PARAGON PUMP COMPANY, LLC
18102 Courtney Breeze Drive
Tampa, Florida 33647, USA
Tel: (813) 994-3356
Fax: (813) 994-1237

SPT/SPU SERIES PUMP

Your Local Distributor:
**SERIES SPT**

### Construction Materials

<table>
<thead>
<tr>
<th>Component</th>
<th>Standard</th>
<th>Type A</th>
<th>Type B</th>
<th>Type C</th>
<th>Type D</th>
<th>Type E</th>
<th>Type F</th>
<th>Type G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing</td>
<td>A 48CL30</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
<td></td>
</tr>
<tr>
<td>Impeller</td>
<td>A 60-40-19</td>
<td>A 216</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
</tr>
<tr>
<td>Wear Plate</td>
<td>SAE 1020</td>
<td>A 216</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
</tr>
<tr>
<td>Cover Plate</td>
<td>A 48CL30</td>
<td>A 216</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
</tr>
<tr>
<td>Bearing Housing</td>
<td>A 48CL30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seal Plate</td>
<td>A 48CL30</td>
<td>A 216</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
<td>CD4 MCU</td>
<td>SS 316</td>
<td>ADI</td>
</tr>
<tr>
<td>Flap Valve</td>
<td>Neoprene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sleeve Shaft</td>
<td>ANSI 4140Ht</td>
<td></td>
<td>ANSI 17-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flange</td>
<td>ANSI 4140Ht</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O’rings</td>
<td>Buna</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impeller Shaft</td>
<td>ANSI 4140Ht</td>
<td></td>
<td>ANSI 17-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Seal</td>
<td>Casing in SS 316, O’rings in Buna &amp; Viton, faces in titanium and tungsten carbide</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The mechanical seal for all models has a 316SS body, Viton O’rings and tungsten carbide faces. Other seals available upon request.

All cast iron parts are ASTM 48, class 30.
All carbon steel shafts are SAE 4140 Ht.
All parts labeled CD4 are hardened 18-8 stainless steel, CD4, DIN 1.4463
All parts labeled 316SS are CF8M
Epoxy and ceramic internal coatings are available. Please call for quote.

### Suction Speed Flow Curve

Note 1: The suggested suction should have the same nominal diameter as the pump, so that the solids will be totally swept up.
2: If the speed is higher than 3.5 m/s and if there is a need for higher "NPSH", please contact the factory.
DATA SHEET
Net Weight 92kg (203lbs)
Shipping Weights 114kg (252lbs)
Impeller Dia. 158.75mm (6.24")
R.P.M. FROM 1150rpm TO 2900rpm
Max. Solids 44.45mm (1.75")

SELF-PRIMING
1150 rpm 7.6m (24.7) - 1450 rpm 7.6m (25.1)
1750 rpm 7.6m (25.1) - 2050 rpm 7.6m (25.1)
2350 rpm 7.6m (25.1) - 2650 rpm 7.6m (25.1)
2850 rpm 7.6m (25.1) - 2900 rpm 7.6m (25.1)

Before using this table, check the NPSH.

EXTERNAL DIMENSIONS
MILLIMETERS (INCHES)

PERFORMANCE CURVE 2"x2"
SERIES SPU  
MODEL SPU-6

DATA SHEET
Net Weight 413 kg (910 lb)
Shipping Weight 437 kg (965 lb)
Impeller Dia. 317.5 mm (12.5/16")
R.P.M. from 850 rpm to 1950 rpm
Max. Solids 31.75 mm (1.1/4")

SELF-PRIMING
850 RPM 2.4 m (8") - 1150 RPM 3.0 m (10")
1450 RPM 4.2 m (10") - 1750 RPM 4.5 m (15")
1950 RPM 4.5 m (15")

Before using this table, check the NPSH.
**SERIES SPT**

**MODEL SPT-3**

**DATA SHEET**

- **Net Weight**: 183kg (404lbs)
- **Shipping Weights**: 205kg (452lbs)
- **Impeller Dia.**: 222.25mm (8.75"")
- **R.P.M.**: from 650pm to 2150rpm
- **Max. Solids**: 63.5mm (2.5"")

**SELF-PRIMING**

- 650 rpm: 1.5m (5ft) - 750 rpm: 1.8m (6ft)
- 850 rpm: 2.4m (8ft) - 950 rpm: 3.0m (10ft)
- 1050 rpm: 4.2m (13.8ft) - 1150 rpm: 4.9m (16.1ft)
- 1250 rpm: 5.5m (18ft) - 1350 rpm: 5.8m (19ft)
- 1450 rpm: 6.4m (21ft) - 1550 rpm: 6.4m (21ft)
- 1650 rpm: 6.7m (22ft) - 1750 rpm: 6.7m (22ft)
- 1850 rpm: 7.6m (25ft) - 1950 rpm: 7.6m (25ft)
- 2050 rpm: 7.6m (25ft) - 2150 rpm: 7.6m (25ft)

**EXTERNAL DIMENSIONS**

**MILLIMETERS (INCHES)**

**PERFORMANCE CURVE 3"x3"**

**BEFORE USING THIS TABLE, CHECK THE NPSH.**
**SERIES SPU**

**MODEL SPU-4**

**DATA SHEET**

Net Weight 272kg (600lbs)
Shipping Weights 297kg (655lbs)
Impeller Dia. 279,4mm (11")
R.P.M. From 850rpm to 2150rpm
Max. Solids 28.57mm (1.1/8")

**SELF-PRIMING**

850 RPM 2,41m (8ft) - 1150 RPM 3,01m (10ft)
1450 RPM 3,61m (12ft) - 1750 RPM 3,91m (13ft)
1950 RPM 4,51m (15ft) - 2150 RPM 5,21m (17ft)

Before using this table, check the NPSH.

