

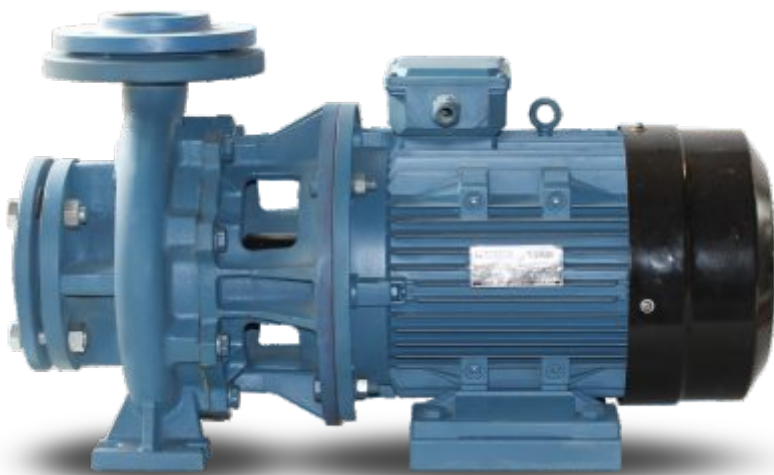


PRAKASH

Worldwide

Quality, Reliability, Life

SOLO POWER PUMP



Solo Power Pump

Applications

- Civil
- Agricultural
- Industrial or General Plant use.
- Water Supply
- Spray or flowing irrigation
- Autoclave feed
- High pressure system
- Heating
- Conditioning and any other general service requiring transfer of clean liquids.

Performance Range

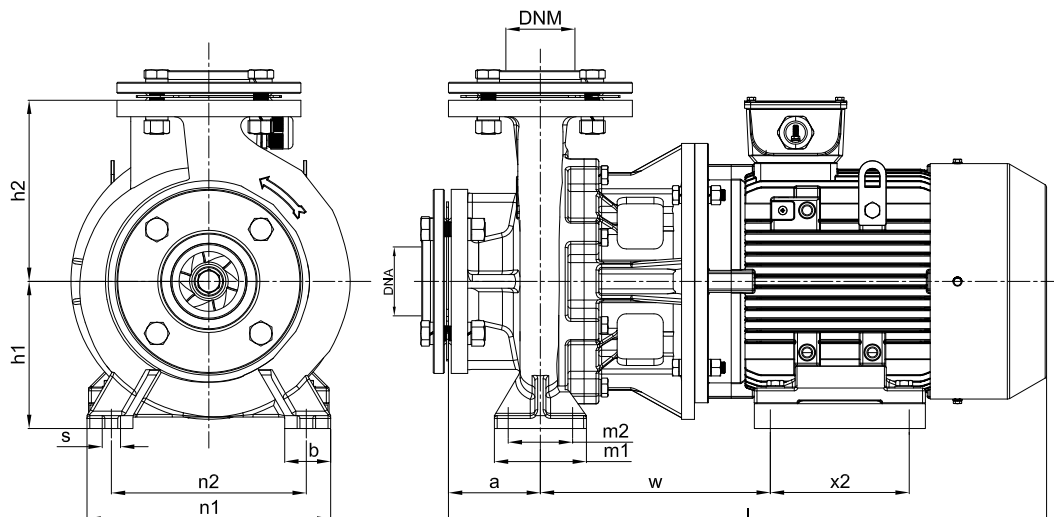
- Flow: Up to 1500 LPM
- Head: Up to 88m
- Speed 2900 RPM
- Power 2.2Kw – 22Kw.

