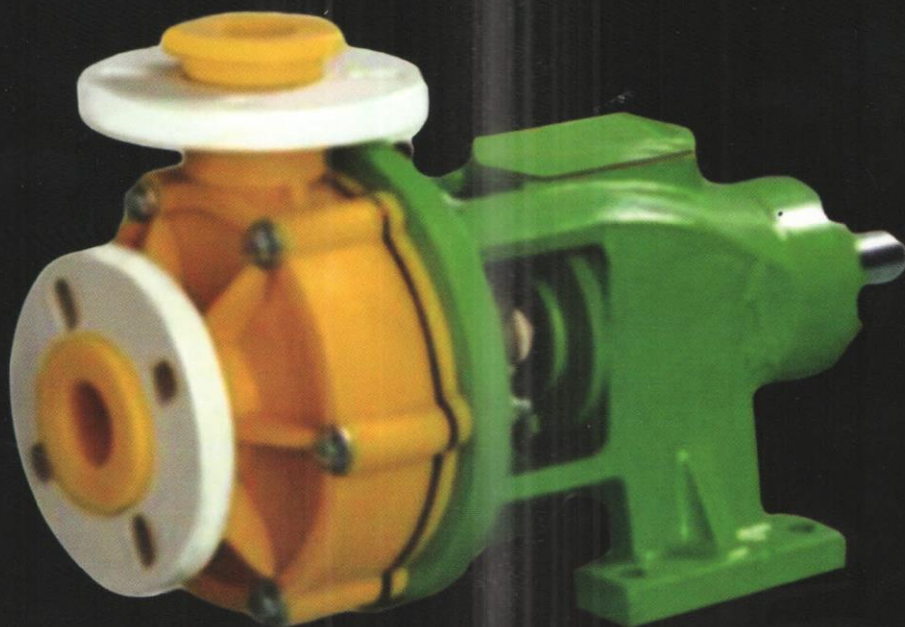


J.K.

CHEMICAL PUMPS

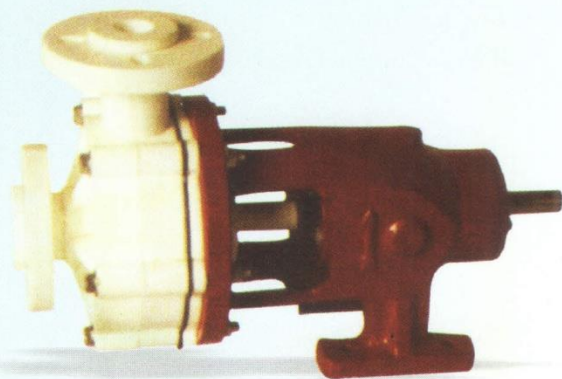


- Precision Engineered
- Reliable
- Economical

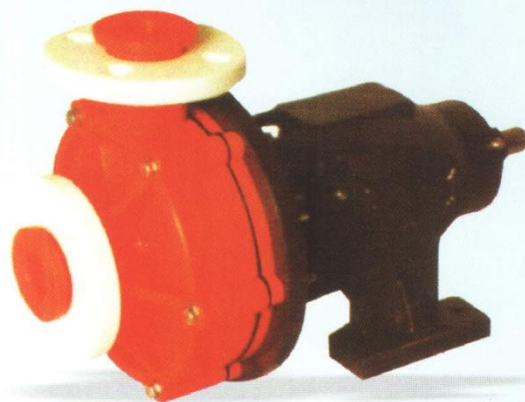
ALFA SERIES

High Efficiency Economical Pumps

J.K. PUMP



ALFA 100



ALFA 130

MODEL	SUCTION (mm)	DELIVERY (mm)	IMPELLER DIA (mm)	HP	RPM	HEAD in m CAPACITY in m3/hr				
						12.5 00	11 02	10 4.5	9 05	08 06
ALFA 100	25	25	100	01	2900					
ALFA 120	40	40	120	02	2900	17 00	15 05	12 14	10 17	07 20
ALFA 130	50	40	130	03	2900	31 00	24 12	20 20	15 25	09 30

