







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: $32\sim300$ mm

Capacity $Q : \sim 2000 \text{ m}$ %h

Heads H: \sim 160m

Operating Pressure P: \sim 2.SMpa Operating Temperature T: \sim 2 6 0 °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.

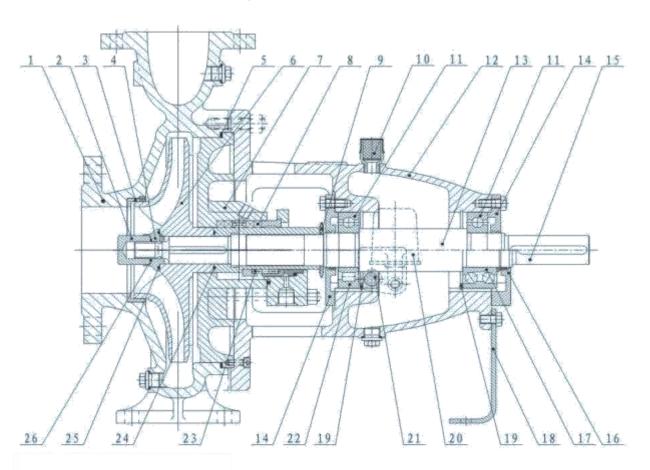
Symbol SOC—50—250 Impeller diameter mm Discharge Branch mm Series

Product Features

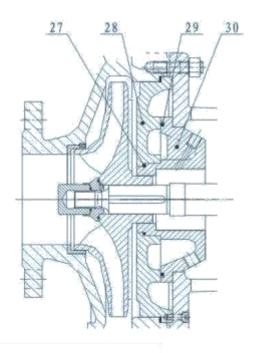
- Hydraulic design the axial force is balanced by back vanes or balancing bores at the impeller. for some sizes, the casing is designed double volute to compensate the radial forces.
- Shaft seal design the shaft is sealed either by soft packing or by single or double mechanical seal with various flush plans. The secondary impeller seal will be designed when necessary.
- Flange grade the suction branch and discharge branch are the same pressure grade. PN2.SMpa 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.



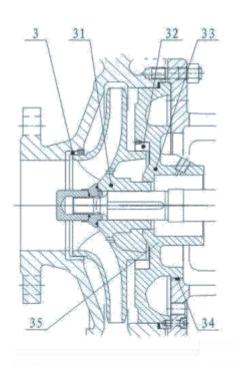
SOC Sectional Drawings



Impeller with back vanes, stuffing box uncooled



Impeller with back vanes, stuffing box cooled



Impeller with balancing bores, stuffing box cooled/uncooled

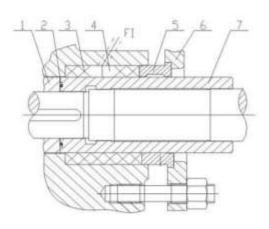


Pump parts list

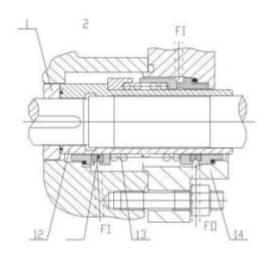
- 1 casing
- ☆ 3 wearing ring
- #5 gasket
- ☆ 6 impeller
 - 7 casing cover
- - 9 deflector
 - 10 oil filling plug
 - 11 bearing
 - 12 bearing bracket
 - 13 shaft
 - 14 bearing cover
 - 15 shaft
 - 16 circlip
 - 17 bearing
 - 18 foot
 - 19 circlip
 - 20 constant level oiler
 - 21 oil level indicator
 - 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
- ★ 32 wearing ring
 - 33 casing cover
- \$ 34 O-ring
 - 35 casing cover

☆Being spare parts

Shaft Seal Drawings



Packed stuffing box



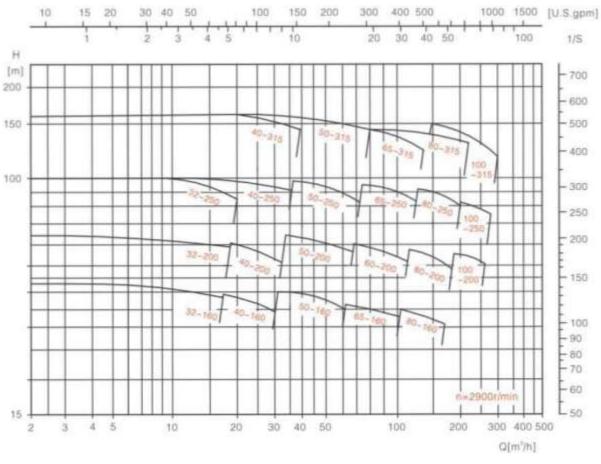
Single/Double mechanical seals

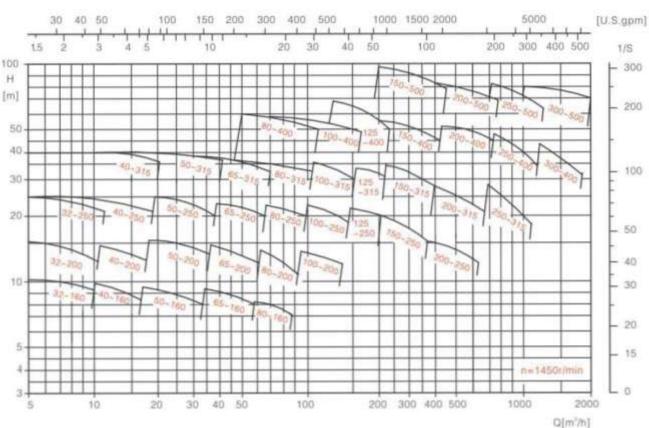
Shaft seal parts list

- 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



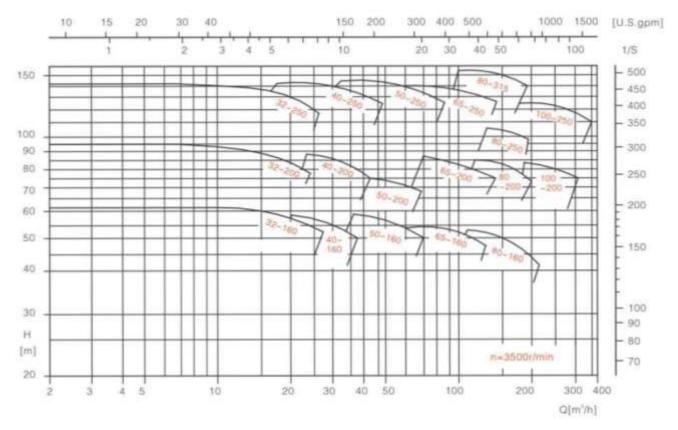
SOC Performance Charts (50Hz)

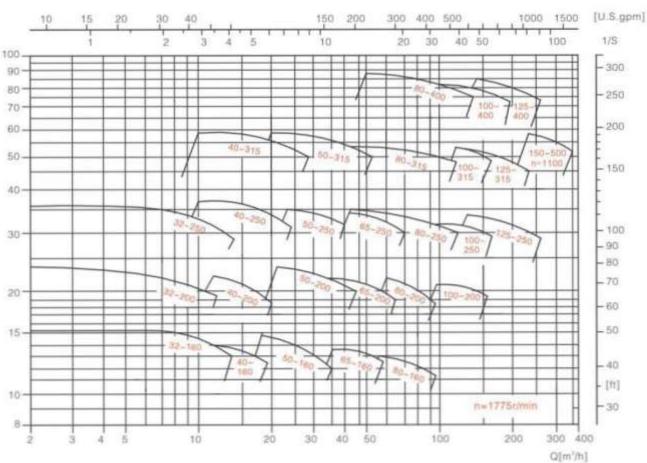






SOC Performance Charts (60Hz)







	topeller			10.0	Speed	-		W				10.		-	1450r/mir	_	2 5
Type	1.55	Flow	Head	Propo	ortion ₂ -1.0		rtion γ=1.35	-	rtion >=1.85			Propo	rtion y-1.0		rtion y=1.36	-	rtion y=1.8
	SY.	Q	н		Ppw		d Type(K	100000		Q	Н		Ppv		d Type(K		
		m1/h	m	kW		kW		kW		m³/h	m	kW		kW		kW	
	Α	20	36	4	Y112M-2	5.5	Y132S-2	7,5	Y132S ₂ -2	11	9					1.5	Y90L-
	В			_		-				10	8						
32-160	С	17	28	3	Y100L-2	4	Y112M-2	5.5	Y132S ₁ -2	9	7	131	Y90S-4	1.1	Y90S-4		
	D	15	20	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	6	5		****			1.1	Y90S
	E	13	14		12111111111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-0		6	3					55020	Schilledonine
	A	20	50	7.5	Y13252-2	-11	Y160M1-2	15	Y160M ₂ -2	10	13					2.2	Y100L
32-200	В	18	48	-			*******	11	Y160M,-2	9	12	1.5	Y90L-4	1.5	Y90L-4	0.00	10-40000
	С	16	40	5.5	Y132S,-2	7.5	Y132S ₂ -2	7.0		8	10	33325	No Series		Constitution.	1.5	Y90L
	D	15	30	4	Y112M-2	5.5	Y132S ₁ -2	7.5	Y132S ₂ -2	8	8						
	Α	20	85	15	Y160Mz-2	18.5	Y160L-2	30	Y200L ₁ -2	11	20			3	Y100L-4	4	Y112N
32-250	В	20	75							10	19	2.2	Y100L-4				
	С	18	65	11	Y160M:-2	15	Y160M ₂ -2	18.5	Y160L-2	9	15	-	11000	2.2	Y100L-4	3	Y110L
	D	15	50	7.5	Y132S ₁ -2	11	Y160M+2	15	Y160M ₂ -2	8	11			30/35	STATE TOTAL	2.2	Y100L
	A	30	34	7.5	Y132S₂-2	11	Y160M-2	15	Y160M ₂ -2	15	8					1.5	Y90L
40-160	В	28	30	5.5	Y132S ₁ -2	7.5	Y132S2-2	11	Y160M ₁ -2	15	7	1.1	Y90S-4	1.1	Y90S-4	1.0	1300
40 100	C	16	26		.,,,,,,	5.5	Y132S-2	7.5	Y132Sz-2	14	6	2000	1,000	2000	1,000	1.1	Y90S
	D	14	18	3	Y100L-2	9.0	1 1020 2	5.5	Y132S ₁ -2	12	4					1244	1000
	Α	34	50	11	Y160M ₁ -2	15	Y160M ₂ -2			16	13	1.5	Y90L-4	1.5	Y90L-4	2.2	Y100L
40-200	В	30	48	7.5	Y132S ₂ -2	11	Y160M ₁ -2	15	Y160M₂-2	15	12			150	1 00C-4	2.2	T TOOL
40-200	C	26	38		V4220 2	76	Y132S ₂ -2	41	Y160M-2	14	9	1,1	Y90S-4	1.1	Y90S-4	1.5	Y90L
	D	22	30	5.5	Y132S ₁ -2	7.5	TISZSTZ	11	1 TOUWH-2	12	7			1.4	1803-4	1.1	Y90S
	A	36	85	22	Y180M-2	30	Y200L-2	45	Y225M-2	20	21	4	Y112M-4	5.5	Y132S-4		Vanne
	В	34	80	18.5	Y160L-2	22	Y180M-2	37	Y200L ₂ -2	18	20	3	Y100L-4	4	Y112M-4	5.5	Y1328
40-250	C	30	65	15	Y160Mz-2	18.5	Y160L-2	30	Y200L ₁ -2	16	15	2520	average of	3	Y100L-4	4	Y112N
	D	26	50	11	Y160M-2	15	Y160M ₇ -2	18.5	Y160L-2	13	12	2.2	Y100L-4	2.2	Y100L-4	2.2	Y100L
	A	46	140	45	Y225M-2	55	Y250M-2			22	36	11	Y160M-4				
	В	44	130	37	Y200L ₂ -2	45	Y225M-2			22	32	5.5	Y132S-4	11	Y160M-4	11	Y160N
40-315	C	40	100	20000	200000000000000000000000000000000000000	37	Y200L2-2	37	Y200L-2	20	24	Te.		5.5	Y132S-4	220	COCCUES
	D	34	80	30	Y200Li-2	30	Y200L ₁ -2	37	Y200L-2	18	18	4	Y112M-4	4	Y112M-4	5.5	Y1325
	A	55	34	11	Y160M-2					30	8	1.5	Y90L-4	22	Y100L-4	3	Y100L
	В	50	30	7.5	Y132S ₂ -2	11	Y160Mi-2	15	Y160L-2	26	7			1.5	Y90L-4	22	Y100L
50-160	С	46	26	30,500		7.5	Y132S ₂ -2	11	Y160M-2	24	6	1.1	Y90S-4	124.00		1.5	Y90L
	-	40	18	5.5	Y132S ₁ -2	5.5	Y132S-2	7.5	Y132S-2	20	4	105.00	The second	1.1	Y90S-4	1.1	Y90S
	L.F.		100								14	3	Y100L-4	4	Y112M-4	5.5	Y1325
	A	65		18.5	Y160L-2								1 1 1 1 1 1 1	-	2.1.500.2	414	
	Α	65	56	-	Y160L-2 Y160M-2	18.5	Y160L-2			34	12	22	Y100L-4	3	Y100L-4	4	Y112N
50-200	A B	65 65	56 50	15	Y160Mz-2	-	Y160L-2 Y160M2	18.5	Y160L-2	34 30	12	2.2	Y100L-4	3	Y100L-4	3	
50-200	A B C	65 65 50	56 50 40	15 11	Y160M₂-2 Y160M₁-2	15	Y160M _F -2		Y160L-2 Y160M-2	30	10	1.5	Y100L-4 Y90L-4	2.2	Y100L-4	3	Y100L
50-200	A B C D	65 65 50 40	56 50 40 32	15	Y160Mz-2	-		15	Y160M₂-2	30 24	10 7	1.5	Y90L-4				Y100L
50-200	A B C D	65 65 50 40 65	56 50 40 32 85	15 11	Y160M₂-2 Y160M₁-2	15	Y160M _F -2	15 45	Y160M₂-2 Y225M-2	30 24 34	10 7 21	1.5	Y90L-4 Y132S-4	2.2	Y100L-4	3	Y100L
50-200	A B C D A B	65 65 50 40 65 60	56 50 40 32 85 80	15 11 7.5 30	Y160M ₂ -2 Y160M ₁ -2 Y132S ₂ -2 Y232L ₁ -2	15 11 37	Y160M _F -2 Y160M _F -2 Y200L ₃ -2	15 45 45	Y160M ₂ -2 Y225M-2 Y225M-2	30 24 34 30	10 7 21 20	1.5 5.5 4	Y90L-4 Y132S-4 Y112M-4	2.2 1.5 5.5	Y100L ₁ -4 Y90L-4 Y132S-4	3 2.2 11	Y100L Y100L Y160M
	A B C D A B	65 65 50 40 65 60 55	56 50 40 32 85 80 65	15 11 7.5 30 22	Y160M ₂ -2 Y160M ₁ -2 Y132S ₂ -2 Y232L ₁ -2 Y180M-2	15 11 37 30	Y160M ₂ -2 Y160M ₃ -2 Y200L ₃ -2 Y200L ₄ -2	15 45 45 37	Y160M ₂ -2 Y225M-2 Y225M-2 Y200L ₂ -2	30 24 34 30 26	10 7 21 20 16	1.5 5.5 4 3	Y90L-4 Y132S-4 Y112M-4 Y100L-4	2.2 1.5 5.5 4	Y100L,-4 Y90L-4 Y132S-4 Y11M-4	3 2.2 11 5.5	Y100L Y100L Y160M Y132S
	A B C D A B C D	65 65 50 40 65 60 55 45	56 50 40 32 85 80 65 60	15 11 7.5 30	Y160M ₂ -2 Y160M ₁ -2 Y132S ₂ -2 Y232L ₁ -2	15 11 37	Y160M _F -2 Y160M _F -2 Y200L ₃ -2	15 45 45	Y160M ₂ -2 Y225M-2 Y225M-2	30 24 34 30 26 24	10 7 21 20 16 12	1.5 5.5 4	Y90L-4 Y132S-4 Y112M-4	2.2 1.5 5.5	Y100L ₁ -4 Y90L-4 Y132S-4	3 2.2 11	Y100L Y100L Y160M Y132S
	A B C D A B C D A	65 65 50 40 65 60 55 45	56 50 40 32 85 80 65 60 140	15 11 7.5 30 22 15	Y160M ₂ -2 Y160M ₁ -2 Y132S ₂ -2 Y232L ₁ -2 Y180M-2 Y160M ₂ -2	15 11 37 30	Y160M ₂ -2 Y160M ₃ -2 Y200L ₃ -2 Y200L ₄ -2	15 45 45 37	Y160M ₂ -2 Y225M-2 Y225M-2 Y200L ₂ -2	30 24 34 30 26 24 42	10 7 21 20 16 12 36	1.5 5.5 4 3	Y90L-4 Y132S-4 Y112M-4 Y100L-4	2.2 1.5 5.5 4	Y100L,-4 Y90L-4 Y132S-4 Y11M-4	3 2.2 11 5.5	Y112N Y100L Y100L Y160N Y132S Y112N Y160L
	A B C D A B C D	65 65 50 40 65 60 55 45	56 50 40 32 85 80 65 60	15 11 7.5 30 22	Y160M ₂ -2 Y160M ₁ -2 Y132S ₂ -2 Y232L ₁ -2 Y180M-2	15 11 37 30	Y160M ₂ -2 Y160M ₃ -2 Y200L ₃ -2 Y200L ₄ -2	15 45 45 37	Y160M ₂ -2 Y225M-2 Y225M-2 Y200L ₂ -2	30 24 34 30 26 24	10 7 21 20 16 12	1.5 5.5 4 3	Y90L-4 Y132S-4 Y112M-4 Y100L-4	2.2 1.5 5.5 4	Y100L,-4 Y90L-4 Y132S-4 Y11M-4	3 2.2 11 5.5 4	Y100L Y100L Y160M Y132S Y112M



