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# Let the happiness flow

DOMESTIC
& AGRICULTURAL PUMPS

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# INDEX

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# DOMESTIC SELF PRIMING PUMPS

**SALIENT FEATURES**

1. High Suction self priming upto 8 meter
2. Forged Brass Impeller for longer life
3. Lower power consumption
4. Aluminum Extruded & Die Casted & Cast Iron Motor Body.
5. Single Phase AC-2 Pole TEFC motor,suitable for 180-240 v,50 Hz
6. High Quality and long life Mechanical Seal.
7. In-built Thermal Overload Protector (TOP)
8. Attaractive & Compact design

**APPLICATION**

1. Water supply to Residential bunglows ,Flats
2. Gardening ,Farm houses & Building constructions
3. Booster Applications.
4. Hotels,Hospitals and Fountains
5. Water circulation

**MATERIAL OF CONSTRUCTION**

| SR. NO. | PART | MATERIAL |
|---|---|---|
| 1 | Motor Body | Extruded Aluminum / Die casted Aluminum / Cast Iron |
| 2 | Pump Casing | Cast Iron |
| 3 | Impeller | Forged Brass |
| 4 | Stamping | Electrical Sheet Steel |
| 5 | Motor Shaft | Stainless Steel |
| 6 | Winding wire | Enameled Copper Wire |
| 7 | Ball Bearing | Double Shielded Ball Bearing |
| 8 | Mechanical Seal | Ceramic ,SS & Carbon Combined |

NRV SERIES

NRV SERIES

SUPER SUCTION SERIES

V TYPE SERIES

V TYPE SERIES

SHALLOW WELL JET

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## Domestic (Self-Priming) Pumps
## Approximate Performance chart at 220 V, 1PH, 50 Hz, AC Supply

### NRV Series

| Material Code | Model | Pipe Size (mm ) | HP | kW | Head in Meters / Discharge in LPH | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 |
| PUSP1C0.5025A25L-77D | Alexa | 25x25 | 0.50 | 0.37 | 1650 | 1540 | 1440 | 1300 | 1100 | 900 | 650 | 250 (26) |
| PUSP1S0.5025A25S-70D | Rio | 25x25 | 0.50 | 0.37 | 1850 | 1500 | 1300 | 1100 | 800 | 300 | | |
| PUSP1C0.5025A25L-73D | Star II | 25x25 | 0.50 | 0.37 | 1950 | 1550 | 1320 | 1020 | 780 | 450 | | |
| PUSP1C0.5025A25L-75D | Aqua II | 25x25 | 0.50 | 0.37 | 2150 | 1900 | 1700 | 1400 | 1100 | 900 | 750 | 350 |

| Material Code | Model | Pipe Size (mm) | HP | kW | Head in Meters / Discharge in LPH | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 48 | 55 |
| PUSP1C1.0025A25L-23D | Galaxy | 25x25 | 1.00 | 0.75 | 2400 | 2200 | 2000 | 1810 | 1620 | 1350 | 1150 | 860 | 610 | 470(34) | | | | | |
| PUSP1C1.0025A25L-24D | Virat | 25x25 | 1.00 | 0.75 | | 2400 | 2050 | 1850 | 1550 | 1300 | 1220 | 900 | 650 | 500 | 300 | | | | |
| PUSP1C1.0025A25L-18D | Star I | 25x25 | 1.00 | 0.75 | 2650 | 2330 | 2110 | 1840 | 1630 | 1450 | 1250 | 900 | 700 | 450(34) | | | | | |
| PUSP1S1.0025A25S-15D | Delta | 25x25 | 1.00 | 0.75 | 3500 | 3270 | 3030 | 2800 | 2550 | 2300 | 2050 | 1850 | 1600 | 1350 | 1100 | 830 | 500 | | |
| PUSP1C1.0025A25L-20D | Aqua I | 25x25 | 1.00 | 0.75 | 3500 | 3300 | 2950 | 2800 | 2600 | 2500 | 2150 | 1900 | 1650 | 1500 | 1300 | 900 | | | |
| PUSP1C1.0025A25L-22D | Flowmaster I | 25x25 | 1.00 | 0.75 | 3200 | 3175 | 3150 | 3100 | 2950 | 2800 | 2750 | 2520 | 2380 | 2200 | 2050 | 1950 | 1700 | 1300 | 900 |

| Material Code | Model | Pipe Size (mm) | HP | kW | Head in Meters / Discharge in LPH | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 48 | 55 | 62 | 68 |
| PUSP1C1.5025A25L-30D | Ultra | 25x25 | 1.50 | 1.10 | 3600 | 3420 | 3200 | 3020 | 2880 | 2620 | 2560 | 2480 | 2340 | 2080 | 1650 | 1120 | 790 | 430 |

### Super Suction Series

| Material Code | Model | Pipe Size (mm) | HP | kW | Head in Meters / Discharge in LPH | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |
| PUSP1S0.5015A15S-0SS | Ruby | 15x15 | 0.50 | 0.37 | 1780 | 1630 | 1500 | 1350 | 1200 | 1000 | 770 | 500 | | | |
| PUSP1S1.0025A25S-0SS | Topaz | 25x25 | 1.00 | 0.75 | 2130 | 1930 | 1770 | 1620 | 1430 | 1260 | 1100 | 930 | 730 | 450 | 200 |

### V-Type

| Material Code | Model | Pipe Size (mm ) | HP | kW | Head in Meters / Discharge in LPH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| PUSP1V0.5025A25V-010 | Trishul I | 25x25 | 0.50 | 0.37 | 3000 | 2500 | 2150 | 1950 | 1700 | 1500 | 1250 | 1000 | 750 |
| PUSP1V0.5025A25S-010 | Trishul II | 25x25 | 0.50 | 0.37 | 3000 | 2500 | 2150 | 1950 | 1700 | 1500 | 1250 | 1000 | 750 |

### CMB Monobloc

| Material Code | Model | Pipe Size (mm ) | HP | kW | Head in Meters / Discharge in LP | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 36 |
| PUSP1C0.5025A25L-MMS | MMS | 25x25 | 0.50 | 0.37 | 2880 | 2490 | 2020 | 1825 | 1500 | 1100 | 680 | 180 | | |
| PUSP1S.0.5025A25S-SMD | PMS | 25x25 | 0.50 | 0.37 | 2850 | 2560 | 2340 | 1910 | 1670 | 1260 | 900 | 260 | | |
| PUSP1S1.0025A25S-SMDF | PMS1 | 25x25 | 1.00 | 0.75 | 3350 | 3060 | 2850 | 2490 | 2300 | 1908 | 1730 | 1440 | 1350 | 720 |

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**Domestic (Self-Priming) Pumps**
**Approximate Performance chart at 220 V, 1PH, 50 Hz, AC Supply**

## Shallow Well Jet Pumps

| Material Code | Model | Pipe Size (mm) | HP | kW | Head in Meters / Discharge in LPH | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 |
| PUSWJ1S0.5025A25S-50 | PSWJ50 | 25x25 | 0.50 | 0.37 | 3700 | 3600 | 3350 | 2760 | 2040 | 1080 | 660 | |
| PUSWJ1S1.0025A25S-10 | PSWJ100 | 25x25 | 1.00 | 0.75 | | 3840 | 3720 | 3240 | 2520 | 1860 | 1320 | 720 |

## Centrifugal Deep Well Jet Pumps

| Material Code | Model | Pipe Size (mm) Suc x pres x deli | HP | kW | Min. Clear Borewell Dia in mm | Operating Pressure in kg/sq. cm (meter) | DLWL* In Meters / Discharge in LPH | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 9 | 15 | 21 | 24 | 27 |
| PUPJ1C1.003225-PJT | PCJM-12A | 32x25x25 | 1.00 | 0.75 | 80 | 1.6 (16) | 1700 | 1200 | 660 | 520 | 400 |

| Material Code | Model | Pipe Size (mm) Suc x pres x deli | HP | kW | Min. Clear Borewell Dia in mm | Operating Pressure in kg/sq. cm (meter) | DLWL* In Meters / Discharge in LPH | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 30 | 33 | 36 | 39 | 45 | 50 |
| PUJT1C1.0032A25L-JT2 | PCJM-102 | 32x25x25 | 1.00 | 0.75 | 100 | 1.8 (18) | 790 | 710 | 630 | 540 | 400 | 280 |

## Pressure Booster

| Material Code | Model | Pipe Size (mm) | HP | kW | STAGE | Head in Meters / Discharge in (m³/h) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 10 | 14 | 21 | 28 | 34 | 40 |
| PUPB1C1.0025A25L-PBFS | Pressure Booster (With Assembly) | 25x25 | 1.00 | 0.75 | 5 | 4 | 3.6 | 3 | 2.4 | 1.8 | 0.9 |

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# DOMESTIC OPENWELL SUBMERSIBLE PUMPS

## SALIENT FEATURES

1. Water Lubricated Motor
2. Stainless steel stator body
3. Stainless steel Rotor shaft
4. Higher Operating Efficiency
5. Low Maintenance Cost
6. Lower Power Consumption
7. CED coated CI parts to avoid rusting for long time
8. Carbon+ SS Thrust Bearing for smooth functioning
9. Supply with Panel Board and Bend-Strainer set

## APPLICATION

1. Water Supply to Residential Bunglows,Flats & Buildings
2. Gardening,Farms,Hotels,Hospitals & Building Construction
3. Fountains

## MATERIAL OF CONSTRUCTION

| SR. NO. | PART | MATERIAL |
|---|---|---|
| 1 | Motor Body | Stainless Steel |
| 2 | Pump Casing | Cast Iron |
| 3 | Impeller | Glass Filled Noryl / Cast Iron |
| 4 | Stamping | Electrical Sheet Steel |
| 5 | Motor Shaft | Stainless Steel |
| 6 | Winding wire | Poly wrap Copper conductor |
| 7 | Bearing bush | Leaded tin bronze |
| 8 | Cable | PVC Insulated & PVC sheathed Flat type |

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## Domestic Openwell Submersible Pumps
## Approximate Performance chart at 220 V, 1PH, 50 Hz, AC Supply

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 28 | 30 | 32 | 34 | 38 | 42 | 46 |
| | | | | Discharge in LPH | | | | | | | | | | | | | |
| PUOW1H0.5025C25L-050 | 25 | 0.50 | 0.37 | 10200 | 9000 | 7800 | 6300 | 4200 | | | | | | | | | |
| PUOW1H0.5025C25L-050K | 25 | 0.50 | 0.37 | 10200 | 9000 | 7800 | 6300 | 4200 | | | | | | | | | |
| PUOW1H1.0032C25L-01L | 25 | 1.00 | 0.75 | | | | 10800 | 9900 | 8400 | 6600 | 3000 | | | | | | |
| PUOW1H1.0032C25L-01LK | 25 | 1.00 | 0.75 | | | | 10800 | 9900 | 8400 | 6600 | 3000 | | | | | | |
| PUOW1H1.0032C25L-01H | 25 | 1.00 | 0.75 | | | | 11700 | 10800 | 9300 | 8100 | 5700 | 4200 | 2400 | | | | |
| PUOW1H1.0032C25L-01HK | 25 | 1.00 | 0.75 | | | | 11700 | 10800 | 9300 | 8100 | 5700 | 4200 | 2400 | | | | |
| PUOW1H10032A25L-1HH | 25 | 1.00 | 0.75 | | | | | | | 9600 | 7200 | 5100 | 3600 | 2400 | | | |
| PUOW1H1.5040C40L-150 | 40 | 1.50 | 1.10 | | | | 16800 | 15000 | 12900 | 10500 | 6600 | | | | | | |
| PUOW1H15025A25L-150H | 25 | 1.50 | 1.10 | | | | | | | | | 8400 | 8100 | 7800 | 6300 | 3600 | 1800 |
| PUOW1H2.0050C50L-200 | 50 | 2.00 | 1.50 | | | | | 17400 | 15000 | 14100 | 9600 | 6600 | | | | | |

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# HORIZONTAL OPENWELL SUBMERSIBLE PUMPS

## SALIENT FEATURES

1. Water Lubricated Motor
2. Higher Operating Efficiency
3. Precise machined parts for longer life & Durability
4. Dynamically balanced Rotating parts to ensure minimum vibration
5. High tensile strength Cast Iron Impeller.
6. Wide voltage band and better performance in low voltage
7. Available in Single Phase & Three Phase.
8. High Quality carbon+ SS Thrust bearing used for smooth functioning
9. Stainless steel Rotor shaft

## APPLICATION

1. Agriculture Water supply
2. Irrigation of farms
3. Civil work and construction sites
4. Public water Supply to large residence areas and multi storied apartments.
5. Water supply to commercial establishments like Hotels, High-Rise Buildings & Hospitals etc.
6. Irrigation from River & canal
7. Fountains

## MATERIAL OF CONSTRUCTION

| SR. NO. | PART | MATERIAL |
|---|---|---|
| 1 | Motor Body | Cast Iron |
| 2 | Casing | Cast Iron |
| 3 | Impeller | Cast Iron |
| 4 | Stamping | Electrical Sheet Steel |
| 5 | Motor Shaft | Stainless Steel |
| 6 | Winding wire | Poly wrap Copper conductor |
| 7 | Bearing bush | Leaded tin bronze |
| 8 | Cable | PVC Insulated & PVC sheathed Flat type |
| 9 | Breather diaphram | Nitrile Rubber |

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## Horizontal Openwell Submersible Pumps
## Approximate Performance chart at 230 V, 1PH, 50 Hz, AC Supply

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 18 | 20 | 22 | 24 | 26 | 28 |
| | | | | Discharge in LPM | | | | | |
| PUOW1W3.0065A50A7-30 | 50 | 3.00 | 2.20 | 470 | 430 | 380 | 320 | 270 | 150 |

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 12 | 16 | 18 | 20 | 22 | 24 | 28 | 32 |
| | | | | Discharge in LPM | | | | | | | |
| PUOW1W3.0065A509E-30 | 50 | 3.00 | 2.20 | | | 600 | 580 | 540 | 490 | 380 | 200 |
| PUOW1W3.0065A659E-30 | 65 | 3.00 | 2.20 | 700 | 680 | 610 | 560 | 450 | | | |