Application Limits

- Manometric Suction Lift Up to 8m to 10m
- Liquid Temperature between 10°C to 105°C
- Ambient Temperature Up to 40°C
- Max. Working Pressure 10 Bar
- 50 Hz

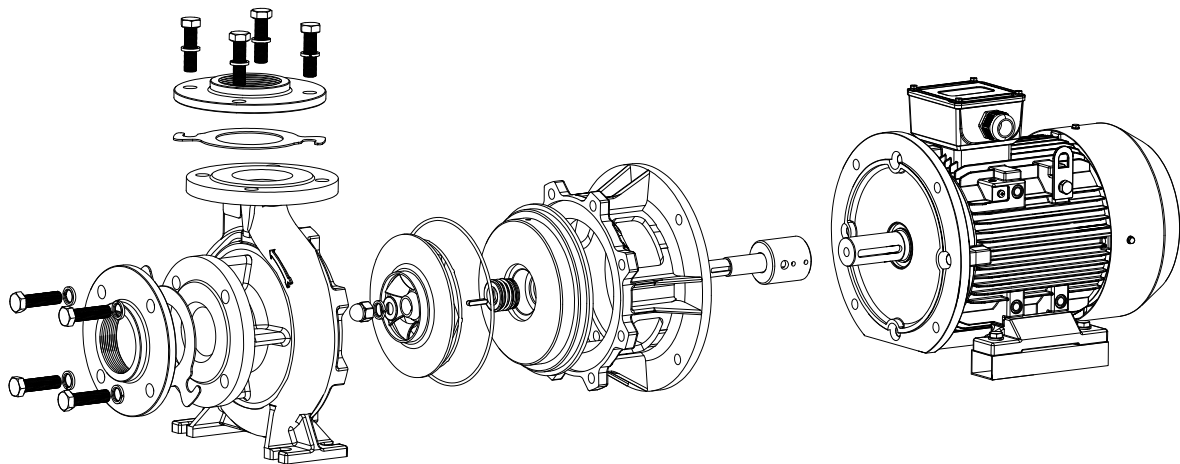
Installation and Use

These pumps are ideal for pumping clean water and other chemically and mechanically non-aggressive liquids. These system can be installed in any position, provide the inlet opening faces upwards, and, thanks to their Special design-which allows back pull out of the motor and the rotary parts Of the pump and subsequent re-assembly without having to remove the pump Body and the pipes connected to it – can be easily and conveniently used for a wide variety of applications in civil, agricultural, industrial or general plant uses. Water supply, spray or flowing irrigation, autoclave feed, high pressure system heating, conditioning and any other service requiring transfer of clean liquids

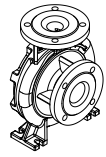


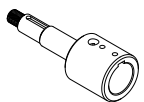
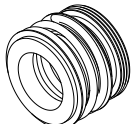

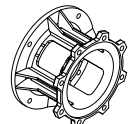


| Model | Ports | | Dimensions In MM | | | | | | | | | | | | |
|----------|-------|-----|------------------|-----|-----|----|-----|-----|-----|-----|----|----|-----|-----|------|
| | DNA | DNM | 1 | a | m1 | m2 | n1 | n2 | h1 | h2 | S | b | W | x2 | d |
| PSPP-3 | 3" | 3" | 405 | 80 | 80 | - | 240 | 190 | 120 | 165 | 11 | 50 | - | - | - |
| PSPP-5.5 | 3" | 3" | 501 | 80 | 100 | 70 | 240 | 190 | 132 | 160 | 14 | 50 | 238 | 170 | 13X4 |
| P5PP-7.5 | 3" | 3" | 544 | 100 | 100 | 70 | 265 | 212 | 160 | 200 | 14 | 14 | 257 | 140 | 14X4 |
| PSPP-10 | 3" | 3" | 544 | 100 | 100 | 70 | 265 | 212 | 160 | 200 | 14 | 50 | 257 | 140 | 14X4 |
| PSPP-15 | 3" | 3" | 703 | 100 | 100 | 70 | 265 | 212 | 160 | 200 | 14 | 50 | 306 | 210 | 14X4 |
| PSPP-20 | 3" | 3" | 703 | 100 | 100 | 70 | 265 | 212 | 160 | 200 | 14 | 50 | 306 | 210 | 14X4 |
| PSPP-25 | 3" | 3" | 755 | 100 | 125 | 95 | 320 | 250 | 180 | 225 | 14 | 65 | 313 | 254 | 14X4 |
| PSPP-30 | 3" | 3" | 782 | 100 | 125 | 95 | 320 | 250 | 180 | 225 | 14 | 65 | 326 | 241 | 14X4 |

