



PUMPS FOR PROCESS INDUSTRY





C.R.I. PUMPS

Pumping trust... Worldwide.

T H E B E G I N N I N G

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an in-house foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 1500 varieties of perfectly engineered pumps and motors and sells its products in numerous countries spread across 6 continents.

C . R . I . I S O N E A M O N G

the few pioneers in the world to produce 100% stainless steel submersible pumps. Having achieved a record production capacity of over 2 million pumps per annum, today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

T H E I N F R A S T R U C T U R E

of C.R.I. is pretty comprehensive with state-of-the-art machineries and high potential in-house R&D recognised by the ministry of science and technology, Govt. of India - all within its own covered area of 300,000 square metres. The production environment is accredited with ISO 9001 & 14001 certifications and the products are CE, UR/UL, IEC, TSE & ISI certified. The R&D team always stays in tune with the changing scenario and seldom fails in coming up with outstanding solutions every time.

N E E D L E S S T O S A Y ,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos: " Commitment, Reliability, Innovation".





PROCESS PUMPS

ECC SERIES - ANSI B73.1



SPECIFICATIONS

Max. Flow	: 720 m ³ /h
Max. Head	: 110 m
Max. Power	: 150 kW
Max. Pressure	: 16 bar
Speed in rpm	: 950 / 1480 / 2900
Max. Solid Handling	: 50 mm
Max. Temperature	: 260° C*

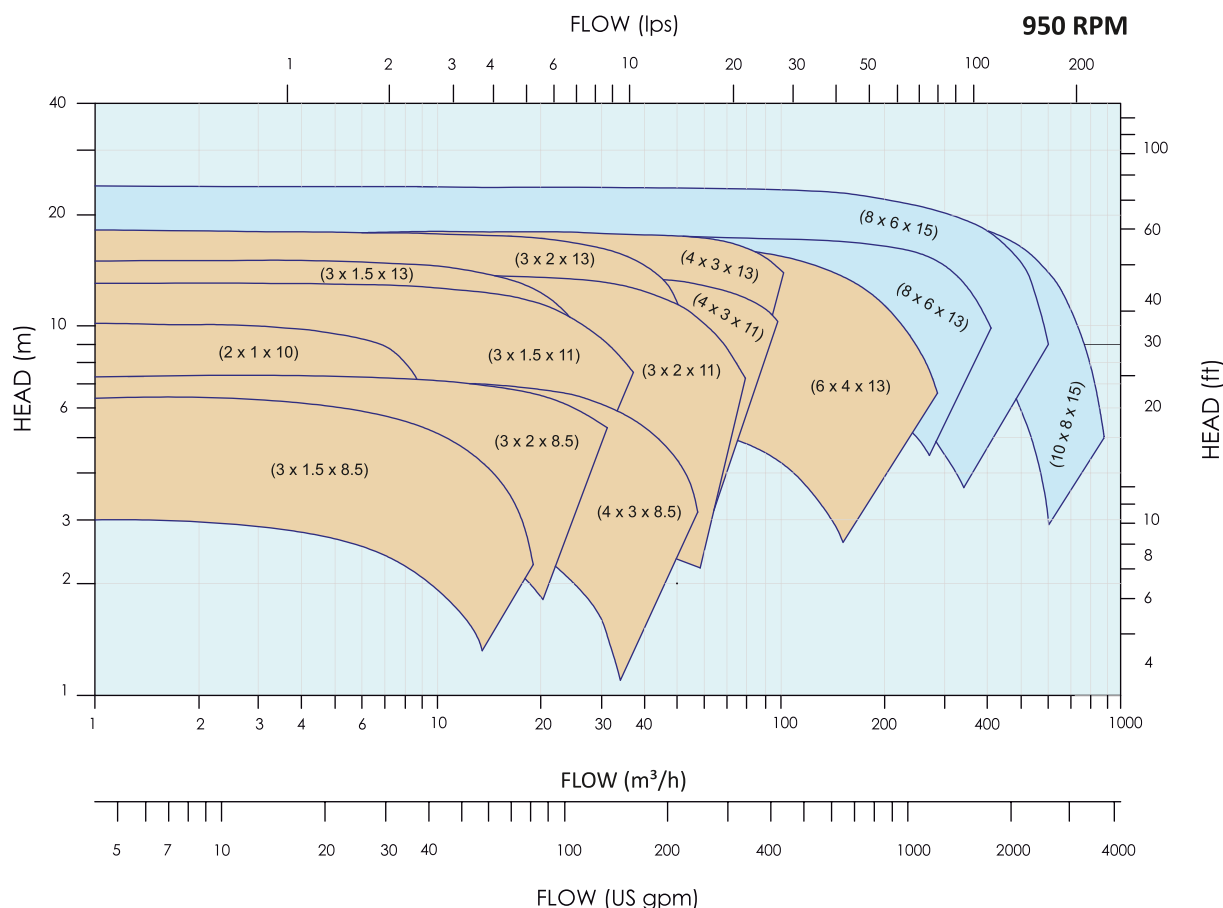
*Confirm with manufacturer before ordering

