

# TANK CLEANING EQUIPMENT

## POLAR JET® PJ 120

### General Information

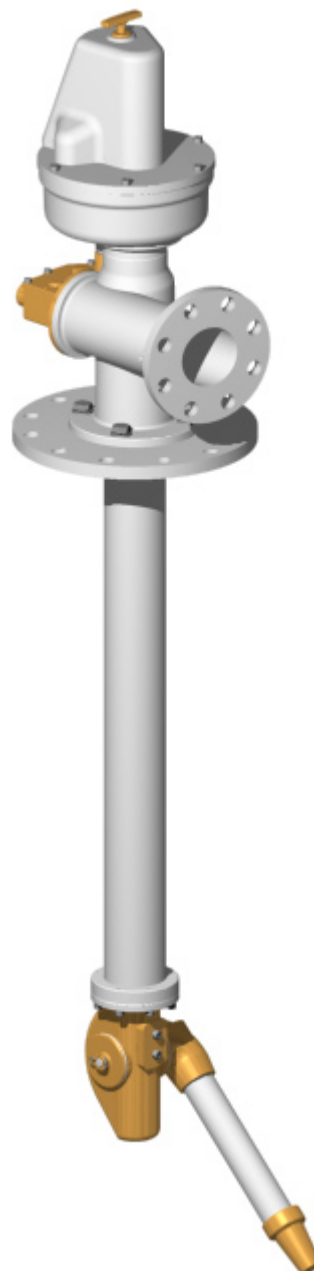
The Polar Jet PJ 120 is a deck mounted, fully programmable, single nozzle Tank Cleaning machine equipped with pitch, speed and angle limit controls. Movement of the nozzle can be set to work between any angles from 0 to 180 degrees.

For example, the PJ 120 can be set to work only between 0 to 45 degrees with reverse direction for concentrated bottom cleaning – or any other angle parameters of 30 degrees or more

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 wash patterns.

The Turbine driven automatic nozzle pitch for the PJ 120 is 3 degrees. This may be manually adjusted for heavy spot cleaning programs. 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.



# Technical data PJ 120

## Smallest deck opening 210 mm

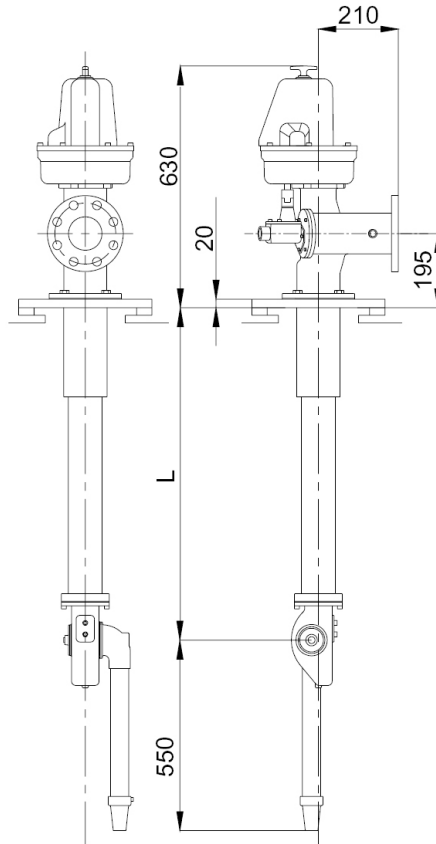
### Inlet flange

JIS Standard  
PCD 160 mm  
8 holes Ø 23 mm

DIN Standard  
PCD 160 mm  
8 holes Ø 19 mm

ANSI Standard  
PCD 6 inches  
4 holes Ø 3/4 inches

Approx. Weights	
L (m)	Weight (kg)
1.0	90.0
2.0	105.0
3.0	120.0
4.0	135.0
5.0	150.0



### Outlet flange

JIS Standard  
O.D 350 mm  
PCD 305 mm  
12 holes Ø 25 mm

DIN Standard  
O.D 340 mm  
PCD 295 mm  
12 holes Ø 23 mm

ANSI Standard  
O.D 13 1/2 inches  
PCD 11 3/4 inches  
8 holes Ø 7/8 inches

### Shipyards supply:

**Deck flange connection**  
**Gaskets**  
**Studs**  
**Nuts**  
**Washer**

## PERFORMANCE DATA FOR POLAR JET® PJ 120 PRESSURE, NOZZLE DIAMETER, THROUGHPUT AND JET LENGTH

Press	Nozzle Ø25mm		Nozzle Ø26mm		Nozzle Ø28mm		Nozzle Ø29mm	
	m <sup>3</sup> /h	meter	m <sup>3</sup> /h	meter	m <sup>3</sup> /h	meter	m <sup>3</sup> /h	meter
12	74	40	80	41	89	42.5	97	43.5
11	70	39.5	76	40.5	84.5	42	92	43
10	66	39	72	40	80	41.5	87.5	42.5
9	62.5	38	66	39	76	40.5	82.5	41.5
8	59	37	64	38	72	39.5	78	40.5
7	55	35.5	60	36.5	68	38	73	39
6	51	34	56	35	63	36.5	68.5	37.5

Press	Nozzle Ø30mm		Nozzle Ø31mm		Nozzle Ø32.5mm		Nozzle Ø35mm	
	m <sup>3</sup> /h	meter	m <sup>3</sup> /h	meter	m <sup>3</sup> /h	meter	m <sup>3</sup> /h	meter
12	105	44.5	114	45.5	126	46.5	149	48
11	100	44	108	45	119	46	141	47.5
10	94	43.5	102	44.5	112	45.5	132	47
9	89	42.5	96	43.5	105	44.5	123	46
8	84	41.5	90	42.5	98	43.5	114	45
7	78.5	40	84	41	91	42	104	43.5
6	73	38.5	78	39.5	84	40.5	95	42

Subject to alteration without notice.