



# FSB Series

Fluoroplastics Anticorrosion Pump

## I. Main Performance and Purpose

This series of pump is a kind of single-stage and single-suction cantilevered centrifugal pump. Structural features: the flow passage components are made of fluoroplastics, the lining materials of pump body cover such varieties as Fluorinated ethylene propylene (FEP) and Polyvinylidene fluoride (PVDF), which can be selected by the user according to the requirement.

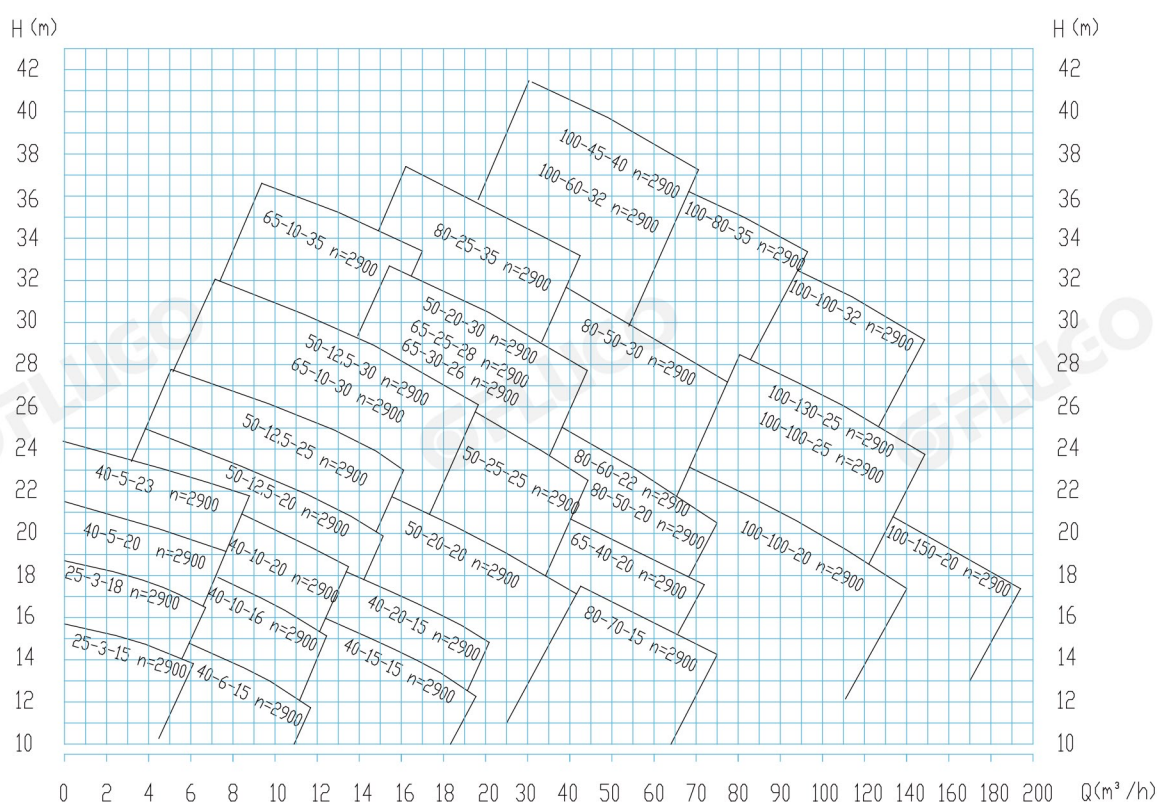
This variety of pump is mainly applicable for conveying such types of clear solution media as acid-base or solvent. After the special sealing is employed, the corrosive media with inclusion of a small amount of solid can also be conveyed. The mechanical sealing with such types as WB2, 152 and 169 is employed by this series of pump, with 20~100℃ for application temperature scope.

## II. Type Selection Prompting and Other Descriptions

I) When the user selects this kind of pump, the detailed working condition should be provided for this factory, such as: chemical property of conveying medium, solid content of medium, viscosity and temperature of medium as well as anti-explosion requirement.

1. Acid-resistance type: applicable for conveying the mixture between various strong acid or acid and solvent.
2. Alkali-resistance type: applicable for conveying the mixture between alkaline clear liquid or alkaline liquor and solvent.
3. Impurity-resistance type: applicable for conveying the acid or alkali liquid with inclusion of a small amount of solid-phase materials. If the solid content is great, UHB-ZK series of anticorrosion slurry pump can be selected, or the type selection is performed through negotiation with this factory.
4. Anti-explosion type: applicable for conveying the inflammable and explosive liquid and being provided with the anti-explosion electric motor.

