	30	Y200L-2	45	Y225M-2	90	8					5.5	Y132S-4	5.5	Y132S-4
	D	150	25								37			Y200L-2	80				

SOC Table of Standard Performance

Type	Type SY	Speed n=2900r/min										Speed n=1450r/min									
		Flow Q m³/h	Head H m	Proportion $\gamma=1.0$		Proportion $\gamma=1.25$		Proportion $\gamma=1.85$		Flow Q m³/h	Head H m	Proportion $\gamma=1.0$		Proportion $\gamma=1.25$		Proportion $\gamma=1.85$					
				Ppwer and Type(KW)								Ppwer and Type(KW)									
				kW		kW		kW				kW		kW		kW					
100-250	A	280	75	90	Y280M-2	110	Y315S-2	160	Y315M ₂ -2	130	20	15	Y160L-4	30	Y200L-4	30	Y200L-4				
	B	250	70	75	Y280S-2			132	Y315M ₂ -2	130	18		15	Y160L-4							
	C	230	55	55	Y250M-2	75	Y280S-2	110	Y315S-2	120	14	11	Y160M-4			15	Y180L-4				
	D	200	40	37	Y200L ₂ -2	55	Y250M-2	75	Y280S-2	100	10		11			11	Y160M-4				
100-315	A	270	135	160	Y315M ₂ -2					132	32	30	Y200L-4								
	B	250	130	132	Y315M-2					120	30	18.5	Y180M-4	30	Y200L-4						
	C	230	100	110	Y315S-2	132	Y315M ₂ -2			100	26					30	Y200L-4				
	D	200	85	75	Y280S-2	110	Y315S-2	132	Y315M ₂ -2	90	21	15	Y160L-4	15	Y160L-4	18.5	Y180M-4				
100-400	A									150	50	45	Y225M-4								
	B									140	48			45	Y225M-4						
	C									120	40	30	Y200L-4			45	Y225M-4				
	D									100	30	18.5	Y180M-4	30	Y200L-4	30	Y200L-4				
125-250	A									200	20	18.5	Y180M-4	22	Y180L-4						
	B									200	18	15	Y160L-4	18.5	Y180M-4						
	C									190	14			15	Y160M-4						
	D									160	10	11	Y180M-4	11	Y160M-4	15	Y180L-4				
125-315	A									200	30			37	Y225S-4	45	Y225M-4				
	B									180	30	30	Y200L-4			37	Y225S-4				
	C									170	24	18.5	Y180M-4	30	Y200L-4						
	D									100	18	15	Y160L-4	18.5	Y180M-4	30	Y200L-4				
125-400	A									220	50	55	Y250M-4	75	Y280S-4						
	B									200	48	45	Y225M-4	75	Y280S-4						
	C									180	46	37	Y225S-4	55	Y250M-4						
	D									170	42			45	Y225M-4						
	E									150	36	30	Y200L-4								
	F									150	30			30	Y200L-4						
150-250	A									320	17	22	Y180L-4								
	B									300	15			30	Y200L-4	37	Y225S-4				
	C									280	13	110	Y180M-4								
	D									260	12	15	Y160L-4	18.5	Y180M-4	30	Y200L-4				
	E									240	11	11	Y160M-4	15	Y160L-4	22	Y180L-4				
150-315	A									380	30	45	Y225M-4	75	Y280S-4						
	B									340	26	37	Y225S-4	45	Y225M-4						
	C									320	20	30	Y200L-4	37	Y225S-4	55	Y250M-4				
	D									300	17	22	Y180L-4	30	Y220L-4	37	Y225S-4				
150-400	A									400	48	75	Y280S-4	110	Y315S-4						
	B									340	40	55	Y250M-4								
	C									300	34	45	Y225M-4	75	Y280S-4	90	Y280S-4				
	D									260	28	37	Y225S-4	45	Y225M-4	75	Y280M-4				
150-500	A									420	80	132	Y315M ₂ -4								
	B									400	70			160	Y315M ₂ -4						
	C									360	65	110	Y315S-4	130	Y315M ₂ -4						
	D									340	50	75	Y280S-4	110	Y315S-4	132	Y315M ₂ -4				
	E									300	45	55	Y225M-4	75	Y280S-4	110	Y315S-4				

SOC Table of Standard Performance

Type	Inlet SY.	Speed n=2900r/min								Speed n=1450r/min							
		Flow Q m ³ /h	Head H m	Proportion $\gamma=1.0$		Proportion $\gamma=1.25$		Proportion $\gamma=1.85$		Flow Q m ³ /h	Head H m	Proportion $\gamma=1.0$		Proportion $\gamma=1.25$		Proportion $\gamma=1.85$	
				Ppwer and Type(KW)								Ppwer and Type(KW)					
				kW		kW		kW				kW		kW		kW	
200-250	A								600	12	30	Y200L-4	37	Y225S-4			
	B								540	11	22	Y180L-4	30	Y200L-4			
	C								500	10					37	Y225S-4	
200-315	A								650	24	55	Y250M-4	75	Y280S-4			
	B								600	20							
	C								550	16	37	Y225S-4	45	Y225M-4			
	D								500	13	30	Y200L-4	37	Y225S-4	55	Y250M-4	
200-400	A								650	52	132	Y315M ₁ -4					
	B								550	45	90	Y280M-4	132	Y315M ₁ -4			
	C								500	40	75	Y280S-4	110	Y315S-4	160	Y315M ₂ -4	
	D								450	30	55	Y250M-4	75	Y280S-4	110	Y315S-4	
200-500	A								700	75							
	B								650	65	160	Y315M ₂ -4					
	C								550	55	110	Y250M-4	160	Y315M ₂ -4			
	D								450	40	75	Y280S-4	110	Y315S-4	132	Y315M ₁ -4	
250-315	A								950	22	75	Y280S-4	110	Y315S-4			
	B								900	20			90	Y280M-4			
	C								800	16	55	Y250M-4	75	Y280S-4			
	D																
250-400	A								1000	44	160	Y315M ₂ -4					
	B								900	38	132	Y315M ₁ -4					
	C								850	30	110	Y315S-4	160	Y315M ₂ -4			
	D								800	24	90	Y280M-4	110	Y315S-4	160	Y315M ₂ -4	
250-500	A								1200	80							
	B								1100	70							
	C								1000	55							
	D								850	45	160	Y315M ₂ -4					
300-400	A								1500	40							
	B								1400	30	160	Y315M ₂ -4					
	C								1300	25	132	Y315M ₁ -4					
	D								1300	20	110	Y315S-4	160	Y315M ₂ -4			
300-500	A								1700	70							
	B								1500	60							
	C								1300	50							
	D								1100	40							



Pumps & Systems



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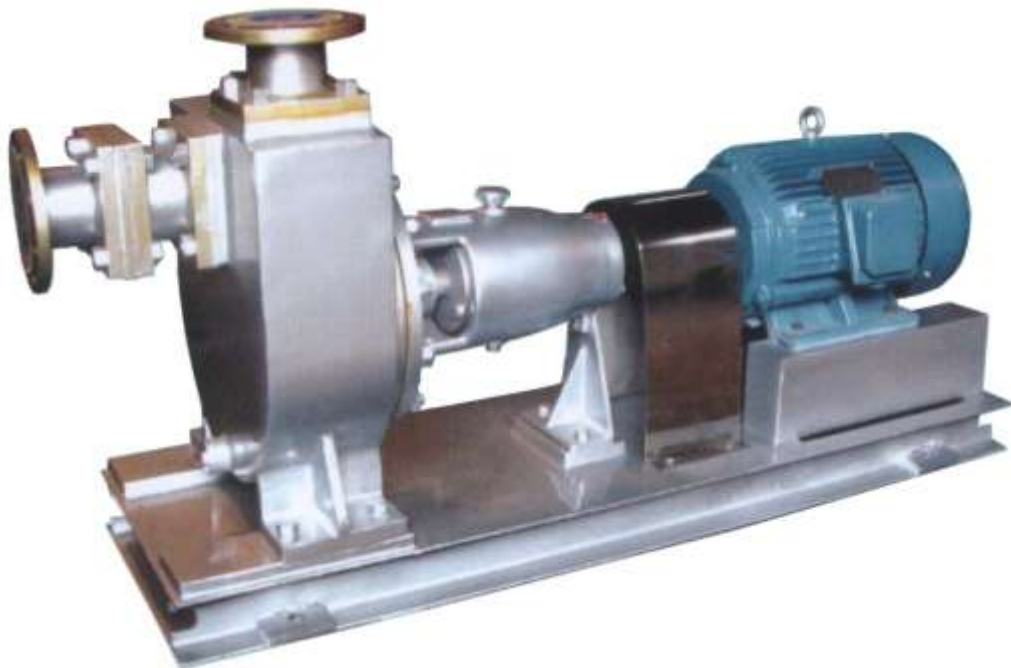


Pumps & Systems

+

SOZ

Self-priming Sewage Pump



Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

General

SOZ serial horizontal self-priming pumps (single-stage, single-suction , overhung centrifugal pumps) are manufactured by our R&D Department independently according to standard EN ISO 5199:2002.

They have lots of advantages such as high self-priming capability, high reliability, long life , steady work, good cavitations and high efficiency.

Performance Range

Pressure: Max.2.5MPa
 Head: Max.160m
 Temperature: -30 °C-+180 °C
 Self Priming: 7-9m

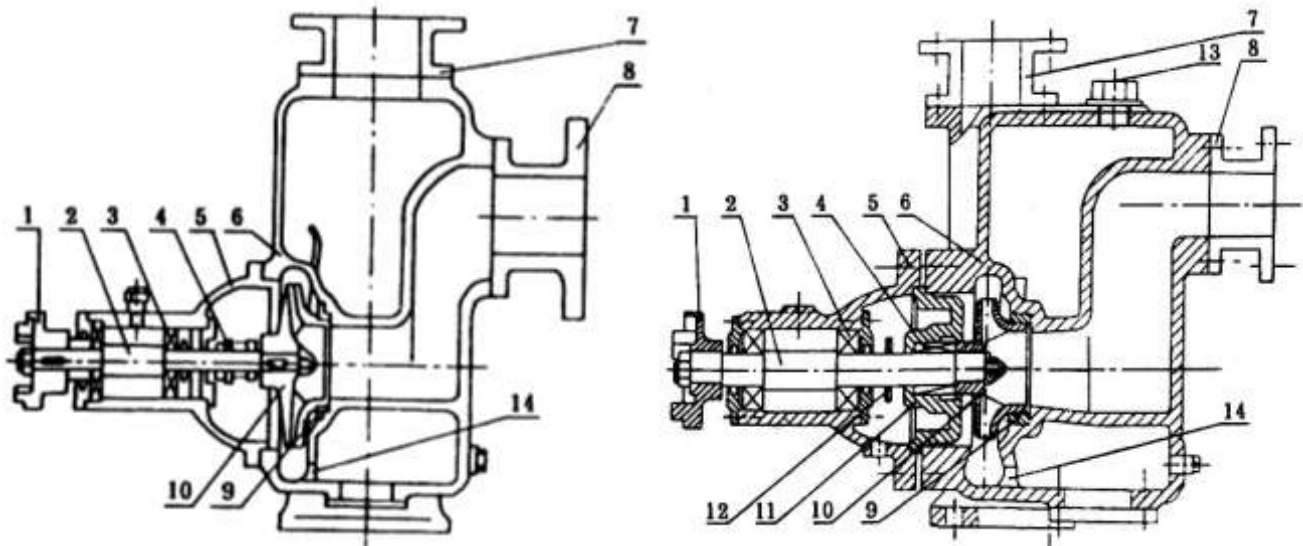
Application

Self Priming
 Gas Containing Liquid
 Foam Containing Liquid
 Grain Containing Liquid

Structure

The upper exhaust passage at center of pump body can prevent air block. A double volute casing in larger SOZ serial pumps reduces radial forces and shaft deflection . Gap dimension between impeller and wearing plate can be adjusted from outside in order to retain constant gap dimension and to maintain continuous high efficiency of pump operation . Open impeller, close impeller or special open impeller can be selected depend on different operation conditions . Impeller is fixed with rotor key in order to obtain a reliable and stable operation . Rotor key is self-locking and reverse rotation safe and enables an easy and quick dismantling and assembly of impeller.

Configuration Drawing

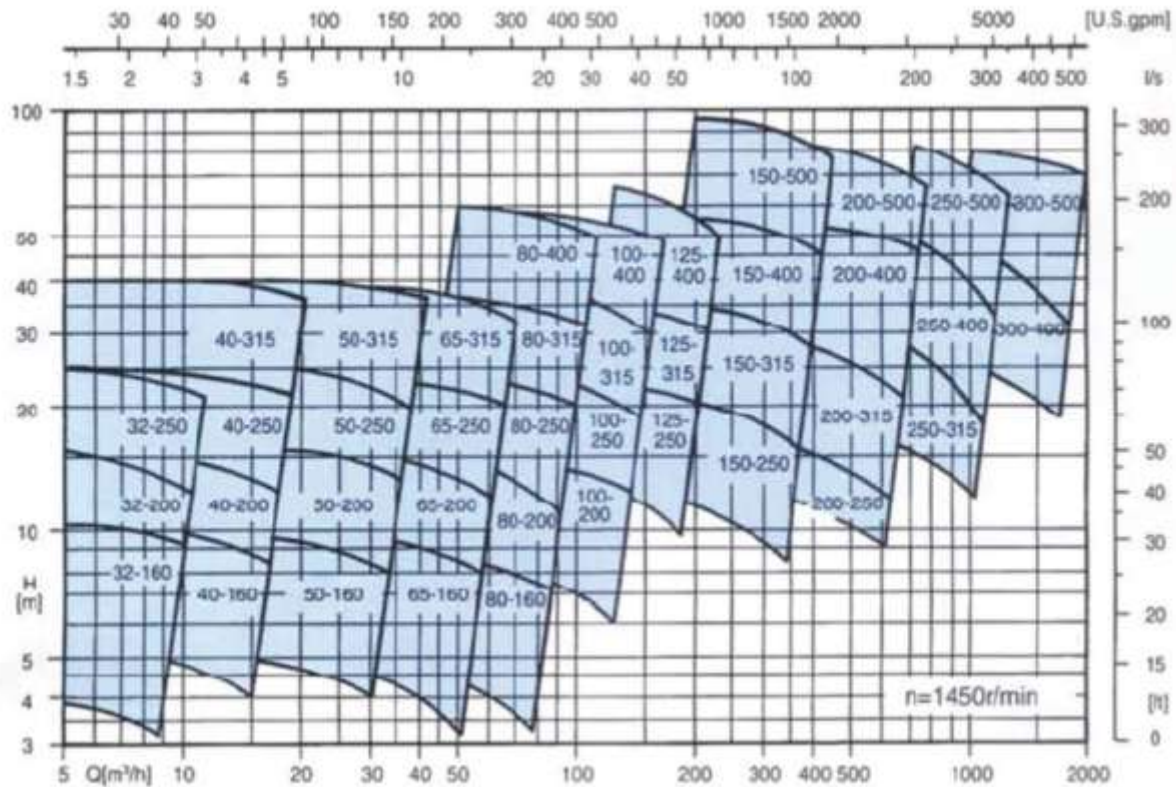
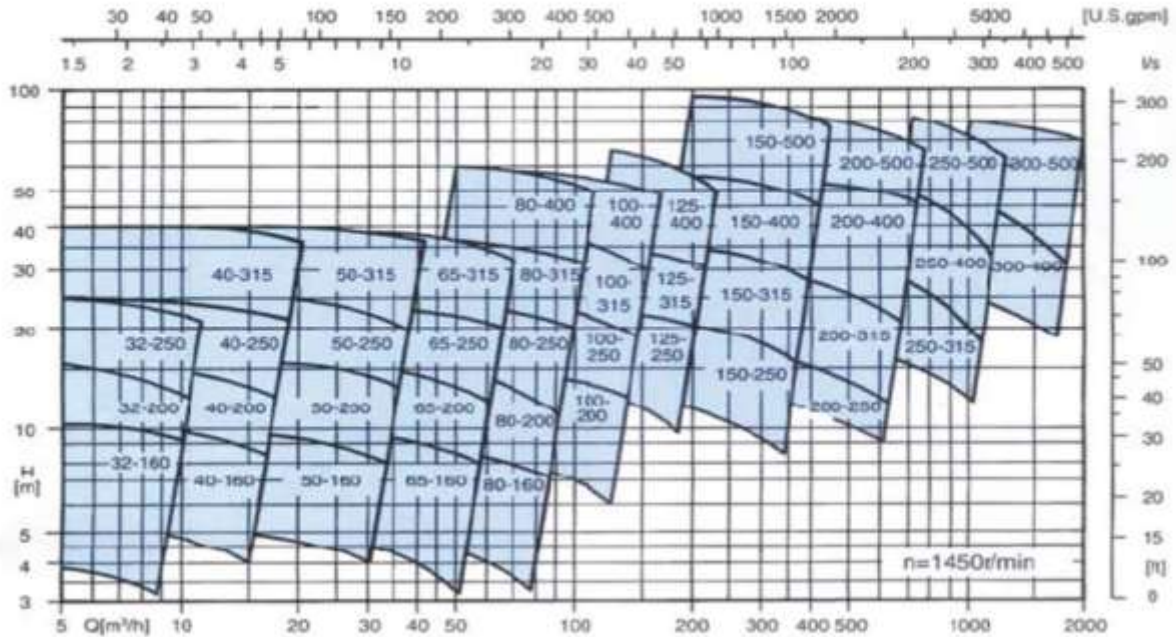


- | | |
|--------------------|---------------------------|
| 1. Coupling | 8. Suction Seat |
| 2. Pump Shaft | 9. Front Wear Ring |
| 3. Bearing | 10. Impeller |
| 4. Mechanical Seal | 11. Back Cover |
| 5. Bearing Body | 12. Deflector |
| 6. Pump Cover | 13. Liquid Adding Hole |
| 7. Discharge Seat | 14. Liquid Returning Hole |

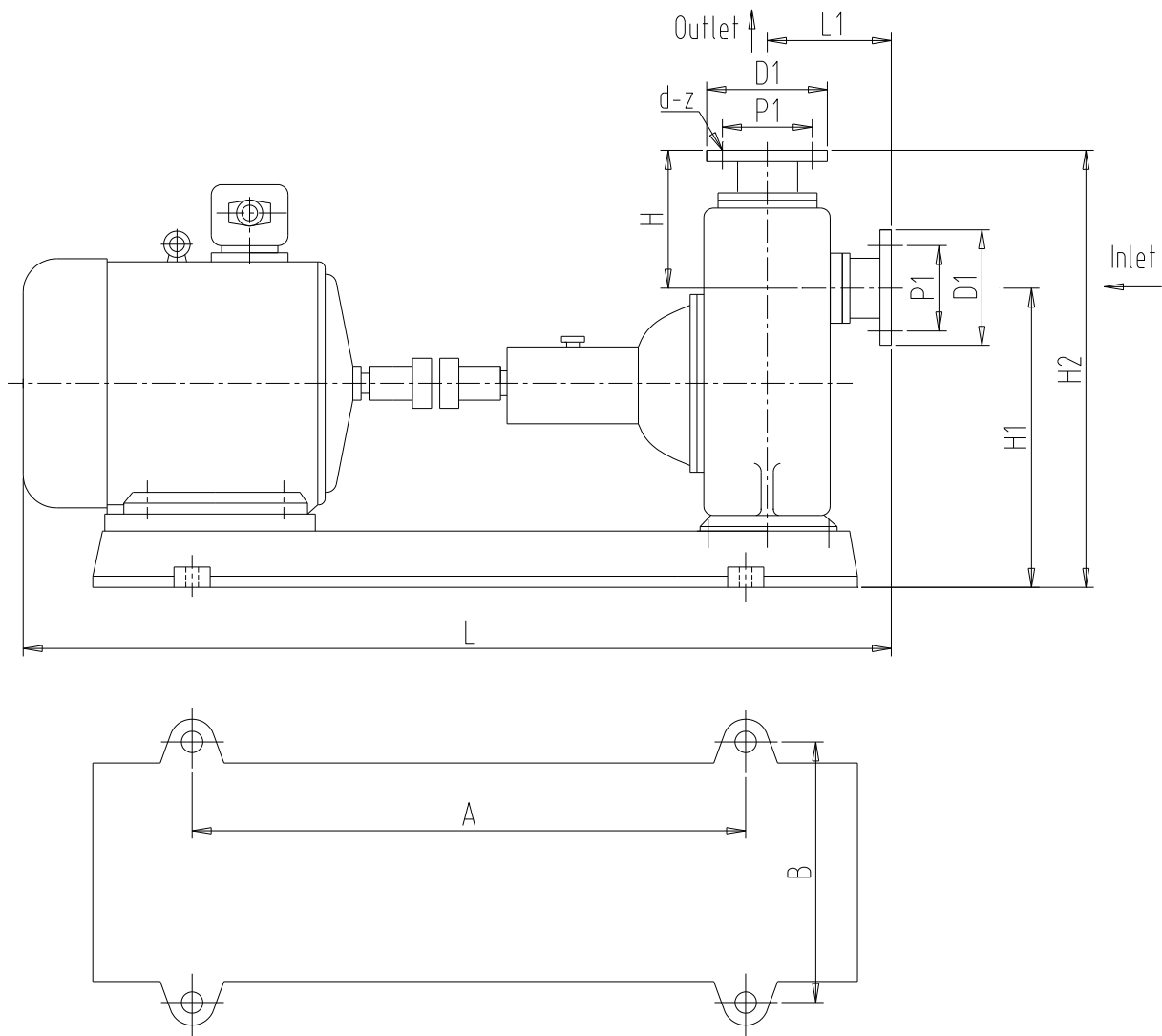
Performance Data

Model	Capacity (m ³ /h)	Head (m)	Speed (r/min)	NPSHr (m)	Suc.Time (min/5m)	Motor Power (KW)
SOZ32-25-160	3.2	32	2900	3.5	2.0	1.5
SOZ32-32-160	3.2	32	2900	3.5	2.0	1.5
SOZ32-32-200	6.3	50	2900	3.5	2.0	3
SOZ40-32-160	6.3	32	2900	3.5	2.0	2.2
SOZ40-40-125	6.3	20	2900	3.5	2.0	1.1
SOZ40-32-200	6.3	50	2900	3.5	2.0	3
SOZ40-40-200	6.3	50	2900	3.5	2.0	3
SOZ50-50-125	15	12	2900	3.5	2.0	1.5
SOZ50-50-140	18	20	2900	3.5	2.5	2.2
SOZ50-50-160	12.5	32	2900	3.5	2.5	3
SOZ50-50-180	10	40	2900	3.5	1.5	4
SOZ50-50-200	12.5	50	2900	3.5	1.5	5.5
SOZ50-50-230	15	60	2900	3.5	1.5	7.5
SOZ50-50-250	15	75	2900	3.5	2.5	11
SOZ65-50-125	30	15	2900	3.5	2.0	3
SOZ65-50-160	25	32	2900	3.5	2.0	5.5
SOZ65-50-200	25	50	2900	3.5	2.5	7.5
SOZ65-50-250	25	60	2900	3.5	2.5	11
SOZ80-65-120	35	13	2900	4.0	3.5	3
SOZ80-65-125	50	20	2900	4.0	2.0	5.5
SOZ80-65-160	50	32	2900	4.0	2.5	7.5
SOZ80-65-200	60	55	2900	4.0	2.0	18.5
SOZ80-65-250	60	70	2900	4.0	1.5	22
SOZ100-80-125	100	20	2900	4.0	2.5	11
SOZ100-80-160	100	32	2900	4.0	2.0	15
SOZ100-80-180	100	40	2900	4.0	2.0	22
SOZ100-80-200	100	65	2900	4.0	2.0	30
SOZ100-80-250	70	80	2900	4.0	2.0	30
SOZ150-100-125	160	55	2900	4.0	2.0	45
SOZ150-100-160	150	80	2900	5.0	2.0	55