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 16 | 18 | 20 | 22 | 26 | 28 | 30 | 36 | 40 |
| | | | | Discharge in LPM | | | | | | | | |
| PUOW1W5.0065A509E-50 | 50 | 5.00 | 3.70 | | | | 700 | 620 | 580 | 530 | 350 | 180 |
| PUOW1W5.0065A659E-50 | 65 | 5.00 | 3.70 | 770 | 690 | 680 | 670 | 630 | 610 | | | |

## Horizontal Openwell Submersible Pumps
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 18 | 20 | 22 | 24 | 26 | 28 |
| | | | | Discharge in LPM | | | | | |
| PUOW3W3.0065A50A7-30 | 50 | 3.00 | 2.20 | 470 | 430 | 380 | 320 | 270 | 150 |

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 20 | 22 | 24 | 26 | 28 | 30 |
| | | | | Discharge in LPM | | | | | |
| PUOW3W5.0065A50A7-50 | 50 | 5.00 | 3.70 | 550 | 520 | 460 | 400 | 330 | 200 |

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 12 | 16 | 18 | 20 | 22 | 24 | 28 | 32 |
| | | | | Discharge in LPM | | | | | | | |
| PUOW3W3.0065A509E-30 | 50 | 3.00 | 2.20 | | | 600 | 580 | 540 | 490 | 380 | 200 |
| PUOW3W3.0065A659E-30 | 65 | 3.00 | 2.20 | 700 | 680 | 610 | 560 | 450 | | | |

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 16 | 18 | 20 | 22 | 26 | 28 | 30 | 36 | 40 |
| | | | | Discharge in LPM | | | | | | | | |
| PUOW3W5.0065A50A9-50 | 50 | 5.00 | 3.70 | | | | 700 | 620 | 580 | 530 | 350 | 180 |
| PUOW3W5.0065A65A9-50 | 65 | 5.00 | 3.70 | 770 | 690 | 680 | 670 | 630 | 610 | | | |

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 22 | 26 | 28 | 30 | 32 | 36 | 40 | 44 | 46 |
| | | | | Discharge in LPM | | | | | | | | |
| PUOW3W7.5065A50A9-75 | 50 | 7.50 | 5.50 | | | | 850 | 820 | 720 | 600 | 420 | 300 |
| PUOW3W7.5075A65A9-75 | 65 | 7.50 | 5.50 | 1200 | 1060 | 970 | 870 | 760 | 450 | | | |

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 40 | 42 | 44 | 46 | 48 | 50 |
| | | | | Discharge in LPM | | | | | |
| PUOW3W10.065A50A9-10 | 50 | 10.00 | 7.50 | 720 | 670 | 600 | 510 | 430 | 250 |

| Material Code | Outlet Size (mm) | HP | kW | Head in Meters | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 20 | 22 | 24 | 28 | 30 | 32 | 36 |
| | | | | Discharge in LPM | | | | | | |
| PUOW3W10.075A75A9-10 | 75 | 10.00 | 7.50 | 1400 | 1300 | 1240 | 1100 | 900 | 840 | 650 |

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# VERTICAL OPENWELL SUBMERSIBLE PUMPS

### SALIENT FEATURES

1. Water Lubricated Motor
2. Higher Operating Efficiency
3. Precise machined parts for longer life & Durability
4. Dynamically balanced Rotating parts to ensure minimum vibration
5. Wide voltage band and better performance in low voltage
6. High Quality carbon+ SS Thrust bearing used for smooth functioning
7. Stainless steel Rotor shaft

### APPLICATION

1. Agriculture Water supply
2. Irrigation of farms
3. Civil work and construction sites
4. Public water Supply to large residence areas and multi storied apartments.
5. Water supply to commercial establishments like Hotels, High-Rise Buildings & Hospitals etc.
6. Irrigation from River & canal
7. Fountains

### MATERIAL OF CONSTRUCTION (MOTOR)

| SR. NO. | PART | MATERIAL |
|---|---|---|
| 1 | Motor Body | Cast Iron |
| 2 | Stamping | Electrical Sheet Steel |
| 3 | Motor Shaft | Chrome Steel |
| 4 | Winding wire | Poly wrap Copper conductor |
| 5 | Bearing bush | Leaded tin bronze |
| 6 | Cable | PVC Insulated & PVC sheathed Flat type |
| 7 | Breather diaphram | Nitrile Rubber |

### MATERIAL OF CONSTRUCTION (PUMP)

| SR. NO. | PART | MATERIAL |
|---|---|---|
| 1 | Suction Casing | Cast Iron |
| 2 | Delivery Casing | Cast Iron |
| 3 | Bowl | Cast Iron |
| 4 | Impeller | Stainless Steel |
| 5 | Pump Shaft | Chrome Steel |
| 6 | Sleeve | Stainless Steel |
| 7 | Bush | Leaded tin bronze / Nitrile Rubber |

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## Vertical Openwell Submersible Pumps
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Outlet Size (mm) | Stage | HP | kW | Head in Meters | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 28 | 32 | 36 | 40 | 42 | 44 | 48 | 52 | 56 | 58 | 60 |
| | | | | | Discharge in LPM | | | | | | | | | | |
| PUVO3A5.002-JVM52 | 65 | 2 | 5.00 | 3.70 | 650 | 580 | 460 | 340 | 240 | 150 | | | | | |
| PUVO3A5.003-JVM53 | 65 | 3 | 5.00 | 3.70 | | | | 500 | 480 | 460 | 430 | 350 | 230 | 180 | 130 |

| Material Code | Outlet Size (mm) | Stage | HP | kW | Head in Meters | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 |
| | | | | | Discharge in LPM | | | | | | | | | |
| PUVO3A7.502-JVM752 | 65 | 2 | 7.50 | 5.50 | 750 | 680 | 600 | 490 | 350 | 200 | | | | |
| PUVO3A7.503-JVM753 | 65 | 3 | 7.50 | 5.50 | | 750 | 720 | 680 | 620 | 570 | 500 | 430 | 320 | 160 |

| Material Code | Outlet Size (mm) | Stage | HP | kW | Head in Meters | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 48 | 54 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 92 | 100 |
| | | | | | Discharge in LPM | | | | | | | | | | |
| PUVO3A7.504-JVM754 | 65 | 4 | 7.50 | 5.50 | 600 | 570 | 500 | 450 | 400 | 290 | 180 | | | | |
| PUVO3A7.505-JVM755 | 65 | 5 | 7.50 | 5.50 | | | | | 460 | 425 | 390 | 355 | 320 | 200 | 100 |

| Material Code | Outlet Size (mm) | Stage | HP | kW | Head in Meters | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 32 | 38 | 44 | 50 | 56 | 62 | 68 | 74 | 80 | 84 |
| | | | | | Discharge in LPM | | | | | | | | | |
| PUVO3A10.03-JVM103 | 65 | 3 | 10.00 | 7.50 | 800 | 735 | 660 | 560 | 460 | 295 | 130 | | | |
| PUVO3A10.04-JVM104 | 65 | 4 | 10.00 | 7.50 | | | 750 | 700 | 650 | 580 | 520 | 430 | 285 | 170 |

| Material Code | Outlet Size (mm) | Stage | HP | kW | Head in Meters | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 68 | 76 | 84 | 92 | 100 | 108 |
| | | | | | Discharge in LPM | | | | | |
| PUVO3A10.05-JVM105 | 65 | 5 | 10.00 | 7.50 | 440 | 400 | 350 | 250 | 180 | 100 |

| Material Code | Outlet Size (mm) | Stage | HP | kW | Head in Meters | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 40 | 48 | 56 | 64 | 72 | 80 | 88 |
| | | | | | Discharge in LPM | | | | | | |
| PUVO3A12.54-JVM1254 | 65 | 4 | 12.50 | 9.30 | 880 | 810 | 760 | 660 | 540 | 420 | 230 |

| Material Code | Outlet Size (mm) | Stage | HP | kW | Head in Meters | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 56 | 64 | 72 | 80 | 84 | 92 | 100 | 104 | 108 | 112 | 116 |
| | | | | | Discharge in LPM | | | | | | | | | | |
| PUVO3A12.55-JVM1255 | 65 | 5 | 12.50 | 9.30 | 740 | 670 | 620 | 550 | 500 | 335 | 150 | 110 | | | |
| PUVO3A12.56-JVM1256 | 65 | 6 | 12.50 | 9.30 | | | | | 530 | 460 | 370 | 295 | 220 | 165 | 110 |

| Material Code | Outlet Size (mm) | Stage | HP | kW | Head in Meters | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 72 | 80 | 88 | 96 | 104 | 112 | 120 | 128 |
| | | | | | Discharge in LPM | | | | | | | |
| PUVO3A15.06-JVM156 | 65 | 6 | 15.00 | 11.00 | 810 | 760 | 700 | 650 | 580 | 510 | 420 | 210 |

| Material Code | Outlet Size (mm) | Stage | HP | kW | Head in Meters | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 88 | 96 | 104 | 112 | 120 | 128 | 144 | 160 | 168 |
| | | | | | Discharge in LPM | | | | | | | | |
| PUVO3A20.08-JVM208 | 65 | 8 | 20.00 | 15.00 | 750 | 720 | 700 | 660 | 640 | 630 | 500 | 250 | 170 |

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# CENTRIFUGAL MONOBLOC PUMPS('B' CLASS & 'F' CLASS)

### SALIENT FEATURES

1. Totally Enclosed Fan cooled Motor
2. Wound with Super Enamelled copper wire
3. Suction up to 7.5 meters
4. High tensile strength Cast Iron Impeller
5. High Quality and long life Mechanical Seal
6. In-built Thermal Overload Protector (TOP)
7. Operated in wide voltage band
8. Dynamically balanced rotating parts to ensure minimum vibration

### APPLICATION

1. Agriculture Water supply
2. Irrigation of farms
3. Irrigation from River & canal
4. Water circulation

### MATERIAL OF CONSTRUCTION

| SR. NO. | PART | MATERIAL |
|---|---|---|
| 1 | Motor Body | Cast Iron |
| 2 | Pump Casing | Cast Iron |
| 3 | Impeller | Cast Iron |
| 4 | Stamping | Electrical Sheet Steel |
| 5 | Motor Shaft | Chrome Steel |
| 6 | Winding wire | Enameled Copper Wire |
| 7 | Ball Bearing | Double Shielded Ball Bearing |
| 8 | Mechanical Seal | Ceramic ,SS & Carbon Combined |

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## Centrifugal Monobloc Pumps
## Approximate Performance chart at 220 V, 1PH, 50 Hz, AC Supply

| Material Code | Pipe Size (mm x mm) | HP | kW | Head in Meters | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 6 | 8 | 9 | 10 | 12 | 14 | 15 | 18 | 20 | 22 |
| | | | | Discharge in LPM | | | | | | | | | |
| PUCF1C05025A25L-45* | 25x25 | 0.50 | 0.37 | 88 | 80 | 72 | 64 | 56 | 45 | 35 | | | |
| PUCF1C05025A25L-60* | 25x25 | 0.50 | 0.37 | 120 | 115 | 110 | 105 | 100 | 85 | 70 | 40 | | |
| PUCF1C05025A25L-60EX* | 25x25 | 0.50 | 0.37 | 120 | 115 | 110 | 105 | 100 | 85 | 70 | 40 | | |
| PUCF1C05025A25L-80* | 25x25 | 0.50 | 0.37 | | | | | 110 | 100 | 90 | 75 | 50 | 25 |
| PUCF1C0.5025A25L-021 | 25x25 | 0.50 | 0.37 | | 116 | 110 | 106 | 90 | 70 | | | | |
| PUCF1C0.5040A40L-023 | 40x40 | 0.50 | 0.37 | 270 | 235 | 220 | 205 | 110 | | | | | |
| PUCF1C0.5040A40X-025 | 40x40 | 0.50 | 0.37 | 270 | 235 | 220 | 205 | 110 | | | | | |
| PUCF1C0.5050A50L-026 | 50X50 | 0.50 | 0.37 | 300 | 230 | 190 | 150 | | | | | | |
| PUCF1C0.5050A50X-027 | 50X50 | 0.50 | 0.37 | 300 | 230 | 190 | 150 | | | | | | |

| Material Code | Pipe Size (mm x mm) | HP | kW | Head in Meters | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 6 | 8 | 9 | 10 | 12 | 15 | 16 | 18 | 21 | 24 | 27 |
| | | | | Discharge in LPM | | | | | | | | | | |
| PUCF1C1.0032A25X-90* | 32x25 | 1.00 | 0.75 | | | 128 | 127 | 126 | 123 | 120 | 118 | 108 | 82 | 33 |
| PUCF1C1.0032C25X-90 | 32x25 | 1.00 | 0.75 | | | 128 | 127 | 126 | 123 | 120 | 118 | 108 | 82 | 33 |
| PUCF1C1.0025A25L-031 | 25x25 | 1.00 | 0.75 | | | | | | | 200 | 195 | 145 | 70 | |
| PUCF1C1.0050A50L-033 | 50x50 | 1.00 | 0.75 | 480 | 450 | 435 | 425 | 275 | | | | | | |
| PUCF1C1.0050A50X-034 | 50x50 | 1.00 | 0.75 | 480 | 450 | 435 | 425 | 275 | | | | | | |
| PUCF2C1.0050A50L-035 | 50x50 | 1.00 | 0.75 | 480 | 450 | 435 | 425 | 275 | | | | | | |
| PUCF1C1.0075A75L-037 | 75x75 | 1.00 | 0.75 | 700 | 420 | 180 | | | | | | | | |
| PUCF1C1.0075A75X-038 | 75x75 | 1.00 | 0.75 | 700 | 420 | 180 | | | | | | | | |

