

SB Series Sand Pump

SB Sand Pump

The SB series of pumps is designed and engineered to handle abrasive, viscous and corrosive fluids in drilling fluid or industrial slurry applications. The pump performance is matched by exceptional performance, high volume, high temperature capabilities, long service life, easier to maintenance, overall economy and greater savings. SB centrifugal pumps are currently used for mud mixing and shearing operations, desanding and desilting, degassing, supercharging, centrifugal feed, mud cooling towers, wash down etc. And chemical, refinery, industrial, construction and agricultural applications.

**Oil Drilling&HDD**

Mud Solids Control Specialist

1) Working conditionsOutlet: DN=2"~6" Flow: $Q=20\sim400\text{m}^3/\text{h}$ Head: $H=12\sim62\text{m}$ Working temperature: $T=-40^{\circ}\text{C}\sim60^{\circ}\text{C}$ **2) Explanation of model**SB - 6 × 5 - 11

Impeller Dia.(Inches)

Pump outlet Dia.(Inches)

Pump inlet Dia.(Inches)

Single-stage & single-suction mud pump

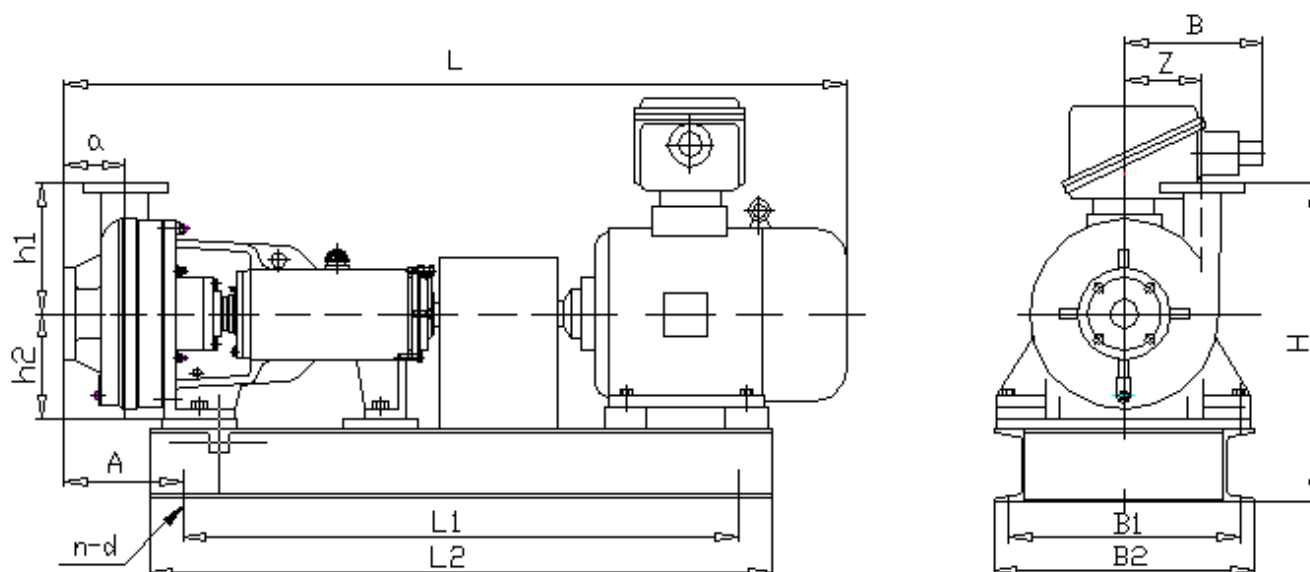
SB series Sand Pump

Model	Flow	Lift	Power	Speed	Efficiency
SB8×6-14	320m ³ /h	40m	75KW	1450r/min	65%
SB8×6-13	290m ³ /h	35m	55KW	1450r/min	64%
SB8×6-12	270m ³ /h	28m	45KW	1450r/min	64%
SB6×5-14	200m ³ /h	40m	55KW	1450r/min	62%
SB6×5-13	180m ³ /h	35m	45KW	1450r/min	60%
SB6×5-12	160m ³ /h	30m	37KW	1450r/min	62%
SB5×4-14	120m ³ /h	40m	37KW	1450r/min	56%
SB5×4-13	90m ³ /h	40m	30KW	1450r/min	56%
SB4×3-13	60 m ³ /h	27m	15 KW	1450r/min	51%
SB4×3-12	60m ³ /h	20m	11KW	1450r/min	54%
SB4×3-11	40m ³ /h	20m	7.5KW	1450r/min	49%
SB3×2-13	32.5 m ³ /h	31m	11 KW	1450r/min	39%
SB3×2-11	30m ³ /h	23m	7.5 KW	1450r/min	42%