**PERFORMANCE CURVE 4"x4"**

**EXTERNAL DIMENSIONS**

**MILLIMETERS (INCHES)**

Before using this table, check the NPSH.

**SERIES SPT**

**MODEL SPT-3**
SERIES SPT
MODEL SPT-4

DATA SHEET

Net Weight 259.5kg (600lbs)
Shipping Weights 280kg (655lbs)
Impeller Dia. 247.65mm (9.3/4"
R.P.M. From 650rpm to 1950rpm
Max. Solids 76.2mm (3"

Self-priming
650 rpm 1.5m (5ft) - 750 rpm 2.4m (8ft)
850 rpm 4.9m (16ft) - 950 rpm 5.8m (19ft)
1050 rpm 6.7m (22ft) - 1150 rpm 7.3m (24ft)
1250 rpm 7.6m (25ft) - 1350 rpm 7.5m (25ft)
1450 rpm 7.6m (25ft) - 1550 rpm 7.6m (25ft)
1650 rpm 7.6m (25ft) - 1750 rpm 7.6m (25ft)
1850 rpm 7.6m (25ft) - 1950 rpm 7.6m (25ft)

Before using this table, check the NPSH.

EXTERNAL DIMENSIONS
MILLIMETERS (INCHES)

PERFORMANCE CURVE 4"x4"
**SERIES SPU**

**MODEL SPU-3**

**DATA SHEET**

Net Weight: 214 kg (472 lbs)

Skipping Weights: 225 kg (497 lbs)

Impeller Dia: 279.4 mm (11"")

R.P.M. from 850 rpm to 2150 rpm

Max. Solids: 20.63 mm (1/3")

**SELF-PRIMING**

850 rpm: 2.3 m (7') - 1150 rpm: 2.9 m (9.5')

1450 rpm: 4.5 m (15') - 1750 rpm: 7.6 m (25.5')

1950 rpm: 7.6 m (25.5') - 2150 rpm: 7.6 m (25.5')

Before using this table, check the NPSH.

**PERFORMANCE CURVE 3"x3"**

**EXTERNAL DIMENSIONS**

**MILLIMETERS (INCHES)**

**SERIES SPT**

**MODEL SPT-4**
SERIES SPT  
MODEL SPT-6

DATA SHEET
Net Weight 364kg (802lbs)
Shipping Weight 391kg (862lbs)
Impeller Dia. 314.32mm (12.3/8"
R.P.M. FROM 650rpm TO 1550rpm
Max. Solids 76.2mm (3"

SELF-PRIMING
650 rpm 2.4m (8"
850 rpm 3.6m (12"
950 rpm 4.2m (14"
1050 rpm 5.5m (18"
1150 rpm 6.4m (21"
1250 rpm 6.4m (21"
1350 rpm 5.7m (23"
1450 rpm 7.0m (23"

BEFORE USING THIS TABLE, CHECK THE NPSH.

EXTERNAL DIMENSIONS
MILLIMETERS (INCHES)

PERFORMANCE CURVE 6”x6”
SERIES SPT  MODEL SPT-10

DATA SHEET

Net Weight 635kg (1400lbs)
Shipping Weight 663kg (1461lbs)
Impeller Dia.: 374.65mm (14.74")
R.P.M. from 650rpm to 1450rpm
Max. Solids 76.2mm (3")

Self-Priming
650 rpm 2.1m (7ft) - 750 rpm 3.4m (11ft)
850 rpm 4.3m (14ft) - 950 rpm 5.2m (17ft)
1050 rpm 5.5m (18ft) - 1150 rpm 5.5m (18ft)
1250 rpm 5.8m (19ft) - 1350 rpm 6.7m (22ft)
1450 rpm 6.7m (22ft)

Before using this table, check the NPSH.
SERIES SPT  MODEL SPT-8

DATA SHEET

Net Weight 581 kg (1295 lbs)
Shipping Weights 634 kg (1399 lbs)
Impeller Dia. 374.65 mm (14.7/4")
R.P.M. from 650 rpm to 1350 rpm
Max. Solids 76.2 mm (3")

Self-priming
650 rpm 2.7 m (9 ft) - 750 rpm 3.7 m (12 ft)
850 rpm 4.6 m (15 ft) - 950 rpm 5.2 m (17 ft)
1050 rpm 6.1 m (20 ft) - 1150 rpm 6.4 m (21 ft)
1250 rpm 6.7 m (22 ft) - 1350 rpm 7.0 m (23 ft)

Before using this table, check the NPSH.

EXTERNAL DIMENSIONS

MILLIMETERS (INCHES)

PERFORMANCE CURVE 8"x8"

TOTAL HEAD

(flow)

(mass)

(FT)

(HP)

FLOW

(L/s) x 10

(m³/h)

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

NPSH @ 1350 RPM

OPERATING RANGE

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

60 65 70 75 80 85 90 95 100

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

203.20 (8") SUCTION

203.20 (8") DISCHARGE

TO REMOVE THE COVER

MAINTAIN DISTANCE OF 24.0 (610 mm)

MAINTAIN DISTANCE OF 4.8 (120 mm)

TO REMOVE THE ROTATING ASSEMBLY