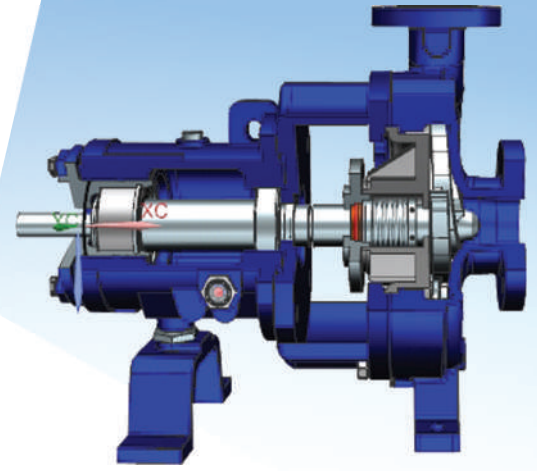




*SINCE 2002*

EMAIL : chemproof2021@gmail.com  
Website : www.chemproofpumps.com



**CHEM-PROOF PUMPS INDIA**

**SERIES CMP**

# CHEMICALS PROCESS PUMPS

**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 CHEM-PROOF 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.

**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.

**Exclusive CHEM-PROOF "Reverse Vane" Impeller**

- Optimum Performance and Efficiency.
- Lowed overall NPSH requirements.
- In-shop Impeller Setting without disturbing Casing from pipeline.

**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.

**Spherical Washer & Adjuster**

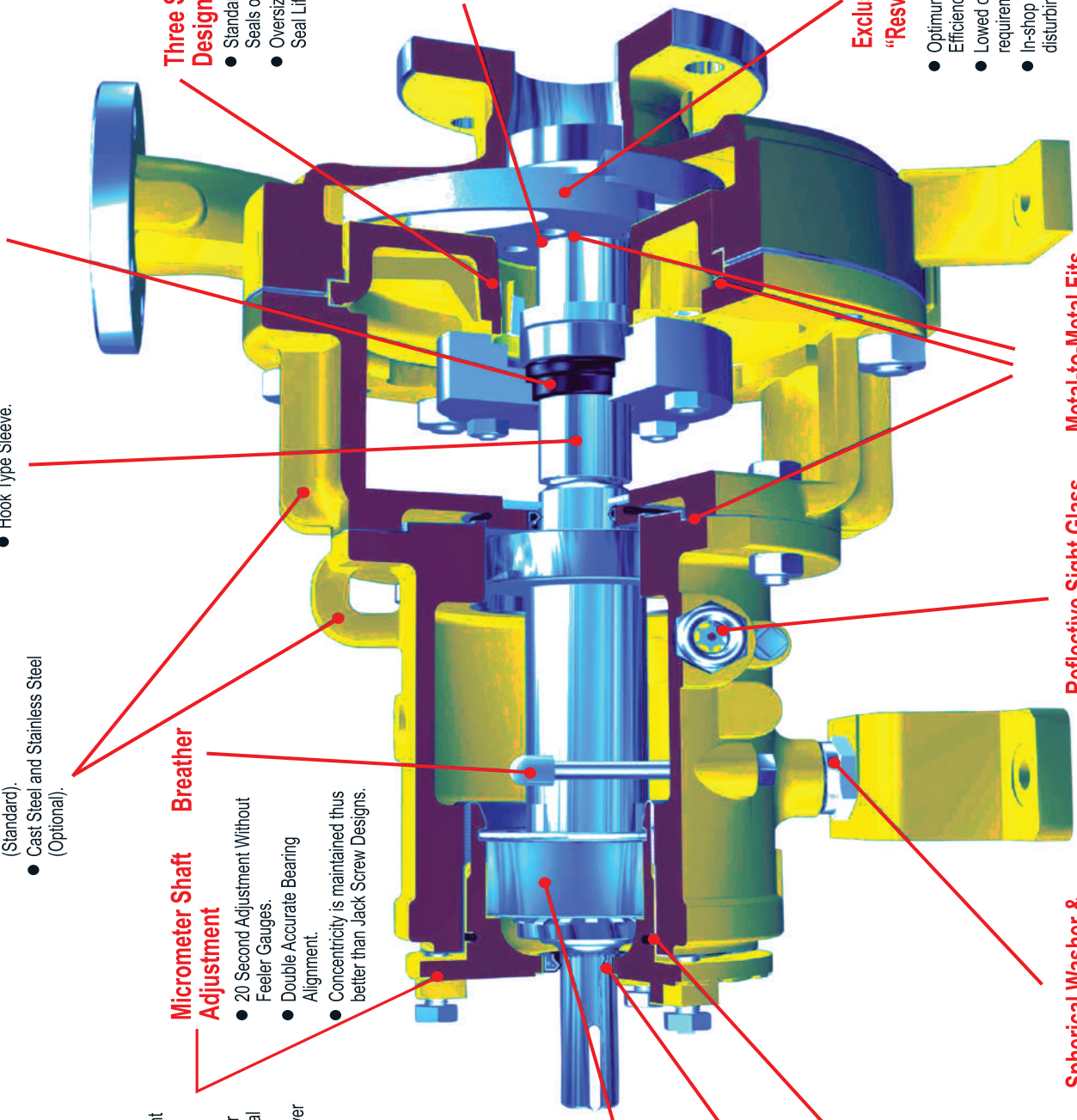
For Ease of Online Maintenance.