| Material Code | Pipe Size (mm x mm) | HP | kW | Head in Meters | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| | | | | Discharge in LPM | | | | | | |
| PUCF1C1.5050A50L-041 | 50x50 | 1.50 | 1.10 | | 470 | 440 | 365 | 235 | | |
| PUCF2C1.5050A50L-043 | 50x50 | 1.50 | 1.10 | | 470 | 440 | 365 | 235 | | |
| PUCF1C1.5065A50L-044 | 65x50 | 1.50 | 1.10 | | | 460 | 400 | 360 | 270 | 180 |
| PUCF2C1.5065A50L-045 | 65x50 | 1.50 | 1.10 | | | 460 | 400 | 360 | 270 | 180 |
| PUCF1C1.5075A75L-047 | 75X75 | 1.50 | 1.10 | 750 | 460 | 240 | | | | |

| Material Code | Pipe Size (mm x mm) | HP | kW | Head in Meters | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 22 |
| | | | | Discharge in LPM | | | | | | | |
| PUCF1C2.0050A50L-055 | 50x50 | 2.00 | 1.50 | | 500 | 440 | 415 | 385 | 340 | 215 | 195 |
| PUCF1C2.0065A50L-057 | 65x50 | 2.00 | 1.50 | 625 | 590 | 540 | 490 | 460 | 380 | 250 | |
| PUCF2C2.0065A50L-058 | 65x50 | 2.00 | 1.50 | 625 | 590 | 540 | 490 | 460 | 380 | 250 | |
| PUCF1C2.0075A75L-063 | 75x75 | 2.00 | 1.50 | 830 | 700 | 590 | 500 | | | | |
| PUCF2C2.0075A75L-064 | 75x75 | 2.00 | 1.50 | 830 | 700 | 590 | 500 | | | | |

| Material Code | Pipe Size (mm x mm) | HP | kW | Head in Meters | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6 | 8 | 10 | 12 | 14 | 16 |
| | | | | Discharge in LPM | | | | | |
| PUCF1C3.0075A75L-091 | 75X75 | 3.00 | 2.20 | | 1050 | 870 | 790 | 675 | 450 |
| PUCF2C3.0075A75L-092 | 75x75 | 3.00 | 2.20 | | 1050 | 870 | 790 | 675 | 450 |
| PUCF1C3.0010A10L-094 | 100X100 | 3.00 | 2.20 | 1250 | 1020 | 800 | 600 | | |
| PUCF2C3.0010A10L-095 | 100X100 | 3.00 | 2.20 | 1250 | 1020 | 800 | 600 | | |

Note:- ( * ) Alluminium Motor Body

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## Centrifugal Monobloc Pumps
## Approximate Performance chart at 220 V, 1PH, 50 Hz, AC Supply

| Material Code | Pipe Size (mm x mm) | HP | kW | Head in Meters | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 22 |
| | | | | Discharge in LPM | | | | | | | |
| PUCF1C2.0050A50L-055 | 50x50 | 2.00 | 1.50 | | 500 | 440 | 415 | 385 | 340 | 215 | 195 |
| PUCF1C2.0065A50L-057 | 65x50 | 2.00 | 1.50 | 625 | 590 | 540 | 490 | 460 | 380 | 250 | |
| PUCF2C2.0065A50L-058 | 65x50 | 2.00 | 1.50 | 625 | 590 | 540 | 490 | 460 | 380 | 250 | |
| PUCF1C2.0075A75L-063 | 75x75 | 2.00 | 1.50 | 830 | 700 | 590 | 500 | | | | |
| PUCF2C2.0075A75L-064 | 75x75 | 2.00 | 1.50 | 830 | 700 | 590 | 500 | | | | |

| Material Code | Pipe Size (mm x mm) | HP | kW | Head in Meters | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6 | 8 | 10 | 12 | 14 | 16 |
| | | | | Discharge in LPM | | | | | |
| PUCF1C3.0075A75L-091 | 75X75 | 3.00 | 2.20 | | 1050 | 870 | 790 | 675 | 450 |
| PUCF2C3.0075A75L-092 | 75x75 | 3.00 | 2.20 | | 1050 | 870 | 790 | 675 | 450 |
| PUCF1C3.0010A10L-094 | 100X100 | 3.00 | 2.20 | 1250 | 1020 | 800 | 600 | | |
| PUCF2C3.0010A10L-095 | 100X100 | 3.00 | 2.20 | 1250 | 1020 | 800 | 600 | | |

Note:- ( * ) Alluminium Motor Body

## Centrifugal Monobloc Pumps
## "F" Class
## Approximate Performance chart at 220 V, 1PH, 50 Hz, AC Supply

| Material Code | Pipe Size (mm x mm) | HP | kW | Head in Meters | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 16 | 18 | 20 | 24 | 28 | 32 | 34 |
| | | | | Discharge in LPM | | | | | | |
| PUCFSP2.0050X40-JMC28 | 50 X 40 | 2.00 | 1.50 | | | 410 | 350 | 280 | 165 | |
| PUCFSP3.0065X50-JMC35 | 65 X 50 | 3.00 | 2.20 | | 400 | 380 | 360 | 340 | 290 | 210 |
| PUCFSP5.0065X50-JMC53 | 65 X 50 | 5.00 | 3.70 | 860 | 830 | 800 | 700 | 580 | 390 | 240 |

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# 75 mm BOREWELL SUBMERSIBLE PUMPSETS V3 (Water Filled)

## SALIENT FEATURES

1. Energy efficient Motor Design
2. Dynamically balanced Rotor for vibration free, Longer life and Better Efficiency
3. Totally Enclosed – Water Lubricated Motor
4. High Grade Stainless Steel Body & Shaft for Rust Prevention
5. Specially Designed Thrust Bearing for smooth operation
6. Easy starts at Low voltage
7. Impeller & Diffuser – Glass Filled Engineering Plastic to ensure efficiency and consistency
8. Replaceable wearing parts for easy maintenance and Longer life
9. Non-Return Valve in Discharge Outlet to prevent backflow
10. Radial Flow Design
11. Jacketed Construction for Ease in Assembly and Dismantling
12. Graded Cast Iron Suction Casing and Discharge Outlet

## APPLICATION

1. Irrigation & Drip Irrigation
2. Sprinkler, Gardening, Nursery & Private Bungalows
3. High Storey Buildings and Complexes
4. Domestic water supply
5. Industrial Water Supply Schemes

## MATERIAL OF CONSTRUCTION (MOTOR)

| NO. | PART | MATERIAL |
|---|---|---|
| 1 | Stator Tube | Stainless steel sheet |
| 2 | Stamping | Electrical Sheet Steel |
| 3 | Motor Shaft | Stainless Steel |
| 4 | Winding wire | Poly wrap Copper conductor |
| 5 | Bearing bush | Leaded tin bronze |
| 6 | Thrust Bearing set | Carbon + SS + Cast iron |
| 7 | Cable | PVC Insulated & PVC sheathed Flat type |

## MATERIAL OF CONSTRUCTION (PUMP)

| NO. | PART | MATERIAL |
|---|---|---|
| 1 | Suction Casing | Cast Iron |
| 2 | Delivery Casing | Cast Iron |
| 3 | Bowl | Glass Filled Noryl |
| 4 | Impeller | Glass Filled Noryl |
| 5 | Pump Pipe | Stainless steel sheet |
| 6 | Pump Shaft | Stainless Steel |
| 7 | Sleeve | Stainless Steel |
| 8 | Bush | Nitrile Rubber |

POLYCAB
*Connection Zindagi Ka*

## 75 mm Borewell Submersible Pumpsets
## V3 (Water Filled)
## Approximate Performance chart at 220 V, 1PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 48 | 45 | 42 | 39 | 36 | 33 | 27 | 21 | 0 |
| | | | | | Head in Meters | | | | | | | | |
| PUV31W0.5012A32L-001 | 12 | 0.50 | 0.37 | 32 | 14 | 17 | 19 | 22 | 24 | 26 | 29 | 31 | 42 |
| PUV31W0.7515A32L-001 | 15 | 0.75 | 0.55 | 32 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 53 |
| PUV31W1.0020A32L-001 | 20 | 1.00 | 0.75 | 32 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 70 |
| PUV31W1.2525A32L-001 | 25 | 1.25 | 0.94 | 32 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 88 |
| PUV31W1.5030A32L-001 | 30 | 1.50 | 1.10 | 32 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 105 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 60 | 57 | 54 | 51 | 48 | 45 | 39 | 30 | 0 |
| | | | | | Head in Meters | | | | | | | | |
| PUV31W0.509A32L-002 | 9 | 0.50 | 0.37 | 32 | 11 | 13 | 14 | 16 | 18 | 20 | 22 | 23 | 34 |
| PUV31W0.7512A32L-002 | 12 | 0.75 | 0.55 | 32 | 14 | 17 | 19 | 22 | 24 | 26 | 29 | 31 | 46 |
| PUV31W1.0016A32L-002 | 16 | 1.00 | 0.75 | 32 | 19 | 22 | 26 | 29 | 32 | 35 | 38 | 42 | 61 |
| PUV31W1.2520A32L-002 | 20 | 1.25 | 0.94 | 32 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 76 |
| PUV31W1.5025A32L-002 | 25 | 1.50 | 1.10 | 32 | 29 | 34 | 38 | 43 | 48 | 53 | 58 | 62 | 91 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 78 | 72 | 66 | 63 | 60 | 54 | 45 | 39 | 0 |
| | | | | | Head in Meters | | | | | | | | |
| PUV31W0.507A32L-003 | 7 | 0.50 | 0.37 | 32 | 8 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 27 |
| PUV31W0.759A32L-003 | 9 | 0.75 | 0.55 | 32 | 11 | 13 | 14 | 16 | 18 | 20 | 22 | 23 | 34 |
| PUV31W1.0010A32L-003 | 10 | 1.00 | 0.75 | 32 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 38 |
| PUV31W1.0012A32L-003 | 12 | 1.00 | 0.75 | 32 | 14 | 17 | 19 | 22 | 24 | 26 | 29 | 31 | 46 |
| PUV31W1.2515A32L-003 | 15 | 1.25 | 0.94 | 32 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 57 |
| PUV31W1.5018A32L-003 | 18 | 1.50 | 1.10 | 32 | 22 | 25 | 29 | 32 | 36 | 40 | 43 | 47 | 68 |

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# 100 mm BOREWELL SUBMERSIBLE PUMPSETS V4 (Oil Filled)

## SALIENT FEATURES

1. Totally Enclosed -Oil Lubricated Motor
2. Dynamically balanced Rotor for vibration free, Longer life and Better Efficiency
3. Energy efficient Motor Design
4. High Grade Stainless Steel Body & Shaft for Rust Prevention
5. Special Super Enameled High Quality Copper Winding Wire
6. High Quality Ball Bearings for Longer Life and Less Friction
7. Motor is Pre-Filled with food grade insulating Oil
8. Replaceable wearing parts for easy maintenance and Longer life
9. Radial Flow Design
10. Jacketed Construction for Ease in Assembly and Dismantling
11. Graded Cast Iron Suction Casing and Discharge Outlet
12. Impeller & Diffuser - Glass Filled Engineering Plastic to ensure efficiency and consistency
13. Corrosion & Abrasion resistant parts
14. Non-Return Valve in Discharge Outlet to prevent backflow

## APPLICATION

1. Irrigation & Drip Irrigation
2. Sprinkler, Gardening, Nursery & Private Bungalows
3. High Storey Buildings and Complexes
4. Domestic water supply
5. Industrial Water Supply Schemes

## MATERIAL OF CONSTRUCTION (MOTOR)

| NO. | PART | MATERIAL |
|---|---|---|
| 1 | Stator Tube | Stainless steel sheet |
| 2 | Stamping | Electrical Sheet Steel |
| 3 | Motor Shaft | Stainless Steel |
| 4 | Winding wire | Enameled Copper Wire |
| 5 | Ball Bearing | Double Shielded Ball Bearing |
| 6 | Mechanical Seal | Ceramic, SS & Carbon Combined |
| 7 | Cable | PVC Insulated & PVC sheathed Flat type |
| 8 | Breather diaphram | Nitrile Rubber |

## MATERIAL OF CONSTRUCTION (PUMP)

| NO. | PART | MATERIAL |
|---|---|---|
| 1 | Suction Casing | Cast Iron |
| 2 | Delivery Casing | Cast Iron |
| 3 | Bowl | Glass Filled Noryl |
| 4 | Impeller | Glass Filled Noryl |
| 5 | Pump Pipe | Stainless steel sheet |
| 6 | Pump Shaft | Stainless Steel |
| 7 | Sleeve | Stainless Steel |
| 8 | Bush | Nitrile Rubber |

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## 100 mm Borewell Submersible Pumpsets
## V4 (Oil Filled)
## Approximate Performance chart at 230 V, 1PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 62 | 55 | 48 | 42 | 32 | 22 | 0 |
| | | | | | Head in Meters | | | | | | |
| PUV41O1.0015A32L-002 | 15 | 1.00 | 0.75 | 32 | 38 | 45 | 53 | 60 | 68 | 75 | 85 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 100 | 85 | 75 | 65 | 55 | 40 | 0 |
| | | | | | Head in Meters | | | | | | |
| PUV41O1.0008A32L-M40 | 8 | 1.00 | 0.75 | 32 | 20 | 24 | 28 | 32 | 36 | 40 | 48 |
| PUV41O1.0010A32L-M30 | 10 | 1.00 | 0.75 | 32 | 25 | 30 | 35 | 40 | 45 | 50 | 60 |
| PUV41O1.5015A32L-M30 | 15 | 1.50 | 1.10 | 32 | 38 | 45 | 53 | 60 | 68 | 75 | 90 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 130 | 120 | 110 | 100 | 85 | 65 | 45 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV41O2.0015A40L-005 | 15 | 2.00 | 1.50 | 40 | 38 | 45 | 53 | 60 | 68 | 75 | 83 | 95 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 160 | 150 | 140 | 130 | 115 | 100 | 75 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV41O2.0008A50L-007 | 8 | 2.00 | 1.50 | 50 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 50 |
| PUV41O2.0010A50L-007 | 10 | 2.00 | 1.50 | 50 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 63 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 48 | 42 | 38 | 32 | 25 | 15 | 0 |
| | | | | | Head in Meters | | | | | | |
| V41J2O1.518 | 18 | 1.50 | 1.10 | 32 | 54 | 63 | 72 | 81 | 90 | 99 | 113 |
| V41J2O1.520 | 20 | 1.50 | 1.10 | 32 | 60 | 70 | 80 | 90 | 100 | 110 | 126 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 70 | 62 | 56 | 48 | 40 | 32 | 20 | 0 |
| | | | | | Head in Meters | | | | | | | |
| V41J4O17 | 7 | 1.00 | 0.75 | 32 | 21 | 25 | 28 | 32 | 35 | 39 | 42 | 46 |
| V41J4O1.512 | 12 | 1.50 | 1.10 | 32 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 |
| V41J4O218 | 18 | 2.00 | 1.50 | 32 | 54 | 63 | 72 | 81 | 90 | 99 | 108 | 117 |
| V41J4O220 | 20 | 2.00 | 1.50 | 32 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 75 | 70 | 65 | 60 | 52 | 42 | 35 | 0 |
| | | | | | Head in Meters | | | | | | | |
| V41R3O17 | 7 | 1.00 | 0.75 | 32 | 28 | 32 | 35 | 39 | 42 | 46 | 49 | 56 |

