VAST FORTUNE

Product Manual

VHF-Fluoroplastic centrifugal pump

——Professional quality,international standards

Nanjing VastFortune Import and Export Co., Ltd.

Warm reminder

Dear client:

In order to protect your safety and interests, before you choose to buythe fluoroplastic centrifugal pump of Nanjing VastFortune Import and Export Co., Ltd. , or have purchased and plan to install the open pump , please read the product manual carefully. If you do not follow the guidance of the manual to regulate the operation, resulting in adverse consequences and losses, our company is not responsible.

If you have any doubts about any of the contents of the manual , please submit a written objection to our company within seven working days after obtaining this manual, and we will provide you with consulting services in time. Otherwise , you will accept, understand and accept the full contents of this manual by default.

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2 . Please be sure to keep all the information related to the product properly.

Blessing

Nanjing VastFortune Import and Export Co., Ltd.

Summary

According to the international standard design, the over flowing parts use fluorine plastics, the load bearing part of t he pump is metal. Equipped with external corrugatedpipe mechanical seal, grinding material: alumina Vs tetrafluorine, silicon carbide Vs tetrafluorine, cemented carbide vs cemen ted carbide, the user can choose the abrasive surface.

Use

Suitable for conveying strong corrosive liquid. For example: hydrochloric acid, nitric acid, organic solvents.

Model meaning

VHF 80 - 65 - 160

VH	Chemical centrifugal pump
F	Fluoroplastics material
80	Inlet:80mm
65	outlet:65mm
160	Impeller diameter: 160mm

Installation height calculation

In selecting the pump in our company, the installa - tion height shouldbe considered. The vertical distance between the suction level and the pump shaft shouldbe less than the installation height specifiedbythe pump. The following formula is used to calculate:

Hsz≤Ha-Hv-△Hs- (NPSH)r

Hsz—Fixed installation height(m)

Ha—Atmospheric pressulre head on site

Hv— vaporization pressure head ofliquid temperature(m)

△Hs— suction pipe loss head(m)

NPSH— Cavitation allowance specified on the performance parameter table(m)

VHF Fluoroplastic centrifugel

pump shaft power

pump power refers to the input power ofthe Pump, is N.

The output power is the effective power transferred by the pump to the liquid as it passes through the pump. is NE.

Ne= p x gx Qx H

Ne=shaft power(w)

p =liquiddensity(m3/kg)

g=Gravityacceleration(m/s)

Q=Flow(m3/h)

H=Head(m)

Input power and output power are not equal, be - cause there is a loss ofpower in the pump, the size of the loss is commonlyused to measure the efficiency of the pump. Efficiency is expressedby n . The efficiency ofpump is the ratio ofoutput power to input power.

