LOVA-TECH® INDUSTRIES

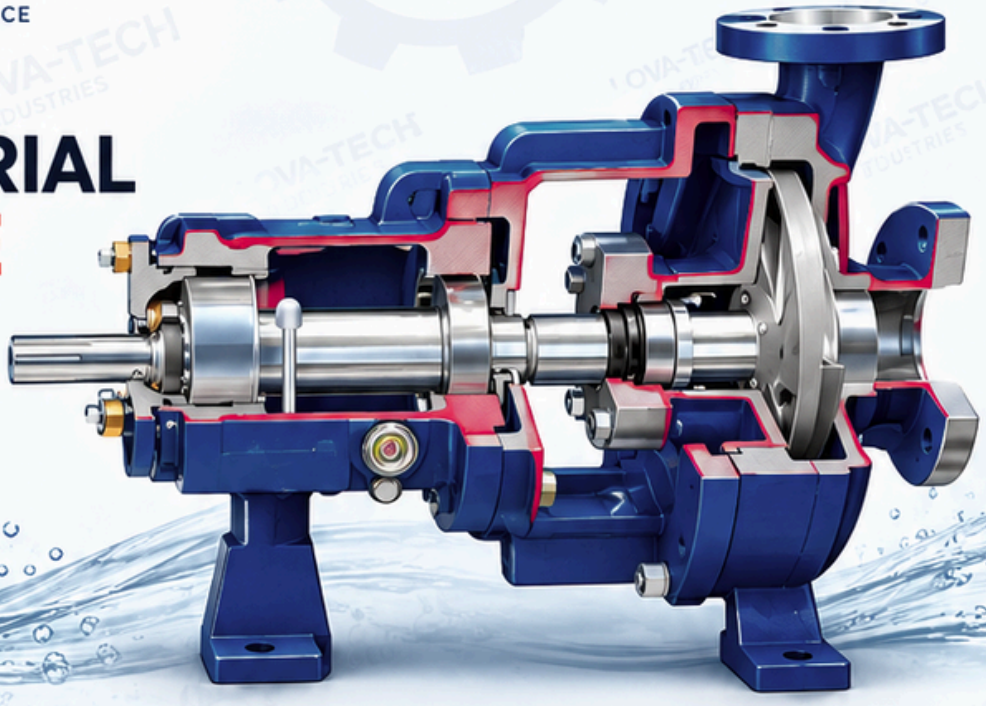
Since 2005

Reliable Pumps for a Stronger Tomorrow

PRECISION | DURABILITY | PERFORMANCE

ENGINEERED FOR INDUSTRIAL EXCELLENCE

High-quality industrial pumps designed to deliver reliable performance, greater efficiency and long service life in demanding applications.



RUGGED CONSTRUCTION
Built for tough conditions

HIGH EFFICIENCY
Optimized design for better output

LONG SERVICE LIFE
Engineered for maximum reliability

EASY MAINTENANCE
Reduced downtime & lower cost

WIDE APPLICATIONS
Multiple industries, multiple solutions

OUR CENTRIFUGAL PUMPS



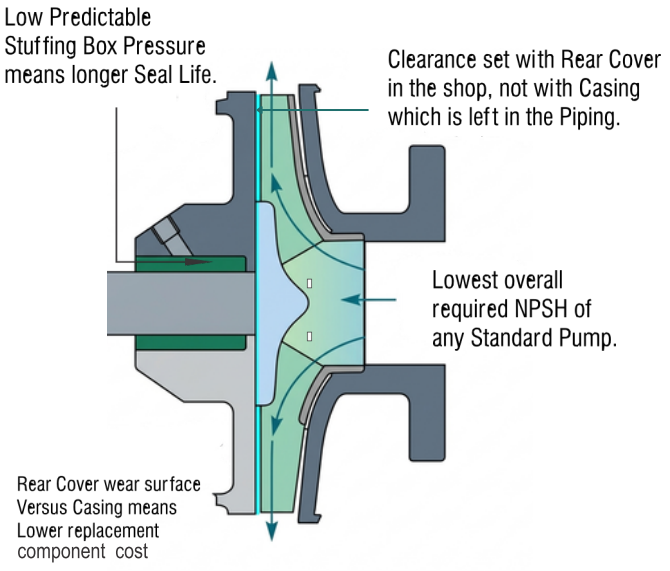
Chemical | Petrochemical | Pharmaceutical | Water & Wastewater | General Industry