Performance Curve of SOZ Self-priming Pump



Installation Drawings & Dimensions

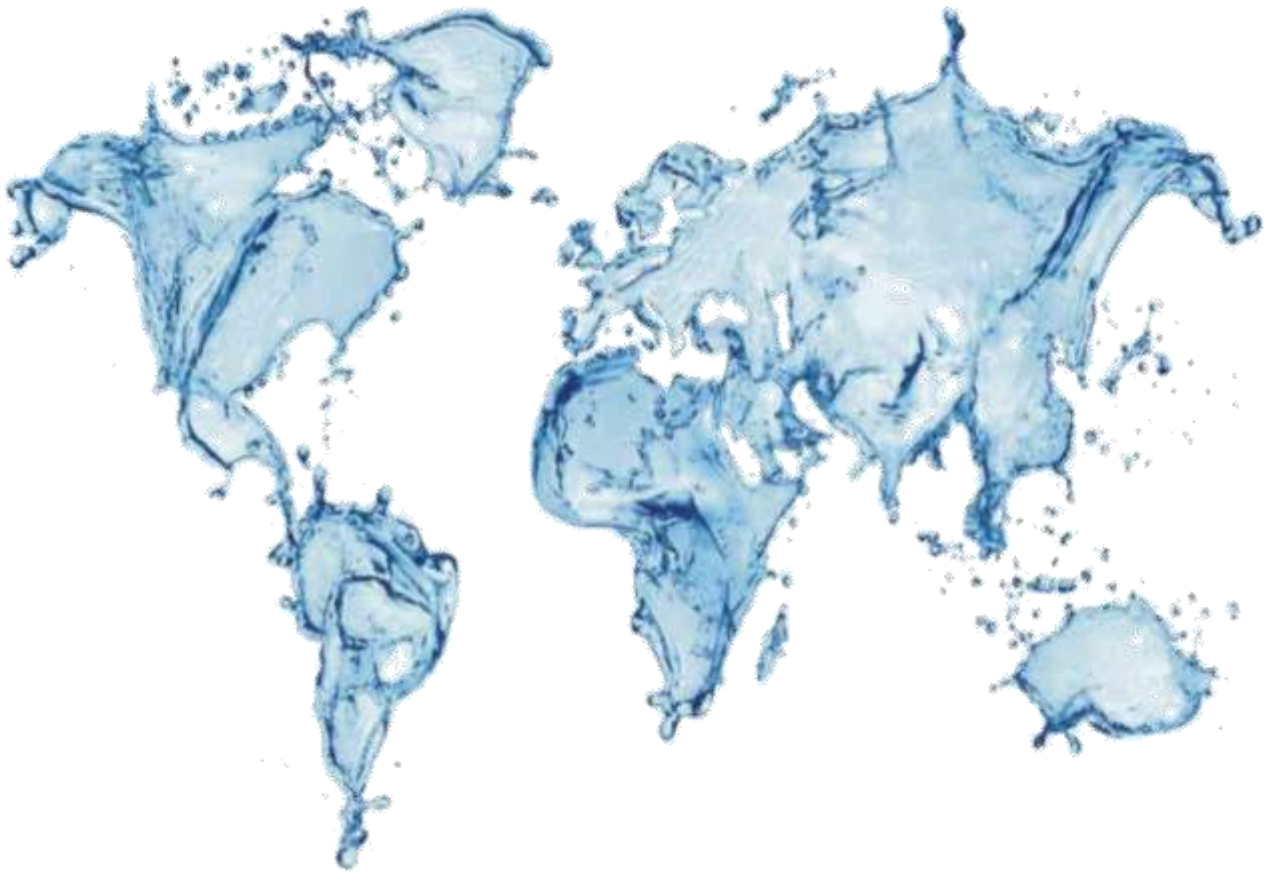


Installation Dimensions

Model	Suc.Flange Dimensions			Dis.Flange Dimensions			Hole Distance AxB	Hole Dia. X No. of Holes	Central Distance				
	D ₁	P ₁	d-z	D ₁	P ₁	d-z			H	H ₁	H ₂	L	L ₁
SOZ32-25-160	120	90	14-4	120	90	14-4	360X340	16X4	145	310	465	720	135
SOZ32-32-160	120	90	14-4	120	90	14-4	360X340	16X4	145	310	465	720	135
SOZ32-32-200	130	100	14-4	130	100	14-4	400X330	18X4	170	340	480	820	140
SOZ40-32-160	120	90	14-4	120	90	14-4	360X340	16X4	145	310	465	720	135
SOZ40-40-200	130	100	14-4	130	100	14-4	360X280	16X4	140	310	435	760	135
SOZ40-32-200	130	100	14-4	120	90	14-4	400X330	18X4	170	340	480	820	140
SOZ40-40-125	130	100	14-4	130	100	14-4	400X330	18X4	150	340	480	820	140
SOZ50-50-125	140	110	14-4	140	110	14-4	400X280	16X4	145	315	450	750	130
SOZ50-50-140	140	110	14-4	140	110	14-4	400X280	16X4	145	305	436	730	132
SOZ50-50-160	140	110	14-4	140	110	14-4	400X330	18X4	150	340	480	820	140
SOZ50-50-180	140	110	14-4	140	110	14-4	460X360	18X4	150	370	460	840	135
SOZ50-50-200	140	110	14-4	140	110	14-4	460X380	18X4	150	365	510	920	140
SOZ50-50-230	160	125	18-4	160	125	18-4	500X360	18X4	170	410	580	1000	165
SOZ50-50-250	160	125	18-4	160	125	18-4	640X430	18X4	180	440	640	1200	165
SOZ65-50-125	160	130	18-4	140	110	14-4	480X360	16X4	130	330	420	810	140
SOZ65-50-160	160	130	18-4	140	110	14-4	460X380	18X4	160	370	510	930	145
SOZ65-50-200	160	130	18-4	140	110	14-4	460X380	18X4	165	395	540	940	145
SOZ65-50-250	185	145	18-4	160	125	18-4	640X430	18X4	180	420	600	1200	170
SOZ80-65-120	185	150	18-4	160	130	14-4	480X360	16X4	145	340	420	735	145
SOZ80-65-125	185	150	18-4	160	130	14-4	460X380	18X4	160	375	530	950	150
SOZ80-65-160	185	150	18-4	160	130	14-4	460X380	18X4	175	400	550	950	150
SOZ80-65-200	195	160	18-4	185	145	18-4	700X450	18X4	185	460	640	1270	185
SOZ80-65-250	195	160	18-4	185	145	18-4	700X450	18X4	190	480	670	1300	185
SOZ100-80-125	205	170	18-4	185	150	18-4	600X415	18X4	170	420	590	1150	180
SOZ100-80-160	205	170	18-4	185	150	18-4	600X415	18X4	180	440	620	1130	180
SOZ100-80-180	205	170	18-4	185	150	18-4	700X460	18X4	190	470	660	1350	195
SOZ100-80-200	215	180	18-8	195	160	18-8	780X520	18X4	190	520	710	1445	195
SOZ100-80-250	215	180	18-8	195	160	18-8	780X520	18X4	195	525	720	1150	200
SOZ150-100-125	260	225	18-8	215	180	18-8	800X550	18X4	220	550	765	1165	300
SOZ150-100-160	260	225	18-8	215	180	18-8	900X600	18X4	170	665	820	1174	300
SOZ200-150-450	315	280	18-8	260	225	18-8	1000X750	18X4	220	780	970	1220	400



Pumps & Systems



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Pumps & Systems



SOBG

Series high temperature asphalt pump



Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

● Structure and Properties

SOBG Series high temperature asphalt pump is horizontal, single-stage, center support, single suction cantilever type centrifugal pump, the pump body or end cover is equipped with thermal insulation coating, which used steam and conduction oil to heat the conveying liquids and keep heat preservation. This series of pumps make the careful consideration and design in the structures of support, heat preservation, bearing housing and shaft seal cooling. And it can be equipped with all sorts of auxiliary and monitoring system, which makes this series of pump products of high safety and reliability.

SOBG Series high temperature asphalt pump suitable for conveying the chemically neutral, or corrosive, clean (or contain a small amount of particles) heavy oil, asphalt and other media under 450 °C.

SOBG series high-temperature asphalt pump has excellent hydraulic performance, holds the advantage of high efficiency and low noise, which is a new generation of high efficiency and energy saving products.

● Application Range

Asphalt pump is widely used in petroleum, chemical fiber, metallurgy, machinery, electricity, machine tools, shipbuilding, glass, roads and all walks of life.

Asphalt pump is applicable for conveying asphalt, fuel oil, lubricating oil, hydraulic oil, crude oil, and other similar high temperature liquid.

● Performance Range

Temperature: ~+450°C

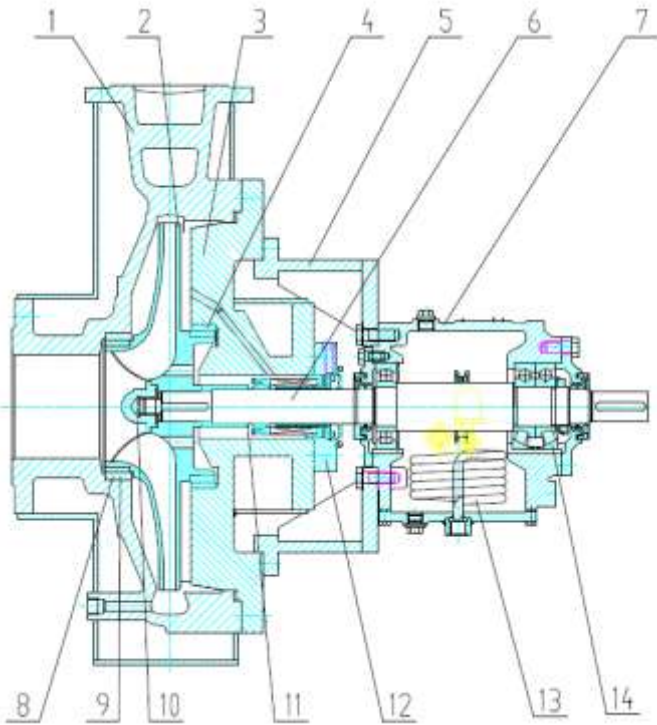
Pressure: ~135bar

Flow: ~2600 m³/h

Head of delivery: ~300m

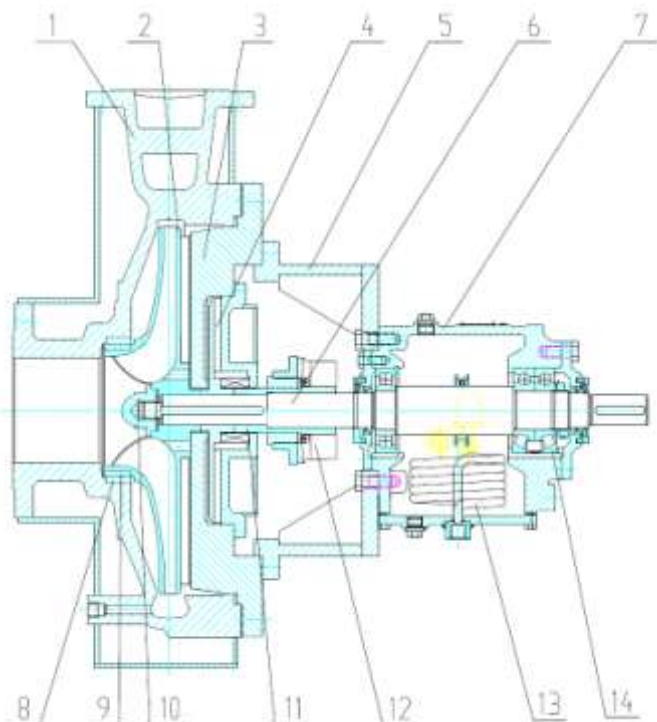


SOBG Section drawing (Proposal I)



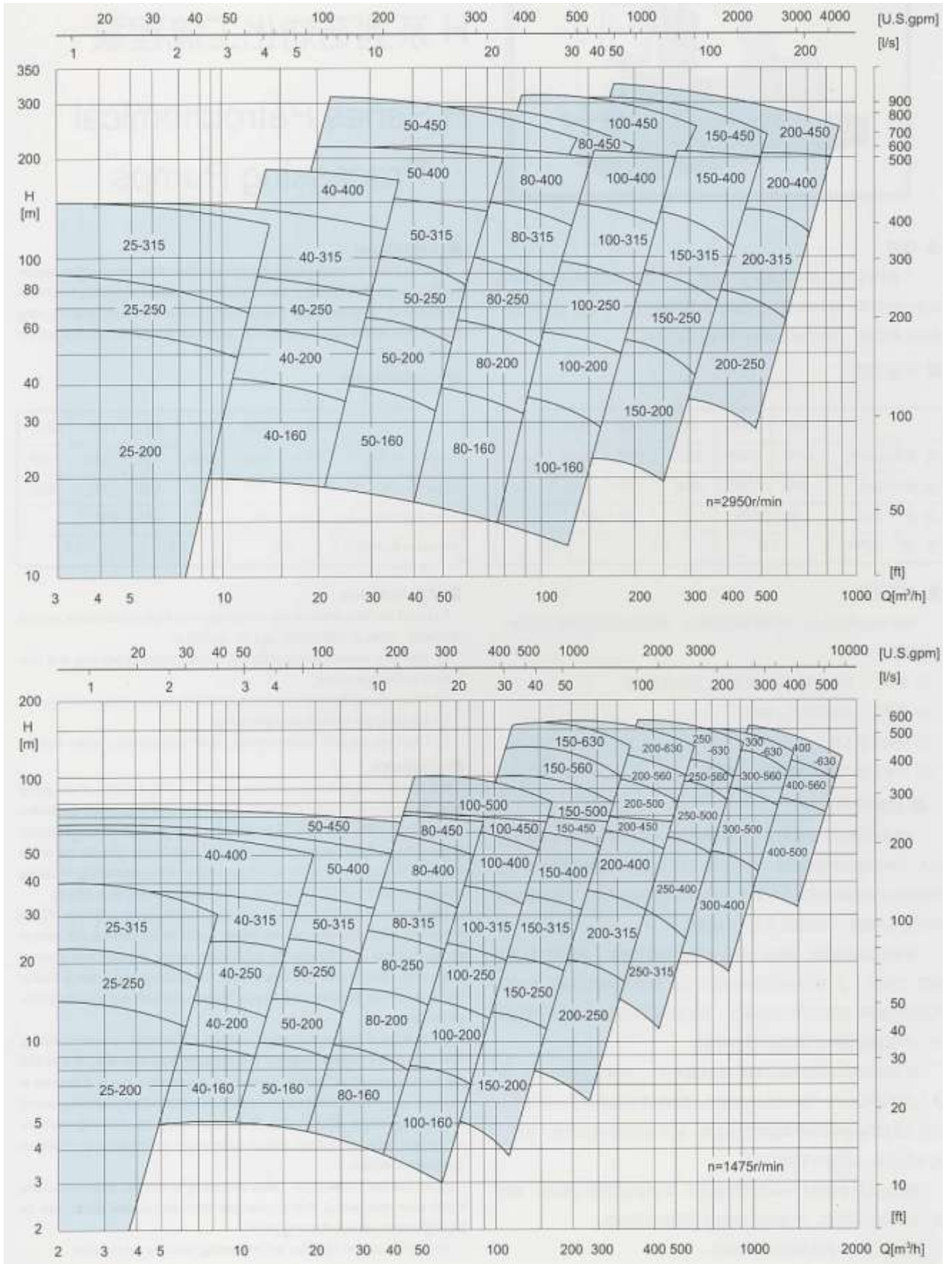
1	Pump casing
2	Impeller
3	Pump cover
4	Casing wear ring
5	Connector
6	Shaft
7	Bearing house
8	Casing wear ring
9	Impeller
10	Impeller nut
11	Shaft sleeve
12	Mechanical seal
13	Cooling pipe
14	Bearing

SOBG Section drawing (Proposal II)

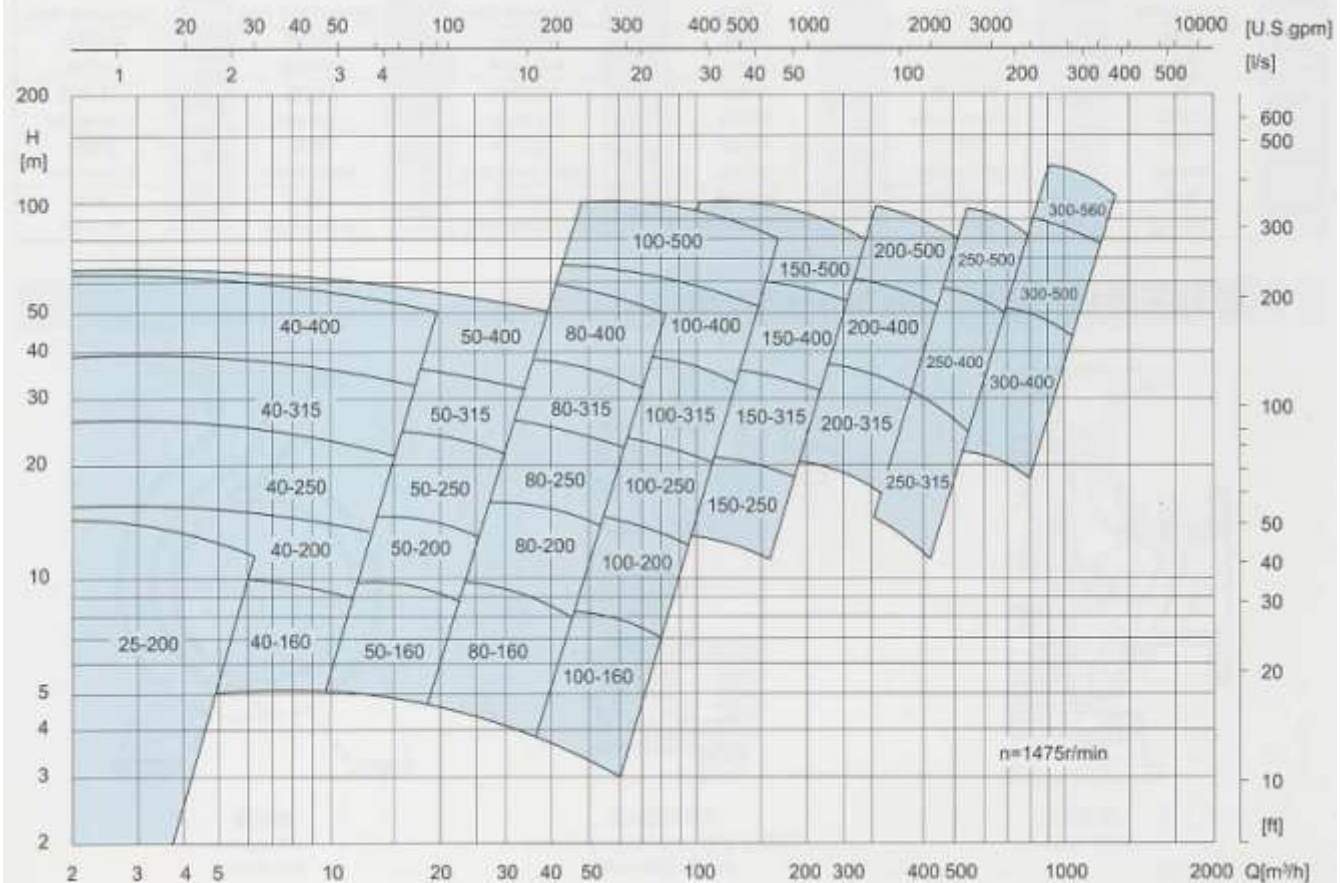
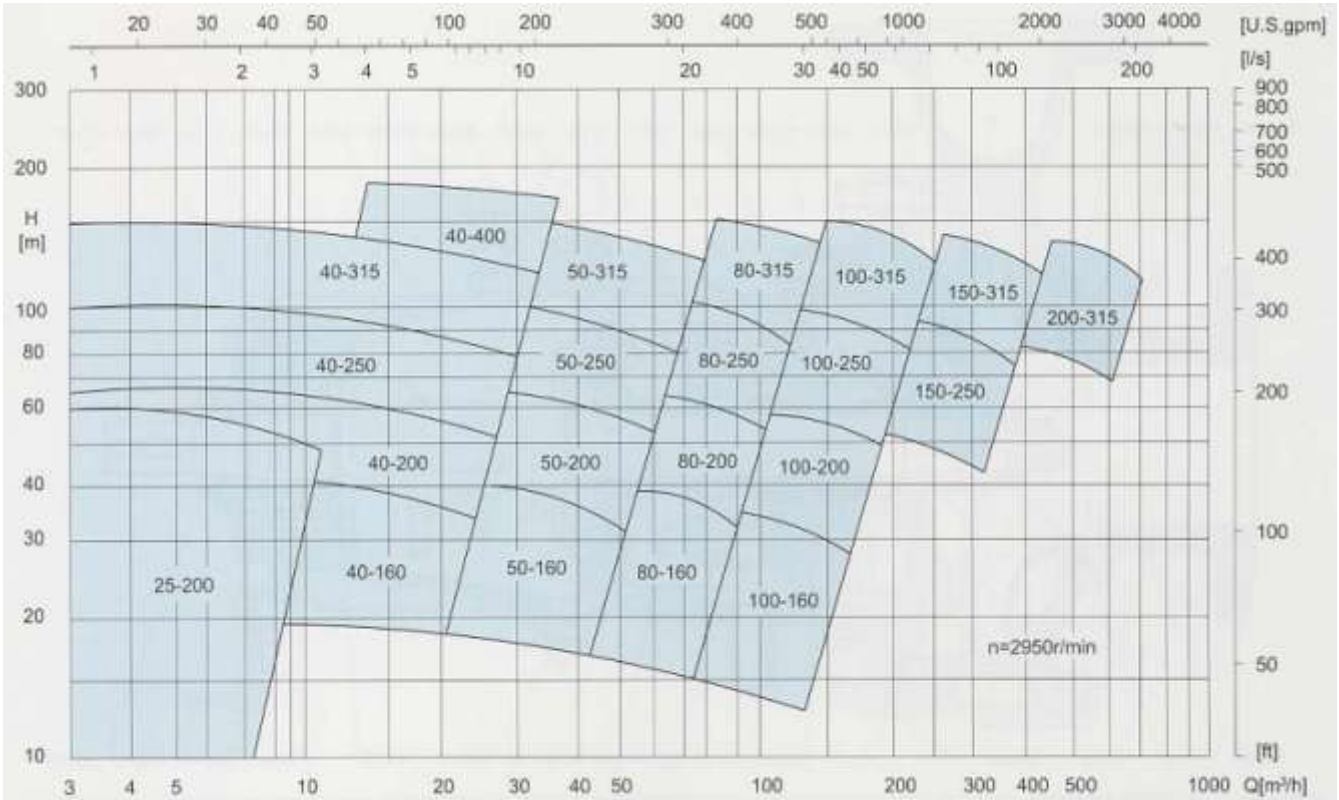


