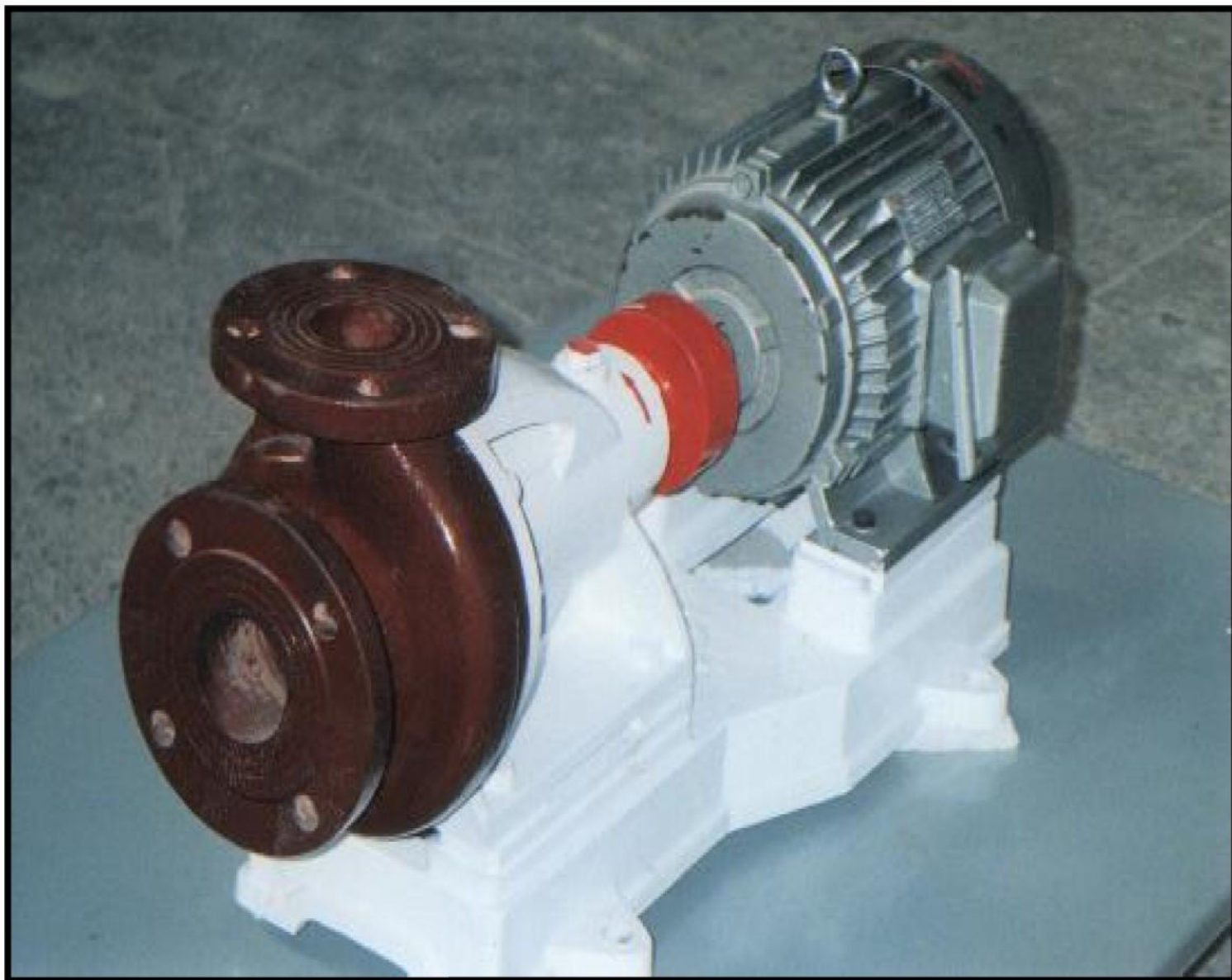




FIBRE CRAFT INDUSTRIES




CHEMICAL RESISTANT PUMPS



www.fcipipes.com

POWER-SAFE
Ladders
Reach the Height



The background of the document features a faded, artistic rendering of industrial machinery. On the left, there is a large, complex pump assembly with a prominent blue cylindrical component and various red and grey pipes and valves. On the right, a vertical red pipe runs upwards, with a horizontal pipe branching off to the right. The overall aesthetic is technical and industrial, with a soft, watercolor-like texture.