Your Partner in Fluid Solutions

sales@lovatechindustries.com | www.lovatechindustries.com

E-mail : sales@lovatechindustries.com
Website : www.lovatechindustries.com

PUMPS IMPELLERS



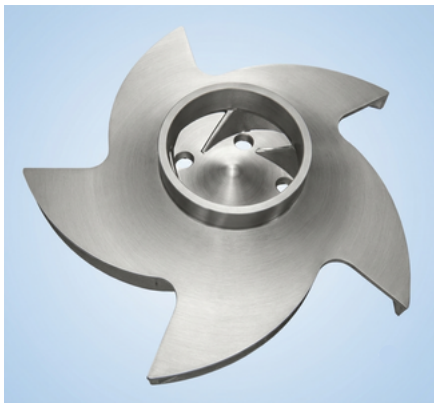
Unique Advantages of Reverse Vane Impeller

Reverse Vane Impeller (semi open) deliver Unequalled Efficiency and Performance. This Exclusive Impeller Design Extends Bearing as well as Seal Life.

- **Low, Predictable Stuffing Box Pressure and Thrust Loads -** Resulting from Back Vane Pumping Action and Balance Holes.
- **Low Required NPSH -** Provides Efficient Pumping even in marginal NPSH conditions minimizing cavitation problums.
- **Stuffing Box Cover Wear Surface -** as the Flow Path exits at the Rear of the Impeller, thus Abrasive Wear on the Rear Cover rather than on more Expensive Casing.
- **In-shop Impeller Adjustment** with the only Impeller Design that takes full advantage of the back pull out feature. Since the critical running clearance is set between the Rear of the Impeller and the Rear Cover. Both Impeller and Mechanical Seal settings can be done in the Shop, "on the bench," instead of under adverse field conditions.
- **Repeatable Performance Assurance -** with the only Impeller Design that offers repeatability in Seal Chamber Pressure and Bearing Thrust Loads.

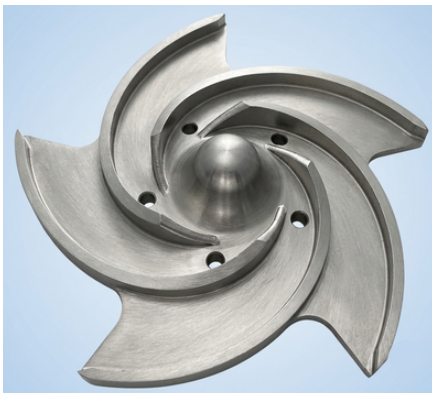


In-shop Impeller Adjustment...practical as well as productive!



Exclusive Reverse Vane Impeller
With balance holes offers improved performance and reducing maintenance time.

The only ASME Pump Impeller Design that offers repeatable Pump performance throughout the life of the Pump.





Inpro VBX bearing isolator
(ASME 3A Power- End)

Fastest Maintenance Turnaround Time

- Micrometer type Shaft and Impeller Adjustment Accurately Sets Impeller clearance to rear cover in 20 seconds...in the shop or Field.
- Mechanical Seals and all critical settings can be accurately set in the shop or field.

Recognized Worldwide as the Premier Name in ASME Chemical Process Pumps
The advanced design and precision manufacture of the rugged, heavy-duty Mark III Chemical service Pump significantly Enhances Bearing and Seal Life.

It is committed to help users maximize mean time between planned maintenance (MTBPM).

The Unique Features and Enhancements of Durco - Microfinish Pumps provide significant Performance benefits for Pump users.

A Choice of Power Ends

- Standard Mark III Power Ends with oil seals.
- ASME 3A Power Ends (shown here) featuring Inpro VBX bearing isolators and up to a three-year performance guarantee.

Truest Running ASME Pump

- Four precision machined metal-to-metal fit locations. (See on page 6 & 7) Other manufacturers offer only two or three machined fits.
- Precision machined metal-to-metal cap bearing housing reduces stack-ups to improve shaft concentricity.
- Superior to jackscrew designs which can cause cocking.
- Extends bearing and Mechanical Seal Life.

The Mark III ASME Standard Process Pumps cover a broad hydraulic range.

