



POLAR JET®

Tank Cleaning Machine



TANK CLEANING EQUIPMENT

POLAR JET® PJ 303

The Polar Jet® PJ 303 is a fully programmable, multi-stage, single nozzle Tank Cleaning machine equipped with pitch and speed control.

Nozzle movement is fully controlled by the integrated turbine driven control unit, which controls both the vertical pitch and rotation speed.

Nozzle movement is, in principle, a controlled rotation in the horizontal plane, combined with a slow, controlled vertical movement. This means that the nozzle performs helical patterns.

The PJ 303 comes with operator-friendly controls to set both vertical Pitch and rotation Speed. There are two Speed Settings and three Pitch Settings of approximately 1.5, 3 and 7 degrees providing six basic programs.

Angle adjustment allows pre-setting of the Pitch at the start of either the upward or downward cycle for optimal cleaning of specific areas such as bottom only or side only cleaning requirements.

Polarmarine provide in-house Shadow Diagrams using 3-Dimensional CAD for model Selection, Quantity, Positioning and Main Pipe Lengths to optimize cleaning coverage per unit. The Shadow Diagrams are made according to DNV ETC, Effective Tank Cleaning.

Standard material is according to SUS 316L. As optional with higher grade, Stainless Steel with Molybdenum equal or higher than 2.5% is also offered.





DATA SHEET PJ 303

SMALLEST DECK OPENING 180 mm

INLET FLANGE
CONNECTION TO FIT
JIS STANDARD

PCD 120mm.
8 Holes Ø19mm.

CONNECTION TO FIT
DIN STANDARD

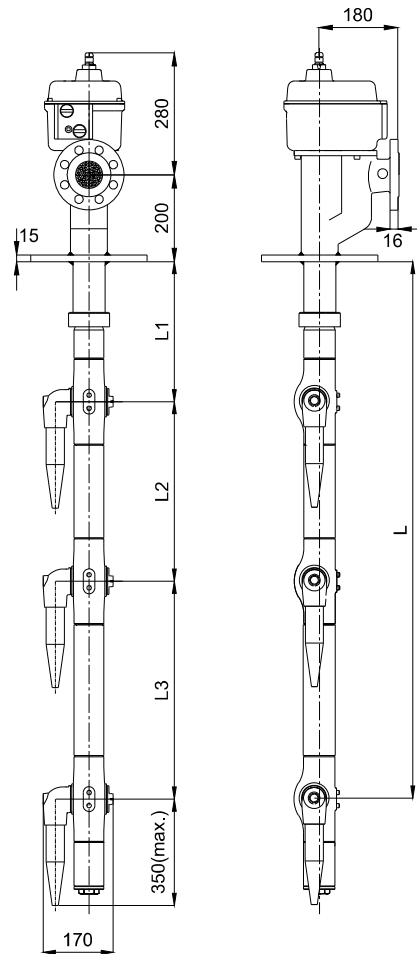
PCD 125mm.
4 Holes Ø19mm.

CONNECTION TO FIT
ANSI STANDARD

PCD 4 3/4 in.
4 Holes Ø3/4 in.

| APPROX. WEIGHTS | |
|-----------------|-------------|
| L (m) | Weight (Kg) |
| 1.0 | 49 |
| 2.0 | 56 |
| 3.0 | 63 |
| 4.0 | 70 |
| 5.0 | 77 |

Note: Add 7kls for every meter length



DECK FLANGE
CONNECTION TO FIT
JIS STANDARD

O.D. 270mm.
PCD 225mm.
8 Holes Ø19mm.

CONNECTION TO FIT
DIN STANDARD

O.D. 265mm.
PCD 225mm.
8 Holes Ø19mm.

CONNECTION TO FIT
ANSI STANDARD

O.D. 10 in.
PCD 8 1/2 in.
8 Holes Ø7/8 in.