Exploded View



Material of the Components In Contact with the Liquid

| Components | | Pump Body (Volute Chamber) | Impeller | Mechanical Seal Housing Cover | Pump Shaft | Mechanical Seal | O'Ring | Pump Bracket |
|------------|---------------------|--|--|--|--|---|--|--|
| | |  |  |  |  |  |  |  |
| Material | Standard | Cast Iron | Stainless Steel 410 | Cast Iron | Stainless Steel 410 | Mg1-SiC Standard Mechanical Seal | High Nitrile Rubber | Cast Iron |
| | Special Requirement | Stainless Steel + 304/316 | Stainless Steel 304/316 | Stainless Steel 304/316 | Stainless Steel 304/316 | Mg1-SiC/TC Viton Mechanical Seal | | |

Pump Selection Chart

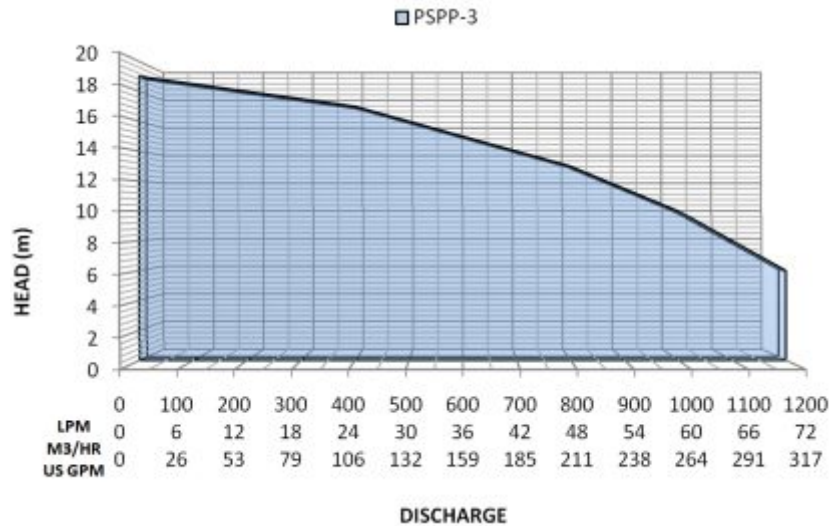
| Model | Power | | Phase | Inlet Outlet | Max. Flow (lpm) | Max. Head (m) | Max. Suction (m) |
|----------|-------|-----|-------|-----------------|-----------------|---------------|------------------|
| | KW | HP | | | | | |
| PSPP-3 | 2.2 | 3 | 3 | 3" X 3" | 1300 | 19 | 8-10 |
| PSPP-5.5 | 4 | 5.5 | | | 800 | 36 | |
| PSPP-7.5 | 5.5 | 7.5 | | | 1300 | 38 | |
| PSPP-10 | 7.5 | 10 | | | 1500 | 45 | |
| PSPP-15 | 11 | 15 | | | 1500 | 55 | |
| PSPP-20 | 15 | 20 | | | 1500 | 65 | |
| PSPP-25 | 18.5 | 25 | | | 1500 | 75 | |
| PSPP-30 | 22 | 30 | | | 1500 | 88 | |

Performance chart

RPM 2900

| Model | Power | | Q | M ³ /H | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
|--------|-------|-----|----------|-------------------|------|-----|------|-----|-----|-----|-----|-----|------|-----|------|------|------|
| | KW | HP | | LPM | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| PSPP-3 | 2.2 | 3.0 | H meters | 19 | 18.5 | 18 | 17.5 | 17 | 16 | 15 | 14 | 13 | 11.5 | 10 | 8 | 6 | |