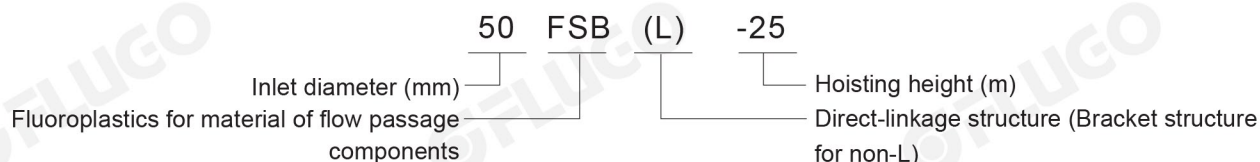
**Spectrogram** ■ This table is only used for preliminary type selection.



II) When this series of pump is under the special working condition for user, the pump body and vane wheel are also made of UHMWPE, meanwhile, the price of product changes with variation of materials.

III) FSB type of pump is of bracket structure, with characteristics of convenient maintenance on. FSB(L) type of pump is of direct-linkage structure, with characteristics of portableness, energy saving and economy. The user can select type according to the requirement of this organization.

## III. Model meaning and description



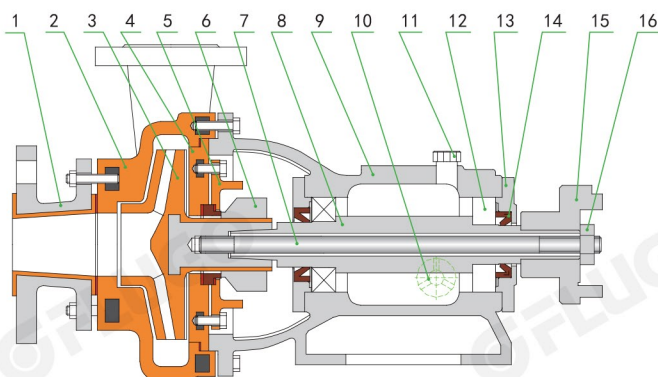
## IV. Performance Parameters

No	Model	Flow (m³/h)	Hoisting height (m)	Speed (r/min)	Power (kW)	Inlet x outlet (mm)	Allowable suction height (m)	Efficiency (%)
1	25FSB(L)-3-15	3	15	2900	0.75	25x20	5	35
2	25FSB(L)-6-15	6	15		1.1		5	35
3	40FSB(L)-10-15	10	15		1.5	40x32	5	46
4	40FSB(L)-10-20	10	20		2.2		5	46
5	50FSB(L)-20-15	20	15		3	50x32	5	51
6	50FSB(L)-20-25	20	25		4		5	48
7	65FSB(L)-25-20	25	20		4	65x50	4.5	55
8	65FSB(L)-35-25	35	25		5.5		4.5	55
9	80FSB(L)-50-20	50	20		5.5	80x65	4	68
10	80FSB(L)-50-25	50	25		7.5		4.5	68
11	100FSB(L)-100-20	100	20		15	100X80	4	68
12	100FSB(L)-100-32	100	32		22		4	68



## V. Structural Diagram for Pump

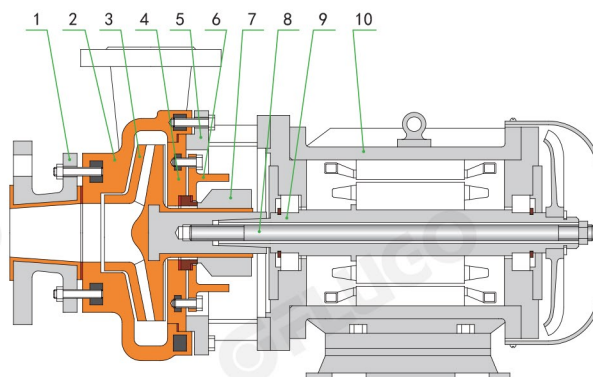
### I) Structural Diagram of FSB series



Note: 25, 40 and 50 types of pump are free of shafting screw ( except for lift with 50 in height)