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3) Installation dimensions



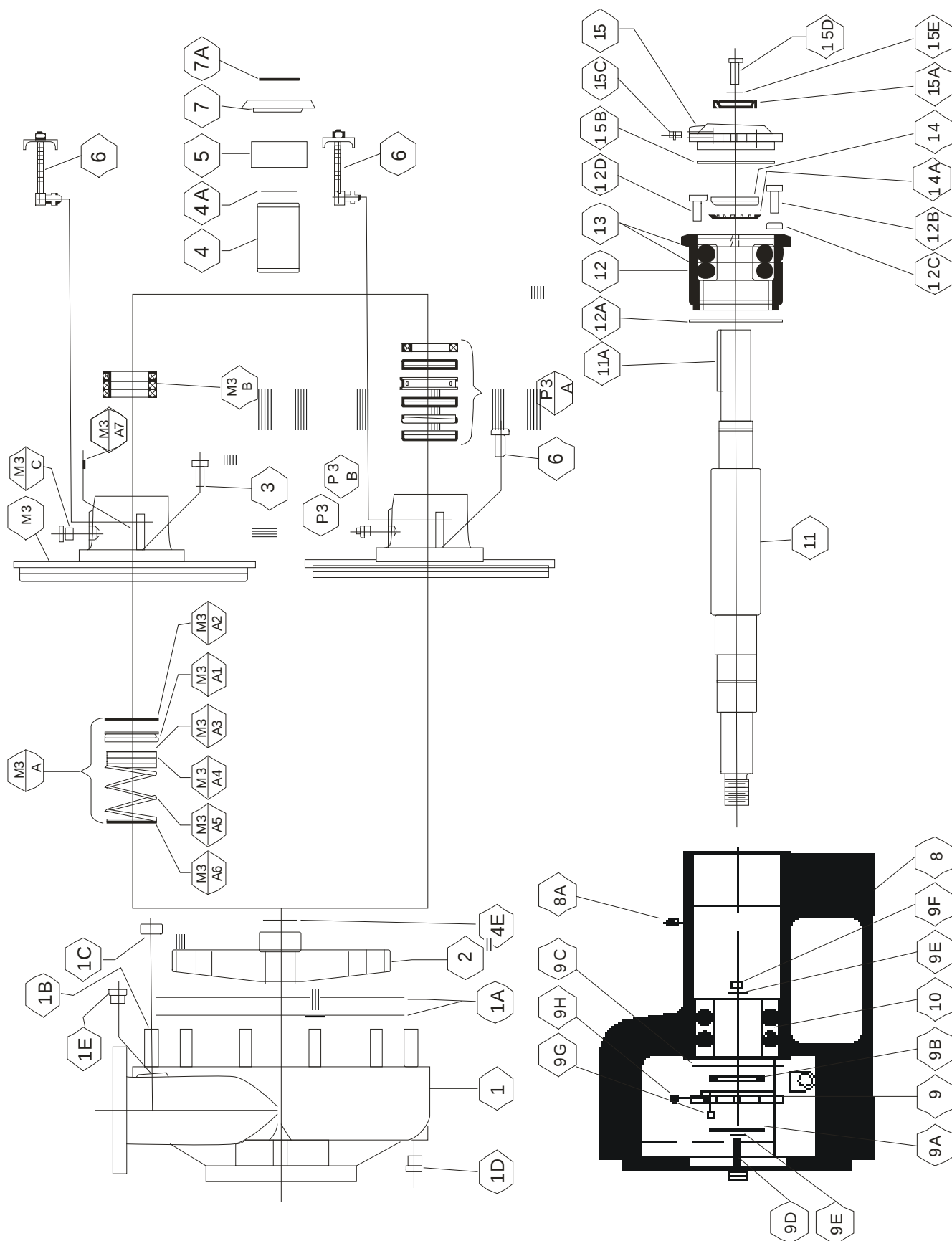
●Installation dimensions table1.

