



## ECC & ECCV SERIES

### ANSI B73.1 CHEMICAL PROCESS & GENERAL REFINERY SERVICES PUMPS

## INNOVATION NEVER STOPS AT C.R.I. PUMPS!

RUGGED, RELIABLE, HIGH QUALITY, and HIGHLY EFFICIENT are just but a few of the positive and descriptive words now being used for C.R.I. Pumps new offering to the Industrial Pump market!

The ECC Series range of ANSI B73.1 pumps now augments and compliments C.R.I. Pumps existing and extensive Water Pump ranges.

True to its tradition as a market leader, the newly designed pumps are based on proven technology and the range covers 21 different sizes, which can be customized to suit your specific application.

The ECCV Series is our vertical cantilever version of the same pump and is custom designed for tank or sump mounting.

#### SALIENT FEATURES:

- Specifications to ANSI B73.1.
- Greater Wear Life
- Ease of maintenance
- Fixed/Variable speed drive
- High Performance
- Semi-Open Impeller
- Gland packing / Mechanical Seals
- High shaft & bearing strength
- Maximum bearing protection
- Standard Oil Splash Lubrication
- Available in Horizontal and Vertical Cantilever Configurations

#### GROWING REQUIREMENTS & ADDITIONAL MARKETS

By keeping a close eye on Market and Industry needs, C.R.I. Pumps has ensured that its new ECC & ECCV range of ANSI B73.1 Chemical / Process pumps can cater to a wide and diverse set of industries and applications, some of which are listed below:-

#### OIL, GAS & CHEMICAL

- Non API 610 Chemical & Process Applications
- General Refinery Services
- Erosive/Corrosive Liquors
- Chemical & Process Transfer
- Demineralised Water
- Condensates

#### PAPER, PULP & PROCESS

- Low Consistency Paper, Pulp & Stock
- De-watering & De-inking Process Liquors
- Water & Effluent Applications

#### GENERAL INDUSTRY

- Brewing & Bottling Plant Liquors
- Distillation Plant Liquors
- Steel Making, Mining, Effluent, and General Industrial Applications



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### STANDARD & OPTIONAL MATERIAL COMBINATIONS

| Sl.No | Description            | Standard | Optional*                    | Optional* |
|-------|------------------------|----------|------------------------------|-----------|
| 1     | Casing                 | SS316    | CI                           | SS ALLOY  |
| 2     | Impeller               | SS316    | CI                           | SS ALLOY  |
| 3     | Stuffing Box           | SS316    | CI                           | SS ALLOY  |
| 4     | Gland                  | SS316    | CI                           | SS ALLOY  |
| 5     | Shaft / Sleeve         |          | SS / EN8*                    |           |
| 6     | Bearing Frame Assembly |          | CI                           |           |
| 7     | Gland Sealing          |          | GI-PTFE / Mechanical Seals   |           |
| 8     | Lantern Ring           |          | PTFE (On Gland Packed Pumps) |           |
| 9     | O-Ring                 |          | Neoprene                     |           |
| 10    | Fasteners              |          | SS / MS                      |           |