- * Compact, high efficiency pumps for demanding budgets
- * ALFA series re-affirms antico's design philosophy to design pumps that are simple, rugged & reliable using the most appropriate materials
- * Ideal for circulation of chemical in metal finishing (electroplating) industry
- * Standard pumps with ceramic sleeve & teflon bellows mechanical seal
- * PVDF impellers available on request

ALFA SERIES

Time Tested Proven Design

J.K. PUMP



ALFA 50



ALFA 55

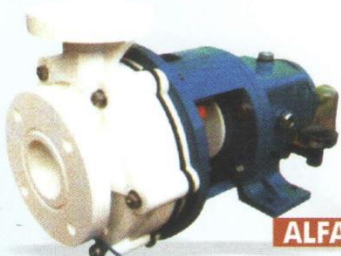
MODEL	SUCTION (mm)	DELIVERY (mm)	IMPELLER DIA (mm)	HP	RPM	HEAD in m CAPACITY in m3/hr					
						15	13	12	10	08	06
ALFA 50	75	40	205	03	1440	00	10	15	23	30	40
ALFA 50R	40	40	190	02	1440	00	02	06	12	25	00
ALFA 55	75	50	210	05	1440	00	06	10	20	28	37

- * Low head (upto 15) medium capacity pumps coupled to 1440 rpm motors
- * Excellent for transferring and loading / unloading of acid / alkali road tankers

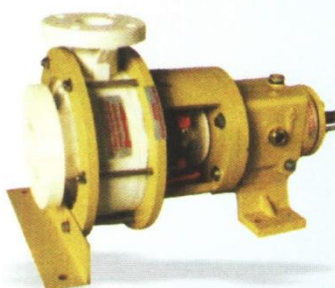
ALFA SERIES

Standard Process Pumps

J.K. PUMP



ALFA 160



ALFA 170

MODEL	SUCTION (mm)	DELIVERY (mm)	IMPELLER DIA (mm)	HP	RPM	HEAD in m CAPACITY in m3/hr					
						31	26	25	20	15	10
ALFA 160	75	40	160	05	2900	00	12	15	25	30	35
ALFA 160R	40	40	150	03	2900	00	03	05	10	20	26
ALFA 170	75	50	160	7.5	2900	00	15	25	32	38	50

- * No. 1 choice for process plants
- * Natural choice for pickling line in steel plants
- * PVDF impellers available on request

ALFA SERIES

High Capacity Transfer Pumps

J.K. PUMP



ALFA 500



ALFA 1000

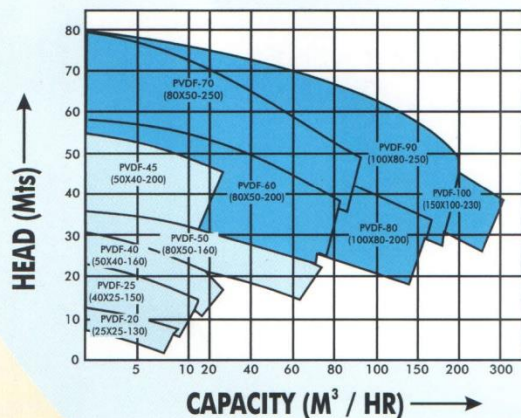
- * High Capacity transfer pumps
- * Ideal for bulk transfer of acidic effluents for large process plants
- * Natural choice for scrubbers of steel industry

MODEL	SUCTION (mm)	DELIVERY (mm)	IMPELLER DIA (mm)	HP	RPM	HEAD in m CAPACITY in m3/hr				
ALFA 500	50	50	220	3	1440	17 00	13 13	11 26	8 35	7 40
ALFA 500	50	50	220	15	2900	74 00	70 24	50 50	30 67	11 73
ALFA 750	75	50	175	20	2900	40 00	38 40	35 65	30 90	25 105
ALFA 1000	100	75	265	20	1440	25 00	24 75	22 135	20 130	18 147
ALFA 1000R	75	50	265	15	1440	26 00	25 35	23 55	20 85	18 90

