

POLARJET® PJ 123



The Polar Jet® PJ 123 is a deck mounted, fully programmable, multi-stage, single nozzle Tank Cleaning Machine. This model can be supplied with 2, 3, 4, or more nozzles according to the specific cleaning requirements of the tank configuration.



Movement of the nozzles can be set to work between any angles from 0 to 180 degrees. For example, the PJ 123 can be set to work only between 0 to 45 degrees with reverse direction for concentrated bottom cleaning – or any other suitable angles.



Nozzle movement is controlled by the integrated turbine driven control unit, providing a controlled rotation in the horizontal plane, combined with a slow, controlled vertical movement. This means that the nozzle performs helical patterns.

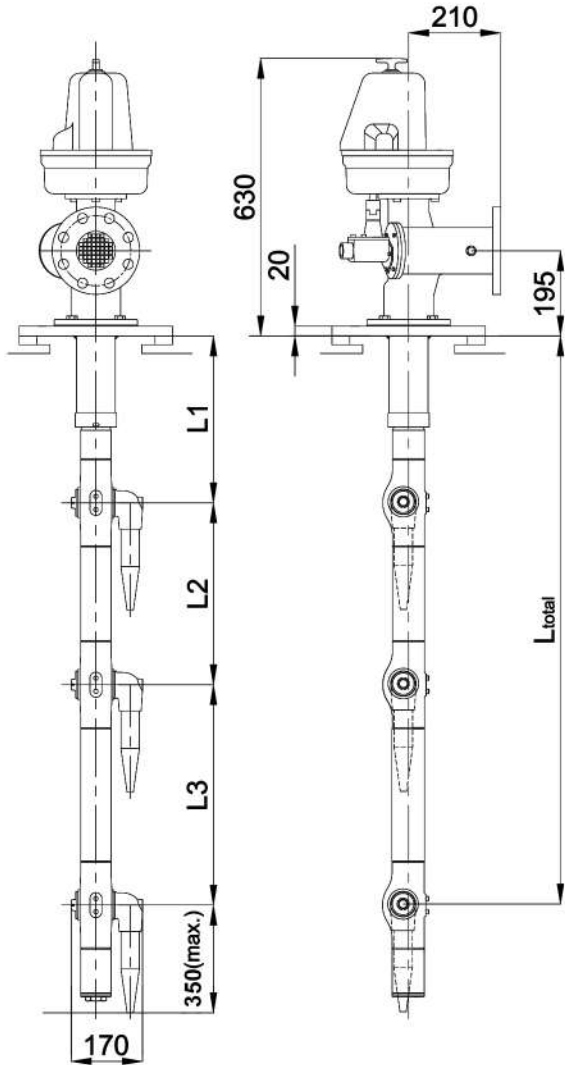


The Turbine driven nozzle pitch for the PJ 123 is 3 degrees. Adjustable guide vanes located in front of the turbine control speed, which should be between 1 and 2.5 RPM.