1	Pump casing
2	Impeller
3	Pump cover
4	Auxiliary impeller
5	connector
6	Shaft
7	Bearing
8	Casing wear ring
9	Impeller wear ring
10	Impeller nut
11	Shaft sleeve
12	Dynamic seal
13	Cooling pipe
14	Bearing

SOBG Range of performance



SOBG Range of performance



SOBG Table of standard performance

Type	SY	Q m ³ /h	H m	Speed 2950r/min								Speed 1475r/min							
				Proportion1.0		Proportion1.35		Proportion1.84		Q m ³ /h	H m	Proportion1.0		Proportion1.35		Proportion1.84			
				Power and Type								Power and Type							
80-160	A	100	30	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	50	8	2.2	Y100L2-4	3	Y100L2-4	4	Y112M-4		
	B	90	27	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	45	6.5	2.2	Y100L1-4	3	Y100L2-4				
	C	80	22			11	Y160M1-2	15	Y160M2-2	40	5.5	1.5	Y90L-4	1.1	Y90S-4	2.2	Y100L1-4		
	D	70	18	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	30	4.5	1.1	Y90S-4			1.5	Y90L1-4		
80-200	A	100	54	30	Y200L1-2	37	Y200L2-2	55	Y250M1-2	50	13	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	B	90	48	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	46	12.5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
	C	80	38	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	40	9.5	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4		
	D	70	29	11	Y160M1-2	15	Y160M2-2	22	Y180M2-2	36	7	1.5	Y90L2-4	2.2	Y100L1-4	3	Y100L2-4		
80-250	A	120	80	45	Y225M-2	75	Y280S-2	90	Y280M-2	60	20	7.5	Y132M-4	11	Y160M-4	15	Y160L-4		
	B	115	72			55	Y250M-2	75	Y280S-2	57	18			7.5	Y132M-4	11	Y160M-4		
	C	105	55	30	Y200L1-2	45	Y225M-2	55	Y250M-2	50	14	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	D	85	42	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	42	10	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
80-315	A	130	120	90	Y280M-2	110	Y315S-2	185		85	30	15	Y160L-4	18.5	Y180M-4	22	Y180L-4		
	B	125	112	75	Y280S-4	90	Y280M-2			62	28	11	Y160M-4	15	Y160L-4				
	C	110	88	55	Y250M-2	75	Y280S-2			55	22		Y160M-4	15	Y160L-4				
	D	85	65	37	Y200L2-2	45	Y225M-2	75	Y280S-2	42	16	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
80-400	A	160	168	160	Y315M2-2	160	Y315M2-2	315		85	46	22	Y180L-4	30	Y200L-4	45	Y225M-4		
	B	150	145	132	Y315M1-2	160	Y315M2-2	220		80	41	18.5	Y180M-4			37	Y225S-4		
	C	135	125	110	Y315S-2	132	Y315M1-2	185		65	33	15	Y160L-4	18.5	Y180M-4	30	Y200L-4		
	D	125	105	90	Y280M-2	110	Y315S-2	160	Y315M2-2	52	24	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
	E	120	90	75	Y280S-2	110	Y315S-2	132	Y315M1-2										
80-450	A	200	229	350		450		630		103	60	37	Y225S-4	55	Y250M-4	75	Y280S-4		
	B	188	205	220		280		400		98	57	37	Y225S-4	45	Y225M-4	75	Y280S-4		
	C	178	188	185		250		355		83	47	30	Y200L-4	30	Y200L-4	45	Y225M-4		
	D	160	158	160	Y315M2-2	200		250		70	32	15	Y160L-4	22	Y180L-4	30	Y200L-4		
	E	142	128	110	Y315S-4	132	Y315M-4	180											
100-160	A	160	28	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	80	7	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
	B	150	24	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	72	5.5	2.2	Y100L1-2	3	Y100L2-4	4	Y112M-4		
	C	130	17	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	60	4	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4		
	D	100	13	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	50	3.5	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4		
100-200	A	170	49	45	Y225M-2	50	Y250M-2	75	Y280S-2	85	12	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
	B	160	43	37	Y200L2-2	45	Y225M-2			80	10.5								
	C	150	32	30	Y200L1-2	37	Y200L2-2	45	Y225M-2	75	8	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	D	130	24	18.5	Y160L-2	30	Y200L1-2	37	Y200L2-2	65	6	3	Y100L2-4	3	Y100L2-4	4	Y112M-4		
100-250	A	230	77	75	Y280S-2	90	Y280M-2	132	Y315M1-2	115	19	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
	B	220	70					110	17					11	Y160M-4	15	Y160L-4		
	C	190	55	45	Y225M-2	75	Y280S-4	90	Y280M-2	100	13	7.5	Y132M-4			11	Y160M-4		
	D	170	44	37	Y200L2-2	45	Y225M-2	75	Y280S-2	90	10	5.5	Y132S-4	7.5	Y132M-4	7.5	Y132M-4		
100-315	A	250	125	132	Y315M1-2	185		250		125	31	18.5	Y180M-4	30	Y200L-4	37	Y225S-4		
	B	235	117	132	Y315M1-2	160	Y315M2-2	220		120	29		Y180L-4	22	Y180L-4	30	Y200L-4		
	C	200	95	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	105	23	15	Y160L-4	18.5	Y180M-4	22	Y180L-4		
	D	165	70	75	Y280S-2	75	Y280S-2	110	Y315S-2	85	16	11	Y160M-4	11	Y160M-4	15	Y160L-4		
100-400	A	280	190	250		315		450		145	49	37	Y225S-4	45	Y225M-4	75	Y280S-4		
	B	260	170	200		280		355		135	47	37	Y225S-4			55	Y250M-4		
	C	240	150	160	Y315M2-2	220		315		120	36	22	Y180L-4	30	Y200L-4	45	Y225M-4		
	D	215	130	132	Y315M1-2	185		250		100	29	15	Y160L-4	22	Y180L-4	30	Y200L-4		
	E	205	110	110	Y315S-2	160	Y315M2-2	200											
100-450	A	330	258	380		560		710		167	64	55	Y250M-4	75	Y280S-4	110	Y315S-4		
	B	310	242	350		500		630		155	60	45	Y225M-4	75	Y280S-4	90	Y280M-4		
	C	280	200	250		315		450		132	50	37	Y225S-4	45	Y225M-4	75	Y280S-4		
	D	200	145	132	Y315M-2	185		250		102	37	22	Y180L-4	30	Y200L-4	37	Y225S-4		
100-500	A									175	76	75	Y280S-4	90	Y280M-4	132	Y315M1-4		
	B									165	72	75	Y280S-4	90	Y280M-4	110	Y315S-4		
	C									150	54	45	Y225M-4	75	Y280S-4	90	Y280M-4		
	D									125	42	30	Y200L-4	45	Y225M-4	55	Y250M-4		

SOBG Table of standard performance

Type	SY.	Speed 2950r/min		Speed 1475r/min															
		Q m ³ /h	H m	Proportion1.0		Proportion1.35		Proportion1.84			Q m ³ /h	H m	Proportion1.0		Proportion1.35		Proportion1.84		
				Power and Type	Power and Type	Power and Type	Power and Type	Power and Type	Power and Type	Power and Type			Power and Type	Power and Type					
150-200	A	300	45	55	Y250M-2	75	Y280S-2	110	Y315S-2	150	11.5	7.5	Y132M-4	11	Y160M-4	15	Y160L-4		
	B	280	40	45	Y225M-2			90	Y280M-2	140	9.5								
	C	260	30	37	Y200L2-2	45	Y225M-2	75	Y280S-2	130	7.5	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
	D	200	24	22	Y180M-2	30	Y200L1-2	45	Y225M-2	115	5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
150-250	A	380	74	110	Y315S-2	160	Y315M2-2	200		190	18	15	Y180L-4	22	Y180L-4	30	Y200L-4		
	B	350	60	90	Y280M-2	110	Y315S-2	160	Y315M2-2	180	15		18.5	Y180M-4	22	Y180L-4			
	C	300	48	75	Y280S-2	90	Y280M-2	110	Y315S-2	150	12	11	Y160M-4	11	Y160M-4	15	Y160L-4		
150-315	A	440	124	220		280		400		220	31	30	Y200L-4	45	Y225M-4	55	Y250M-4		
	B	420	115	185		250		355		210	29			37	Y225S-4				
	C	380	90	160	Y315M2-2	185		250		190	22	22	Y180L-4	30	Y200L-4	37	Y225S-4		
	D	340	65	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	170	16	15	Y160L-4	18.5	Y180M-4	22	Y180L-4		
150-400	A	500	190	380		560		710		160	50	55	Y250M-4	75	Y280S-4	90	Y280M-4	110	Y314S-4
	B	480	170	355		450		630		150	46					90	Y280M-4		
	C	460	148	280		400		500		220	38	37	Y225S-4	55	Y250M-4	75	Y280S-4		
	D	420	130	220		315		400		190	28	30	Y200L-4	37	Y225S-4	55	Y250M-4		
	E	400	110	185		250		355											
150-450	A	538	250	560		800		1120		270	64	75	Y250S-4	110	Y315S-4	160	Y315L1-4		
	B	490	230	500		710		900		260	62	75	Y250S-4	110	Y315S-4	132	Y315M-4		
	C	450	210	400		560		800		230	52	55	Y250M-4	75	Y280S-4	110	Y315S-4		
	D	390	175	315		400		560		170	36	22	Y180L-4	37	Y225S-4	55	Y250M-4		
	E	340	150	220		315		400											
150-500	A									300	75	110	Y315S-4	132	Y315M1-4	185			
	B									280	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-4		
	C									240	56	75	Y280S-4	90	Y280M-4	110	Y315S-4		
	D									200	44	45	Y225M-4	75	Y280S-4	75	Y208S-4		
150-560	A									300	97	160	Y315M2-4	185		250			
	B									290	91	132	Y315M1-4	160	Y315M2-4	220			
	C									260	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-4		
	D									220	54	75	Y280S-4	90	Y315S-4	110	Y315S-4		
150-630	A									360	113	220		280		400			
	B									340	103	185		250		355			
	C									280	78	132	Y315M1-4	160	Y315M2-4	200			
	D									220	58	75	Y280S-4	110	Y315S-4	160	Y315M2-4		
200-250	A	600	70	160	Y315M2-2	220		315		300	17.5	22	Y180L-4	30	Y200L-4	45	Y225M-4		
	B	570	62	160	Y315M2-2	185		250		285	16	18.5	Y180M-4	30	Y200L-4	37	Y225S-4		
	C	520	46	110	Y315S-2	132	Y315M1-2	185		250	12	15	Y160L-4	18.5	Y180M-4	30	Y200L-4		
	D	460	32	75	Y280S-2	90	Y280M-2	110	Y315S-2	230	8	11	Y160M-4	15	Y160L-4	15	Y160L-4		
200-315	A	650	122	315		400		560		330	30	45	Y225M-4	55	Y250M-4	75	Y280S-4		
	B	630	114	280		355		500		320	28	37	Y225S-4	55	Y250M-4	75	Y280S-4		
	C	580	88	200		250		355		300	22	30	Y200L-4	37	Y225S-4	55	Y250M-4		
	D	500	65	132	Y315M1-2	180		220		260	15	18.5	Y180M-4	22	Y180L-4	30	Y200L-4		
200-400	A	820	190	630		900		1120		420	50	90	Y280M-4	110	Y315S-4	160	Y315M2-4		
	B	760	162	500		710		900		400	47	75	Y280S-4	110	Y315S-4	132	Y315M1-4		
	C	720	145	450		560		1120		360	36	55	Y250M-4	75	Y280S-4	110	Y315S-4		
	D	660	128	355		450		630		320	27	45	Y225M-4	55	Y250M-4	75	Y280S-4		
	E	600	108	280		355		500											
200-450	A	940	255	1000		1400		1600		460	65	132	Y315M-4	185		250			
	B	880	240	900		1120		1800		442	62	110	Y315S-4	160	Y315L1-4	220			
	C	760	205	630		900		1600		382	48	75	Y280S-4	90	Y280M-4	160	Y315L1-4		
	D	570	145	355		450		630		310	34	45	Y225M-4	75	Y280S-4	90	Y280M-4		
200-500	A									500	80	160	Y315M2-4	220		315			
	B									480	75			200		315			
	C									440	68	132	Y315M1-4	160	Y315M2-4	220			
	D									420	57	110	Y315S-4	132	Y315M1-4	185			
	E									360	43	75	Y280S-4	110	Y315S-4	132	Y315M1-4		

SOBG Table of standard performance

Type	SY	Q m ³ /h	H m	Speed 2950r/min						Speed 1475r/min						
				Proportion1.0		Proportion1.35		比例Proportion1.84		Proportion1.0		Proportion1.35		Proportion1.84		
				Power and Type						Power and Type						
200-560	A							550	96	220			280		400	
	B							500	85	185			250		315	
	C							440	68	160	Y315M2-4		185		200	
	D							360	52	110	Y315S-4	132	Y315M1-4	160	Y315M2-4	
200-630	A							580	132	315			450		630	
	B							560	123	315			400		560	
	C							500	96	200			280		400	
	D							420	70	132	Y315M1-4	160	Y315M2-4	220		
250-315	A							540	26	55	Y250M-4	75	Y280S-4	110	Y315S-4	
	B							520	25	55	Y250M-4	75	Y280S-4	90	Y280M-4	
	C							460	19	37	Y250S-4	55	Y250M-4	75	Y280S-4	
	D							420	13	30	Y200L-4	37	Y225S-4	45	Y225M-4	
250-400	A							700	48	132	Y315M1-4	185		220		
	B							660	44	132	Y315M1-4	160	Y315M2-4	200		
	C							600	35	90	Y280M-4	132	Y315M1-4	160	Y315M2-4	
	D							500	25	75	Y280S-4	90	Y280M-4	110	Y315S-4	
250-500	A							800	80	250			355		630	
	B							750	75	220			315		560	
	C							680	56	160	Y315M2-4	200		280		
	D							580	42	110	Y315S-4	160	Y315M2-4	185		
250-560	A							850	104	355			500		630	
	B							820	96	315			450		560	
	C							750	76	220			315		500	
	D							620	56	160	Y315M2-4	220		315		
250-630	A							850	124	450			560		800	
	B							800	117	400			500		710	
	C							700	94	280			255		500	
	D							600	70	185			220		280	
300-400	A							1050	47	185			280		355	
	B							1000	44	160	Y315M2-4	220		315		
	C							900	33	132	Y315M1-4	160	Y315M2-4	200		
	D							720	26	90	Y280M-4	132	Y315M1-4	160	Y315M2-4	
300-500	A							1250	81	400			530		710	
	B							1200	76	355			450		630	
	C							1100	58	250			315		450	
	D							1000	43	160	Y315M2-4	220		280		
300-560	A							1400	100	560			710		1000	
	B							1350	94	500			630		900	
	C							1200	75	355			400		560	
	D							1100	50	200			250		400	
300-630	A							1500	134							
	B							1450	124							
	C							1300	98							
	D							1050	72							
400-500	A							1850	73	560			710		1000	
	B							1800	66	450			630		800	
	C							1500	51	280			400		530	
	D							1200	39	185			250		315	
400-560	A							2000	96	710			1000		1250	
	B							1900	90	630			900		1120	
	C							1750	71	450			630		900	
	D							1450	52	180			400		530	
400-630	A							2400	122	1120			1400		1800	
	B							2300	113	1000			1250		1800	
	C							2000	90	710			800		1000	
	D							1600	67	400			560		710	



Pumps & Systems



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Pumps & Systems

SOT

Low Flow Pumps



Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

● **Application ranges**

SOT series low flow rate pump is developed for the facts that normal centrifugal pump's application is limited by the condition of low flow rate and high head . It has the advantages of simple structure, maintenance convenient, performance stable and the application range is wide, etc. Its efficiency is better than general centrifugal pump. It is for pumping clean or slightly polluted, cold or hot, chemically neutral or aggressive liquid , which mainly applied :

● **Oil Production**

Water flood, saltwater disposal, well kill , transfer, pipeline injection, reverse osmosis, and steam generation

• Terrestrial Heat Natural Gas Feeding , compressing , filling, storage and carriage , transfer

● **Chemical and Petroleum**

Descaling, process injection, spraying, sampling, caustic service, seal flushing, reactor feed, high flow metering, transfer, and waste disposal.

● **Pollution Control**

Spraying, descaling, wet scrubbing, ultra filtration, reverse osmosis, and other similar application.

● **Pulp and Paper**

Washdown, trim squirt , boiler feed, reverse osmosis, pigment metering, spent sulfide liquor, and seal flushing .

● **Power System**

Boiler feed , desuperheating, condensate return, deaerating, seal flush, and turbine Nox suppression.

● **Mining**

Seal flushing, dust suppression, low flow dewatering, hydraulic mining, and in-situ injection.

● **Aerospace**

Washing, refuelling, feeding in raw material, fuel flooding

● **Vehicle Manufacturing**

Spraying, painting, and lead finish booth cleaning , deburring plastics, continuous wire vulcanization, and gun drill coolant feed .

● **General Industry**

Vehicle washing, fuel atomization, feeding, tanning paste board cleaning, continuous wire vulcanization, and boiler system .

● **Food and Beverage**

Portable cleaning, central cleaning, beverage container washing, boiler feed , high flow metering, spraying, injection

● **Pesticide and Medicine**

Feeding, recirculation , filtering, reverse osmosis, transfer

● **Seals choice**

• Packed stuffing boxes
Latern ring supplying liquid to seals is assembled in the middle of stuffing box , which cools and lubricates the stuffing , preventing gas leaking. Sealing Pressure is at least 0.1 Mpa above shaft sealing pressure.

• Mechanical seals
Single seal

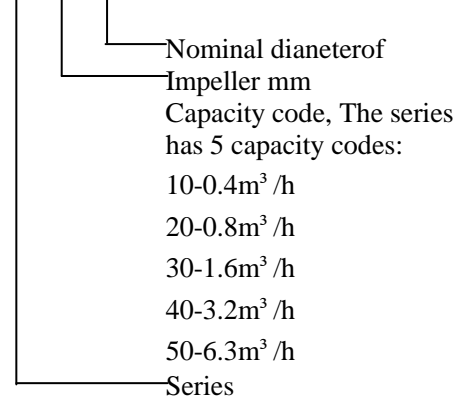
● **Operating data**

Suction size : DN: 40mm
Discharge size : DN: 25mm
Capacity range : Q : 0.4 ~ 6.3m³ /h
Heads: H : 15 ~ 100m
Pressure : P : ~ 2.5MPa
Temperature: T : -40 ~ +200°C

● **Description of the type**

For example:

SOT 40-160



● **Characteristics of structure**

It is single stage, horizontal radially split partial emission pump (tangent pump), a kind of partial centrifugal pump. The pump has a bracket, single suction open impeller, axial suction and tangent discharge. According to the operating conditions, it can use packing seal or mechanical seals of any design (single or double) , with cooling and flushing system. The normal pressure level of suction and discharge is same. The pump rotates CCW seen from driven end.

It uses bearings lubricated grease, which is equipped on the bracket, with flexible coupling can compensate little shaft distance of horizontal, radial, and rotational direction.