| SHIPYARD SUPPLY |
|-------------------|
| DECK FLANGE CONN. |
| GASKETS |
| STUDS |
| NUTS |
| WASHER |

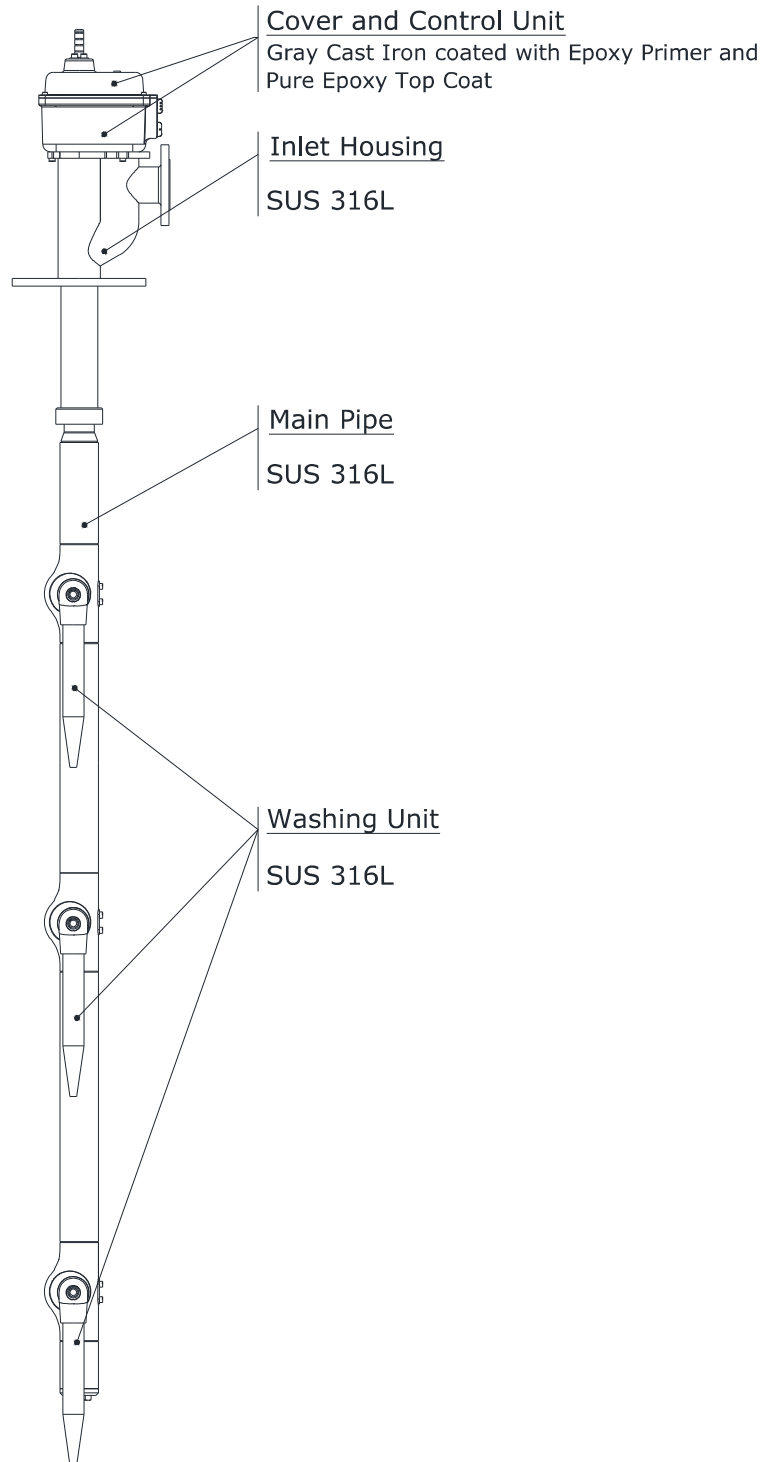
PERFORMANCE DATA FOR POLAR JET® PJ 303

PRESSURE, NOZZLE DIAMETER, THROUGHPUT AND JET LENGTH

| Pressure | Nozzle Diameter Ø8 mm | | Nozzle Diameter Ø9 mm | | Nozzle Diameter Ø10 mm | | Nozzle Diameter Ø12 mm | | Nozzle Diameter Ø14 mm | | Nozzle Diameter Ø16 mm | |
|----------|-----------------------|-------|-----------------------|-------|------------------------|-------|------------------------|-------|------------------------|-------|------------------------|-------|
| | m ³ /hr | meter | m ³ /hr | meter | m ³ /hr | meter | m ³ /hr | meter | m ³ /hr | meter | m ³ /hr | meter |
| 12 | 6.5 | 19.5 | 10.0 | 20.5 | 13.0 | 21.5 | 19.0 | 25.0 | 27.0 | 26.5 | 35.0 | 28.5 |
| 11 | 6.0 | 18.5 | 9.0 | 20.0 | 12.0 | 20.5 | 18.0 | 24.5 | 26.0 | 26.0 | 33.5 | 27.5 |
| 10 | 5.5 | 18.0 | 8.0 | 19.0 | 11.0 | 20.0 | 17.0 | 23.5 | 24.0 | 25.5 | 32.0 | 27.0 |
| 9 | 5.0 | 17.0 | 7.5 | 18.0 | 10.5 | 19.0 | 16.0 | 22.5 | 23.0 | 24.5 | 30.0 | 26.0 |
| 8 | 4.5 | 16.0 | 7.0 | 17.0 | 10.0 | 18.0 | 15.0 | 21.5 | 22.0 | 23.5 | 28.5 | 25.0 |
| 7 | 4.0 | 15.0 | 6.0 | 16.0 | 9.0 | 17.0 | 14.0 | 20.5 | 20.0 | 22.5 | 27.0 | 24.0 |
| 6 | 3.5 | 14.0 | 5.5 | 15.0 | 8.0 | 16.0 | 13.0 | 19.5 | 19.0 | 21.5 | 25.0 | 23.0 |



PJ 303 – Material Specification



*Paint specification is Polarmarine Standard. Modification of paint specification is subject for additional charge.
**Also available with SUS316L Control Unit and Cover upon request and subject to additional charge.

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