$$\eta = \frac{Ne}{N}$$

part disassembly drawing

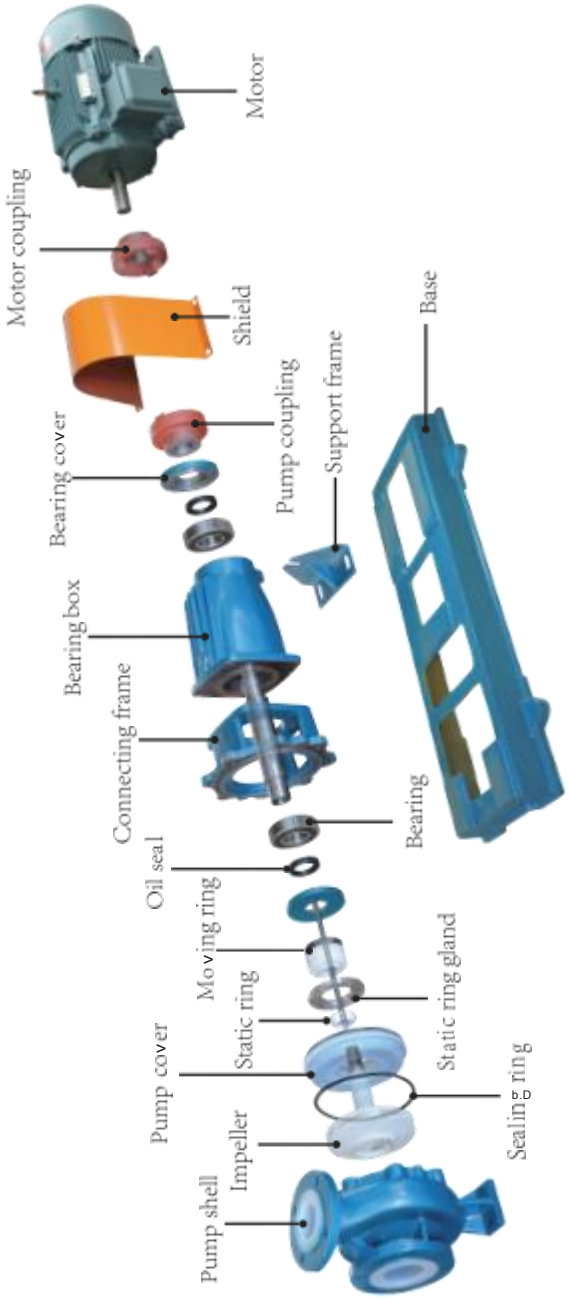


Figure I
Calibre≤125mm

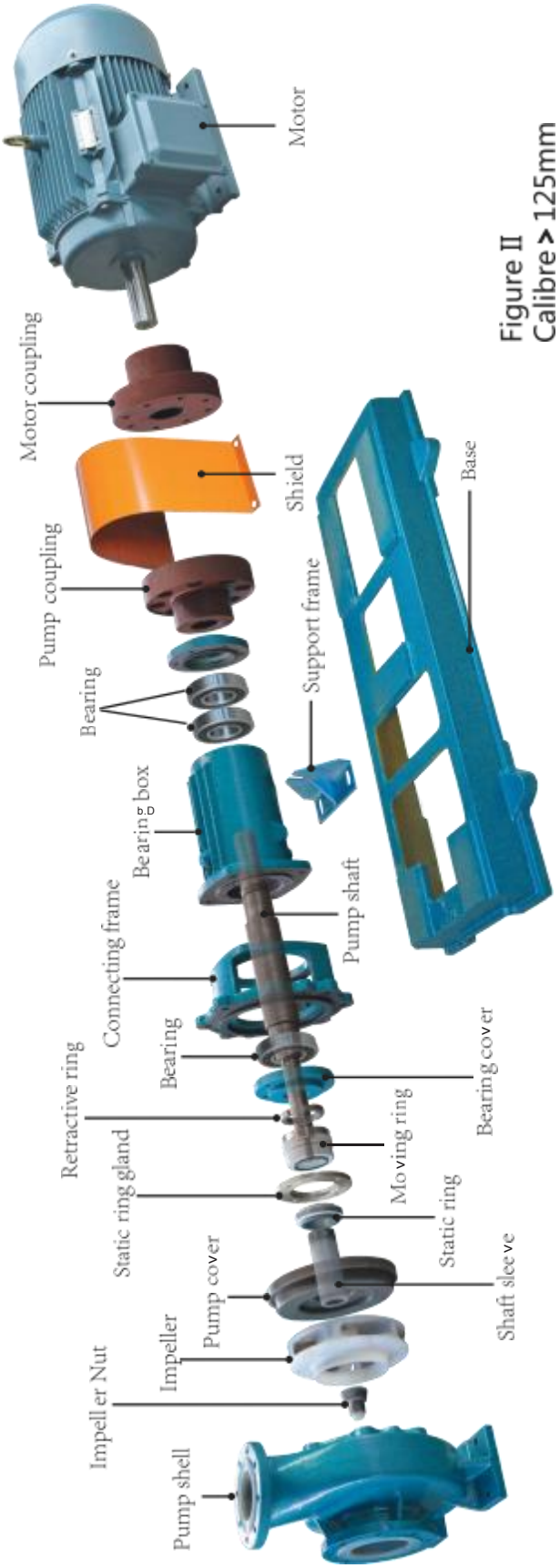


Figure II
Calibre > 125mm

Material diagram

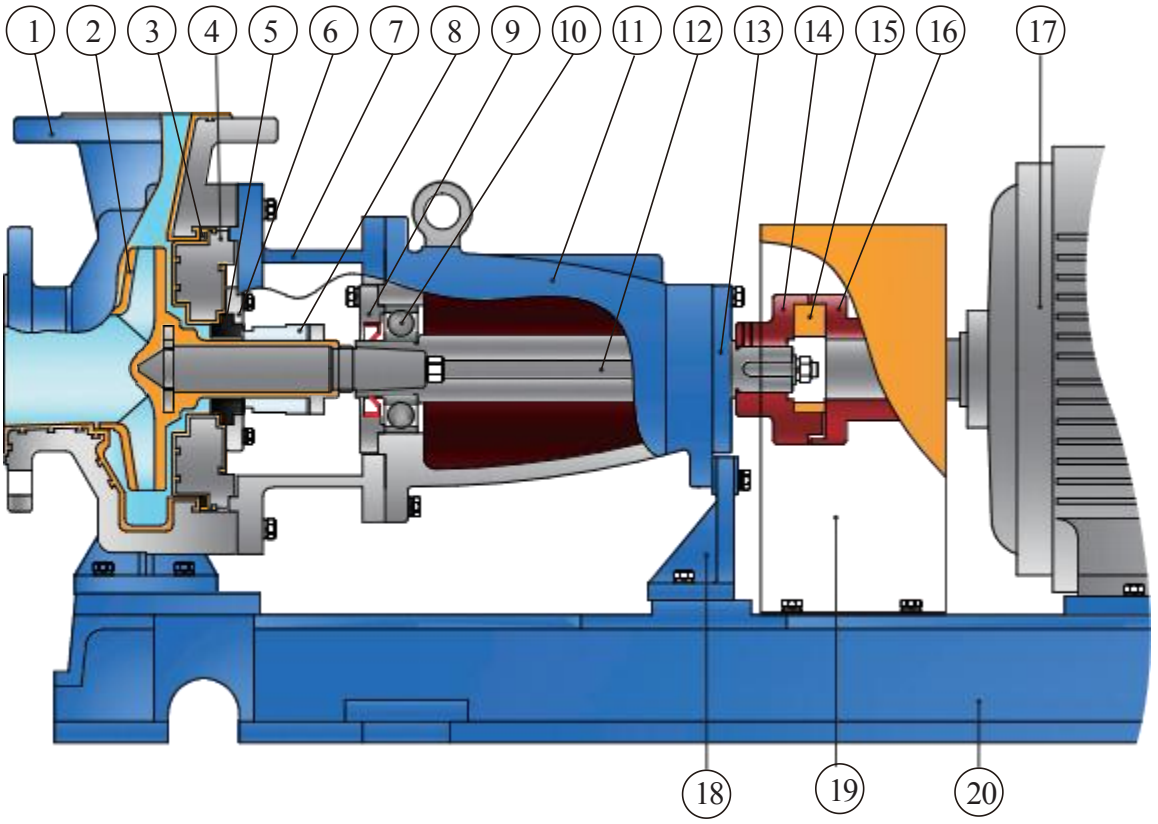


Figure II Calibre <125mm

NO.	Name	Material	NO.	Name	Material
1	Pump shell	HT200/FEP	11	Bearing box	HT200
2	Impelier	FEP/45-Steel	12	Pamp shan	45#Steel
3	Sealing ring	Flucrine rubber	13	Bearing cover	HT200
4	Pump cover	HT200/FEP	14	Pump coupling	HT200
5	Machine seal static ring	SIC	15	Elastic block	Polyurethane
6	Statie ring gland	304	16	Motor couapling	HT200
7	Connecting frame	HT200	17	Motor	B3-2
8	Mechanical seal	SIC、Carbon fiber	18	Support frame	HT200
9	Bearing cover	HT200	19	Shield	A3
10	Bearing	2RS-Grease lubricating type	20	Base	HT200

