

FSB

FSB Fluoroplastic Alloy Centrifugal Pump



MAPCATO
Responding to Various Needs by Advanced Technology

GENERAL

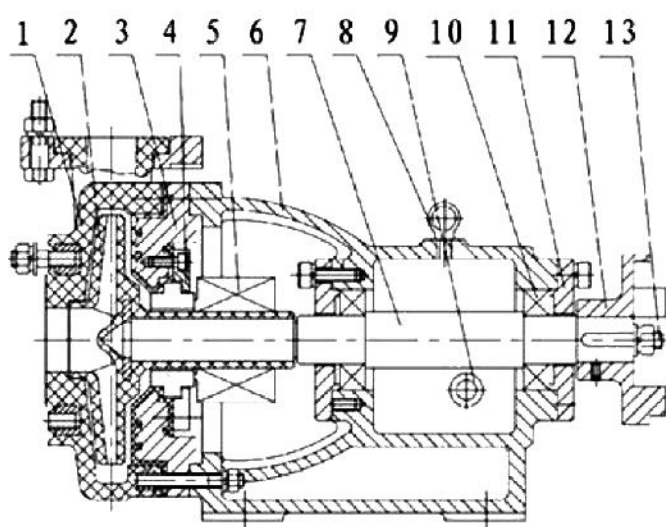
Fluoroplastic alloy is the best corrosion resistant material in the world. Our FSB and FSB-D series of pump with this material are characterized by extra strong resistance to corrosion. high mechanical strength, non-aging and no decomposition of toxin, which is applicable for transportation of acid and alkali solutions with any concentrations, oxidizer and other corrosive media. Therefore, it is widely applied in such industries as chemical engineering, petroleum, pharmacy, pesticide, smelting, dyestuff, papermaking and electroplating.

Structure specification

FSB fluoroplastic alloy pump consists of body, impeller, back bonnet, scaling clement, bracket, pump shaft, bearing, coupler, fastening bolt, nut and base plate.

1. Body: steel flange ring with each embedded in connecting parts on both right and left sides, made of moulded plastic alloy.
2. Metal materials embedded in right side of bonnet, made of moulded plastic alloy.
3. Impeller adopting coupling shaft, with precision processing of high-grade steel and coating of plastic alloy after die pressing for metal shaft, integrating impeller and metal shaft securely, thus contributing to the medium soaking part made of plastic alloy.
4. Mechanical seal: adopting WB2 and ST adjustable end face seal technology without cooling water, made from carborundium, high-purity alumina ceramics, 4F packing, graphite, etc.