					Speed	n=290	Or/min						Spec	ed n=	1450r/mir	n	
Type	Impelie				ortiony-1.0		ction y=1.35	Line of the last	ortion y=1.85	F1		Prope	ortion y~1.0	Propo	rtion y=1.35	Propo	rtion y La
-38-	SY.	Flow	Head H		Ppv	ver ar	nd Type(KW)		Flow	Head H		Pp	wera	and Type	(KW)	
		m³/h	m	kW		kW		kW		m³/h	m	kW		kW		kW	
	Α	100	32	15	VIENA O	40 E	V4001.2			50	8			3	V4004 A		V44084
65-160	В	90	32	15	Y160M -2	18.5	Y160L-2	22	Y180M-2	48	7	22	Vanni a	3	Y100L-4	4	Y112M-
03-100	C	90	24	11	Y160M -2	15	Y160M -2	18.5	Y160L-2	46	6	2.2	Y100L-4	2.0	Y100L-4	3	Y100L
	D	80	14	5.5	Y132S -2	7.5	Y132S-2	11	Y160M -2	38	4			2.2	1100L-4	3	1 TOUL
	A	100	54	22	Y180M -2	30	Y200L-2	37	Y200L-2	50	13	4	Y112M-4	4	Y112M-4	5.5	Y132S-
65-200	В	90	50	LL	1 (00W-2	30	12002-2	31	12000-2	46	12	-	Y100L-4		1112101-4	0.0	1 1323
03-200	C	90	40	18.5	Y160L-2	22	Y160L-2	30	Y200L-2	42	10	3	1100L-4	3	Y100L-4	4	Y112M
	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
	Α	115	85	45	Y225M-2	55	Y250M-2			54	21	11	Y160M-4	- 11	V4COM A		
SE 250	В	115	75	40	1223W-2	.00	1250W-Z			50	20	5.5	Y132S-4	11	Y160M-4	-11	Y160M
65-250	C	100	65	37	Y200L-2	45	Y225M-2	55	Y250M-2	46	16		3040014	5.5	Y132S-4		
	D	80	50	30	Y200L-2	30	Y200L-2	37	Y200L-2	40	10	4	Y112M-4	4	Y112M-4	5.5	Y1328
	Α	135	135	. 1000	10 Maria (10 Maria)			+200	Managara and an	64	32			192	200000000000000000000000000000000000000		
	В	130	125	90	Y280M-2	110	Y315S-2	160	T315M -2	61	30		*******	15	Y160L-4	18.5	Y180N
	C	115	115	75	Y280S-2	90	Y280M-2	132	Y315M -2	56	28	11	Y160M-4			2017	Acameri
65-315	D	110	110	55	Y250M-2	75	Y280S-2	110	Y315S-2	54	24			11	Y160M-4	15	Y160L
	E	90	85	45	Y225M-2	55	Y250M-2	75	Y280S-2	50	20	72.72			a boom of	200	
	F	75	70	30	Y200L-2	45	Y225M-2	55	Y250M-2	52	16	5.5	Y132S-4	5.5	Y132S-4	11	Y160N
	A	170	30	22	Y180M-2	30	Y200L-2	37	Y200L-2	75	8			4	Y112M-4	5.5	Y1325
	В	160	26	18.5	Y160L-2	22	Y180M-2			70	7	3	Y100L-4		A 50.000 00.		
80-160	C	150	22	15	Y160M -2	18.5	Y160L-2	30	Y200L-2	70	5	2000	service a rice.	3	Y100L-4	4	Y112N
	D	130	16	11	Y160M -2	15	Y160M-2	18.5	Y160L-2	65	4	2.2	Y100L-4	22	Y100L-4	2.2	Y100L
	A	150	50	37	Y200L-2	45	Y225M-2	55	Y250M-2	80	12	5.5	Y132S-4	11	Y160M-4		
	В	140	46	30	Y200L-2	37	Y200L-2		100000000000000000000000000000000000000	75	11	4	Y112M-4	5.5	Y132S-4	11	Y160N
80-200	C	130	38	22	Y180M-2	30	Y200L-2			65	9		1,735,100,7	4	Y112M-4	5.5	Y1325
	D	110	26	15	Y160M -2	18.5	Y160L-2	30	Y200L-2	60	6	3	Y100L-4	3	Y100L-4	4	Y112N
	A	190	80							90	20						
	В	180	75	55	Y250M-2					90	19	11	Y160M-4		Louis Addition for		o program
80-250	C	170	70	45	Y225M-2					85	17	- 1		11	Y160M-4	15	Y160L
	D	150	55	37	Y200L-2	55	Y250M-2	75	Y280S-2	75	14						
	E	130	47	30	Y200L-2	37	Y200L-2	55	Y250M-2	70	11	5.5	Y132S-4	5.5	Y132S-4	11	Y160N
	A	200	130	TOP ST	1.5000	160	Y315M -2	0.0	. J. Bracketti, Ac.	100	32			U.D.	1 1050 1.		
	В	180	125	110	Y315S-2	132	Y315M -2			95	30			18.5	Y180M-4	30	Y200L
80-315	C	160	100	75	Y280S-2	90	Y280M-2	132	Y315M -2		24	15	Y160L-4			18.5	Y180N
	D	150	75	55	Y280S-2	75	Y280S-2	90	Y280M-2	70	18			15	Y160L-4	15	Y160L
	A	100	10	- 50	12000-2	7.9	12000-2	30	1 ZOUNT Z	105	52	_				10	11001
	В									100	50	30	Y200L-4	37	Y2258-4		
90.400	C				- 0					-	44	30	1200L4			-	
80-400										90		-	-	30	Y200L-4	-	
	D		-							80	38	18.5	Y180M-4	40.0	Vances	50	Vesse
	E	200	ir	10	VOCOLLO	in	Macor I o			75	30		5	18.5	Y180M-4	30	Y200L
	A	220	45	45	Y250M-2	55	Y250M-2		MOTOLLO	115	11			11	Y160M-4	11	Y160N
100-200	В	200	40	30	Y225M-2	45	Y225M-2	55	Y250M-2	100	10	5.5	Y132S-4	4,47		NEW .	SELECTION.
	C	180	30	22	Y180M-2	30	Y200L-2	45	Y225M-2	90	8			5.5	Y132S-4	5.5	Y1325
	D	150	25					37	Y200L-2	80	6			3.0	11020-4	3.0	1020



				East.	Speed	-	CONTRACTOR OF THE PARTY OF THE					101			1450r/mi	100	
Type	Impelie	Flow	Mand	Propo	ortiony-10		rtion y=1.35			Elemen	II		rtiony-10	111111111111111111111111111111111111111	ortion y=1.35	Andrew Comments	
Type	SY.	Q	H		Ppv	wer a	nd Type	(KW)		Flow	Н		Pp	wer a	nd Type	(KW)	
		m ³ /h	m	kW		kW		kW		m³/h	m	kW		kW		kW	
	Α	280	75	90	Y280M-2	110	Y315S-2	160	Y315M ₂ -2	130	20	15	Y160L-4	30	Y200L-4	30	Y200L-
100-250	В	250	70	75	Y280S-2	110	13130-2	132	Y315M-2	130	18			15	Y160L-4		1.600.0
100-200	C	230	55	55	Y250M-2	75	Y280S-2	110	Y315S-2	120	14	11	Y160M-4			15	Y160L-
	D	200	40	37	Y200L ₂ -2	55	Y250M-2	75	Y280S-2	100	10			11		11	Y160M
	A	270	135	160	Y315M-2					132	32	30	Y200L-4		M2000 4		
****	В	250	130	132	Y315M-2					120	30	18.5	Y180M-4	30	Y200L-4	20	Mann
100-315	C	230	100	110	Y315S-2	132	Y315Mr-2			100	26			40	March 4	30	Y200L
	D	200	85	75	Y280S-2	110	Y315S-2	132	Y315M ₁ -2	90	21	15	Y160L-4	15	Y160L-4	18.5	Y180M
	A									150	50	45	Y225M-4				
	В									140	48			45	Y225M-4		
100-400	C									120	40	30	Y200L-4	920-51	17790A-9073UD	45	Y225M
	D									100	30	18.5	Y180M-4	30	Y200L-4	30	Y200L
	A									200	20	18.5	Y180M-4	22	Y180L-4	- 00	T.Z.OCL
	В									200	18	15	Y160L-4	18.5	Y180M-4		
125-250	C									190		10	11000-4	15	Y160M-4		
											14	11	Y160M-4			45	Y160L
	D				-					160	10		ine	11	Y160M-4	15	and the second
	A		_					-		200	30	30	Y200L-4	37	Y225S-4	45	Y225M
125-315	В									180	30			30	Y200L-4	37	Y2258
	С					_				170	24	18.5	Y180M-4	-10000		30	Y200L
	D									100	18	15	Y160L-4	18.5	Y180M-4	3070	, ATTENDED
	A									220	50	55	Y250M-4	75	Y280S-4		
	В									200	48	45	Y225M-4	75	Y280S-4		
125-400	C									180	46	37	Y225S-4	55	Y250M-4		
120 400	D									170	42	-		45	Y225M-4		
	E									150	36	30	Y200L-4	30	Y200L-4		
	F									150	30			30	1200L-4		
	A									320	17	22	Y180L-4				
	В									300	15			30	Y200L-4	37	Y225S
150-250	C	0								280	13	110	Y180M-4				
	D									260	12	15	Y160L-4	18.5	Y180M-4	30	Y200L
	E				1					240	11	11	Y160M-4	15	Y160L-4	22	Y180L
	A									380	30	45	Y225M-4	75	Y280S-4		
	В									340	26	37	Y225S-4	45	Y225M-4		
150-315	C									320	20	30	Y200L-4	37	Y225S-4	55	Y250M
	D									300	17	22	Y180L-4	30	Y220L-4	37	Y2258
	A									400	48	75	Y280S-4	110	Y315S-4	01	12200
	-									-	-			110	101004		
150-400	В									340	40	55	Y250M-4	75	Y280S-4	00	Vacca
	C							-		300	34	45	Y225M-4	400	Morre	90	Y280S
	D									260	28	37	Y225S-4	45	Y225M-4	75	Y280N
	A									420	80	132	Y315M _r -4				
	В									400	70	110	Y315S-4	160	Y315M ₂ -4		
150-500	C									360	65	2001	000000	130	Y315M-4		
	D									340	50	75	Y280S-4	110	Y315S-4	132	Y315M
	E									300	45	55	Y225M-4	75	Y280S-4	110	Y3158



					Speed	n=290	00r/min						Spee	d n=	=1450r/mi	n	
Tuno	Impelier	T1		Prop	ortion—1.0	Propo	rtion y=1.33	Propo	rtion y=1.85	Flow		Prop			etion >1.35		ortion y-1.8
Type	SY.	Flow	H		Ppv	ver ar	nd Type(KW)		Q	H		Pp	wer a	nd Type	(KW)	
		m³/h	m	kW		kW		kW		m³/h	m	kW		kW		kW	
	Α									600	12	30	Y200L-4	37	Y225S-4		
200-250	В									540	11	22	Y180L-4	30	Y200L-4		
	С									500	10	4.4	110024	~~	120064	37	Y225S-4
	Α									650	24	55	Y250M-4	75	Y280S-4		
200-315	В									600	20	00	1,20011171		12000-4		
200-010	C									550	16	37	Y225S-4	45	Y225M-4		
	D									500	13	30	Y200L-4	37	Y225S-4	55	Y250M-
	Α									650	52	132	Y315M-4				
200-400	В									550	45	90	Y280M-4	132	Y315M,-4		
200-400	С									500	40	75	Y280S-4	110	Y315S-4	160	Y315M ₂ -
	D									450	30	55	Y250M-4	75	Y280S-4	110	Y315S-
	A									700	75						
202 500	В									650	65	160	Y315M-4				
200-500	С									550	55	110	Y250M-4	160	Y315M-4		
	D									450	40	75	Y280S-4	110	Y315S-4	132	Y315M ₁ -
	Α									950	22			110	Y315S-4		
	В									900	20	75	Y280S-4	90	Y280M-4		
250-315	С									800	16	55	Y250M-4	75	Y280S-4		
	D																
	Α									1000	44	160	Y315M-4				
	В									900	38	132	Y315M-4				
250-400	С									850	30	110	Y315S-4	160	Y315M-4		
	D									800	24	90	Y280M-4	110	Y315S-4	160	Y315M ₂
	Α									1200	80						
10000000	В									1100	70						
250-500	С									1000	55						
	D									850	45	160	Y315M-4				
	A									1500	40						
	В									1400	30	160	Y315M-4				
300-400	С									1300	25	132	Y315M-4				
	D									1300	20	110	Y315S-4	160	Y315M-4		
	A									1700	70	NAME OF	mass-simila		and the second		
	В									1500	60						
300-500	С									1300	50						
	D									1100	40						
	-										1.00						





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S0Z

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

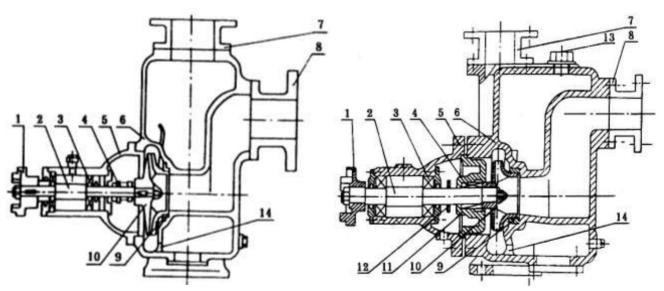
Application Self Priming

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
- 2. Pump Shaft
- 3. Bearing
- 4. Mechanical Seal
- 5. Bearing Body
- 6. Pump Cover
- 7. Discharge Seat

- 8. Suction Seat
- 9. Front Wear Ring
- 10. Impeller
- 11. Back Cover
- 12. Deflector
- 13. Liquid Adding Hole
- 14. Liquid Returning Hole

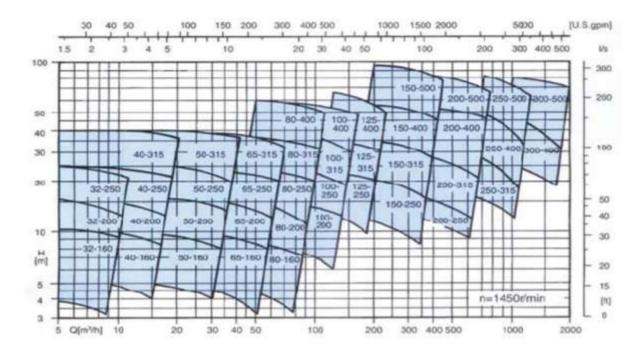


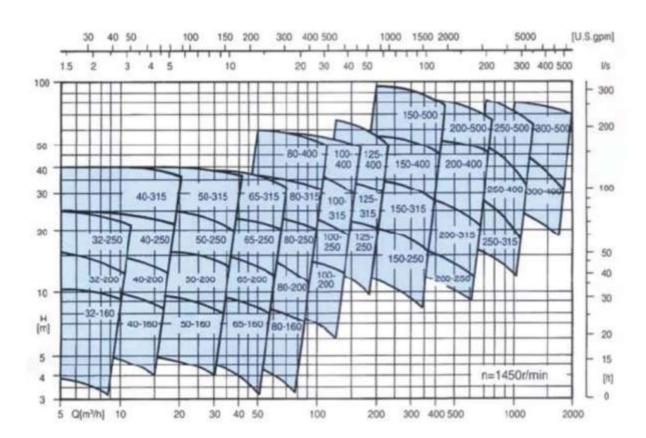
Performance Data

Model	Capacity (m³/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
SOZ 150-100-125	160	55	2900	4.0	2.0	45
SOZ 150-100-160	150	80	2900	5.0	2.0	55