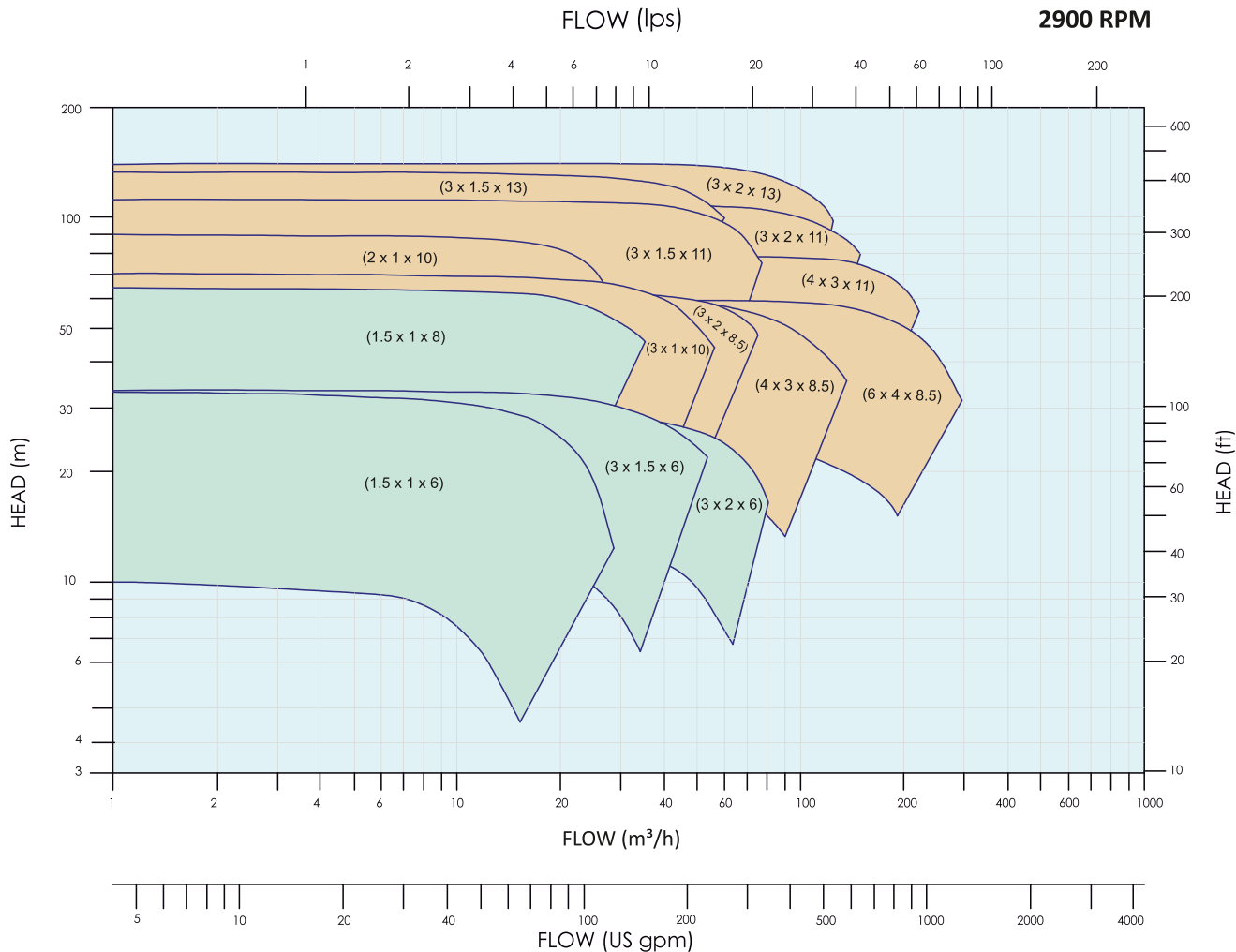