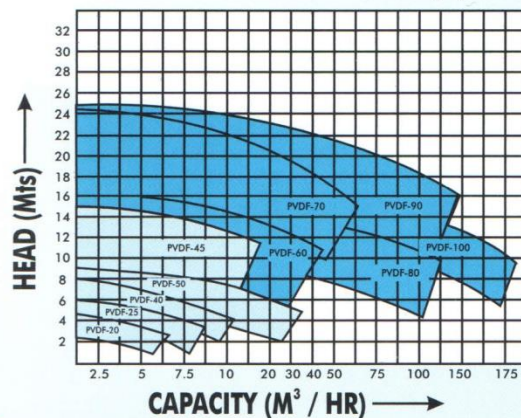
ALFA PVDF CHEMICAL PROCESS PUMPS

J.K. PUMP

Characteristic Curves at 2900 rpm (50 Hz)

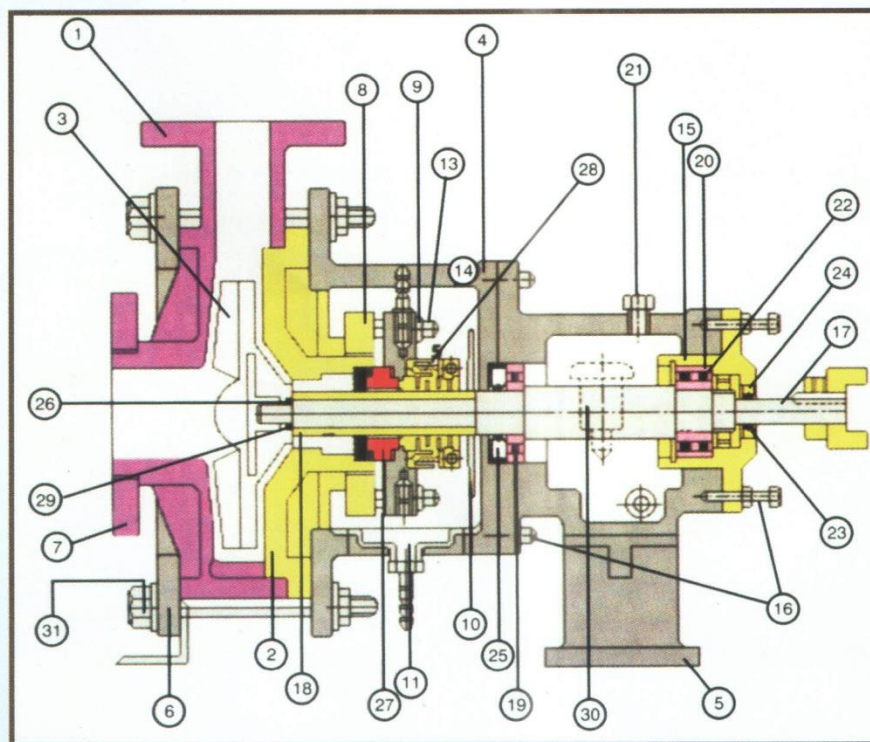


Characteristic Curves at 1450 rpm (50 Hz)