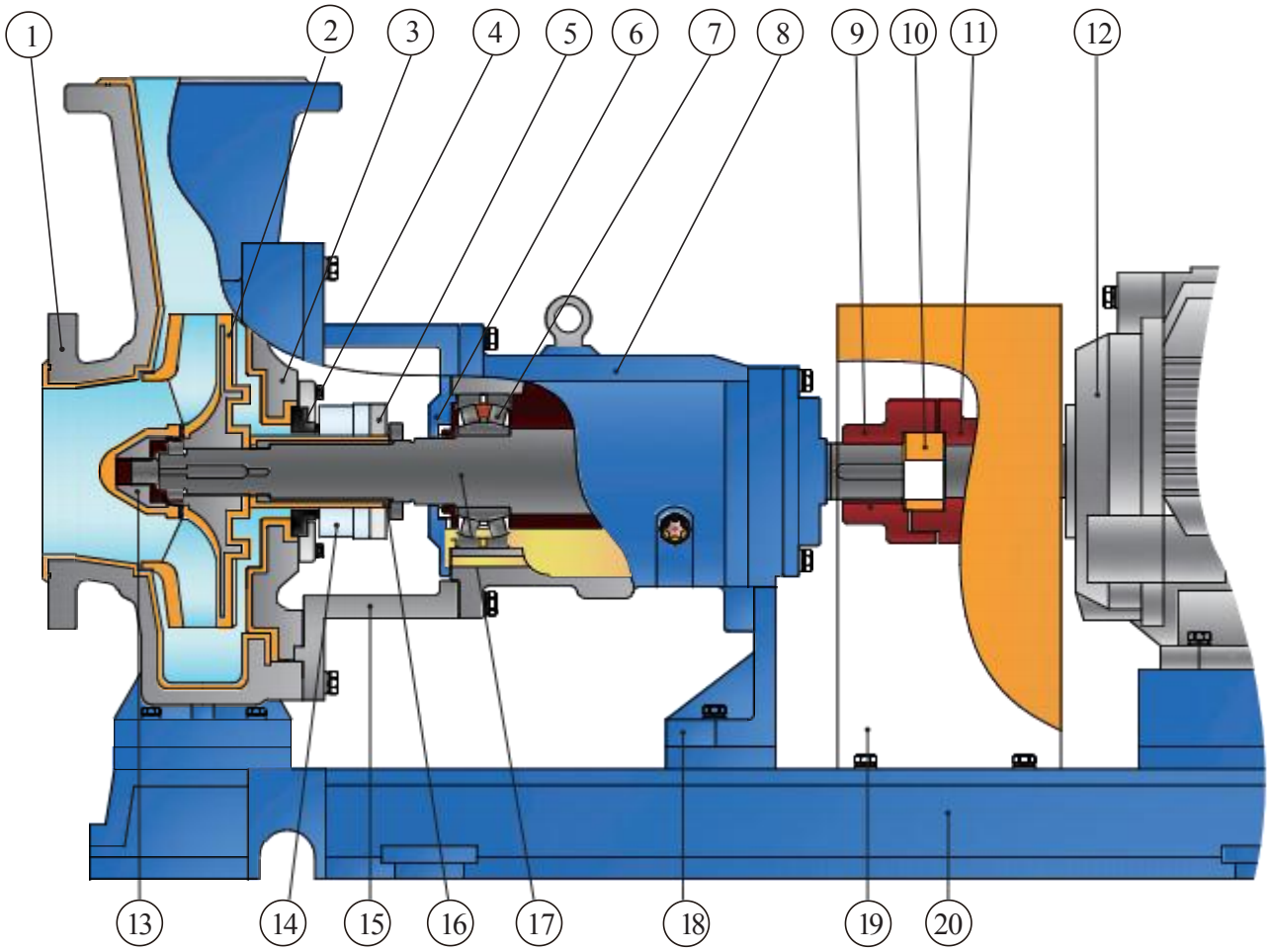
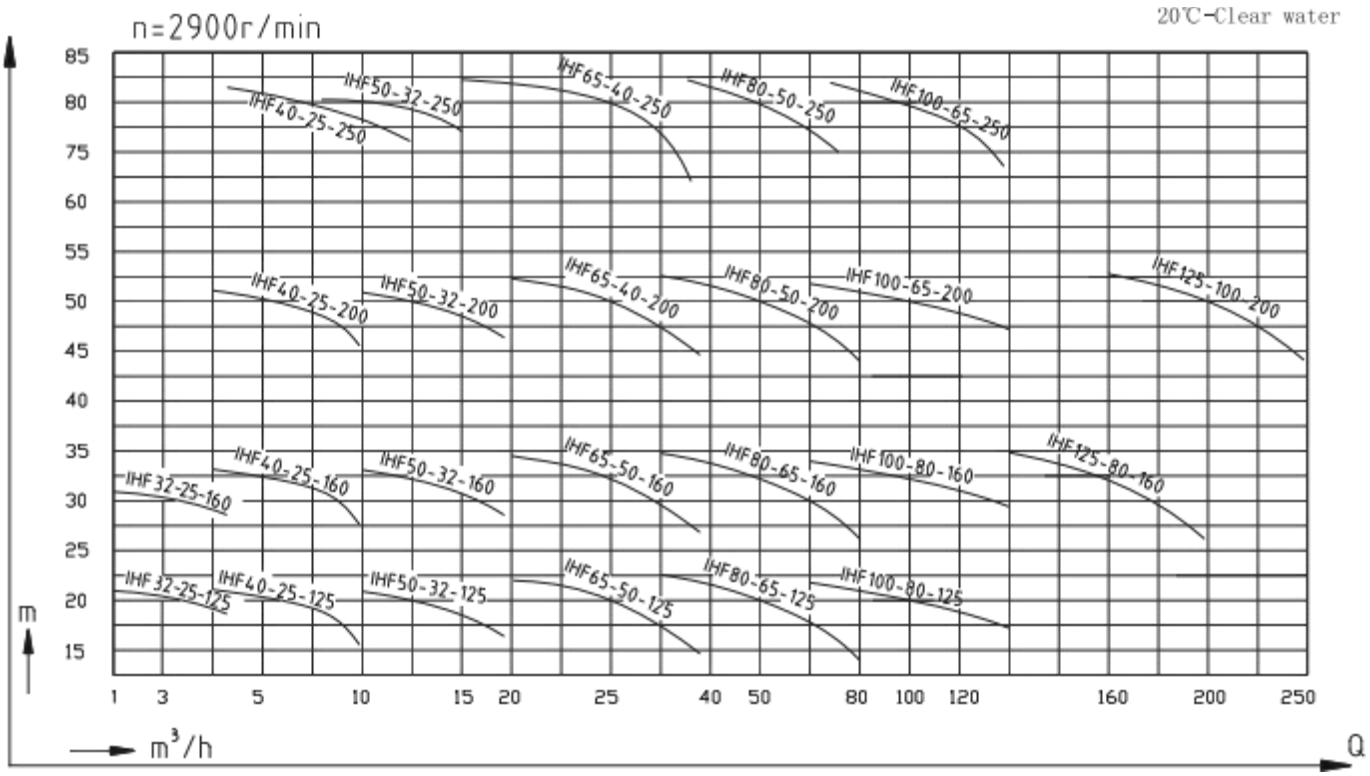