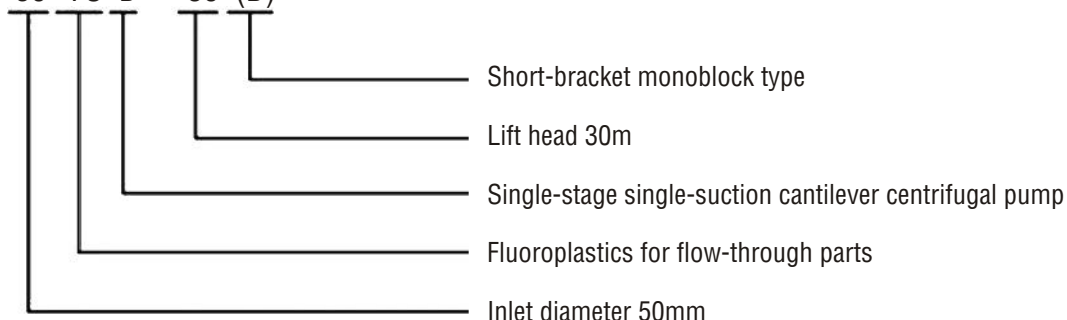
Structural Diagram of FSB Pump



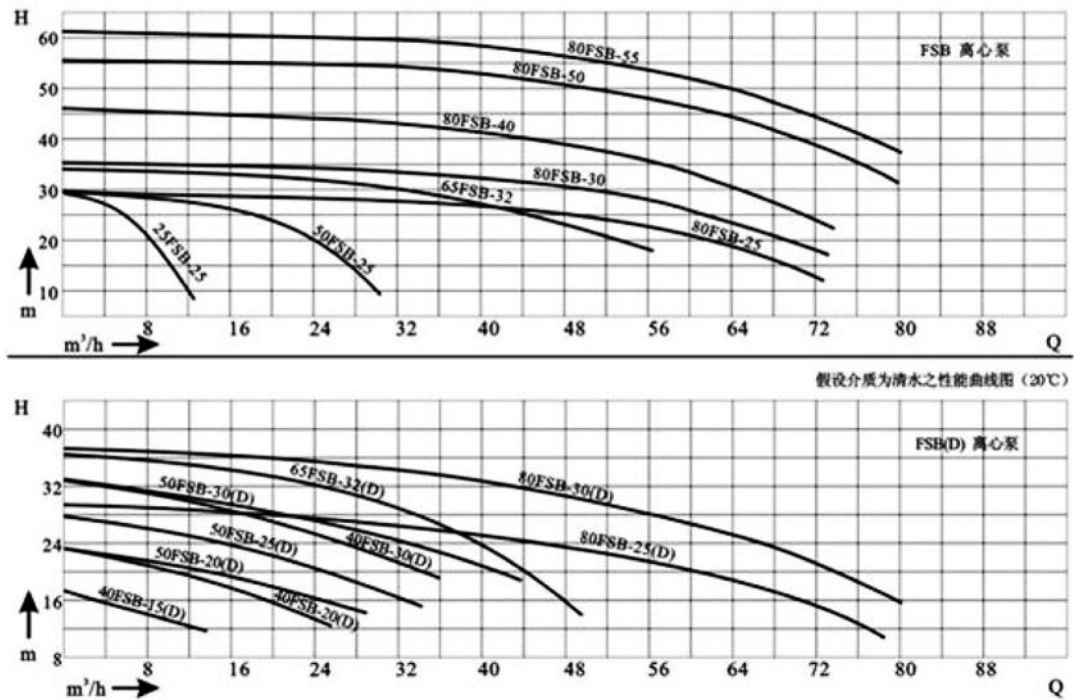
1	Body
2	Impeller
3	Bonnet
4	Gland
5	Scaling clement
6	Bracket
7	Pump shaft
8	Lifting eye bolt
9	Oil immersion lens
10	Bearing cap
11	Front bearing cap
11	Coupler
13	Fastening bolt

Type designation

Example : 50 FS B - 30 (D)