CROSS SECTION

Sr. No.	PART NAME	M.O.C.	Sr. No.	PART NAME	M.O.C.
1.	Volute Casing	Polypropylene	17.	Bare Shaft	EN-8/EN41
2.	Back Plate	Polypropylene	18.	Shaft Sleeve	Ceramic
3.	Impeller	PP	19.	Bearing - In Bord	Steel
4.	Adapter	Cast Iron	20.	Bearing - Out Bord	Steel
5.	Leg	Cast Iron	21.	Circlip	Steel
6.	Cage-Ring	Cast Iron	22.	Star Washer	Steel
7.	Suction Flange	Polypropylene	23.	Lock Nut	Steel
8.	Adapter Flange	Polypropylene	24.	Oil Seal (40x25x10)	Neoprene
9.	Locating Flange	Hylern	25.	Oil Seal (30x75x10)	Neoprene
10.	Deflector	Polypropylene	26.	'O' Ring	Neoprene
11.	Drip-Tray	Polypropylene	27.	St. Unit Mech. Seal	Ceramic
12.	Reducer-40x40 (Optional)	Polypropylene	28.	Rotary Unit Mech. Seal	Teflon Bellow
13.	Bolts for Clamp	PP - SS	29.	Impeller Seal Ring	P.T.F.E.
14.	Bearing Housing	Cast Iron	30.	Constant Level Oiler	Al/ABS Plastic
15.	Bearing Cover	Cast Iron	31.	Cage Ring Hardware	MS CAD PLTD
16.	Bearing Housing Hardware	M.S. CAD Pltd.			



U.H.M.W. - PE PUMPS / Slurry Pumps

END SUCTION HORIZONTAL CENTRIFUGLE PUMPS PERFORMANCE TABLE AT - 1440 RPM

Model	Suction Size	Diascharge	Impeller Dia	HP	RPM	Head in mtr./Capacity in m3 / hour					
PE-50R	40	40	195	ZHP	1440	13/00	12/5	11/10	10/15	9/20	8/24
PE-50	75	40	205	3HP	1440	14/00	13/5	12/15	11/20	10/25	9/30
PE-55	75	50	212	5HP	1440	16/00	15/5	14/14	12/25	10/35	8/45
PECL-50	50	50	220	5HP	1440	17.6/00	17/16	15/25	13/30	11/40	8/48
PECL-100R	75	50	250	15HP	1440	24/00	23/40	21/60	20/80	16/100	13/115
PECL-100	100	75	265	20HP	1440	24.5/00	24/65	22/90	19/135	18/150	15/170
PECL-150R	100	75	315	40HP	1440	34.5/00	34/50	33/105	31/125	28/165	22/250
PECL-150	150	100	320	50HP	1440	35/00	34/50	31/190	29/140	26/280	25/300

END SUCTION HORIZONTAL CENTRIFUGLE PUMPS PERFORMANCE TABLE AT - 1440 RPM

Model	Suction Size	Diascharge	Impeller Dia	HP	RPM	Head in mtr./Capacity in m3 / hour					
PE-120	40	40	120	2HP	2880	18/00	16/08	15/12	12/20	10/24	00/00
PE-130	40	40	150	3HP	2880	23/00	18/12	18/12	15/18	12/24	08/30
PE-160R	40	40	142	3HP	2880	24/00	20/10	20/10	18/12	15/18	10/26
PE-160	75	40	160	5HP	2880	31/00	25/15	25/15	20/25	15/30	10/35
PE-170R	50	50	160	5HP	2880	32/00	25/18	25/18	22/24	18/30	15/35
PE-170	75	50	160	7.5HP	2880	35/00	30/25	30/25	25/32	20/38	12/50
PE-40	50	40	190	12.5HP	2880	49/00	40/15	40/15	35/25	30/42	25/45
PECL-50	50	50	200	15HP	2880	62/00	59/20	59/20	55/32	50/50	55/45
PECL-75	75	50	185	20HP	2880	47/00	43/60	43/60	40/75	35/90	30/105