● **Liquid transported**

- Sulphuric acid , hydrochloric acid , phosphoric acid for organic acid and inorganic acid which at various temperature and concentration.
- Sodium hydroxide sodium carbonate and alkaline liquid at various temperature and concentration.
- All kinds of salt solution.
- Various liquid petrochemical products, organic compound as well as raw materials with corrosion behaviour and the products .

At present , anti corrosive materials for pumps provided by our plant can meet all the requirements of the liquid mentioned above.

Please provide the detail service conditions for the pump to us when you order.

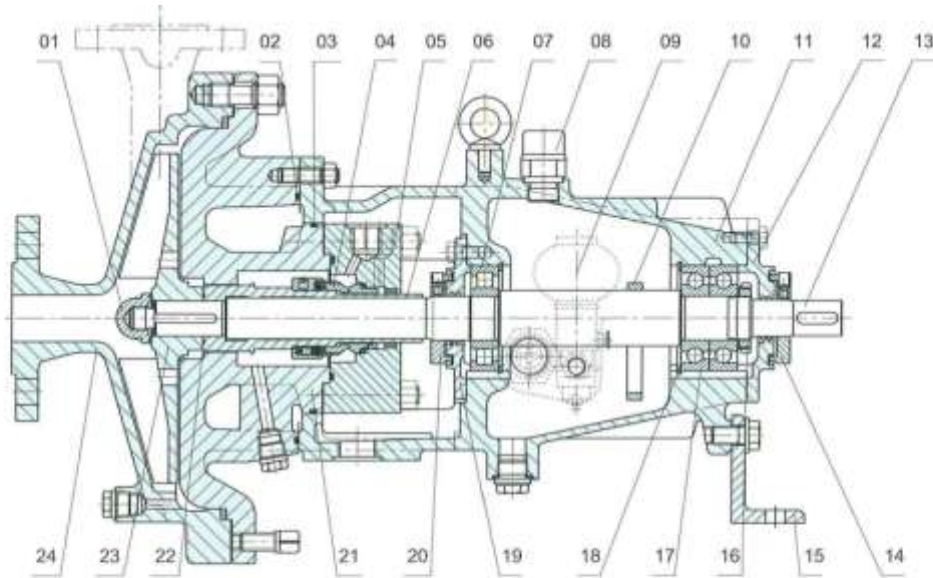
A appropriate flushing plan should be chosen when single seal is applied this series pump's standard flushing plans include as following: API PLAN 02, API PLAN 11 , API PLAN 21. We recommend API PLAN 02 when media temperature is not high and lubricating is good.

Double seal

When liquid is slightly polluted or single seal can't meet requirements. You should choose double seal. If temperature is above +200 °C , we should draw cooling water to the seal cooling box.

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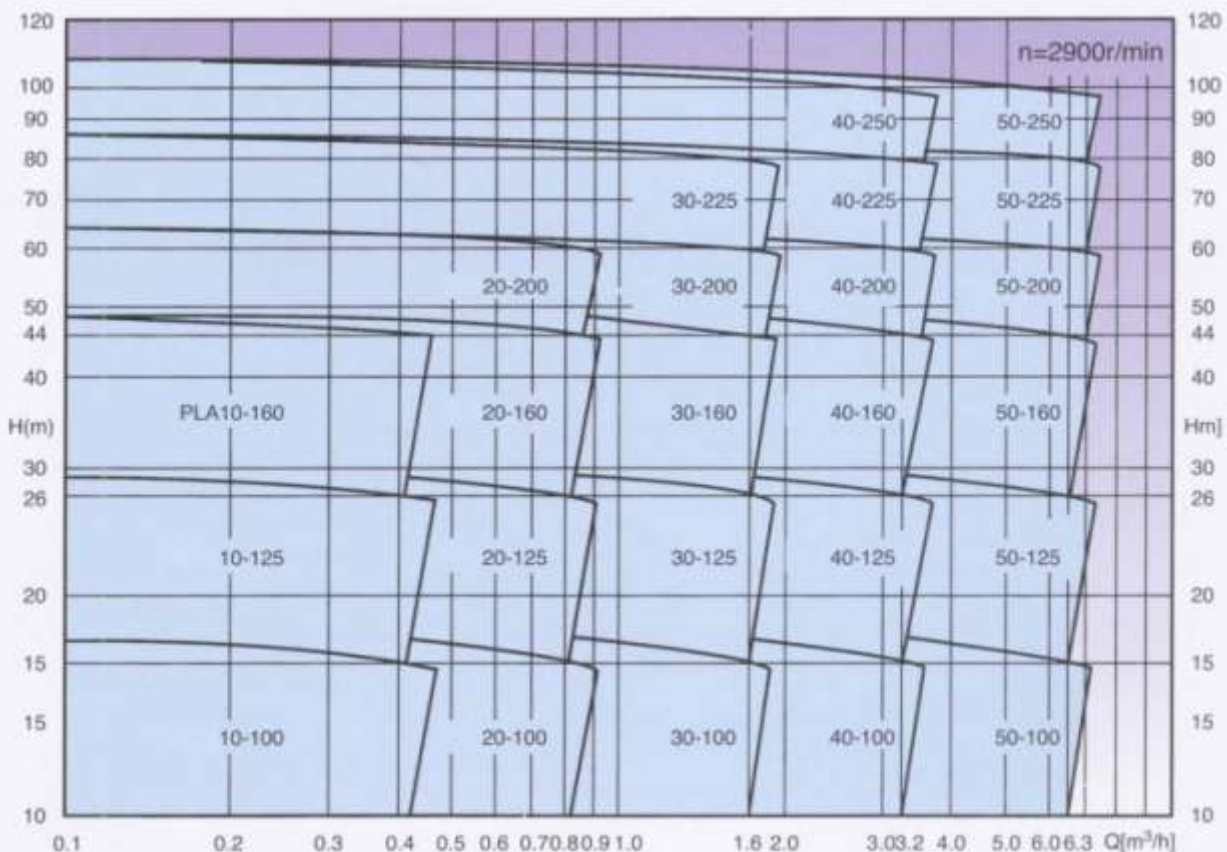
Section Drawing



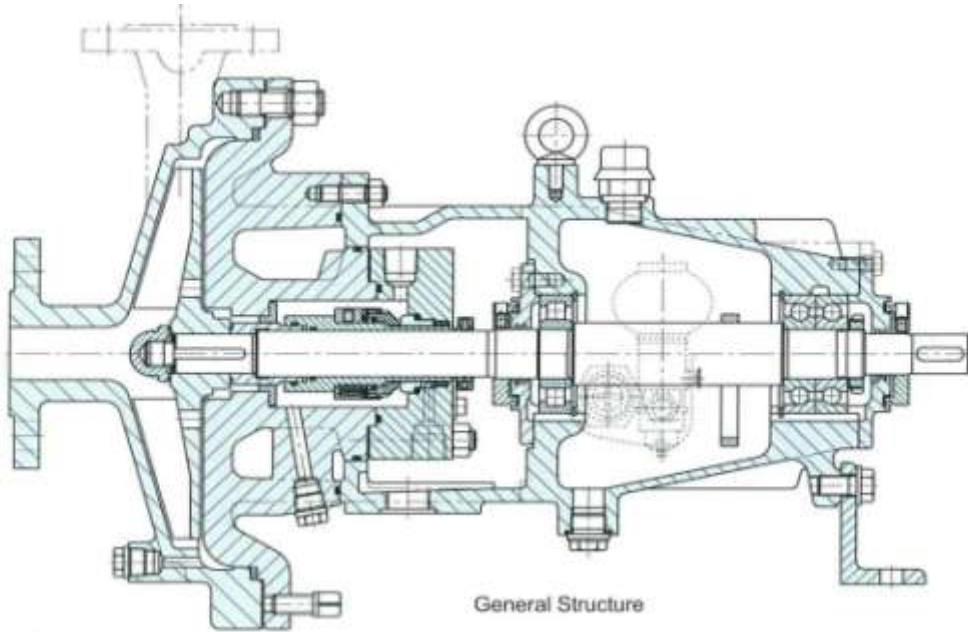
01	Impeller Nut	05	Seal Cover	09	Constant Level Oiler	13	Shaft	17	Bearings	21	Pump Cover
02	O Ring	06	Seal Sleeve	10	Lubricating Ring	14	Deflector	18	Bearing Circlip	22	O Ring
03	O Ring	07	Bearing	11	Bearing House	15	Foot	19	Bearing Cover	23	Impeller
04	Mechanical Seal	08	Vent Plug	12	Bearing Cover	16	Circular Nut	20	Deflector	24	Pump Casing

SOT

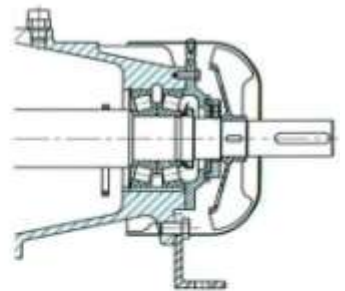
Range of Performance



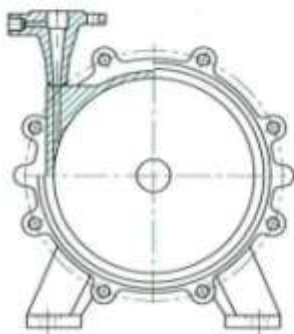
SOT Structure



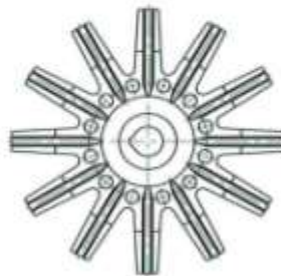
Heat keeping jacket in casing



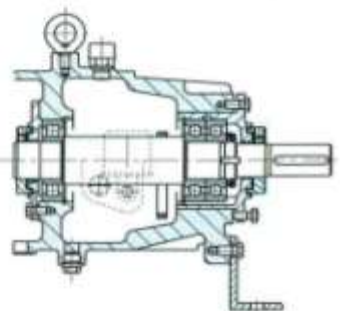
Wind-cooling bearing bracket



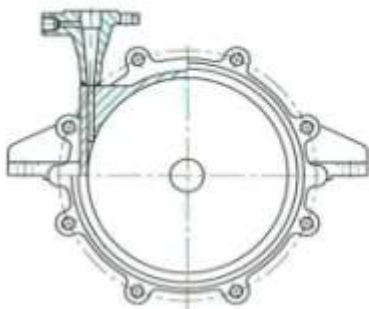
Foot support



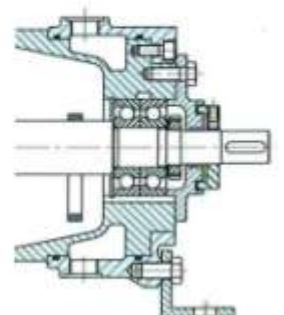
Partial flow impeller



The axial adjustment available for bearing bracket



Centerline supporting



Water-cooling bearing bracket

SOT

Table of Standard Performance

Size	Q(m ³ /h)	H(m)	η %	NPSHr(m)	N(kW)	Power and Type
10-100	0.4	15	18	1.6	1.5 1.5	Y90S-2 Y90S-2
10-125	0.4	26	13	1.6	1.5 1.5	Y90S-2 Y90S-2
10-160	0.4	44	8	1.6	2.2 2.2	Y90L-2 Y90L-2
20-100	0.8	15	27	2.0	1.5 2.2	Y90S-2 Y90L-2
20-125	0.8	26	18	2.0	1.5 2.2	Y90S-2 Y90L-2
20-160	0.8	44	9	2.0	2.2 3.0	Y90L-2 Y100L-2
20-200	0.8	60	6	2.0	5.5 5.5	Y132S1-2 Y132S1-2
30-100	1.6	15	25	2.4	1.5 2.2	Y90S-2 Y90L-2
30-125	1.6	26	20	2.4	1.5 2.2	Y90S-2 Y90L-2
30-160	1.6	44	16	2.4	3.0 3.0	Y100L-2 Y100L-2
30-200	1.6	60	10	2.4	5.5 5.5	Y132S1-2 Y132S1-2
30-225	1.6	80	8	2.4	7.5 7.5	Y132S2-2 Y132S2-2

SOT Table of Standard Performance

Size	Q(m ³ /h)	H(m)	η %	NPSHr(m)	N(kW)	Power and Type
40-100	3.2	15	35	3.0	1.5 2.2	Y90S-2 Y90L-2
40-125	3.2	26	28	3.0	2.2 2.2	Y90L-2 Y90L-2
40-160	3.2	44	22	3.0	4.0 4.0	Y112M-2 Y112M-2
40-200	3.2	60	18	3.0	5.5 5.5	Y132S1-2 Y132S1-2
40-225	3.2	80	15	3.0	7.5 7.5	Y132S2-2 Y132S2-2
40-250	3.2	100	12	3.0	11 11	Y160M1-2 Y160M1-2
50-100	6.3	15	52	3.5	2.2 2.2	Y90L-2 Y90L-2
50-125	6.3	26	47	3.5	2.2 3.0	Y90L-2 Y100L-2
50-160	6.3	44	38	3.5	4.0 5.5	Y112M-2 Y132S1-2
50-200	6.3	60	30	3.5	7.5 7.5	Y132S2-2 Y132S2-2
50-225	6.3	80	22	3.5	11 11	Y160M1-2 Y160M1-2
50-250	6.3	100	20	3.5	15 15	Y160M2-2 Y160M2-2



Pumps & Systems



SOURCE PUMPS & SYSTEMS CO.,LTD

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Pumps & Systems



SOG

Vertical Pipeline Pumps (API 610 OH 3)



Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

● Instruction

The SOG series is single stage, single suction, radially split, vertical centrifugal pipeline pump, which is designed in accordance with standard of API610 and AP1682.

● Features

The SOG series pump and motor share the shaft with a low height, and well stability. The bearing bracket between pump and motor of the SOG series can be used under high temperature and importance applications. Compared to horizontal pump with the same performance, vertical inline pump covers small area, easily connecting, saving the cost.

Impeller, pump casing and cover with interchangeable sealing ring, shaft seal with sleeve, easy to maintain, save spare parts cost.

The pump casing with large than 80mm-diameter (including 80mm) is designed double volute which can balance the radial force and reduce the vibration, and stable operating.

Pump cover has the function of cooling and heat preservation which can be used for pumping mediums with special requirements, pump cover with vent plug, to vent the air in pipe line or pumps before operation. Suitable dimension of sealing housing, use packing or various of mechanical seal, good interchangeability, low cost of size deviation, equipped with cooling, flushing sealing liquid system.

The connection and the standard of suction and discharge flange can be varied with customer's requirements in rated pressure level and dimension.

The pump rotation direction is CW viewing from the driven end.

Performance Data

Flow Range:	Q	up to 600m ³ /h
Head Range:	H	up to 120m
Operating Pressure:	P	up to 50 Bar
Liquid Temperature:	T	up to 250 °C

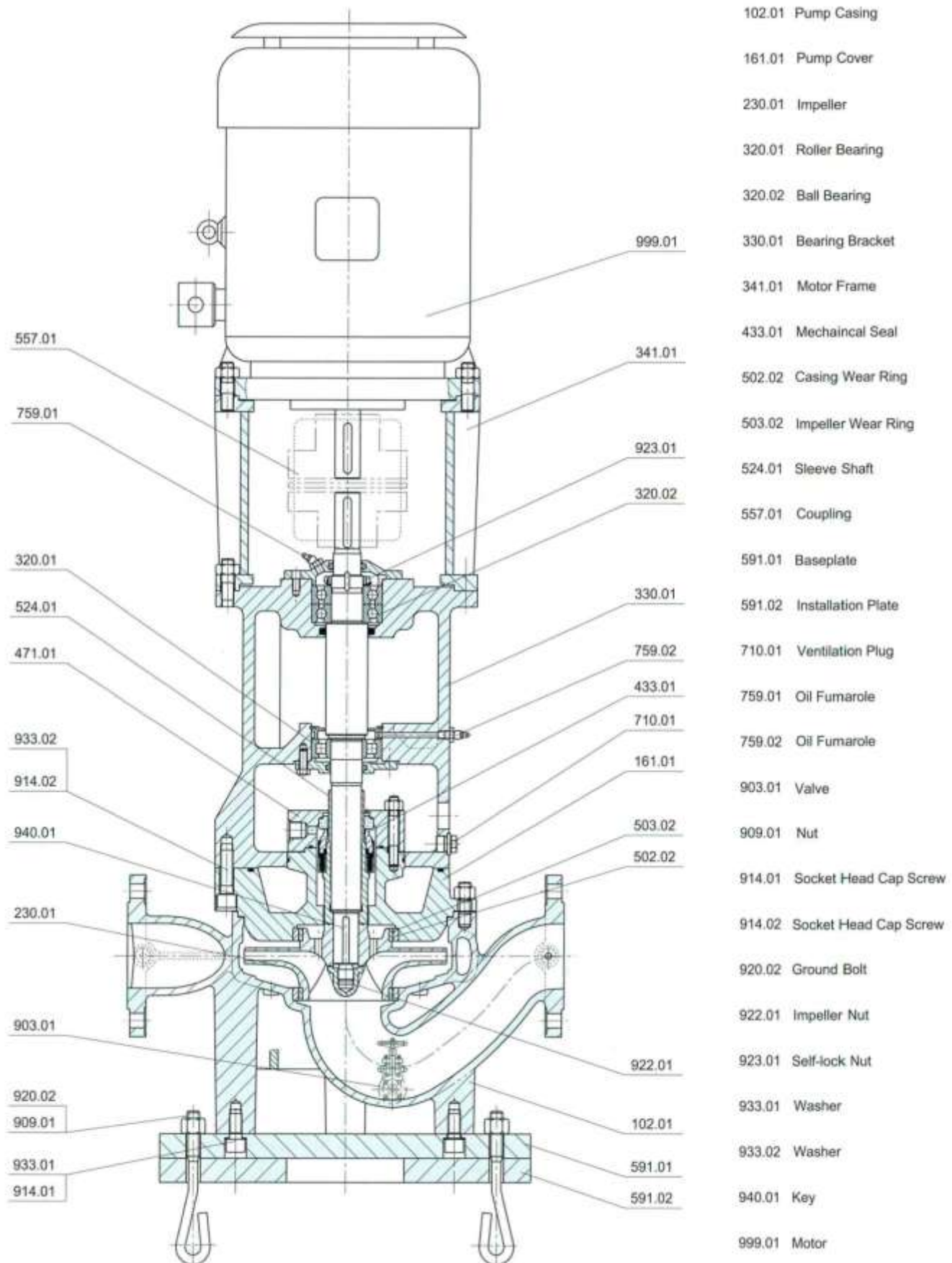
E.G. SOG 150-250

SOG	—	Vertical Pipeline Pumps
150	—	Flange diameter in inlet and outlet
250	—	Impeller nominal diameter

Applications

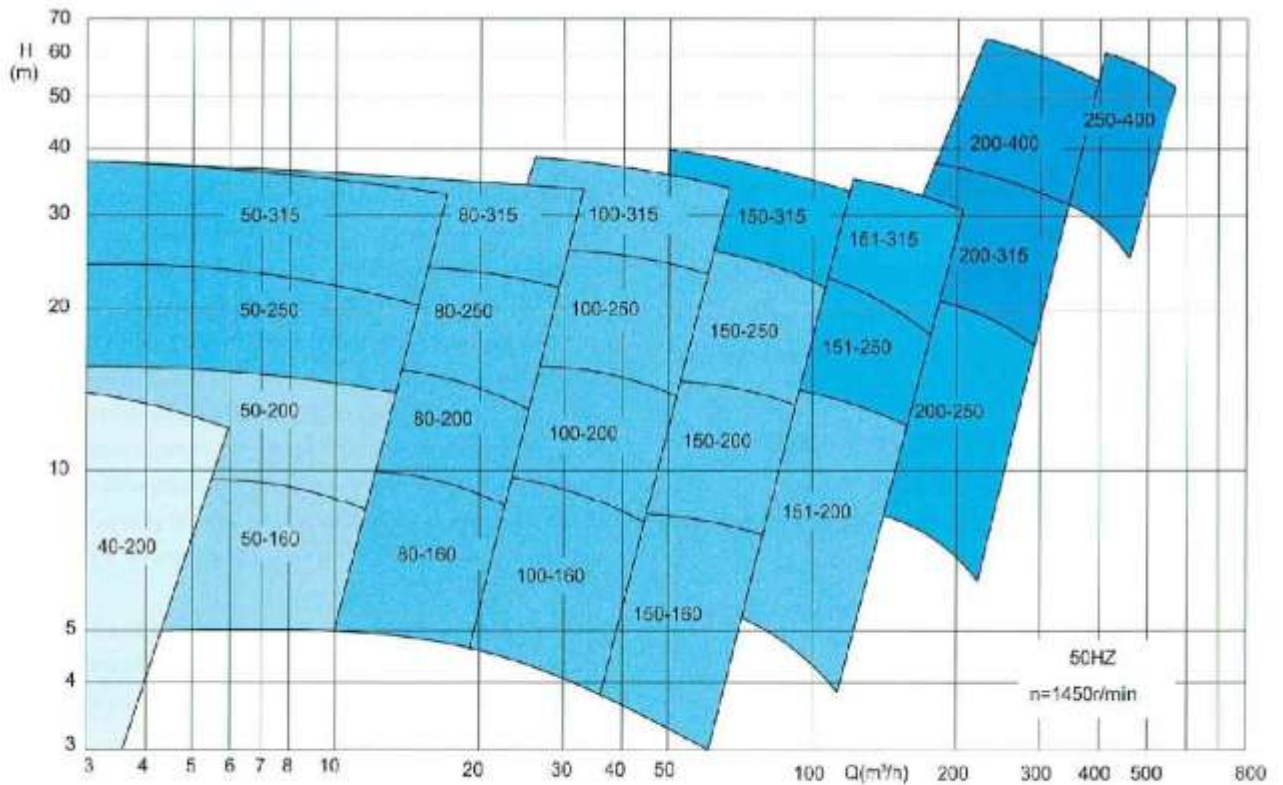
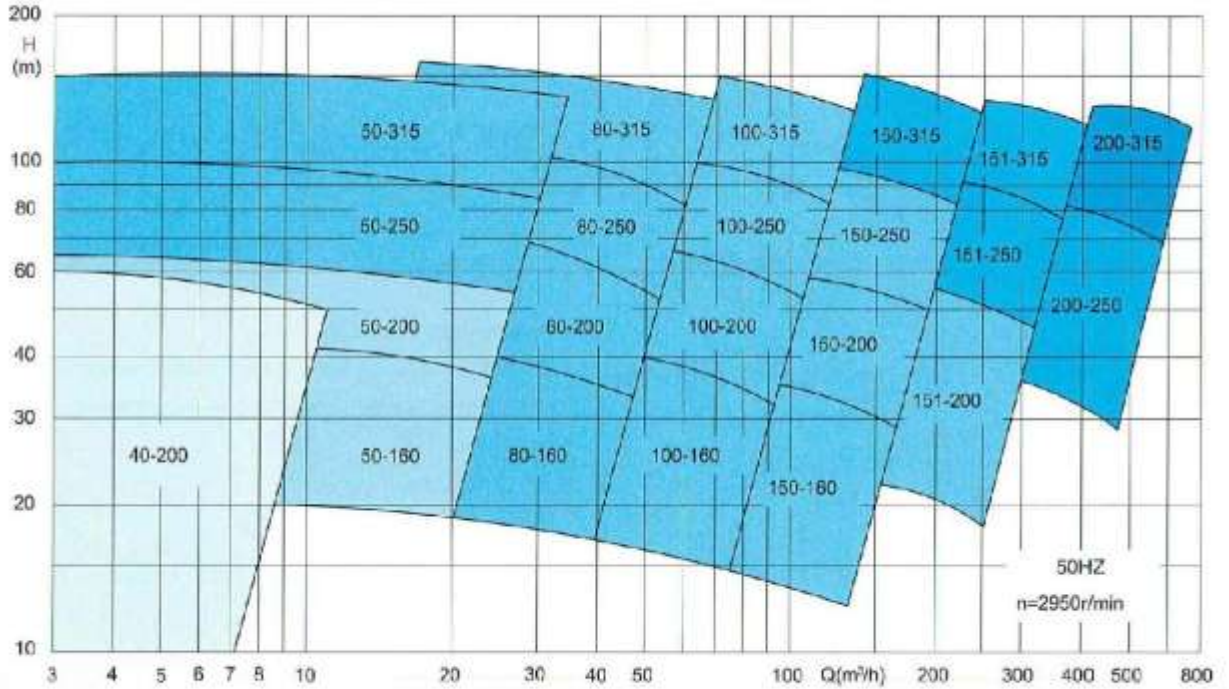
- @ Petrochemical
- @ General industrial process
- @ Pipeline pressurization
- @ Refinery
- @ Water supply and treatment
- @ Marine pump