**Reflective Sight Glass**

- For Equick, Accurate Oil Level Reading.

**Metal-to-Metal Fits.**

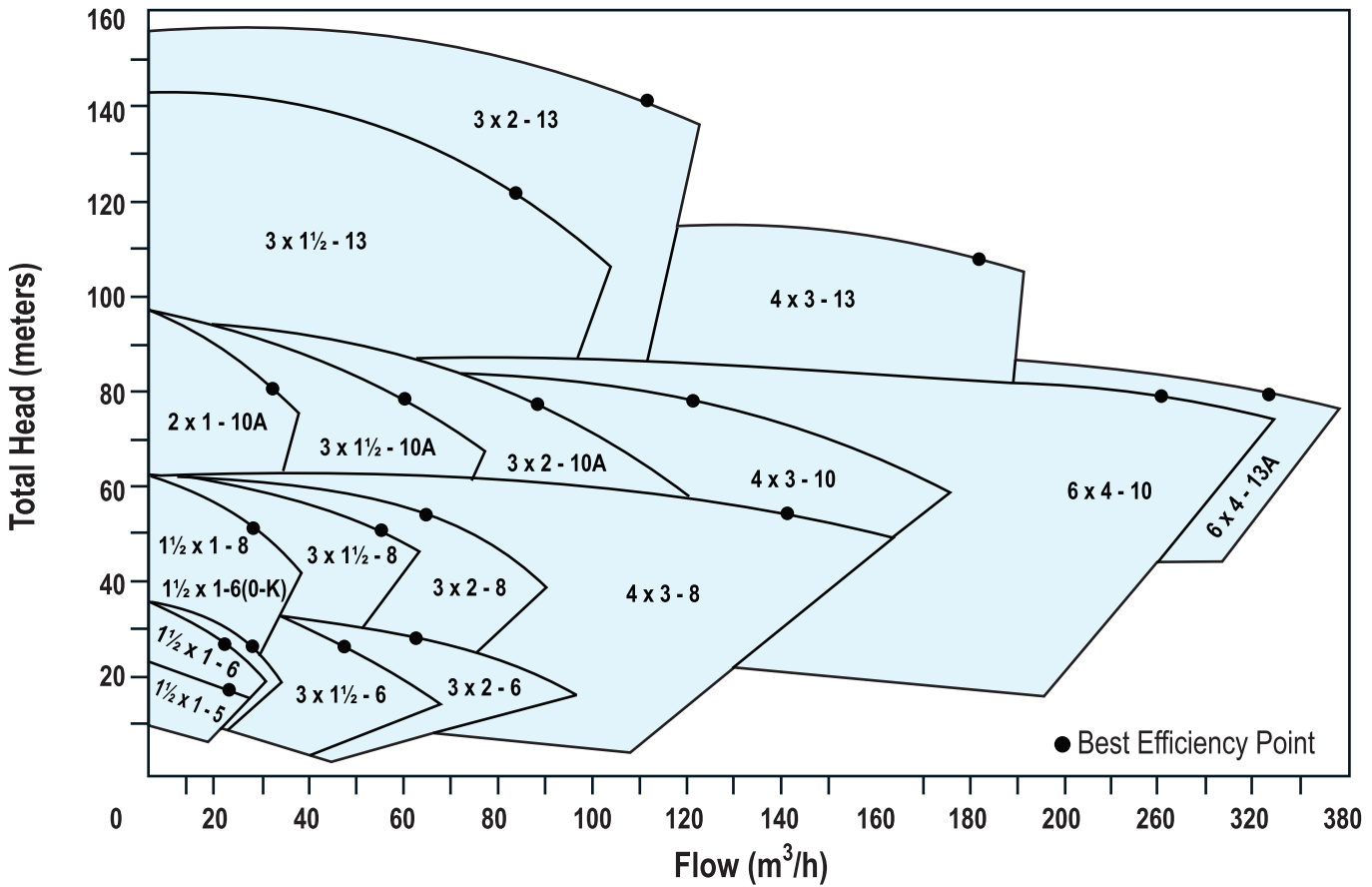
- Precision Alignment for Longer Mean Time between Planned Maintenance.