Twenty Nine Sizes

- Two (2). Group 0-K
- Five (5). Group 1K
- Fifteen (15). Group 2K
- Seven (7). Group 3K

Capacities

- 0.6 m^3/h to 1390 m^3/h

Head

- 3 m to 152 m

(See pages 3 & 4 for Component Interchangeability & Performance Data.)

E-mail : sales@lovatechindustries.com
Website : www.lovatechindustries.com

LOVA TECH INDUSTRIES PUMP INTERCHANGEABILITY

LOVA TECH SERIES M-0
Two Standard Models

One Power-End
Two Rear Covers
Two Impellers
Two Casings



CBS
CBL or FML
CBS
CBL or FML

Open RV

1½ x 1-5
1½ x 1-6

LOVA TECH - M-1
Five Standard Models

One Power-End
One Rear Cover
Five Impellers
Five Casings



CBS
CBL or FML

Open RV

1½ x 1 - 6
3 x 1½ - 6
3 x 2 - 6
1½ x 1 - 8
3 x 1½ - 8

LOVA TECH - M-3
Seven Standard Models

One Power-End
Three Adapters
Three Rear Covers
Seven Impellers
Seven Casings



CBS
CBL or FML
CBS
CBL or FML
CBS,CBL or FML

Open RV

8 x 6 - 14A
10 x 8 - 14
6 x 4 - 16
8 x 6 - 16A
10 x 8 - 16
10 x 8 - 16H
10 x 8 - 17

LOVA TECH - M-2
Fourteen Standard Models

One Power-End
Three Adapters
Three Rear Covers
Fourteen Impellers
Fourteen Casings