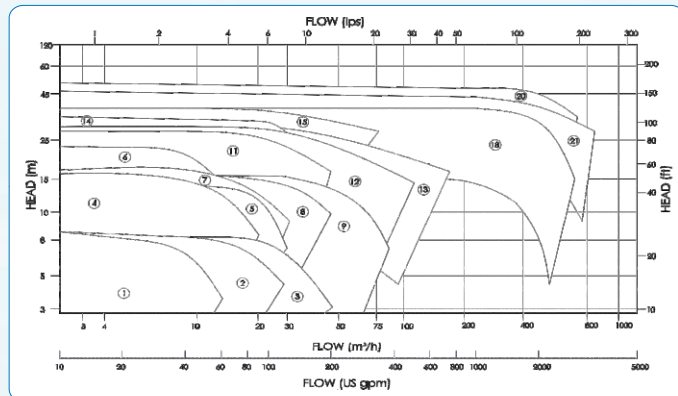
\* Many other options available

### OPERATING DATA

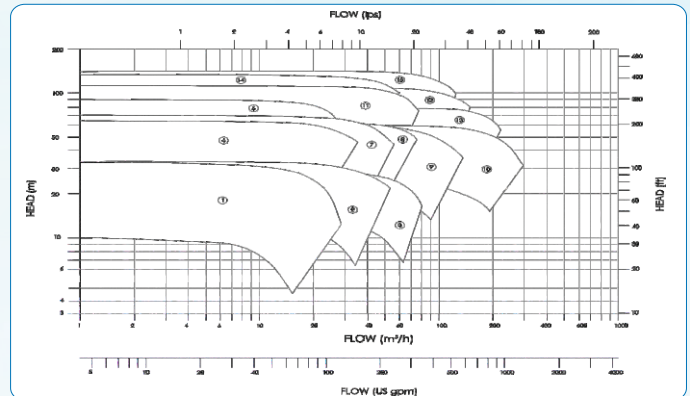
- Max. Working pressure - 10/16 (Bar)
- Max. Flow rate - 720 m<sup>3</sup>/h
- Max. Total Head - 110 m
- Max. Solid Size Data - 50 mm
- Min/Max Speed - 970/1480/2900 rpm
- Min/Max Temperature - 20°C to 180°C

| Pump Key No.               | 1                      | 2                      | 3                       | 4                      | 5                      | 6                       | 7                        | 8                        | 9                       | 10                       | 11                      |
|----------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|
| <b>Pump Size mm (inch)</b> | 40x25x150<br>(1.5x1x6) | 80x40x150<br>(3x1.5x6) | 80x50x150<br>(3x2x6)    | 40x25x200<br>(1.5x1x8) | 80x40x200<br>(3x1.5x8) | 50x25x250<br>(2x1x10)   | 80x50x215<br>(3x1.5x8.5) | 80x50x215<br>(3x2x8.5)   | 100x80x215<br>(4x3x8.5) | 150x100x215<br>(6x4x8.5) | 80x40x280<br>(3x1.5x11) |
| Pump Key No.               | 12                     | 13                     | 14                      | 15                     | 16                     | 17                      | 18                       | 19                       | 20                      | 21                       |                         |
| <b>Pump Size mm (inch)</b> | 80x50x280<br>(3x2x11)  | 100x40x280<br>(4x3x11) | 80x40x330<br>(3x1.5x13) | 80x50x330<br>(3x2x13)  | 100x80x330<br>(4x3x13) | 150x100x330<br>(6x4x13) | 200x150x330<br>(8x6x13)  | 250x200x330<br>(10x8x13) | 200x150x380<br>(8x6x15) | 250x200x380<br>(10x8x15) |                         |

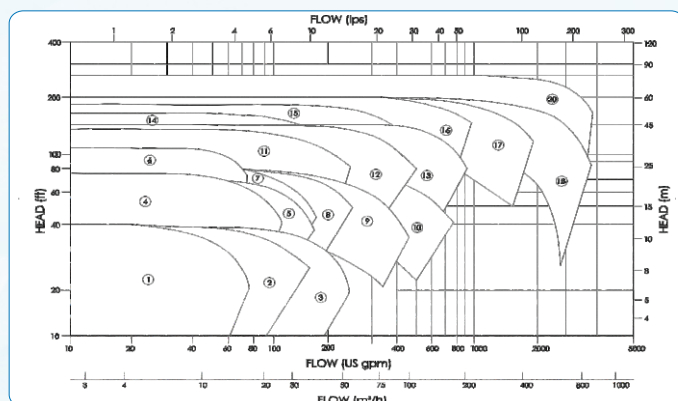
### ECC & ECCV (CHEMICAL) SERIES - 50Hz - 1450 rpm



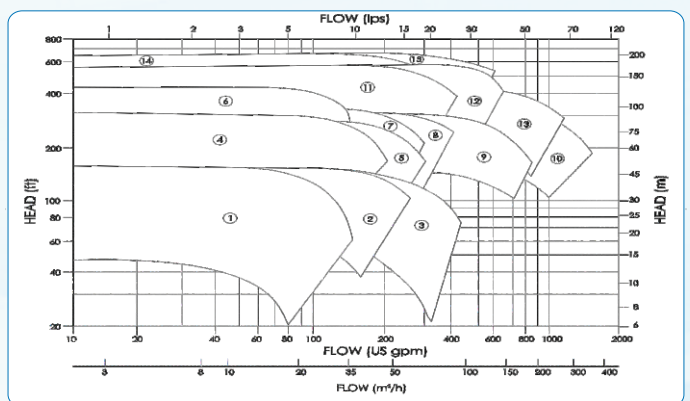
### ECC & ECCV (CHEMICAL) SERIES - 50Hz - 2900 rpm



### ECC & ECCV (CHEMICAL) SERIES - 60Hz - 1750 rpm



### ECC & ECCV (CHEMICAL) SERIES - 60Hz - 3600 rpm



## C.R.I. PUMPS PVT. LTD., (Unit: Tuff Pumps)

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Authorized dealer

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