VERTICAL GLAND LESS PUMPS PERFORMANCE TABLE AT - 1440 RPM

Model	Suction Size	Diascharge	Impeller Dia	HP	RPM	Head in mtr./Capacity in m3 / hour					
VGP-50R	40/75	40	195	2HP	1440	12/00	11/05	10/10	09/13	07/18	06/20
VGP-50	75	40	205	3HP	1440	13/00	12/06	11/09	10/15	09/20	08/26
VGP-55	75	50	212	5HP	1440	15/00	14/05	13/10	11/20	10/30	08/38
VGPCL-100R	75	50	250	15HP	1440	22.5/00	22/30	21/50	20/65	16/85	12/105
VGPCL-100	100	75	265	20HP	1440	23.5/00	23/55	21/80	20/120	17/135	14/160
VGPCL-150R	100	75	315	40HP	1440	33/00	32/45	31/90	30/110	27/145	20/210
VGPCL-150	150	100	320	50HP	1440	34/00	33/40	30/175	28/220	25/260	23/285

VERTICAL GLAND LESS PUMPS PERFORMANCE TABLE AT - 2880 RPM

Model	Suction Size	Diascharge	Impeller Dia	HP	RPM	Head in mtr./Capacity in m3 / hour					
VGP-120	40	40	120	2HP	2880	17/00	15/06	12/10	10/13	08/16	00/00
VGP-130	40	40	150	3HP	2880	23/00	20/08	18/10	15/13	12/16	10/20
VGP-160R	40	40	142	3HP	2880	24/00	20/10	18/12	15/15	12/20	10/25
VGP-160	75	40	160	5HP	2880	28/00	25/12	20/15	15/20	12/30	10/34
VGP-170	75	50	160	7.5HP	2880	30/00	30/14	25/22	20/26	15/40	12/42
VGP-40	50	40	190	12.5HP	2880	46/00	42/6	38/12	32/20	28/36	20/40
VGPCL-75	75	50	185	20HP	2880	45/00	42/20	40/55	38/65	35/82	28/100



CHEMICAL PROCESS PUMPS IN INVESTMENT CASTING

J.K. PUMP

Specifications

Casing

Top Centre line Discharge, Selfventing Casing, arranged for back pull-out fully confined PTFE gasket. Foot support under casing for maximum resistance to misalignment and distortion from pipe loads.

Impeller

Fully open, has partial shrouds for maximum vane support without high thrust inherent in full shroud designs.

Impeller is tightened on shaft with nut and threads are sealed by a PTFE 'O' Ring. Impeller nut assures non opening of impeller with wrong rotation of motor. All impellers are statically and dynamically balanced.

Stuffing box cover

Encloses back of casing and contains stuffing box chamber. Cover is fastened to frame. Cover can be supplied with jacket for cooling stuffing box chamber in high temperature services. Jacket can also be used for heating viscous or high freezing point liquids.

Packed box has 4 rings of packing and a lantern ring. Quench gland with taps and an auxillary ring of packing is standard. Gland is split for easy removal. Tapped openings to lantern ring permit "in and out" sealing, external flushing or lubrication as required.

Stuffing box is completely machined for mechanical seal installation for inside, outside, unbalanced, balanced, single seals.

Bearing frame

Sturdy cast iron construction provides rigid bearing alignment and shaft support. Contains large oil reservoir with water jacket. Oil, level is maintained by constant level oiler with visible oil supply. Oil seals on each end and oil breather fully protects or form contamination while allowing for expansion or contraction of air caused by ambient temperature change.

Shaft

A single piece shaft is designed for 0.05mm maximum deflection at stuffing box face. All critical surfaces ground to less than 0.8micron

Shaft sleeve

Renewable shaft sleeve is positive driven, key way type with one end free to expand with temperature variations. PTFE 'O'-ring prevents

Casing

Top Centre line Discharge, Selfventing Casing, arranged for back pull-out fully confined PTFE gasket. Foot support under casing for maximum resistance to misalignment and distortion from pipe loads.