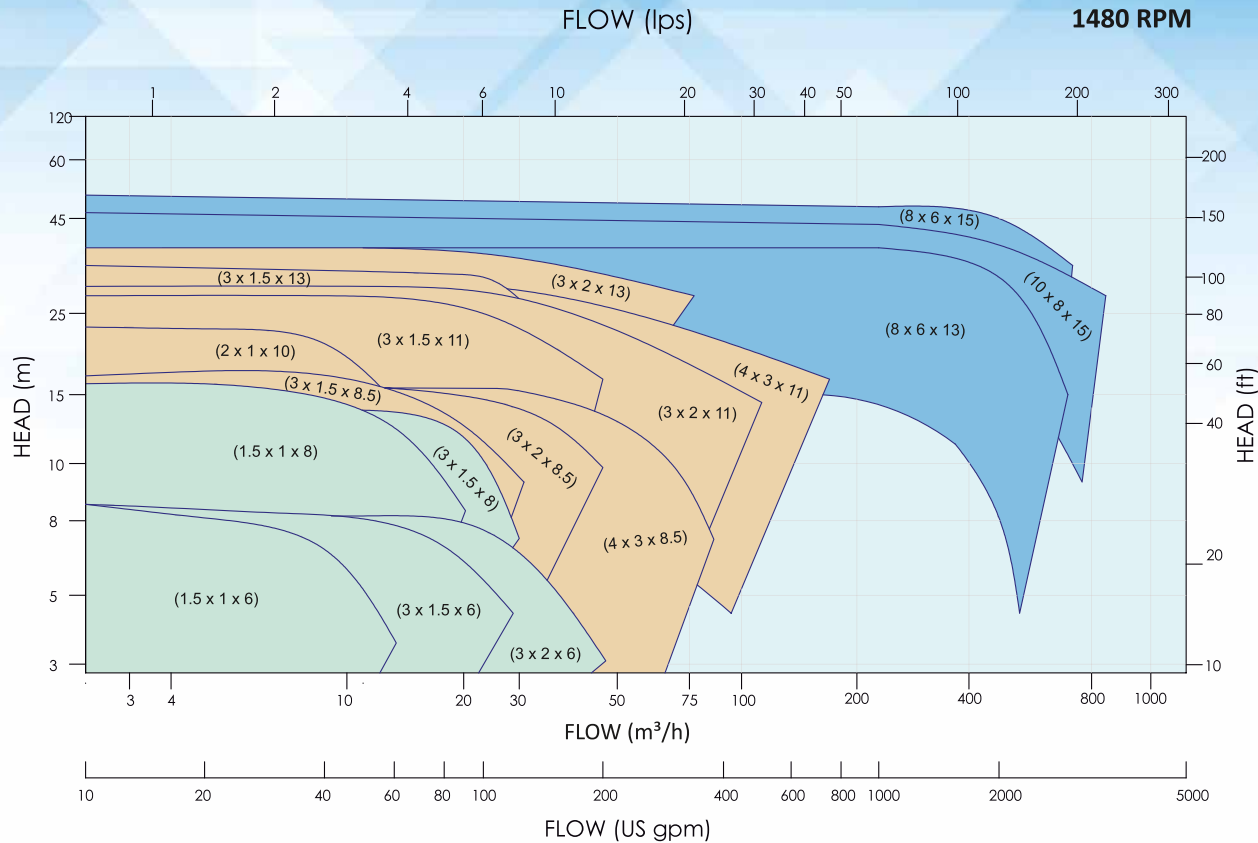
APPLICATIONS

