

# POLARJET® PJ 15



The Polar Jet® PJ 15 is a fully programmable, single nozzle Tank Cleaning machine equipped with pitch and speed control.



A twin nozzle version of the PJ 15 is also available, (PJ 15CPT) which has dual nozzles mounted symmetrically opposed instead of one.



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 15 comes with two controls for vertical Pitch and rotation Speed. There are two Speed Settings and three Pitch Settings of approximately 2, 4 and 9 degrees providing six basic cleaning 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.



The PJ 15 can also be equipped with a magnetic transmission which prevents the risk of exposing the tank to the outside environment. Thus, allowing the Control Unit to be removed without accidental leakage since the Turbine Shaft does not directly go through the Inlet Housing.

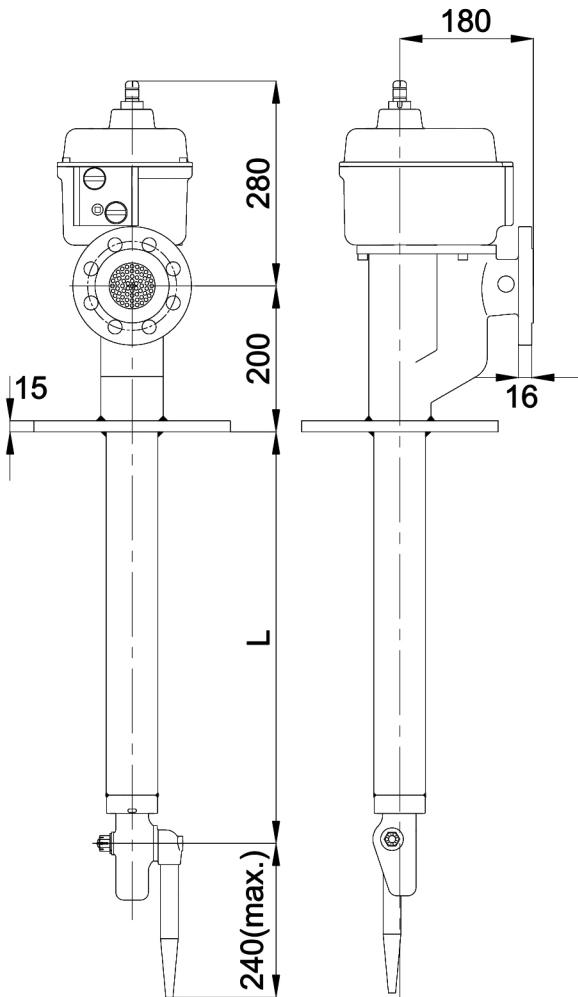


The PJ 15 can also be fitted for Industrial purposes, also known as PJ 15i. Thus, Polarmarine has developed new design main pipe to fit for the smallest opening, which is about 76.2mm.



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.

## DATA SHEET POLAR JET® PJ 15



### SMALLEST DECK OPENING 130mm

#### INLET FLANGE

JIS STANDARD	
PCD	120mm
8 Holes	Ø 19mm
DIN STANDARD	
PCD	125mm
4 Holes	Ø 19mm
ANSI STANDARD	
PCD	4 3/4 in
4 Holes	Ø 3/4 in

#### DECK FLANGE

JIS STANDARD	
OD	320mm
PCD	280mm
DIN STANDARD	
OD	340mm
PCD	295mm
ANSI STANDARD	
OD	13 1/2 in
PCD	11 3/4 in
8 Holes	Ø 7/8 in