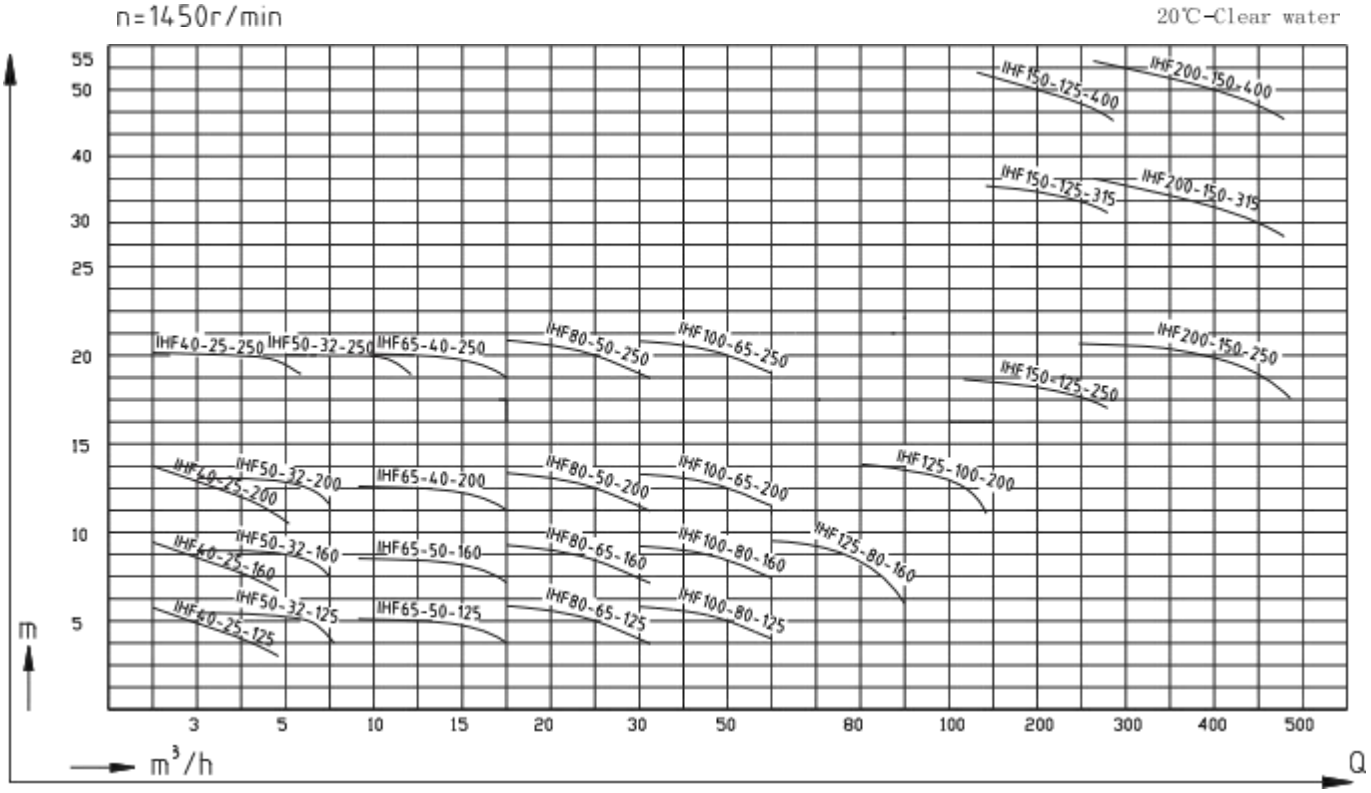