IN 1998 WE INTRODUCED OUR CENTRIFUGAL PUMPS FOR CORROSIVE CHEMICALS HANDLING. ITS LAUNCH IN CHEMICAL INDUSTRY WAS GIVEN MUCH APPRECIATION. IN ASSOCIATION WITH OUR PRODUCT USERS, WE STUDIED BEHAVIOURS OF DIFFERENT CORROSIVE FLUIDS AND ALSO DID MUCH RESEARCH TO HANDLE DIFFERENT CHEMICALS. AT PRESENT WE HAVE MANY YEARS SUCCESSFUL PERFORMANCE OF OUR DIFFERENT TYPES OF CENTRIFUGAL PUMPS IN PAKISTAN AND OUR FOREIGN TECHNOLOGY SUPPLIER HAVE MORE THAN FORTY YEARS TRACK RECORD IN HIS HOME MARKET AND OVERSEAS.

WE HAVE SOURCED STATE OF THE ART COMPOSITES FOR FABRICATION OF CENTRIFUGAL AND VACUUM JET CORROSION RESISTANT PUMPS TO HANDLE DIFFERENT TYPE OF CORROSIVE CHEMICALS. WELL KNOWN WORLD PLAYERS ARE NOW ASSOCIATED WITH US, EITHER AS TECHNOLOGY SUPPLIER OR AS SOME ESSENTIAL COMPONENTS FABRICATOR FOR OUR PUMPS.

DUE TO EFFECTIVE PERFORMANCE AND LIFE LASTING CORROSION RESISTANT PROPERTIES OF OUR CENTRIFUGAL PUMPS, OUR SATISFIED CUSTOMERS ADVISED US TO DESIGN/FABRICATE DIFFERENT TYPE OF PUMPS TO SUIT THEIR SPECIFIC REQUIREMENT. JOINT EFFORTS OF OUR TECHNICAL STAFF IN ASSOCIATION WITH OUR VALUED CUSTOMERS HAVE EVOLVED DIFFERENT SERIES OF PUMPS. WE HAVE CONSOLIDATED THESE EFFORTS AND GIVEN IT A BRAND NAME IN ITS AREAS.

WE HAVE LONG LIST OF CUSTOMERS USING DIFFERENT APPLICATIONS, LIKE ACIDS, CAUSTIC SOLUTIONS, HYPO SOLUTIONS, JET FUEL, REVERSE OSMOSIS FEED WATER, REVERSE OSMOSIS ACID AND SEA WATER FEED APPLICATION.

WE CAN FABRICATE CUSTOMIZED PUMPS AS PER CUSTOMERS REQUIRED HEAD AND FLOW RATE.

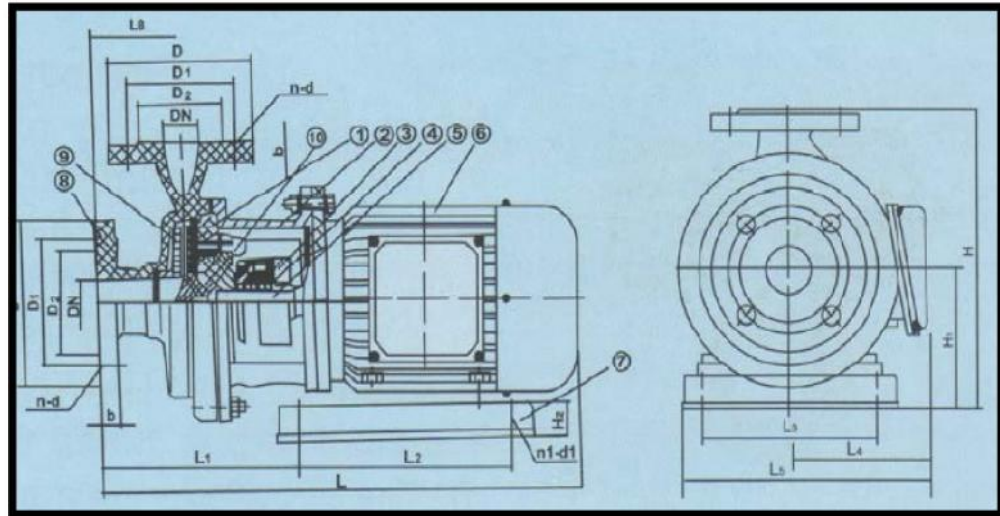
Centrifugal Pump (FCI Series)