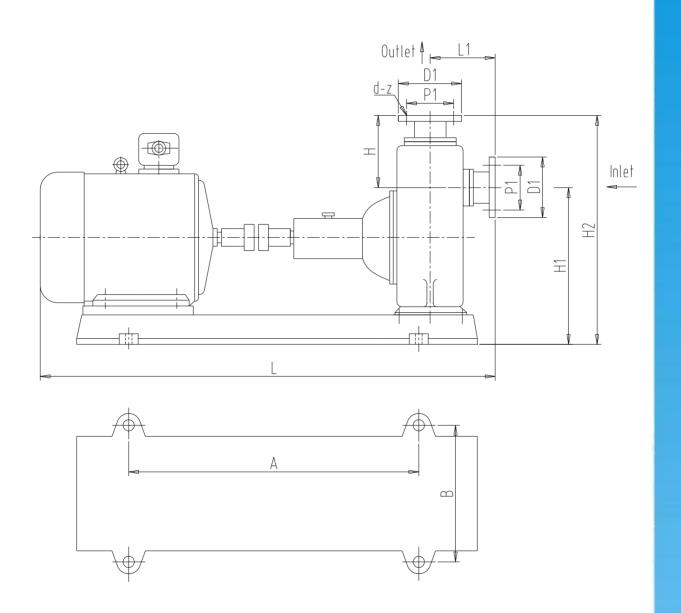
Performance Curve of SOZ Self-priming Pump







Installation Drawings & Dimensions

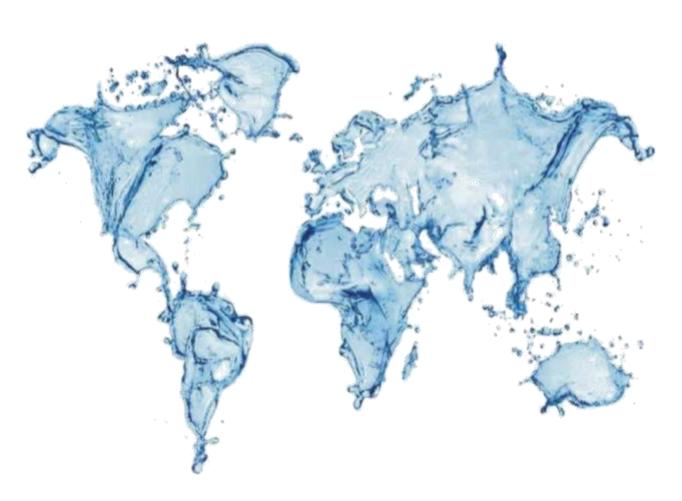




Installation Dimensions

	1	uc.Fla mens	-		is.Fla mens	-	Hole Distance	Hole Dia.		Centr	al Dist	tance	
Model	D ₁	P ₁	d-z	D ₁	P ₁	d-z	AxB	X No. of Holes	н	Н	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
SOZ 100-80-125	205	170	18-4	185	150	18-4	600X415	18X4	170	420	590	1150	180
SOZ 100-80-160	205	170	18-4	185	150	18-4	600X415	18X4	180	440	620	1130	180
SOZ 100-80-180	205	170	18-4	185	150	18-4	700X460	18X4	190	470	660	1350	195
SOZ 100-80-200	215	180	18-8	195	160	18-8	780X520	18X4	190	520	710	1445	195
SOZ 100-80-250	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





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http://www.sourcegroup.com.cn http://www.sourcepump.com









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 $^{\circ}$ 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: \sim +450°C

Pressure: \sim 135bar Flow: \sim 2600 m3/h

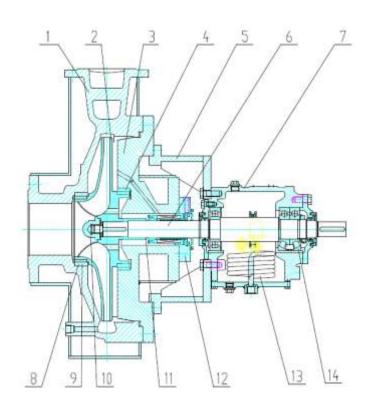
Head of delivery: \sim 300m





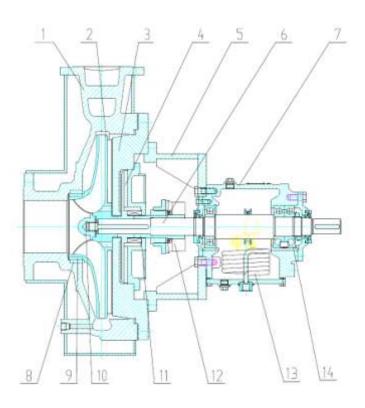


SOBG Section drawing (Proposal I)



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

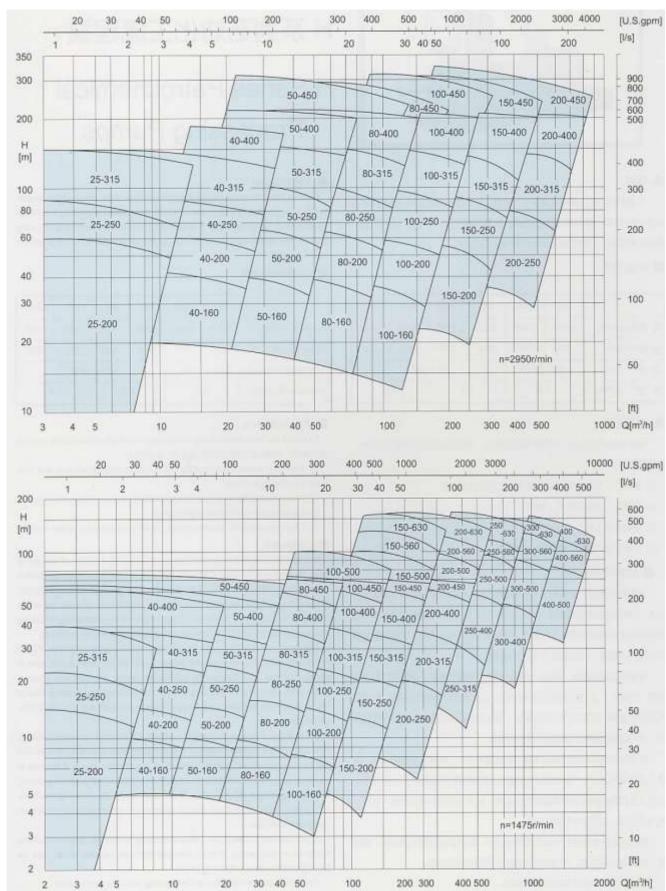
SOBG Section drawing (Proposal II)



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

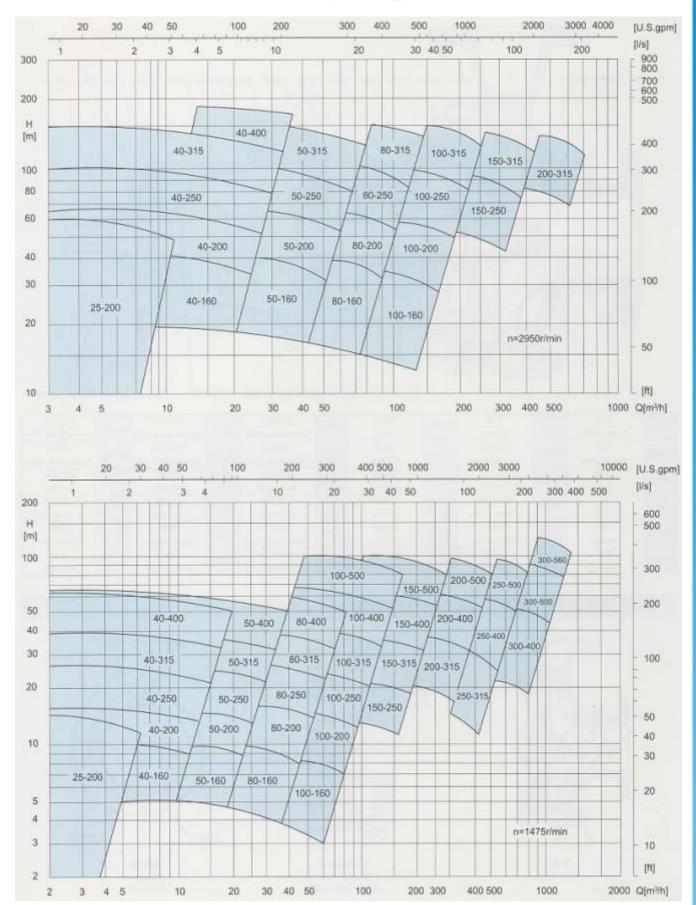


SOBG Range of performance





SOBG Range of performance





						Spe	ed 2950r/m	in			1			Spi	eed 1475r/m	in	
Tyme		Α.	н	P	raportion1.0	Pr	oportion 1.35	Pr	roportion 1.84	o	н	P	roportion1.0	Pr	roportion 1,35	Pr	roportion 1.8
Туре	SY.	m ³ /h			里机功率(kW)75	型号 Power a	nd Ty	ре	m³/h	0.5554				Powers	and Ty	pe
	A	11	52	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	5.6	12.5					1.5	Y90L-4
	В	10	45	4	Y112M-2	5.5	Y132S1-2	7.5	Y132S2-2	5	11						
25-200	C	8.5	38	3	Y100L-2	4	Y112M-2	5.5	Y132S1-2	4.5	9.5	1.1	Y90S-4	1.1	Y90S-4	1.1	Vnoc 4
20 200	D	7	30	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	4	7.				0.000	3:3	Y90S-4
	E	5.5	18	1.5	Y90S-2	1.5	Y90S-2	22	Y90L-2	3	4						
	A	16	82		1/400140.0	00	VARRAL D	40	Mana + a	8	22	2.2	Y100L-4	3	Y100L2-4	4	Y112M-4
	В	15	75	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	7.5	18	6.6	1.1000-4		1 TODEZ-4	2375.0	1332000
25-250	C	13	53	221	VACORAL T	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	11	Y160M1-2	15	Y160M2-2	5.5	10.5	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4
	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
	В	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
25-315	C	15	105	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	8	24	3	Y100L2-4	4	Y112M-4	5,5	Y132S-4
25'510	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	Y1325-4
	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
	A	27	32	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	13.5	8					1.5	Y90L-4
40-160	В	25	28							12.5	7	1.1	Y90S-4	1.1	Y90S-4	- Aller	100000000000000000000000000000000000000
40.100	C	22	21	4	Y112M-2	5.5	Y132S1-2	5.5	Y132S1-2	11	5					4.4	Y90S-4
	D	19	16	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	10000000	3.5		10001 4	0.0	2/4004 4 4	- 0	MARON O A
	Α	34	51	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	-	12.5	Labella Section	Y90L-4	2.2	Y100L1-4	3	Y100L2-4
40-200	В	31	46	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	16	11	1.1	Y90S-4	1.5	Y90L-4 Y90S-4	2.2	Y100L1-4 Y90L-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 Y90S-4	1.5	Y90S-4
	D	23	27	4	Y112M-2	5.5	Y132S1-2	7.5	Y132S2-2	12	6	1.1	Y90S-4 Y100L2-4	4	Y112M-4	5.5	Y132S-4
	A	35	75	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2 Y200L1-2	17.5	-	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-4
40-250	В	33	70	15	Y160M2-2	18.5	Y160L-2 Y160M2-2	18.5	Y160L-2	15.	13	1.5	Y90L-4	2.2	Y100L1-4	3	Y100L2-4
1	C	29	54	11	Y160M1-2	15	Y160M1-2	15	Y160M2-2	12.5	-	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4
	D	24	38	7.5	Y132S2-2 Y200L2-2	11 45	Y225M-2	75	Y280S-2	20	30	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4
	A	42	120	30	Y200L1-2	45	Y225M-2	55	Y250M-2	18	27	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4
40-315	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
	A	42	200	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	20	50	15	Y160L-4	22	Y180L-4	30	Y200L-4
	В	36	190	75	Y280S-2	110	Y315S-2	160	Y315M2-2	17	45	11	Y160M-4	15	Y160L-4	22	Y100L1-4
40-400	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
	A	50	33	11	Y160M1-2	15	Y160M2-2	22		25	8	1.5	Y90L-4	2.2	Y100L1-4	2.2	Y100L1-4
	В	44	29	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	22	7	1.0	190L-4	1.5	Y90L-4	2.2	1 100L1-4
50-160	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	1000	13034	interfer.	1000-1	1.1	Y90S-4
	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
E0 000	В	55	46	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	28	11	2.2	Y100L1-4		1.1000224	**	1 1 12 191-9
50-200	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	Y13252-2	11	Y160M1-2	15	Y160M2-2	21	7	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4
	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
50-250	В	65	72	30	12000176	41	1 MOVING 16	45	Y225M-2	33	18	377	THE STATE OF THE S	1000		11.000	
30-230	C	60	60	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	30	15	3	Y100L2-4	4	Y112M-4	5.5	Y1325-4
	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
	A	85	115	55	Y250M-2	75	Y280S-2	110	Y315S-2	43	28	11	Y160M-4	11	Y160M-4	15	Y160L-4
50-315	В	80	100	45	Y225M-2		110000	90	Y280M-2	40	24	7.5	Y132M-4	7.00	V164965001110	1993	1000170
00 000	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	Y200L-2	30	13	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
	Α	90	185	100000000000000000000000000000000000000	Y315S-2	160	Y315M2-2		V 44 V 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	46	50	18.5	Y180M-4	22	Y180L-4	30	Y200L-4
	В	127.00	165		Y280M-2	132	Y315M1-2	160	Y315M2-2	44	46	15	Y160L-4	18.5	Y180M-4	30	Y200L-4
50-400	C		150		Y280S-2	110	Y315S-2	132	Y315M1-2	40	36	11	Y160M-4	15	Y160L-4	18.5	Y180M-4
	D	-	130	THE PARTY IN	Y280S-2	90	Y280M-2	132	Y315M1-2	34	27	7.5	Y132M-4	11	Y160M-4	15	Y160L-4
	E	65	110		Y250M-2	75	Y280S-2	110	Y315S-2	120	1	-	2.000	1970	1000000	22	Morros
	-					4.00		400		67	63	30	Y200L-4	45	Y225M-4	55	Y250M-4
	A	NAME OF TAXABLE PARTY.	250	THE STREET		185		255			-	77.90		1000	THE RESERVE OF THE PARTY OF THE		THE RESERVE OF THE PARTY OF THE
50-450	100	125	220	THE STREET	Y315M-2	250 185		315 250		63	55	30 18.5	Y200L-4 Y180M-4	37	Y225S-4 Y200L-4	45 37	Y225M-4 Y225S-4