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# 100 mm BOREWELL SUBMERSIBLE PUMPSETS
# V4 (Water Filled)

### SALIENT FEATURES

1. Totally Enclosed – Water Lubricated Motor
2. Dynamically balanced Rotor for vibration free, Longer life and Better Efficiency
3. Energy efficient Motor Design
4. High Grade Stainless Steel Body & Shaft for Rust Prevention
5. Specially Designed Thrust Bearing for smooth operation
6. Epoxy Coated Rotor for Rust Prevention and Longer Life
7. Jacketed Construction for Ease in Assembly and Dismantling
8. Graded Cast Iron Suction Casing and Discharge Outlet
9. Impeller & Diffuser – Glass Filled Engineering Plastic to ensure efficiency and consistency
10. Non-Return Valve in Discharge Outlet to prevent backflow
11. Corrosion & Abrasion resistant parts

### APPLICATION

1. Irrigation & Drip Irrigation
2. Sprinkler, Gardening, Nursery & Private Bungalows
3. High Storey Buildings and Complexes
4. Domestic water supply
5. Industrial Water Supply Schemes

### MATERIAL OF CONSTRUCTION (MOTOR)

| NO. | PART | MATERIAL |
|---|---|---|
| 1 | Stator Tube | Stainless steel sheet |
| 2 | Stamping | Electrical Sheet Steel |
| 3 | Motor Shaft | Stainless Steel |
| 4 | Winding wire | Poly wrap Copper conductor |
| 5 | Bearing bush | Leaded tin bronze |
| 6 | Thrust Bearing set | Carbon + SS + Cast iron |
| 7 | Cable | PVC Insulated & PVC sheathed Flat type |
| 8 | Breather diaphram | Nitrile Rubber |

### MATERIAL OF CONSTRUCTION (PUMP)

| NO. | PART | MATERIAL |
|---|---|---|
| 1 | Suction Casing | Cast Iron |
| 2 | Delivery Casing | Cast Iron |
| 3 | Bowl | Glass Filled Noryl |
| 4 | Impeller | Glass Filled Noryl |
| 5 | Pump Pipe | Stainless steel sheet |
| 6 | Pump Shaft | Stainless Steel |
| 7 | Sleeve | Stainless Steel |
| 8 | Bush | Nitrile Rubber |

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## 100 mm Borewell Submersible Pumpsets
## V4 (Runner Series)
## Approximate Performance chart at 230 V, 1PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 62 | 55 | 48 | 42 | 32 | 22 | 0 |
| | | | | | Head in Meters | | | | | | |
| PUV41W1.0015A32L-M20 | 15 | 1.00 | 0.75 | 32 | 38 | 45 | 53 | 60 | 68 | 75 | 85 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 100 | 85 | 75 | 65 | 55 | 40 | 0 |
| | | | | | Head in Meters | | | | | | |
| PUV41W1.0008A32L-M40 | 8 | 1.00 | 0.75 | 32 | 20 | 24 | 28 | 32 | 36 | 40 | 48 |
| PUV41W1.0008A40L-M40 | 8 | 1.00 | 0.75 | 40 | 20 | 24 | 28 | 32 | 36 | 40 | 48 |
| PUV41W1.0010A32L-M30 | 10 | 1.00 | 0.75 | 32 | 25 | 30 | 35 | 40 | 45 | 50 | 60 |
| PUV41W1.5015A32L-M30 | 15 | 1.50 | 1.10 | 32 | 38 | 45 | 53 | 60 | 68 | 75 | 90 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 130 | 120 | 110 | 100 | 85 | 65 | 45 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV41W2.0015A40L-005 | 15 | 2.00 | 1.50 | 40 | 38 | 45 | 53 | 60 | 68 | 75 | 83 | 95 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 160 | 150 | 140 | 130 | 115 | 100 | 75 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV41W2.0008A50L-007 | 8 | 2.00 | 1.50 | 50 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 50 |
| PUV41W2.0010A50L-007 | 10 | 2.00 | 1.50 | 50 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 63 |
| PUV41W3.0012C50L-007 | 12 | 3.00 | 2.20 | 50 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 76 |
| PUV41W3.0015C50L-007 | 15 | 3.00 | 2.20 | 50 | 38 | 45 | 53 | 60 | 68 | 75 | 83 | 95 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 400 | 350 | 320 | 255 | 190 | 150 | 0 |
| | | | | | Head in Meters | | | | | | |
| PUV41W3.0008C65L-04H | 8 | 3.00 | 2.20 | 65 | 16 | 20 | 24 | 28 | 32 | 36 | 44 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 500 | 445 | 410 | 360 | 310 | 200 | 0 |
| | | | | | Head in Meters | | | | | | |
| V41C22W37 | 7 | 3.00 | 2.20 | 65 | 14 | 18 | 21 | 25 | 28 | 32 | 42 |
| V41C22W38 | 8 | 3.00 | 2.20 | 65 | 16 | 20 | 24 | 28 | 32 | 36 | 48 |

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## 100 mm Borewell Submersible Pumpsets
## V4 (Runner Series)
## Approximate Performance chart at 230 V, 1PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 45 | 40 | 35 | 28 | 20 | 12 | 0 |
| | | | | | Head in Meters | | | | | | |
| V41J1W0.510 | 10 | 0.50 | 0.37 | 32 | 30 | 35 | 40 | 45 | 50 | 55 | 63 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 48 | 42 | 38 | 32 | 25 | 15 | 0 |
| | | | | | Head in Meters | | | | | | |
| V41J2W0.58 | 8 | 0.50 | 0.37 | 32 | 24 | 28 | 32 | 36 | 40 | 44 | 51 |
| V41J2W0.7512 | 12 | 0.75 | 0.55 | 32 | 36 | 42 | 48 | 54 | 60 | 66 | 76 |
| V41J2W1.518 | 18 | 1.50 | 1.10 | 32 | 54 | 63 | 72 | 81 | 90 | 99 | 113 |
| V41J2W1.520 | 20 | 1.50 | 1.10 | 32 | 60 | 70 | 80 | 90 | 100 | 110 | 126 |
| V41J2W225 | 25 | 2.00 | 1.50 | 32 | 75 | 88 | 100 | 113 | 125 | 138 | 158 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 70 | 62 | 56 | 48 | 40 | 32 | 20 | 0 |
| | | | | | Head in Meters | | | | | | | |
| V41J4W17 | 7 | 1.00 | 0.75 | 32 | 21 | 25 | 28 | 32 | 35 | 39 | 42 | 46 |
| V41J4W1.512 | 12 | 1.50 | 1.10 | 32 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 |
| V41J4W218 | 18 | 2.00 | 1.50 | 32 | 54 | 63 | 72 | 81 | 90 | 99 | 108 | 117 |
| V41J4W220 | 20 | 2.00 | 1.50 | 32 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 |
| V41J4W324 | 24 | 3.00 | 2.20 | 32 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | 156 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 75 | 70 | 65 | 60 | 52 | 42 | 35 | 0 |
| | | | | | Head in Meters | | | | | | | |
| V41R3W17 | 7 | 1.00 | 0.75 | 32 | 28 | 32 | 35 | 39 | 42 | 46 | 49 | 56 |

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## 100 mm Borewell Submersible Pumpsets
## V4 (Imperial Series)
## Approximate Performance chart at 230/415 V, 1PH/3PH, 50 Hz, AC Supply

| Material Code | Type | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 45 | 35 | 25 | 15 | 5 | 0 |
| | | | | | | Head in Meters | | | | | |
| V41WR25T116 | WF | 16 | 1.00 | 0.75 | 32 | 41 | 63 | 81 | 96 | 108 | 112 |
| V41WR25T118 | WF | 18 | 1.00 | 0.75 | 32 | 46 | 71 | 91 | 108 | 122 | 126 |
| V41WR25T232 | WF | 32 | 2.00 | 1.50 | 32 | 82 | 126 | 162 | 192 | 216 | 224 |

| Material Code | Type | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 50 | 40 | 30 | 20 | 10 | 0 |
| | | | | | | Head in Meters | | | | | |
| V41WR3T0.7512 | WF | 12 | 0.75 | 0.55 | 32 | 24 | 46 | 64 | 77 | 86 | 90 |
| V41WR3T115 | WF | 15 | 1.00 | 0.75 | 32 | 30 | 57 | 80 | 96 | 108 | 112 |
| V41WR3T1.520 | WF | 20 | 1.50 | 1.10 | 32 | 40 | 76 | 106 | 128 | 144 | 150 |
| V41WR3T1.524 | WF | 24 | 1.50 | 1.10 | 32 | 48 | 91 | 127 | 154 | 173 | 180 |
| V41WR3T230 | WF | 30 | 2.00 | 1.50 | 32 | 60 | 114 | 159 | 192 | 216 | 225 |
| V43WR3T338 | WF | 38 | 3.00 | 2.20 | 32 | 76 | 144 | 201 | 243 | 274 | 285 |
| V41WR3T338 | WF | 38 | 3.00 | 2.20 | 32 | 76 | 144 | 201 | 243 | 274 | 285 |
| V43WR3T342 | WF | 42 | 3.00 | 2.20 | 32 | 84 | 160 | 223 | 269 | 302 | 315 |
| V41WR3T342 | WF | 42 | 3.00 | 2.20 | 32 | 84 | 160 | 223 | 269 | 302 | 315 |

| Material Code | Type | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 55 | 45 | 35 | 25 | 15 | 0 |
| | | | | | | Head in Meters | | | | | |
| V41WR35T112 | WF | 12 | 1.00 | 0.75 | 32 | 30 | 49 | 65 | 80 | 90 | 95 |
| V41WR35T1.517 | WF | 17 | 1.50 | 1.10 | 32 | 43 | 70 | 92 | 113 | 128 | 135 |
| V41WR35T220 | WF | 20 | 2.00 | 1.50 | 32 | 50 | 82 | 108 | 133 | 150 | 156 |
| V41WR35T224 | WF | 24 | 2.00 | 1.50 | 32 | 60 | 98 | 130 | 160 | 180 | 188 |
| V41WR35T226 | WF | 26 | 2.00 | 1.50 | 32 | 65 | 107 | 140 | 173 | 195 | 202 |
| V43WR35T330 | WF | 30 | 3.00 | 2.20 | 32 | 75 | 123 | 162 | 200 | 225 | 234 |
| V41WR35T330 | WF | 30 | 3.00 | 2.20 | 32 | 75 | 123 | 162 | 200 | 225 | 234 |

| Material Code | Type | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 90 | 70 | 60 | 50 | 40 | 30 | 10 | 0 |
| | | | | | | Head in Meters | | | | | | | |
| V41WR5T0.56 | WF | 6 | 0.50 | 0.37 | 32 | 14 | 24 | 28 | 32 | 35 | 38 | 43 | 45 |
| V41WR5T0.758 | WF | 8 | 0.75 | 0.55 | 32 | 18 | 32 | 38 | 42 | 47 | 50 | 57 | 60 |
| V41WR5T110 | WF | 10 | 1.00 | 0.75 | 32 | 23 | 40 | 47 | 53 | 59 | 63 | 71 | 75 |
| V41WR5T1.515 | WF | 15 | 1.50 | 1.10 | 32 | 35 | 60 | 71 | 80 | 88 | 95 | 107 | 113 |
| V41WR5T220 | WF | 20 | 2.00 | 1.50 | 32 | 46 | 80 | 94 | 106 | 117 | 126 | 142 | 150 |
| V43WR5T542 | WF | 42 | 5.00 | 3.70 | 32 | 97 | 168 | 197 | 223 | 246 | 265 | 298 | 315 |
| V43WR5T545 | WF | 45 | 5.00 | 3.70 | 32 | 104 | 180 | 212 | 239 | 263 | 284 | 320 | 337 |