CBS
CBL or FML
CBS
CBL or FML
CBS
CBL or FML

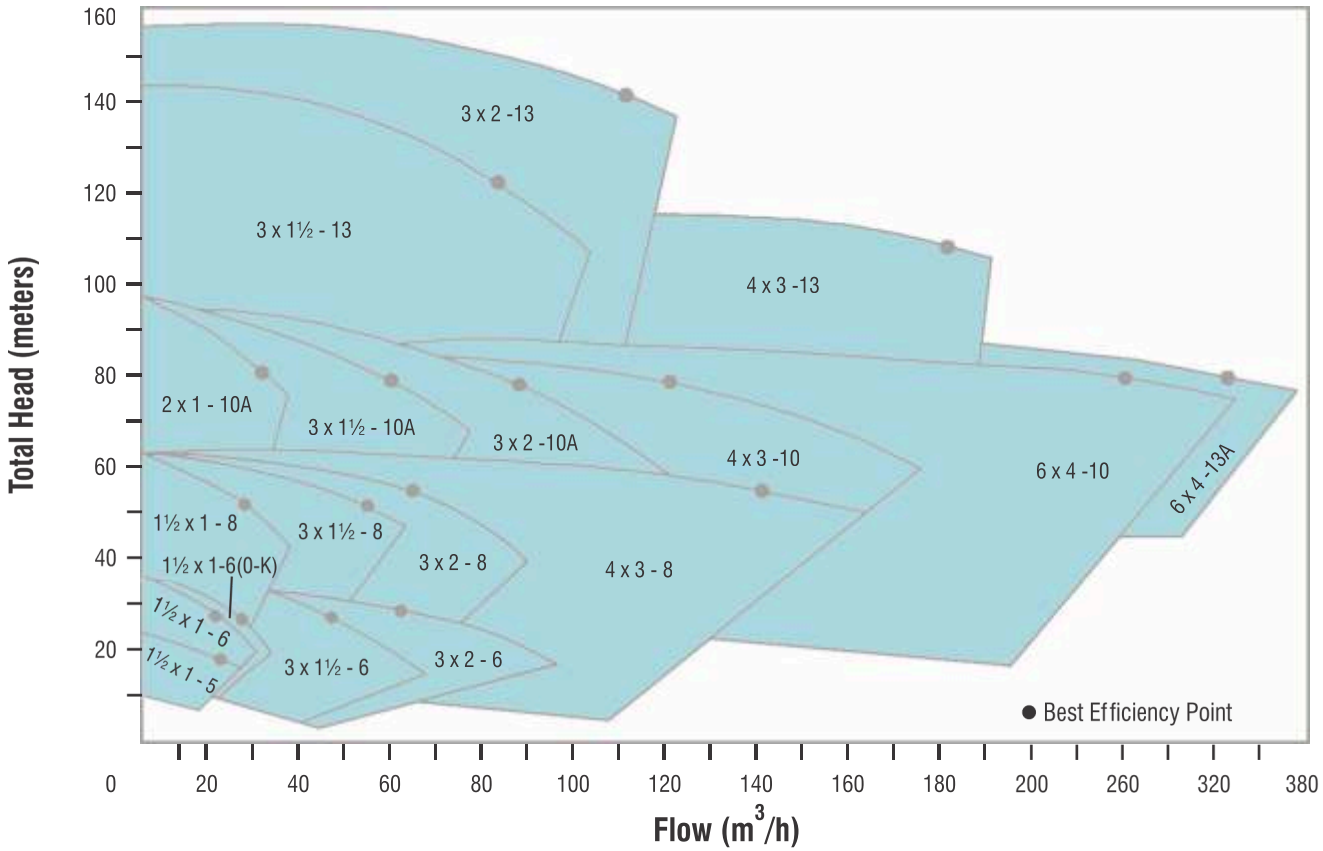
Open RV

3 x 2 - 8
4 x 3 - 8
2 x 1 - 10A
3 x 1½ - 10A
3 x 2 - 10A
4 x 3 - 10
4 x 3 - 10H
6 x 4 - 10
6 x 4 - 10H
3 x 1½ - 13