						Spe	eed 2950r/m	in						Spe	ed 1475r/n	nin	
Type		Q	н	P	roportion1.0	Pr	oportion1.35	Pr	roportion 1.84	Q	н	Р	roportion1.0	Pr	oportion1.35	Pr	oportion1.
100	SY.	m³/h					Power a	and Ty	pe	m ³ /h	m				Power	and Ty	pe
	Α	100	30	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	50	8	22	Y100L2-4	3	Y100L2-4	4	Y112M-
200000	В	90	27	10000	100.2000.000	15	Y160M2-2	18.5	Y160L-2	45	6.5	2.2	1100L2-4	2.2	Y100L1-4	3	Y100L2-
80-160	C	80	22	11	Y160M1-2	11	Y160M1-2	15	Y160M2-2	40	5.5	1.5	Y90L-4	Called C	V 40 00 V	2.2	Y100L1-
	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
	A	100	54	30	Y200L1-2	37	Y200L2-2	55	Y250M1-2	50	13	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-
2000	В	90	48	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	46	12.5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-
80-200	С	80	38	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	40	9.5	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-
	D	70	29	11	Y160M1-2	15	Y160M2-2	22	Y180M2-2	36	7	1.5	Y90L2-4	2.2	Y100L1-4	3	Y100L2-
	A	120	80	124		75	Y280S-2	90	Y280M-2	60	20	7.	Manna 4	11	Y160M-4	15	Y160L-4
	В	115	72	45	Y225M-2	55	Y250M-2	75	Y280S-2	57	18	7.5	Y132M-4	7.5	Y132M-4	11	Y160M-
80-250	C	105	55	30	Y200L1-2	45	Y225M-2	55	Y250M-2	50	14	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-
	D	85	42	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	42	10	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
	A	-	120	90	Y280M-2	110	Y315S-2	185		65	30	15	Y160L-4	18.5	Y180M-4	200	Vanni i
200 (0.00)	В	125		75	Y280S-4	90	Y280M-2			62	28	200		15	Y160L-4	22	Y180L-4
80-315	C	110	88	55	Y250M-2	75	Y280S-2			55	22	11	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	41	Y160M-
	A	Altimetris	168	160	Y315M2-2	160	Y315M2-2	315	13340	85	46	22	Y180L-4	1171177	***************************************	45	Y225M-
	В	10000	145	132	Y315M1-2	160	Y315M2-2	220		80	41	18.5	Y180M-4	30	Y200L-4	37	Y225S-4
80-400	C		125	110	Y315S-2	132	Y315M1-2	185		65	33	15	Y160L-4	18.5	Y180M-4	30	Y200L-4
00-400	D		105	90	Y280M-2	110	Y315S-2	160	Y315M2-2	52	24	11	Y160M-4	15	Y160L-4	18.5	Y180M-
	E	120	90	75	Y280S-2	110	Y315S-2	132	Y315M1-2	36	2.4	3.1	1100111-1	10	11001-1	10.0	1 100111
	A	-	229	350	12003-2	450	10100-2	630	1010011-6	103	60	37	Y225S-4	55	Y250M-4	75	Y280S-
	100000	and prior from the	205	220		280		400		98	57	37	Y225S-4	45	Y225M-4	75	Y280S-
00.400	B		GO.			250		355		83	47	30	Y200L-4	30	Y200L-4	45	Y225M-
80-450	C	178	FIRSTING	185	VOIEND O	-		250		70	32	15	Y160L-4	22	Y180L-4	30	Y200L-
	D	CONTRACTOR OF THE PARTY OF THE	158	160	Y315M2-2	200	Y315M-4			10	0.6	10	11001-4	22	1.100L-9	20	12001-
	Ε	minthers.	128	110	Y315S-4	132	and the second second second second second	180	Vacor a a	0.0	7	3	Y100L2-4	4	Y112M-4	5.5	Y132S-
	A	160	28	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	80	7 5.5	2.2	Y100L1-2	3	Y100L2-4	4	Y112M-
100-160	В	150	24	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	72	13333		Y90L-4	2.2	Y100L1-4	3	Y100L2-
	C	130	17	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	60	4	1.5		The second second	CONTRACTOR OF STREET	2.2	-
	D	100	13	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	50	3.5	1.1	Y90S-4	1.5	Y90L-4	links	Y100L1-
	A	170	49	45	Y225M-2	50	Y250M-2	75	Y280S-2	85	12	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-
100-200	В	160	43	37	Y200L2-2	45	Y225M-2	40	Vanctura	75	10.5	4	VIII I	5.5	Y132S-4	7.5	Y132M-
	C	150	32	30	Y200L1-2	37	Y200L2-2	45	Y225M-2	65	8	3	Y112M-4 Y100L2-4	3	Y100L2-4	4	Y112M-
	D	130	24	18.5	Y160L-2	30	Y200L1-2	37	Y200L2-2		_	3	1100L2-4	_	manufacture particular		Y180M~
	A	230	77	75	Y280S-2	90	Y280M-2	132	Y315M1-2	115	19	11	Y160M-4	15	Y160L-4	18.5	
100-250	В	220	70		Name and the		VIDEOU I	0.0	3/00011.0	110		7.0	VADDLA A	11	Y160M-4	15	Y160L-4
SWEE	C	190	-	45	Y225M-2	75	Y280S-4	90	Y280M-2	100	13	7.5	Y132M-4	7.0		11	Y160M-
	D	170	10000	37	Y200L2-2	45	Y225M-2	75	Y280S-2	90	10	5.5	Y132S-4	7.5	Y132M-4	7.5	Y132M-
	A	100000	125	132	Y315M1-2	185	MARKED	250		125	2007000	18.5	Y180M-4	30	Y200L-4	37	Y225S-
100-315	В	@nesebiti	117	132	Y315M1-2	160	Y315M2-2	220	Votes in a	120	\$ 0-Corp. 1	State:	V400L 4	22 40 E	Y180L-4	30	Y200L-4
	C	200	1112	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	105	-	15	Y160L-4	18.5	Y180M-4	22	Y180L~
	D	165	-	75	Y280S-2	75	Y280S-2	110	Y315S-2		16	11	Y160M-4	11	Y160M-4	15	Y160L-
	Α	ditions	190	250		315		450		10000	49	37	Y225S-4	45	Y225M-4	75	Y280S-
	В	260		200	440.000.00	280		355		135	27777	37	Y225S-4	0.0	Mana 4	55	Y250M-
100-400		-	150	160	Y315M2-2	220		315		120	Total Control	22	Y180L-4	30	Y200L-4	45	Y225M-
	D	Accessored.	130	132	Y315M1-2	185	1 A 4 B 4 B 4 B 4 B 4 B 4 B 4 B 4 B 4 B 4	250		100	29	15	Y160L-4	22	Y180L-4	30	Y200L-
	E	1000000	110	District Co.	Y315S-2	160	Y315M2-2	200				- Property	1100001		1400000	4.55	1/0-25
	A	1	258	380		560		710		10000	64	55	Y250M-4	75	Y280S-4	110	Y315S-
100-450	В	10000	242	350		500		630		155	-	45	Y225M-4	75	Y280S-4	90	Y280M-
	C	260	200	250		315		450		-	50	37	Y225S-4	45	Y225M-4	75	Y280S-
	D	200	145	132	Y315M-2	185		250		-	37	22	Y180L-4	30	Y200L-4	37	Y225S-
	A					4				175		75	Y280S-4	90	Y280M-4	132	Y315M1
100-500	В									165	72	75	Y280S-4	90	Y280M-4	110	Y315S-
100-000	C									40000	54	45	Y225M-4	75	Y280S-4	90	Y280M-
	D									125	42	30	Y200L-4	45	Y225M-4	55	Y250M-



						Spe	ed 2950r/m	in						Sp	eed 1475r/m	iin	
Туре		Q	н	P	roportion1.0	Pr	oportion 1.35	P	oportion 1.84	Q	H	F	roportion 1.0	P	roportion 1.35	Pi	roportion 1.8
1100	SY.	m ³ /h	1000113				Power	and Ty	ре	m³/h					Power	and Ty	/pe
	Α	300	45	55	Y250M-2	75	Y280S-2	110	Y315S-2		11.5	7.5	Y132M-4	-11	Y160M-4	15	Y160L-4
150-200	В	280	40	45	Y225M-2		Total December 2	90	Y280M-2	140	CONTRACTOR						
	C	260	30	37	Y200L2-2	45	Y225M-2	75	Y280S-2	130		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
450.050	A	380	74	110	Y315S-2	160	Y315M2-2	200	1/04/24/20 0	190	18	15	Y160L-4	22	Y180L-4	30	Y200L-4
150-250	В	350	60	90	Y280M-2	110	Y315S-2	160	Y315M2-2	180	15	44	Weenst a	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
	A	440	115	220		280		400 355		220	31	30	Y200L-4	45 37	Y225M-4 Y225S-4	55	Y250M-4
150-315	B	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
	A	The state of	190	380	1200W-2	560	13 1300 152	710	1010M2-E	-	-	10	11000-4	10.0	1 100m-4	110	Y314S-4
	В	A CONTRACTOR OF	170	355		450		630		150	46	55	Y250M-4	75	Y280S-4	90	Y280M-4
150-400	C	and the later of the later	148	280		400		500		220	38	37	Y225S-4	55	Y250M-4	75	Y280S-4
150-400	D	420	100	220		315		400		190	-	30	Y200L-4	37	Y225S-4	55	Y250M-4
	E	400	-	185		250		355		100	20	ou.	12005-4	-97.6	TEEGO	00.	LESUMES
	A	Actor Spiriters	250	560		800		1120		270	64	75	Y250S-4	110	Y315S-4	160	Y315L1-4
	В	490	5.00	500		710		900		260	62	75	Y250S-4	110	Y315S-4	132	Y315M-4
150-450	C	100000	210	minute and the		560		800		230	52	55	Y250M-4	75	Y280S-4	110	Y315S-4
100 100	D	Acres No facts	175			400		560		170	36	22	Y180L-4	37	Y225S-4	55	Y250M-4
	E	100	150			315		400		-110	-		11002.1		12200 1		T E COMP. 1
	A	0.00	100	LLU		0.10		100		300	75	110	Y315S-4	132	Y315M1-4	185	
	В									280	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-4
150-500	C									240	56	75	Y280S-4	90	Y280M-4	110	Y315S-4
	D									200	44	45	Y225M-4	75	Y280S-4	75	Y208S-4
	A									300	97	160	Y315M2-4	185	20172	250	
	В									290	91	132	Y315M1-4	160	Y315M2-4	220	
150-560	C									260	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-4
	D									220	54	75	Y280S-4	90	Y315S-4	110	Y315S-4
	A									360	-	220		280		400	
450.000	В									340	103	185		250		355	
150-630	C									280	78	132	Y315M1-4	160	Y315M2-4	200	
	D									220	58	75	Y280S-4	110	Y315S-4	160	Y315M2-4
	A	600	70	160	Y315M2-2	220		315		300	17.5	22	Y180L-4	30	Y200L-4	45	Y225M-4
200-250	В	570	62	160	Y315M2-2	185		250		285	16	18.5	Y180M-4	30	Y200L-4	37	Y225S-4
200-200	C	520	46	110	Y315S-2	132	Y315M1-2	185		250	12	15	Y160L-4	18.5	Y180M-4	30	Y200L-4
	D	460	E-04090797	75	Y280S-2	90	Y280M-2	110	Y315S-2	230	8	11	Y160M-4	15	Y160L-4	15	Y160L-4
	A	650	122	315		400	The state of the s	560		330	30	45	Y225M-4	55	Y250M-4	75	Y280S-4
200-315	В	630	114	280		355		500		320	28	37	Y225S-4	55	Y250M-4	75	Y280S-4
200-010	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
	Α	820	190	630		900		1120		420	50	90	Y280M-4	110	Y315S-4	160	Y315M2-4
	В	760	162	500		710		900		400	47	75	Y280S-4	110	Y315S-4	132	Y315M1-4
200-400	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	0.000	108	ACCOUNTS NO.		355		500		-		-					
	A	100000	encore of	1000		1400		1600		460	10000	132	Y315M-4	185		250	
200-450	В	0.000	MODEL	900		1120		1800		442	With Secretary 18	110	Y315S-4	160	Y315L1-4	220	No. of the last of
444	С	SELECTION OF SECTION O	205	1000		900		1600		382	BM TOTAL	75	Y280S-4	90	Y280M-4	160	Y315L1-4
	D	570	145	355		450		630		310	-	45	Y225M-4	75	Y280S-4	90	Y280M-4
	A									500	-	160	Y315M2-4	220		315	
-1	В						15 55			480	NOTION AND L		200000000000000000000000000000000000000	200	- CAPE CONTRACT	315	
200-500	11070									440	10000	132	Y315M1-4	160	Y315M2-4	220	
	D									420	1000000	110	Y315S-4	132	Y315M1-4	185	S. Record
	E									360	43	75	Y280S-4	110	Y315S-4	132	Y315M1-



			100		Speed 2950r/m	nin					Sp	eed 1475r/m	in	
Type	200	Q	н	Proportion1.0	Proportion 1.35	比重Proportion1.84	Q	н	F	roportion1.0	P	roportion 1.35	P	roportion 1.8
1100	SY.	m ³ /ħ			Power	and Type	m³/h					Power a	and Ty	pe
	A						550	96	220		280		400	
	В						500	85	185		250		315	
200-560	C						440	68	160	Y315M2-4	185		200	
	D						360	52	110	Y315S-4	132	Y315M1-4	160	Y315M2-4
	A						580	132	315		450		630	
000.000	В						560	123	315		400		560	
200-630	C						500	96	200		280		400	
	D						420	70	132	Y315M1-4	160	Y315M2-4	220	
	A						540	26	55	Y250M-4	75	Y280S-4	110	Y315S-4
250-315	В						520	25	55	Y250M-4	75	Y280S-4	90	Y280M-4
200-010	C						460	19	37	Y250S-4	55	Y250M-4	75	Y280S-4
	D						420	13	30	Y200L-4	37	Y225S-4	45	Y225M-4
	Α						700	48	132	Y315M1-4	185		220	
250-400	В						660	44	132	Y315M1-4	160	Y315M2-4	200	V 100 V 000 V 000
200 100	C						600	35	90	Y280M-4	132	Y315M1-4	160	Y315M2-4
	D						500	25	75	Y280S-4	90	Y280M-4	110	Y315S-4
	A						800	80	250		355		630	
250-500	В						750	75	220	272 72 72 72	315		560	
	C						680	56	160	Y315M2-4	200	31015150	280	
	D						580	42	110	Y315S-4	160	Y315M2-4	185	
	A						-	-	355		500		630	
250-560	В						820	-	315		450		560	
	C	-					750	distance in	220	Y315M2-4	315		500	
	D						620	124	160 450	1310WZ-4	220 560		315 800	
	A		н					117	400		500		710	
250-630	B	-					700		280		255		500	
	D						600	- Bonnorter	185		220		280	
	A						1050	dimensión	185		280		355	
	В						1000	deliner-	160	Y315M2-4	220		315	
300-400	C						900	Annons	132	Y315M1-4	160	Y315M2-4	200	
	D						720		90	Y280M-4	132	Y315M1-4	160	Y315M2-4
	A						1250	4	400	1200111111	530		710	
ana usa	В						1200	-	355		450		630	
300-500	C						1100	14/10/01/02	250		315		450	
	D						1000	\$1100001	160	Y315M2-4	220		280	
	A						100/100	books	560	- None and the	710		1000	
	B						1350		500		630		900	
300-560	C						1200	75	355		400		560	
	D						1100	50	200		250		400	
	A						1500	134						
200 620	B						1450	124						
300-630	C				-		1300							
	D						1050	72						
	A						1850	73	560		710		1000	
400-500	В						1800		450		630		800	
400-000	C						1500	410-000	280		400		530	
	D						1200		185		250		315	
	A						2000		710		1000		1250	
400-560	В						1900		630		900		1120	
	C						1750		450		630		900	
	D						1450	10000	180		400		530	
	Α						_	-	1120		1400		1800	
400-630	В						# to 100 (00)	THE REAL PROPERTY.	1000		1250		1800	
400-030	C						2000		710		800		1000	
	D						1600	67	400		560		710	





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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, maintance convenient, performance stable and the application range is wide, etc. It's 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 filtrantion, revers 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 supperssion, low flow dewateing, hydrauric mining, and in-situinjection.

Aerospace

Washing, refuelling, feeding in raw material, fuel flooding

• Vihecle Manufcaturing

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

General Industry

Vihicle 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, inuection

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 gsa 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 : $Q: 0.4 \sim 6.3 \text{m}^3 / \text{h}$ Heads: $H: 15 \sim 100 \text{m}$ Pressure : $P: \sim 2.5 \text{MPa}$ Temperature: $T: -40 \sim +200 ^{\circ}\text{C}$

Description of the type

For example:

SOT 40-160

Nominal dianeterof

Impeller mm

Capacity code, The series
has 5 capacity codes:
10-0.4m³/h
20-0.8m³/h
30-1.6m³/h
40-3.2m³/h
50-6.3m³/h

Series Characteristics of structuer

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

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

Liquid transported

- Sulphric 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 conventration.
- All kinds of salt solution.
- Various liquid petrochemical products, organic compound as well as raw materials with corrosion behavious 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 provided the detail service conditions for the pump to us when you order.

A propriate 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

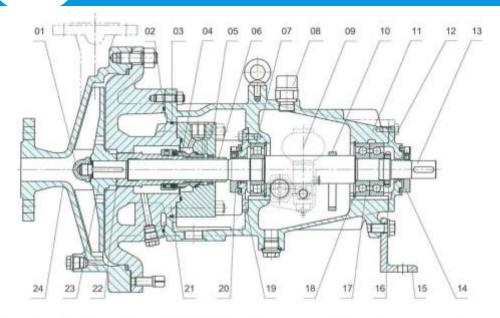
When liquid is slightly polluted or singal seal can't meet requirments. You shoul choose double seal. If temperature is above

+200 °C, we should draw cooling water to the seal cooling box.



SOT (

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	Q 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

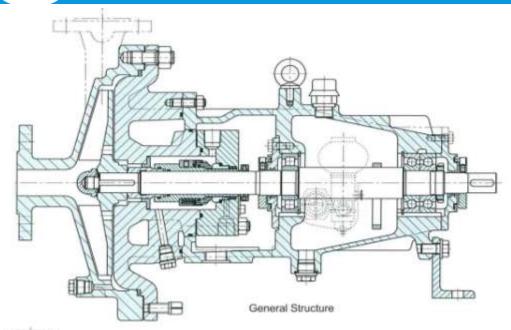
Range of Performance

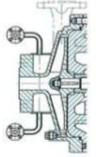




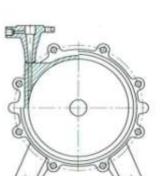
SOT

Structure

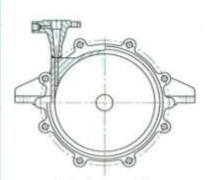




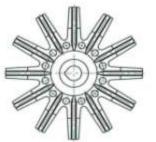
Heat keeping jacket in casing



Foot support

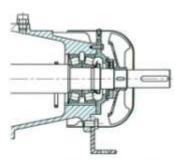


Centerline supporting

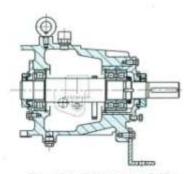


Partial flow impeller

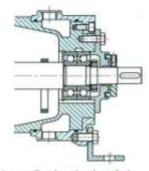




Wind-cooling bearing bracket



The axial adjustment available for bearing bracket



Water-cooling bearing bracket



SOT (

Size	Q(m³/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	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 (

Size	Q(m³/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	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





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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, radi ally 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 sea ling ring, shaftseal with sleeve, easy to maintain, save spare parts cost.

The pump casing with large than 80mm-diameter (including 80mm) isdesigned 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 canbe 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 interc hangea bility, 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.