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## 100 mm Borewell Submersible Pumpsets
## V4 (Imperial Series)
## Approximate Performance chart at 230/415 V, 1PH/3PH, 50 Hz, AC Supply

| Material Code | Type | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 0 |
| | | | | | | Head in Meters | | | | | | | |
| V41WR6T1.512 | WF | 12 | 1.50 | 1.10 | 32 | 32 | 46 | 56 | 67 | 77 | 84 | 89 | 95 |
| V43WR6T320 | WF | 20 | 3.00 | 2.20 | 32 | 54 | 76 | 94 | 112 | 128 | 140 | 148 | 158 |
| V41WR6T320 | WF | 20 | 3.00 | 2.20 | 32 | 54 | 76 | 94 | 112 | 128 | 140 | 148 | 158 |
| V43WR6T324 | WF | 24 | 3.00 | 2.20 | 32 | 65 | 91 | 113 | 134 | 154 | 168 | 178 | 190 |
| V41WR6T324 | WF | 24 | 3.00 | 2.20 | 32 | 65 | 91 | 113 | 134 | 154 | 168 | 178 | 190 |
| V43WR6T538 | WF | 38 | 5.00 | 3.70 | 32 | 103 | 144 | 179 | 213 | 243 | 266 | 281 | 300 |

| Material Code | Type | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 100 | 90 | 80 | 70 | 60 | 50 | 40 | 0 |
| | | | | | | Head in Meters | | | | | | | |
| V43WR7T530 | WF | 30 | 5.00 | 3.70 | 38 | 93 | 114 | 135 | 155 | 173 | 188 | 201 | 240 |
| V43WR7T536 | WF | 36 | 5.00 | 3.70 | 38 | 112 | 137 | 162 | 185 | 207 | 225 | 241 | 288 |
| V43WR7T7.550 | WF | 50 | 7.50 | 5.50 | 38 | 155 | 190 | 225 | 258 | 288 | 313 | 335 | 400 |

| Material Code | Type | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 190 | 160 | 140 | 120 | 100 | 80 | 50 | 0 |
| | | | | | | Head in Meters | | | | | | | |
| V41WR12T1.57 | WF | 7 | 1.50 | 1.10 | 38 | 15 | 25 | 30 | 35 | 39 | 42 | 46 | 49 |
| V43WR12T315 | WF | 15 | 3.00 | 2.20 | 38 | 32 | 53 | 65 | 75 | 84 | 90 | 98 | 105 |
| V41WR12T315 | WF | 15 | 3.00 | 2.20 | 38 | 32 | 53 | 65 | 75 | 84 | 90 | 98 | 105 |
| V43WR12T525 | WF | 25 | 5.00 | 3.70 | 38 | 53 | 88 | 109 | 125 | 140 | 150 | 163 | 175 |
| V43WR12T7.535 | WF | 35 | 7.50 | 5.50 | 38 | 74 | 123 | 152 | 175 | 196 | 210 | 228 | 245 |

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# 150 mm & 200 mm BOREWELL SUBMERSIBLE PUMPSETS V6 & V8

## SALIENT FEATURES

1. Energy efficient Motor Design
2. Low Operating Cost (Low Power Consumption)
3. Dynamically balanced Rotor for vibration free, Longer life and Better Efficiency
4. High Grade Stainless Steel Body & Shaft for Rust Prevention
5. Specially Designed Thrust Bearing for smooth operation
6. Epoxy Coated Rotor for Rust Prevention and Longer Life
7. Quality Insulated Copper Winding Wire with Insulation Class-B
8. Rubber diaphragm provided at the bottom of the motor to compensate thermal expansion of water
9. Suitable for low Voltage Operation particular field condition
10. Replaceable wearing parts for easy maintenance and Longer life
11. Water Lubricated motor with Easily Rewindable Stator
12. Radial & Mixed Flow Design
13. Corrosion free cast Stainless Steel Impeller
14. Non-Return Valve in Discharge Outlet to prevent backflow
15. Graded Cast Iron Parts

## APPLICATION

1. Water extraction from bores of diameter 6" (150mm) and above
2. Irrigation systems for Agriculture including Drip and Sprinkler systems
3. Pressure boosting applications
4. Domestic water supply to large residences and multi storied apartments
5. Water supply to commercial establishments like Hotels, Lodges and Hospitals
6. Dewatering of mines
7. Industrial water supply


## MATERIAL OF CONSTRUCTION (MOTOR)

| NO. | PART | MATERIAL |
|---|---|---|
| 1 | Stator Tube | Stainless steel sheet |
| 2 | Stamping | Electrical Sheet Steel |
| 3 | Rotor | Laminations & Copper conductor |
| 4 | Motor Shaft | Stainless Steel |
| 5 | Winding wire | Poly wrap Copper conductor |
| 6 | Bearing bush | Leaded tin bronze |
| 7 | Thrust Bearing set | Carbon + SS + Cast iron |
| 8 | Cable | PVC Insulated & PVC sheathed Flat type |
| 9 | Breather diaphram | Nitrile Rubber |

## MATERIAL OF CONSTRUCTION (PUMP)

| NO. | PART | MATERIAL |
|---|---|---|
| 1 | Suction Casing | Cast Iron |
| 2 | Delivery Casing | Cast Iron |
| 3 | Bowl | Cast Iron |
| 4 | Impeller | Stainless Steel |
| 5 | Pump Shaft | Stainless Steel |
| 6 | Sleeve | Stainless Steel |
| 7 | Bush | Leaded tin bronze / Nitrile Rubber |

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## 150 mm Borewell Submersible Pumpsets
## V6 Radial Flow (S Type)
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 180 | 160 | 130 | 100 | 70 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0014C50RF-S3UPG) | 14 | 5.00 | 3.70 | 50 | 70 | 84 | 98 | 108 | 118 | 140 |
| PUV63W6.0018C50RF-S3(UPG) | 18 | 6.00 | 4.50 | 50 | 90 | 108 | 126 | 139 | 151 | 180 |
| PUV63W7.5020C50RF-S3(UPG) | 20 | 7.50 | 5.50 | 50 | 100 | 120 | 140 | 154 | 168 | 200 |
| PUV63W7.5025C50RF-S3(UPG) | 25 | 7.50 | 5.50 | 50 | 125 | 150 | 175 | 193 | 210 | 250 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 220 | 190 | 160 | 130 | 80 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0012C50RF-S4(UPG) | 12 | 5.00 | 3.70 | 50 | 65 | 77 | 90 | 99 | 108 | 120 |
| PUV63W6.0014C50RF-S4(UPG) | 14 | 6.00 | 4.50 | 50 | 76 | 90 | 105 | 116 | 126 | 140 |
| PUV63W6.0015C50RF-S4(UPG) | 15 | 6.00 | 4.50 | 50 | 81 | 96 | 113 | 124 | 135 | 150 |
| PUV63W7.5018C50RF-S4(UPG) | 18 | 7.50 | 5.50 | 50 | 97 | 115 | 135 | 149 | 162 | 180 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 240 | 210 | 170 | 130 | 80 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0010C50RF-S5(UPG) | 10 | 5.00 | 3.70 | 50 | 57 | 67 | 80 | 88 | 97 | 107 |
| PUV63W6.0012C50RF-S5(UPG) | 12 | 6.00 | 4.50 | 50 | 68 | 80 | 96 | 106 | 116 | 128 |
| PUV63W7.5014C50RF-S5(UPG) | 14 | 7.50 | 5.50 | 50 | 79 | 93 | 112 | 124 | 135 | 150 |
| PUV63W7.5016C50RF-S5(UPG) | 16 | 7.50 | 5.50 | 50 | 91 | 107 | 128 | 141 | 155 | 171 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 275 | 240 | 210 | 180 | 150 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0008C50RF-S6(UPG) | 8 | 5.00 | 3.70 | 50 | 48 | 56 | 64 | 70 | 75 | 88 |
| PUV63W6.0010C50RF-S6(UPG) | 10 | 6.00 | 4.50 | 50 | 60 | 70 | 80 | 88 | 94 | 110 |
| PUV63W7.5012C50RF-S6(UPG) | 12 | 7.50 | 5.50 | 50 | 72 | 84 | 96 | 105 | 113 | 132 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 320 | 280 | 240 | 200 | 175 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W6.0008C50RF-S7(UPG) | 8 | 6.00 | 4.50 | 50 | 48 | 56 | 64 | 70 | 77 | 92 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 350 | 310 | 280 | 250 | 200 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0006C50RF-S8(UPG) | 6 | 5.00 | 3.70 | 50 | 36 | 42 | 48 | 52 | 58 | 72 |
| PUV63W7.5010C50RF-S8(UPG) | 10 | 7.50 | 5.50 | 50 | 60 | 70 | 80 | 87 | 97 | 120 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 380 | 350 | 320 | 290 | 250 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0005C50RF-S1(UPG) | 5 | 5.00 | 3.70 | 50 | 30 | 35 | 40 | 44 | 48 | 63 |
| PUV63W6.0006C50RF-S1(UPG) | 6 | 6.00 | 4.50 | 50 | 36 | 42 | 48 | 53 | 58 | 75 |
| PUV63W7.5008C50RF-S1(UPG) | 8 | 7.50 | 5.50 | 50 | 48 | 56 | 64 | 70 | 77 | 100 |

Note:- ( * ) Above range will provide with CI Bowl & SS Impeller

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## 150 mm Borewell Submersible Pumpsets
## V6 Mixed Flow (S Type)
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 500 | 480 | 440 | 360 | 280 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W3.0004C65MF-S10(UPG) | 4 | 3.00 | 2.20 | 65 | 27 | 30 | 31 | 35 | 37 | 42 |
| PUV63W5.0005C65MF-S10(UPG) | 5 | 5.00 | 3.70 | 65 | 34 | 37 | 39 | 44 | 46 | 53 |
| PUV63W6.0006C65MF-S10(UPG) | 6 | 6.00 | 4.50 | 65 | 41 | 44 | 47 | 53 | 55 | 63 |
| PUV63W7.5008C65MF-S10(UPG) | 8 | 7.50 | 5.50 | 65 | 54 | 59 | 62 | 70 | 74 | 84 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 600 | 520 | 480 | 410 | 300 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0004C65MF-S12(UPG) | 4 | 5.00 | 3.70 | 65 | 25 | 29 | 31 | 34 | 37 | 42 |
| PUV63W6.0005C65MF-S12(UPG) | 5 | 6.00 | 4.50 | 65 | 31 | 36 | 39 | 43 | 46 | 53 |
| PUV63W7.5006C65MF-S12(UPG) | 6 | 7.50 | 5.50 | 65 | 38 | 44 | 47 | 51 | 56 | 63 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 750 | 675 | 600 | 450 | 380 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W6.0004C75MF-S15(UPG) | 4 | 6.00 | 4.50 | 75 | 25 | 28 | 31 | 35 | 37 | 40 |
| PUV63W7.5005C75MF-S15(UPG) | 5 | 7.50 | 5.50 | 75 | 31 | 35 | 39 | 44 | 47 | 50 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1050 | 990 | 840 | 600 | 200 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W7.5004C75MF-S20(UPG) | 4 | 7.50 | 5.50 | 75 | 22 | 28 | 32 | 36 | 41 | 44 |

Note:- ( * ) Above range will provide with CI Bowl & SS Impeller

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## 150 mm Borewell Submersible Pumpsets
## V6 Radial Flow (T Type)
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 180 | 160 | 130 | 100 | 70 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0014C50RF-T3(UPG) | 14 | 5.00 | 3.70 | 50 | 70 | 84 | 98 | 108 | 118 | 140 |
| PUV63W6.0018C50RF-T3(UPG) | 18 | 6.00 | 4.50 | 50 | 90 | 108 | 126 | 139 | 151 | 180 |
| PUV63W7.5020C50RF-T3(UPG) | 20 | 7.50 | 5.50 | 50 | 100 | 120 | 140 | 154 | 168 | 200 |
| PUV63W7.5025C50RF-T3(UPG) | 25 | 7.50 | 5.50 | 50 | 125 | 150 | 175 | 193 | 210 | 250 |
| PUV63W10.030C50RF-T3(UPG) | 30 | 10.00 | 7.50 | 50 | 150 | 180 | 210 | 231 | 252 | 300 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 220 | 190 | 160 | 130 | 80 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0012C50RF-T4(UPG) | 12 | 5.00 | 3.70 | 50 | 65 | 77 | 90 | 99 | 108 | 120 |
| PUV63W6.0014C50RF-T4(UPG) | 14 | 6.00 | 4.50 | 50 | 76 | 90 | 105 | 116 | 126 | 140 |
| PUV63W6.0015C50RF-T4(UPG) | 15 | 6.00 | 4.50 | 50 | 81 | 96 | 113 | 124 | 135 | 150 |
| PUV63W7.5018C50RF-T4(UPG) | 18 | 7.50 | 5.50 | 50 | 97 | 115 | 135 | 149 | 162 | 180 |
| PUV63W10.024C50RF-T4(UPG) | 24 | 10.00 | 7.50 | 50 | 130 | 154 | 180 | 198 | 216 | 240 |
| PUV63W12.530C50RF-T4(UPG) | 30 | 12.50 | 9.30 | 50 | 162 | 192 | 225 | 248 | 270 | 300 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 240 | 210 | 170 | 130 | 80 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0010C50RF-T5(UPG) | 10 | 5.00 | 3.70 | 50 | 57 | 67 | 80 | 88 | 97 | 107 |
| PUV63W6.0012C50RF-T5(UPG) | 12 | 6.00 | 4.50 | 50 | 68 | 80 | 96 | 106 | 116 | 128 |
| PUV63W7.5014C50RF-T5(UPG) | 14 | 7.50 | 5.50 | 50 | 79 | 93 | 112 | 124 | 135 | 150 |
| PUV63W7.5016C50RF-T5(UPG) | 16 | 7.50 | 5.50 | 50 | 91 | 107 | 128 | 141 | 155 | 171 |
| PUV63W10.020C50RF-T5(UPG) | 20 | 10.00 | 7.50 | 50 | 113 | 133 | 160 | 177 | 193 | 214 |
| PUV63W12.524C50RF-T5(UPG) | 24 | 12.50 | 9.30 | 50 | 136 | 160 | 192 | 212 | 232 | 257 |
| PUV63W15.030C50RF-T5(UPG) | 30 | 15.00 | 11.00 | 50 | 170 | 200 | 240 | 265 | 290 | 321 |
| PUV63W17.535C50RF-T5(UPG) | 35 | 17.50 | 13.00 | 50 | 198 | 233 | 280 | 309 | 338 | 375 |
| PUV63W20.040C50RF-T5(UPG) | 40 | 20.00 | 15.00 | 50 | 227 | 267 | 320 | 354 | 387 | 428 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 275 | 240 | 210 | 180 | 150 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0008C50RF-T6(UPG) | 8 | 5.00 | 3.70 | 50 | 48 | 56 | 64 | 70 | 75 | 88 |
| PUV63W6.0010C50RF-T6(UPG) | 10 | 6.00 | 4.50 | 50 | 60 | 70 | 80 | 88 | 94 | 110 |
| PUV63W7.5012C50RF-T6(UPG) | 12 | 7.50 | 5.50 | 50 | 72 | 84 | 96 | 105 | 113 | 132 |
| PUV63W10.016C50RF-T6(UPG) | 16 | 10.00 | 7.50 | 50 | 96 | 112 | 128 | 140 | 150 | 176 |
| PUV63W12.520C50RF-T6(UPG) | 20 | 12.50 | 9.30 | 50 | 120 | 140 | 160 | 175 | 188 | 220 |
| PUV63W15.024C50RF-T6(UPG) | 24 | 15.00 | 11.00 | 50 | 144 | 168 | 192 | 210 | 225 | 264 |
| PUV63W17.528C50RF-T6(UPG) | 28 | 17.50 | 13.00 | 50 | 168 | 196 | 224 | 245 | 263 | 308 |
| PUV63W20.032C50RF-T6(UPG) | 32 | 20.00 | 15.00 | 50 | 192 | 224 | 256 | 280 | 300 | 352 |

