

A SUBSIDIARY OF TECHINOVA ENGINEERING ANALYSIS SERVICES LLP



TO SERVE THE ENGINEERING SECTOR



MFG. UNIT:

Gut No 353, Bhiwandi Wada Road, Musarne, Wada, Palghar 421312



www.techinova.net.in



Salil Padhy 8334081626



innotech@techinova.net.in



SINGLE STAGE END SUCTION PUMPS

CENTRIFUGAL PUMPS

Capacities to 4200 gpm (954 m³/hr)

Heads to 520 feet (158 meters) Temperatures to 300°F (149°C)

Setting New Standards of Efficiency

This is delivering over a century of innovation for constant peace of mind. Our years of experience in the design, sales and manufacturing of centrifugal pumps has Liquid handling requirements have evolved over the years and have increased along with temperatures and pressures. Today's installations demand sturdy but quiet, smooth running pumps with longer life cycles. These modern pumps with a clean, straightforward and updated design were developed with upgraded materials of construction and a simplified offering without limiting ranges and keeping maximum interchangeability in mind.

These pumps not only exceed U.S. Department of Energy (U.S. DOE) pump efficiency standards, but also feature shared hydraulics and premium materials as standard offering. The new series offer industry-leading durability and reliability to support your liquid handling needs.

STANDARD FEATURES

- Offered in two configurations:
- → 3801 Close coupled
- → 3804 Flexible coupled-frame mounted
- Ductile Iron ASTM A536 Casings provide higher strength and durability
- Flange dimensions match the largest installed base for maximum interchangeability
- 316 Stainless Steel impellers and shaft sleeves provide less corrosion, additional chemical resistance and durability
- Vertical In-line Pumps to streamline parts inventories
- ♦ Heavy duty power frames with bearing life of 100,000 hours
- Double volute on some 4" and all 5" and larger discharge to reduce bearing loads and increase durability. Note: Not available on 4x5x11 and 4x5x13.5. Note: Single volute also available.
- Gauge taps on suction and discharge on flanged models
- 4 Power frame sizes
- Standard back pullout design reduces downtime
- Internal self-flushing mechanical seal for continuous lubrication and extended durability, eliminates the need for exterior lubricating and tubing
- Regreaseable bearings
- Coupling guard
- Working pressures up to 175 PSI
- Rigid base plate design
- NSF 372 listing standard



CLOSE COUPLED

OPTIONAL FEATURES

- 316 Stainless Steel shaft
- Unique drip rim base that is easier to grout than fabricated bases
- Drip pan
 Braided hose of Stainless Steel construction
- Epoxy coating for NSF50
- Several mechanical seal options for maximum temperatures up to 275°F
- Oil lube bearings
- 416 Stainless Steel case wear ring
- Certified performance testing

APPLICATIONS

- HVAC Systems
- Boosting
- Chilled and Hot Water
- Commercial Pools
- Industrial Uses
- Municipal

Pump Sizes		
1.5x2x11	2x2.5x9.5	
2x3x11	2.5x3x9.5	
3x4x11	3x4x9.5	
4x5x11A	4x5x9.5	
5x6x11	5x6x9.5A	
6x8x11A	6x8x9.5*	
1.25x1.5x7	2x3x13.5	
1.5x2x7	2.5x3x13.5	
2x2.5x7A	3x4x13.5	
2.5x3x7	4x5x13.5	
3x4x7A*	5x6x13.5	
4x5x7A*	6x8x13.5	
5x6x7*	8x10x13.5	
1.25x1.5x9.5	1.5x2x12	
1.5x2x9.5		



A. Standard JM and JP motors

Provide low noise level pump operation.

B. Ductile Iron casing

Long life with higher working pressures.

C. Factory Hydro test

Guarantees casing and seal integrity.

D. Double volute discharge

On some 4" and all 5" and larger discharge to reduce bearing loads (exceptions: 4x5x11 and 4x5x13.5).

Note: Single Volute also available nge matching largest installed base.

D. Double volute discharge

On some 4" and all 5" and larger discharge to reduce bearing loads (exceptions: 4x5x11 and 4x5x13.5).

Note: Single Volute also available

E. Suction splitter

On some 4" and all 5" and larger suction to eliminate pre-rotation.

F. Casing feet for easy back pull out

Allows servicing of pump without disturbing suction and discharge pipelines.

G. Gauge taps on suction and discharge flanges

H. Mechanical seal

has carbon against ceramic face for optimum hot water performance. Long life is assured with 303 SST metal parts and Buna-N flexible elastomers.

I. Shaft sleeve

o protect the motor shaft.

J. Stainless Steel

Keyed to shaft extension and secured by a cap screw and washer. Gaskets are used to prevent leakage to shaft end.

K. Optional casing wear rings

flange to flange matching largest installed base.



FLEXIBLE COUPLED

Standard T and TS base type motors
Provide low noise level pump operation.