Performance curve diagram



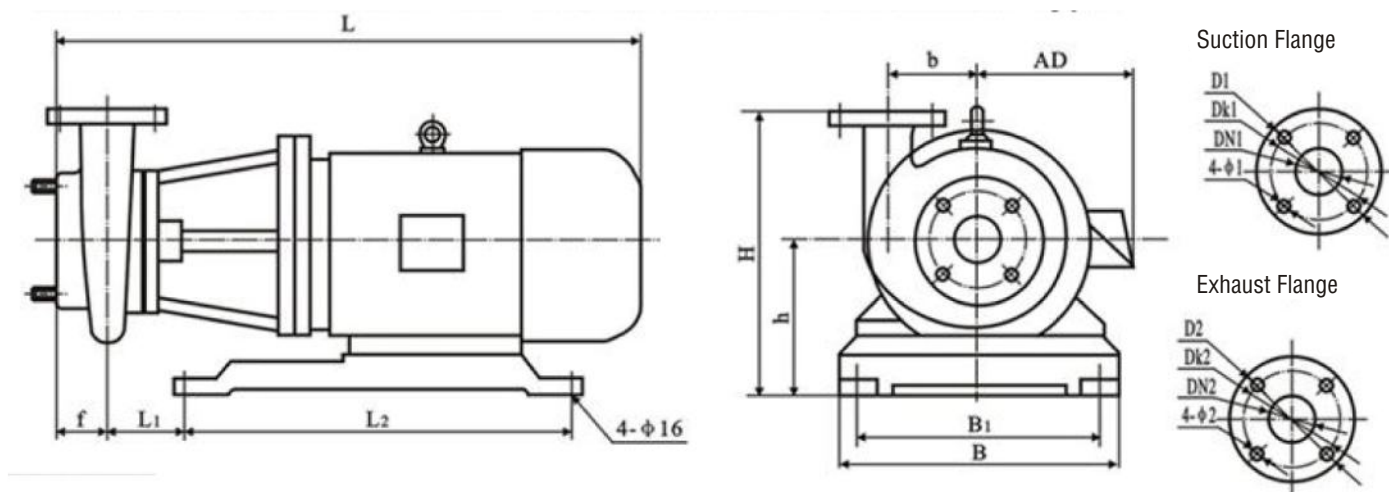
Types and parameters

	Model	Dischwge	Lift(m)	Shaft Power	Motor power (KW)	Rotational Speed(r/min)	Cavitation remain (NPSH)r(m)	Efficiency (%)
FSB Type	25FSB -18	3.6	18	0.95	1.5	2900	3	55
	25FSB -20	3.6	20	0.95	1.5	2900	3	55
	25FSB -25	3.6	25	0.95	1.5	2900	3	55
	40FSB -20	10	20	1.4	3	2900	3	45
	40FSB -30	10	30	1.6	3	2900	3	42
	50FSB -25	12.5	25	1.8	3	2900	3	55
	50FSB -30	15	30	1.9	3	2900	3	46
	65FSB -32	25	32	4.7	5.5	2900	3	65
	80FSB -20	50	20	4.6	5.5	2900	3	45
	80FSB -25	50	25	5.7	7.5	2900	3	67
	80FSB -30	50	30	6.9	7.5	2900	3.5	68
	80FSB -40	45	40	10	11	2900	3.5	48
	80FSB -50	50	50	12	15	2900	3.5	57
	80FSB -55	50	55	13.5	18.5	2900	4	50
	100FSB -32	100	32	12	15	2900	3.5	70
FSB(D) Type	40FSB -15(D)	5	15	0.4	2.2	2900	3	40
	40FSB -20(D)	10	20	1.2	3	2900	3	42
	40FSB -30(D)	10	30	1.2	3	2900	3	52
	50FSB -20(D)	12.5	20	1.5	3	2900	3.5	55
	50FSB -25(D)	12.5	25	1.8	3	2900	3.5	55
	50FSB -30(D)	15	30	1.9	3	2900	3.5	54
	65FSB -32(D)	25	32	3.6	5.5	2900	3.5	65
	80FSB -25(D)	42	25	3.8	7.5	2900	3.5	67
	80FSB -30(D)	50	30	6.8	7.5	2900	3.5	68

1. The general mechanical seal is applicable for clean media without suspending hard grains (please inform us in the order contract first in case of grains), New pipelines and storage tanks should be rinsed out carefully to prohibit impurities from entering the seal end face and invaliding the seal.
2. It should be noted to wash often for media vulnerable to crystallization. After stopping, rinse out the crystal on the seal end face before restarting.
3. It should be careful to disassemble the mechanical seal. Don't knock with ironware and the like to avoid damages to the sealing surface of rotary and stationary rings.
4. if the fouling on the mechanical seal is so hard that the seal can't be disassembled after long-time service, it's not allowed to knock forcefully but try to remove the fouling before disassembly to ensure the intact original piece.
5. Before installing the mechanical seal, check whether the sealing surface of both rotary and stationary rings are damaged to make sure there's no slight scuffing, edge damages and defects. To install it. wipe up the end face of both rotary and stationary rings carefully with clean soft cloth or cotton yarn and then coat it with clean grease or machine oil.
6. During assembly, the balance degree of stationary ring and back bonnet should be noted to remove the deflection. When fast ening screws, tighten diagonally to avoid the deflection.
7. Adjust the spring compression force accurately to make it neither too tight nor too loose. To install pump, first rotate manually to feel a certain compression force acted by the seal and also an easy and flexible rotation; if not, adjust the spring compression force to ensure the sealing effect.