Pump model	Necessary motor		Contour Dimensions						Main Installation Dimensions						
	Model	KW	L	H	B	L2	h ₁	h ₂	a	A	L1	B1	B2	z	n-d
SB8×6-14	Y280S—4	75	1968	776	300	1458	356	227	173	550	940	457	500	214.3	4—24
SB8×6-13	Y250M—4	55	1893	744	300	1389	356	227	173	431	1085	406	450	214.3	4—24
SB8×6-12	Y225M—4	45	1850	721	250	1320	356	227	173	398	1085	356	400	214.3	4—24
SB8×6-14I	Y250M—4	55	1893	744	300	1389	356	227	173	431	1085	406	450	214.3	4—24
SB8×6-13I	Y225M—4	45	1850	721	250	1320	356	227	173	398	1085	356	400	214.3	4—24
SB8×6-12I	Y200L—4	30	1763	721	250	1266	356	227	173	445	1020	318	360	214.3	4—24
SB6×5-14	Y250M—4	55	1875	667	300	1389	280	227	146	404	1085	406	450	152.4	4—24
SB6×5-13	Y225M—4	45	1820	644	250	1320	280	227	146	371	1085	356	400	152.4	4—24
SB6×5-12	Y200L—4	30	1735	644	250	1266	280	227	146	418	1020	318	360	152.4	4—24
SB6×5-11	Y200L—4	30	1731	644	250	1266	279	227	146	415	1020	318	360	152.4	4—24
SB6×5-9	Y160L—4	15	1621	644	220	1181	279	227	146	428	800	284	330	152.4	4—24
SB5×4-14	Y225S—4	37	1758	685	250	1295	320	227	125	334	1085	356	400	191	4—24
SB5×4-13	Y200L—4	30	1698	685	250	1266	320	227	125	381	1020	318	360	191	4—24
SB5×4-12	Y180L—4	22	1642	685	220	1225	320	227	125	445	800	279	325	191	4—24
SB5×4-11	Y180M—4	18.5	1613	644	220	1187	279	227	125	436	800	279	325	160	4—24
SB5×4-10	Y160L—4	15	1578	646	220	1181	279	227	125	385	800	284	330	160	4—24
SB5×4-9	Y160L—4	15	1578	646	220	1181	279	227	125	385	800	284	330	160	4—24
SB4×3-13	Y180M—4	18.5	1501	625	220	1187	260	227	108	413	800	279	325	171.5	4—24
SB4×3-12	Y160L—4	15	1465	627	220	1181	260	227	108	362	800	284	330	171.5	4—24
SB4×3-11	Y160M—4	11	1426	627	220	1137	260	227	108	362	800	284	330	171.5	4—24
SB3×2-13	Y160M—4	11	1411	627	220	1137	260	227	95	347	800	284	330	177.8	4—24
SB3×2-12	Y132M—4	7.5	1306	627	200	1055	260	227	95	347	800	270	314	177.8	4—24
SB3×2-11	Y132S—4	5.5	1266	627	200	1017	260	227	95	347	800	270	314	177.8	4—24
SB2×1 1/2-8	Y112M4	4	1191	627	200	940	260	227	90	340	800	270	314	/	4—24

4) Pump Body Pictures



5) Pump Components



● Components List

	Item	Qty.	Description	Part number
Housing	1	1	Housing	
	1A	2	Gasket, housing	720700
	1B	12	Stud, housing	B16092121000048
	1C	12	Nut, housing	N19052121000000
	2	1	Impeller	
	2A	1	Seal, impeller	
	3	1	Bolt, stuffing box	B03F52081300020
Mechanical seal arrangement	M3	1	Stuffing box-mechanical seal	721350
	M3-A	1	Mechanical seal assembly	721540
	M3-A-1		Stationary seat	Information only
	M3-A-2		O-Ring stationary seat	
	M3-A-3		Rotating seal ring	
	M3-A-4		Cage assembly	
	M3-A-5		Spring	
	M3-A-6		Spring retainer	
	M3-A-7		Spring pin	
	M3-B	1Set	Back-Up packing	720441
	M3-C	1	Plug, clean-out	721651
Packed arrangement	P3	1	Stuffing box-packed	721340
	P3A	1	Packing-king	720470
			Packing-graphite	720440
			Packing-Teflon	720500
	P3B	1	Grease fitting -packing	0399D
Shaft sleeve assembly	4	1	416SSC shaft sleeve,416SSC	721580
	4A	1	Seal, shaft sleeve	721490
	4E	1	Seal, impeller	721480
	5	1	Packing gland	720590
	6	2	Gland bolt assembly	720600
	7	1	Deflector	721040
	7A	1	O-Ring, deflector	721500
	8	1	Pedestal	720175
	8A	1	Plug, pedestal	721651
Inboard bearing cover assembly	9	1	Cover, inboard bearing	720780
	9A	1	Seal, inboard bearing exclusion	720370
	9B	1	Seal, inboard bearing cover	720380
	9C	1	Gasket, inboard bearing cover	720670
	9D	2	Bolt, inboard bearing cover	B03F52061600044
	9E	4	Flat washer, inboard bearing cover	W01052140605000
	9F	2	Nut, inboard bearing cover	N19052061600000

	9G	1	Grease fitting, inboard bearing	720781
	9H	1	Grease fitting, seal	720782
	10	1	Bearing inboard	720300
	11	1	Shaft	721227
	11A	1	Key, shaft	721270
Outboard Bearing housing assembly	12	1	Housing, outboard bearing	720800
	12A	1	Seal, outboard bearing housing	721510
	12B	2	Bolt, adjustment, outboard brng. HSG.	B03F52081300024
	12C	2	Jam nut	N12052081300000
	12D	2	Bolt, attachment, outboard brng. HSG.	B03F52081300020
	13	2	Bearing, outboard	720320
	14	1	Nut, bearing	721560
	14A	1	Lock washer, bearing nut	721550
Outboard Bearing cover assembly	15	1	Cover, outboard bearing	720790
	15A	1	Seal, shaft, outboard bearing cover	720390
	15B	1	Seal, outboard bearing cover	721520
	15C	1	Grease fitting, outboard bearing	721671
	15D	2	Bolt, attachment, outboard bearing. cover	B03F52081300020
	15E	2	Lock washer, outboard bearing cover	

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