Performar	ice Dat	a
Flow Range:	Q	up to 600m3/h
Head Range:	Н	up to 120m
Operating Pressure:	P	up to 50 Bar
Liquid Temperature:	T	up to 250 ℃

Applications

- @ Petrochemical@ General industrial process
- General industrial proce
 Pipeline pressurization
- @ Refinery@ Water supply and treatmen t

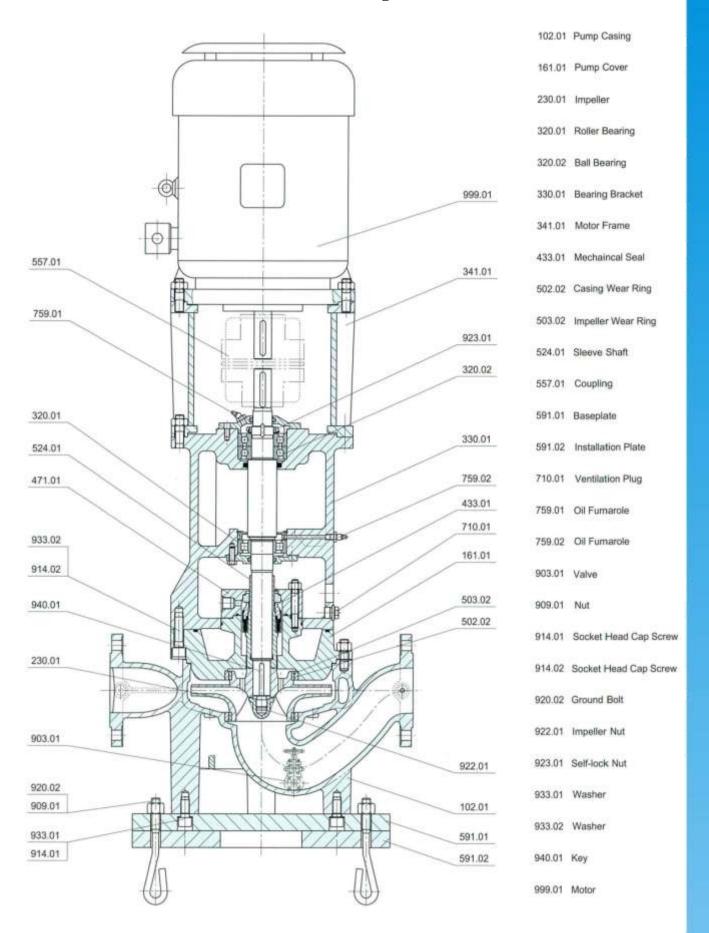
@ Marine pump

E.G. SOG 150-250

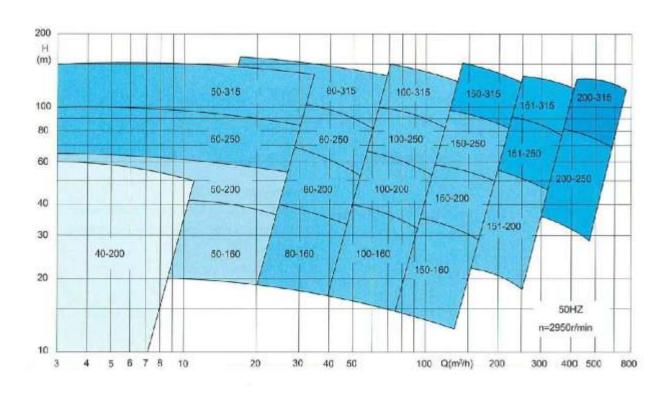
SOG — Vertical Pipeline Pumps 150 — Flange diameter in inlet and outlet 250 — Impeller nominal diameter

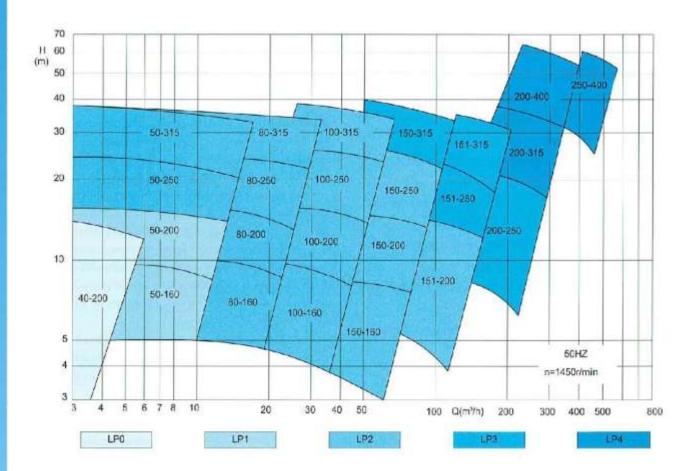


Sectional Drawing - SOG









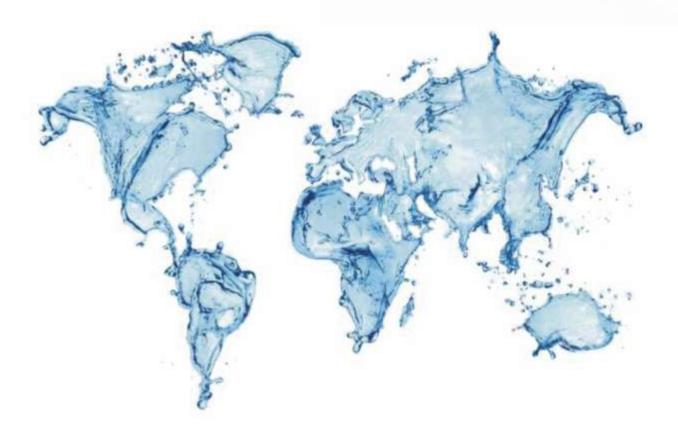


	Ot					额定转速(spe	ed) n=	2950r/min							擬定转達(sp	eed) n=	1450r/min		
型号	35	-0.00	elinary.	抽承架	taip	roportion y 1.0	比图P	roportion y 1.3	5 比圖P	roportion y 1.84	701.90	627,802	轴承架	比爾P	roportion y 1.	0 EURP	oportion y 1.3	比重Pr	aportion y 1.
Type	代号	流量 Q	H	Bearing		电机功	E(kW)	A型号 Power	and Ty	/pe	流量	Н	Bearing Bracket	1	电机功	率(kW)5	数号 Power	and Ty	pe
		m ³ /h	m	Bracket LP	kW	W. O. C.	kW	Market California	kW		m³/h	т	LP	kW		kW		kW	
	A	11	49		5.5	13251-2	7.5	132S2-2	11	160M1-2	5.8	12	240.00	-		10,000		1.5	90L-4
	В	10	42		4	112M-2	5.5	13251-2	7.5	13252-2	5.4	11	9330	280		322	200 4		
0-200	С	9	36	0-200	3	100L-2	4	112M-2	5.5	13281-2	4.6	8.5	0-200	1,1	90S-4	1.1	90S-4	1.1	905-4
	D	7.5	28		2.2	90L-2	3	100L-2	4	112M-2	4	6.5							
	A	28	33								14	8						1.5	90L-4
	В	25	29		5.5	13251-2	7.5	13252-2	11	160M1-2	13	7	1	2020		24	1.0000000000000000000000000000000000000		
0-160	C	22	22	1-160	4	112M-2	5.5	13251-2	5.5	13251-2	11	5.5	1-160	1.1	90S-4	1.1	905-4	1.1	905-4
	D	20	16		2.2	90L-2	3	100L-2	4	112M-2	9.5	4.5							
	A	29	53		11	160M1-2	15	160M2-2	18.5	160L-2	14.5	13		1.5	90L-4	2.2	100L1-4	3	100L2-4
	В	26	47	iosagani Tosagani	7.5	13252-2	11	160M1-2	15	160M2-2	13	11.5	012031		55521612E	1.5	90L-4	2.2	100L1-4
0-200	C	22	39	1-200	5.5	13251-2	7.5	13252-2	11	160M1-2	11.5	9	1-200	1.1	90S-4	20	7-22-07	1.5	90L-4
	D	18	20		4	112M-2	5.5	13251-2	7.5	13252-2	9.5	7				1.1	90S-4	1.1	905-4
	A	32	78		18.5	160L-2	22	180M-2			16	19.5		3	100L2-4	4	112M-4	5.5	1325-4
	В	30	72		15	160M2-2	18.5	160L-2	30	200L1-2	15	18		2.2	100L1-4	3	100L2-4	4	112M-4
0-250	C	24	60	2-250	11	160M1-2	15	160M2-2	18.5	160L-2	12.5	14	2-250	2.2	100L1-4	2.2	100L1-4	3	100L2-4
	D	21	47		7.5	13252-2	11	160M1-2	15	160M2-2	10.5	11		2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
	A	42	115		37	200L2-2			75	280S-2	21	29					Same and the		
	В	40	107		30	200L1-2	45	225M-2	55	250M-2	20	26.5		5.5	132S-4	7.5	132M-4	11	160M-4
0-315	C	34	81	2-315	22	180M-2	30	200L1-2	45	225M-2	17.5	20	2-315	4	112M-4	5.5	132S-4	7.5	132M-4
	D	29	61		15	160M2-2	22	180M-2	30	200L1-2	15	15		3	100L2-4	3	100L2-4	5.5	1325-4
	A	50	34		11	160M1-2	15	160M2-2		- 1000000000000000000000000000000000000	25	8.4		4000		2.2	100L1-4	22	222240
	В	45	29	Land.	7.5	13252-2	11	160M1-2	15	160M2-2	22.5	7	- United	2.2	100L1-4	2.2	100L1-4	22	100L1-4
0-160	C	38	22	2-160	5.5	13281-2	7.5	13252-2	11	160M1-2	19	5.5	2-160		2,687,580	522	12(2)(94)	2.2	100L1-4
	D	31	17		3	100L-2	4	112M-2	5.5	13251-2	16.5	4	1	2.2	100L1-4	2.2	100L1-4	2.2	1001.1-4
	A	62	52		18.5	160L-2	22	180M-2	30	200L1-2	31	13		3	100L2-4				
	В	56	46		15	160M2-2	18.5	160L-2	22	180M-2	28.5	11.5		2.2	100L1-4	3	100L2-4	4	112M-4
0-200	С	49	37	2-200	11	160M1-2	15	160M2-2	18.5	160L-2	25	9	2-200	2.2	100L1-4	2.2	100L1-4	3	100L2-4
	D	43	28		7.5	13252-2	11	160M1-2	15	160M2-2	22	7		2.2	100L1-4	22	100L1-4	2.2	100L1-4
	A	70	82					20000000	55	250M-2	35	20					4000 A	40	10041.4
orași.	В	66	75	2000	30	200L1-2	37	200L2-2	45	225M-2	33	18.5		4	112M-4	5.5	1328-4	7.5	132M-4
0-250	C	60	80	2-250	22	180M-2	30	200L1-2	37	200L2-2	30	15	2-250	3	100L2-4	-4	112M-4	5.5	132S-4
	D	50	45		15	160M2-2	18.5	160L-2	22	180M-2	26	11		2.2	100L1-4	3	100L2-4	3	100L2-4
	A	87	115		55	250M-2	100	COLUMN TO A STATE OF THE STATE			44	28		11	160M-4	7420	(VESCALIA)	0.23	1022/14
	В	80	100		45	225M-2	75	280S-2	90	280M-2	40	24	1000	7.5	132M-4	11	160M-4	15	160L-4
0-315	C	70	78	2-315	30	200L1-2	45	225M-2	55	250M-2	35	19	2-315	5.5	1325-4	7.5	132M-4	11	160M-4
	D	57	57		22	180M-2	30	200L1-2	37	200L2-2	30	14	í E	3	100L2-4	4	112M-4	5.5	1325-4
	A	94	32		15	160M2-2	18.5	160L-2	30	200L1-2	47	8				3	100L2-4	4	112M-4
eter man	В	85	28	27.000.00		20.000000000000000000000000000000000000	15	160M2-2	18.5	160L-2	42	7		2.2	100L1-4	2.5	500/ 1:4	3	100L2-4
00-160	С	76	23	2-160	11	160M1-2	11	160M1-2	15	160M2-2	38	5.5	2-160	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
	D	66	17		5.5	13251-2	7.5	13252-2	11	160M1-2	34	4	10	2.2	100L1-4	2.2	100L1-4	2.2	100L1-4
	A	103	54		30	200L1-2	37	200L2-2		understate.	51	13.5		4	112M-4	5.5	1325-4	7.5	132M-4
9568	В	95	48	pasa	22	180M-2	30	200L1-2	37	200L2-2	47	12		3	100L2-4	4	112M-4	5.5	1325-4
00-200	С	84	38	2-200	15	160M2-2	22	180M-2	30	200L1-2	41	9.5	2-200	2.2	100L1-4	3	100L2-4	4	112M-4
	D	70	30		11	160M1-2	15	160M2-2	22	180M-2	36	7.5		2.2	100L1-4	2.2	100L1-4	3	100L2-4
	A	127			100	1000001-553	75	280S-2	90	280M-2	64	20		145	10000	11	160M-4	15	160L-4
	В		76		45	225M-2	55	250M-2	75	280S-2	60	19		7.5	132M-4	7.5	132M-4	11	160M-4
00-250	C	105	1000	2-250	30	200L1-2	45	225M-2	55	250M-2	52	14.5	2-250	4	112M-4	5.5	1325-4	7.5	132M-4
	D	87	45		22	180M-2	30	200L1-2	37	2001.2-2	46	11		3	100L2-4	4	112M-4	5.5	1325-4



	D†					额定转速(spe	ed) n=	2950r/min							航定转速(sp	eed) n=	1450r/min		
型号	185			轴承架	tt mp	roportion y 1.0	比重P	roportion y 1.3	5 ttmp	roportion y 1.84			轴承架	LT.MP	roportion y 1.	0 Happ	roportion y 1.3	5 Har	roportion y
Type	代号	流量 Q	H	Bearing Bracket		电机功	₽(kW)?	及型号 Power	and Ty	ре	液量 Q	扬程 H	Bearing Bracket		电机功	率(kW)7	型号 Power	and Ty	ре
	SY.	m³/h	m	LP	kW		kW		kW		m3/h	m	LP	kW		kW		kW	
	A	141	127		90	280M-2	-		-		70	33		15	160L-4	18.5	180M-4	10000	773.70
	В	135	121		75	280S-2					66	30	curowes.		0020010	15	160L-4	- 22	180L-
00-315	C	115	97	2-315	55	250M-2	75	280S-2			56	24	2-315	11	160M-4	11	160M-4	15	160L-
	D	90	74		37	200L2-2	45	225M-2	75	2805-2	45	18		5.5	1325-4	7.5	132M-4	11	160M-
	A	162	29		22	180M-2	30	200L1-2	37	200L2-2	81	7.2		3	100L2-4	4	112M-4	5.5	1325-
E01100	В	150	24	12000	15	160M2-2	22	180M-2	30	200L1-2	73	6	A WHAT	2.2	100L1-4	3	100L2-4	4	112M-
50-160	С	130	17	2-160	11	160M1-2	15	160M2-2	18.5	160L-2	63	4.3	2-160	2.2	100L1-4	2.2	100L1-4	3	100L2-
	D	110	12		7.5	13252-2	11	160M1-2	15	160M2-2	55	3		2.2	100L1-4	2.2	100L1-4	2.2	100L1-
	A	193	50		45	225M-2	55	250M-2	1000	1000000	95	12.5		5255	Sanario)	leces	ion General Sec		Posteriero
ceessel.	В	180	44		37	200L2-2	45	225M-2	75	280S-2	90	10.5		5.5	132S-4	7.5	132M-4	11	160M-
50-200	C	155	35	2-200	30	200L1-2	37	200L2-2	45	225M-2	80	8.5	2-200	4	112M-4	5.5	1325-4	7.5	132M-
	D	135	26		18.5	160L-2	30	200L1-2	37	200L2-2	70	6		3	100L2-4	3	100L2-4	4	112M-
	A	230	79		10.0	1000		8.0004-114-		NOONE S.	115	20		15220	20000000	15	160L-4	18.5	180M-
	В	218	73	-	75	2805-2	90	280M-2			110	18		11	160M-4	.5	TONIC TO	15	160L-
50-250	C	190	58	2-250	45	225M-2	75	280S-2	90	280M-2	100	14	2-250	7.5	132M-4	11	160M-4	11	160M-
	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-
	A	250	126		132	315M1-2	40.	EEUW-E:	10	2000-2	125	31		5,0	1020-4	30	200L-4	37	225S-
					102	280M-2	160	315M2-2						18.5	180M-4			30	200L-
50-315	В	240	120	3-315	00	to be not an extra an ex-			400	245342.2	119	29	3-315	40	4000 4	22	180L-4		
1	C	203	97		90	280S-2	132	315M1-2	160	315M2-2	104	24		15	160L-4	18.5	180M-4	22	180L-
	D	170	71		75	250M-2	75	2808-2	110	315S-2	86	17.5		11	160M-4	11	160M-4	15	160L-
	A	320	44		55	225M-2	75	280S-2	200		160	11		7.5	132M-4	11	160M-4	15	160L-
51-200	В	300	39	2-200	45	2000000	200	200200000	90	280M-2	152	9.5	2-200	AUG.			12500000		7 9 3 5 9 9 1
	C	265	30		37	200L2-2	45	225M-2	75	280S-2	140	7	2000	5.5	1325-4	7.5	132M-4	11	160M-
	D	220	23		22	180M-2	30	200L1-2	45	225M-2	123	5		3	100L2-4	4	112M-4	5.5	1325-
	A	390	74		110	3158-2	160	315M2-2	20.00		195	18.5		15	160L-4	22	180L-4	30	200L-4
51-250	В	355	62	3-250	90	280M-2	110	3155-2	160	315M2-2	180	16	3-250	1000	2002200	18.5	180M-4	22	180L-4
	C	325	46	METOR:	75	2805-2	90	280M-2	110	3158-2	160	11.5	4811/16	11	160M-4	11	160M-4	15	160L-4
	D																		
	A	442	125								220	32.5		30	200L-4	45	225M-4	55	250M-
51-315	В	430	120	3-315							210	30	3-315	125	110000000000000000000000000000000000000	37	2255-4	100	
	C	372	94	3010	160	315M2-2					180	24	3.010	22	180L-4	30	200L-4	37	2258-
	D	310	68		90	280M-2	132	315M1-2	160	315M2-2	150	17		15	160L-4	18.5	180M-4	22	180L-4
	A	610	72		160	315M2-2					305	17.5		22	180L-4	30	200L-4	45	225M-
00.000	В	580	65	9 965	100	of Futine 16					290	16	9.000	18.5	180M-4	30	2000-4	37	225\$-4
00-250	C	520	47	3-250	110	315S-2	132	315M1-2			260	12	3-250	15	160L-4	18.5	180M-4	30	200L-4
	D	470	32		75	280S-2	90	280M-2	110	3155-2	240	8		11	160M-4	15	160L-4	15	160L-4
	A	710	122								350	30		45	225M-4	En.	25011	75	2000
	В	680	114								340	29		37	2255-4	55	250M-4	75	2805-
00-315		600		4-315							300	22	4-315	30	200L-4	37	2255-4	-55	250M-
	D	480			132	315M1-2					250	15		18.5	180M-4	22	180L-4	30	200L-
	A										420	50		90	280M-4	110	315S-4	160	315M2
	В										400	47		75	280S-4	110	3155-4	132	315M1-
00-400											360	36	4-400	55	250M-4	75	2805-4	110	3158-
	D										320	27		45	225M-4	55	250M-4	75	2805-
	E				-						520			7.0	EEU/III	- 100	EUOM-4	7.0	2300
	A										700	48		132	315M1-4				
	13										11000	0.00			315M1-4	160	315M2-4		
				1							660	44	4-400	132	310M(1-4	100	310M2-4		
50-400	C										600	20		90	280M-4	132	315M1-4		