Sectional Drawing - SOG



- 102.01 Pump Casing
- 161.01 Pump Cover
- 230.01 Impeller
- 320.01 Roller Bearing
- 320.02 Ball Bearing
- 330.01 Bearing Bracket
- 341.01 Motor Frame
- 433.01 Mechanical Seal
- 502.02 Casing Wear Ring
- 503.02 Impeller Wear Ring
- 524.01 Sleeve Shaft
- 557.01 Coupling
- 591.01 Baseplate
- 591.02 Installation Plate
- 710.01 Ventilation Plug
- 759.01 Oil Fumarole
- 759.02 Oil Fumarole
- 903.01 Valve
- 909.01 Nut
- 914.01 Socket Head Cap Screw
- 914.02 Socket Head Cap Screw
- 920.02 Ground Bolt
- 922.01 Impeller Nut
- 923.01 Self-lock Nut
- 933.01 Washer
- 933.02 Washer
- 940.01 Key
- 999.01 Motor

Range of Performance



Range of Performance

型号 Type	叶轮代号 SY	额定转速(speed) n=2950/min									额定转速(speed) n=1450/min														
		流量 Q m³/h	扬程 H m	轴承架 LP	比重Proportion γ 1.0			比重Proportion γ 1.35			比重Proportion γ 1.84			流量 Q m³/h	扬程 H m	轴承架 LP	比重Proportion γ 1.0			比重Proportion γ 1.35			比重Proportion γ 1.84		
					电机功率(kW)及型号 Power and Type												电机功率(kW)及型号 Power and Type								
					kW			kW			kW						kW			kW			kW		
40-200	A	11	49	0-200	5.5	132S1-2	7.5	132S2-2	11	160M1-2	5.8	12	0-200	1.1	90S-4	1.1	90S-4	1.5	90L-4	1.1	90S-4	1.1	90S-4	1.1	90S-4
	B	10	42		4	112M-2	5.5	132S1-2	7.5	132S2-2	5.4	11		5.4	11	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	
	C	9	36		3	100L-2	4	112M-2	5.5	132S1-2	4.6	8.5		4.6	8.5	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	
	D	7.5	28		2.2	90L-2	3	100L-2	4	112M-2	4	6.5		4	6.5	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	
50-160	A	28	33	1-160	5.5	132S1-2	7.5	132S2-2	11	160M1-2	14	8	1-160	1.1	90S-4	1.1	90S-4	1.5	90L-4	1.1	90S-4	1.1	90S-4	1.1	90S-4
	B	25	29		4	112M-2	5.5	132S1-2	5.5	132S1-2	11	5.5		11	5.5	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	
	C	22	22		2.2	90L-2	3	100L-2	4	112M-2	9.5	4.5		9.5	4.5	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	
	D	20	16		2.2	90L-2	3	100L-2	4	112M-2	9.5	4.5		9.5	4.5	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	
50-200	A	29	53	1-200	11	160M1-2	15	160M2-2	18.5	160L-2	14.5	13	1-200	1.5	90L-4	2.2	100L1-4	3	100L2-4	1.5	90L-4	2.2	100L1-4	1.5	90L-4
	B	26	47		7.5	132S2-2	11	160M1-2	15	160M2-2	13	11.5		13	11.5	90S-4	1.1	90S-4	1.5	90L-4	2.2	100L1-4	1.5	90L-4	
	C	22	39		5.5	132S1-2	7.5	132S2-2	11	160M1-2	11.5	9		11.5	9	90S-4	1.1	90S-4	1.1	90S-4	1.5	90L-4	1.1	90S-4	
	D	18	20		4	112M-2	5.5	132S1-2	7.5	132S2-2	9.5	7		9.5	7	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	1.1	90S-4	
50-250	A	32	78	2-250	18.5	160L-2	22	180M-2	30	200L1-2	16	19.5	2-250	3	100L2-4	4	112M-4	5.5	132S-4	3	100L1-4	4	112M-4	5.5	132S-4
	B	30	72		15	160M2-2	18.5	160L-2	30	200L1-2	15	18		15	18	2.2	100L1-4	3	100L2-4	4	112M-4	2.2	100L1-4	4	112M-4
	C	24	60		11	160M1-2	15	160M2-2	18.5	160L-2	12.5	14		12.5	14	2.2	100L1-4	2.2	100L1-4	3	100L2-4	2.2	100L1-4	3	100L2-4
	D	21	47		7.5	132S2-2	11	160M1-2	15	160M2-2	10.5	11		10.5	11	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
50-315	A	42	115	2-315	37	200L2-2	45	225M-2	75	280S-2	21	29	2-315	5.5	132S-4	7.5	132M-4	11	160M-4	5.5	132S-4	7.5	132M-4	11	160M-4
	B	40	107		30	200L1-2	55	250M-2	55	250M-2	20	28.5		20	28.5	4	112M-4	5.5	132S-4	7.5	132M-4	7.5	132M-4		
	C	34	81		22	180M-2	30	200L1-2	45	225M-2	17.5	20		17.5	20	3	100L2-4	3	100L2-4	5.5	132S-4	5.5	132S-4		
	D	29	61		15	160M2-2	22	180M-2	30	200L1-2	15	15		15	15	3	100L2-4	3	100L2-4	5.5	132S-4	5.5	132S-4		
80-160	A	50	34	2-160	11	160M1-2	15	160M2-2	15	160M2-2	25	8.4	2-160	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
	B	45	29		7.5	132S2-2	11	160M1-2	11	160M1-2	19	5.5		19	5.5	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4		
	C	38	22		5.5	132S1-2	7.5	132S2-2	11	160M1-2	16.5	4		16.5	4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4		
	D	31	17		3	100L-2	4	112M-2	5.5	132S1-2	16.5	4		16.5	4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4		
80-200	A	62	52	2-200	18.5	160L-2	22	180M-2	30	200L1-2	31	13	2-200	3	100L2-4	3	100L2-4	4	112M-4	3	100L1-4	4	112M-4		
	B	56	46		15	160M2-2	18.5	160L-2	22	180M-2	28.5	11.5		28.5	11.5	2.2	100L1-4	2.2	100L1-4	3	100L2-4	2.2	100L1-4		
	C	49	37		11	160M1-2	15	160M2-2	18.5	160L-2	25	9		25	9	2.2	100L1-4	2.2	100L1-4	3	100L2-4	2.2	100L1-4		
	D	43	28		7.5	132S2-2	11	160M1-2	15	160M2-2	22	7		22	7	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4		
80-250	A	70	82	2-250	30	200L1-2	37	200L2-2	55	250M-2	35	20	2-250	4	112M-4	5.5	132S-4	7.5	132M-4	4	112M-4	5.5	132S-4	7.5	132M-4
	B	66	75		22	180M-2	30	200L1-2	37	200L2-2	30	15		30	15	3	100L2-4	4	112M-4	5.5	132S-4	3	100L2-4		
	C	60	60		15	160M2-2	18.5	160L-2	22	180M-2	26	11		26	11	2.2	100L1-4	3	100L2-4	3	100L2-4	2.2	100L1-4		
	D	50	45		55	250M-2	75	280S-2	90	280M-2	44	28		44	28	11	160M-4	11	160M-4	15	160L-4	11	160M-4		
80-315	A	87	115	2-315	45	225M-2	75	280S-2	90	280M-2	40	24	2-315	7.5	132M-4	11	160M-4	15	160L-4	7.5	132M-4	11	160M-4	15	160L-4
	B	80	100		30	200L1-2	45	225M-2	55	250M-2	35	19		35	19	5.5	132S-4	7.5	132M-4	11	160M-4	5.5	132S-4		
	C	70	78		22	180M-2	30	200L1-2	37	200L2-2	30	14		30	14	3	100L2-4	4	112M-4	5.5	132S-4	3	100L2-4		
	D	57	57		15	160M2-2	18.5	160L-2	30	200L1-2	47	8		47	8	2.2	100L1-4	3	100L2-4	4	112M-4	2.2	100L1-4		
100-160	A	94	32	2-160	11	160M1-2	15	160M2-2	18.5	160L-2	42	7	2-160	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
	B	85	28		5.5	132S1-2	7.5	132S2-2	11	160M1-2	34	4		34	4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4		
	C	76	23		30	200L1-2	37	200L2-2	51	13.5	51	13.5		51	13.5	4	112M-4	5.5	132S-4	7.5	132M-4	4	112M-4		
	D	66	17		22	180M-2	30	200L1-2	37	200L2-2	47	12		47	12	3	100L2-4	4	112M-4	5.5	132S-4	3	100L2-4		
100-200	A	103	54	2-200	30	200L1-2	37	200L2-2	51	13.5	51	13.5	2-200	4	112M-4	5.5	132S-4	7.5	132M-4	4	112M-4	5.5	132S-4	7.5	132M-4
	B	95	48		22	180M-2	30	200L1-2	37	200L2-2	47	12		47	12	3	100L2-4	4	112M-4	5.5	132S-4	3	100L2-4		
	C	84	38		15	160M2-2	22	180M-2	30	200L1-2	41	9.5		41	9.5	2.2	100L1-4	3	100L2-4	4	112M-4	2.2	100L1-4		
	D	70	30		11	160M1-2	15	160M2-2	22	180M-2	36	7.5		36	7.5	2.2	100L1-4	2.2	100L1-4	3	100L2-4	2.2	100L1-4		
100-250	A	127	82	2-250	45	225M-2	75	280S-2	90	280M-2	64	20	2-250	7.5	132M-4	11	160M-4	15	160L-4	7.5	132M-4	11	160M-4	15	160L-4
	B	120	76		30	200L1-2	45	225M-2	55	250M-2	52	14.5		52	14.5	5.5	132S-4	7.5	132M-4	11	160M-4	5.5	132S-4		
	C	105	59		22	180M-2	30	200L1-2	37	200L2-2	46	11		46	11	4	112M-4	5.5	132S-4	7.5	132M-4	4	112M-4		
	D	87	45		15	160M2-2	18.5	160L-2	22	180M-2	36	7.5		36	7.5	3	100L2-4	4	112M-4	5.5	132S-4	3	100L2-4		

Range of Performance

型号 Type	叶轮 代号 SY	额定转速(speed) n=2950r/min									额定转速(speed) n=1450r/min																
		流量 Q m ³ /h	扬程 H m	轴承架 Bearing Bracket LP	比重Proportion γ 1.0			比重Proportion γ 1.35			比重Proportion γ 1.84			流量 Q m ³ /h	扬程 H m	轴承架 Bearing Bracket LP	比重Proportion γ 1.0			比重Proportion γ 1.35			比重Proportion γ 1.84				
					电机功率(kW)及型号 Power and Type												电机功率(kW)及型号 Power and Type										
100-315	A	141	127	2-315	90	280M-2							70	33	2-315	15	160L-4	18.5	180M-4					22	180L-4		
	B	135	121		75	280S-2								66		30	11	160M-4		15	160L-4						
	C	115	97		55	250M-2	75	280S-2								56	24	11	160M-4	11	160M-4	15	160L-4				
	D	90	74		37	200L2-2	45	225M-2	75	280S-2						45	18	5.5	132S-4	7.5	132M-4	11	160M-4				
150-160	A	162	29	2-160	22	180M-2	30	200L1-2	37	200L2-2			81	7.2	2-160	3	100L2-4	4	112M-4	5.5	132S-4						
	B	150	24		15	160M2-2	22	180M-2	30	200L1-2			73	6		2.2	100L1-4	3	100L2-4	4	112M-4						
	C	130	17		11	160M1-2	15	160M2-2	18.5	160L-2			63	4.3		2.2	100L1-4	2.2	100L1-4	3	100L2-4						
	D	110	12		7.5	132S2-2	11	160M1-2	15	160M2-2			55	3		2.2	100L1-4	2.2	100L1-4	2.2	100L1-4						
150-200	A	193	50	2-200	45	225M-2	55	250M-2					95	12.5	2-200	5.5	132S-4	7.5	132M-4	11	160M-4						
	B	180	44		37	200L2-2	45	225M-2		75	280S-2			90		10.5	4	112M-4	5.5	132S-4	7.5	132M-4					
	C	155	35		30	200L1-2	37	200L2-2	45	225M-2			80	8.5		3	100L2-4	3	100L2-4	4	112M-4						
	D	135	26		18.5	160L-2	30	200L1-2	37	200L2-2			70	6		3	100L2-4	3	100L2-4	4	112M-4						
150-250	A	230	79	2-250	75	280S-2	90	280M-2					115	20	2-250	11	160M-4	15	160L-4	18.5	180M-4						
	B	218	73		45	225M-2	75	280S-2	90	280M-2			110	18		7.5	132M-4	11	160M-4	15	160L-4						
	C	190	58		37	200L2-2	45	225M-2	75	280S-2			100	14		5.5	132S-4	7.5	132M-4	7.5	132M-4	7.5	132M-4				
	D	170	44		37	200L2-2	45	225M-2	75	280S-2			90	10		5.5	132S-4	7.5	132M-4	7.5	132M-4	7.5	132M-4				
150-315	A	250	126	3-315	132	315M1-2							125	31	3-315	18.5	180M-4	30	200L-4	37	225S-4						
	B	240	120			280M-2	160	315M2-2					119	29		15	160L-4	18.5	180M-4	22	180L-4	30	200L-4				
	C	203	97		90	280S-2	132	315M1-2	160	315M2-2			104	24		11	160M-4	11	160M-4	15	160L-4						
	D	170	71		75	250M-2	75	280S-2	110	315S-2			86	17.5		11	160M-4	11	160M-4	15	160L-4						
151-200	A	320	44	2-200	55	225M-2	75	280S-2					160	11	2-200	7.5	132M-4	11	160M-4	15	160L-4						
	B	300	39		45			90	280M-2			152	9.5	5.5		132S-4	7.5	132M-4	11	160M-4							
	C	265	30		37	200L2-2	45	225M-2	75	280S-2			140	7		3	100L2-4	4	112M-4	5.5	132S-4						
	D	220	23		22	180M-2	30	200L1-2	45	225M-2			123	5		3	100L2-4	4	112M-4	5.5	132S-4						
151-250	A	390	74	3-250	110	315S-2	160	315M2-2					195	18.5	3-250	15	160L-4	22	180L-4	30	200L-4						
	B	355	62		90	280M-2	110	315S-2	160	315M2-2			180	16				18.5	180M-4	22	180L-4						
	C	325	46		75	280S-2	90	280M-2	110	315S-2			160	11.5		11	160M-4	11	160M-4	15	160L-4						
	D																										
151-315	A	442	125	3-315									220	32.5	3-315	30	200L-4	45	225M-4	55	250M-4						
	B	430	120									210	30				37	225S-4									
	C	372	94		160	315M2-2						180	24	22		180L-4	30	200L-4	37	225S-4							
	D	310	68		90	280M-2	132	315M1-2	160	315M2-2			150	17		15	160L-4	18.5	180M-4	22	180L-4						
200-250	A	610	72	3-250	160	315M2-2							305	17.5	3-250	22	180L-4	30	200L-4	45	225M-4						
	B	580	65									290	16	18.5		180M-4			37	225S-4							
	C	520	47		110	315S-2	132	315M1-2				260	12	15		160L-4	18.5	180M-4	30	200L-4							
	D	470	32		75	280S-2	90	280M-2	110	315S-2			240	8		11	160M-4	15	160L-4	15	160L-4						
200-315	A	710	122	4-315									350	30	4-315	45	225M-4	55	250M-4	75	280S-4						
	B	680	114									340	29	37		225S-4											
	C	600	87									300	22	30		200L-4	37	225S-4	55	250M-4							
	D	480	65		132	315M1-2						250	15	18.5		180M-4	22	180L-4	30	200L-4							
200-400	A			4-400									420	50	4-400	90	280M-4	110	315S-4	160	315M2-4						
	B											400	47	75		280S-4	110	315S-4	132	315M1-4							
	C											360	36	55		250M-4	75	280S-4	110	315S-4							
	D											320	27	45		225M-4	55	250M-4	75	280S-4							
	E																										
250-400	A			4-400									700	48	4-400	132	315M1-4										
	B											660	44	132		315M1-4	160	315M2-4									
	C											600	35	90		280M-4	132	315M1-4									
	D											500	25	75		280S-4	90	280M-4	110	315S-4							



Pumps & Systems



SOURCE PUMPS & SYSTEMS CO.,LTD

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Pumps & Systems



SOB

Series single-stage cantilever type pump (OH 2)



Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

● Overview

Series SOB is a centerline-mounted single-stage cantilever type centrifugal pump widely used for pumping petroleum and its products in petroleum refining, petrochemical industry, chemical industry and other industries.

Used for pumping clean or slightly contaminated media, especially for pumping flammable, explosive or poisonous liquids. Series SOB pumps comply with the design requirements in API 610 10th/API 610 11th.

● Application range

Mainly used in petroleum refining, petrochemical industry, chemical industry and other industries for pumping petroleum and its products including crude oil, refined oil products, hydrocarbons, water, acids, alkalis, salts and other media.

Materials

Main materials: S-3, S-5, S-6, S-8, S-9, C-6, A-7, A-8, D-1, D-2 or other materials.

● Technical

- ◎ Capacity Q: up to 25 ~ 600 m³/h
 - ◎ Head H: up to 30~330 m
 - ◎ Pressure P: up to 4.0 MPa
 - ◎ Temperature t: -45 ~ +420°C
-

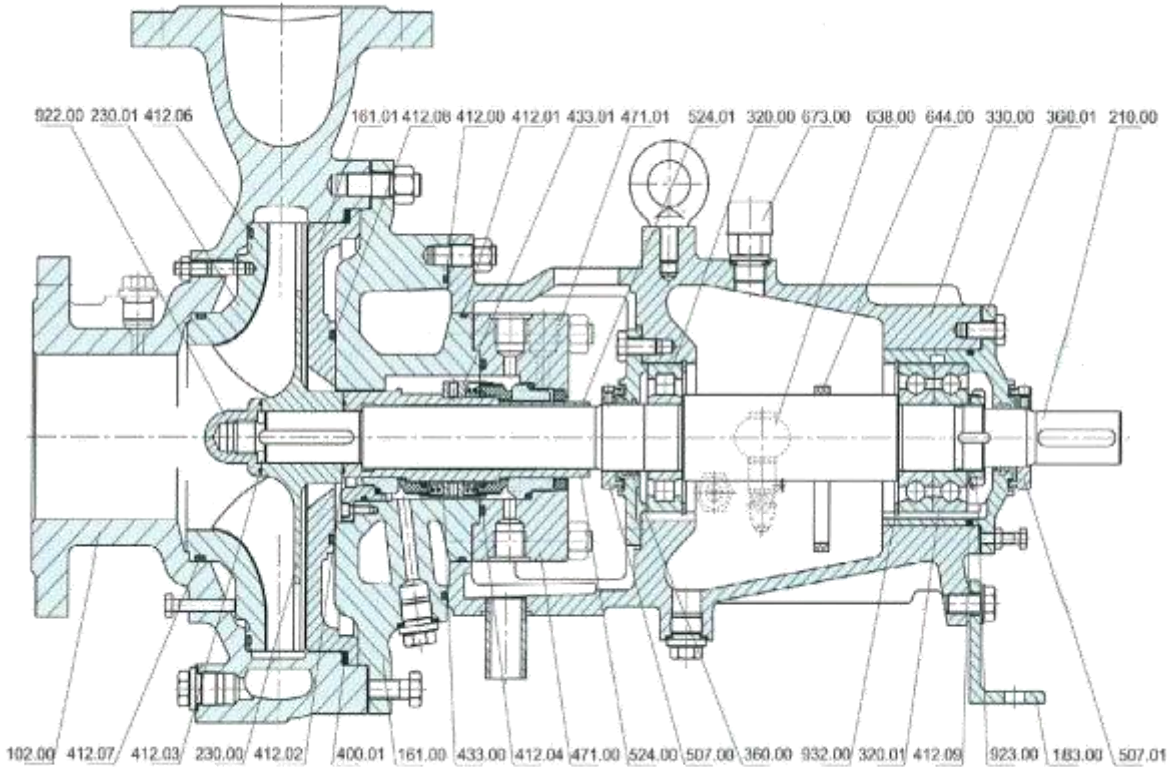
● Sealing

All layouts and systems to API682 are available.