3 x 2 - 13
4 x 3 - 13
4 x 3 - 13HH
6 x 4 - 13A
6 x 5 - 13

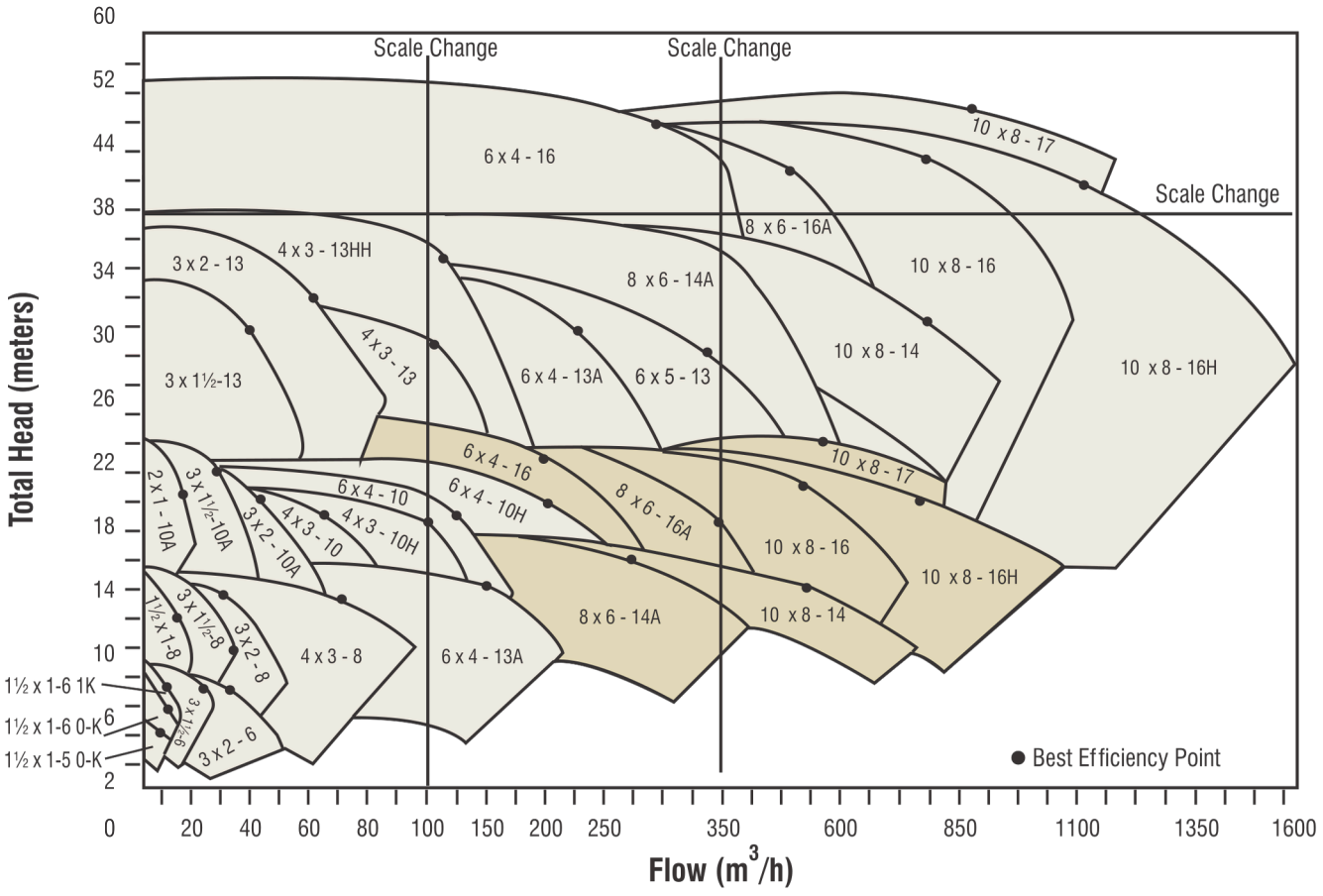
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LOVA TECH INDUSTRIES PROCESS PUMP SELECTION PERFORMANCE CURVES