Note:- ( * ) Above range will provide with CI Bowl & SS Impeller

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## 150 mm Borewell Submersible Pumpsets
## V6 Radial Flow (T Type)
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 320 | 280 | 240 | 200 | 175 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W6.0008C50RF-T7(UPG) | 8 | 6.00 | 4.50 | 50 | 48 | 56 | 64 | 70 | 77 | 92 |
| PUV63W10.014C50RF-T7(UPG) | 14 | 10.00 | 7.50 | 50 | 84 | 98 | 112 | 123 | 135 | 161 |
| PUV63W12.516C50RF-T7(UPG) | 16 | 12.50 | 9.30 | 50 | 96 | 112 | 128 | 140 | 154 | 184 |
| PUV63W15.020C50RF-T7(UPG) | 20 | 15.00 | 11.00 | 50 | 120 | 140 | 160 | 175 | 193 | 230 |
| PUV63W17.524C50RF-T7(UPG) | 24 | 17.50 | 13.00 | 50 | 144 | 168 | 192 | 210 | 231 | 276 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 350 | 310 | 280 | 250 | 200 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0006C50RF-T8(UPG) | 6 | 5.00 | 3.70 | 50 | 36 | 42 | 48 | 52 | 58 | 72 |
| PUV63W7.5010C50RF-T8(UPG) | 10 | 7.50 | 5.50 | 50 | 60 | 70 | 80 | 87 | 97 | 120 |
| PUV63W10.012C50RF-T8(UPG) | 12 | 10.00 | 7.50 | 50 | 72 | 84 | 96 | 104 | 116 | 144 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 380 | 350 | 320 | 290 | 250 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0005C50RF-T1(UPG) | 5 | 5.00 | 3.70 | 50 | 30 | 35 | 40 | 44 | 48 | 63 |
| PUV63W6.0006C50RF-T1(UPG) | 6 | 6.00 | 4.50 | 50 | 36 | 42 | 48 | 53 | 58 | 75 |
| PUV63W7.5008C50RF-T1(UPG) | 8 | 7.50 | 5.50 | 50 | 48 | 56 | 64 | 70 | 77 | 100 |
| PUV63W10.010C50RF-T1(UPG) | 10 | 10.00 | 7.50 | 50 | 60 | 70 | 80 | 88 | 96 | 125 |

Note:- ( * ) Above range will provide with CI Bowl & SS Impeller

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## 150 mm Borewell Submersible Pumpsets
## V6 Mixed Flow (T Type)
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 500 | 480 | 440 | 360 | 280 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0005C65MF-T10(UPG) | 5 | 5.00 | 3.70 | 65 | 34 | 37 | 39 | 44 | 46 | 53 |
| PUV63W6.0006C65MF-T10(UPG) | 6 | 6.00 | 4.50 | 65 | 41 | 44 | 47 | 53 | 55 | 63 |
| PUV63W7.5008C65MF-T10(UPG) | 8 | 7.50 | 5.50 | 65 | 54 | 59 | 62 | 70 | 74 | 84 |
| PUV63W10.010C65MF-T10(UPG) | 10 | 10.00 | 7.50 | 65 | 68 | 74 | 78 | 88 | 92 | 105 |
| PUV63W12.512C65MF-T10(UPG) | 12 | 12.50 | 9.30 | 65 | 82 | 89 | 94 | 106 | 110 | 126 |
| PUV63W15.015C65MF-T10(UPG) | 15 | 15.00 | 11.00 | 65 | 102 | 111 | 117 | 132 | 138 | 158 |
| PUV63W20.020C65MF-T10(UPG) | 20 | 20.00 | 15.00 | 65 | 136 | 148 | 156 | 176 | 184 | 210 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 600 | 520 | 480 | 410 | 300 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W5.0004C65MF-T12(UPG) | 4 | 5.00 | 3.70 | 65 | 25 | 29 | 31 | 34 | 37 | 42 |
| PUV63W6.0005C65MF-T12(UPG) | 5 | 6.00 | 4.50 | 65 | 31 | 36 | 39 | 43 | 46 | 53 |
| PUV63W7.5006C65MF-T12(UPG) | 6 | 7.50 | 5.50 | 65 | 38 | 44 | 47 | 51 | 56 | 63 |
| PUV63W10.008C65MF-T12(UPG) | 8 | 10.00 | 7.50 | 65 | 50 | 58 | 62 | 68 | 74 | 84 |
| PUV63W12.510C65MF-T12(UPG) | 10 | 12.50 | 9.30 | 65 | 63 | 73 | 78 | 85 | 93 | 105 |
| PUV63W15.012C65MF-T12(UPG) | 12 | 15.00 | 11.00 | 65 | 75 | 87 | 93 | 102 | 111 | 126 |
| PUV63W20.016C65MF-T12(UPG) | 16 | 20.00 | 15.00 | 65 | 100 | 116 | 124 | 136 | 148 | 168 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 750 | 675 | 600 | 450 | 380 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W6.0004C75MF-T15(UPG) | 4 | 6.00 | 4.50 | 75 | 25 | 28 | 31 | 35 | 37 | 40 |
| PUV63W7.5005C75MF-T15(UPG) | 5 | 7.50 | 5.50 | 75 | 31 | 35 | 39 | 44 | 47 | 50 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1050 | 990 | 840 | 600 | 200 | 0 |
| | | | | | Head in Meters | | | | | |
| PUV63W7.5004C75MF-T20(UPG) | 4 | 7.50 | 5.50 | 75 | 22 | 28 | 32 | 36 | 41 | 44 |

Note:- ( * ) Above range will provide with CI Bowl & SS Impeller

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## 150 mm Borewell Submersible Pumpsets
## V6 High Head Radial Flow ( 40 feet per Stage )
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 300 | 260 | 210 | 170 | 130 | 90 | 50 | 0 |
| | | | | | Head in Meters | | | | | | | |
| V63CRN6623-34 | 4 | 3.00 | 2.20 | 50 | 24 | 30 | 36 | 39 | 42 | 44 | 46 | 48 |
| V63CRN6623-35 | 5 | 3.00 | 2.20 | 50 | 30 | 38 | 45 | 49 | 53 | 55 | 58 | 60 |
| V63CRN6623-46 | 6 | 4.00 | 3.00 | 50 | 36 | 45 | 54 | 59 | 63 | 66 | 69 | 72 |
| V63CRN6623-58 | 8 | 5.00 | 3.70 | 50 | 48 | 60 | 72 | 78 | 84 | 88 | 92 | 96 |
| V63CRN6623-610 | 10 | 6.00 | 4.50 | 50 | 60 | 75 | 90 | 98 | 105 | 110 | 115 | 120 |
| V63CRN6623-7512 | 12 | 7.50 | 5.50 | 50 | 72 | 90 | 108 | 118 | 126 | 132 | 138 | 144 |
| V63CRN6623-1015 | 15 | 10.00 | 7.50 | 50 | 90 | 113 | 135 | 147 | 158 | 165 | 173 | 180 |
| V63CRN6623-1016 | 16 | 10.00 | 7.50 | 50 | 96 | 120 | 144 | 157 | 168 | 176 | 184 | 192 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 400 | 340 | 270 | 240 | 180 | 120 | 60 | 0 |
| | | | | | Head in Meters | | | | | | | |
| V63CRN6825-34 | 4 | 3.00 | 2.20 | 50 | 20 | 30 | 38 | 42 | 46 | 50 | 52 | 54 |
| V63CRN6825-45 | 5 | 4.00 | 3.00 | 50 | 25 | 38 | 48 | 53 | 58 | 63 | 66 | 68 |
| V63CRN6825-56 | 6 | 5.00 | 3.70 | 50 | 30 | 45 | 57 | 63 | 69 | 75 | 79 | 81 |
| V63CRN6825-57 | 7 | 5.00 | 3.70 | 50 | 35 | 53 | 67 | 74 | 81 | 88 | 92 | 95 |
| V63CRN6825-68 | 8 | 6.00 | 4.50 | 50 | 40 | 60 | 76 | 84 | 92 | 100 | 105 | 108 |
| V63CRN6825-7510 | 10 | 7.50 | 5.50 | 50 | 50 | 75 | 95 | 105 | 115 | 125 | 131 | 135 |
| V63CRN6825-1012 | 12 | 10.00 | 7.50 | 50 | 60 | 90 | 114 | 126 | 138 | 150 | 157 | 162 |
| V63CRN6825-1014 | 14 | 10.00 | 7.50 | 50 | 70 | 105 | 133 | 147 | 161 | 175 | 183 | 189 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 500 | 430 | 380 | 320 | 250 | 180 | 120 | 0 |
| | | | | | Head in Meters | | | | | | | |
| V63CRN61033-33 | 3 | 3.00 | 2.20 | 65 | 14 | 21 | 27 | 32 | 36 | 39 | 41 | 44 |
| V63CRN61033-44 | 4 | 4.00 | 3.00 | 65 | 18 | 28 | 36 | 42 | 48 | 52 | 54 | 58 |
| V63CRN61033-55 | 5 | 5.00 | 3.70 | 65 | 23 | 35 | 45 | 53 | 60 | 65 | 68 | 73 |
| V63CRN61033-66 | 6 | 6.00 | 4.50 | 65 | 27 | 42 | 54 | 63 | 72 | 78 | 81 | 87 |
| V63CRN61033-757 | 7 | 7.50 | 5.50 | 65 | 32 | 49 | 63 | 74 | 84 | 91 | 95 | 102 |
| V63CRN61033-758 | 8 | 7.50 | 5.50 | 65 | 36 | 56 | 72 | 84 | 96 | 104 | 108 | 116 |
| V63CRN61033-1010 | 10 | 10.00 | 7.50 | 65 | 45 | 70 | 90 | 105 | 120 | 130 | 135 | 145 |

Note:- ( * ) Above range will provide with CI Bowl & Noryl Impeller

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## 150 mm Borewell Submersible Pumpsets
## V6 High Head Radial Flow ( 50 feet per Stage )
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 170 | 160 | 150 | 140 | 130 | 110 | 60 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV63W5.0010C50IRH-05 | 10 | 5.00 | 3.70 | 50 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 155 |
| PUV63W6.0012C50IRH-05 | 12 | 6.00 | 4.50 | 50 | 96 | 108 | 120 | 132 | 144 | 156 | 168 | 186 |
| PUV63W7.5015C50IRH-05 | 15 | 7.50 | 5.50 | 50 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 233 |
| PUV63W12.524C50IRH-05 | 24 | 12.50 | 9.30 | 50 | 192 | 216 | 240 | 264 | 288 | 312 | 336 | 372 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 220 | 205 | 190 | 170 | 150 | 130 | 100 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV63W5.0008C50IRH-06 | 8 | 5.00 | 3.70 | 50 | 64 | 72 | 80 | 88 | 96 | 104 | 112 | 124 |
| PUV63W6.0010C50IRH-06 | 10 | 6.00 | 4.50 | 50 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 155 |
| PUV63W7.5012C50IRH-06 | 12 | 7.50 | 5.50 | 50 | 96 | 108 | 120 | 132 | 144 | 156 | 168 | 186 |
| PUV63W10.016C50IRH-06 | 16 | 10.00 | 7.50 | 50 | 128 | 144 | 160 | 176 | 192 | 208 | 224 | 248 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 270 | 255 | 240 | 220 | 200 | 180 | 120 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV63W6.0008C50IRH-08 | 8 | 6.00 | 4.50 | 50 | 64 | 72 | 80 | 88 | 96 | 104 | 112 | 124 |
| PUV63W7.5010C50IRH-08 | 10 | 7.50 | 5.50 | 50 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 155 |
| PUV63W10.012C50IRH-08 | 12 | 10.00 | 7.50 | 50 | 96 | 108 | 120 | 132 | 144 | 156 | 168 | 186 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 400 | 370 | 330 | 290 | 260 | 220 | 195 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV63W5.0005C65IRH-10 | 5 | 5.00 | 3.70 | 65 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 78 |
| PUV63W7.5008C65IRH-10 | 8 | 7.50 | 5.50 | 65 | 64 | 72 | 80 | 88 | 96 | 104 | 112 | 124 |
| PUV63W10.010C65IRH-10 | 10 | 10.00 | 7.50 | 65 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 155 |
| PUV63W12.512C65IRH-10 | 12 | 12.50 | 9.30 | 65 | 96 | 108 | 120 | 132 | 144 | 156 | 168 | 186 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 450 | 430 | 390 | 360 | 320 | 280 | 240 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV63W7.5006C65IRH-12 | 6 | 7.50 | 5.50 | 65 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 93 |
| PUV63W10.008C65IRH-12 | 8 | 10.00 | 7.50 | 65 | 64 | 72 | 80 | 88 | 96 | 104 | 112 | 124 |