SOURCE PUMPS & SYSTEMS CO.,LTD

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Fax: +86-411-86715305

E-mail: export@sourcegroup.com.cn

http://www.sourcegroup.com.cn http://www.sourcepump.com









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
- O Head H: up to 30~330 m
- O Pressure P: up to 4.0 MPa
- © Temperature t: -45~+420℃

Sealing

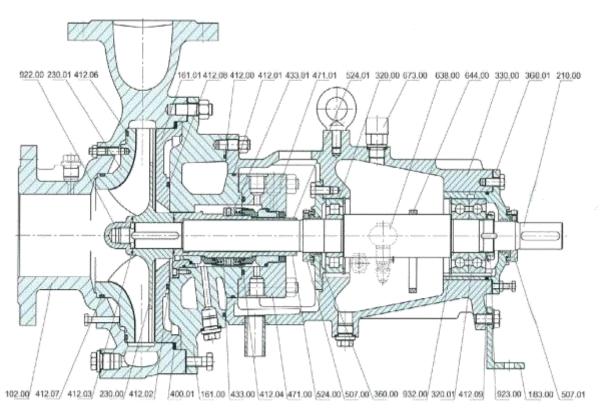
All layouts and systems to API682 are available.

Direction of rotation

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

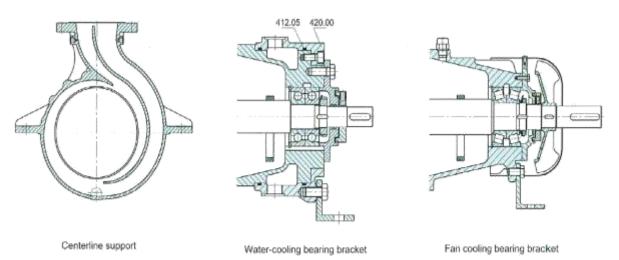


Section Drawing

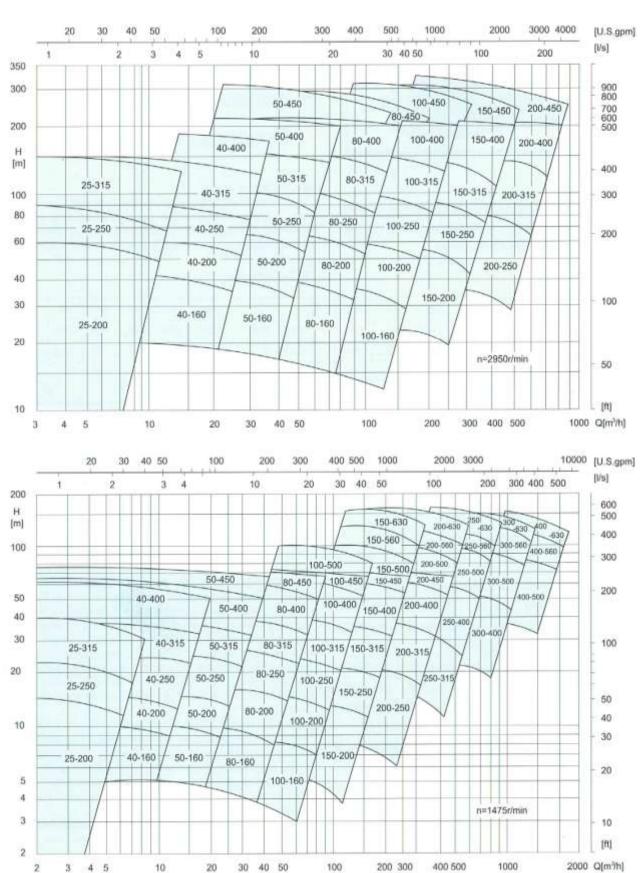


102.00	Pump Gasing	230.01	Wear Proof Board	400.01	Flat Gasket	412.06	O-Ring	471,00	Seal Cover	638.00	Constant Level Oiler
161.00	Pump Gover	320.00	Bearing	412.00	O-Ring	412.07	O-Ring	471.01	Seal Cover	644.00	Lubricating Ring
161.01	Wear Proof Board	320.01	Bearing	412.01	O-Ring	412.08	O-Ring	507.00	Deflector	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 Scal	524.00	Shaft Sleeve	923.00	Circular Nut
230.00	Impellar	360.01	Bearing Body	412.04	O-Ring	433.01	Mechanical Seal	524.01	Shaft Sleeve	932.00	Retainer

SOB Series Different structures









						- 77.0	eed 2950r/n	100							eed 1475r/n	-	
Туре	SY.	Q	н	F	roportion1.0	P	roportion 1.35	P	roportion 1.84	Q	н	1	Proportion 1.0	P	roportion1.35	P	roportion 1.8
3.44.3.5	51.	m³/h	m				Power	and T	уро	m³/h	m				Power	and Ty	ype
	A	11	52	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	5.6	12.5					1.5	Y90L-4
	В	10	45	4	Y112M-2	5.5	Y132S1-2	7.5	Y13282-2	5	11						
25-200	C	8.5	38	3	Y100L-2	4	Y112M-2	5.5	Y132S1-2	4.5	9.5	1.1	Y90S-4	1.1	Y90\$-4	1.1	Y90S-4
	D	7	30	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	4	7	2,110			Targett and	1.1	1903-4
	E	5.5	18	1.5	Y90S-2	1.5	Y90S-2	2.2	Y90L-2	3	4						
	Α	16	82	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	В	22	2.2	Y100L-4	3	Y100L2-4	4	Y112M-4
25-250	В	15	75	117	1 Idolais z		1 TOURNE	30	120061-2	7.5	18				Designation of the last of the		101400000000000000000000000000000000000
20-230	C	13	53	11	Y160M1-2	15	Y160M2-2	22	Y180M-2	6.5	14.5		Y90L-4	2.2	Y100L1-4	3	Y100L2-4
	D	11	40	10.00	San September	11	Y160M1-2	15	Y160M2-2	-	10.5	-	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4
	A	19	128	30	Y200L1-2	37	Y200L2-2	55	Y250M-2		9.32		Y132S-4	7.5	Y132M-4	11	Y160M-4
	В	17.5	0000	30	Y200L1-2	.37	Y200L2-2	45	Y225M-2	8.8	29	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4
25-315	C	15	105	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	8	24	3	Y100L2-4	4	Y112M-4	5.5	Y1325-4
	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
	A	27	32	5.5	Y13251-2	7.5	Y132S2-2	11	Y160M1-2	13.5						1.5	Y90L-4
40-160	В	25	28		144 400 A O	* *	MANAGE O		Manager of	12.5	NAME OF TAXABLE PARTY.	1.1	Y90S-4	1.1	Y90S-4		
	C	22	21	4	Y112M-2	5.5	Y13291-2	5.5	Y132S1-2	11	5		3000		ASSESSED	1.1	Y90S-4
	D	19	16	2.2	Y460M4.2	3	Y100L-2	40.5	Y112M-2	10	3.5	4.5	MODI 4	2.2	V1001 1 4	*	V4001 2.4
	A	34	51 46	7.5	Y160M1-2 Y132S2-2	15	Y160M2-2 Y160M1-2	18.5	Y160L-2	16	12.5	-	Y90L-4 Y90S-4	1.5	Y100L1-4 Y90L-4	3 2.2	Y100L2-4 Y100L1-4
40-200	B	26	36	5.5	Y132S1-2	7.5	Y132S2-2	15	Y160M2-2 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	Y905-4
	A	35	75	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2	17.5		3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
	В	33	70	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	16.5	DOM:	22	Y100L1-4	3	Y100L2-4	4	Y112M-4
40-250	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	Y13282-2	11	Y160M1-2	15	Y160M2-2	12.5	and the said	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-4
	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
	В	40	108	30	Y200L1-2	45	Y225M-2	55	Y250M-2	18	27	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4
40-315	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	Y1325-4
	A	42	200	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	20	50	15	Y160L-4	22	Y180L-4	30	Y200L-4
	В	36	190	75	Y280S-2	110	Y315S-2	160	Y315M2-2	17	45	11	Y160M-4	15	Y160L-4	22	Y100L1-4
40-400	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		120	45	Y225M-2	75	Y280S-2	90	Y280M-2	13	25	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4
	Α	50	33	11	Y160M1-2	15	Y160M2-2			25	8	1.5	Y90L-4	2.2	Y100L1-4	2.2	Y100L1-4
E0 405	В	44	29	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	22	7	1.0	190L-4	1.5	Y90L-4	6.6	Y100L1-4
50-160	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	354	1903~1	1.1	1503-1	1.1	Y90S-4
	A	60	52	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2	30	12.5	3	Y100L2-4	14	V1001-2-4	4	VIIIII
50-200	В	55	46	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	28	11	2.2	Y100L1-4	3	Y100L2-4		Y112M-4
30-200	Ċ	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
	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
50-250	В	65	72	50	120001-2		1200CE-E	45	Y225M-2	33	18	-		5.6	11020		110211111
00 E00	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
	Α	85	115	55	Y250M-2	75	Y280S-2	110	Y315S-2	43	28	11	Y160M-4	11	Y160M-4	15	Y160L-4
50-315	В	80	100	45	Y225M-2			90	Y280M-2	40	24	7.5	Y132M-4			140	
2000000	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	Y200L-2	30	13	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
	Α	W020	185	110	Y315S-2	160	Y315M2-2	100	AV SATURATION OF THE PARTY OF T	46	50	18.5	Y180M-4	22	Y180L-4	30	Y200L-4
	В		165	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	44	46	15	Y160L-4	18.5	Y180M-4	30	Y200L-4
50-400	C	0.00	150	75	Y280S-2	110	Y315S-2	132	Y315M1-2	40	36	11	Y160M-4	15	Y160L-4	18.5	Y180M-4
	D		130	75	Y280S-2	90	Y280M-2	132	Y315M1-2	34	27	7.5	Y132M-4	11	Y160M-4	15	Y160L-4
	E	hexyone f	110	55	Y250M-2	75	Y280S-2	110	Y3158-2		2.7		******		VARIABLE TO THE	per :	- harmon
	A	135	Achoresia	220		185		400		67	63	30	Y200L-4	45	Y225M-4	55	Y250M-4
50-450	В	125	2000	1100000	NAME AND ADDRESS OF	250		315		63	55	30	Y200L-4	37	Y225S-4	45	Y225M-4
WALL TO STATE OF	C	115	-	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



						Sp	eed 2950r/m	in						Sp	eed 1475r/m	nin	
Туре	1200	Q	н	P	roportion 1.0	P	roportion 1.35	Р	roportion 1.84	0	н	P	Proportion 1.0	Р	roportion1.35	P	roportion 1.8-
1700	SY.	m³/h	m				Power a	and Ty	ре	m³/h	10.05-011				Power a	and Ty	/pe
	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
80-160	В	90	27		Y160M1-2	15	Y160M2-2	18.5	Y160L-2	45	6.5	2.2	110002-4	2.2	Y100L1-4	3	Y100L2-4
00-100	C	80	22	11	1 100M 1-2	11	Y160M1-2	15	Y160M2-2	40	5.5	1.5	Y90L-4		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	1.1	1905-4	1.5	Y90L1-4
	Α	100	54	30	Y200L1-2	37	Y200L2-2	55	Y250M1-2	50	13	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4
80-200	В	90	48	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	46	12.5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
00-200	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
	Α	120	80	45	Y225M-2	75	Y280S-2	90	Y280M-2	60	20	7.5	Y132M-4	11	Y160M-4	15	Y160L-4
80-250	В	115	72	-799	0.00,000,000	55	Y250M-2	75	Y280S-2	57	18	7.(62	1.100141.4	7.5	Y132M-4	11	Y160M-4
00 200	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
	Α	130	120	90	Y280M-2	110	Y315S-2	185		65	30	15	Y160L-4	18.5	Y180M-4	22	Y180L-4
80-315	В	-	112	75	Y280S-4	90	Y280M-2			62	28	11	Y160M-4	15	Y160L-4		1212349-11134
	C	110	88	55	Y250M-2	75	Y280S-2			55	22	0135	1,000,000,000	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
	Α	160	168	160	Y315M2-2	160	Y315M2-2	315		85	46	22	Y180L-4	30	Y200L-4	45	Y225M-4
	В	-	145	132	Y315M1-2	160	Y315M2-2	220		80	41	18.5	Y180M-4	- 00	12002	37	Y225S-4
80-400	C		125	110	Y315S-2	132	Y315M1-2	185		65	33	15	Y160L-4	18.5	Y180M-4	30	Y200L-4
	D		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								
	Α	and the personnel	229	350		450		630		103	60	37	Y225S-4	55	Y250M-4	75	Y280S-4
	В	and the same	205	220		280		400		98	57	37	Y225S-4	45	Y225M-4	75	Y280S-4
80-450	C	and the same of the same	188	185		250		355		83	47	30	Y200L-4	30	Y200L-4	45	Y225M-4
	D		158	160	Y315M2-2	200		250		70	32	15	Y160L-4	22	Y180L-4	30	Y200L-4
	E	and the same	128	110	Y315S-4	132	Y315M-4	180									
	Α	160	28	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	80	7	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
100-160	В	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
	Α	170	49	45	Y225M-2	50	Y250M-2	75	Y280S-2	85	12	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4
100-200	В	160	43	37	Y200L2-2	45	Y225M-2	100		80	10.5	1				-	
	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
	Α	230	77	75	Y280S-2	90	Y280M-2	132	Y315M1-2	115	19	11	Y160M-4	15	Y160L-4	18.5	Y180M-4
100-250	В	220	70	1000	CONTRACT OF			-		110	17	22		11	Y160M-4	15	Y160L-4
	С	190	55	45	Y225M-2	75	Y280S-4	90	Y280M-2	100	13	7.5	Y132M-4			11	Y160M-4
	D	1000	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	-	132	Y315M1-2	185	140 4 22 4 4 20 0	250		125	1000	18.5	Y180M-4	30	Y200L-4	37	Y225S-4
100-315	В	235		132	Y315M1-2	160	Y315M2-2	220	LOCATIAN N	120	29	46	200000 4	22	Y180L-4	30	Y200L-4
	C	100000	95	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	105	23	15	Y160L-4	18.5	Y180M-4	22	Y180L-4
	D	100000	70	75	Y280S-2	75	Y280S-2	110	Y315S-2	85	16	11	Y160M-4	11	Y160M-4	15	Y160L-4
	A	280	1111111111111	250		315		450		145	_	37	Y225S-4	45	Y225M-4	75	Y280S-4
	В	260		200		280		355		135	33727	37	Y225S-4			55	Y250M-4
100-400	C	240	-	160	Y315M2-2	220		315		120	36	22	Y180L-4	30	Y200L-4	45	Y225M-4
	D	215	1	132	Y315M1-2	185	Wateria e	250		100	29	15	Y160L-4	22	Y180L-4	30	Y200L-4
	E	205	1119921	110	Y315S-2	160	Y315M2-2	200		102	0.4	EF	Vacant	75	VARAD 4	***	VOAED A
	A	330	occurred to	380		560		710		167	10000	55	Y250M-4	75	Y280S-4	110	Y315S-4
100-450	В	310	2021	350		500		630		155		45	Y225M-4	75	Y280S-4	90	Y280M-4
	C	260	100	250	VO4544.0	315		450		132	1000	37	Y225S-4	45	Y225M-4	75	Y280S-4
	D	200	145	132	Y315M-2	185		250		102	100	22	Y180L-4	30	Y200L-4	37	Y225S-4
	A		-							175		75	Y280S-4	90	Y280M-4	132	Y315M1-4
100 500	В									-	72	75	Y280S-4	90	Y280M-4	110	Y315S-4
100-500	C									150	54	45	Y225M-4	75	Y280S-4	90	Y280M-4