Figure II Calibre >125mm

NO.	Name	Material	NO.	Name	Material
1	Pump shell	HT200/FEP	11	Metor coupling	45#Steel
2	Impeller	FEP/45-Steel	12	Motor	B3-4
3	Pump cover	HT200/FEP	13	Impeller nut	45-Stcel/FEP
4	Machine seal static ring	SIC	14	Double-sided machine seal	Selection and matching
5	Mechanical sealingring	SIC/Carbon fiber	15	Connecting frame	HT200
6	Bearing cover	HT200	16	Shaft sleeve	45#Steel/FEP
7	Bearing	Oil lubrication	17	Pump shaft	2C-13
8	Bearing box	HT200	18	Supoport frame	HT200
9	Pump coupling	45#Steel	19	Shield	A3
10	Elastic pin	Polyurethane	20	Base	HT200

Performance curve





Performance parameter

List one **Two pole motor**

NO.	Type	Flow	Head	EFF	NPSHr	Apertuire		Speed	Power	Weight
NO.	Type	m³/h	m	%	m	mm		r/min	kw	kg
1	VHF25-20-125	1.7	20	28	3.0	25x20	50HZ	2900	1.1	80
		2.1	30				60HZ	3600	1.1	
2	VHF25-20-160	1.7	32	29	3.0	25x20	50HZ	2900	1.5	90
		2.1	48				60HZ	3600	2.2	
3	VHF32-25-125	3.6	20	38	3.0	32x25	50HZ	2900	1.5	98
		4.5	30				60HZ	3600	1.5	
4	VHF32-25-160	3.6	32	39	3.0	32x25	50HZ	2900	2.2	116
		4.5	48				60HZ	3600	3	
5	VHF40-25-125	6.3	20	38	3.0	40x25	50HZ	2900	1.5	98
		7.8	32				60HZ	3600	2.2	
6	VHF40-25-160	6.3	32	31	3.0	40x25	60HZ	3600	3	100
		7.8	48				50HZ	2900	4	
7	VHF40-25-200	6.3	50	23	3.0	40x25	60HZ	3600	5.5	170
		7.8	75				50HZ	2900	5.5	
8	VHF40-32-250	6.3	80	24	3.0	40x32	60HZ	3600	11	255
		7.8	100				50HZ	2900	11	
9	VHF50-32-125	12.5	20	52	3.2	50x32	50HZ	2900	2.2	110
		15.5	32				60HZ	3600	3	
10	VHF50-32-160	12.5	32	47	3.2	50x32	50HZ	2900	4	135
		15.5	48				60HZ	3600	5.5	
11	VHF50-32-200	12.5	50	40	3.2	50x32	50HZ	2900	7.5	180
		15.5	75				60HZ	3600	11	
12	VHF50-32-250	12.5	80	34	3.0	50x32	50HZ	2900	11	255
		15.5	100				60HZ	3600	15	
13	VHF65-50-125	25	20	61	3.5	65x50	50HZ	2900	3	135
		31	32				60HZ	3600	5.5	
14	VHF65-50-160	25	32	56	3.5	65x50	50HZ	2900	5.5	155
		31	48				60HZ	3600	11	
15	VHF65-40-200	25	50	51	3.5	65x40	50HZ	2900	11	210
		31	75				60HZ	3600	18.5	
16	VHF65-40-250	25	80	48	3.5	65x40	50HZ	2900	18.5	360
		31	100				60HZ	3600	22	
17	VHF80-65-125	50	20	65	4.0	80x65	50HZ	2900	5.5	195
		62	32				60HZ	3600	11	
18	VHF80-65-160	50	32	64	4.0	80x65	50HZ	2900	11	228
		62	48				60HZ	3600	18.5	
19	VHF80-50-200	50	50	63	4.0	80x50	50HZ	2900	15	250
		62	75				60HZ	3600	30	
20	VHF80-50-250	50	80	56	4.5	80x50	50HZ	2900	30	480
		62	100				60HZ	3600	37	
21	VHF100-80-125	100	20	65	4.5	100x80	50HZ	2900	11	245
		124	32				60HZ	3600	22	
22	VHF100-80-160	100	32	70	3.0	100x80	50HZ	2900	15	250
		124	48				60HZ	3600	30	
23	VHF100-65-200	100	50	68	3.0	100x65	50HZ	2900	30	480
		124	75				60HZ	3600	55	
24	VHF100-65-250	100	80	65	3.0	100x65	50HZ	2900	45	880
		124	100				60HZ	3600	75	
25	VHF125-100-160	160	32	68	3.0	125x100	50HZ	2900	30	630
		198	48				60HZ	3600	55	
26	VHF125-100-200	200	50	67	3.0	125x100	50HZ	2900	55	980
		248	75				60HZ	3600	90	
27	VHF125-100-250	200	80	62	3.0	125x100	50HZ	2900	75	1100
		248	100				60HZ	3600	132	