Note:- ( * ) Above range will provide with SS Bowl & SS Impeller

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## 200 mm Borewell Submersible Pumpsets
## V7 & V8 (Combination Series)
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1100 | 950 | 850 | 700 | 550 | 0 |
| | | | | | Head in Meters | | | | | |
| PUJ73MF7.53C-25 | 3 | 7.50 | 5.50 | 100 | 24 | 30 | 33 | 36 | 39 | 48 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1400 | 1250 | 1150 | 1050 | 900 | 0 |
| | | | | | Head in Meters | | | | | |
| PUJ73MF7.52C-40 | 2 | 7.50 | 5.50 | 100 | 16 | 20 | 22 | 24 | 26 | 34 |
| PUJ73MFL12.53C-40 | 3 | 12.50 | 9.30 | 100 | 24 | 30 | 33 | 36 | 39 | 54 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1550 | 1350 | 1250 | 1150 | 1050 | 0 |
| | | | | | Head in Meters | | | | | |
| PUJ73MF10.02C-50 | 2 | 10.00 | 7.50 | 100 | 16 | 20 | 22 | 24 | 26 | 38 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1500 | 1350 | 1150 | 850 | 650 | 0 |
| | | | | | Head in Meters | | | | | |
| PUJ83FM7.52C-40 | 2 | 7.50 | 5.50 | 100 | 20 | 22 | 26 | 30 | 32 | 38 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1700 | 1600 | 1400 | 1150 | 1000 | 0 |
| | | | | | Head in Meters | | | | | |
| PUJ83FM10.02C-50 | 2 | 10.00 | 7.50 | 100 | 20 | 22 | 26 | 30 | 32 | 40 |
| PUJ83FM15.03C-50 | 3 | 15.00 | 11.00 | 100 | 30 | 33 | 39 | 45 | 48 | 60 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1860 | 1700 | 1500 | 1300 | 1150 | 0 |
| | | | | | Head in Meters | | | | | |
| PUJ83FM12.52C-60 | 2 | 12.50 | 9.30 | 100 | 20 | 22 | 26 | 30 | 32 | 42 |

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## 200 mm Borewell Submersible Pumpsets
## V8 Radial & Mixed Flow
## Approximate Performance chart at 415 V, 3PH, 50 Hz, AC Supply

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 600 | 560 | 520 | 470 | 400 | 340 | 270 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV8RF208-25 | 8 | 20.00 | 15.00 | 75 | 59 | 80 | 102 | 128 | 142 | 150 | 157 | 170 |
| PUV8RF2510-25 | 10 | 25.00 | 18.50 | 75 | 74 | 100 | 128 | 160 | 178 | 188 | 196 | 213 |
| PUV8RF3012-25 | 12 | 30.00 | 22.00 | 75 | 89 | 120 | 154 | 192 | 214 | 226 | 235 | 256 |
| PUV8RF4016-25 | 16 | 40.00 | 30.00 | 75 | 118 | 160 | 205 | 256 | 285 | 301 | 314 | 341 |
| PUV8RF4518-25 | 18 | 45.00 | 33.00 | 75 | 133 | 180 | 230 | 288 | 320 | 338 | 353 | 383 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 670 | 620 | 575 | 530 | 480 | 380 | 290 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV8RF3010-30 | 10 | 30.00 | 22.00 | 75 | 110 | 132 | 152 | 170 | 183 | 198 | 204 | 220 |
| PUV8RF3011-30 | 11 | 30.00 | 22.00 | 75 | 121 | 145 | 167 | 187 | 201 | 218 | 224 | 242 |
| PUV8RF3512-30 | 12 | 35.00 | 26.00 | 75 | 132 | 158 | 182 | 204 | 220 | 238 | 245 | 264 |
| PUV8RF4014-30 | 14 | 40.00 | 30.00 | 75 | 154 | 185 | 213 | 238 | 256 | 277 | 286 | 308 |
| PUV8RF4515-30 | 15 | 45.00 | 33.00 | 75 | 165 | 198 | 228 | 255 | 275 | 297 | 306 | 330 |
| PUV8RF4516-30 | 16 | 45.00 | 33.00 | 75 | 176 | 211 | 243 | 272 | 293 | 317 | 326 | 352 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 745 | 695 | 655 | 600 | 580 | 540 | 490 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV8RF4012-35 | 12 | 40.00 | 30.00 | 75 | 168 | 181 | 191 | 204 | 207 | 213 | 219 | 264 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 880 | 840 | 750 | 700 | 600 | 510 | 380 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV8RF4010-40 | 10 | 40.00 | 30.00 | 75 | 133 | 145 | 161 | 170 | 182 | 193 | 205 | 225 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 880 | 800 | 760 | 725 | 600 | 500 | 400 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV8MFS103-30 | 3 | 10.00 | 7.50 | 75 | 33 | 36 | 38 | 39 | 42 | 44 | 47 | 54 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1250 | 1150 | 1000 | 910 | 820 | 750 | 650 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV8MFS12.53-40 | 3 | 12.50 | 9.30 | 75 | 30 | 34 | 39 | 42 | 44 | 47 | 49 | 63 |
| PUV8MFS154-40 | 4 | 15.00 | 11.00 | 75 | 40 | 45 | 52 | 56 | 59 | 62 | 65 | 84 |
| PUV8MFS4010-40 | 10 | 40.00 | 30.00 | 75 | 100 | 113 | 130 | 140 | 148 | 155 | 163 | 210 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1420 | 1300 | 1210 | 1100 | 970 | 850 | 690 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV8MFS153-50 | 3 | 15.00 | 11.00 | 100 | 30 | 36 | 40 | 45 | 50 | 54 | 59 | 69 |
| PUV8MFS204-50 | 4 | 20.00 | 15.00 | 100 | 40 | 48 | 53 | 60 | 67 | 72 | 78 | 92 |

| Material Code | Stage | HP | kW | Outlet Size (mm) | Discharge in LPM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1600 | 1460 | 1340 | 1150 | 1040 | 900 | 700 | 0 |
| | | | | | Head in Meters | | | | | | | |
| PUV8MFM102-50 | 2 | 10.00 | 7.50 | 100 | 22 | 25 | 27 | 30 | 32 | 34 | 36 | 44 |

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# CONTROL PANEL (Single Phase)

### SALIENT FEATURES

1. Available in Analog & Digital Display meter
2. Overload protection through Circuit Breaker
3. Easy to Install
4. Start Capacitor for torque induction by split phasing
5. Run capacitor for improving P.F. and Lower down the current intake

## Single Phase Panel
## 75 mm (V3) Pumps

| Material Code | Motor | HP | Starting Capacitor | Running Capacitor | MCB |
|---|---|---|---|---|---|
| V3PBWF(D)-0.50 | WF | 0.50 | 100-120 | 50 | 10A |
| V3PBSPWF(D)-0.75 | WF | 0.75 | 100-120 | 50 | 10A |
| V3PBSPWF(D)-1.00 | WF | 1.00 | 100-120 | 72 | 16A |
| V3PBSPWF(D)-1.25 | WF | 1.25 | 120-150 | 72 | 16A |
| V3PBSPWF(D)-1.50 | WF | 1.50 | 120-150 | 72 | 16A |
| V3PBSPWF(A)-0.50 | WF | 0.50 | 100-120 | 50 | 10A |
| V3PBSPWF(A)-0.75 | WF | 0.75 | 100-120 | 50 | 10A |
| V3PBSPWF(A)-1.00 | WF | 1.00 | 100-120 | 72 | 16A |
| V3PBSPWF(A)-1.25 | WF | 1.25 | 120-150 | 72 | 16A |
| V3PBSPWF(A)-1.50 | WF | 1.50 | 120-150 | 72 | 16A |


## Single Phase Panel
## 100 mm (V4) Pumps

| Material Code | Motor | HP | Starting Capacitor | Running Capacitor | MCB |
|---|---|---|---|---|---|
| V4PBSPOF/WF(D)-0.50 | OF/WF | 0.50 | 100-120 | 36 | 10A |
| V4PBSPOF/WF(D)-0.75 | OF/WF | 0.75 | 120-150 | 36 | 10A |
| V4PBSPOF/WF(D)-1.00 | OF/WF | 1.00 | 120-150 | 50 | 16A |
| V4PBSPOF/WF(D)-1.50 | OF/WF | 1.50 | 150-200 | 50 | 16A |
| V4PBSPOF/WF(D)-2.00 | OF/WF | 2.00 | 150-200 | 72 | 20A |
| V4PBSPWF(D)-3.00 | WF | 3.00 | 200-250 | 100 | 25A |
| V4PBSPOF(D)-3.00 | OF | 3.00 | 150-200 | 72 | 25A |
| V4PBSPOF/WF(A)-0.50 | OF/WF | 0.50 | 100-120 | 36 | 10A |
| V4PBSPOF/WF(A)-0.75 | OF/WF | 0.75 | 120-150 | 36 | 10A |
| V4PBSPOF/WF(A)-1.00 | OF/WF | 1.00 | 120-150 | 50 | 16A |
| V4PBSPOF/WF(A)-1.50 | OF/WF | 1.50 | 150-200 | 50 | 16A |
| V4PBSPOF/WF(A)-2.00 | OF/WF | 2.00 | 150-200 | 72 | 20A |
| V4PBSPWF(A)-3.00 | WF | 3.00 | 200-250 | 100 | 25A |
| V4PBSPOF(A)-3.00 | OF | 3.00 | 150-200 | 72 | 25A |

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# D.O.L STARTERS

**TECHNICAL DETAILS**

| | | |
|---|---|---|
| NO OF CONTACTS | : | 4 |
| NOMINAL RATING AT 50 Hz | : | 25 Amps at 415 Volts |
| COIL CONSUMPTION | : | 57 VA During Closing & 13 VA (6W) in Closed Condition |
| Terminal Size wire upto | : | 6 mm |

| Motor Ratings 415 V, 3 Phase | | Full Load Current (Approx.) | Relay Scale | Back-up Fuse Recommended |
|---|---|---|---|---|
| HP | kW | Amps | Amps | HRC (Amps) |
| 1.5 | 1.1 | 2.6 | 2.5-4.0 | 10 |
| 1.75 | 1.3 | 3.0 | 2.5-4.0 | 16 |
| 2 | 1.5 | 3.5 | 2.5-4.0 | 16 |
| 2.5 | 1.8 | 4.8 | 4.0-6.5 | 16 |
| 3 | 2.2 | 5.0 | 4.0-6.5 | 16 |
| 4 | 3 | 6.2 | 4.0-6.5 | 20 |
| 5 | 3.7 | 7.5 | 6.0-10.0 | 20 |
| 6 | 4.5 | 9.0 | 6.0-10.0 | 25 |
| 7.5 | 5.5 | 11.0 | 9.0-14.0 | 25 |
| 7.5 | 5.5 | 11.0 | 11.0-18.0 | 25 |
| 10 | 7.5 | 15.0 | 13.0-21.0 | 32 |
| 15 | 11 | 22.0 | 20.0-32.0 | 50 |

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## Discharge :

| | | |
|---|---|---|
| 1. Lmp Gallon | = | 4.546 Ltrs. |
| 1. Us Gallon | = | 3.785 Ltrs. |
| 1. Cu m. | = | 1000 Ltrs. |
| 1.cu ft. | = | 28.32 Ltrs. |
| DISCHARGE RATE : | | |
| $1m^3/h$ | = | 16.67 l/min. |
| $1m^3/s$ | = | 60.000 l/min. |
| 1l/s | = | 60 l/min. |
| 1 cu ft/s | = | 1699.2 l/min. |
| 1 imp. GPM | = | 0.0575 l/min. |
| | = | 0.00126 l/Sec. |
| HEAD : | | |
| 1 mtrs. | = | 3.28 ft |
| 1 ft | = | 0.3048 m |
| 1 kg. $cm^2$ | = | 10 mtrs. |
| PRESSURE : | | |
| 1 A tm os phere | = | 1.33 kg/cm3 |
| 1 A tm os phere | = | 14.7 lb/in2 |
| 1 A tm os phere | = | 10.34 mwc |
| 1 lb. $in^2$ | = | 0.704 mwc |
| 1 lb. $in^2$ | = | 2.31 ft wc |
| 1 lb. $in^2$ | = | 51.6 mm of Mercury |
| 1 cusec | = | 1705 lpm |
| | = | 1 a cre ft/hr. |
| 1 cusec | = | 20558.3 lpm |
| | = | 1 Acre ft/hr. |
| POWER : | | |
| 1 hp (Si) | = | 0.746 KW |
| | = | 746 W |
| 1 HP (Metric) | = | 0.736 KW |
| | = | 736 W |
| 1 KW | = | 1000 W |
| WEIGHT : | | |
| 1 kg | = | 1000 gm |
| 1 kg | = | 2.2046 lb |
| 1 lb | = | 0.4536 kg. |

## Discharge rate Table :

| Veenotch Reading in inch | Veenotch Reading in mm | Discharge Rate in GPH (Imp) | Discharge Rate in lmp |
|---|---|---|---|
| ½" | 12.7 | 21 | 1.59 |
| 3/4" | 19.05 | 57.05 | 4.35 |
| 1" | 24.5 | 117.22 | 8.88 |
| 1 1/4" | 31.75 | 203.8 | 15.44 |
| 1 1/2" | 38.1 | 320.5 | 24.28 |
| 1 3/4" | 44.45 | 469.52 | 35.57 |
| 2" | 50.8 | 653.8 | 49.53 |
| 2 1/4" | 57.15 | 875.56 | 66.33 |
| 2 1/2" | 63.5 | 1,137.05 | 86.14 |
| 2 3/4" | 69.85 | 1,440.12 | 109.1 |
| 3" | 76.2 | 1,786.49 | 135.39 |
| 3 1/4" | 82.55 | 2,179.45 | 165.11 |
| 3 3/4" | 95.25 | 3,108.07 | 235.46 |
| 4" | 101.6 | 3,647.56 | 276.33 |
| 4 1/4" | 107.95 | 4,239.31 | 321.16 |
| 4 1/2" | 114.3 | 4,884.92 | 370.07 |
| 4 3/4" | 120.65 | 5,585.84 | 423.17 |
| 5" | 127 | 6,343.95 | 480.6 |
| 5 1/4" | 133.35 | 7,159.55 | 542.39 |
| 5 1/2" | 139.7 | 8,034.97 | 608.71 |
| 5 3/4" | 146.05 | 8,991.64 | 676.67 |
| 6" | 152.4 | 9,970.22 | 755.32 |
| 6 1/4" | 158.75 | 11,032.43 | 835.79 |
| 6 1/2" | 165.1 | 12,159.44 | 921.17 |
| 6 3/4" | 171.45 | 13,352.46 | 1011.55 |
| 7" | 177.08 | 14,466.41 | 1095.94 |
| 7 1/4" | 184.15 | 15,941.38 | 1207.68 |
| 7 1/2" | 190.5 | 17,339.65 | 1313.61 |
| 7 3/4" | 196.85 | 18,808.55 | 1424.89 |
| 8" | 203.2 | 20,349.38 | 1541.62 |