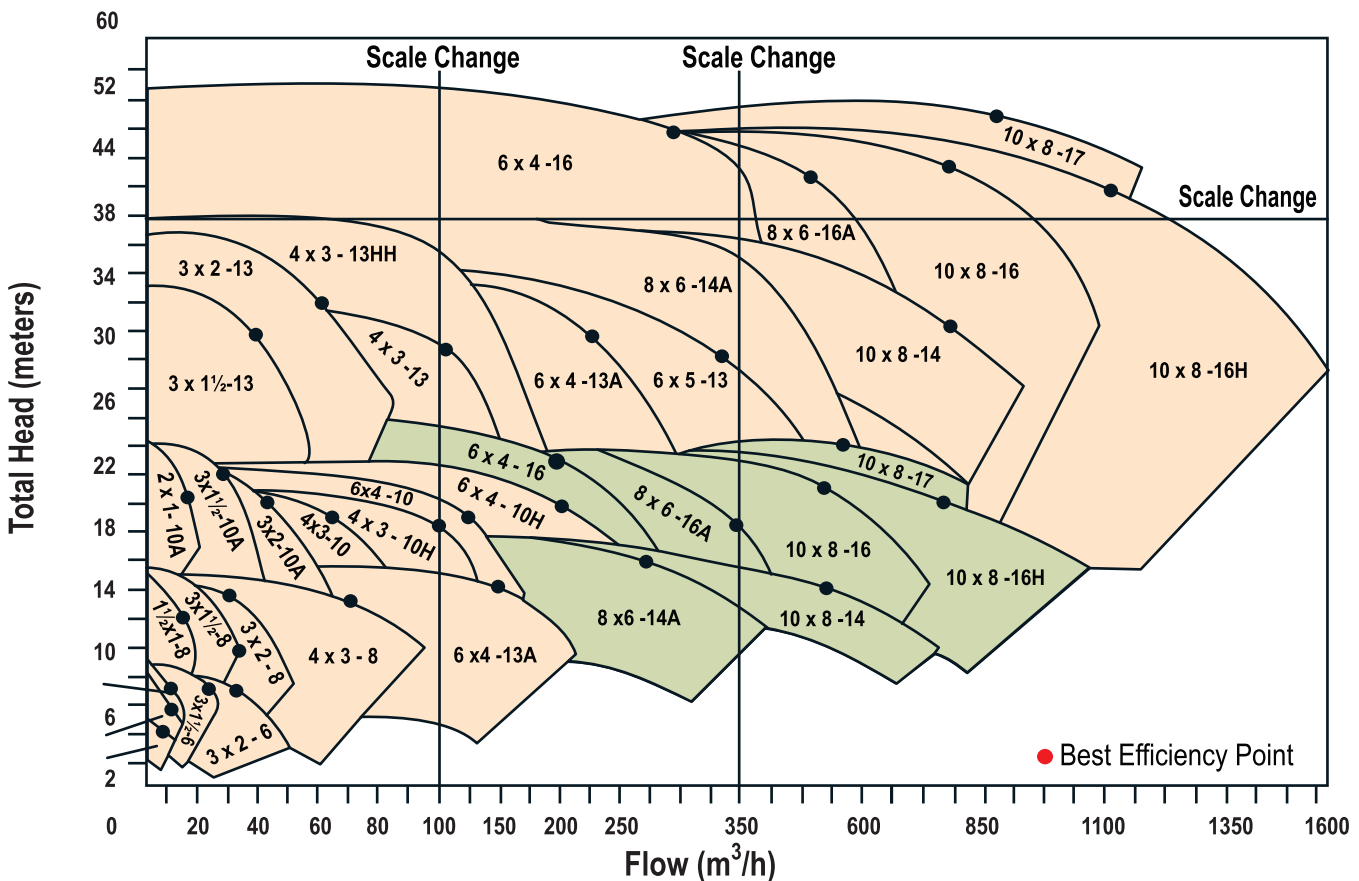


# CHEM-PROOF PUMPS SELECTION PERFORMANCE CURVES

2900 RPM



● 1450 and ● 960 RPM



● Best Efficiency Point



## CHEM-PROOF PUMPS TECHNICAL DATA

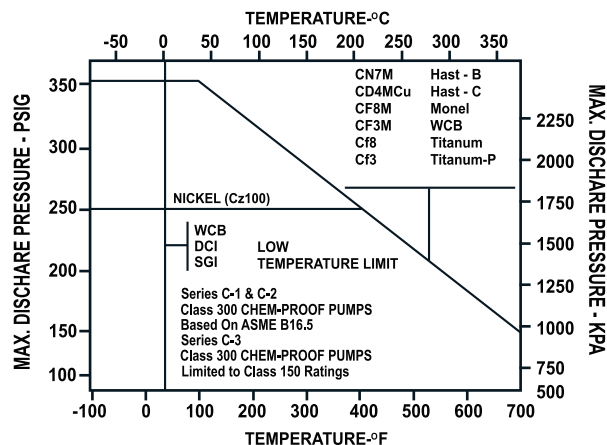
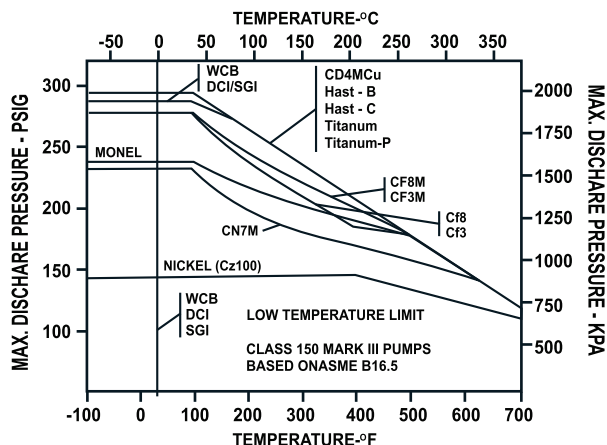
Pump Series	Pump Model	Min. Casing Thickness mm (inch)	Max. Sphere Thru Imp. (RV) mm (inch)	RV Impeller Eye Area cm <sup>2</sup> (inch <sup>2</sup> )	Corrosin Allow. cm (inch)	Min. Temp. °C(°F)	Max. Temp. °C(°F)	Flow Rates			Max. Shaft End Play mm (inch)	Bearing number	Max. Impeller Dia. mm (inch)
								960 kW	1450 kW	2900 kW			
C-0K	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)
C-1K	1½ x 1 - 6	10 (0.39)	9.5 (0.37)	20 (3.1)	3 (0.12)	-149 (-236.2)	175 (380) [380(716)] with cooling	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)									208 (8.2)
	3 x 2 - 6	10 (0.39)	11.1 (0.43)	36.1 (5.6)									208 (8.2)
	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)
C-2K	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 (0.88)	126.5 (19.6)									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)									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)									330 (13.0)
6 x 5 - 13	11 (0.43)	26.2 (1.03)	187.1 (29.0)	330 (13.0)									
C-3K	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