● Direction of rotation

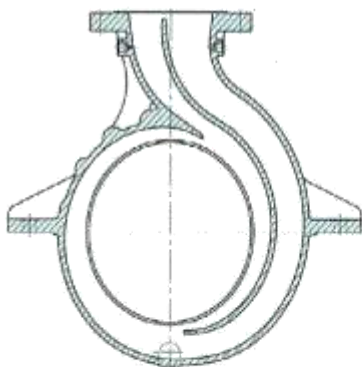
The pump can be manufactured as counterclockwise rotation from the view of driving end or as required by the customer.

Section Drawing

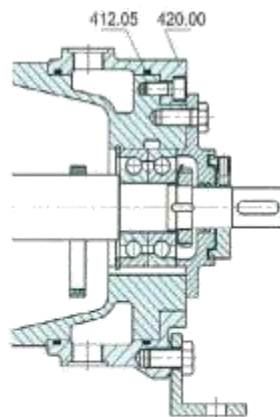


102.00	Pump Casing	230.01	Wear Proof Board	400.01	Flat Gasket	412.06	O-Ring	471.00	Seal Cover	638.00	Constant Level Oiler
161.00	Pump Cover	320.00	Bearing	412.00	O-Ring	412.07	O-Ring	471.01	Seal Cover	644.00	Lubricating Ring
161.01	Wear Proof Board	320.01	Bearing	412.01	O-Ring	412.08	O-Ring	507.00	Deflector	673.00	Oil Filter
183.00	Foot	330.00	Bearing House	412.02	O-Ring	412.09	O-Ring	507.01	Deflector	922.00	Impeller Nut
210.00	Shaft	360.00	Bearing Cover	412.03	O-Ring	433.00	Mechanical Seal	524.00	Shaft Sleeve	923.00	Circular Nut
230.00	Impeller	360.01	Bearing Body	412.04	O-Ring	433.01	Mechanical Seal	524.01	Shaft Sleeve	932.00	Retainer

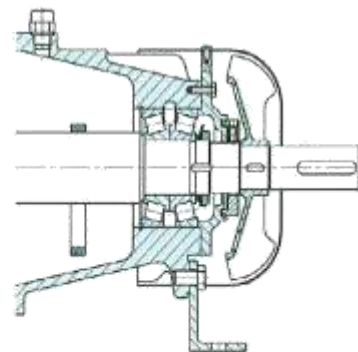
SOB Series Different structures



Centerline support



Water-cooling bearing bracket



Fan cooling bearing bracket

Range of Performance

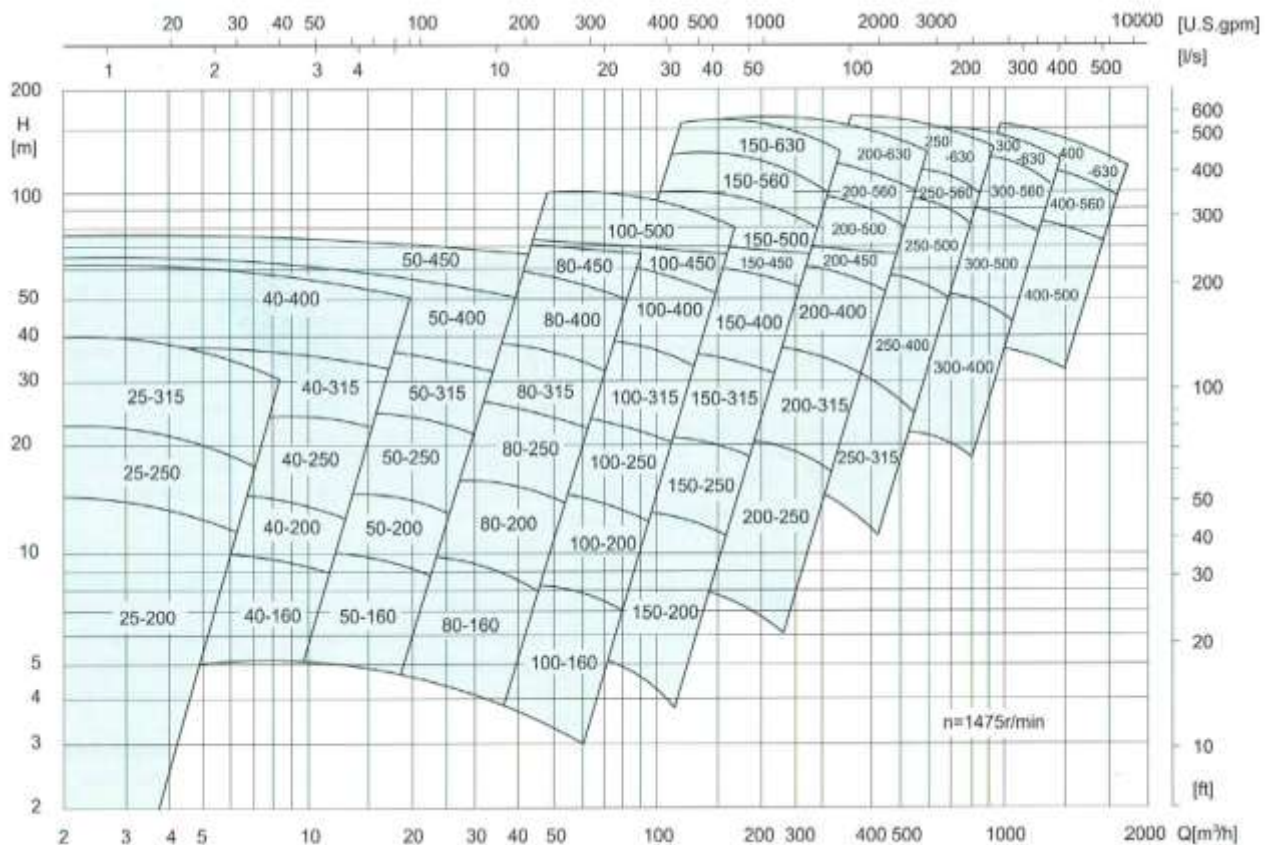
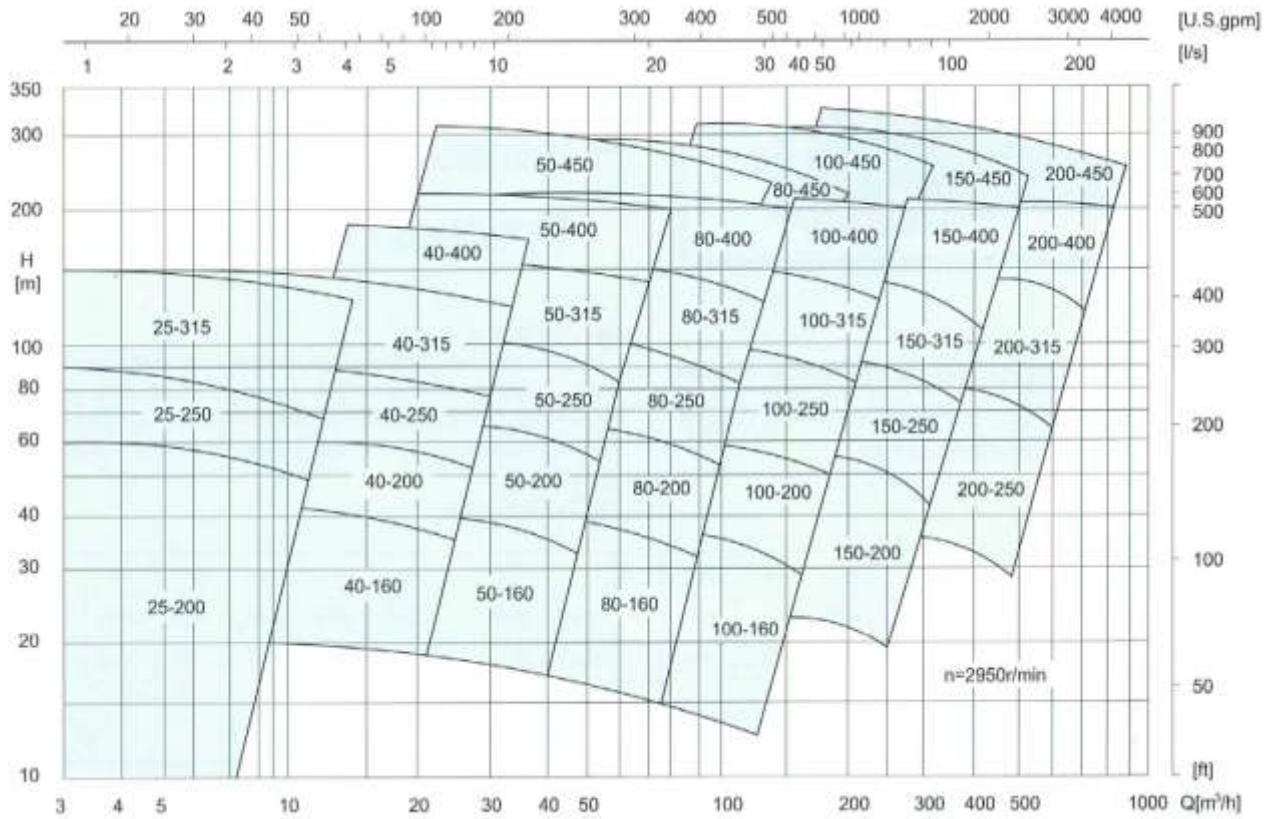


Table of Standard Performance

Type	SY	Q m³/h	H m	Speed 2950r/min						Q m³/h	H m	Speed 1475r/min					
				Proportion1.0		Proportion1.35		Proportion1.84				Proportion1.0		Proportion1.35		Proportion1.84	
				Power and Type								Power and Type					
25-200	A	11	52	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	5.6	12.5	1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4
	B	10	45	4	Y112M-2	5.5	Y132S1-2	7.5	Y132S2-2	5	11						
	C	8.5	38	3	Y100L-2	4	Y112M-2	5.5	Y132S1-2	4.5	9.5						
	D	7	30	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	4	7						
	E	5.5	18	1.5	Y90S-2	1.5	Y90S-2	2.2	Y90L-2	3	4						
25-250	A	16	82	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	8	22	2.2	Y100L-4	3	Y100L2-4	4	Y112M-4
	B	15	75							7.5	18						
	C	13	53	11	Y160M1-2	15	Y160M2-2	22	Y180M-2	6.5	14.5						
	D	11	40			11	Y160M1-2	15	Y160M2-2	5.5	10.5						
25-315	A	19	128	30	Y200L1-2	37	Y200L2-2	55	Y250M-2	9.5	9.32	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4
	B	17.5	117	30	Y200L1-2	37	Y200L2-2	45	Y225M-2	8.8	29						
	C	15	105	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	8	24						
	D	14	90	18.5	Y160L-2	30	Y200L1-2	37	Y200L2-2	7	22						
	E	13	80	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	6.5	20						
	F	12	65	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	5.8	16						
40-160	A	27	32	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	13.5	8	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4
	B	25	28							12.5	7						
	C	22	21	4	Y112M-2	5.5	Y132S1-2	5.5	Y132S1-2	11	5						
40-200	A	34	51	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	17	12.5	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4
	B	31	46	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	16	11						
	C	26	36	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	14	8.5						
	D	23	27	4	Y112M-2	5.5	Y132S1-2	7.5	Y132S2-2	12	6						
40-250	A	35	75	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2	17.5	19	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
	B	33	70	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	16.5	18						
	C	29	54	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	15	13						
	D	24	38	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	12.5	9						
40-315	A	42	120	37	Y200L2-2	45	Y225M-2	75	Y280S-2	20	30	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4
	B	40	108	30	Y200L1-2	45	Y225M-2	55	Y250M-2	18	27						
	C	32	85	22	Y180M-2	30	Y200L1-2	45	Y225M-2	15	22						
	D	29	60	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	13	18						
40-400	A	42	200	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	20	50	15	Y160L-4	22	Y180L-4	30	Y200L-4
	B	36	190	75	Y280S-2	110	Y315S-2	160	Y315M2-2	17	45						
	C	32	155	55	Y250M-2	75	Y280S-2	110	Y315S-2	15	35						
	D	28	120	45	Y225M-2	75	Y280S-2	90	Y280M-2	13	25						
50-160	A	50	33	11	Y160M1-2	15	Y160M2-2	15	Y160M2-2	25	8	1.5	Y90L-4	2.2	Y100L1-4	2.2	Y100L1-4
	B	44	29	7.5	Y132S2-2	11	Y160M1-2	15	Y160M1-2	22	7						
	C	38	21	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	19	5						
50-200	A	60	52	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2	30	12.5	3	Y100L2-4	3	Y100L2-4	4	Y112M-4
	B	55	46	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	28	11						
	C	50	36	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	25	9						
	D	40	28	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	21	7						
50-250	A	70	80	30	Y200L1-2	37	Y200L2-2	55	Y250M-2	35	20	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4
	B	65	72							33	18						
	C	60	60	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	30	15						
	D	50	42	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	28	10						
50-315	A	85	115	55	Y250M-2	75	Y280S-2	110	Y315S-2	43	28	11	Y160M-4	15	Y160L-4	15	Y160L-4
	B	80	100	45	Y225M-2			90	Y280M-2	40	24						
	C	68	78	30	Y200L1-2	45	Y225M-2	55	Y250M-2	35	18						
	D	55	58	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	30	13						
50-400	A	90	185	110	Y315S-2	160	Y315M2-2			46	50	18.5	Y180M-4	22	Y180L-4	30	Y200L-4
	B	85	165	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	44	46						
	C	75	150	75	Y280S-2	110	Y315S-2	132	Y315M1-2	40	36						
	D	70	130	75	Y280S-2	90	Y280M-2	132	Y315M1-2	34	27						
	E	65	110	55	Y250M-2	75	Y280S-2	110	Y315S-2								
50-450	A	135	250	220		185		400		67	63	30	Y200L-4	45	Y225M-4	55	Y250M-4
	B	125	220	185		250		315		63	55						
	C	115	188	132	Y315M-2	185		250		57	46						
	D	95	130	90	Y180M-2	110	Y315S-2	160	Y315L1-2	48	32						

Table of Standard Performance

Type	SY	Q m ³ /h	H m	Speed 2950r/min								Speed 1475r/min							
				Proportion1.0		Proportion1.35		Proportion1.84		Q m ³ /h	H m	Proportion1.0		Proportion1.35		Proportion1.84			
				Power and Type								Power and Type							
80-160	A	100	30	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	50	8	2.2	Y100L2-4	3	Y100L2-4	4	Y112M-4		
	B	90	27	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	45	6.5		2.2	Y100L1-4	3	Y100L2-4			
	C	80	22			11	Y160M1-2	15	Y160M2-2	40	5.5	1.5	Y90L-4			2.2	Y100L1-4		
	D	70	18	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	30	4.5	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L1-4		
80-200	A	100	54	30	Y200L1-2	37	Y200L2-2	55	Y250M1-2	50	13	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	B	90	48	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	46	12.5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
	C	80	38	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	40	9.5	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4		
	D	70	29	11	Y160M1-2	15	Y160M2-2	22	Y180M2-2	36	7	1.5	Y90L2-4	2.2	Y100L1-4	3	Y100L2-4		
80-250	A	120	80	45	Y225M-2	75	Y280S-2	90	Y280M-2	60	20	7.5	Y132M-4	11	Y160M-4	15	Y160L-4		
	B	115	72			55	Y250M-2	75	Y280S-2	57	18		7.5	Y132M-4	11	Y160M-4			
	C	105	55	30	Y200L1-2	45	Y225M-2	55	Y250M-2	50	14	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	D	85	42	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	42	10	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
80-315	A	130	120	90	Y280M-2	110	Y315S-2	185		65	30	15	Y160L-4	18.5	Y180M-4	22	Y180L-4		
	B	125	112	75	Y280S-4	90	Y280M-2			62	28	11	Y160M-4	15	Y160L-4				
	C	110	88	55	Y250M-2	75	Y280S-2			55	22		11	Y160M-4	15	Y160L-4			
	D	85	65	37	Y200L2-2	45	Y225M-2	75	Y280S-2	42	16	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
80-400	A	160	168	160	Y315M2-2	160	Y315M2-2	315		85	46	22	Y180L-4	30	Y200L-4	45	Y225M-4		
	B	150	145	132	Y315M1-2	160	Y315M2-2	220		80	41	18.5	Y180M-4			37	Y225S-4		
	C	135	125	110	Y315S-2	132	Y315M1-2	185		65	33	15	Y160L-4	18.5	Y180M-4	30	Y200L-4		
	D	125	105	90	Y280M-2	110	Y315S-2	160	Y315M2-2	52	24	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
80-450	E	120	90	75	Y280S-2	110	Y315S-2	132	Y315M1-2										
	A	200	229	350		450		630		103	60	37	Y225S-4	55	Y250M-4	75	Y280S-4		
	B	188	205	220		280		400		98	57	37	Y225S-4	45	Y225M-4	75	Y280S-4		
	C	178	188	185		250		355		83	47	30	Y200L-4	30	Y200L-4	45	Y225M-4		
	D	160	158	160	Y315M2-2	200		250		70	32	15	Y160L-4	22	Y180L-4	30	Y200L-4		
100-160	E	142	128	110	Y315S-4	132	Y315M-4	180											
	A	160	28	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	80	7	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
	B	150	24	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	72	5.5	2.2	Y100L1-2	3	Y100L2-4	4	Y112M-4		
	C	130	17	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	60	4	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4		
100-200	D	100	13	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	50	3.5	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4		
	A	170	49	45	Y225M-2	50	Y250M-2	75	Y280S-2	85	12	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
	B	160	43	37	Y200L2-2	45	Y225M-2			80	10.5								
	C	150	32	30	Y200L1-2	37	Y200L2-2	45	Y225M-2	75	8	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
100-250	D	130	24	18.5	Y160L-2	30	Y200L1-2	37	Y200L2-2	65	6	3	Y100L2-4	3	Y100L2-4	4	Y112M-4		
	A	230	77	75	Y280S-2	90	Y280M-2	132	Y315M1-2	115	19	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
	B	220	70							110	17					15	Y160L-4		
	C	190	55	45	Y225M-2	75	Y280S-4	90	Y280M-2	100	13	7.5	Y132M-4	11	Y160M-4	11	Y160M-4		
100-315	D	170	44	37	Y200L2-2	45	Y225M-2	75	Y280S-2	90	10	5.5	Y132S-4	7.5	Y132M-4	7.5	Y132M-4		
	A	250	125	132	Y315M1-2	185		250		125	31	18.5	Y180M-4	30	Y200L-4	37	Y225S-4		
	B	235	117	132	Y315M1-2	160	Y315M2-2	220		120	29			22	Y180L-4	30	Y200L-4		
	C	200	95	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	105	23	15	Y160L-4	18.5	Y180M-4	22	Y180L-4		
100-400	D	165	70	75	Y280S-2	75	Y280S-2	110	Y315S-2	85	16	11	Y160M-4	11	Y160M-4	15	Y160L-4		
	A	280	190	250		315		450		145	49	37	Y225S-4	45	Y225M-4	75	Y280S-4		
	B	260	170	200		280		355		135	47	37	Y225S-4			55	Y250M-4		
	C	240	150	160	Y315M2-2	220		315		120	36	22	Y180L-4	30	Y200L-4	45	Y225M-4		
	D	215	130	132	Y315M1-2	185		250		100	29	15	Y160L-4	22	Y180L-4	30	Y200L-4		
100-450	E	205	110	110	Y315S-2	160	Y315M2-2	200											
	A	330	258	380		560		710		167	64	55	Y250M-4	75	Y280S-4	110	Y315S-4		
	B	310	242	350		500		630		155	60	45	Y225M-4	75	Y280S-4	90	Y280M-4		
	C	260	200	250		315		450		132	50	37	Y225S-4	45	Y225M-4	75	Y280S-4		
100-500	D	200	145	132	Y315M-2	185		250		102	37	22	Y180L-4	30	Y200L-4	37	Y225S-4		
	A									175	76	75	Y280S-4	90	Y280M-4	132	Y315M1-4		
	B									165	72	75	Y280S-4	90	Y280M-4	110	Y315S-4		
	C									150	54	45	Y225M-4	75	Y280S-4	90	Y280M-4		
D									125	42	30	Y200L-4	45	Y225M-4	55	Y250M-4			