1. Connecting pipe	6. Mechanical seal	11. Oil plug
2. Case	7. Shafting screw	12. Bearing
3. Vane	8. Main shaft	13. Bearing cover
4. Rear cover	9. Bearing seat	14. Bearing oil seal
5. Stationary ring gland	10. Oil immersion lens	15. Coupling

### II) Structural Diagram of FSB(L) series

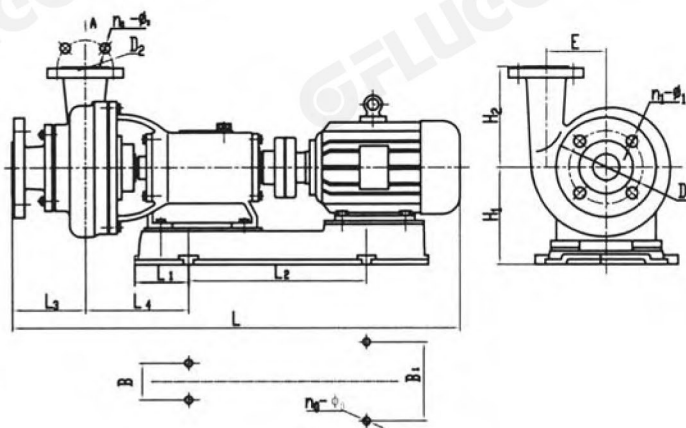


Note: 25, 40 and 50 types of pump are free of shafting screw ( except for lift with 50 in height)

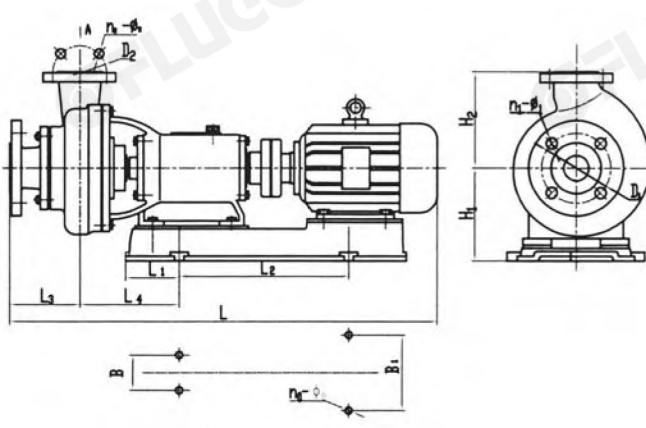
1. Connecting pipe	6. Stationary ring gland
2. Case	7. Mechanical seal
3. Vane	8. Shafting screw
4. Rear cover	9. Tightened screw
5. Bracket	10. Electric motor