FCI 65 x 50 - 32

Head (m)

Delivery Pipe
Diameter
(mm)

Suction
Pipe
Diameter
(mm)



- 6. Pump volute
- 7. Mechanical seal
- 8. Shaft sleeve
- 9. Bearing housing
- 10. Shaft

- 1. Shaft coupling
- 2. Motor
- 3. Base
- 4. Centrifugal impeller
- 5. Pump body

Pump Contour and Installation Dimension:

Series	Suction (Inlet)							Delivery (Outlet)							L	L1	L2	L3	L4	L5	H	H1	n1	d1
	DN	D	D1	D2	b	n	d	DN	D	D1	D2	b	n	d										
FCI 50 x 32 - 32	50	160	125	100	18	4	18	32	135	100	75	18	4	18	945	319	420	310	370	80	435	250	4	24
FCI 65 x 50 - 20	65	180	145	120	21.5	4	18	50	160	125	100	21.5	4	18	830	250	420	250	320	90	360	210	4	18.5
FCI 65 x 50 - 32	65	185	145	122	22	4	18	50	165	125	102	22	4	18	1020	345	420	310	370	90	430	250	4	24
FCI 80 x 65 - 32	80	195	160	135	23.5	4	18	65	180	145	120	21.5	4	18	1022	370	520	310	410	100	450	250	4	24
FCI 80 x 65 - 32	80	195	160	135	23.5	4	18	65	180	145	120	21.5	4	18	1150	370	520	310	410	100	480	250	4	24
FCI 100 x 80 - 50	100	215	180	158	24	8	18	80	195	160	138	23.5	4	18	1353 1462	428	635	370	485	110	530 575	280 300	4	24

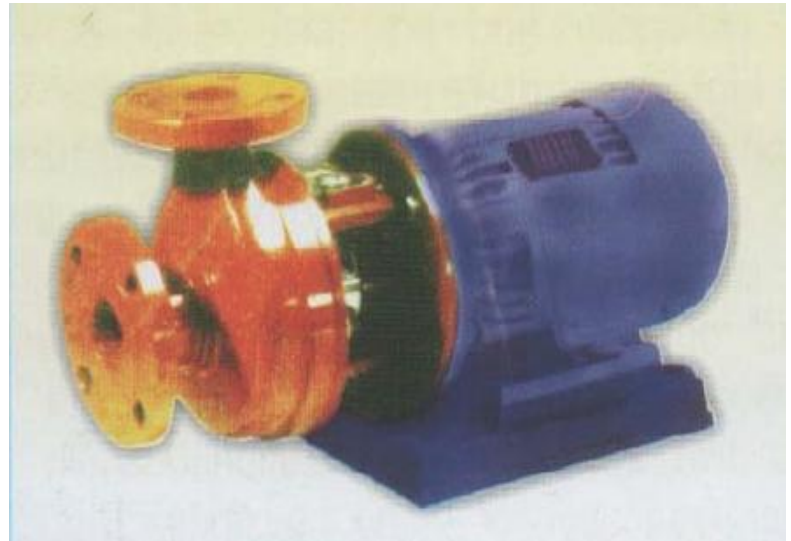
Performance parameters of FCI series centrifugal pumps

Series	Flow Rate m ³ /h	Head m	Pump rpm	Pump Efficiency (η) %	NPSHr m	Motor Power Kw
FCI 50 x 32 - 32	12.5	32	2900	51	3	4.0
FCI 65 x 50 - 20	25	20	2900	64	3	3.0
FCI 65 x 50 - 25	25	25	2900	61	3	3.0
FCI 65 x 50 - 32	25	32	2900	60	3	5.5
FCI 80 x 65 - 32	50	32	2900	69	4	7.5/11
FCI 100 x 80 - 50	100	50	2900	73	5	22/30

Centrifugal Uni Block Pump (FCI Series)

FCI 65 x 50 - 32

- Head (m)
- Delivery pipe diameter (mm)
- Suction pipe diameter (mm)
- FCI Series centrifugal pumps