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# Head Loss due to friction in mtr. in GI & MS delivery pipes per 100 mtrs. Length.

| Discharge in LMP | Inside Diameter of Delivery Pipe in mm | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
| 40 | 1.250 | | | | | | | | |
| 80 | 4.690 | 0.570 | | | | | | | |
| 100 | 7.000 | 0.080 | 0.662 | | | | | | |
| 150 | | 1.850 | 1.099 | 0.540 | | | | | |
| 200 | | 3.130 | 1.670 | 0.780 | 0.540 | | | | |
| 250 | | 4.750 | 2.260 | 1.310 | 0.837 | | | | |
| 300 | | 6.800 | 3.980 | 2.000 | 1.163 | 0.292 | | | |
| 400 | | | 5.970 | 2.840 | 1.983 | 0.476 | | | |
| 500 | | | | | 3.017 | 0.721 | | | |
| 600 | | | | | | 1.393 | 0.463 | | |
| 800 | | | | | | 2.206 | 0.740 | | |
| 1000 | | | | | | 2.677 | 0.887 | 0.182 | |
| 1400 | | | | | | | 1.250 | 0.305 | |
| 1800 | | | | | | | | 0.363 | |
| 2000 | | | | | | | | 0.517 | |
| 2400 | | | | | | | | | 0.138 |

## Friction losses in mtr. in Non return Valve

| Size of NRV in inch | Discharge in LPM | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 2000 | 2300 | 3000 | 3500 |
| 2" | 0.02 | 0.18 | 0.35 | | | | | | | | | | | | |
| 3" | | 0.02 | 0.08 | 0.15 | 0.22 | 0.3 | 0.43 | 0.60 | | | | | | | |
| 4" | | | | 0.04 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.28 | 0.62 | | | | |
| 5" | | | | | | | 0.02 | 0.06 | 0.8 | 0.12 | 0.25 | 0.45 | 0.60 | | |
| 6" | | | | | | | | | | 0.02 | 0.12 | 0.21 | 0.27 | 0.48 | 0.60 |

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# Submersible pumpset cable selection chart for 220 volts - single phase - 50 Hz

| H.P. | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.50 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 6.0 | 10 | 10 |
| 1.00 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 6.0 | 10 | 10 | 10 | 100 | 100 |
| 1.50 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 10 | 16 | 16 | 16 | 25 | 25 | 25 |
| 2.00 | 1.5 | 1.5 | 2.5 | 2.5 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 6.0 | 10 | 10 | 10 | 16 | 16 | 16 | 25 | 25 | 25 | 35 | 35 |
| 3.00 | 1.5 | 1.5 | 2.5 | 2.5 | 4.0 | 4.0 | 6.0 | 6.0 | 6.0 | 10 | 10 | 10 | 16 | 16 | 16 | 16 | 25 | 25 | 25 | 35 | 35 |
| 4.00 | 1.5 | 2.5 | 2.5 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 10 | 16 | 16 | 16 | 16 | 25 | 25 | 25 | 35 | 35 | 35 |
| 5.00 | 2.5 | 2.5 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 10 | 16 | 16 | 16 | 25 | 25 | 25 | 35 | 35 | 50 | 50 | 50 |

**LENGTH IN METERS.**

Conversion Table :
1 m = 3.28 ft
1 ft = 0.305 m

For other voltages the cable size is to be follows :
Calculated length = ( 220 Volt) x actual Length.

EXAMPLE 1 : For a 2 HP motor 180 volts and 70 meter actual cable length, calculated length = ( 220 180) x 70 = 85 m. The size of the cable to be selected for 85 m from the chart is 6mm$^2$

EXAMPLE 1 : For a 3 HP motor 460 volts and 100 meter actual cable length, calculated length = ( 220 460) x 100 = 48 m. The size of the cable to be selected for 48 m from the chart is 4mm$^2$

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# Submersible pumpset cable selection chart for 415 volts - three phase - 50 Hz

| H.P. | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.50 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 |
| 2.00 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 4.0 | 4.0 |
| 3.00 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 6.0 |
| 4.00 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 6.0 | 6.0 | 6.0 | 10 | 10 |
| 5.00 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 10 |
| 6.00 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 10 | 16 |
| 7.50S | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 16 | 16 | 16 |
| 7.50D | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 |
| 10.00 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 10 | 16 |
| 12.50 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 16 | 16 | 16 |
| 15.00 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4.0 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 16 | 16 | 16 | 16 |
| 17.50 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 16 | 16 | 16 | 25 | 25 |
| 20.00 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 10 | 16 | 16 | 16 | 25 | 25 | 25 |
| 25.00 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 10 | 10 | 16 | 16 | 16 | 25 | 25 | 25 | 25 |
| 30.00 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 10 | 10 | 10 | 16 | 16 | 25 | 25 | 25 | 35 | 35 |
| 40.00 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 16 | 16 | 25 | 25 | 25 | 35 | 35 | 50 | 50 |
| 50.00 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 25 | 25 | 35 | 35 | 50 | 50 | 50 | 70 |
| 60.00 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 35 | 35 | 50 | 50 | 50 | 70 | 70 |
| 70.00 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 35 | 50 | 50 | 50 | 70 | 70 | 70 |
| 80.00 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 50 | 50 | 70 | 70 | 95 | 95 |

**LENGTH IN METERS.**

Note :
1. HP 7.5D and above are STAR/DELTA motors.
2. For STAR/DELTA starting. reduce current by 1/ 3 for selecting suitable cable.

For other voltages the cable is to be selected as follows :
Calculated length = ( 415 Volt) x actual Length.

Conversion Table :
1 m = 3.28 ft
1 ft = 0.305 m

EXAMPLE 1 : For a 20 HP motor 350 volts and 90 meter actual cable length, calculated length = ( 415 350) x 90 = 107 m. The size of the cable to be selected for 170 m from the chart is 6mm$^2$

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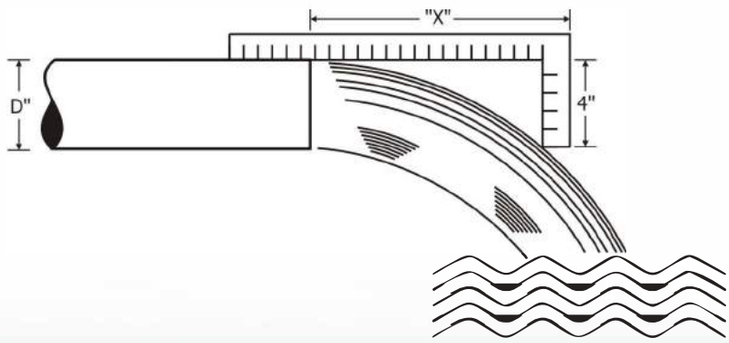
# Discharge rate (Gallons per minute)

| HORIZONTAL DISTANCE "X" IN INCHES | NOMINAL PIPE DIAMETER "D" | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1" | 1¼" | 1½" | 2" | 2½" | 3" | 4" | 5" | 6" |
| 4 | 5.7 | 9.8 | 13.3 | 22 | 31 | 49 | 83 | 130 | 190 |
| 5 | 7.1 | 12.2 | 16.6 | 28 | 39 | 61 | 104 | 165 | 240 |
| 6 | 8.5 | 14.7 | 20.0 | 33 | 47 | 73 | 125 | 195 | 285 |
| 7 | 10.0 | 17.1 | 23.2 | 39 | 55 | 85 | 146 | 230 | 335 |
| 8 | 11.3 | 19.6 | 26.5 | 44 | 62 | 98 | 166 | 260 | 380 |
| 9 | 12.8 | 22.0 | 29.8 | 50 | 70 | 110 | 187 | 295 | 430 |
| 10 | 14.2 | 24.5 | 33.2 | 55 | 78 | 122 | 208 | 325 | 475 |
| 11 | 15.6 | 26.0 | 36.5 | 61 | 86 | 134 | 229 | 360 | 555 |
| 12 | 17.0 | 29.0 | 39.0 | 66 | 94 | 147 | 250 | 390 | 570 |
| 13 | 18.5 | 31.5 | 43.0 | 72 | 101 | 159 | 270 | 425 | 620 |
| 14 | 20.0 | 34.0 | 46.5 | 77 | 109 | 171 | 291 | 450 | 665 |
| 15 | 21.3 | 36.3 | 49.6 | 83 | 117 | 183 | 312 | 490 | 710 |
| 16 | 22.7 | 39.0 | 53.0 | 88 | 125 | 196 | 333 | 520 | 760 |
| 17 | 24.1 | 41.5 | 56.3 | 94 | 133 | 208 | 353 | 555 | 810 |
| 18 | 25.5 | 43.7 | 59.6 | 99 | 140 | 220 | 374 | 590 | 850 |
| 19 | 27.0 | 46.2 | 62.9 | 105 | 148 | 232 | 395 | 620 | 905 |
| 20 | 28.4 | 48.6 | 62.2 | 111 | 156 | 244 | 416 | 650 | 950 |
| 21 | 29.8 | 51.0 | 69.5 | 116 | 164 | 256 | 437 | 685 | 1000 |
| 22 | 31.2 | 53.5 | 72.8 | 122 | 172 | 269 | 457 | 720 | 1050 |
| 23 | 32.7 | 55.9 | 76.1 | 127 | 179 | 281 | 478 | 750 | 1095 |
| 24 | 34.1 | 58.3 | 79.4 | 133 | 187 | 293 | 499 | 780 | 1140 |
| 25 | 35.5 | 60.7 | 82.7 | 138 | 195 | 306 | 520 | 815 | 1190 |
| 26 | 36.9 | 63.2 | 86.0 | 144 | 203 | 318 | 541 | 845 | 1235 |
| 27 | 38.3 | 65.6 | 89.3 | 149 | 211 | 330 | 561 | 880 | 1285 |
| 28 | 39.8 | 68.0 | 92.7 | 155 | 218 | 342 | 582 | | |
| 29 | 41.2 | 70.5 | 96.0 | 160 | 226 | 354 | 603 | | |
| 30 | 42.6 | 72.9 | 99.3 | 166 | 234 | 367 | 624 | | |
| 31 | | | 103 | 171 | 242 | 379 | | | |
| 32 | | | 106 | 177 | 250 | 391 | | | |
| 33 | | | 109 | 182 | 257 | 403 | | | |
| 34 | | | 113 | 188 | 265 | 415 | | | |
| 35 | | | 116 | 194 | 273 | 428 | | | |
| 36 | | | 119 | 199 | 281 | 440 | | | |

## DISCHARGE OUTPUT CHART :




EXAMPLE :
HORIZONTAL DISTANCE "X" = 20"
NOMINAL PIPE DIAMETER "D" = 2"
DISCHARGE Q = 111 GPM

FOR CONVERTION OF GALLONS PER MINUTE TO LITERS PER SECONDS:

$$111 \text{ GPM} = \frac{111 \times 4.54}{60} = 8.40 \text{ LPS}$$

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# Pumpset Selection for Sprinkler Application

**Calculation of total Head**

**H1** = Lowering pump set in meter
**H2** = Friction losses of horizontal pipe line ( 1% of total length)
**H3** = Vertical height of slope (if any slope)
**H4** = required pressure in each sprinkler i.e. 1 meter per sprinker
(Avg. 1 meter per Sprinkler) x No. of sprinkler
**Total Head H =H1 + H2 + H3 + H4**

**Discharge Calculation :** 30 LPM x Nos. of sprinkler

**Example for head and discharge calculation**
30LPM x No. of sprinkler for 64 meter lowering and requirement of sprinkler are 21 with 1400 (427) ft length of horizontal pipe

Actual lowering of pipe set H1 = **210 feet. (64 Mtr.)**
Total length of pipe line form last sprinkler is **1600 feet. (488 Mtr.)**
So that 1% Friction loss (H2) = **5 mtr.**
Slope in the line is absent so H3 = **0**
21 sprinklers are required so H4 = **21 meter**
Now H = 64 + 5 + 0 +21 = **90 Meter**

21 sprinkler are required. So that required Discharge
**Q = 30 LPM x 21 = 630 LPM**

**Now select the pumpset from the performance Table for 630 LPM at 90 mtr.**

**Calculation for H.P.**

$$\text{H.P.} = \frac{\text{Head (M) x Discharge (LPM)}}{\text{4500 x Pump Eff.}}$$

**Calculation for POWER FACTOR**

$$\text{P.F.} = \frac{\text{POWER INPUT}}{(\sqrt{3} \times \text{V} \times \text{A})}$$

**Calculation for Current**

$$\text{H.P.} = \frac{(\sqrt{3} \times \text{Voltage x Current x Power Factor})}{746}$$

**So that,**

$$\text{Current} = \frac{\text{H.P. x 746)}}{(\sqrt{3} \times \text{Voltage x Power Factor)}}$$

## Important Formulas :

$$\text{Water horse power} = \text{Pump output H} = \frac{\text{Head in mtrs x Discharge in 1/min.}}{4500}$$

$$\text{Shaft horse power} = \text{Motor output HP} = \frac{\text{Motor input kW x Motor efficiency in \%}}{73.6}$$

$$\text{Pump Efficiency} = \frac{\text{WHP}}{\text{SHP}}$$

$$\text{Overall Efficiency} = \frac{\text{Head in mtrs x Discharge in 1/min.}}{\text{6120 x motor input in kW}}$$

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