2900 RPM



1450 and 960 RPM



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LOVA TECH INDUSTRIES PROCESS PUMP TECHNICAL DATA

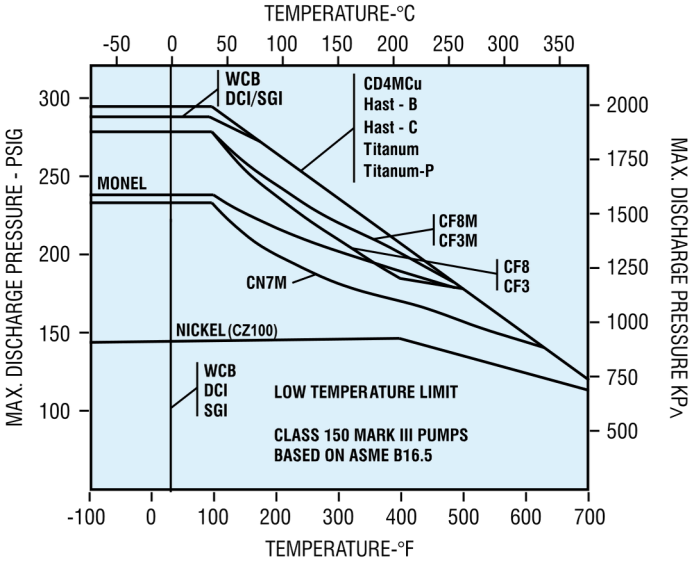
Pump Series	Pump Model	Min. Casing Thickness mm (inch)	Max. Sphere Thru Imp. (RV) mm (inch)	RV Impeller Eye Area cm² (inch²)	Corrosion Allow. mm (inch)	Min. Temp. °C (°F)	Max. Temp. °C (°F)	Max. Allow Horse Power 960 kW	1450 kW	2900 kW	Max. Shaft End Play mm (inch)	Bearing number	Max. Impeller Dia. mm (inch)
M-0	1½ x 1 - 5	10 (0.39)	11.1 (0.43)	20 (3.1)	3 (0.12)	-149 (-236.2)	175 (380) [380 (716)] with cooling	6	10	20	0.03 (0.001)	(I.B.) 6305 (O.B.)3305A 5305	130 (5.1)
	1½ x 1 - 6	10 (0.39)	9.5 (0.37)	20 (3.1)									158 (6.2)
M-1	1½ x 1 - 6	10 (0.39)	9.5 (0.37)	20 (3.1)				8.5	12.5	25	0.03 (0.001)	(I.B.) 6207 (O.B.) 3306/ 5306	158 (6.2)
	3 x 1½ - 6	10 (0.39)	11.1 (0.43)	28.4 (4.4)									158 (6.2)
	3 x 2 - 6	10 (0.39)	11.1 (0.43)	36.1 (5.6)									158 (6.2)
	1½ x 1 - 8	10 (0.39)	8.7 (0.34)	20 (3.1)									208 (8.2)
	3 x 1½ - 8	11 (0.43)	14.3 (0.56)	35.5 (5.5)									208 (8.2)
M-2	3 x 2 - 8	11 (0.43)	13.5 (0.53)	43.8 (6.8)	3 (0.12)	-149 (-236.2)	175 (380) [380 (716)] with cooling	31	46.5	93	0.03 (0.001)	(I.B.) 6310 (O.B.) 3310/ 5310	208 (8.2)
	4 x 3 - 8	11 (0.43)	12.7 (0.50)	80 (12.0)									208 (8.2)
	2 x 1 - 10A	11 (0.43)	10.3 (0.40)	22.6 (3.5)									254 (10.0)
	3 x 1½ - 10A	11 (0.43)	11.9 (0.46)	35.4 (5.5)									254 (10.0)
	3 x 2 - 10A	11 (0.43)	13.5 (0.53)	41.3 (6.4)									254 (10.0)
	4 x 3 - 10	13 (0.51)	16.7 (0.65)	85.2 (13.2)									254 (10.0)
	4 x 3 - 10H	13 (0.51)	19.8 (0.77)	85.2 (13.2)									254 (10.0)
	6 x 4 - 10	13 (0.51)	17.5 (0.68)	126.5 (19.6)						110			254 (10.0)
	6 x 4 - 10H	13 (0.51)	14.3 (0.56)	142 (22.0)									254 (10.0)
	3 x 1½ - 13	11 (0.43)	15.1 (0.59)	48.4 (7.5)						93			330 (13.0)
	3 x 2 - 13	11 (0.43)	10.3 (0.40)	48.4 (7.5)									330 (13.0)
	4 x 3 - 13	11 (0.43)	17.5 (0.68)	98 (15.2)									330 (13.0)
	4 x 3 -13HH	11 (0.43)	17.5 (0.68)	98 (15.2)									330 (13.0)
	6 x 4 - 13A	11 (0.43)	26.2 (1.03)	187.1 (29.0)						110			330 (13.0)
	6 x 5 - 13	11 (0.43)	26.2 (1.03)	187.1 (29.0)									330 (13.0)
M-3	8 x 6 - 14A	13 (0.51)	41.3 (1.62)	292 (45.3)	3 (0.12)	-149 (-236.2)	175 (380) [380 (716)] with cooling	134	200	-	0.03 (0.001)	(I.B.) 6314 (O.B.) 3314/ 5314	356 (14.0)
	10 x 8 - 14	16 (0.63)	38.1 (1.50)	410 (63.6)									356 (14.0)
	6 x 4 - 16	16 (0.63)	30.2 (1.18)	172 (26.7)									406 (16.0)
	8 x 6 - 16A	14 (0.55)	31.7 (1.24)	292 (45.3)									406 (16.0)
	10 x 8 - 16	14 (0.44)	39.7 (1.56)	410 (63.6)									406 (16.0)
	10 x 8 - 16H	13 (0.51)	41.3 (1.62)	506 (78.4)									406 (16.0)
	10 x 8 - 17	13 (0.51)	39.7 (1.56)	515 (79.8)									432 (17.0)

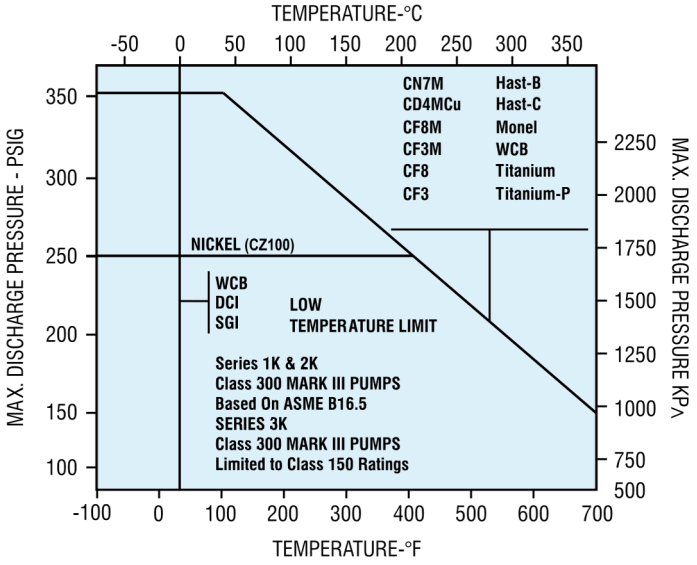
Working Pressure Maximum 20 bar (290 psi) at 38°C (100°F), Test Pressure Maximum 30 bar (435 psi)

