

## Range

| Sr. No. | Model      | Motor Hp | RPM  | Max Cap M3/Hr. | Max Head in M | Suction (mm) | Discharge (mm) |
|---------|------------|----------|------|----------------|---------------|--------------|----------------|
| 1       | P-22-100-H | 1.00     | 2900 | 0 - 6.5        | 13 - 0        | 25           | 25             |
| 2       | P-44-120-H | 2.00     | 2900 | 0 - 24         | 18 - 0        | 40           | 40             |
| 3       | P-44-150-H | 3.00     | 2900 | 0 - 22         | 24 - 0        | 40           | 40             |
| 4       | P-47-160-H | 5.00     | 2900 | 0 - 32         | 33 - 0        | 75           | 40             |
| 5       | P-57-170-H | 7.50     | 2900 | 0 - 60         | 34 - 0        | 75           | 50             |
| 6       | P-47-210-L | 3.00     | 1440 | 0 - 33         | 15 - 0        | 75           | 40             |
| 7       | P-45-190-H | 10.00    | 2900 | 0 - 58         | 49 - 0        | 50           | 40             |
| 8       | P-57-210-L | 5.00     | 1440 | 0 - 52         | 16 - 0        | 75           | 50             |
| 9       | P-57-185-H | 20.00    | 2900 | 0 - 96         | 42 - 0        | 75           | 50             |
| 10      | P-44-205-L | 2.00     | 1440 | 0 - 26         | 12 - 0        | 40           | 40             |

**FIRST PHOTOGRAPH IS FOR MONOBLOCK CONSTRUCTION PUMPS**  
Cost Of Accessories Like Base Frame, Coupling, Coupling Guard Can Be Saved  
**SECOND PHOTOGRAPH IS FOR BARE SHAFT**  
**THIRD PHOTOGRAPH FOR VERTICAL PUMP IN 500MM, 1000MM, 1500 MM LENGTH**

## Applications

- Scrubbing of corrosive gases like Cl<sub>2</sub>, F<sub>2</sub>, I<sub>2</sub>, SO<sub>2</sub>, SO<sub>3</sub>, CO<sub>3</sub>, NH<sub>3</sub>
- Effluent treatment, water treatment
- Pickling in steel rolling mills
- Drugs & pharmaceutical industries
- Filter press for dyes
- Electroplating, descaling
- Chemical, fertilizers, paper and pulp plant
- Thermal and automic power plant
- Rayon and staple fibre plant, copper zinc smelters
- Caustic soda plant, TiO<sub>2</sub> plant, steel plants.

## Advantages

- Volute , Impeller, are injection moulded polypropylene materials with smooth passage, hence it gives better efficiency.
- Less space required and easy to handle.
- Economical to transfer corrosive liquids.
- Shrouded vanes of open impeller constructed to handle slurries.
- Temperature range from 0 - to 80 Deg can handle by PP MOC.
- Temperature range from 0 - to 130 Deg can Handle by PVDF MOC.
- All components are interchangeable

**Note** : These pumps are available in PVDF material of construction

### Operation Principle

- Impeller mounted on shaft rotated by electrical motor.
- Volute casing and impeller and back plate guides the liquid to flow smoothly to get the best efficiency.
- This is centrifugal pump.

| <b>SPARES PARTS LIST:</b> |                                     |              |
|---------------------------|-------------------------------------|--------------|
| <b>SR .NO</b>             | <b>DESCREPTION</b>                  | <b>M.O.C</b> |
| 1                         | VALUTE CASING                       | P.P          |
| 2                         | BACK PLATE                          | P.P          |
| 3                         | IMPELLER                            | P.P          |
| 4                         | SUCTION FLANGE                      | P.P          |
| 5                         | ADOPTER                             | C.I.         |
| 6                         | CAGE RING                           | C.I          |
| 7                         | HARDWARE SET FOR VOLUTE ASSLY.      | SS           |
| <b>COMMON TO ALL</b>      |                                     |              |
| 8                         | FLANGE FOR BACKPLATE                | P.P          |
| 9                         | BUSH                                | GFT          |
| 10                        | DRIP - TRAY                         | FRP          |
| 11                        | STAIONARY RING FOR MACHSEAL -1 3/8" | CERAMIC      |
| 12                        | LOCATION FLANGE                     | BACK PLATE   |
| 13                        | PP COTAED NUT - 3/8" BSW            | PP/MS        |
| 14                        | LEG SUPPORT FOR BEARING HOUSE       | C.I          |
| 15                        | BALL BEARING 3306 MOTOR SIDE        | STD          |
| 16                        | CIR.CLIP                            | STEEL        |
| 17                        | OIL SEAL 40X25X10 MOTOR SIDE        | NEOPRENE     |
| 18                        | LOCK NUT WITH LOCK WAHSER           | STEEL        |
| 19                        | BARE SHAFT                          | EN 8         |
| 20                        | BEARING COVER                       | C.I          |
| 21                        | BEARING HOUSING                     | C.I          |
| 22                        | BALL BEARING 6207 PUMP SIDE         | STD          |
| 23                        | OIL SEAL 35X72X10 PUMP SIDE         | NEOPRENE     |

|                                     |                                      |                     |
|-------------------------------------|--------------------------------------|---------------------|
| 24                                  | DEFLACTOR                            | PP/MS               |
| 25                                  | SHAFT SLEEVE FOR 1 3/8" SEAL         | CERAMIC             |
| 26                                  | ROTARY UNIT FOR MACHSEAL             | TEF. BELLOWS        |
| 27                                  | WASHER FOR STAIONARYPART OF MACHSEAL | PTFE                |
| 28                                  | BOLTS FOR LOCATION FLANGE            | SS-316              |
| 29                                  | "O" RING                             | VITON               |
| <b>FOR GLAND PACKING ARRANGMENT</b> |                                      |                     |
| 35                                  | GLAND RING ( ONE SET = 4 RING )      | GRAFIED FILL TEFLON |
| 36                                  | GLAND PUSHER                         | BACKELITE           |
| 37                                  | GLAND HOUSE                          | GFT                 |
| 38                                  | LOCATION FLANGE                      | BACKELITE           |
| 39                                  | BACK PLATE WITH BUSH FOR GLAND SET   | PP                  |