| Handling Organic & Inorganic liquids | Chemical & Process Transfer | General Refinery Services | Erosive
 | Corrosive liquids | Demineralised water | Condensates
 | Distillation Plant liquids | liquors

SALIENT FEATURES

- Back pull out design with splash oil lubrication
- Semi open impeller for handling chemical slurries
- Impeller axial adjustment with shims
- Special Jacket provision for hot liquids
- Gland and mechanical seal options
- Various material options
- Patent design of Connecting Frame integrated with bearing cover







PROCESS PUMPS

IL SERIES



SALIENT FEATURES

- Patented for it's design
- Semi Open Impeller
- Common Seal housing for Gland Packing & Mechanical Seal
- Flange conforms to ANSI B 16.5 Class 150
- Back pull out design with splash oil lubrication
- Integrated bearing frame

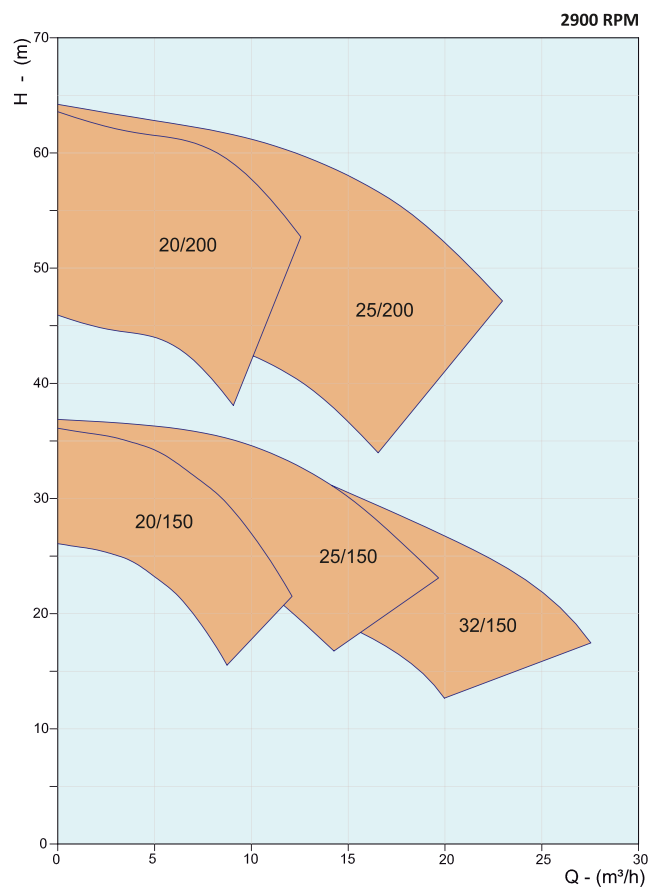
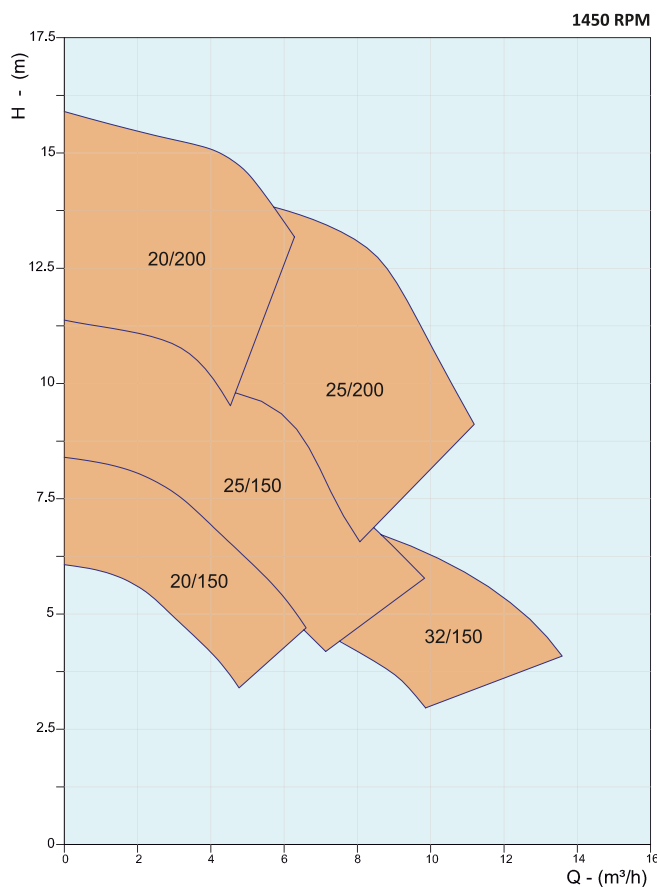
SPECIFICATIONS

Max. Flow	: 23 m ³ /h
Max. Head	: 64 m
Max. Power	: 7.5 kW
Max. Pressure	: 10 bar
Max. Liquid Temp	: 120° C
Speed in rpm	: 1450 / 2900
Max. Outlet Size	: 32 mm

APPLICATIONS

Pharmaceuticals | Sewage Treatment Plants | Evaporator
 Food Industries | Textile Industries | Chemical Industries