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 123



SMALLEST DECK OPENING 190mm

INLET FLANGE

JIS STANDARD

PCD	160mm
8 Holes	Ø 23mm

DIN STANDARD

PCD	160mm
8 Holes	Ø 19mm

ANSI STANDARD

PCD	6 in
4 Holes	Ø 3/4 in

APPROX. WEIGHTS

L (m)	WEIGHT (kg)
1.0	90
2.0	97
3.0	114
4.0	121
5.0	128

Note: Add 7 kgs. for every meter length

DECK FLANGE

JIS STANDARD

OD	350mm
PCD	305mm
12 Holes	Ø 25mm

DIN STANDARD

OD	340mm
PCD	295mm
12 Holes	Ø 23mm

ANSI STANDARD

OD	13 1/2 in
PCD	11 3/4 in
8 Holes	Ø 7/8 in

SHIPYARD SUPPLY

DECK FLANGE CONN.
GASKETS
STUDS
NUTS
WASHERS

PERFORMANCE DATA FOR POLAR JET® PJ 123

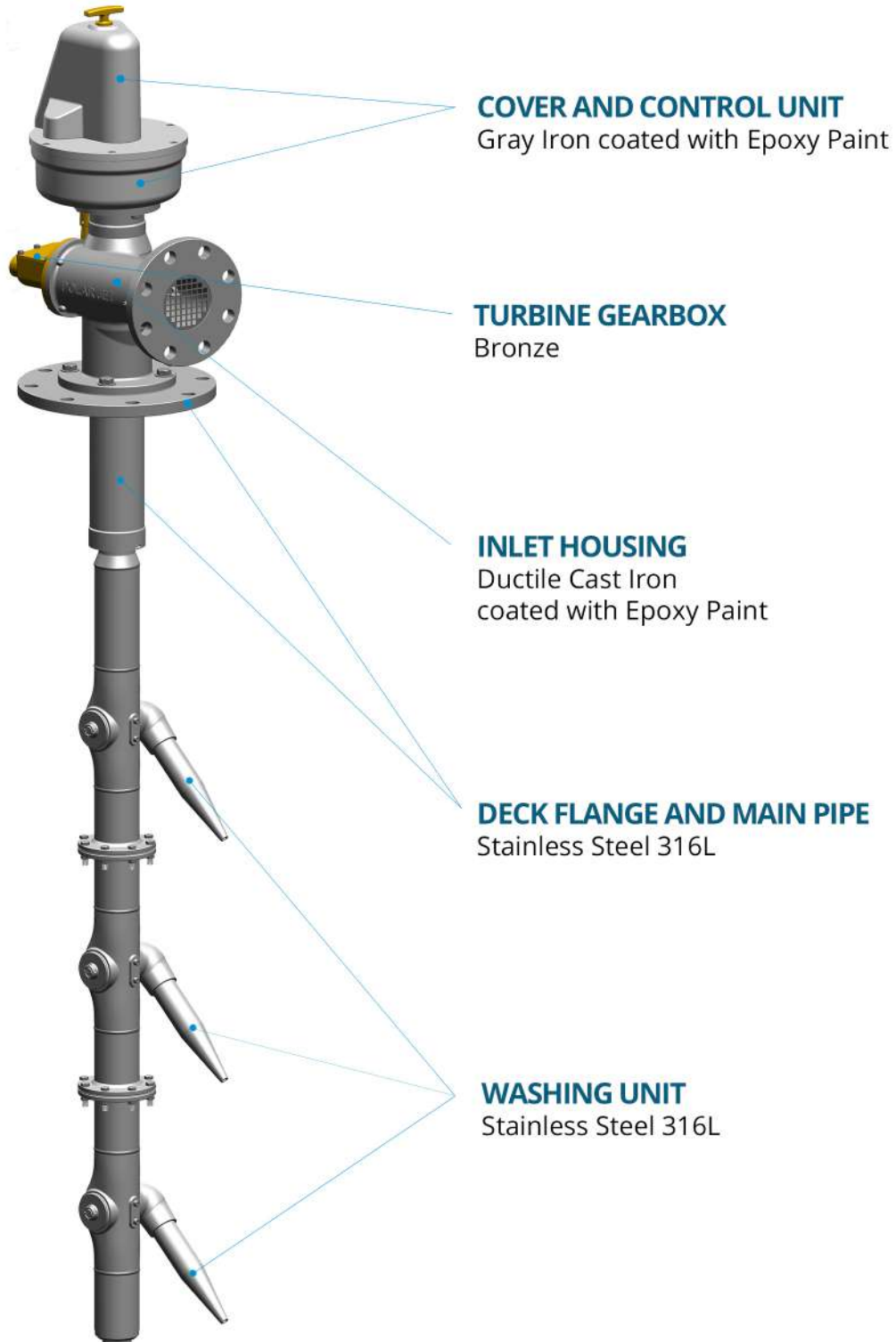
PRESSURE, NOZZLE DIAMETER, THROUGHPUT AND JET LENGTH

(Note: Data below is for each nozzle only)

PRESSURE	NOZZLE: Ø 12mm		NOZZLE: Ø 14mm		NOZZLE: Ø 16mm		NOZZLE: Ø 18mm		NOZZLE: Ø 20mm		NOZZLE: Ø 22mm	
	BAR	m³/h	METER	m³/h	METER	m³/h	METER	m³/h	METER	m³/h	METER	m³/h
12	19.0	25.0	27.0	26.5	35.0	28.5	44.0	29.5	54.0	31.5	60.0	33.0
11	18.0	24.5	26.0	26.0	33.5	27.5	42.0	29.0	51.0	31.0	57.0	32.5
10	17.0	23.5	24.0	25.5	32.0	27.0	39.0	28.5	48.0	30.5	54.0	32.0
9	16.0	22.5	23.0	24.5	30.0	26.0	37.0	27.5	45.0	29.5	51.0	31.0
8	15.0	21.5	22.0	23.5	28.5	25.0	34.5	26.5	42.5	28.5	48.0	30.0
7	14.0	20.5	20.0	22.5	27.0	24.0	32.0	25.5	40.0	27.5	45.0	29.0
6	13.0	19.5	19.0	21.5	25.0	23.0	30.0	24.5	37.0	26.5	42.0	28.0

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).

MATERIAL SPECIFICATIONS POLAR JET® PJ 123



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

**Also available with Stainless Steel 316 Inlet Housing upon request and subject to additional charge.