#### CHEM-PROOF PUMPS FOR LOW AND HIGH TEMPERATURE SERVICES

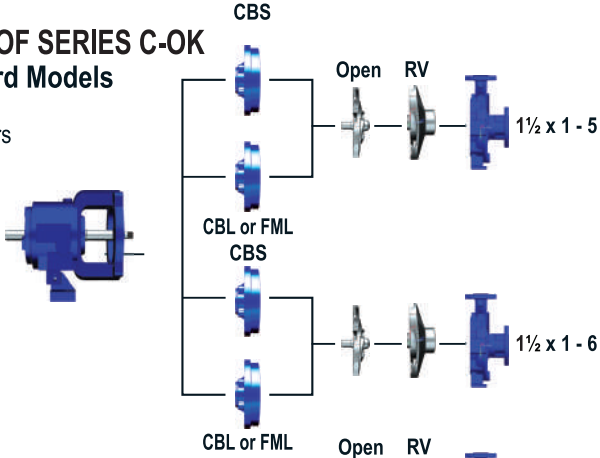
Based on years of satisfactory experience, Chemproof Pumps are increasingly being used to handle liquids ranging in temperature from as low as as -149C (-236.2F), to as high as 380 c (716 f), Combine the great hydraulic, easy maintenance and readily available parts of the Standard MARK III with soecific design options , and you have and extremely reliable pump for your demanding services...At a cost less than perviously used specific-purpose Pump.



# CHEM-PROOF PUMP INTERCHANGEABILITY

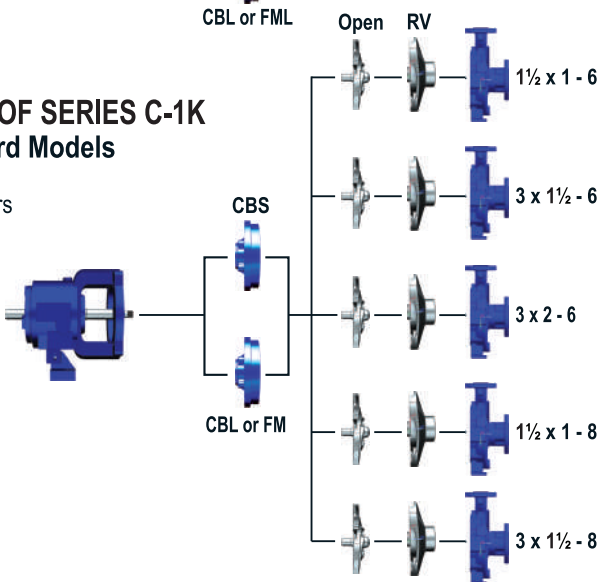
## CHEM-PROOF SERIES C-OK Two Standard Models

One Power-End  
Two Rear Covers  
Two Impellers  
Two Casings



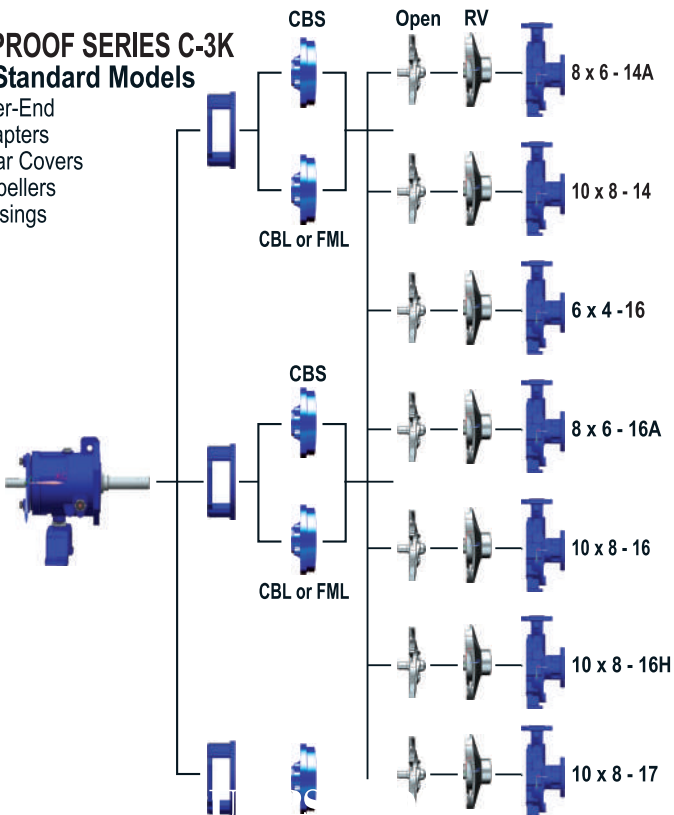
## CHEM-PROOF SERIES C-1K Five Standard Models