## VI. Overall and Installation Dimensions

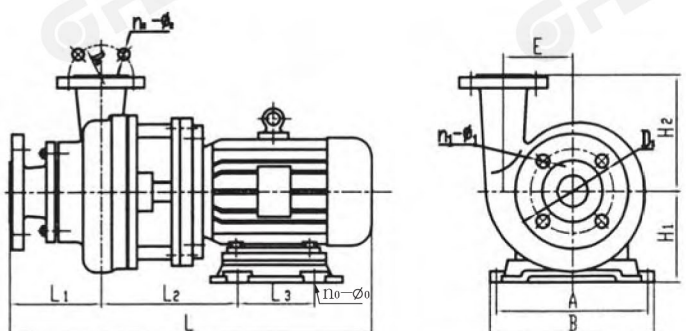
### I) Overall of 25FSB~50FSB



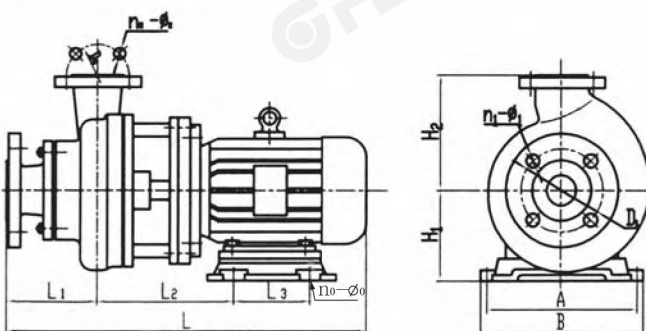
### II) Overall of 50FSB(H)~100FSB



### I) Overall of 25FSB(L)~50FSB(L)



### II) Overall of 50FSB(L)(H)~100FSB(L)



## I) Installation Dimensions of FSB series

No.	Model	Power (kw)	H1	H2	E	L1	L2	L3	L4	L	B	B1	η1-φ1	η2-φ2	η0-φ0	D1	D2
1	25FSB	0.75-1.1kw	165	120	60	90	380	85	130	760	230	230	4-φ14	4-φ14	4-φ15	85	85
2	25FSB	2.2kw	165	120	60	90	380	85	130	810	230	230	4-φ14	4-φ14	4-φ15	85	85
3	40FSB	2.2kw	165	140	75	90	380	125	140	845	230	230	4-φ14	4-φ14	4-φ15	110	100
4	40FSB	3kw	165	140	75	110	420	125	160	900	230	270	4-φ14	4-φ14	4-φ15	110	100
5	50FSB	3kw	165	125	82	110	420	120	170	900	230	270	4-φ14	4-φ14	4-φ15	125	100
6	50FSB	4kw	165	125	82	110	420	120	170	920	230	310	4-φ14	4-φ14	4-φ15	125	100
7	50FSB	4kw	162	160	0	110	420	135	165	880	230	310	4-φ14	4-φ14	4-φ15	125	110
8	50FSB	5.5-7.5kw	182	160	0	110	420	135	165	945	230	350	4-φ14	4-φ14	4-φ15	125	110
9	65FSB	7.5kw	187	165	0	150	450	130	205	1060	275	340	4-φ18	4-φ18	4-φ18	145	125
10	65FSB	11-15kw	220	165	0	150	560	130	200	1240	275	370	4-φ18	4-φ18	4-φ18	145	125
11	80FSB	5.5-7.5kw	187	165	0	150	450	145	205	1065	275	340	4-φ18	4-φ18	4-φ18	160	145
12	80FSB	11-15kw	220	165	0	150	560	145	200	1195	275	370	4-φ18	4-φ18	4-φ18	160	145
13	100FSB	11-15kw	225	220	0	165	600	205	220	1260	310	430	4-φ18	4-φ18	4-φ20	180	160
14	100FSB	18.5kw	225	220	0	165	600	205	220	1305	310	430	4-φ18	4-φ18	4-φ21	180	160

## II) Installation Dimensions of FSB(L) series

No.	Model	Power (kw)	A	B	H1	H2	E	L1	L2	L3	L	η1-φ1	η2-φ2	η0-φ0	D1	D2
1	25FSB(L)	0.75-1.1kw	220	250	125	120	60	85	138	180	510	4-φ14	4-φ14	4-φ15	85	85
2	40FSB(L)	2.2kw	220	250	135	140	75	125	165	180	590	4-φ14	4-φ14	4-φ15	110	100
3	40FSB(L)	3kw	220	250	135	140	75	125	178	180	590	4-φ14	4-φ14	4-φ15	110	100
4	50FSB(L)	3kw	300	345	145	125	83	120	155	220	615	4-φ14	4-φ14	4-φ15	125	100
5	50FSB(L)	4kw	300	345	157	125	83	120	155	220	630	4-φ14	4-φ14	4-φ15	125	100
6	50FSB(L)	4kw	300	345	157	160	0	135	128	220	620	4-φ14	4-φ14	4-φ15	125	110
7	50FSB(L)	5.5-7.5kw	330	380	177	160	0	135	230	180	685	4-φ14	4-φ14	4-φ15	125	110
8	65FSB(L)	5.5-7.5kw	330	380	177	165	0	130	165	180	685	4-φ18	4-φ18	4-φ18	145	125
9	65FSB(L)	11-15kw	375	425	210	165	0	130	140	365	835	4-φ18	4-φ18	4-φ18	145	125
10	80FSB(L)	5.5-7.5kw	330	380	177	165	0	145	178	180	765	4-φ18	4-φ18	4-φ18	160	145
11	80FSB(L)	11-15kw	375	425	210	165	0	145	155	365	865	4-φ18	4-φ18	4-φ18	160	145
12	100FSB(L)	11-15kw	375	425	210	220	0	205	131	365	905	4-φ18	4-φ18	4-φ20	180	160
13	100FSB(L)	18.5kw	420	470	235	235	0	205	115	415	980	4-φ18	4-φ18	4-φ20	180	160



Authorized Distributor

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