Table of Standard Performance

Type	SY	Speed 2950r/min										Speed 1475r/min											
		Q m³/h	H m	Proportion1.0			Proportion1.35			Proportion1.04			Q m³/h	H m	Proportion1.0			Proportion1.35			Proportion1.04		
				Power and Type											Power and Type								
150-200	A	300	45	55	Y250M-2	75	Y280S-2	110	Y315S-2	150	11.5	7.5	Y132M-4	11	Y160M-4	15	Y160L-4						
	B	280	40	45	Y225M-2				90	Y280M-2	140	9.5											
	C	260	30	37	Y200L2-2	45	Y225M-2	75	Y280S-2	130	7.5	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4						
	D	200	24	22	Y180M-2	30	Y200L1-2	45	Y225M-2	115	5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4						
150-250	A	380	74	110	Y315S-2	180	Y315M2-2	200		190	18	15	Y160L-4	22	Y180L-4	30	Y200L-4						
	B	350	60	90	Y280M-2	110	Y315S-2	160	Y315M2-2	180	15		18.5	Y180M-4	22	Y180L-4							
	C	300	48	75	Y280S-2	90	Y280M-2	110	Y315S-2	150	12	11	Y160M-4	11	Y160M-4	15	Y160L-4						
150-315	A	440	124	220		280		400		220	31	30	Y200L-4	45	Y225M-4	55	Y250M-4						
	B	420	115	185		250		355		210	29		37	Y225S-4									
	C	380	90	160	Y315M2-2	185		250		190	22	22	Y180L-4	30	Y200L-4	37	Y225S-4						
	D	340	65	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	170	16	15	Y160L-4	18.5	Y180M-4	22	Y180L-4						
150-400	A	500	190	380		560		710		160	50	55	Y250M-4	75	Y280S-4	110	Y314S-4						
	B	480	170	355		450		630		150	46					90	Y280M-4						
	C	460	148	280		400		500		220	38	37	Y225S-4	55	Y250M-4	75	Y280S-4						
	D	420	130	220		315		400		190	28	30	Y200L-4	37	Y225S-4	55	Y250M-4						
	E	400	110	185		250		355															
150-450	A	538	250	560		800		1120		270	64	75	Y250S-4	110	Y315S-4	160	Y315L1-4						
	B	490	230	500		710		900		260	62	75	Y250S-4	110	Y315S-4	132	Y315M-4						
	C	450	210	400		560		800		230	52	55	Y250M-4	75	Y280S-4	110	Y315S-4						
	D	390	175	315		400		560		170	38	22	Y180L-4	37	Y225S-4	55	Y250M-4						
	E	340	150	220		315		400															
150-500	A									300	75	110	Y315S-4	132	Y315M1-4	185							
	B									280	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-4						
	C									240	58	75	Y280S-4	90	Y280M-4	110	Y315S-4						
	D									200	44	45	Y225M-4	75	Y280S-4	75	Y208S-4						
150-560	A									300	97	160	Y315M2-4	185		250							
	B									290	91	132	Y315M1-4	160	Y315M2-4	220							
	C									260	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-4						
	D									220	54	75	Y280S-4	90	Y315S-4	110	Y315S-4						
150-630	A									360	113	220			280		400						
	B									340	103	185			250		355						
	C									280	78	132	Y315M1-4	160	Y315M2-4	200							
	D									220	58	75	Y280S-4	110	Y315S-4	160	Y315M2-4						
200-250	A	600	70	160	Y315M2-2	220		315		300	17.5	22	Y180L-4	30	Y200L-4	45	Y225M-4						
	B	570	62	160	Y315M2-2	185		250		285	16	18.5	Y180M-4	30	Y200L-4	37	Y225S-4						
	C	520	46	110	Y315S-2	132	Y315M1-2	185		250	12	15	Y160L-4	18.5	Y180M-4	30	Y200L-4						
	D	480	32	75	Y280S-2	90	Y280M-2	110	Y315S-2	230	8	11	Y160M-4	15	Y160L-4	15	Y160L-4						
200-315	A	650	122	315		400		560		330	30	45	Y225M-4	55	Y250M-4	75	Y280S-4						
	B	630	114	280		355		500		320	28	37	Y225S-4	55	Y250M-4	75	Y280S-4						
	C	580	88	200		250		355		300	22	30	Y200L-4	37	Y225S-4	55	Y250M-4						
	D	500	65	132	Y315M1-2	180		220		260	15	18.5	Y180M-4	22	Y180L-4	30	Y200L-4						
200-400	A	820	190	630		900		1120		420	50	90	Y280M-4	110	Y315S-4	160	Y315M2-4						
	B	760	162	500		710		900		400	47	75	Y280S-4	110	Y315S-4	132	Y315M1-4						
	C	720	145	450		560		1120		360	36	55	Y250M-4	75	Y280S-4	110	Y315S-4						
	D	660	128	355		450		630		320	27	45	Y225M-4	55	Y250M-4	75	Y280S-4						
	E	600	108	280		355		500															
200-450	A	940	255	1000		1400		1600		460	65	132	Y315M-4	185		250							
	B	880	240	900		1120		1800		442	62	110	Y315S-4	160	Y315L1-4	220							
	C	760	205	630		900		1600		382	48	75	Y280S-4	90	Y280M-4	160	Y315L1-4						
	D	570	145	355		450		630		310	34	45	Y225M-4	75	Y280S-4	90	Y280M-4						
200-500	A									500	80	160	Y315M2-4	220		315							
	B									480	75			200		315							
	C									440	68	132	Y315M1-4	160	Y315M2-4	220							
	D									420	57	110	Y315S-4	132	Y315M1-4	185							
	E									360	43	75	Y280S-4	110	Y315S-4	132	Y315M1-4						

Table of Standard Performance

Type	SY	Q m ³ /h	H m	Speed 2950r/min						Speed 1475r/min							
				Proportion1.0		Proportion1.35		Proportion1.84		Proportion1.0		Proportion1.35		Proportion1.84			
				Power and Type						Q m ³ /h		H m		Power and Type			
200-560	A							550	96	220			280			400	
	B							500	85	185			250			315	
	C							440	68	160	Y315M2-4		185			200	
	D							360	52	110	Y315S-4		132	Y315M1-4	160	Y315M2-4	
200-630	A							580	132	315			450			630	
	B							560	123	315			400			560	
	C							500	96	200			280			400	
	D							420	70	132	Y315M1-4		160	Y315M2-4	220		
250-315	A							540	26	55	Y250M-4		75	Y280S-4	110	Y315S-4	
	B							520	25	55	Y250M-4		75	Y280S-4	90	Y280M-4	
	C							460	19	37	Y250S-4		55	Y250M-4	75	Y280S-4	
	D							420	13	30	Y200L-4		37	Y225S-4	45	Y225M-4	
250-400	A							700	48	132	Y315M1-4		185			220	
	B							660	44	132	Y315M1-4		160	Y315M2-4	200		
	C							600	35	90	Y280M-4		132	Y315M1-4	160	Y315M2-4	
	D							500	25	75	Y280S-4		90	Y280M-4	110	Y315S-4	
250-500	A							800	80	250			355			630	
	B							750	75	220			315			560	
	C							680	56	160	Y315M2-4		200			280	
	D							580	42	110	Y315S-4		160	Y315M2-4	185		
250-560	A							850	104	355			500			630	
	B							820	96	315			450			560	
	C							750	76	220			315			500	
	D							620	56	160	Y315M2-4		220			315	
250-630	A							850	124	450			560			800	
	B							800	117	400			500			710	
	C							700	94	280			255			500	
	D							600	70	185			220			280	
300-400	A							1050	47	185			280			355	
	B							1000	44	160	Y315M2-4		220			315	
	C							900	33	132	Y315M1-4		160	Y315M2-4	200		
	D							720	26	90	Y280M-4		132	Y315M1-4	160	Y315M2-4	
300-500	A							1250	81	400			530			710	
	B							1200	76	355			450			630	
	C							1100	58	250			315			450	
	D							1000	43	160	Y315M2-4		220			280	
300-560	A							1400	100	560			710			1000	
	B							1350	94	500			630			900	
	C							1200	75	355			400			560	
	D							1100	50	200			250			400	
300-630	A							1500	134								
	B							1450	124								
	C							1300	98								
	D							1050	72								
400-500	A							1850	73	560			710			1000	
	B							1800	66	450			630			800	
	C							1500	51	280			400			530	
	D							1200	39	185			250			315	
400-560	A							2000	96	710			1000			1250	
	B							1900	90	630			900			1120	
	C							1750	71	450			630			900	
	D							1450	52	180			400			530	
400-630	A							2400	122	1120			1400			1800	
	B							2300	113	1000			1250			1800	
	C							2000	90	710			800			1000	
	D							1600	67	400			560			710	



Pumps & Systems



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Pumps & Systems

SOA Series foot-mounted single-stage cantilever type standard chemical pump (OH 1)



Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

● Overview

Series SOA is a horizontal foot-mounted single-stage single-suction cantilever type centrifugal pump. It is the standard chemical pump widely used in chemical industry for pumping acidic, alkaline and salt solutions and other liquid petrochemical products. This series is used for pumping clean media or slightly contaminated media.

Series SOA pumps comply with the standards API610 and ISO2858.

● Application range

Mainly used in petroleum refineries and petrochemical, chemical, oil chemical, synthetic fiber and foodstuff industries and other applications, and also used for pumping petroleum and its products, as well as highly corrosive mid- and low-temperature media in a broad range of chemical process flows.

● Technical

- ◎ Capacity Q: up to 25 ~ 2000 m³/h
- ◎ Head H: up to 15 ~ 160 m
- ◎ Pressure P: up to 2.5 MPa
- ◎ Temperature t: -80 ~ +150 °C

● Materials

Main materials: S-3, S-5, S-6, S-8, S-9, C-6, A-7, A-8, D-1, D-2 or other materials.

● Sealing

All layouts and systems to API682 are available.

● Direction of rotation

The pump can be manufactured as clockwise rotation from the view of driving end or as required by the customer.

● Features

SOA series petrochemical processing pump is mainly structured with radial split. Its casing is designed to be foot support (SOB) and centerline support. The casing with larger than 80 mm (including 80mm)-diameter is designed double-volute, which can balance the radial thrust. The pressure chamber forms by means of the connecting of casing and casing cover, which makes the pump operate safely and reliably.

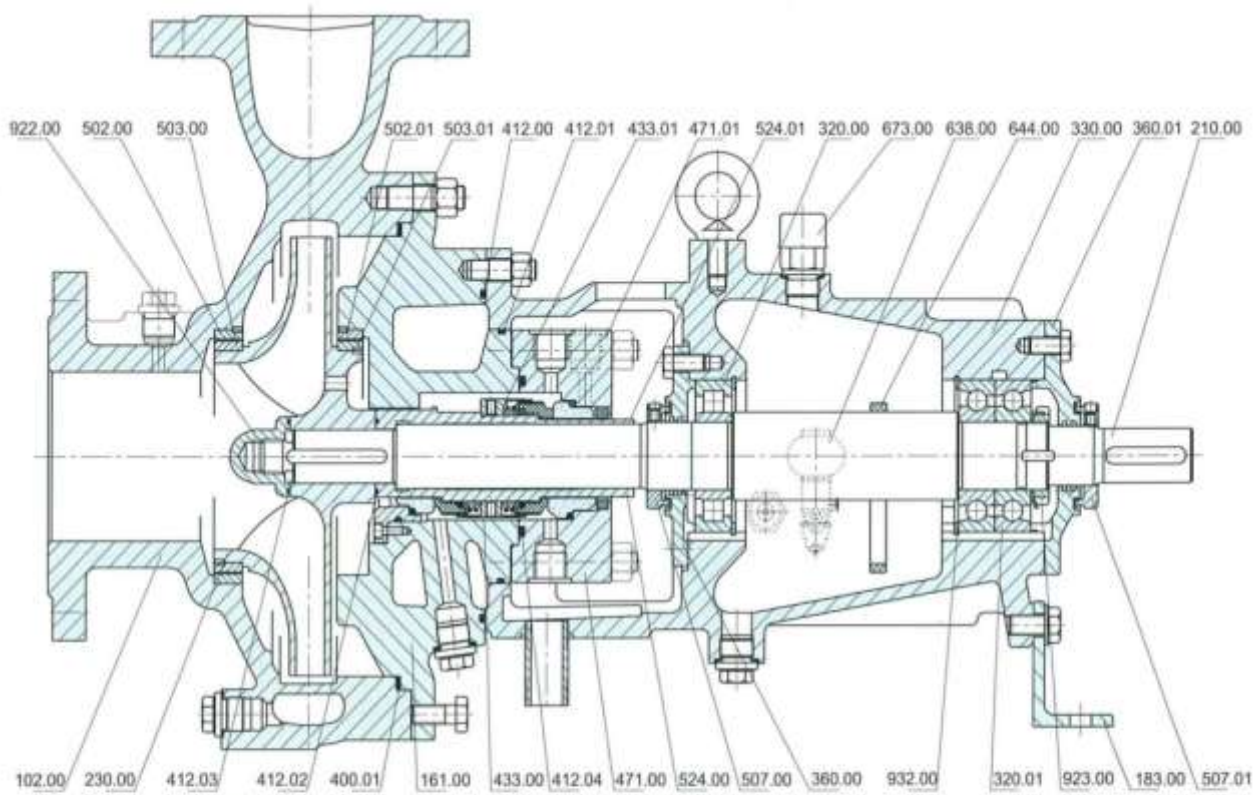
The pump can be equipped with heat-protection (cooling) sleeve. There is cooling water chamber on the casing cover which reserve the heat of pump chamber and enlarge the application range. Impeller has open or close style when pumping different fluid. The wearing and balance hole in the impeller can balance axial thrust. The inducer can improve the NPSH performance.

The material of bearing housing is cast iron or cast steel (special condition). The bearing is lubricated with oil. The constant level oiler is equipped with the bearing house can control oil level automatically. The end bearing is selected by operation pressure and suction pressure, either diagonal touching ball bearing or taper roller bearing. There are three kinds of cooling methods: air cooling, water cooling and wind cooling which can be applied in different operation condition.

Seal chamber is designed totally according to API682 accommodating ripple seal, single-end and double-end mechanical seal which can be equipped with various flushing plans.

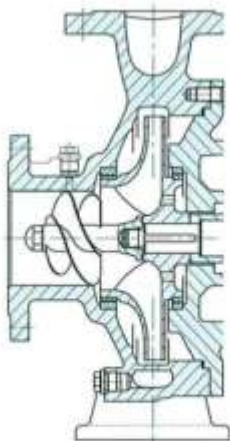
The pump rotation direction is CW viewing from the driving side.

Section Drawing

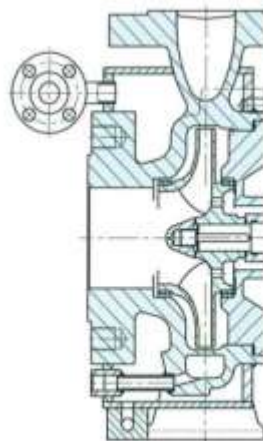


102.00	Pump Casing	320.01	Bearing	412.01	O-Ring	433.00	Mechanical Seal	503.00	Impeller Wear Ring	638.00	Constant Level Oiler
161.00	Pump Cover	330.00	Bearing House	412.02	O-Ring	433.01	Mechanical Seal	503.01	Impeller Wear Ring	644.00	Lubricating Ring
183.00	Foot	360.00	Bearing Cover	412.03	O-Ring	471.00	Seal Cover	507.00	Deflector	673.00	Oil Filter
210.00	Shaft	360.01	Bearing Cover	412.04	O-Ring	471.01	Seal Cover	507.01	Deflector	922.00	Impeller Nut
230.00	Impeller	400.01	Flat Gasket	412.05	O-Ring	502.00	Casing Wear Ring	524.00	Shaft Sleeve	923.00	Circular Nut
320.00	Bearing	412.00	O-Ring	420.00	Cooling Water Sleeve	502.01	Cover Wear Ring	524.01	Shaft Sleeve	932.00	Retainer

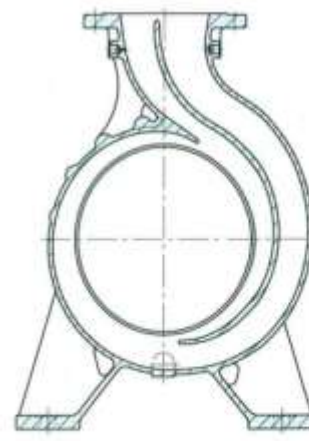
SOA Series Different structures



With inducer



Casing with heat keeping sleeve



Foot support

Range of Performance

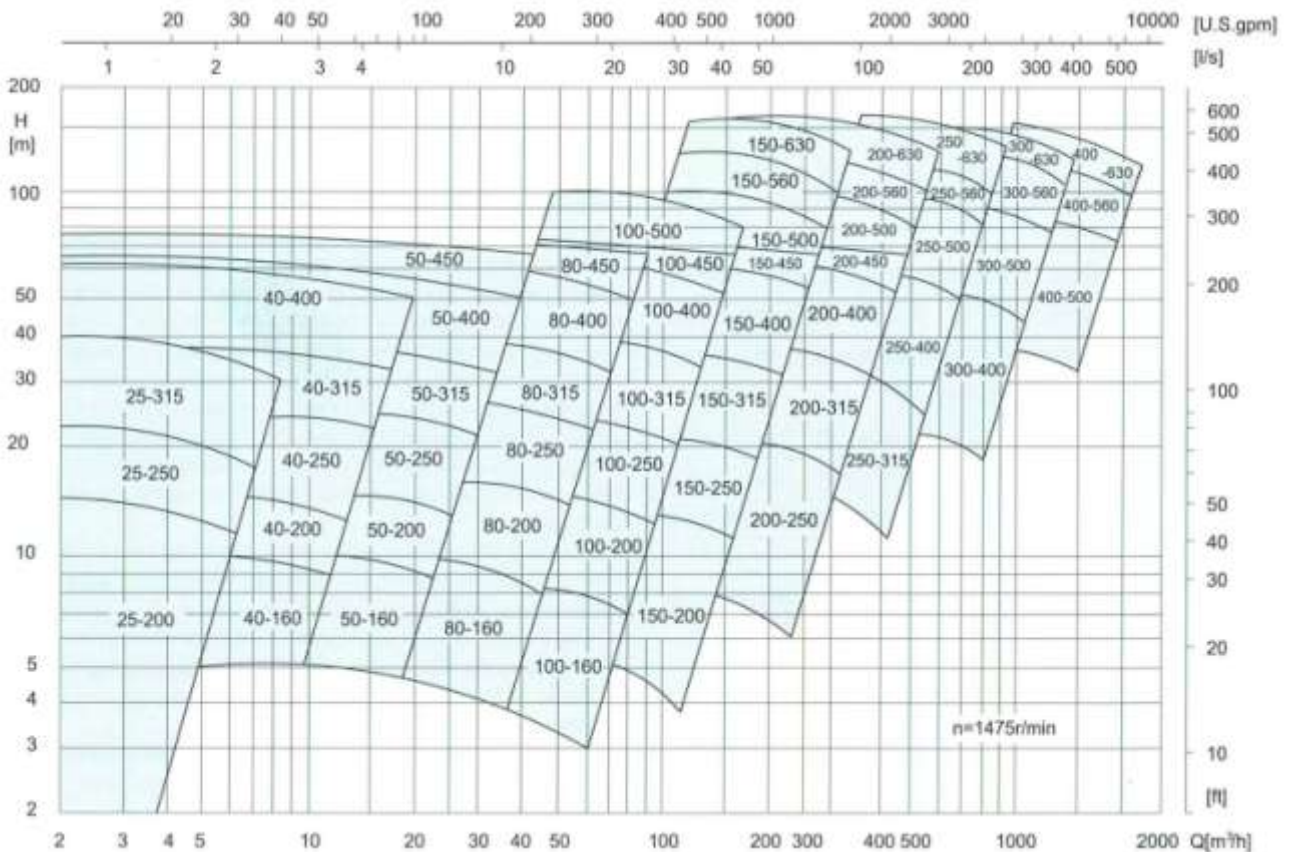
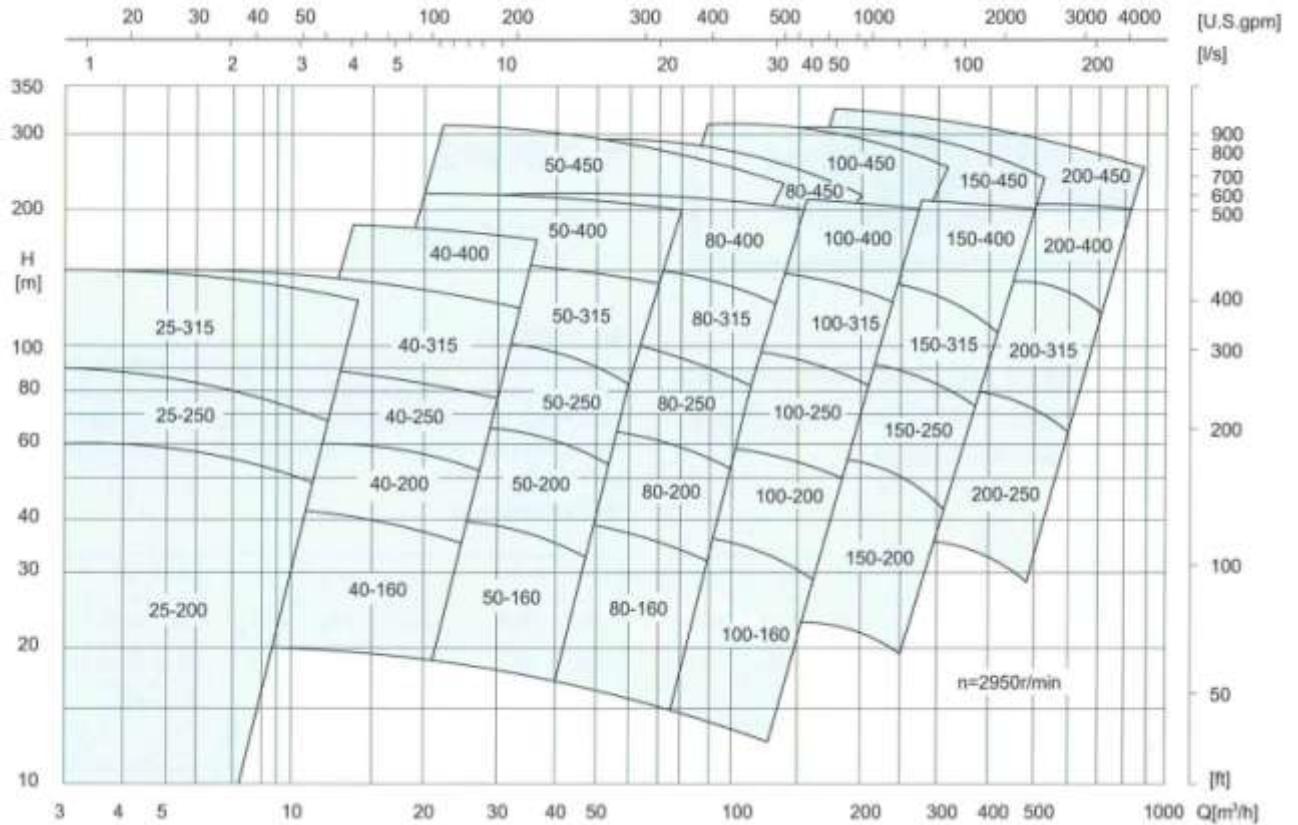