FSB-D

Installation Scheme of FSB-D Short Bracket Monoblock Type

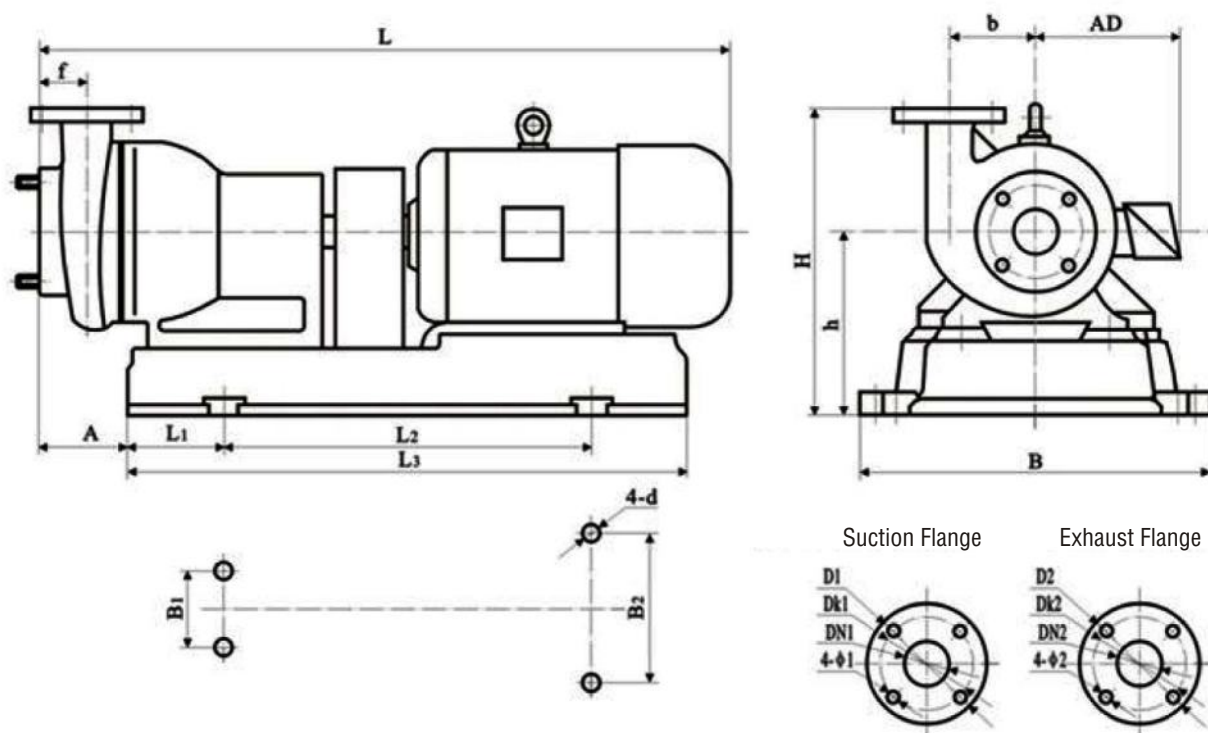


FSB-D

Installation Dimension Table of FSB-D Short Bracket Monoblock Type

Model	f	L.1	L2	L	B1	B	h	H	b	AD	Suction flange				Exhaust flange			
											DN1	Dk1	D1	4-φ1	DN2	Dk2	D2	4-φ2
40FSB-15(D)	40	150	310	500	170	220	140	260	85	180	40	100	130	4-M10	32	90	112	4-φ11.5
40FSB-20(D)	40	150	310	500	170	220	140	260	85	180	40	100	130	4-M10	32	90	112	4-φ11.5
40FSB-30(D)	40	150	310	500	170	220	140	260	85	180	40	100	130	4-M10	32	90	112	4-φ11.5
50FSB-20(D)	45	150	310	480	170	220	140	260	82	180	50	100	130	4-M10	32	90	112	4-φ11.5
50FSB-25(D)	45	150	310	480	170	220	140	260	82	180	50	100	130	4-M10	32	90	112	4-φ11.5
SOFSB-30(D)	58	150	310	480	170	220	140	260	82	180	50	100	130	4-M10	32	90	112	4-φ11.5
65FSB-32(D)	60	140	330	660	240	290	177	327	95	210	65	150	185	4-M12	50	130	160	4-φ13
80FSB-250:9	60	140	330	660	240	290	177	327	95	210	80	150	185	4-M12	65	130	160	4-φ13
80FSB-30(D)	60	140	330	660	240	290	177	327	95	210	80	150	185	4-M12	65	130	160	4-φ13

Installation Scheme of FSB



Installation Dimension Table of FSB

Model	A	L1	L2	L3	L	f	B1	B2	B	h	H	b	AD	4-d	Suction flange				Exhaust flange			
															DN 1	Dk1	D1	4-φ1	DN2	Dk2	D2	4-φ2
25FSB-18	80	75	440	590	700	40	240	240	280	162	257	77	150	4-φ16	25	85	120	4-M10	25	75	100	4-φ11.5