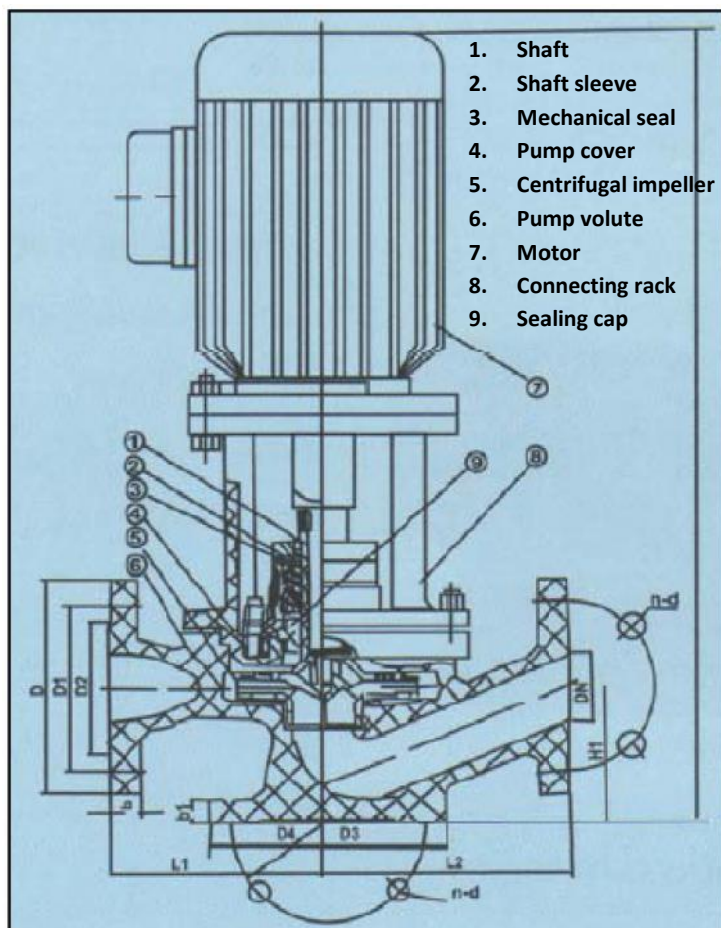


Pump contour and installation dimensions

Series	Suction (Inlet)							Delivery (outlet)							L	L1	L2	L3	L4	L5	L6	H	H1	H2	n2	d2
	DN	D	D1	D2	b	n	d	DN	D	D1	D2	b	n	d												
FCI 25 x 25 - 12.5	25	115	85	65	16	4	14	25	115	85	65	16	4	14	437	180	180	140	150	244	60	200	94	23	4	14
FCI 40 x 32 - 20	40	145	110	88	18	4	18	32	135	100	78	18	4	18	458	192	200	150	150	252	82	258	120	40	4	14
FCI 40 x 32 - 32	40	145	110	88	18	4	18	32	138	100	78	18	4	18	540	230	240	160	155	262	85	315	145	55	4	18
FCI 50 x 40 - 20	50	160	125	100	20	4	18	40	145	110	88	19	4	19	535	226	240	160	155	262	100	295	145	55	4	18

Performance parameters of the FCI series pumps (uni block)

Series	Flow Rate m³/h	Head m	Pump rpm	Pump Efficiency (η) %	NPSHr m	Motor Power Kw
FCI 25 x 25 - 12.5	3.2	12.5	2900	41	3	0.55
FCI 40 x 32 - 20	6.3	20	2900	50	3	1.1
FCI 40 x 32 - 32	6.3	32	2900	45	3	2.2
FCI 50 x 40 - 20	12.5	20	2900	53	3	2.2



Vertical Centrifugal In Line Pump (IL Series)

IL 50 - 20

→ Head (m)

→ Suction and delivery size (mm)

Pump contour and installation dimensions

Series	DN	D	D1	D2	b	n	d	L1	L2	H	H1	D3	D4	b1	n	d1
IL 25 - 12.5	25	115	85	65	15	4	14	110	130	430	70	125	100	16	4	14
IL 40 - 20	40	145	110	88	19	4	18	140	160	460	80	150	110	16	4	14
IL 50 - 20	50	160	125	100	21	4	18	160	180	580	100	172	140	16	4	14
IL 50 - 32(3Kw)	50	160	125	100	21	4	18	180	200	660	120	200	165	20	4	18
IL 50 - 32(4Kw)	50	160	125	100	21	4	18	180	200	680	120	200	165	20	4	18