PERFORMANCE CURVE





WATER & PROCESS PUMPS

ECW SERIES - EN 733

SALIENT FEATURES

- Patented design - Serrated & double flat Impeller nut
- Patented design - Stuffing box for Efficient cooling
- Designed to allow interchangeability of components across the pump sizes.
- Minimized shaft deflection prolong the life of the mechanical seal and bearing.
- Back pull out design facilities dismantling the pumps without disturbing the Piping
- Dimensions and characteristics according to DIN 24255 standards
- Available both in mechanical seal and soft packed stuffing box design.
- Optimized performance and maximum efficiency reduce the operating cost.
- Low noise & vibration levels lead to be environment friendly.



SPECIFICATIONS

Max. Flow : 550 m³/h
 Max. Head : 100 m
 Max. Liquid Temp : 90° C
 Max. Pump Size : DN 150

MATERIAL OF CONSTRUCTION*

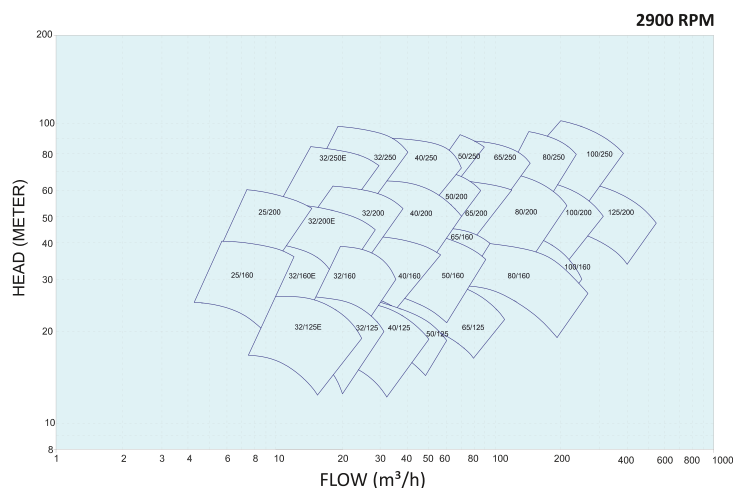
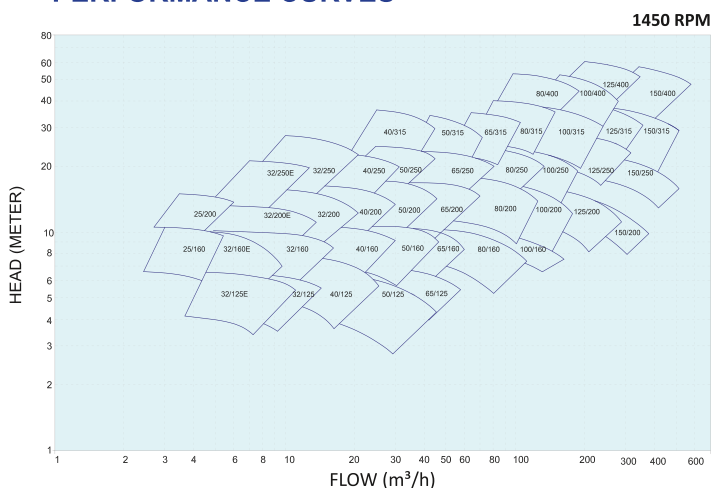
Pump Casing : C.I. / CF8 / CF8M
 Impeller : C.I. / BZ / CF8 / CF8M
 Shaft : SS 410 / SS 304 / SS 316

*Other MOC available on request

APPLICATIONS

Process industries | Water Supply | HVAC | Modern Irrigations
 Pressure Boosting | Industrial Utility | Fire Fighting | Cooling Towers

