IPD - PROFILE








END SUCTION CHEMICAL PROCESS PUMP

ECC Series

OPERATING DUTY

HEAD	:	198m
CAPACITY	:	1000 m3/hr
SPEED	:	2/4/ 6 POLES (50 HZ)
WORKING PRESSURE	:	20 bar
TEMPERATURE	:	(-30 to 180)deg C
SOLID SIZE	:	50 MM (MAX)

MOC OFFERED

CS | CF8 | CF8M | CF3M and Other HIGH ALLOY materials

CI / SS Fitted (Made to Order)

SALIENT FEATURES

ANSI B 73.1 pump with Flange to ANSI B 16.5 Class 150

Semi open impeller (Expeller type Optional)

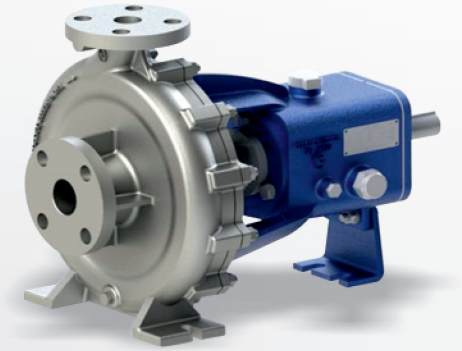
Back pull out design with Splash Oil Lubrication

Casing-stuffing box jackets | vertical spindle - optional

Sealing : M. Seal (Single & Double) & Gland packing

END SUCTION LOW FLOW CHEMICAL PROCESS PUMP

ECC Series



OPERATING DUTY

HEAD	:	Up to 60m
CAPACITY	:	Up to 15 m3/hr
SPEED	:	2 / 4 POLES
WORKING PRESSURE	:	10 bar
TEMPERATURE	:	(-30 to 180) deg C
SOLID SIZE	:	3 TO 6 MM (MAX)
FREQUENCY	:	Both 50 & 60Hz

MOC OFFERED

ALL SS Fitted
Other Material on Request

SALIENT FEATURES

Especially for low flow applications
Semi Open Impeller locking options threaded type
Shaft Sealing options (Gland packing, Single Mech. seal) (Common seal housing)
Flange confirms to ANSI B 16.5 Class 150
Back Pull Out Design
oil lubrication- Oil Bath Method
Integrated bearing frame

END SUCTION
PAPER / PULP & PROCESS PUMP
ECP Series

OPERATING DUTY

HEAD	:	up to 95 M
CAPACITY	:	up to 3600 m3/hr
SPEED	:	4|6|8 pole
CONSISTENCY	:	up to 8% & to 10% with Inducer
WORKING PRESSURE	:	10 bar
TEMPERATURE	:	180 deg C (max)
FREQUENCY	:	Both 50 & 60Hz
MAX SOLID SIZE	:	95 mm

MOC OFFERED

ALL SS Standard.
CI with SS Fitted (Made to order)

SALIENT FEATURES

Semi open impeller with Replaceable Suction Wear Plate
Splash Oil Lubrication
Shaft sealing both M. Seal & Gland packing (Common Seal Housing)
Flange Drilling to ANSI B 16.5 & Class 150.
Back Pull Out Design

END SUCTION PUMP - ECW Series

OPERATING DUTY

HEAD	:	Up to 160m
CAPACITY	:	up to 600 m3/hr
SPEED	:	2 / 4 / 6 POLES
WORKING PRESSURE	:	16 bar (Maximum)
DESIGN PRESSURE	:	1.5 X W.P (Minimum)
TEMPERATURE	:	-30 to 140 Deg C.
FREQUENCY	:	Both 50 & 60Hz

MOC OFFERED

ALL CI , CI With Bronze & CI With SS Impeller
ALL CF8, CF8M and STEEL ALLOYS.

SALIENT FEATURES

Design confirms to EN 733 and Flange drilling to ISO 7005 / DIN 2533 as per rating PN 16

High Efficiency with Closed Impeller and Casing + Stuffing Box Wear ring

Shielded Grease bearing

Shaft sealing M. Seal (Single component & Cartridge seal option) & Gland packing (Same Housing & Shaft. Only Sleeve change).

No gasket @ impeller & Sleeve. Replaced by O ring design and Serrated impeller nut

Stuffing box designed with internal cooling (Plan 01) of shaft sealing. External cooling (Plan 11) is optional.

CLOSE COUPLED PUMP - CCW Series

OPERATING DUTY

HEAD	:	Up to 90m
CAPACITY	:	up to 115 m3/hr
SPEED	:	2 / 4 POLES
WORKING PRESSURE	:	16 bar
TEMPERATURE	:	-30 to 140 deg C
FREQUENCY	:	Only 50 HZ
IMPELLER SIZE	:	125 TO 250 MM
POWER	:	Up to 45 KW

MOC OFFERED

All CI, CI/Bronze fitted and CI/SS fitted- All Models 43 Models
Stuffed Shaft in SS 410 Material Std.

SALIENT FEATURES

Flanges rating confirms to PN 16 and drilling as per DIN
Closed Impelled design with stub shaft.
Impeller Keyed & nut to Shaft.
Shaft sealing only Mechanical Option (Bellow Seal Single option)
Totally 215 Motor frame variations developed.