25FSB-20	80	75	440	590	700	40	240	280	280	162	257	77	150	4-φ16	25	85	120	4-M10	25	75	100	4-φ11.5
25FSB-25	80	75	440	590	700	40	240	240	280	162	257	77	150	4-φ16	25	85	120	4-M10	25	75	100	4-φ11.5
40FS1320	107	80	455	615	786	58	250	285	335	162	287	82	180	4-φ16	40	100	130	4-M10	32	90	112	4-φ11.5
40FSB-30	107	80	455	615	786	58	250	285	335	162	287	82	180	4-φ16	40	100	130	4-N110	32	90	112	4-φ11.5
SOFSB-25	107	80	455	615	786	58	250	285	335	162	287	82	180	4-φ16	50	100	130	4-M10	32	90	112	4-φ11.5
50FSB-30	107	80	455	615	786	58	250	285	335	162	287	82	130	4-φ16	50	100	130	4-M10	32	90	112	4-φ11.5
65FSB-32	142	130	480	725	940	74	250	330	370	197	347	95	210	4-φ16	65	150	185	4-M12	50	130	160	4-φ13
80FSB-20	142	130	480	725	980	74	250	330	370	197	347	95	210	4-φ16	80	150	185	4-M12	65	110	160	4-φ13
80FSB-25	142	130	480	725	980	74	250	330	370	197	347	95	210	4-φ16	80	150	185	4-M12	65	130	160	4-φ13
80FSB-30	142	125	480	710	980	74	250	330	365	197	347	95	210	4-φ16	80	150	185	4-M12	65	130	160	4-φ13
80FSB-40	142	124	660	920	1200	85	250	390	430	230	410	118	265	4-φ16	80	150	190	4-M16	50	125	170	4-φ17.5
80FSB-50	142	124	660	920	1210	85	300	390	430	230	410	118	265	4-φ16	80	150	190	4-M16	50	125	170	4-φ17.5
80FSB-55	142	124	660	920	1255	85	300	390	430	230	410	118	265	4-φ16	80	150	190	4-M16	50	125	170	4-φ17.5
100FSB32	142	124	660	920	1253	100	300	390	430	280	500	118	265	4-φ24	100	150	220	4-M16	80	165	200	4-φ17.5