Table of Standard Performance

型号 Type	叶轮 代号 SY	流量 Q m³/h	扬程 H m	转速 Speed 2950r/min								流量 Q m³/h	扬程 H m	转速 Speed 1475r/min									
				比重Proportion1.0		比重Proportion1.35		比重Proportion1.84		比重Proportion1.0				比重Proportion1.35		比重Proportion1.84							
				电机功率(kW)及型号 Power and Type																			
25-200	A	11	52	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	5.8	12.5	1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4						
	B	10	45	4	Y112M-2	5.5	Y132S1-2	7.5	Y132S2-2	5	11												
	C	8.5	38	3	Y100L-2	4	Y112M-2	5.5	Y132S1-2	4.5	9.5												
	D	7	30	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	4	7												
	E	5.5	18	1.5	Y90S-2	1.5	Y90S-2	2.2	Y90L-2	3	4												
25-250	A	16	82	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	8	22	2.2	Y100L-4	3	Y100L2-4	4	Y112M-4						
	B	15	75		7.5	18																	
	C	13	53	11	Y160M1-2	15	Y160M2-2	22	Y180M-2	6.5	14.5	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4						
	D	11	40	11	Y160M1-2	15	Y160M2-2	15	Y160M2-2	5.5	10.5	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4						
25-315	A	19	128	30	Y200L1-2	37	Y200L2-2	55	Y250M-2	9.5	9.32	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4						
	B	17.5	117	30	Y200L1-2	37	Y200L2-2	45	Y225M-2	8.8	29	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4						
	C	15	105	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	8	24	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4						
	D	14	90	18.5	Y160L-2	30	Y200L1-2	37	Y200L2-2	7	22	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4						
	E	13	80	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	6.5	20	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4						
	F	12	65	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	5.8	16	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4						
40-160	A	27	32	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	13.5	8	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4						
	B	25	28		12.5	7																	
	C	22	21	4	Y112M-2	5.5	Y132S1-2	5.5	Y132S1-2	11	5												
	D	19	16	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	10	3.5												
40-200	A	34	51	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	17	12.5	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4						
	B	31	46	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	16	11	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4						
	C	26	36	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	14	8.5	1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4						
	D	23	27	4	Y112M-2	5.5	Y132S1-2	7.5	Y132S2-2	12	6	1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4						
40-250	A	35	75	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2	17.5	19	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4						
	B	33	70	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	16.5	18	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4						
	C	29	54	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	15	13	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4						
	D	24	38	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	12.5	9	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4						
40-315	A	42	120	37	Y200L2-2	45	Y225M-2	75	Y280S-2	20	30	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4						
	B	40	108	30	Y200L1-2	45	Y225M-2	55	Y250M-2	18	27	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4						
	C	32	85	22	Y180M-2	30	Y200L1-2	45	Y225M-2	15	22	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4						
	D	29	60	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	13	18	3	Y100L2-4	3	Y100L2-4	5.5	Y132S-4						
40-400	A	42	200	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	20	50	15	Y160L-4	22	Y180L-4	30	Y200L-4						
	B	36	190	75	Y280S-2	110	Y315S-2	160	Y315M2-2	17	45	11	Y160M-4	15	Y160L-4	22	Y100L1-4						
	C	32	155	55	Y250M-2	75	Y280S-2	110	Y315S-2	15	35	7.5	Y132M-4	11	Y160M-4	15	Y160L-4						
	D	28	120	45	Y225M-2	75	Y280S-2	90	Y280M-2	13	25	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4						
50-160	A	50	33	11	Y160M1-2	15	Y160M2-2	15	Y160M2-2	25	8	1.5	Y90L-4	2.2	Y100L1-4	2.2	Y100L1-4						
	B	44	29	7.5	Y132S2-2	11	Y160M1-2			22	7												
	C	38	21	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	19	5							1.1	Y90S-4	1.1	Y90S-4	1.5	Y90L-4
	D	30	17	3	Y100L-2	4	Y112M-2	5.5	Y132S1-2	16	4												
50-200	A	60	52	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2	30	12.5	3	Y100L2-4	3	Y100L2-4	4	Y112M-4						
	B	55	46	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	28	11	2.2	Y100L1-4										
	C	50	36	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	25	9	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4						
	D	40	28	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	21	7	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4						
50-250	A	70	80	30	Y200L1-2	37	Y200L2-2	55	Y250M-2	35	20	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4						
	B	65	72		45	Y225M-2	33	18															
	C	60	60	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	30	15	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4						
	D	50	42	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	28	10	2.2	Y100L1-4	3	Y100L2-4	3	Y100L2-4						
50-315	A	85	115	55	Y250M-2	75	Y280S-2	110	Y315S-2	43	28	11	Y160M-4	11	Y160M-4	15	Y160L-4						
	B	80	100	45	Y225M-2			90	Y280M-2	40	24	7.5	Y132M-4										
	C	68	78	30	Y200L1-2	45	Y225M-2	55	Y250M-2	35	18	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4						
	D	55	58	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	30	13	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4						
50-400	A	90	185	110	Y315S-2	160	Y315M2-2			46	50	18.5	Y180M-4	22	Y180L-4	30	Y200L-4						
	B	85	165	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	44	46	15	Y160L-4	18.5	Y180M-4	30	Y200L-4						
	C	75	150	75	Y280S-2	110	Y315S-2	132	Y315M1-2	40	36	11	Y160M-4	15	Y160L-4	18.5	Y180M-4						
	D	70	130	75	Y280S-2	90	Y280M-2	132	Y315M1-2	34	27	7.5	Y132M-4	11	Y160M-4	15	Y160L-4						
	E	65	110	55	Y250M-2	75	Y280S-2	110	Y315S-2														
50-450	A	135	250	220		185		400		67	63	30	Y200L-4	45	Y225M-4	55	Y250M-4						
	B	125	220	185		250		315		63	55	30	Y200L-4	37	Y225S-4	45	Y225M-4						
	C	115	188	132	Y315M-2	185		250		57	46	18.5	Y180M-4	30	Y200L-4	37	Y225S-4						
	D	95	130	90	Y180M-2	110	Y315S-2	160	Y315L1-2	48	32	11	Y160M-4	18.5	Y180M-4	22	Y180L-4						

Table of Standard Performance

型号 Type	叶轮代号 SY	流量 Q m ³ /h	扬程 H m	转速 Speed 2950r/min								流量 Q m ³ /h	扬程 H m	转速 Speed 1475r/min					
				比重Proportion1.0		比重Proportion1.35		比重Proportion1.84		比重Proportion1.0				比重Proportion1.35		比重Proportion1.84			
				电机功率(kW)及型号 Power and Type										电机功率(kW)及型号 Power and Type					
80-160	A	100	30	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	50	8	2.2	Y100L2-4	3	Y100L2-4	4	Y112M-4		
	B	90	27	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	45	6.5		2.2	Y100L1-4	3	Y100L2-4			
	C	80	22			11	Y160M1-2	15	Y160M2-2	40	5.5	1.5	Y90L-4	1.1	Y90S-4	2.2	Y100L1-4		
	D	70	18	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	30	4.5	1.1	Y90S-4			1.5	Y90L1-4		
80-200	A	100	54	30	Y200L1-2	37	Y200L2-2	55	Y250M1-2	50	13	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	B	90	48	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	46	12.5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
	C	80	38	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	40	9.5	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4		
	D	70	29	11	Y160M1-2	15	Y160M2-2	22	Y180M2-2	36	7	1.5	Y90L2-4	2.2	Y100L1-4	3	Y100L2-4		
80-250	A	120	80	45	Y225M-2	75	Y280S-2	90	Y280M-2	60	20	7.5	Y132M-4	11	Y160M-4	15	Y160L-4		
	B	115	72			55	Y250M-2	75	Y280S-2	57	18			7.5	Y132M-4	11	Y160M-4		
	C	105	55	30	Y200L1-2	45	Y225M-2	55	Y250M-2	50	14	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	D	85	42	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	42	10	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
80-315	A	130	120	90	Y280M-2	110	Y315S-2	185		65	30	15	Y160L-4	18.5	Y180M-4	22	Y180L-4		
	B	125	112	75	Y280S-4	90	Y280M-2			62	28	11	Y160M-4	15	Y160L-4				
	C	110	88	55	Y250M-2	75	Y280S-2			55	22		Y160M-4	11	Y160M-4	15	Y160L-4		
	D	85	65	37	Y200L2-2	45	Y225M-2	75	Y280S-2	42	16	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
80-400	A	160	168	160	Y315M2-2	160	Y315M2-2	315		85	46	22	Y180L-4	30	Y200L-4	45	Y225M-4		
	B	150	145	132	Y315M1-2	160	Y315M2-2	220		80	41	18.5	Y180M-4			37	Y225S-4		
	C	135	125	110	Y315S-2	132	Y315M1-2	185		65	33	15	Y160L-4	18.5	Y180M-4	30	Y200L-4		
	D	125	105	90	Y280M-2	110	Y315S-2	160	Y315M2-2	52	24	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
	E	120	90	75	Y280S-2	110	Y315S-2	132	Y315M1-2										
80-450	A	200	229	350		450		630		103	60	37	Y225S-4	55	Y250M-4	75	Y280S-4		
	B	188	205	220		280		400		98	57	37	Y225S-4	45	Y225M-4	75	Y280S-4		
	C	178	188	185		250		355		83	47	30	Y200L-4	30	Y200L-4	45	Y225M-4		
	D	160	158	160	Y315M2-2	200		250		70	32	15	Y160L-4	22	Y180L-4	30	Y200L-4		
	E	142	128	110	Y315S-4	132	Y315M-4	180											
100-160	A	160	28	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	80	7	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4		
	B	150	24	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	72	5.5	2.2	Y100L1-2	3	Y100L2-4	4	Y112M-4		
	C	130	17	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	60	4	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4		
	D	100	13	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	50	3.5	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4		
100-200	A	170	49	45	Y225M-2	50	Y250M-2	75	Y280S-2	85	12	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4		
	B	160	43	37	Y200L2-2	45	Y225M-2			80	10.5								
	C	150	32	30	Y200L1-2	37	Y200L2-2	45	Y225M-2	75	8	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4		
	D	130	24	18.5	Y160L-2	30	Y200L1-2	37	Y200L2-2	65	6	3	Y100L2-4	3	Y100L2-4	4	Y112M-4		
100-250	A	230	77	75	Y280S-2	90	Y280M-2	132	Y315M1-2	115	19	11	Y160M-4	15	Y160L-4	18.5	Y180M-4		
	B	220	70							110	17			11	Y160M-4	15	Y160L-4		
	C	190	55	45	Y225M-2	75	Y280S-4	90	Y280M-2	100	13	7.5	Y132M-4			11	Y160M-4		
	D	170	44	37	Y200L2-2	45	Y225M-2	75	Y280S-2	90	10	5.5	Y132S-4	7.5	Y132M-4	7.5	Y132M-4		
100-315	A	250	125	132	Y315M1-2	185		250		125	31	18.5	Y180M-4	30	Y200L-4	37	Y225S-4		
	B	235	117	132	Y315M1-2	160	Y315M2-2	220		120	29			22	Y180L-4	30	Y200L-4		
	C	200	95	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	105	23	15	Y160L-4	18.5	Y180M-4	22	Y180L-4		
	D	165	70	75	Y280S-2	75	Y280S-2	110	Y315S-2	85	16	11	Y160M-4	11	Y160M-4	15	Y160L-4		
100-400	A	280	190	250		315		450		145	49	37	Y225S-4	45	Y225M-4	75	Y280S-4		
	B	260	170	200		280		355		135	47	37	Y225S-4			55	Y250M-4		
	C	240	150	160	Y315M2-2	220		315		120	36	22	Y180L-4	30	Y200L-4	45	Y225M-4		
	D	215	130	132	Y315M1-2	185		250		100	29	15	Y160L-4	22	Y180L-4	30	Y200L-4		
	E	205	110	110	Y315S-2	160	Y315M2-2	200											
100-450	A	330	258	380		560		710		167	64	55	Y250M-4	75	Y280S-4	110	Y315S-4		
	B	310	242	350		500		630		155	60	45	Y225M-4	75	Y280S-4	90	Y280M-4		
	C	260	200	250		315		450		132	50	37	Y225S-4	45	Y225M-4	75	Y280S-4		
	D	200	145	132	Y315M-2	185		250		102	37	22	Y180L-4	30	Y200L-4	37	Y225S-4		
100-500	A									175	76	75	Y280S-4	90	Y280M-4	132	Y315M1-4		
	B									165	72	75	Y280S-4	90	Y280M-4	110	Y315S-4		
	C									150	54	45	Y225M-4	75	Y280S-4	90	Y280M-4		
	D									125	42	30	Y200L-4	45	Y225M-4	55	Y250M-4		

Table of Standard Performance

型号 Type	叶轮 代号 SY	流量 Q m³/h	扬程 H m	转速 Speed 2950r/min						流量 Q m³/h	扬程 H m	转速 Speed 1475r/min					
				比重Proportion1.0		比重Proportion1.35		比重Proportion1.84				比重Proportion1.0		比重Proportion1.35		比重Proportion1.84	
				电机功率(kW)及型号 Power and Type													
150-200	A	300	45	55	Y250M-2	75	Y280S-2	110	Y315S-2	150	11.5	7.5	Y132M-4	11	Y160M-4	15	Y160L-4
	B	280	40	45	Y225M-2			90	Y280M-2	140	9.5						
	C	260	30	37	Y200L2-2	45	Y225M-2	75	Y280S-2	130	7.5	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4
	D	200	24	22	Y180M-2	30	Y200L1-2	45	Y225M-2	115	5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
150-250	A	380	74	110	Y315S-2	160	Y315M2-2	200		190	18	15	Y160L-4	22	Y180L-4	30	Y200L-4
	B	350	60	90	Y280M-2	110	Y315S-2	160	Y315M2-2	180	15		18.5	Y180M-4	22	Y180L-4	
	C	300	48	75	Y280S-2	90	Y280M-2	110	Y315S-2	150	12	11	Y160M-4	11	Y160M-4	15	Y160L-4
150-315	A	440	124	220		280		400		220	31	30	Y200L-4	45	Y225M-4	55	Y250M-4
	B	420	115	185		250		355		210	29			37	Y225S-4		
	C	380	90	160	Y315M2-2	185		250		190	22	22	Y180L-4	30	Y200L-4	37	Y225S-4
	D	340	65	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	170	16	15	Y160L-4	18.5	Y180M-4	22	Y180L-4
150-400	A	500	190	380		560		710		160	50	55	Y250M-4	75	Y280S-4	110	Y314S-4
	B	480	170	355		450		630		150	46					90	Y280M-4
	C	460	148	280		400		500		220	38	37	Y225S-4	55	Y250M-4	75	Y280S-4
	D	420	130	220		315		400		190	28	30	Y200L-4	37	Y225S-4	55	Y250M-4
	E	400	110	185		250		355									
150-450	A	538	250	560		800		1120		270	64	75	Y250S-4	110	Y315S-4	160	Y315L1-4
	B	490	230	500		710		900		260	62	75	Y250S-4	110	Y315S-4	132	Y315M-4
	C	450	210	400		560		800		230	52	55	Y250M-4	75	Y280S-4	110	Y315S-4
	D	390	175	315		400		560		170	36	22	Y180L-4	37	Y225S-4	55	Y250M-4
	E	340	150	220		315		400									
150-500	A									300	75	110	Y315S-4	132	Y315M1-4	185	
	B									280	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-4
	C									240	56	75	Y280S-4	90	Y280M-4	110	Y315S-4
	D									200	44	45	Y225M-4	75	Y280S-4	75	Y208S-4
150-560	A									300	97	160	Y315M2-4	185		250	
	B									290	91	132	Y315M1-4	160	Y315M2-4	220	
	C									260	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-4
	D									220	54	75	Y280S-4	90	Y315S-4	110	Y315S-4
150-630	A									360	113	220		280		400	
	B									340	103	185		250		355	
	C									280	78	132	Y315M1-4	160	Y315M2-4	200	
	D									220	58	75	Y280S-4	110	Y315S-4	160	Y315M2-4
200-250	A	600	70	160	Y315M2-2	220		315		300	17.5	22	Y180L-4	30	Y200L-4	45	Y225M-4
	B	570	62	160	Y315M2-2	185		250		285	16	18.5	Y180M-4	30	Y200L-4	37	Y225S-4
	C	520	46	110	Y315S-2	132	Y315M1-2	185		250	12	15	Y160L-4	18.5	Y180M-4	30	Y200L-4
	D	460	32	75	Y280S-2	90	Y280M-2	110	Y315S-2	230	8	11	Y160M-4	15	Y160L-4	15	Y160L-4
200-315	A	650	122	315		400		560		330	30	45	Y225M-4	55	Y250M-4	75	Y280S-4
	B	630	114	280		355		500		320	28	37	Y225S-4	55	Y250M-4	75	Y280S-4
	C	580	88	200		250		355		300	22	30	Y200L-4	37	Y225S-4	55	Y250M-4
	D	500	65	132	Y315M1-2	180		220		260	15	18.5	Y180M-4	22	Y180L-4	30	Y200L-4
200-400	A	820	190	630		900		1120		420	50	90	Y280M-4	110	Y315S-4	160	Y315M2-4
	B	760	162	500		710		900		400	47	75	Y280S-4	110	Y315S-4	132	Y315M1-4
	C	720	145	450		560		1120		360	36	55	Y250M-4	75	Y280S-4	110	Y315S-4
	D	660	128	355		450		630		320	27	45	Y225M-4	55	Y250M-4	75	Y280S-4
	E	600	108	280		355		500									
200-450	A	940	255	1000		1400		1600		460	65	132	Y315M-4	185		250	
	B	880	240	900		1120		1800		442	62	110	Y315S-4	160	Y315L1-4	220	
	C	760	205	630		900		1600		382	48	75	Y280S-4	90	Y280M-4	160	Y315L1-4
	D	570	145	355		450		630		310	34	45	Y225M-4	75	Y280S-4	90	Y280M-4
200-500	A									500	80	160	Y315M2-4	220		315	
	B									480	75			200		315	
	C									440	68	132	Y315M1-4	160	Y315M2-4	220	
	D									420	57	110	Y315S-4	132	Y315M1-4	185	
	E									360	43	75	Y280S-4	110	Y315S-4	132	Y315M1-4

Table of Standard Performance

型号 Type	叶轮 代号 SY	流量 Q m³/h	扬程 H m	转速 Speed 2950r/min						转速 Speed 1475r/min						
				比重Proportion1.0		比重Proportion1.35		比重Proportion1.84		比重Proportion1.0		比重Proportion1.35		比重Proportion1.84		
				电机功率(kW)及型号 Power and Type						电机功率(kW)及型号 Power and Type						
200-560	A							550	96	220			280			400
	B							500	85	185			250			315
	C							440	68	160	Y315M2-4		185			200
	D							360	52	110	Y315S-4	132	Y315M1-4	160	Y315M2-4	
200-630	A							580	132	315			450			630
	B							560	123	315			400			560
	C							500	96	200			280			400
	D							420	70	132	Y315M1-4	160	Y315M2-4	220		
250-315	A							540	26	55	Y250M-4	75	Y280S-4	110	Y315S-4	
	B							520	25	55	Y250M-4	75	Y280S-4	90	Y280M-4	
	C							460	19	37	Y250S-4	55	Y250M-4	75	Y280S-4	
	D							420	13	30	Y200L-4	37	Y225S-4	45	Y225M-4	
250-400	A							700	48	132	Y315M1-4	185			220	
	B							660	44	132	Y315M1-4	160	Y315M2-4	200		
	C							600	35	90	Y280M-4	132	Y315M1-4	160	Y315M2-4	
	D							500	25	75	Y280S-4	90	Y280M-4	110	Y315S-4	
250-500	A							800	80	250			355			630
	B							750	75	220			315			560
	C							680	56	160	Y315M2-4	200			280	
	D							580	42	110	Y315S-4	160	Y315M2-4	185		
250-560	A							850	104	355			500			630
	B							820	96	315			450			560
	C							750	76	220			315			500
	D							620	56	160	Y315M2-4	220			315	
250-630	A							850	124	450			560			800
	B							800	117	400			500			710
	C							700	94	280			255			500
	D							600	70	185			220			280
300-400	A							1050	47	185			280			355
	B							1000	44	160	Y315M2-4	220			315	
	C							900	33	132	Y315M1-4	160	Y315M2-4	200		
	D							720	26	90	Y280M-4	132	Y315M1-4	160	Y315M2-4	
300-500	A							1250	81	400			530			710
	B							1200	76	355			450			630
	C							1100	58	250			315			450
	D							1000	43	160	Y315M2-4	220			280	
300-560	A							1400	100	560			710			1000
	B							1350	94	500			630			900
	C							1200	75	355			400			560
	D							1100	50	200			250			400
300-630	A							1500	134							
	B							1450	124							
	C							1300	98							
	D							1050	72							
400-500	A							1850	73	560			710			1000
	B							1800	66	450			630			800
	C							1500	51	280			400			530
	D							1200	39	185			250			315
400-560	A							2000	96	710			1000			1250
	B							1900	90	630			900			1120
	C							1750	71	450			630			900
	D							1450	52	180			400			530
400-630	A							2400	122	1120			1400			1800
	B							2300	113	1000			1250			1800
	C							2000	90	710			800			1000
	D							1600	67	400			560			710



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