VAST FORTUNE

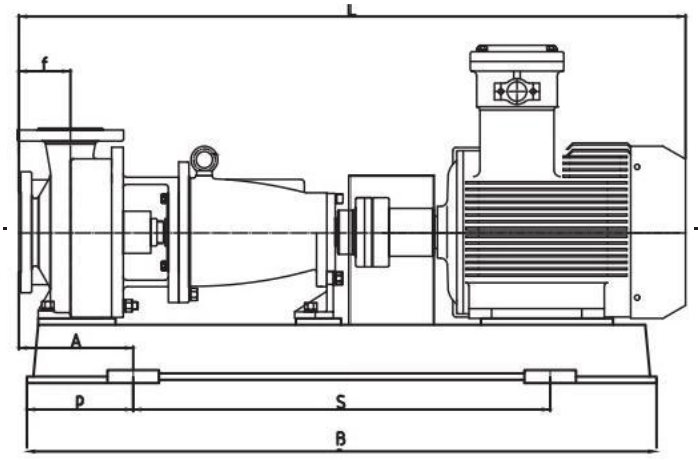
FLUOROPLASTIC CENTRIFUGAL PUMP

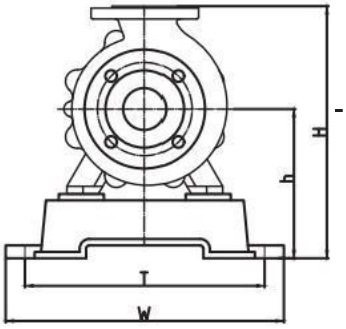
List one

Four pole motor

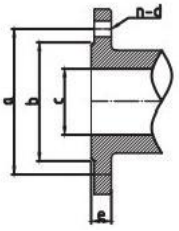
NO.	Type	Flow	Head	EFF	NPSHr	Aperture		Speed	Power	Weight
NO.	Type	m^3/h	m	%	m	mm		r/min	kw	kg
1	VHF32-25-125	1.8	5	38	3	32x25	50HZ	1450	0.55	
		2.2	7.5				60HZ	1800	0.55	
2	VHF32-25-160	1.8	8	39	3	32x25	50HZ	1450	0.55	
		2.2	12				60HZ	1800	0.55	
3	VHF40-25-160	4	8	31	3	40x25	SOHZ	1450	0.55	
		5	12				60HZ	1800	0.75	
4	VHF40-25-200	4	12	23	3	40x25	50HZ	1450	1.1	
		5	18				60HZ	1800	1.1	
5	VHF40-32-250	4	20	24	3	40x32	50HZ	1450	1.5	
		5	30				60HZ	1800	2.2	
6	VHF50-32-125	6.3	5	52	3.2	50x32	50HZ	1450	0.55	
		7.8	7.5				60HZ	1800	0.75	
7	VHF50-32-160	6.3	8	47	3.2	50x32	50HZ	1450	0.55	
		7.8	12				60HZ	1800	1.1	
8	VHF50-32-200	6.3	12.5	40	3.2	50x32	50HZ	1450	1.1	
		7.8	19				60HZ	1800	1.5	
9	VHF50-32-250	6.3	20	34	3	50x32	50HZ	1450	1.5	
		7.8	30				60HZ	1800	2.2	
10	VHF65-50-125	12.5	5	61	3.5	65x50	50HZ	1450	0.55	
		15.5	7.5				60HZ	1800	1.1	
11	VHF65-50-160	12.5	8	56	3.5	65x50	50HZ	1450	1.1	
		15.5	12				60HZ	1800	1.5	
12	VHF65-40-200	12.5	12.5	51	3.5	65x40	50HZ	1450	1.5	
		15.5	19				60HZ	1800	2.2	
13	VHF65-40-250	12.5	20	48	3.5	65x40	50HZ	1450	3	
		15.5	30				60HZ	1800	4	
14	VHF80-65-125	25	5	65	4	80x65	50HZ	1450	1.1	
		31	7.5				60HZ	1800	1.5	
15	VHF80-65-160	25	8	64	4	80x65	50HZ	1450	1.5	
		31	12				60HZ	1800	2.2	
16	VHF80-50-200	25	12.5	63	4	80x50	50HZ	1450	2.2	
		31	19				60HZ	1800	4	
17	VHF80-50-250	20	20	56	4.5	80x50	50HZ	1450	3	
		30	30				60HZ	1800	5.5	
18	VHF100-80-125	50	5	65	4.5	100x80	50HZ	1450	1.5	
		62	7.5				60HZ	1800	3	
19	VHF100-80-160	50	8	70	3	100x80	50HZ	1450	3	
		62	12				60HZ	1800	4	
20	VHF100-65-200	50	12.5	68	3	100x65	50HZ	1450	5.5	
		62	19				60HZ	1800	7.5	
21	VHF100-65-250	50	20	65	3	100x65	50HZ	1450	7.5	
		62	30				60HZ	1800	11	
22	VHF125-100-160	80	8	64	3	125x100	50HZ	1450	5.5	
		99	12				60HZ	1800	7.5	
23	VHF125-100-200	100	12.5	65	3	125x100	50HZ	1450	11	
		124	19				60HZ	1800	15	
24	VHF125-100-250	100	20	68	3	125x100	50HZ	1450	15	
		124	30				60HZ	1800	22	
25	VHF150-125-250	200	20	65	3	150x125	50HZ	1450	22	520
		248	30				60HZ	1800	37	
26	VHF150-125-315	200	32	63	3	150x125	50HZ	1450	45	730
		248	48				60HZ	1800	55	
27	VHF150-125-400	200	50	62	3	150x125	50HZ	1450	75	1200
		248	75				60HZ	1800	90	
28	VHF200-150-250	400	20	63	3	200x150	50HZ	1450	55	730
		496	30				60HZ	1800	75	
29	VHF200-150-315	400	32	64	3	200x150	50HZ	1450	75	1200
		496	48				60HZ	1800	110	
30	VHF200-150-400	400	50	62	3	200x150	50HZ	1450	110	1450
		496	75				60HZ	1800	185	

