

## VP MINI-MATIC

### TANK WASHING MACHINE

The VP Mini-Matic single-nozzle tank washing machine for fixed installations in Product and chemical tankers.

- Programmable.
- Stainless Steel 316L or Bronze construction.
- Minimal water consumption.
- Control Head - Reversible and variable speed air drive – Portable – Lightweight.
- Deck-mounted only
- Crude oil or water wash.
- Powerful efficient jet.
- Self-draining and media lubricated.
- Maintenance free below deck.
- 9 nozzle sizes – up to 46m<sup>3</sup>/hr.



### Performance Specification

Suitable for tank washing programmes on smaller vessels requiring fine control and full flexibility.

**Materials:** Stainless Steel 316L throughout or bronze cleaning head with mild steel coated downpipe fabrication.

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**Flanges:** Inlet flange 50mm/DIN/BS/ASA/JIS. Deck flange designed to suit standard 318mm (10 or 12 studs) opening or built to vessel requirements.

**Design:** Single 'maximum energy' nozzle with smooth jet flow for efficiency. Deck mounted with portable air drive unit. No turbine. Low water consumption.

**Operation:** Single nozzle helical wash with variable speed on horizontal rotation. Tailored to suit tank size. Nozzle operates from 180°-0° with nozzle increment on each rotation of 2.6°. Provides excellent wash coverage on all surfaces. Downward wash on different path to upward wash.

**Wash Programme:** Multi-stage arcs. Operator can set wash arc angles between vertical limits to provide Full – Top – Middle and Bottom wash programmes. Can wash one pass Top-Bottom 180°- 0° trip reverse at angle limit.

**Typical wash cycle:** 180°- 0° Full wash. Fast speed = 14 mins. All other wash arcs are proportional to these figures.

**Nozzles:** Sizes from 4mm to 20mm. Performance data below.

PERFORMANCE DATA																									
Ø NOZZLE SIZES	4 mm					6 mm					8 mm					10 mm					12 mm				
Pressure kg/cm <sup>2</sup>	4	6	8	10	12	4	6	8	10	12	4	6	8	10	12	4	6	8	10	12	4	6	8	10	12
Flow m <sup>2</sup> /hr	1.1	1.3	1.4	1.5	1.6	2.4	2.7	2.8	3.0	3.2	5.7	6.0	6.9	7.3	8.0	8.3	8.8	9.7	10.3	11.0	12.5	14	15	17	18
(1) Jet length - m.(C.O.W.)	1.7	2.5	3.5	4.5	5.5	5.8	6.2	6.5	7.5	8.5	9.5	10.2	10.8	11.5	12.1	10.5	11.2	11.8	12.5	13.1	11	12	15	17	19
(2) Jet length - m (water)	7	8	9	10	11	12	13	14	15	16	15	17	19	21	23	16.1	18.5	20.7	22.8	24.7	17	20	23	26	29
Ø NOZZLE SIZES	14 mm					16 mm					18 mm					20 mm									
Pressure kg/cm <sup>2</sup>	4	6	8	10	12	4	6	8	10	12	4	6	8	10	12	4	6	8	10	12					
Flow m <sup>2</sup> /hr	14.0	17.0	18.5	21.0	23.5	15.5	21.0	25.5	29.0	32.0	21.5	26.5	30	35	38	27	32	36	42	46					
(1) Jet length - m.(C.O.W.)	11.5	13.0	15.5	17.5	19.5	12	14	17	19	21	13	16	19	21	23	17	20	22	24	26					
(2) Jet length - m (water)	20	23	26	30	34	22	26	30	34	38	26	29	32	35	38	28	31	34	37	40					

(1) Jet – (C.O.W.) = Classification society approved length of wash jet with maximum solid effect.

(2) Jet – (Water) – Maximum length of wash jet – horizontal throw.