#### APPROX. WEIGHTS

L (m)	WEIGHT (kg)
1.0	42
2.0	49
3.0	56
4.0	63
5.0	70

#### SHIPYARD SUPPLY

DECK FLANGE CONN.  
GASKETS  
STUDS  
NUTS  
WASHERS

### PERFORMANCE DATA FOR POLAR JET PJ 15

PRESSURE, NOZZLE DIAMETER, THROUGHPUT AND JET LENGTH

PRESSURE	NOZZLE: Ø 8mm	NOZZLE: Ø 9mm	NOZZLE: Ø 10mm	NOZZLE: Ø 12mm	NOZZLE: Ø 13mm	NOZZLE: Ø 14mm	NOZZLE: Ø 16mm
BAR	m³/h	METER	m³/h	METER	m³/h	METER	m³/h
12	6.5	19.5	10.0	20.5	13.0	21.5	18.0
11	6.0	18.5	9.0	20.0	12.0	20.5	17.0
10	5.5	18.0	8.0	19.0	11.0	20.0	16.0
9	5.0	17.0	7.5	18.0	10.5	19.0	15.0
8	4.5	16.0	7.0	17.0	10.0	18.0	14.0
7	4.0	15.0	6.0	16.0	9.0	17.0	13.0
6	3.5	14.0	5.5	15.0	8.0	16.0	12.0

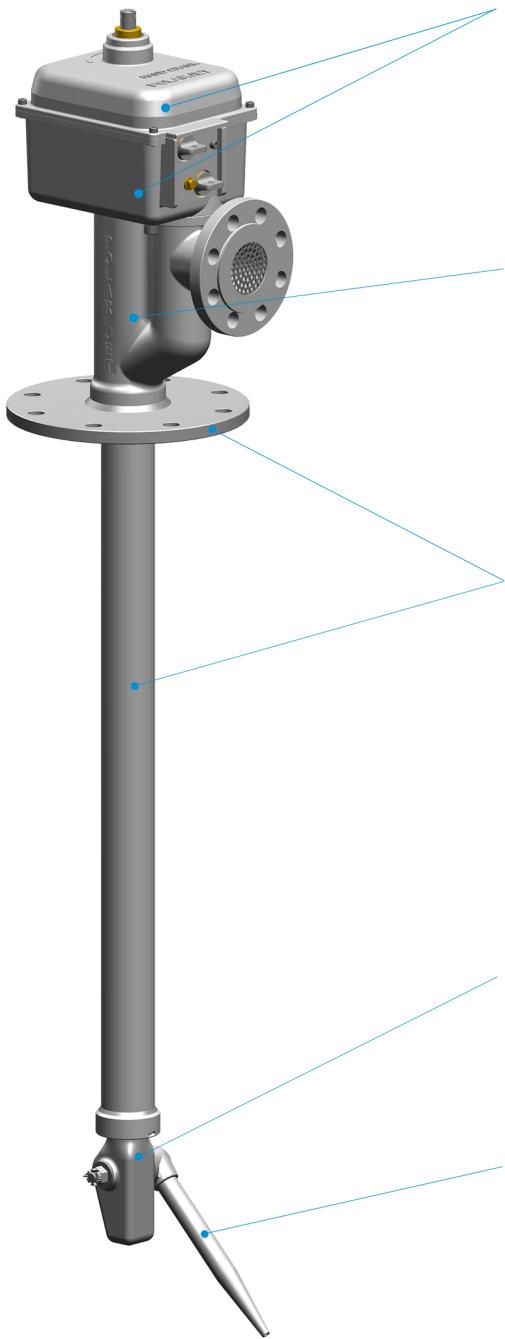
\* At this high capacity for Polar Jet PJ 15 machine has, we suggest considering using PJ 30. Refer to Data Sheet of PJ 30.

Note: Polarmarine can provide intermediate nozzle sizes based on customer's machine performance requirement. On the other hand, intermediate nozzle sizes could refer to performance data of the larger nozzle size (For instance, Ø 15.2 mm needs to apply performance data of Ø 16 mm).

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## MATERIAL SPECIFICATIONS POLAR JET® PJ 15



**COVER AND CONTROL UNIT**  
Gray Cast Iron coated with Epoxy Paint

**INLET HOUSING**  
Stainless Steel 316L

**DECK FLANGE AND MAIN PIPE**  
Stainless Steel 316L

**LOWER HOUSING**  
Stainless Steel 316L

**NOZZLE AND NOZZLE SUPPORT**  
Stainless Steel 316L

\*Paint specification is Polarmarine Standard. Modification of paint specification is subject for additional charge.

\*\*Also available with Stainless Steel 316 Control Unit and Cover upon request and subject to additional charge.

\*\*\*PJ 15 equipped with magnetic coupling also available upon request and subject to additional charge.