Mounting size

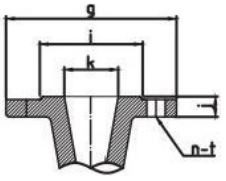




Inlet



Outlet



NO.	Type	Mounting size									Inlet					Outlet				
		L	S	P	W	T	H	h	f	d		a	b	e	n-d	k	g		j	n-t
1	VHF40-25-125	950	600	155	385	310	352	212	80	25	40	150	110	20	4-φ18	25	115	85	18	4-M12
2	VHF40-25-160	1025	585	155	385	325	392	232	80	25	40	150	110	20	4-φ18	25	115	85	18	4-M12
3	VHF40-25-200	1075	650	170	420	365	440	260	80	25	40	150	110	20	4-M16	25	115	85	18	4-M12
4	VHF40-32-250	1200	735	205	500	435	480	280	100	25	40	150	110	20	4-M16	32	140	100	18	4-M16
5	VHF50-32-125	950	600	155	385	310	352	212	80	25	50	165	125	20	4-φ18	32	140	100	18	4-M16
6	VHF50-32-160	1025	600	155	385	310	692	232	80	25	50	165	125	20	4-φ18	32	140	100	18	4-M16
7	VHF50-32-200	1075	650	170	420	360	440	260	80	25	50	165	125	20	4-φ18	32	140	100	18	4-M16
8	VHF50-32-250	1200	720	205	500	435	480	280	100	25	50	165	125	20	4-φ18	32	140	100	18	4-M16
9	VHF65-50-125	995	600	155	385	360	352	242	80	25	65	185	145	20	4-φ18	50	165	125	20	4-M16
10	VHF65-50-160	1075	650	170	420	360	392	232	80	25	65	185	145	20	4-φ18	50	165	125	20	4-M16
11	VHF65-40-200	1180	720	205	500	440	440	260	100	25	65	185	145	20	4-φ18	40	150	110	18	4-M16
12	VHF65-40-250	1350	935	215	600	520	510	280	100	25	65	185	145	20	4-φ18	40	150	110	18	4-M16
13	VHF80-65-125	1095	650	170	420	360	392	232	100	25	80	200	160	20	8-φ18	65	185	145	20	4-φ18
14	VHF80-65-160	1180	720	205	500	440	440	260	100	25	80	200	160	20	8-φ18	65	185	145	20	4-φ18
15	VHF80-50-200	1180	720	205	500	440	460	260	100	25	80	200	160	20	8-φ18	50	165	125	20	4-M 16
16	VHF80-50-250	1543	930	240	600	520	460	260	100	25	80	200	160	20	8-φ18	50	165	125	20	4-M 16
17	VHF100-80-125	1180	720	205	500	440	440	260	100	25	100	220	180	22	8-φ18	80	200	160	20	8-M 16
18	VHF100-80-160	1180	720	205	500	440	460	260	100	25	100	220	180	22	8-φ18	80	200	160	20	8-M 16
19	VHF100-65-200	1543	930	240	600	520	525	300	100	25	100	220	180	22	8-φ18	65	185	145	20	4-φ18
20	VHF100-65-250	1625	940	240	590	520	595	345	125	25	100	220	180	24	8-φ18	65	185	145	20	4-φ18
21	VHF125-100-160	1543	930	240	600	520	505	280	125	25	125	250	210	22	8-M16	100	220	180	20	8-M 16
22	VHF125-100-200	1690	1055	280	660	600	650	370	125	25	125	250	210	26	8-M16	100	220	180	24	8-M 16
23	VHF125-100-250	1810	200	300	730	670	685	405	140	28	125	250	210	26	8-φ18	100	220	180	24	8-φ18
24	VHF150-125-250	1430	840	215	540	490	705	350	140	28	150	285	240	30	8-φ22	125	245	210	27	8-M16
25	VHF150-125-315	1612	940	260	600	550	735	380	140	28	150	285	240	30	8-φ22	125	245	210	27	8-M 16
26	VHF150-125-400	1680	940	240	600	550	815	415	140	28	150	285	240	30	8-φ22	125	245	210	27	8-M 16
27	VHF200-150-250	1762	1060	270	660	590	775	400	160	28	200	340	295	33	12-φ22	150	285	240	28	8-M 20
28	VHF200-150-315	1835	1060	320	660	600	835	435	160	28	200	340	295	33	12-φ22	150	285	240	28	8-M 20
29	VHF200-150-400	2150	1200	300	730	670	890	440	165	28	200	340	295	33	12-φ22	150	285	240	28	8-M 20

Technical characteristics

Mechanical seals:

Moving ring: use Tetrafluorine-filled carbon fiber material, or according to different distribution of ceramic, silicon carbide , pressureless sintering silicon carbide.

static ring: use silicon carbide, ceramicss,pressureless sintering silicon carbide, etc.

Impeller:

The impeller is made by integral moulding, and the steel insert is wrapped in fluoroplastic to ensure the strength of the impeller.

Bearings:

The bearing adopts 2RS double groove ball grease lubricating type, no oil injection is needed in the later period.

Use attention

1 . Ferromagnetic impurity and hard impurity are not allowed in the medium transported by fluorine-lined centrifugal pump. If there are ferromagnetic particles, magnetic filters are required. Moreover, it is not suitable to produce a large amount of crystalline medium after stopping ·

2 . The fluorine-lined centrifugal pump is not allowed to operate at a rated flow rate of less than 30% .

3 . For the delivery of medium density greater than 1200kg/m liquid, we need to inform our sales department, motor power needs to be appropriately increased.

4.The maximum working pressure of mechanical seal is 1.0 MPA, beyond which a mechanical seal thrust ring is required.

5 . Prevent static electricity: when conveying low conductivity liquid, such as ultra-pure water or fluorine inert liquid, will produlce static electricity, will cause discharge and pump damage, should take anti-static measures. (please cons -ult the technical department of our company)

6 . Special medium selection of special grinding parts , such as hydrofluoric acid selection pressureless sintering silicon carbide , nitric acid choice ceramic or silicon carbide.

Installation instructions

1 . Build the concrete foundation according to the size, at the same time bury the anchor bolt.

2 . Before installation, the pump group equipment should be carefully checked, each part should be intact, there is no sundries in the pump cavity.

3 . Put the pump unit on the basis, put a pair of wedge cushion between the bottom plate and the foundation, by adjusting the wedge pad, find the level.

4 . The inlet and outlet lines of the pump should be supported separately by support.

5 . After installation, the coupling is rotated with bare hands to check whether there are any phenomena such as rubbing and running, so that it can rotate easily and freely·

6 . In order to prevent sundries from entering the pump , we recommend the installation of filters, the filter area should be more than 2 - 3 times of the pipeline cross section area.

7 . The pump with high lift should be installed with reverse stop valve on the outlet line to prevent damage caused by sudden shutdown.

8 . The installation height of the pump must be in line with the cavitation allowance of the pump and the pipeline loss and the temperature of the medium must be taken into account.

Start operation

1 . Before opening the equipment, fill the pump chamber with the liquid to be transported to close the outlet valve and connect to the power supply.

2 . Turn on the power and check the steering of the pump in the direction of the sign.

3 . pump unit trial operation 5 -10 minutes, if there is no abnormal phenomenon can be put into operation. 4 . when stopping, the outlet valve should be closed first, and then cut off the power supply.

Equipment disassembly

1.Wash the pump body with clear water first when disassembling until the corrosive medium inside the pump shell is completely clean.