PERFORMANCE CURVES





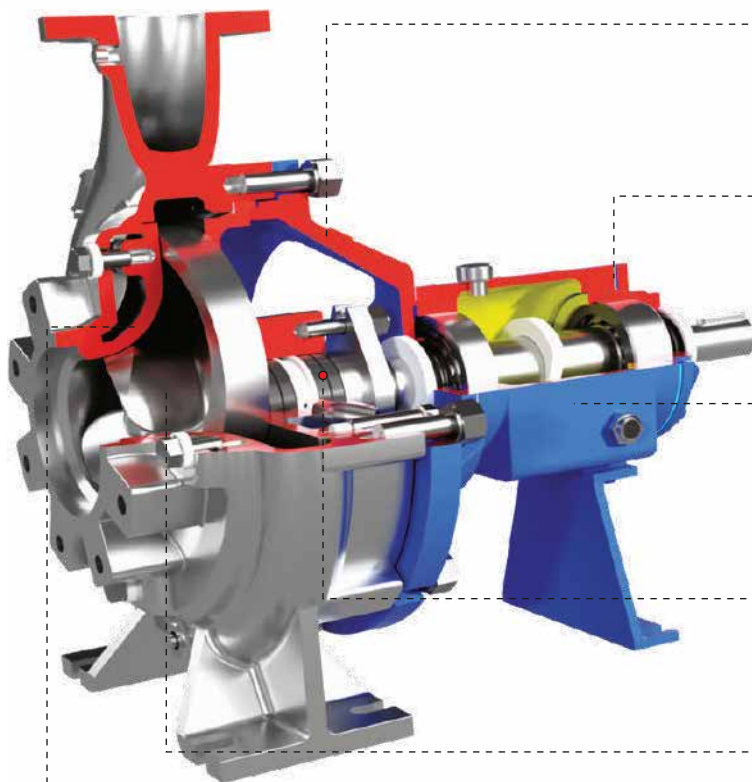
END SUCTION PROCESS PUMPS ECP SERIES

APPLICATIONS

Paper stock | Fibrous pulp & effluent
 Fibrous effluent | Waste water
 | Dewatering & de-inking
 Solid entrained liquor | Chemical / process liquor
 Food process | Sugar process | Abattoir



SALIENT FEATURES



Integrated connecting frame*with Bearing cover - **Reduce component & enhance reliability**



External Shim set arrangement for impeller clearance adjustment - **Restores pump efficiency**

Large oil sump with Oil mist / Oil bath lubrication - **Increases MTBF**



Graphite Impregnated PTFE / Single or Double Mechanical seal - **Environment Safety**

