

# M-Series™

## Tank Cleaning Solutions



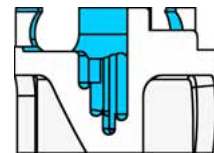
**SprayNozzle ENGINEERING**  
*Total Spraying Solutions*

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The washer with the unique patented **Flow Step Rotor**

- **Chemical Processing**
- **Dairy Processing**
- **Food & Beverage**
- **Pharmaceutical**

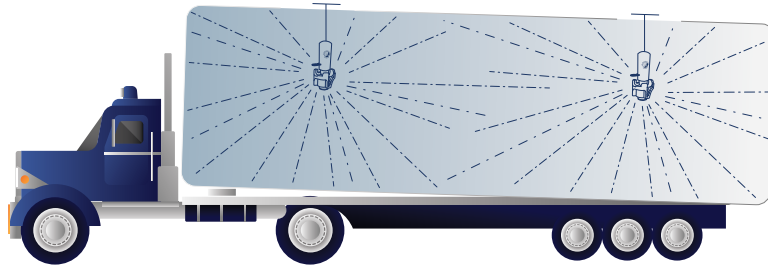


**Technology**

CIP spray nozzles designed to provide superior tank cleaning results at low operating pressures. **Your solution to cleaner tanks with less water.**

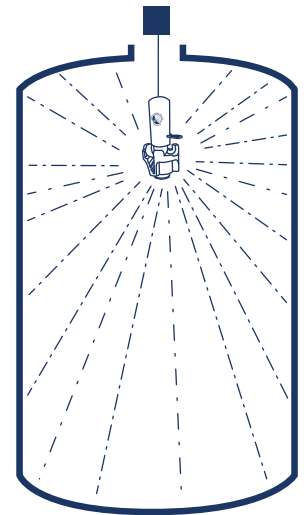
### UNIQUE PATENTED ROTOR DESIGN IS TRULY A STEP AHEAD

Powered by the cleaning fluid itself rotor steps are strategically arranged to channel the cleaning fluid into distinct concentrated streams of water to hit tank surfaces where they are needed most. These streams impart a greater hydraulic impact while reducing fine droplets. M-Series creates larger spray droplets from Flow Step Rotor™ design, providing greater washing impact and more efficient wetting.



### SELF-CLEANING ACTION WAS THE NEXT STEP TO IMPROVED RELIABILITY

The M-Series rotating tank washers have allowed for major improvements towards trouble free CIP operation by achieving with our distinct bearing system, allowing fluctuations in water pressure to purge any debris / obstructions. No lubrication is required other than the cleaning fluid itself as there are no ball bearings to jam, corrode, thus impeding rotation.



### IDENTIFY THE PROBLEM!

Basic spray ball devices found in processing & storage tanks are extremely inefficient and costly to operate. As they require large volumes of water, chemical to operate, and severely compromising performance leading to excessive CIP cycles.

### A TRUE 360° SPRAY

Special emphasis is placed upon backward cleaning at points of entry, along with concentrated forward wash-jet droplets to assist cleaning items such as centralised agitators, baffles, shadowed areas.

### CUSTOMISE YOUR M-SERIES WASHER

Slot combinations of 4, 6, 8 and 10 are available with the standard M-Series with 10 slot flow directors. If your needs are special, custom units using non-standard flow directors and rotors can help tailor your flow and performance to suit specific requirements.