Performance parameters of IL series Centrifugal pumps

Series	Flow Rate m³/h	Head m	Pump rpm	Pump Efficiency (%) (h)	NPSHr m	Motor Power Kw
IL 25 - 12.5	3.2	12.5	2900	37	3	0.55
IL 40 - 20	6.3	20	2900	45	3	1.1
IL 50 - 20	12.5	20	2900	57	3	2.2
IL 50 - 32	12.5	32	2900	47	3	3.0/4.0

Wet Pit Vertical Pumps (WPV- Series)

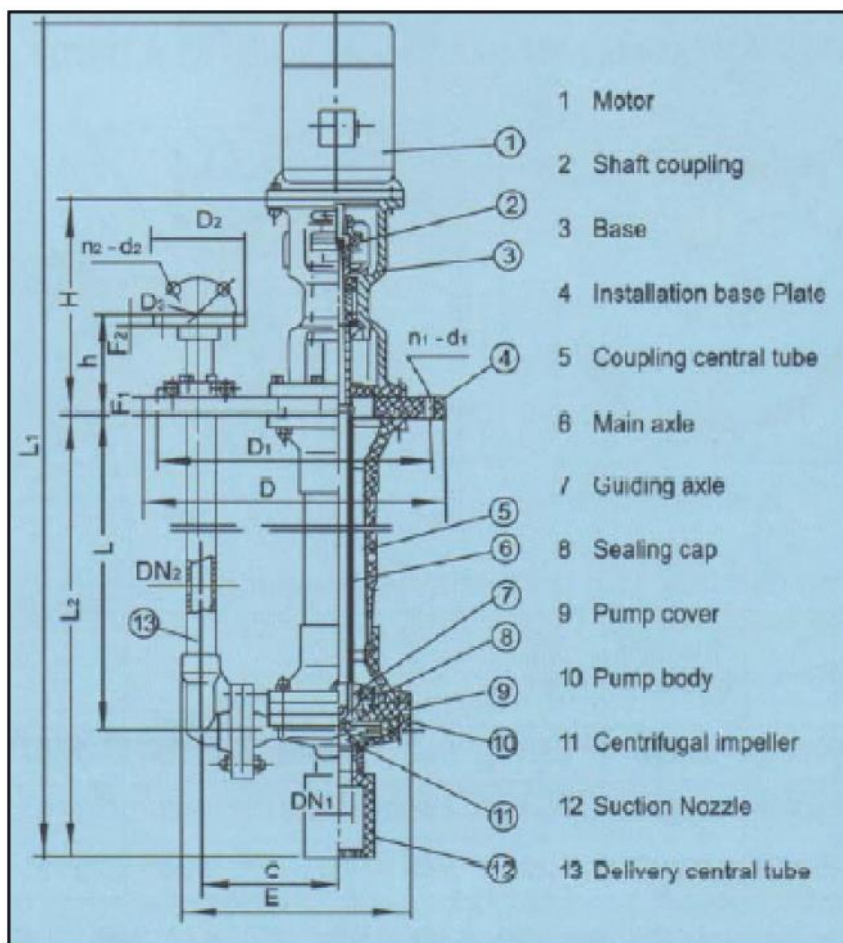
It is heavy bottom end suction pump. For corrosive liquids, having certain amount of solids and crystals can be pumped easily. Its performance is proved for transfer of corrosive mixture like mix acids, alkalis, neutralized liquids and disposal of waste liquors. These pumps are deigned to complete with the latest edition of API 610.

WPV 50 x 40 - 20

→ Lift

→ Diameter of drain outlet

→ Diameter of suction inlet



Pump Contour and Installation Dimensions

Series	DN ₁	DN ₂	C	E	D	D ₁	n ₁	d ₁	D ₂	D ₃	n ₂	d ₂	F ₁	F ₂	L ₂	L ₁	L	h	H
WPV 40 x 30 - 20	40	32	200	330	435	395	12	14	135	100	4	18	24	18	1180 1680	1754 2254	1000 1500	144	310
WPV 50 x 40 - 20	50	40	210	344.5	485	445	12	22	145	110	4	18	30	18	1190 1690	1835 2335	1000 1500	150	316
WPV 65 x 50 - 20	65	50	230	375.5	535	495	16	23	165	125	4	18	30	18	1220 1720	1880 2380	1000 1500	150	342

The Performance of the WPV-Series

Series	Flow Rate m ³ /h	Head m	Pump rpm	Pump efficiency	Motor Power kw
WPV 40 x 32 - 20	6.3	20	2900	45	1.5
WPV 50 x 40 - 20	12.5	20	2900	54	2.2
WPV 65 x 50 - 20	25	20	2900	63	4