APPLICATIONS

Industrial pressure boosting, HVAC, Firefighting predominantly

VERTICAL INLINE SINGLE STAGE PUMP
VIL SERIES

OPERATING DUTY

HEAD	:	Up to 96m
CAPACITY	:	up to 503 (VC)/ 421 (VS) m3/hr
SPEED	:	2 / 4 POLES (VS 2 pole under Develop)
WORKING PRESSURE	:	16 bar
TEMPERATURE	:	130 deg C
FREQUENCY	:	50 HZ
INLET & OUTLET	:	40 to 200 MM
Power Range	:	90 KW (VC) and 75 (VS)
Motor	:	IP55, Class F

MOC OFFERED

ALL CI, CI With Bronze
Shaft & Sleeve in SS 410 Material. Bracket in CI.

SALIENT FEATURES

Easy mounting with Same suction & delivery size
Closed impeller & Occupies very less Space
Self lubrication by Internal Circulation & Provision for External Lubrication
Inside mounted Mechanical seal / Dry Seal
Flange rating confirms to DIN 2533 & PN 16

CONFIGURATIONS

VC- Closed coupled pump, VS- Split Coupled pump

END SUCTION MIXED FLOW PUMPS
ECM SERIES

OPERATING DATA

Flow	:	Max. 3600 m3/h
Head	:	Max. 45 m
Outlet size Range	:	DN 200mm to DN 450mm
Working Temperatures	:	Up to 60°C
Operating Pressures	:	Max. 16 bar
Speed	:	4/6/ Poles & both 50/60 HZ.

MOC OFFERED

All CI, CI With Bronze Impeller, All SS (Optional)
Other materials also Available on Request.

SALIENT FEATURES

Shaft sealing both M. Seal & Gland packing
Dimensions confirms to ISO 2858 Standard
Heavy duty bearings ensures longer life.
Back Pullout Design

Horizontal split case Pump - SCW SERIES

OPERATING DATA

Flow	:	Max. 30000 m3/h
Head	:	Max. 200 m
Working Temperatures	:	Up to 200°C
Operating Pressures	:	Max. 16 / 20bar
Maximum Power	:	3150 KW
Speed	:	2 /4/6/ Poles & both 50/60 HZ.

MOC OFFERED

DCI, CI With CI/Bronze Impeller, SS Fitted (Made to order)
Other materials also Available on Request.

SALIENT FEATURES

Robust double volute casing for High flow & head.
High Efficiency with double suction Closed Impeller
Shaft sealing both M. Seal (Cartridge) & Gland packing (Common Seal Housing)
Designed with replaceable casing wear rings, and optional impeller wear rings.
Deep groove ball bearing at both the sides results in low shaft deflection
Flange drilling standards to DIN/ISO & ANSI.
Direction of rotation is clockwise/Anticlockwise viewed from driver.
Grease lubrication as standard.
Seal Housing common for drive & non drive end

Vertical Turbine Pump - VT Series

Operating Parameters

Capacity : 12000 m3/hr
Head : Upto 200 Mtrs

Material of Construction

All CI, NICI and Steel Alloys

Applications

Primarily used in places where it is impossible to use submersible pump.
Used in bore wells to provide agricultural or irrigation.
Ground water supplies for municipalities that don't rely on surface water
Fire water for industrial plants
Open body of water such as a reservoir, river or pump intake structure.

Few advantages

Space savings – a vertical pump uses 75% less floor space than a horizontal pump with electric motor drive.

Driver is up off the floor, therefore there is less danger of damage due to flooding.

Adaptable to wide range of water supplies and different water levels. Column length can be varied to fit application and tailored to fit any water level situation (floods, tides), off shore platforms, rivers, wells, reservoirs, ponds.

VERTICAL MULTISTAGE INLINE PUMP
MV SERIES

Performance Range / Operation Limits

Flow	:	Max. 30000 m3/h
Head	:	Max. 200 m
Working Temperatures	:	Up to 200°C
Operating Pressures	:	Max. 16 / 20bar
Maximum Power	:	3150 KW
Speed	:	2 /4/6/ Poles & both 50/60 HZ.

Applications

Pressure Boosting.
Pumping Clean Liquid in Industries.
Reverse Osmosis & DM Plant.
Boiler Feed.
Fire Fighting
Hot & Cold Water Circulation.
Industrial Washing.

VERTICAL SUMP PUMPS

Advantages

No Priming Requirements
Occupies less Space
Reduced foundation costs
Increased System Reliability
Promotes a safer work environment
Eliminates pressurized seal area & Seal wear.

Salient features

Maximum standard sump depth up to 7m. Higher depth can be offered on case to case basis.
External shaft adjustment allows for simplified (top side) impeller clearance adjustment
Direct Motor driven with fixed Rpm and Variable RPM with belt and pulley driven.
Circular / Rectangular Top mounting plate
With / Without Gland Packing , Mechanical Seals
With / Without external cooling
Setting heights from 0.5m to 7 meter with 0.5m increment

Material of Construction

The Vertical Cantilever pumps can be offered in:
ECC, ECW, & ECP Series.

BOOSTING SYSTEM

BOOSTING- System Salient Features

Variable Frequency Drive (VFD) and Programmable logic controller (PLC) to regulate the speed of the duty pump as deliver required flow rate and maintain constant pressure.

The complete system mounted on a single rigid base and factory tested, ensures the reliability of the system functions.

High operating efficiency of the system.

Dust Suppression Pump

Model IW 36

SIZE : 100x80x250

Duty parameters

Flow & Head: 180 m ^ 3/h @ 80 m