One Power-End  
One Rear Covers  
Five Impellers  
Five Casings



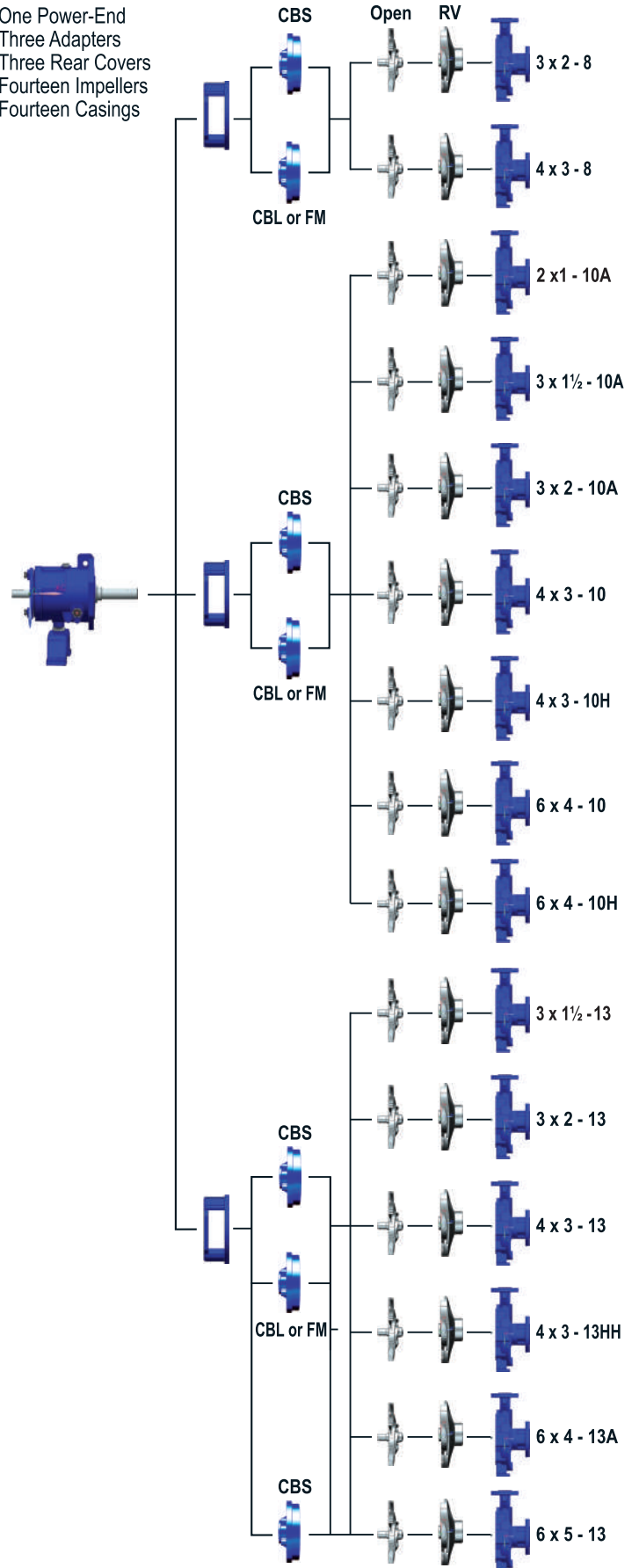
## CHEM-PROOF SERIES C-3K Seven Standard Models