Self Priming Centrifugal Pumps (FSP Series)

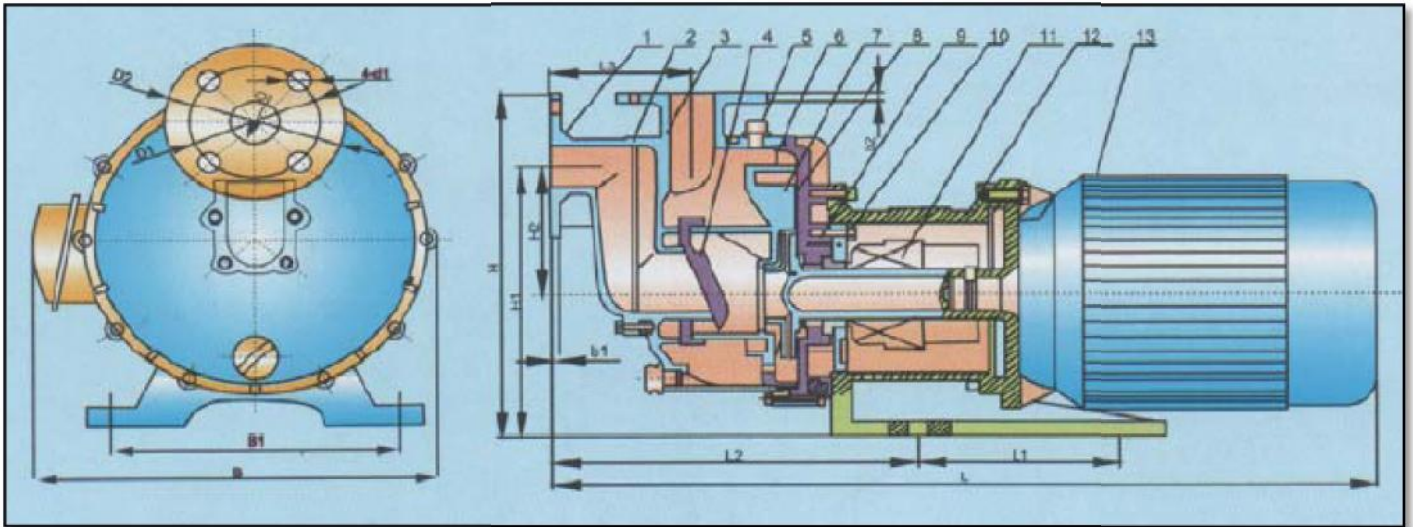
- Ultimate pumping solution for corrosive liquids
- Pump is fabricated in thermoset and thermo plastic materials.
- Seek advice before putting a pump in service.

SPC 25---12

Head (m)

Suction/Delivery Pipe Diameter (mm)

SPC Series Centrifugal Pump



Pump Contour and Installation Dimensions

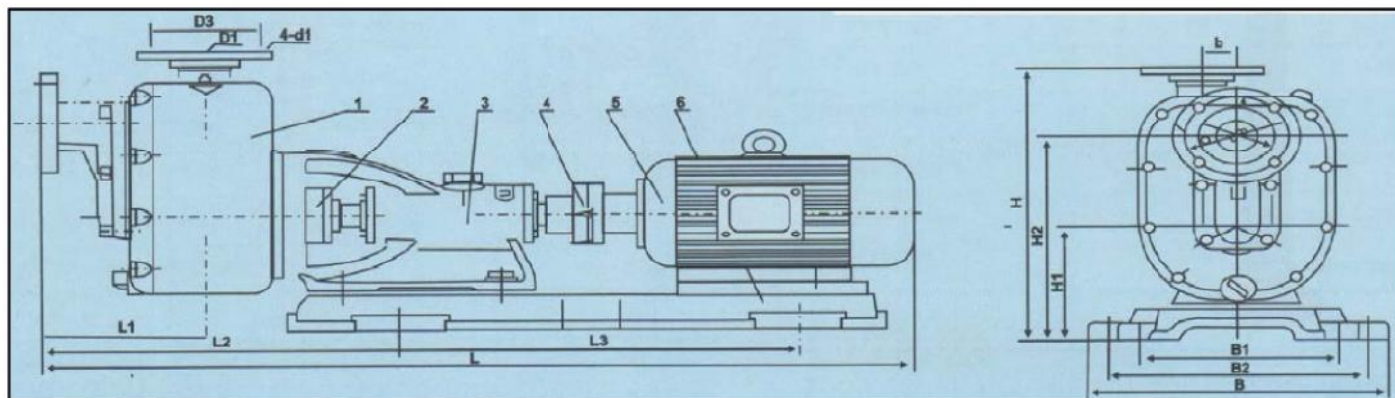
Series	Suction / Delivery	L	L1	L2	L3	B	B1	H	H1	H2	b1/b2	D1	D2	d2
FSP25-12	25/25	580	140	280	115	260	180	287	230	105	16/16	85	115	14
FSP40-18	40/40	650	160	300	125	280	200	312	240	117	18/18	110	145	14
FSP50-18	50/50	720	180	324	135	313	220	337	257	127	18/18	125	160	18

