



Quality, Reliability, Life

# Sewage Stainless Steel Pump



[www.prakashpump.com](http://www.prakashpump.com)

### Applications

- Municipal project, mining, civil engineering
- Industrial & residential building
- Equipment for garden, aquarium, landscape waterfall, water drainage and filtration.

### Application Limits

- Max. liquid temperature : up to 45 °C
- Max. ambient temperature : up to 45 °C
- Max. immersion depth : up to 5 m
- Density of liquid : 1.3g /cm<sup>3</sup>
- PH : 4 to 10

### Performance Range

- Flow : up to 115 m<sup>3</sup>/h
- Head : up to 44 m
- Speed : 2900 RPM
- Power : 3.0 - 4.0 KW

### Motor Details

- 2 Pole motor
- Protection class : IP 68
- Insulation class : F
- Power : 3.0 kW - 4.0 kW
- Power supply : three phase 380-420v, 50Hz
- Cable length : 10 m
- Duty : S1

### Feature and Benefits

- Non-clogging double vane impeller can pump large solid cove full range of head. water contact parts are all stainless steel, no rust.
- Designed for pumping sewage, waste water, rainwater and living water containing solid grains, various fabric, sludge and solid.

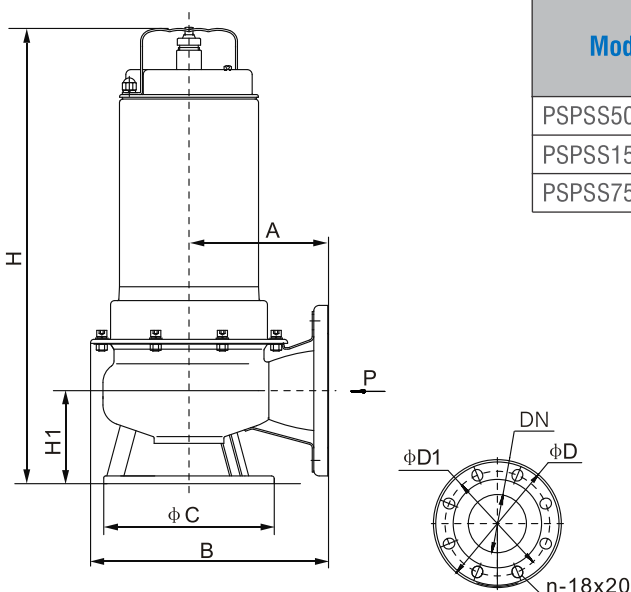
### Installation & Use

This model of pump is characterized with high heads, compact size, light weight and convenient use and vastly used in high-position water delivery, flush and places as construction sites. The float switch can automatically control on and off with the change of the water level. The protection in the motor can automatically cut off the power when it overheats or over current.

### Pump Selection Chart

| Model          | Power |     | Voltage<br>(50Hz) | Rated<br>Speed<br>(RPM) | Outlet<br>(Inch) | Guide<br>Rail | Rated          |               | Maximum        |               | Impeller<br>Passage<br>(mm) | Net<br>Weight<br>(Kg) |
|----------------|-------|-----|-------------------|-------------------------|------------------|---------------|----------------|---------------|----------------|---------------|-----------------------------|-----------------------|
|                | KW    | HP  |                   |                         |                  |               | Flow<br>(m3/h) | Head<br>(Mtr) | Flow<br>(m3/h) | Head<br>(Mtr) |                             |                       |
| PSPSS50-7-3.0  | 3.0   | 4.0 | 380-420v          | 2900                    | 3"               | 80-80         | 50             | 7             | 70             | 17            | 30                          | 24.3                  |
| PSPSS15-32-4.0 | 4.0   | 5.5 | 380-420v          | 2900                    | 2"               | 50-50         | 15             | 32            | 35             | 44            | 6                           | 37.3                  |
| PSPSS75-7-4.0  | 4.0   | 5.5 | 380-420v          | 2900                    | 4"               | 100-100       | 75             | 7             | 115            | 19            | 52                          | 37.6                  |