PRESSURE TEMPERATURE RATINGS

LOVA TECH PUMPS FOR LOW AND HIGH TEMPERATURE SERVICES

Based on years of satisfactory experience, **LOVA TECH** Pumps are increasingly being used to handle liquids ranging in temperature from as low as -149°C (-236.2°F) to as high as 380°C (716°F). Combine the great hydraulics, easy maintenance and readily available parts of the Standard **LOVA TECH** with specific design options and you have an extremely reliable Pump for your demanding services... at a cost less than previously used specific-purpose Pump





LOVA-TECH INDUSTRIES
Since 2005

E-mail : sales@lovatechindustries.com
Website : www.lovatechindustries.com

LOVA TECH INDUSTRIES ASME PROCESS PUMP

Custom Made With Sophisticated Simplicity.

The First Choice of Decision Makers Because they save money in the long run...

- Unique external Micrometer Impeller adjustment for quick, Easy and accurate setting.
- Reverse Vane Impeller requires less NPSH minimizing Cavitation problems. Maintains lower Stuffing Box pressure that increases Mechanical Seal life. Impeller setting against the face of Stuffing Box Cover, so the Wear Surface is Cover and not the more Expensive Casing.
- New Heavy Duty Power-End for rugged dependable service.
- New Pump Sizes for improved Hydraulic coverages and higher Efficiencies resulting in Lower Operating Costs.
- The Built in Quality that makes MARK III the Standard Pump of the Process Industries.

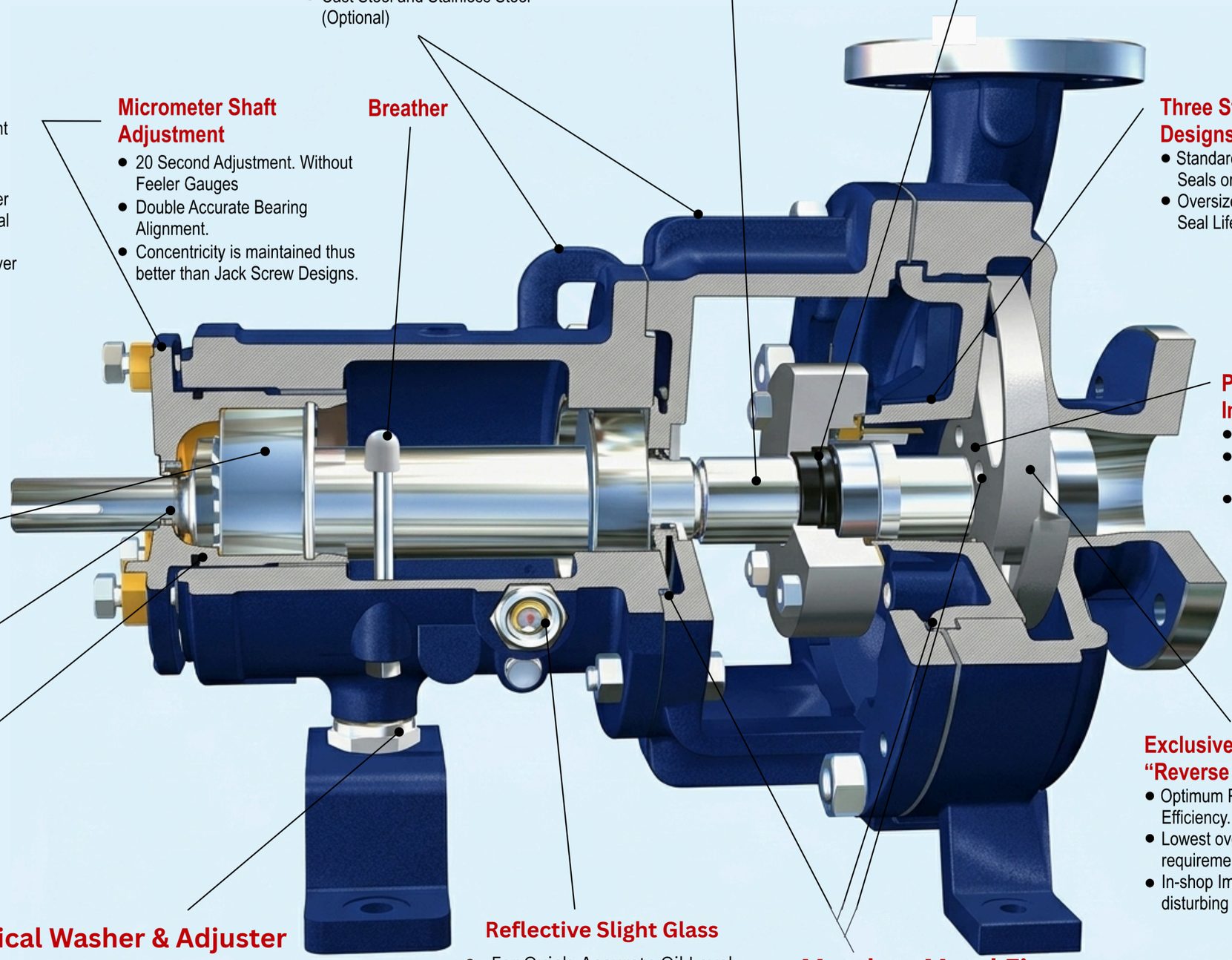
Bearing Housing and Adapter
- S.G. Iron for More Strength (Standard)
- Cast Steel and Stainless Steel (Optional)