Impeller

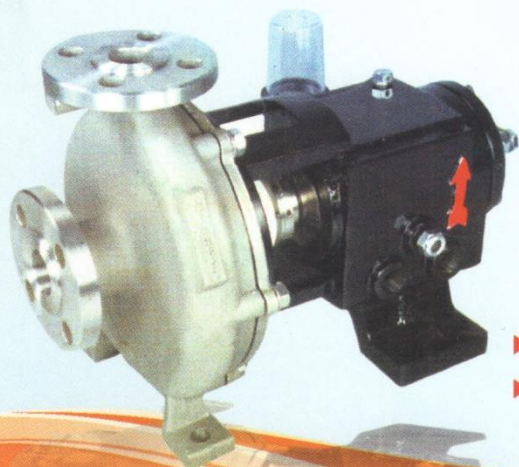
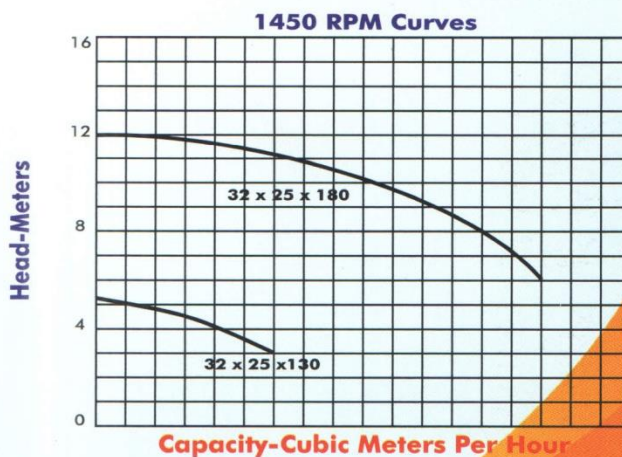
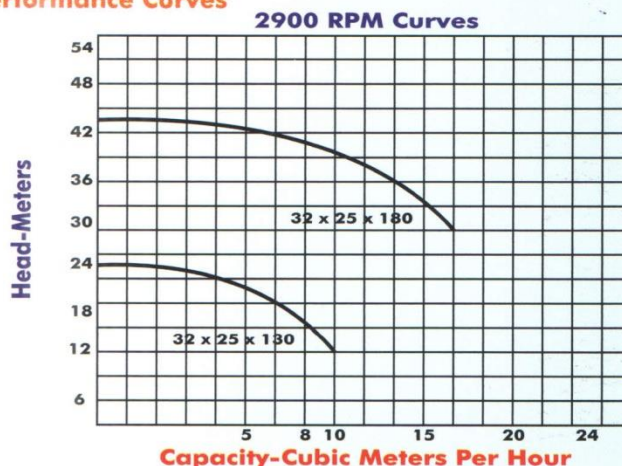
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Stuffing box cover

Encloses back of casing and contains stuffing box chamber. Cover is fastened to frame. Cover can be supplied with jacket for cooling stuffing box chamber in high temperature services. Jacket can also be used for heating viscous or high freezing point liquids.

Performance Curves



- ▶ Higher Efficiency
- ▶ Free From Casting Defect
- ▶ Better Surface Finish
- ▶ Faster Deliveries

MATERIAL OF CONSTRUCTION

Seal face :-

Carbon, Resin impregnated
Tungsten Carbide, Cobalt Bonded
Tungsten Carbide, Nickel Bonded
High Aluminium Ceramic (99.5)
Special Chrome casting
Chrome Oxide
Phosphorus Bronze
Silicon Carbide
Stellite
Ni-resist

Secondary Seal :-

Viton
Silicon Rubber
Neoprene Rubber
Perbunan Rubber
Baty Rubber
Glass filled PTFE (GFT)
Carbon filled PTFE (CFT)
Pure Graphite
Karlz
FEP
Klingrite

Spring and Hardware

Carbon Steel
Chrome Steel
Chrome Nickel Steel
Molybdenum Steel
Hastelloy-B
Hastelloy-C
Monel Metal
Alloy-20
Titanium
Inconel



All types of Mechanical Shaft Seals in all Sealing Materials

J.K. PUMPS SALES & SERVICES

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