The performance of the WPV-Series

Series	Flow Rate m ³ /h	Head m	Pump rpm	Pump Efficiency %	Motor Power Kw	Suction Depth m
FSP 25-12	5	12	2900	38	1.1	4
FSP 40-18	9	18	2900	42	2.2	5
FSP 50-18	18	18	2900	50	3	5

Self Priming Pump (TSP Series)

- Adopt connecting rack structure.
- High efficiency self priming performance, ensure self prime liquid in a minimum time.
- The parts in contact with pumping liquid are FRP and fluoro rubber, which is graduated anti-corrosion performance.



Technology parameters of SPC Series

Series	Flow Rate m³/h	Head m	Pump rpm	Pump Efficiency (η) %	NPSHr m	Motor Power Kw
SPC 50 x 40-20 TSP	12.5	20	2900	48	5	3

Installation dimensions

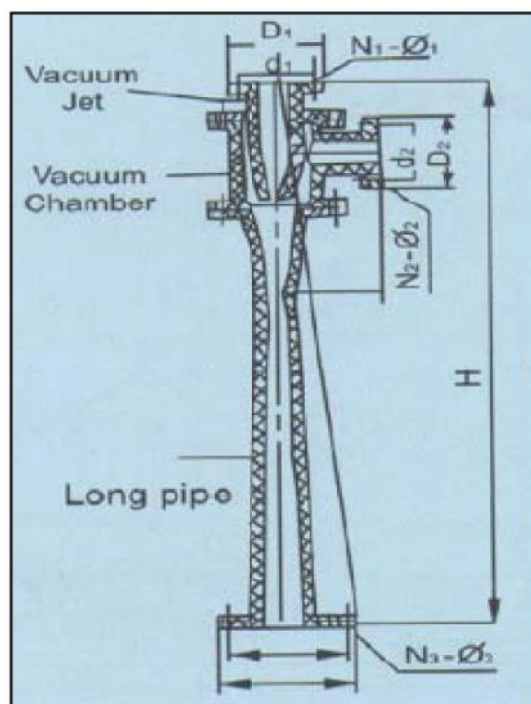
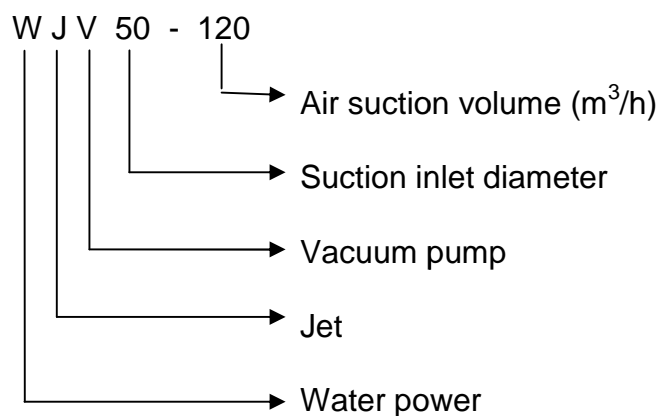
Series	D0	D1	D2	D3	d0	d1	b	L	L1	L2	L3	B	B1	B2	H	H1	H2
TSP 50 x 40 - 20	50	40	125	110	18	18	32	889	165	360	420	360	250	320	465	210	350

Check valve / base valve/ foot valve

Size	Overall length mm	Internal Diameter mm
DN50	180	60
DN65	210	76



Water jet vacuum pump (WJV Series)