						Sp	eed 2950r/m	in						Sp	eed 1475r/r	nin	
Type		Q	Н	- 1	roportion 1.0	P	roportion 1.35	P	roportion1.84	0	н	-	Proportion 1.0	P	roportion1.35	P	roportion 1.8
	SY.	m ³ /h					Power a	and Ty	/pe	m³/h	4/2/2				Power	and T	ype
	A B	300 280	45 40	55 45	Y250M-2 Y225M-2	75	Y280S-2	110	Y315S-2 Y280M-2		11.5	7.5	Y132M-4	11	Y160M-4	15	Y160L-4
150-200	C	260	30	37	Y200L2-2	45	Y225M-2	75	Y280S-2	100000	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
	Α	380	74	110	Y315S-2	160	Y315M2-2	200		190	18	15	Y160L-4	22	Y180L-4	30	Y200L-4
150-250	В	350	60	90	Y280M-2	110	Y315S-2	160	Y315M2-2	180	15	15	7100L-4	18.5	Y180M-4	22	Y180L-4
	C	300	48	75	Y280S-2	90	Y280M-2	110	Y3158-2	150	12	11	Y160M-4	11	Y160M-4	15	Y160L-4
	A	440	124	220		280		400	- CANCELLOS	220	31	30	Y200L-4	45	Y225M-4	55	Y250M-4
150-315	В	420	115	185		250		355		210	29		3,69000037.	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
	A	B ithamos	190	380		560		710		160	50	55	Y250M-4	75	Y280S-4	110	Y314S-4
	В	480	170	355		450		630		100000000000000000000000000000000000000	46					90	Y280M-4
150-400	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									
	A	538	250	560		800		1120		270	64	75	Y250S-4	110	Y315S-4	160	Y315L1-4
450 450	В	490	230	500		710		900		260	62	75	Y250S-4	110	Y315S-4	132	Y315M-4
150-450	C	-	210	400		560		800		1000000	52	55	Y250M-4	75	Y280S-4	110	Y315S-4
	D	390	175			400		560		170	36	22	Y180L-4	37	Y225S-4	55	Y250M-4
	E	340	150	220		315		400		man	700	448	LIBARD A	488	100.00114	400	
	٨										75	110	Y315S-4	132	Y315M1-4	185	
150-500	В			_						-	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-4
	C			_						-	56	75	Y280S-4	90	Y280M-4	110	Y315S-4
	D							_		200	44	45	Y225M-4	75	Y280S-4	75	Y208S-4
	A										97	160	Y315M2-4	185	300000000	250	
150-560	B										91	132	Y315M1-4	160	Y315M2-4	220	V248112.4
	D									10000	70 54	90 75	Y280M-4	132	Y315M1-4	160	Y315M2-4
	A									britannone	113	220	Y280S-4	90	Y315S-4	110	Y315S-4
	В									340	2000	185		250		355	
150-630	C									280	78	132	Y315M1-4	160	Y315M2-4	200	
	D									220	58	75	Y280S-4	110	Y315S-4	160	Y315M2-4
	A	600	70	160	Y315M2-2	220		315		-	17.5	22	Y180L-4	30	Y200L-4	45	Y225M-4
	В	570	62	160	Y315M2-Z	185		250		285	16	18.5	Y180M-4	30	Y200L-4	37	Y2255-4
200-250	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
	A	650		315	120000	400	1 8 0 0 0 0	560	10100 %	330		45	Y225M-4	55	Y250M-4	75	Y280S-4
2022204	В	630	1000	280		355		500		320		37	Y225S-4	55	Y250M-4	75	Y280S-4
200-315	C	580	88	200		250		355		300		30	Y200L-4	37	Y2258-4	55	Y250M-4
	D	500	7.5	132	Y315M1-2	180		220		100000	15	18.5	Y180M-4	22	Y180L-4	30	Y200L-4
	A	820	-	630		900		1120		10000	50	90	Y280M-4	110	Y315S-4	160	Y315M2-4
	В	760	-	500		710		900		400	100	75	Y280S-4	110	Y315S-4	132	Y315M1-4
200-400	C	720	-	450		560		1120			36	55	Y250M-4	75	Y280S-4	110	Y315S-4
	D	660	-	355		450		630		320	1212521	45	Y225M-4	55	Y250M-4	75	Y280S-4
1	E	600	Printers (SA)	280		355		500				30,00,00	a jednika kanana			1100000	
	A	940	255	1000		1400		1600		460	65	132	Y315M-4	185		250	
onn acn	В	880	240	900		1120		1800		442	62	110	Y315S-4	160	Y315L1-4	220	
200-450	C	760	205	630		900		1600		382	48	75	Y2805-4	90	Y280M-4	160	Y315L1-4
	D	570	145	355		450		630		310	34	45	Y225M-4	75	Y280S-4	90	Y280M-4
	Α		7							500	80	160	Y315M2-4	220		315	
	В									480	75	100		200		315	
200-500	C									440	68	132	Y315M1-4	160	Y315M2-4	220	
	D									420	57	110	Y315S-4	132	Y315M1-4	185	
	E									360	43	75	Y2805-4	110	Y315S-4	132	Y315M1-4



					Speed 2950r/min						Sp	eed 1475r/r	nin	
Type		Q	н	Proportion 1.0	Proportion 1.35	Proportion 1.84	Q	н	1	Proportion 1.0	P	roportion1.35	P	roportion1.8
12.0001.01	SY.	m^3/h	m		Power and	Type	m ³ /h	m				Power	and T	ype
	Α						550	96	220		280		400	
200-560	В						500	A Common or other Designation of the last	185		250		315	
200-560	C						440	68	160	Y315M2-4	185		200	
	D						360	52	110	Y315S-4	132	Y315M1-4	160	Y315M2-4
	Α						580	132	315		450		630	
200-630	В						560	and the second	distribution in		400		560	
200 000	C						500	-	200	A THE STREET	280		400	
	D						420	70	132	Y315M1-4	160	Y315M2-4	220	100000000000000000000000000000000000000
	A						540	diam'r.	55	Y250M-4	75	Y280S-4	110	Y315S-4
250-315	В		-				520	25	55	Y250M-4	75	Y280S-4	90	Y280M-4
	C		-			_	460	_	37	Y250S-4	55	Y250M-4	75	Y280S-4
	D						420	13	30	Y200L-4	37	Y225S-4	45	Y225M-4
	A B						700	0.01000	132	Y315M1-4	185	CONTENTS A	220	
250-400	C					_	660	35	132	Y315M1-4 Y280M-4	160	Y315M2-4 Y315M1-4	200 160	Y315M2-4
	D					_	500	de conse	75	Y280S-4	-	Y280M-4	-	Y3158-4
	Α						800		250	12000-4	90 355	1.20UW-4	630	10100-4
	В						750	-	220		315		560	
250-500	C		\neg				680	P ONGS	160	Y315M2-4	200		280	
1	D						and the second	-	110	Y315S-4	160	Y315M2-4	185	
	Α						850	-	355	10100 4	500	TOTOINE 4	630	
	В						820	96	315		450		560	
250-560	C						750	76	220		315		500	
	D						620	56	160	Y315M2-4	220		315	
	A						-	124		1000778888	560		800	
250-630	В						800	-	-		500		710	
250-630	C						700	94	280		255		500	
	D						600	70	185		220		280	
	Α						1050	47	185		280		355	
300-400	В						1000	44	160	Y315M2-4	220		315	
	C							33	132	Y315M1-4	160	Y315M2-4	200	
	D							26	90	Y280M-4	132	Y315M1-4	160	Y315M2-4
	Α					_	1250	_	400		530		710	
300-500	В		щ				1200		355		450		630	
	C	-	-			_	1100	Name (1)	250	EU-AU-AU-AU-AU-A	315		450	
_	D		-			_	1000	minimized in	160	Y315M2-4	220		280	
	A		-				1400	-	560		710		1000	
300-560	B C						1350		500		630		900	
	D						1200 1100		355		400 250		560 400	
	A						1500		200		200		400	
	В						1450						_	
300-630	C						1300							
	D						1050	terror or a						
	A						1850		560		710		1000	
400 500	В						1800		450		630		800	
400-500	C						1500	$\overline{}$	280		400		530	
	D						1200	march4	185		250		315	
	Α						2000		710		1000		1250	
400-560	В						1900		630		900		1120	
100-000	C						1750		450		630		900	
	D						1450	52	180		400		530	
	A						2400				1400		1800	
400-630	В						2300		1000		1250		1800	
100 000	C						2000		710		800		1000	
	D						1600	67	400		560		710	





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



Source Pumps & Systems Co., LTD.



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
 - \bigcirc Capacity Q: up to 25 ~ 2000 m3/h
 - © Head H: up to 15 ~ 160 m
 - O Pressure P: up to 2.5 MPa
 - \odot Temperature t: -80 ~ +150 $^{\circ}$ 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

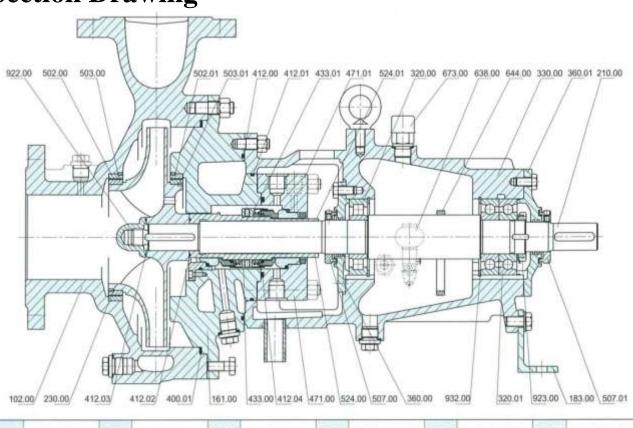
SOA series petrochemical processing pump is mainly structured with radial split. Its casing is designed to be foot support (SOB) and centerline support . The casing with larger than 80 mm (including 80mm)-diameter is designed double-volute, which can balance the radial thrust. The pressure chamber forms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

The pump can be equiped 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 sea l, single-end and double-end mechanical seal which can be equipped with various flushing plans.

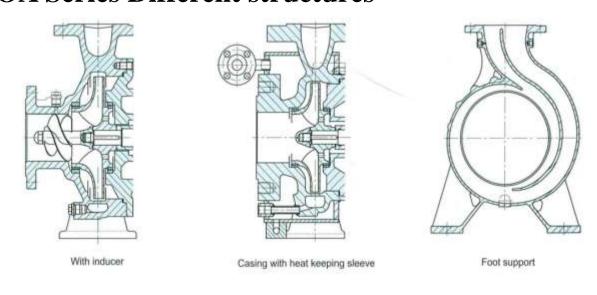


Section Drawing

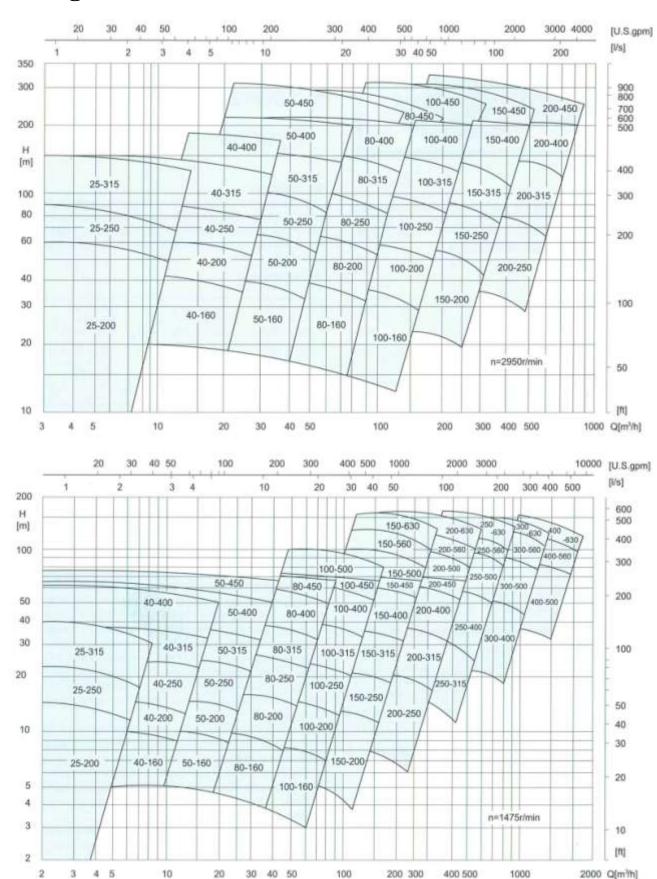


102.00	Pump Casing	320.01	Bearing	412.01	O-Ring	433.00	Mechanical Seal	503.00	Impeller Wear Ring	638.00	Constant Level Oil
161.00	Pump Cover	330.00	Bearing House	412.02	O-Ring	433.01	Mechanical Seal	503.01	Impelier Wear Ring	644.00	Lubricating Ring
183.00	Foot	360.00	Bearing Cover	412.03	O-Ring	471.00	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