Shafts & Sleeves
- Corrosion, Wear and Shock Resistance.
- Hook Type Sleeve.

Minimum Shaft Deflection
- Less than 0.025 mm (0.001″)
- Mechanical Seals run true

Micrometer Shaft Adjustment
- 20 Second Adjustment. Without Feeler Gauges
- Double Accurate Bearing Alignment.
- Concentricity is maintained thus better than Jack Screw Designs.

Breather



Three Stuffing Box Designs
- Standard Dimension for Most Seals or Packing.
- Oversize Dimensions for Longer Seal Life and Special Seals

PTFE & Silicon Rubber Impeller Gasket.
- Corrosion resistance of PTFE.
- Sealing resiliency of Silicon Rubber.
- Maximum Protection of Impeller and Shaft Threads.

Double Row Thrust. Single Row Radial Bearings.
- Less than 0.03 mm (0.001″) End Play.
- Exceeds Bearing Life of 17,500 hours.

Oil Seals Inboard and Outboard.
- Maintain Clean Bearing Environment.

O-Rings Thread Protection
- Seal Threads from Environment.
- Insures easy Rotating.

Exclusive MARK III “Reverse Vane” Impeller
- Optimum Performance and Efficiency.
- Lowest overall NPSH requirements.
- In-shop Impeller Setting without disturbing Casing from pipeline.

Spherical Washer & Adjuster
- For Ease of Online Maintenance

Reflective Slight Glass
- For Quick, Accurate Oil Level Reading

Metal-to-Metal Fits
precision Alignment for Longer Mean Time Between Planned Maintenance (MTBPM)

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Lova-tech Industries

Equivalent to microfinish pump

LOVA-TECH PUMPS PARTS



CONTACT US

LOVA-TECH INDUSTRIES

High-Performance Pumping Solutions

CONTACT US

We are always ready to serve you with the best products, technical expertise and dedicated support. Get in touch with us today!



ADDRESS

Near Marshal Motor, Near Enrich Enterprise,
Kanodar, Ta-Palanpur,
Dist-Banaskantha, Gujarat, India.
Pin Code - 385520.

PHONE

+91 80971 16324
+91 80978 10334
+91 98191 11322

EMAIL

sales@lovatechindustries.com

WEBSITE

www.lovatechindustries.com

WE ARE HERE TO HELP!

For any inquity or support,
our team is just a call or email away.

LOVA-TECH INDUSTRIES

Your Trusted Partner for Mechanical Seal Solutions.

QUALITY YOU CAN TRUST | SOLUTIONS YOU CAN RELY ON | PARTNERSHIP YOU CAN COUNT ON | SATISFACTION YOU BESERVE

"We don't just supply Mechanical Seals,"