Pump Contour and Installation Dimensions

Series	D ₁	d ₁	N ₁ -Ø ₁	D ₂	d ₂	N ₂ -Ø ₂	D ₃	d ₃	N ₃ -Ø ₃	L	H
WJV 50 - 120	160	125	4 - 18	160	125	4 - 18	195	160	4 - 18	115	1290
WJV 50 - 72	160	125	4 - 18	160	125	4 - 18	160	125	4 - 18	115	350

Performance parameters (25°C, 1atm)

Series	water flow parameters			MAXIMUM	
	flow rate	pressure	suggested centrifugal pump	Vacuum limit	Suction Volume
WJV 50 - 120	>25m ³ /h	0.3Mpa	FCI 65 x 50-32	> 720mmHg	120m ³ /h
WJV 50 - 72	>25m ³ /h	0.3Mpa	FCI 65 x 50-32	> 720mmHg	72m ³ /h

Multi stage centrifugal pumps

Performance parameters of MS Series

Series	Flow Rate m ³ /h	Head m	Pump rpm	Pump Efficiency (h) %	NPSHr m	Motor Power Kw
MS 25 7 x 3	1.6	21	2900	38	2	0.55
MS 25 7 x 4	1.6	28	2900	38	2	0.55



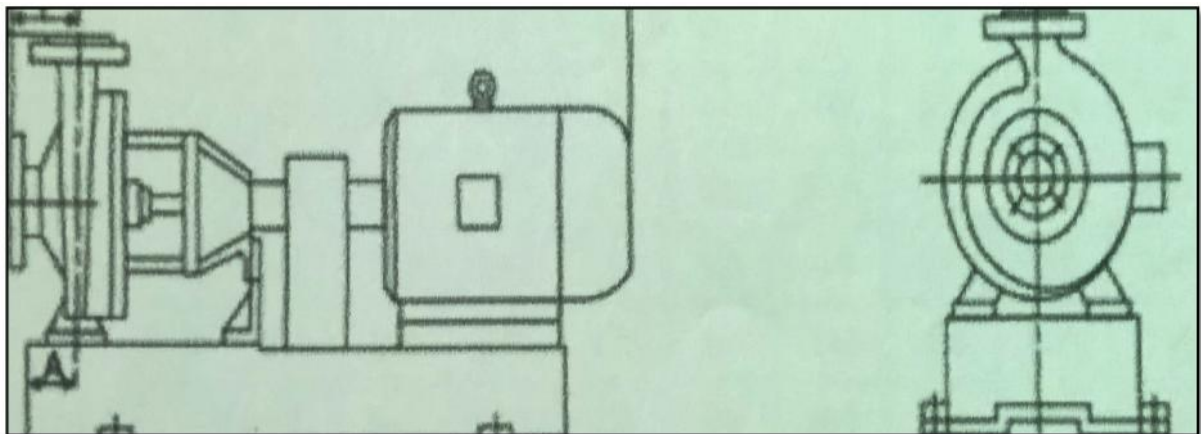
Centrifugal Pump (IHF Series)

FCI IHF-series Single stage suction fluoroplastic alloy centrifugal pump is manufactured according to international design and principle of nonmetal pump. The pump has the advantages such as anticorrosion, wearable, anti-high temperature, anti aging and high mechanical strength. These pumps are widely used in transporting the liquid, waste water, corrosive medium of any concentration, like sulfuric acid, hydrochloric acid, nitric acid, acetic acid, aqua regia, strong alkali, strong oxidants, organic solvents and find application in chemical, pharmaceutical, petroleum, metallurgical, power, electroplating, pickling, pesticides, paper and many other areas. Pump body is made up of metal, impeller and pump cover are made by integrated sintering and pressure molding of metal insert and fluoro plastic housing. Dynamic ring is made of PTFE stuffing material. The pump has advanced and reasonable structure, corrosion resistant, tight and reliable sealed performance, work stability, low noise and long life.



IHF – 125 – 80 - 160

- Impeller diameter
- Outlet diameter
- Inlet diameter
- Chemical Pump





Our highly skilled knowledgeable staff specializes in tackling unique and difficult system needs to create customized solutions. Our engineering staff can create succinct solutions for the transfer of any kind of fluid required by our clients, from the single pump and motor mounted base to a sophisticated equipment package that incorporates PLC controls, instrumentation, and other process equipment (control valves, heat exchangers, piping, valves, etc.). We can satisfy your packaged system requirements. Contact us and let our experienced technicians help resolve your issue.



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