是便	叶轮	加量	接			Colonia Colonia	eed 2950r/r	0000		流	扬程				eed 1475r/n	320.427	
Type	代号	流量Q	程日	比圖P	roportion1.0	比重P	roportion 1.35	比重P	roportion 1.84	III C	H	比重F	Proportion 1.0	比重P	roportion 1.35	比重P	roportion1.
70 MP 70-	SY.	m³/h			电机功率	(kW)及	항등 Power	and T	ype	m ³ /h	m		电机功率	(kW)及	型号 Power	and T	ype
	Α	11	52	5.5	Y132S1-2	7.5	Y13252-2	11	Y160M1-2	5.6	12.5			T		1.5	Y90L-4
	В	10	45	4	Y112M-2	5.5	Y132S1-2	7.5	Y132S2-2	5	11		1770-180-1		LONG-PARTIES		
25-200	C	8.5	38	3	Y100L-2	4	Y112M-2	5.5	Y132S1-2	4.5	9.5	1.1	Y90S-4	1.1	Y90S-4	1.1	Y90S-4
	D	7	30	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	4	7					3.0	19034
	E	5.5	18	1.5	Y90S-2	1.5	Y90S-2	2.2	Y90L-2	3	4						
25-250	A B	16 15	82 75	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	8 7.5	22 18	2.2	Y100L-4	3	Y100L2-4	4	Y112M-4
20-200	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-
	D	11	40		1 100M 1-2	11	Y160M1-2	15	Y160M2-2	5.5	10,5	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-
	Α	19	128	30	Y200L1-2	37	Y200L2-2	55	Y250M-2	9.5	Total Control	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-
	В	17.5	-	30	Y200L1-2	37	Y200L2-2	45	Y225M-2	8.8	29	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-
25-315	C	15	105	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	8	24	3	Y100L2-4	4	Y112M-4	5.5	Y1325-
	D	14	90	18,5	Y160L-2	30	Y200L1-2	37	Y200L2-2	7	22	3	Y100L2-4	4	Y112M-4	5.5	Y132S-
	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-
	A	27	32	5.5	Y132S1-2	7.5	Y132S2-2	11	Y160M1-2	13.5	-					1.5	Y90L-4
40-160	В	25	28		MARONA	0.0	MACODA			12.5	4-1	1.1	Y90S-4	1.1	Y90S-4	-	
	C	22	21	4	Y112M-2	5.5	Y132S1-2	5.5	Y132S1-2	11	5					1.1	Y90S-4
	D	19	16	2.2	Y90L-2	3	Y100L-2	4	Y112M-2	10	3.5	4.0	MOOL 4	0.0	MARON A A	-	Mann n
	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-
40-200	В	31	46	7.5	Y132S2-2 Y132S1-2	11	Y160M1-2	15	Y160M2-2	16	11	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-
	C	26	36 27	5.5		7.5	Y132S2-2	11	Y160M1-2 Y132S2-2	14	8.5	1.1	Y90S-4	1.1	Y90S-4 Y90S-4	1.5	Y90L-4 Y90S-4
	D	23 35	75	18.5	Y112M-2 Y160L-2	5.5	Y132S1-2 Y180M-2	7.5	Y200L1-2	17.5	to bring	1.1	Y90S-4 Y100L2-4	1.1	Y112M-4	1.1	Y132S-4
	A B	33	70	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	16.5	E STORYUM	2.2	Y100L1-4	3	Y100L2-4	4	Y112M-
10-250	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-
	D	24	38	7.5	Y132S2-2	11	Y160M1-2	15	Y160M2-2	12.5	-	1.1	Y90S-4	1.5	Y90L-4	2.2	Y100L1-
	A	42	120	37	Y200L2-2	45	Y225M-2	75	Y280S-2	20	30	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-
00/102	В	40	108	30	Y200L1-2	45	Y225M-2	55	Y250M-2	18	27	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-
40-315	C	32	85	22	Y180M-2	30	Y200L1-2	45	Y225M-2	15	22	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-
	D	29	60	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	13	18	3	Y100L2-4	3	Y100L2-4	5.5	Y132S-4
	A	42	200	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	20	50	15	Y160L-4	22	Y180L-4	30	Y200L-4
	В	36	190	75	Y280S-2	110	Y315S-2	160	Y315M2-2	17	45	11	Y160M-4	15	Y160L-4	22	Y100L1-
40-400	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-
	Α	50	33	11	Y160M1-2	15	Y160M2-2	15	Y160M2-2	25	8	1.5	Y90L-4	2.2	Y100L1-4	2.2	Y100L1-
50-160	В	44	29	7.5	Y132S2-2	11	Y160M1-2	10	T TOUNE-2	22	7	1.0	Caracter	1.5	Y90L-4	6.6	11000
30-100	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	1-1	1500-1	1.5	1200-1	1.1	Y90S-4
	Α	60	52	18.5	Y160L-2	22	Y180M-2	30	Y200L1-2	30	12.5	3	Y100L2-4	3	Y100L2-4	4	Y112M-4
50-200	В	55	46	15	Y160M2-2	18.5	Y160L-2	22	Y180M-2	28	11	2.2	Y100L1-4		1,10000	127	1 Traint
	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-
	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-
	A	70	80	30	Y200L1-2	37	Y200L2-2	55	Y250M-2	35	20	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-
50-250	В	65	72	1 1/2/11	10.202301.00	2000	Version and a second	45	Y225M-2	33	18	. 524	2.000 (2000) (2000)	920	MARKET CO.	10000	100000000000000000000000000000000000000
	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-
	A	85	115	55	Y250M-2	75	Y280S-2	110	Y315S-2	43	28	11	Y160M-4	11	Y160M-4	15	Y160L-4
0-315	В	80	100	45	Y225M-2			90	Y280M-2	40	24	7.5	Y132M-4	7.0	bramma. A	017711	
	C	68	78	30	Y200L1-2	45	Y225M-2	55	Y250M-2	35	18	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-
	D	55	58	22	Y180M-2	30	Y200L1-2	37	Y200L-2	30	13	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
	A	90	185	110	Y315S-2	160	Y315M2-2	400	Votesto o	46	50	18.5	Y180M-4	22 10 E	Y180L-4	30	Y200L-4
0.400	B	85	165	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	44	46	15	Y160L-4	18.5	Y180M-4	30	Y200L-4
50-400	C	75	150	75	Y280S-2	110	Y315S-2	132	Y315M1-2	40	36	11	Y160M-4	15	Y160L-4	18.5	Y180M-
	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	125	110	220	Y250M-2	75	Y280S-2	110	Y315S-2	67	69	20	V2001 A	35	V22EM 4	66	VOEGLA
		135		185		185		400		67	63	30	Y200L-4 Y200L-4	45	Y225M-4 Y225S-4	55	Y250M-4 Y225M-4
50-450	-	125	0.000	185	Y315M-2	250 185		315 250		63 57	55 46	18.5	Y180M-4	37	Y2255-4 Y200L-4	45 37	Y225S-4
	D		130	90	Y180M-2	110	Y315S-2	160	Y315L1-2	48	32	11	Y160M-4	18.5	Y180M-4	22	Y180L-4



TEL: +86-411-66853898 FAX: +86-411-86715305

20157	0146	流	扬		鲢	速 Sp	eed 2950r/n	nin		流	扬		ţ!	速 Sp	eed 1475r/r	nin	
型号 Type	代号		程出	比重F	roportion1.0	比重P	roportion1.35	比重P	roportion 1.84	量の	程出	比重F	roportion1.0	比重P	roportion1.35	比重P	roportion1.8
	SY.	m³/h	m		电机功率	(kW)及	型号 Power	and Ty	уре	m³/h	m		电机功率	(kW)及	型号 Power	and Ty	/pe
	Α	100	30	15	Y160M2-2	18.5	Y160L-2	30	Y200L1-2	50	8	2.2	Y100L2-4	3	Y100L2-4	4	Y112M-4
80-160	В	90	27	11	Y160M1-2	15	Y160M2-2	18.5	Y160L-2	45	6.5	20.00	110052	2.2	Y100L1-4	3	Y100L2-4
00-100	C	80	22	1.1-1	1 100W11-2	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	(4)		1.5	Y90L1-4
	Α	100	54	30	Y200L1-2	37	Y200L2-2	55	Y250M1-2	50	13	4	Y112M-4	5.5	Y132S-4	7.5	Y132M-4
80-200	В	90	48	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	46	12.5	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
24.222	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
	Α	120	80	45	Y225M-2	75	Y280S-2	90	Y280M-2	60	20	7.5	Y132M-4	11	Y160M-4	15	Y160L-4
80-250	В	115	72	_		55	Y250M-2	75	Y280S-2	57	18			7.5	Y132M-4	11	Y160M-4
00.200	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
	A	130	120	90	Y280M-2	110	Y315S-2	185		65	30	15	Y160L-4	18.5	Y180M-4	22	Y180L-4
80-315	В	125	112	75	Y280S-4	90	Y280M-2			62	28	11	Y160M-4	15	Y160L-4	2473	0.000040.00
100000	C	110	88	55	Y250M-2	75	Y280S-2			55	22	100000	V/12/10/10/07	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
	Α	160	168	160	Y315M2-2	160	Y315M2-2	315		85	46	22	Y180L-4	30	Y200L-4	45	Y225M-4
research	В	150	145	132	Y315M1-2	160	Y315M2-2	220		80	41	18.5	Y180M-4			37	Y225S-4
80-400	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								
	Α	200	Salutanion of	350		450		630		103	60	37	Y225S-4	55	Y250M-4	75	Y280S-4
	В	188	-	فيالها والمراجعة		280		400		98	57	37	Y225S-4	45	Y225M-4	75	Y280S-4
80-450	C		188	185		250		355		83	47	30	Y200L-4	30	Y200L-4	45	Y225M-4
	D		158	160	Y315M2-2	200		250		70	32	15	Y160L-4	22	Y180L-4	30	Y200L-4
	E	-	128	110	Y315S-4	132	Y315M-4	180							Lancau,	- Control of	
	Α	160	28	22	Y180M-2	30	Y200L1-2	37	Y200L2-2	80	7	3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
100-160	В	150	24	15	Y160M2-2	22	Y180M-2	30	Y200L1-2	72	5.5	2.2	Y100L1-2	3	Y100L2-4	4	Y112M-4
100-100	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
	Α	170	49	45	Y225M-2	50	Y250M-2	75	Y280S-2	85	12	5.5	Y132S-4	7.5	Y132M-4	11	Y160M-4
100-200	В	160	43	37	Y200L2-2	45	Y225M-2	177/5	Waste State	14000000	10.5	27.60	(Maries and M	100	10 SEE SEE	344	CONTRACTOR IN
	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
	Α	230	77	75	Y280S-2	90	Y280M-2	132	Y315M1-2	115	19	11	Y160M-4	15	Y160L-4	18.5	Y180M-4
100-250	В	220	_			7.5		31.515		110	-			11	Y160M-4	15	Y160L-4
1.000.000	C	190	-	45	Y225M-2	75	Y280S-4	90	Y280M-2	100	-	7.5	Y132M-4		XI-LOUIS AND	11	Y160M-4
	D	170	1	37	Y200L2-2	45	Y225M-2	75	Y280S-2	90	10000000	5.5	Y132S-4	7.5	Y132M-4	7.5	Y132M-4
6	Α	250	1000000	132	Y315M1-2	185		250		125		18.5	Y180M-4	30	Y200L-4	37	Y225S-4
100-315	В	235		132	Y315M1-2	160	Y315M2-2	220		120	10000	1000	11000-0000	22	Y180L-4	30	Y200L-4
	C	200	_	90	Y280M-2	132	Y315M1-2	160	Y315M2-2	105	-	15	Y160L-4	18.5	Y180M-4	22	Y180L-4
-	D	165		75	Y280S-2	75	Y280S-2	110	Y315S-2	85	16	11	Y160M-4	11	Y160M-4	15	Y160L-4
	Α	280		-		315		450		145		37	Y225S-4	45	Y225M-4	75	Y280S-4
250 0,000	В	260		200		280		355		135	-	37	Y225S-4		Wichold In	55	Y250M-4
100-400	С	240	-	160	Y315M2-2	220		315		120	-	22	Y180L-4	30	Y200L-4	45	Y225M-4
	D	215		132	Y315M1-2	185	NO MANGEMENT OF	250		100	29	15	Y160L-4	22	Y180L-4	30	Y200L-4
	E	205	2.00	100000000000000000000000000000000000000	Y315S-2	160	Y315M2-2	200		2000	OLOGO P				0.00001-0000	200.00	
	Α	330				560		710		167	11.51.0	55	Y250M-4	75	Y280S-4	110	Y3158-4
100-450	В	310	-	100000		500		630		155		45	Y225M-4	75	Y280S-4	90	Y280M-4
	С	260	-			315		450		132		37	Y225S-4	45	Y225M-4	75	Y280S-4
	D	200	145	132	Y315M-2	185		250		102		22	Y180L-4	30	Y200L-4	37	Y225S-4
	Α									175		75	Y280S-4	90	Y280M-4	132	Y315M1-4
100-500	В									165		75	Y280S-4	90	Y280M-4	110	Y315S-4
HOLDING.	С									150	72250	45	Y225M-4	75	Y280S-4	90	Y280M-4
	D									125	42	30	Y200L-4	45	Y225M-4	55	Y250M-4



AU (2)	叶蛇	流	扬程				eed 2950r/n			流	扬程		- 51	e速 Sp	eed 1475r/r	min	
型号 Type	代号	田口	程H	比重F	Proportion 1.0	比重P	roportion1.35	比重P	roportion1.84	量口	程日	比重	Proportion 1.0	比重P	roportion1.35	比重P	roportion 1.8
	SY.	m ³ /h	m		电机功率	(kW)及	型号 Power	and Ty	/pe	m³/h	m		电机功率	(kW)∄	진당 Power	and T	ype
	A	300 280	45 40	55 45	Y250M-2 Y225M-2	75	Y280S-2	110	Y315S-2 Y280M-2	design to the second	11.5 9.5	7,5	Y132M-4	11	Y160M-4	15	Y160L-4
150-200	C	260	30	37	Y200L2-2	45	Y225M-2	75	Y280S-2	-	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		3	Y100L2-4	4	Y112M-4	5.5	Y132S-4
	Α	380	74	110	Y315S-2	160	Y315M2-2	200		190	4	22	SANGER MIN	22	Y180L-4	30	Y200L-4
150-250	В	350	60	90	Y280M-2	110	Y315S-2	160	Y315M2-2	180	_	15	Y160L-4	18.5	Y180M-4	22	Y180L-4
	C	300	48	75	Y280S-2	90	Y280M-2	110	Y315S-2	150	المتارينات	11	Y160M-4	11	Y160M-4	15	Y160L-4
	A	440	124	220	20020500	280		400		220	31	20	VODOL A	45	Y225M-4	er.	
150 245	В	420	115	185		250		355		210	29	30	Y200L-4	37	Y225S-4	55	Y250M-4
150-315	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
	A	500	190	380		560		710		160	50	125	veneral i		Manage 4	110	Y314S-4
	В	480	170	355		450		630		150	46	55	Y250M-4	75	Y280S-4	90	Y280M-4
150-400	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									
	A	538	250	560		800		1120		270	64	75	Y250S-4	110	Y315S-4	160	Y315L1-4
	В	490	230	500		710		900		260	62	75	Y250S-4	110	Y315S-4	132	Y315M-4
150-450	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									
	Α									300	75	110	Y315S-4	132	Y315M1-4	185	
150-500	В									280	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-
150-500	C									240	56	75	Y280S-4	90	Y280M-4	110	Y315S-4
	D						F 0			200	44	45	Y225M-4	75	Y280S-4	75	Y208S-4
	Α									300	97	160	Y315M2-4	185		250	
150-560	В									290	91	132	Y315M1-4	160	Y315M2-4	220	
100-000	C									260	70	90	Y280M-4	132	Y315M1-4	160	Y315M2-4
	D									220	54	75	Y280S-4	90	Y315S-4	110	Y315S-4
	A									360	113	220		280		400	
150-630	В									340	103	185		250		355	
100-000	C									280	78	132	Y315M1-4	160	Y315M2-4	200	
	D									220	58	75	Y280S-4	110	Y315S-4	160	Y315M2-4
	A	600	70	160	Y315M2-2	220		315		300	17.5	22	Y180L-4	30	Y200L-4	45	Y225M-4
200-250	В	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
	A	650		315		400		560		330	30	45	Y225M-4	55	Y250M-4	75	Y280S-4
200-315	В	630	-	280		355		500		320	28	37	Y225S-4	55	Y250M-4	75	Y280S-4
	С	-	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
	A	820	or a named of	630		900		1120		420	50	90	Y280M-4	110	Y315S-4	160	Y315M2-4
1903.000	В	760	-	500		710		900			47	75	Y280S-4	110	Y315S-4	132	Y315M1-4
200-400	C	720	-	OAL SUSPENIES		560		1120		360	36	55	Y250M-4	75	Y280S-4	110	Y315S-4
	D	660		355		450		630		320	27	45	Y225M-4	55	Y250M-4	75	Y280S-4
	NAME OF TAXABLE PARTY.	600	ulminery)	280		355		500		15001							
	-	510550	CONTRACT OF	1000		1400		1600		460	65	132	Y315M-4	185		250	
200-450	-	880		-		1120		1800		442	62	110	Y315S-4	160	Y315L1-4	220	
30 100		760	100			900		1600		382	The Parket	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
	Α									500	80	160	Y315M2-4	220		315	
	В									480	75			200		315	
200-500	C									440	A A Property of	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





型号 Type	叶轮 代号 SY.	流量 Q m ^l /h	肠程 H m	转速 Speed 2950r/min 比重Proportion1.0 比重Proportion1.35 比重Proportion1.84 电机力率(kW)及型号 Power and Type							流	扬	長速 Speed 1475r/min						
											流量Q	扬程日							
											m ³ /ř								
	Α											550	96	220		280		400	
200-560	В											500	85	185		250		315	
200-000	C											440	68	160	Y315M2-4	185		200	
	D											360	52	110	Y315S-4	132	Y315M1-4	160	Y315M2-
	Α											-	132	-		450		630	
200-630	В												123	emitted belowing		400		560	
E/0.0381	С											500	1000000	200		280		400	
	D								_			420		132	Y315M1-4	160	Y315M2-4	220	
250-315	A		Н						_			540	-	55	Y250M-4	75	Y280S-4	110	Y315S-4
	В	-								-		520	25	55	Y250M-4	75	Y280S-4	90	Y280M-4
	C		-						-		-	460	19	37	Y250S-4	55	Y250M-4	75	Y280S-4
	D A								-			420	13	30	Y200L-4	37	Y225S-4	45	Y225M-4
250-400	В								H			700	48	132	Y315M1-4	185	VOAENO A	220	
	C											660	@h/M/Web	132	Y315M1-4 Y280M-4	160	Y315M2-4 Y315M1-4	160	Y315M2-4
	D											500	25	75	Y280S-4	90	Y315M1-4 Y280M-4	110	Y315N/2-4
	A											800	80	250	12000-4	355	1200WI-4	630	13135-4
250-500	В								_			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												104	355	10100 1	500	1 D TOMAL 4	630	
	В								Ħ			820	96	315		450		560	
	C											the State of the	76	220		315		500	
	D											620	56	160	Y315M2-4	220		315	
250-630	Α											850	STATE AND DESCRIPTION OF THE PERSON NAMED IN	450		560		800	
	В											800		400		500		710	
	C												94	280		255		500	
	D												70	185		220		280	
300-400	A											1050	47	185		280		355	
	В										- 0	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	
	В										- 3	1200	76	355		450		630	
	С											1100	58	250		315		450	
	D											1000		160	Y315M2-4	220		280	
300-560	A											1400	100	560		710		1000	
	В										-	1350		500		630		900	
	С											1200	10.0551	355		400		560	
	D											1100		200		250		400	
300-630	A	-	-									1500							
	В	-	-	-						-		1450							
	C	-	\vdash	-		_	-	-		+		1300		_					
400-500	D											1050		FDD		7/0		4000	
	A											1850		560		710		1000	
	B										_	1800		450		630		800	
	D											1500		280		400		530	
400-560	A											2000		185		250		315	
	В							- +				1900		710 630		1000		1250	
	C										-	1750	-	450		630		900	
	D										-	1450		180		400		530	
	A													1120		1400		1800	
400-630	В													1000		1250		1800	
	C											2000		710		800		1000	
	D													400		560		710	





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