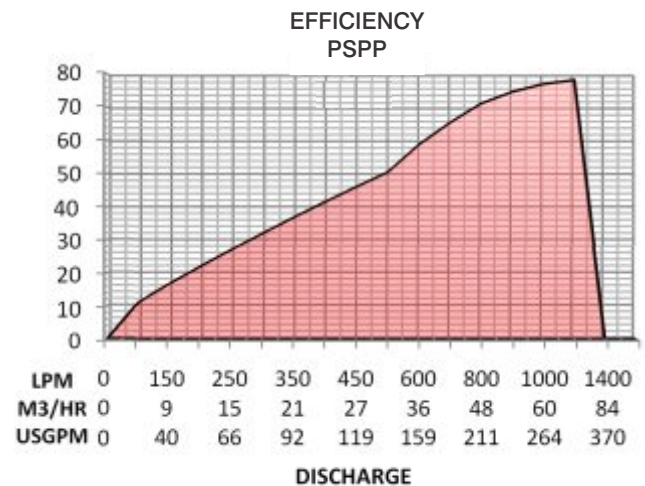
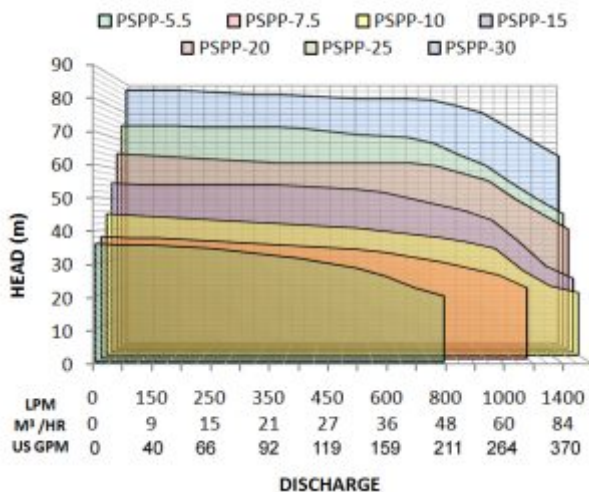
Hydraulic performance curve