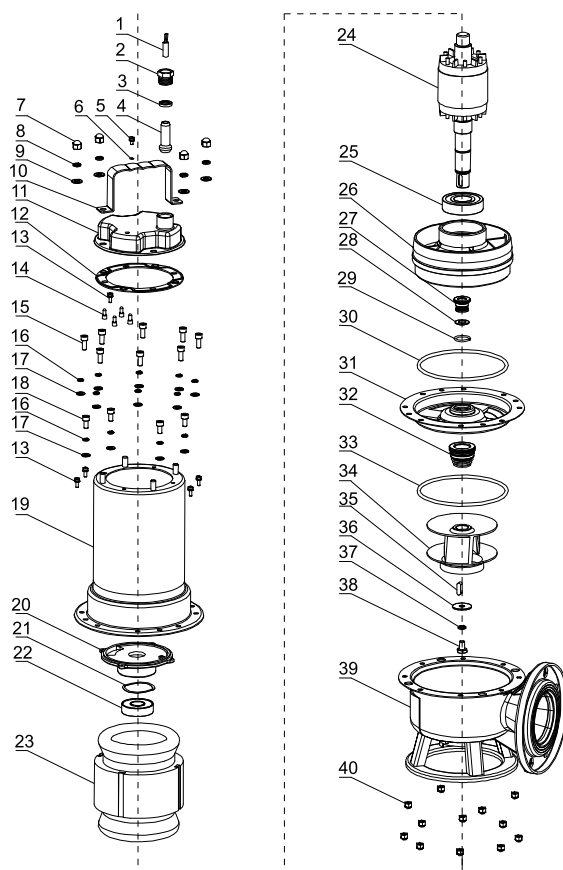
### G.A Drawing



### Dimension (mm)

| Model          | Pump |     |     |     |     | Flange |     |     |   |
|----------------|------|-----|-----|-----|-----|--------|-----|-----|---|
|                | A    | B   | C   | H   | H1  | D      | D1  | DN  | n |
| PSPSS50-7-3.0  | 145  | 240 | 190 | 546 | 110 | 200    | 160 | 80  | 8 |
| PSPSS15-32-4.0 | 160  | 287 | 220 | 528 | 100 | 165    | 125 | 50  | 4 |
| PSPSS75-7-4.0  | 180  | 307 | 220 | 558 | 120 | 220    | 180 | 100 | 8 |

### Exploded View



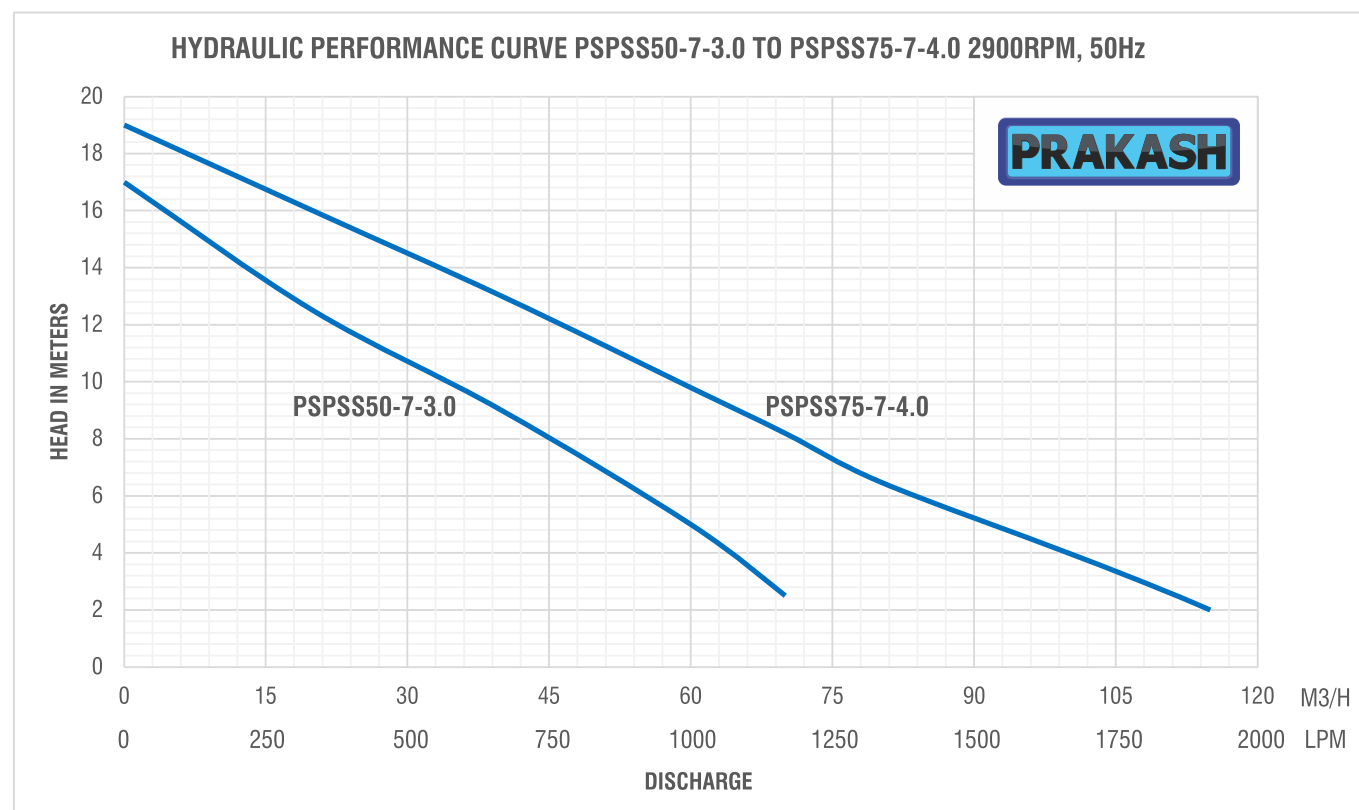
### Material of Construction (MOC)