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

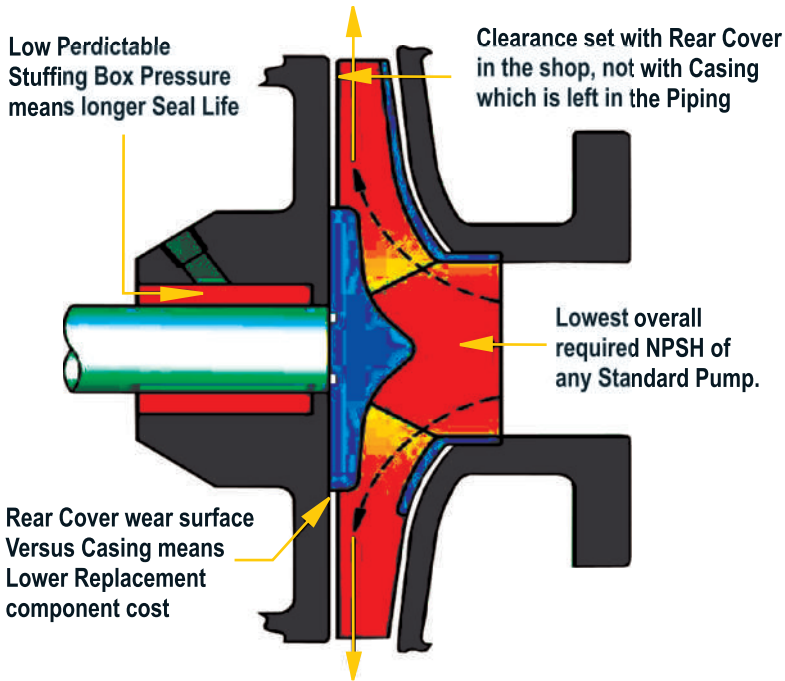


## CHEM-PROOF SERIES C-2K Fourteen Standard Models

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



## CHEM-PROOF PUMP IMPELLERS



### Unique Advantage of Reverse Vane Impellers

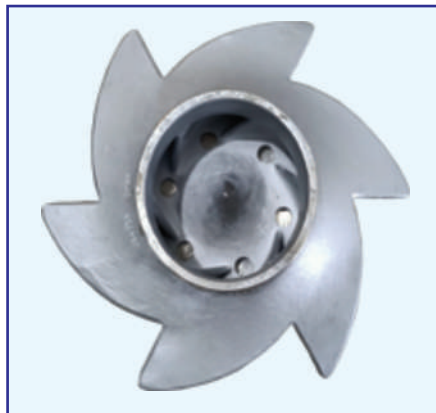
Reverse Vane Impeller (semi open) deliver Unequalled Efficiency and Performance, This Exclusive Impeller Design Extends Bearing as well as Seal Life

- **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 problems.
- **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 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 Seal Chamber Pressure and Bearing Thrust Loads.



**Exclusive LOW FLOW IMPELLERS (LF)**  
Designed specifically for trouble free Operation at Low Flow.



**Exclusive Reverse Vanu Impeller**  
With balance holes of fers improved performance and reducing maintenance time  
The only ASME Pump Impeller Design that offers repeatable Pump performance ththroughout the life of the Pump.



**Front Vane Open Impeller (Optional)**  
is fully interchangeable with the Reverse Vane Impeller, Excellent choice for Slurry, Stringy and Certain applications requiring high shear against the casing.



**Inpro VBX bearing isolator  
CHEM-PROOF 3A Power-End**

#### Fastest Maintenance Turnaround time

- Micrometer type Shaft and Impeller Adjustment Accurately Seft 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.

Recognised Worldwide as the Premier Name as CHEM-PROOF PUMPS ( INDIA ) PVT LTD .  
The advanced design and precision manufacture of the rugged, heavy-duty CHEM-PROOF 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 CHEM-PROOF Pumps provide significant Performance benifits for Pump users.

#### A Choice of Power Ends

- Standard CHEM-PROOF Power Ends with oil seals.
- CHEM-PROOF 3A Power Ends (shown here) featuring Inpro VBX bearing Isolators and up to a three-year performance guarantee.

#### Trust Running CHEM-PROOF 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 CHEM-PROOF Standard Process Pump cover a broad hydraulic range

#### Twenty Nine Sizes

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

#### Capacities

- 0.6 m<sup>3</sup>/h to 1390 m<sup>3</sup>/h

#### Head

- 3 m to 152 m (See page 3 & 4 for Component Interchangeability & Performance Data.)





## CHEM-PROOF METALLIC PUMP PARTS







# CHEM-PROOF PUMPS INDIA

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## CHEM-PROOF PUMPS (I) PVT. LTD

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

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CHEM-PROOF PUMPS INDIA

SERIES CMP