Bull nose type open impeller - **Low NPSH and avoids risk of clogging**

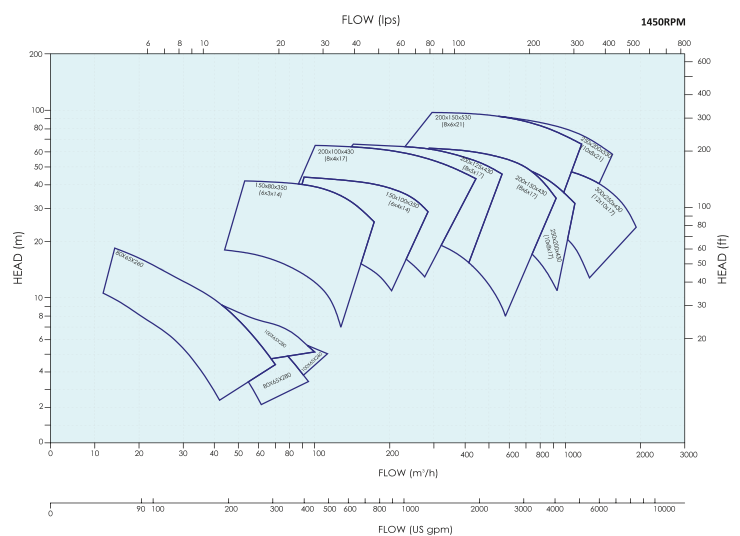
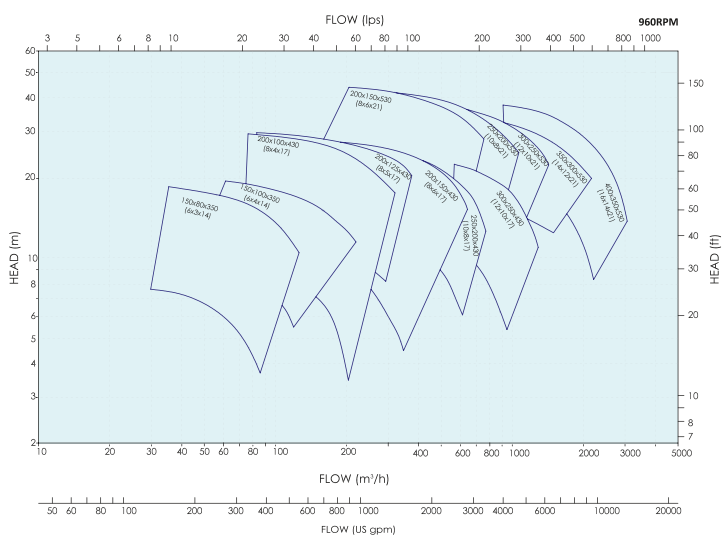
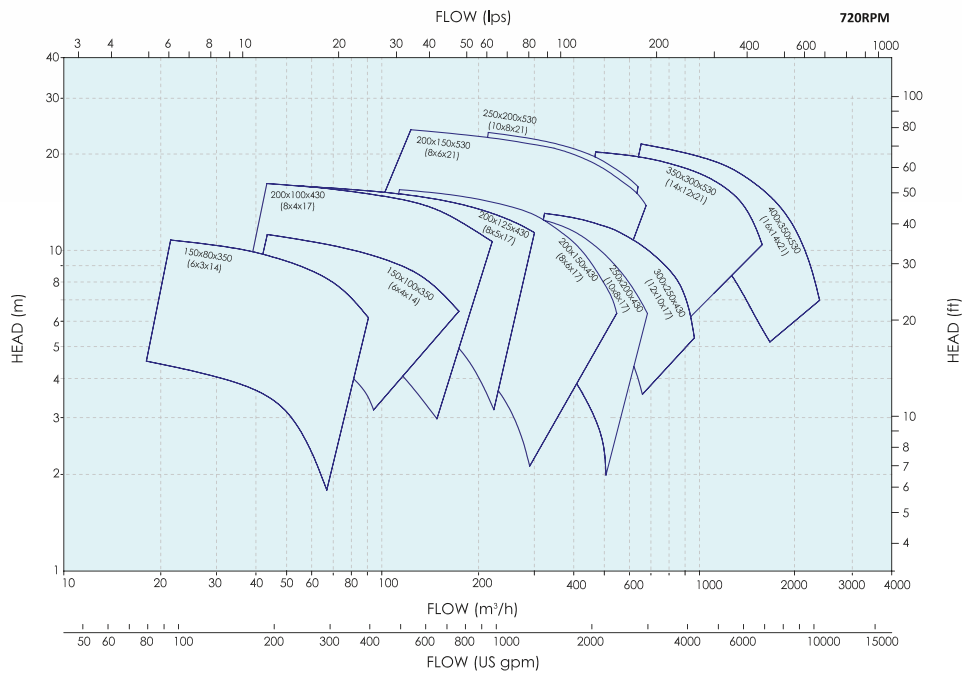
Accurately contoured Suction wear plate - **Prolonged wear life**

- 12 pump sizes with 3 bearing frame assembly ensures spare parts interchangeability, reducing inventory cost
- Additional corrosion allowance for extended wear life
- Vertical sump configuration also available

SPECIFICATIONS

Max. Flow	:	2500 m ³ /h
Max. Head	:	100 m
Max. Power	:	315 kW
Max. Pressure	:	16 bar
Max. Liquid Temp	:	140° C*
Speed in rpm	:	960 / 1450
Max. Solid Size	:	95 mm
Max. Outlet size	:	350 mm

*Confirm with manufacturer before ordering



VERTICAL MULTISTAGE INLINE PUMPS

MV / MVNB SERIES

SALIENT FEATURES

- Stainless steel impellers, shaft and stage casings (SS 304 / SS 316)
- All single phase motors are fitted with thermal motors protector
- Strengthened cartridge seals
- Enhanced hydraulic efficiency
- Good compatibility and environment friendly
- Low noise level and low vibration level

APPLICATIONS

Water pressure boosting | Residential Buildings | Apartments | Bungalows | Cottage & Villas | Schools | Hospitals | Industries | Liquid transfer | Sprinkler irrigation systems | etc.,

SPECIFICATIONS

Max. Flow	: 200 m ³ /h
Max. Head	: 300 m
Max. Power	: 110 kW
Max. Liquid Temp	: 120° C