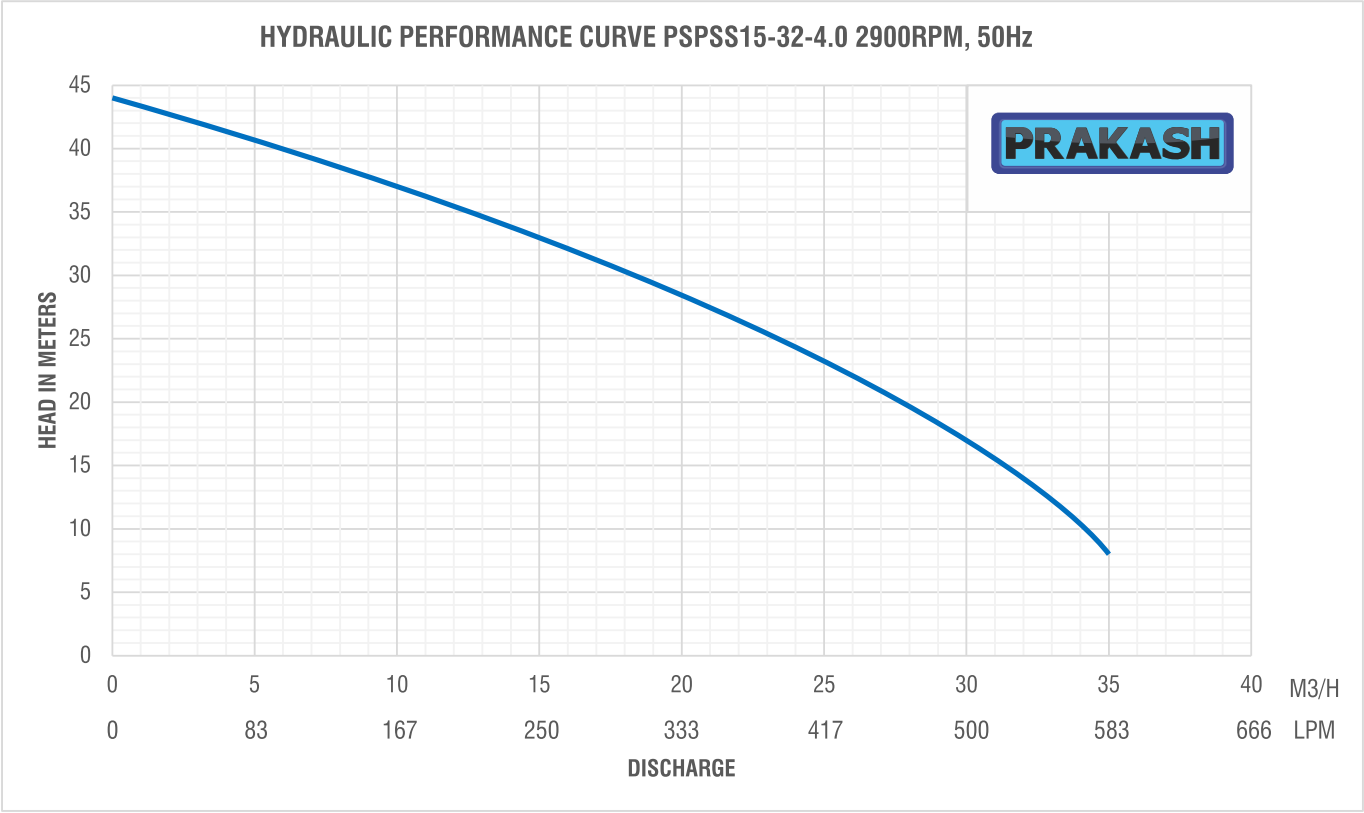
| Code | Parts Name                    | Material  | Code | Parts Name               | Material  |
|------|-------------------------------|-----------|------|--------------------------|-----------|
| 1    | Cable                         | PVC       | 21   | Wave ring                | MS        |
| 2    | Press nut                     | SS 304    | 22   | Bearing                  | 6203      |
| 3    | Pressure washer               | SS 304    | 23   | Stator assembling        |           |
| 4    | Cable head                    | PVC       | 24   | Rotor assembling         |           |
| 5    | Head screw & washer assembly  | SS 304    | 25   | Bearing                  | 6305      |
| 6    | O-ring                        | NBR       | 26   | Front cover              | Cast iron |
| 7    | Acorn nut                     | SS 304    | 27   | Mechanical seal          | Sic/SS    |
| 8    | Spring washer                 | SS 1045   | 28   | Mechanical seal flat pad | SS 304    |
| 9    | Washer                        | SS 304    | 29   | External circlips        | MS        |
| 10   | Handle                        | SS 304    | 30   | O-ring                   | NBR       |
| 11   | Upper cover                   | SS 304    | 31   | Pump cover               | SS 304    |
| 12   | Upper cover gasket            | Rubber    | 32   | Mechanical seal          | SS 304    |
| 13   | screw & washer assembly       | SS 304    | 33   | O-ring                   | NBR       |
| 14   | Terminal                      | SS 304    | 34   | Impeller                 | SS 304    |
| 15   | Hexagon socket head cap screw | SS 304    | 35   | Key                      | SS 304    |
| 16   | Spring washer                 | SS 1045   | 36   | Washer                   | SS 304    |
| 17   | Washer                        | SS 304    | 37   | Spring washer            | SS 1045   |
| 18   | Hexagon socket head cap screw | SS 304    | 38   | Hexagon bolt             | SS 1045   |
| 19   | Motor Base                    | SS 304    | 39   | Pump casing              | SS 304    |
| 20   | Rear flange cover             | Cast iron | 40   | Acorn nut                | SS 316    |