2.when replacing pump machine fittings,may not use sharp object,hard object to hit the pump parts,the removed pa

-rts should be light,sealing face facing up.

Maintenance

1.Periodic inspection of pumps and motors,replacement of vulnerable parts.

2.When the long-term stop is not needed,clean the flow channel inside the pump and cut off the power supply,and cover the dust cover.

3.Turn on the machine in the direction of the sign.Reverse and idling are strictly prohibited.

After-sale service

Provision of spare parts:Vastfortune is able to quickly and reliably supply vulnerable parts and spare parts needed in the production phase to ensure that production does not stagnate.

Equipment maintenance:Vastfortune will help customers to maintain and maintain equipment,timely detection of weak links,careful management to reduce or even avoid repair costs.

Timely service:Equipment downtime or malfunction,customers can contact Vastfortune Company at any time,we will make a quick response for you.

Technical support:Vastfortune service,dedicated and meticulous.We will provide consultation for customers,elite after-sales team,advanced service awareness,expert technical guidance,throughout the product design,selection, sales,use of the entire process.

Simple problem solving

Problem description	Cause analysis	Solution
Unextractable medium	1.Air in inlet piping 2.Inlet pipe leakage 3.Liquid shortage in pump cavity 4.Foreign body in inlet pipe 5.Pump equipment steering marking is inconsistent 6.The suction height is too high	1.Recharge/exhaust 2.Is the inlet pipe damaged 3.Increased injection ofliquid 4.Check the pipeline for foreign bodies 5.Adjusting the steering of pump equipment 6.Lower installation height
Flow,head insufficiency	1.There is foreign body in the pipeline 2.Motor speed insufficiency 3.Impeller damage	1.Clean up foreign bodies 2.Check motor and circuit 3.Replacement ofimpeller
Excessive power	1.Medium density is too large 2.The error between pump axis and motor axis is large 3.Mechanical friction	1.Reducing the specific gravity of medium 2.Adjust axis position 3.Carry out overhaul
Pump equipment vibration	1.Big error between pump axis and motor axis 2.High suction,cavitation 3.Mechanical friction	1.Adjust axis position 2.Lower installation height 3.Inspection of wear and tear

Special performance

Selection item	Description
Electrostatic conductivity	Prevent static electricity from causing fire or explosion
Double-sided machine seal	High temperature resistance and high solid content
Insulation sleeve	Insulation pump cavity to prevent crystallization damage machine seal
High temperature resistance	Suitable for use between 100℃ and 160℃
Motor protector	Can cut off the power instantly
Non-standard motor	For special occasions and special requirements
Non-standard flange	You can customize any standard flange

If you have any other requirements,please contact us.

Full service

1.Pre-sale services:Help customers select and design.

2.After-sales service:The warranty is one year

3.Availability of spare parts.

Easily damaged parts

Name	Explain
Impeller	The easily damaged part is the match of the mechanical seal, the mechanical seal of the centrifugalpump is very important, can greatly improve the service life. Mechanical seal dry grinding,conveying high solid medium, high temperature,high pressure,notinstalled in place will reduce the service life.
Mechanical seal	
Pump cover	
Machine seal gland	

Corrosion resistance table

Chemical resistance ratings:

A Excel lent
B Good
C Fair
X Not recommended
- Date not aval lable

Chemical resistance ratings:

1 20℃
2 40℃
3 60℃
4 80℃
5 100℃
6 120℃

CHEMICAL		PP	PVDF	PTFE	Stainless stee	FKM	NBR	99 Ceramic	High density carbon
Sul furica Acid	0~10%	A4	A6	A6	B1	A6	B2	A5	A6
	10~75%	A3	A3	A6	X	A4	X	A5	A6
	75~100%	B2	B1	A4	C1	A4	-	A5	A4
Nitric Acid	10%	A3	A3	A5	A5	A5	X	A5	A6
	30%	A2	A3	A6	A5	A6	X	A5	A6
	50%	B2	A3	A3	A5	A1	X	A5	A5
Hydrochloric Acid	0~25%	A4	A6	A6	X	A3	B1	A5	A6
	15~40%	A4	A6	A6	X	B2	X	A5	A6
Hydrofluoric Acid	10%	B2	A6	A6	X	A3	X	_	A3
	30%	C2	A6	A6	X	A4	_	_	A3
	60%	X	A5	A6	X	A4	_	_	A2
Acetic Acid	20%	A2	A3	A6	B5	B1	B2	A5	A4
	80%	B1	A3	A6	B1	X	-	A5	A4
Souium Hydroxide	20%	A3	A3	A6	B1	B1	B2	_	A3
	50%	A3	A3	A6	B1	X	B1	_	A3
Bromine Water		C1	A4	A3	C1	A2	-	A1	A2
Ethyl Alcohol		A2	A6	A3	B5	A3	X	A3	A5
Acetone		A2	X	A6	A5	X	-	A3	A5
Freon12		X	A4	A6	B5	A1	X	A4	A4
Aluminum Chloride		A4	A6	A6	X	A5	B4	A4	A5
Ammonia Liquid		A1	A4	A6	A5	C1	B1	A3	A5
Aqua reria		C2	A1	A5	X	B2	-	A4	-
Fornaldehyde		A4	A4	A6	A4	A4	X	A4	A5
Gasoline		X	A6	A6	A5	B3	B3	A4	A6
Kerosene		A1	A6	A6	A5	Al	B1	A4	A6
Methyl alcohol		A3	A6	A6	A5	B2	B4	A5	A6
Toluene		C1	A3	A4	A5	B1	_	A5	A4
Trichloroethylene		C1	A6	A6	B5	Al	-	A4	A6
Xylene		X	A3	A6	A5	B1	_	A5	A5
Nitric acid anhydrous		C1	A3	A3	-	A1	-	A5	A2
Oleum		X	X	A6	X	A4	_	A5	A2
Potassium hydroxide		A4	A3	A6	A1	B1	C2	-	A6

No leakage Maintenance free Super corrosion resistance

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