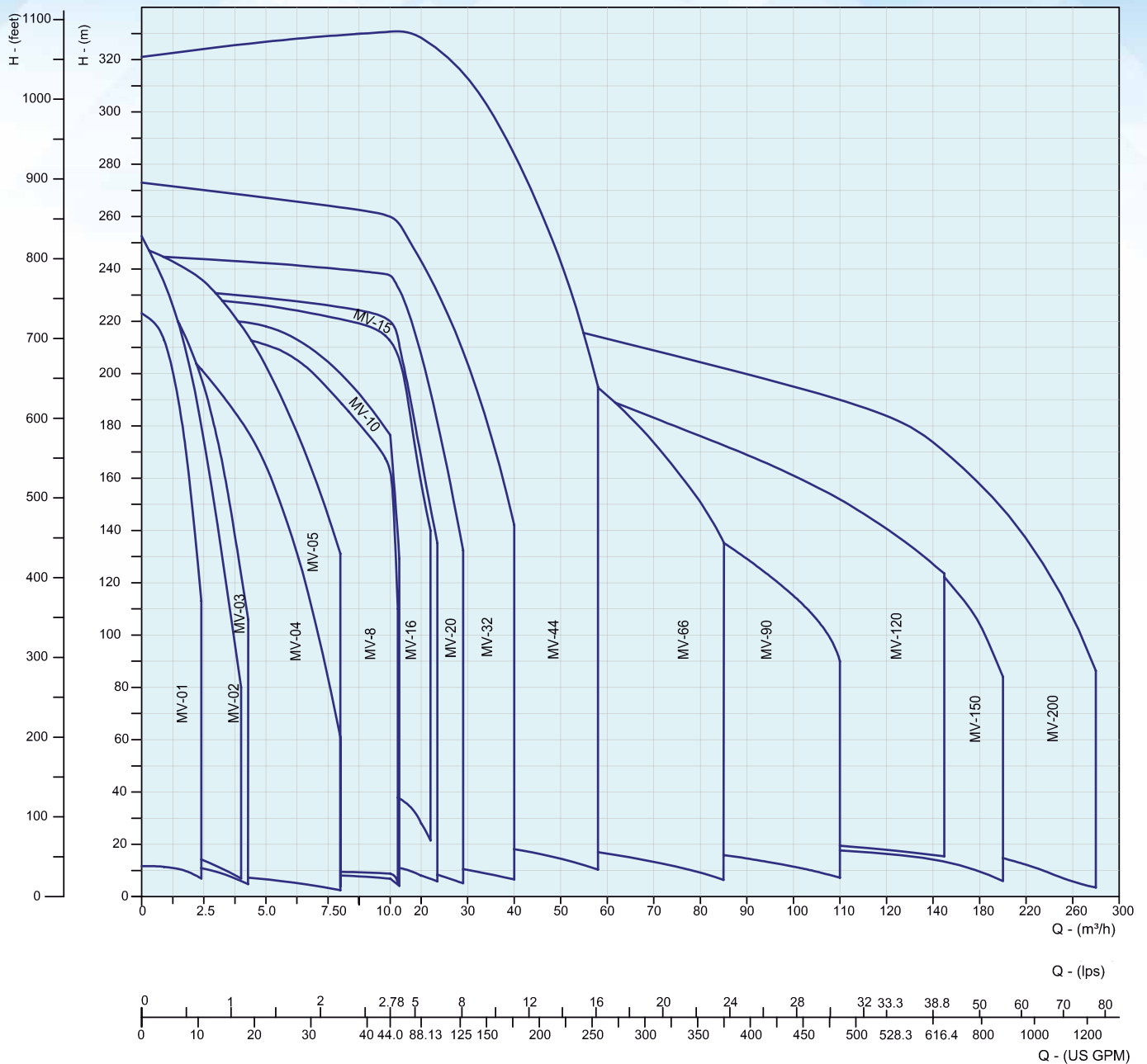


MATERIALS OF CONSTRUCTION

Part Name	Type-C	Type-S	Type-N
Outer Shell	SS 304	SS 304	SS 316
Pump Head	CI	SS 304	SS 316
Pump Base	CI	SS 304	SS 316
Base Plate	-	CI	CI
Impeller	SS 304	SS 304	SS 316
Diffuser (Chamber)	SS 304	SS 304	SS 316
Pump Shaft	SS 304 / SS 431	SS 304 / SS 431	SS 316 / SS 329
Bearing Ring	SiC Carbide & Tungsten Carbide	SiC Carbide & Tungsten Carbide	SiC Carbide & Tungsten Carbide
Mechanical Seal	SiC Vs SiC Vs Viton / T.C Vs Car Vs Viton*		

*Other Combinations on Request

PERFORMANCE CURVES



Curve tolerance according to ISO : 9906, Annex - 2B.

In view of continuous developments, The Information / Specifications / Descriptions / Illustrations are subject to change without notice.



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