### Performance Chart 2900RPM, 50Hz

| Model          | Power |     | Q        | US GPM | 0  | 44  | 88   | 132  | 154 | 176 | 220 | 264  | 308  |
|----------------|-------|-----|----------|--------|----|-----|------|------|-----|-----|-----|------|------|
|                | KW    | HP  |          | M3/H   | 0  | 10  | 20   | 30   | 35  | 40  | 50  | 60   | 70   |
|                |       |     |          | LPM    | 0  | 167 | 333  | 500  | 583 | 667 | 834 | 1000 | 1167 |
| PSPSS50-7-3.0  | 3.0   | 4.0 | Head (m) |        | 17 | 15  | 12.5 | 10.5 | 9.8 | 9   | 7   | 5    | 2    |
| PSPSS15-32-4.0 | 4.0   | 5.5 | Head (m) |        | 44 | 37  | 28   | 18   | 8   |     |     |      |      |

| Model         | Power |     | Q        | US GPM | 0  | 88  | 176 | 264  | 352  | 440  | 484  | 506  |
|---------------|-------|-----|----------|--------|----|-----|-----|------|------|------|------|------|
|               | KW    | HP  |          | M3/H   | 0  | 20  | 40  | 60   | 80   | 100  | 110  | 115  |
|               |       |     |          | LPM    | 0  | 333 | 667 | 1000 | 1334 | 1667 | 1833 | 1920 |
| PSPSS75-7-4.0 | 4.0   | 5.5 | Head (m) |        | 19 | 16  | 13  | 10   | 6.5  | 4    | 2.5  | 2    |





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