Hydraulic performance chart

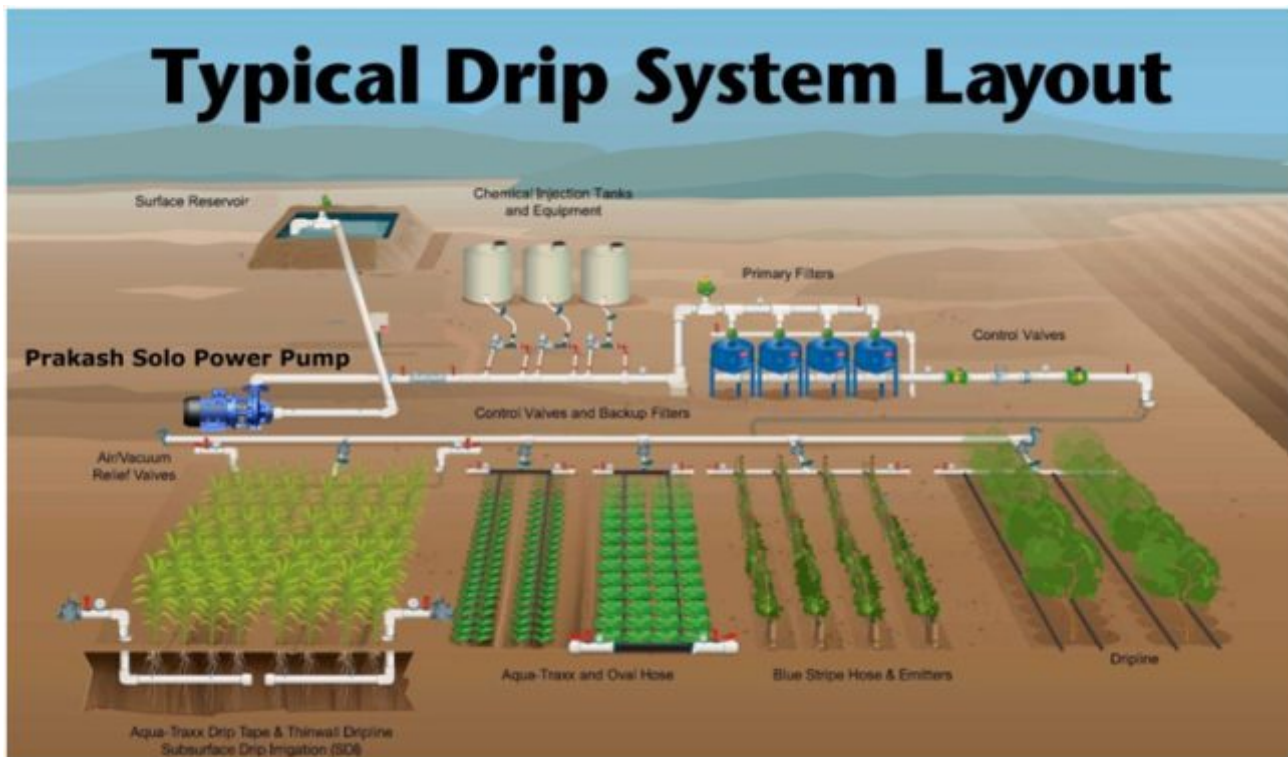
| MODEL | POWER | | Q | US GPM | 0 | 26 | 40 | 53 | 66 | 79 | 90 | 106 | 119 | 132 | 159 | 185 | 211 | 238 | 264 | 317 | 370 | 396 | |
|----------|-------|------|----------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | KW | HP | | M ³ /H | 0 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 36 | 42 | 48 | 54 | 60 | 72 | 84 | 90 | |
| PSPP-5.5 | 4.0 | 5.5 | H Meters | LPM | 0 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1500 | |
| PSPP-7.5 | 5.5 | 7.5 | | 36 | 35.5 | 35.5 | 35 | 34.5 | 33.5 | 32.5 | 31.5 | 30 | 28.5 | 26 | 22.5 | | | | | | | | |
| PSPP-10 | 7.5 | 10.0 | | 38 | 37.5 | 37.5 | 37 | 36.5 | 36 | 35.5 | 35 | 34.5 | 34 | 33 | 31.5 | 30 | 28 | 26 | 22 | | | | |
| PSPP-15 | 11.0 | 15.0 | | 45 | 44.5 | 44 | 43.5 | 43 | 42.5 | 42 | 41.5 | 41 | 40.5 | 39.5 | 38.5 | 37.5 | 36 | 34 | 27 | 22 | 20 | | |
| PSPP-20 | 15.0 | 20.0 | | 55 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54 | 53.5 | 53 | 52 | 50 | 48 | 46 | 43 | 36 | 28 | 24 | | | |
| PSPP-25 | 18.5 | 25.0 | | 65 | 64.5 | 64 | 63.5 | 63 | 62.5 | 62 | 62 | 62 | 62 | 62 | 62 | 61 | 58.5 | 56 | 50 | 45 | 40 | | |
| PSPP-30 | 22.0 | 30.0 | | 75 | 75 | 75 | 74.5 | 74.5 | 74.5 | 74.5 | 74 | 73 | 72 | 71.5 | 71 | 69 | 65 | 61.5 | 55.5 | 50 | 45 | | |
| | | | 88 | 88 | 88 | 87.5 | 87 | 86.5 | 86.5 | 86 | 86 | 85 | 85 | 85 | 84.5 | 82.5 | 80 | 75 | 70 | 65 | | | |

Hydraulic Performance Curve



What Pump Do I Need?

| | | |
|--------------------------|--|---|
| Application | Water transfer | PSPP-3, PSPP-5.5, PSPP-7.5, PSPP-10, PSPP-15, PSPP-20, PSPP-25, PSPP-30 |
| | Irrigation | |
| | Household water supply | |
| | Other | |
| Water Source | Above ground tank | |
| | Underground tank | |
| | River | |
| | Dam | |
| | Other | |
| Power Supply | 415 V Three phase | |
| Water Requirement | Household | |
| | House only | |
| | House and garden | |
| | Showers | |
| | Sprinklers | |
| | Evaporative air-conditioned connected | |
| | Irrigation | |
| | Sprinkler | |
| | Sprinkler | |
| | Automatic operation | |
| | Manual operation | |
| | Water Transfer | |
| | Lift water from Point A and discharge water to point B | |





Worldwide

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