A. Ductile Iron casing
Long life with higher working pressures.

B. Factory Hydro testGuarantees casing and seal integrity.

C. Double volute discharge
On some 4" and all 5" and larger discharge to reduce bearing loads.

Note: Single Volute also available

D. Suction splitterOn some 4" and all 5" and larger suction to eliminate pre-rotation.

E. Casing feet for easy back pull out
Allows servicing of pump without
disturbing suction and discharge
pipelines.

F. Gauge taps on suction and discharge flanges

G. Mechanical seal

has carbon against ceramic face for optimum hot water performance. Long life is assured with 303 SST metal parts and Buna-N flexible elastomers.

H. Shaft sleeve to protect the pump shaft.

I. Stainless Steel impeller keyed to shaft extension and secured by a caps crew and washer. Gaskets are used to prevent leakage to shaft end.

- J. Optional casing wear rings
- K. Re-grease able bearings
- L. Stainless Steel shaft
 Designed for minimum deflection.
- M. Heavy duty power frame
 With re-greaseable bearing for 100,000 hours.
- N. Optional seal materials

 Flange to flange matching largest installed base.

PUMP FEATURE

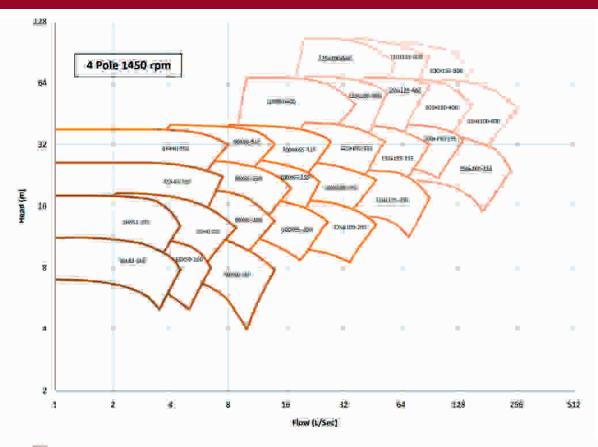
Maximum Lamination Based On Standerd Materials And Pumping Clear Water

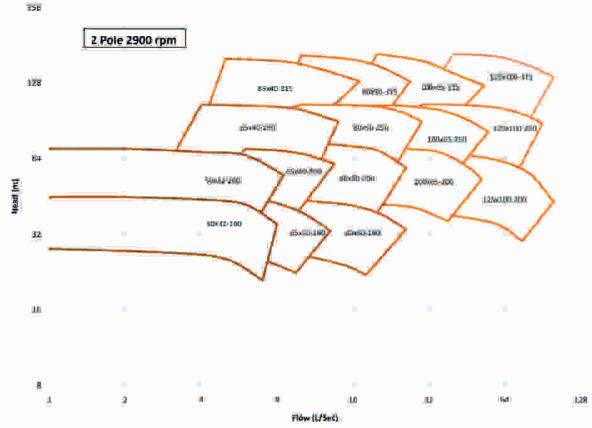
RPM	Flow Range	Head	Power
2900	15 to 400 m ² /HR	150 m.	280 HP
1450	10 to 500 m ³ /HR	100 m.	390 HP

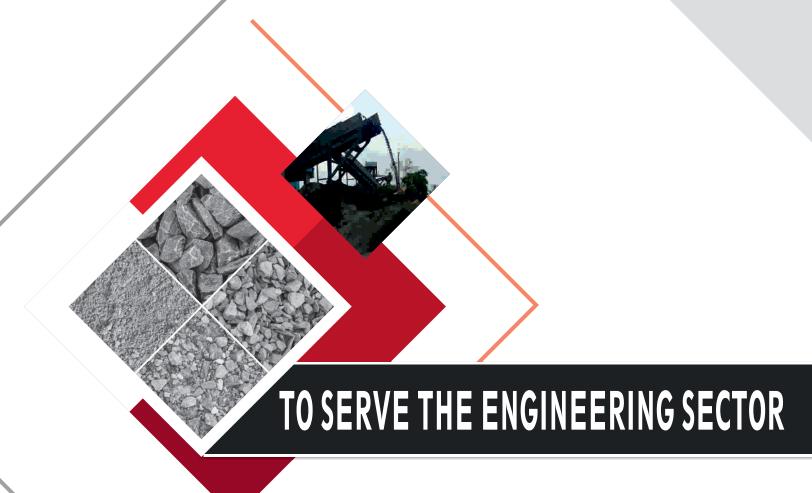
Pump Part	Stainless Steel Impeller Fitted	
Casing	Ductile Iron ASTM A536	
Impeller	Stainless Steel ASTM A743 Type 316	
Seal plate/motor bracket	Cast Iron ASTM A48	
Shaft	Stainless Steel AISI C1045	
Sleeve	Stainless Steel ASTM A743 Type 316	
Power frame	Cast Iron ASTM A48	
(PF1, PF2, PF3 or PF21A)		
Mechanical seal		
Washer	Carbon	
Seat	Ceramic	
Elastomer	Buna-N	
Metal Parts	303 SST	
Spring	303 SST	



PUMP FEATURE









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