**STANDARD  
10 SLOT**



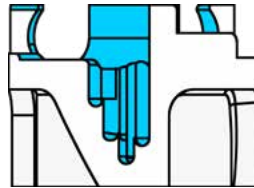
**CUSTOM  
8 SLOT**



**CUSTOM  
4 SLOT**

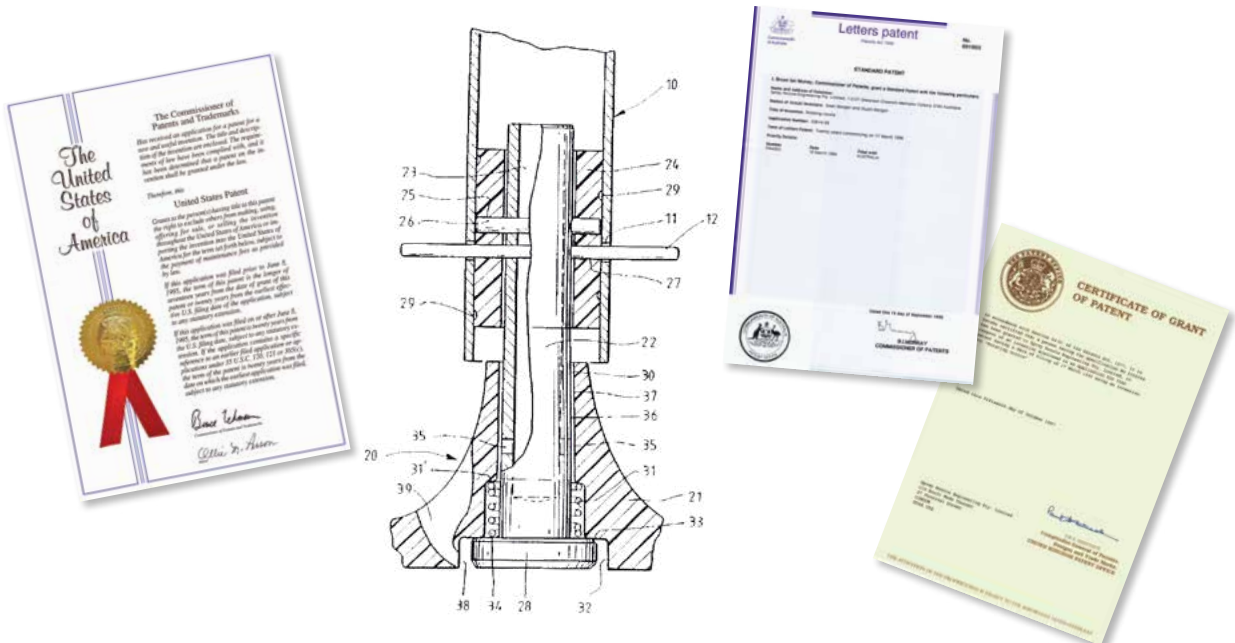


## A STEP ahead with patented FlowStepTechnology



### YOUR BIGGEST STEP FORWARD IS TO REPLACE SPRAY BALLS WITH ROTATING M-SERIES TANK WASHERS

With unique patented features including Flow Step Rotor™ technology helping ensure superior hydraulic impact, and a more thorough tank clean with shorter CIP cycle times, leading to major cost savings.



Patented performance designed in Australia



# M-Series Flow Step Technology

Technical Data & Performance Information - 10 Slot Models



| SNE-M-30 |     |           |        |                                                               |      |
|----------|-----|-----------|--------|---------------------------------------------------------------|------|
| PRESSURE |     | FLOW RATE |        | WETTING RADIUS                                                |      |
| BAR      | PSI | LPM       | US GPM | METRE                                                         | FEET |
| 1.4      | 20  | 87        | 23     | Maximum coverage not applicable for close radius applications |      |
| 2.1      | 30  | 106       | 28     |                                                               |      |
| 2.8      | 40  | 121       | 32     |                                                               |      |
| 3.4      | 50  | 136       | 36     |                                                               |      |
| 4.1      | 60  | 148       | 39     |                                                               |      |

Connection: ½" BSP Male.  
(NPT and other connections available.)  
Weight: 0.27 kg (9.5oz.)



| SNE-M-50-II |     |           |        |                |      |
|-------------|-----|-----------|--------|----------------|------|
| PRESSURE    |     | FLOW RATE |        | WETTING RADIUS |      |
| BAR         | PSI | LPM       | US GPM | METRE          | FEET |
| 1.4         | 20  | 76        | 20     | 1.8            | 6    |
| 2.1         | 30  | 95        | 25     | 2.1            | 7    |
| 2.8         | 40  | 110       | 29     | 2.1            | 7    |
| 3.4         | 50  | 125       | 33     | 1.8            | 6    |
| 4.1         | 60  | 132       | 35     | 1.5            | 5    |

Connection: Standard butt weld 1" O.D. Tube.  
(Special order connections available.)  
Weight: 0.19 kg (6.7oz.)



| SNE-M-75-II |     |           |        |                |      |
|-------------|-----|-----------|--------|----------------|------|
| PRESSURE    |     | FLOW RATE |        | WETTING RADIUS |      |
| BAR         | PSI | LPM       | US GPM | METRE          | FEET |
| 1.4         | 20  | 167       | 44     | 2.6            | 8    |
| 2.1         | 30  | 204       | 54     | 2.7            | 9    |
| 2.8         | 40  | 235       | 62     | 2.7            | 9    |
| 3.4         | 50  | 250       | 66     | 3.0            | 10   |
| 4.1         | 60  | 276       | 73     | 3.5            | 11   |

Connection: Standard butt weld 1 ½" O.D. Tube.  
(special order connections available)  
Weight: 0.44 kg (15.5 oz)



| SNE-M-100-II |     |           |        |                |      |
|--------------|-----|-----------|--------|----------------|------|
| PRESSURE     |     | FLOW RATE |        | WETTING RADIUS |      |
| BAR          | PSI | LPM       | US GPM | METRE          | FEET |
| 1.4          | 20  | 430       | 114    | 1.8            | 6    |
| 2.1          | 30  | 500       | 132    | 2.6            | 8    |
| 2.8          | 40  | 585       | 155    | 3.0            | 10   |
| 3.4          | 50  | 661       | 175    | 2.7            | 9    |
| 4.1          | 60  | 708       | 187    | 2.6            | 8    |

Connection: Standard butt weld 2" O.D. Tube.  
(Special order connections available.)  
Weight: 0.50 kg (17.64 oz.)

The M-Series consists of a standard shaft / body manufactured in a high-grade stainless steel (AISI 316), with a rotor and flow director available in a choice of (FDA approved) materials.

#### Materials & Temperature:

- Acetal CoPolymer 120°C (248°F) Max
- PVDF (Kynar) 120°C (248°F) Max
- PTFE (Teflon) 150°C (302°F) Max  
(Full PTFE units are also available)

**Operation:** Self operated by cleaning fluid

**Pressure:** Recommended 1.5 BarG min (22psi)

Full material certification and traceability available on request.



**NOW available with  
"square clip" optional  
retaining system**

Distributed by:

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These products are protected by the following patent numbers: Australian Patent 691903, United Kingdom patent 2302048, United States Patent 5823435, United States Patent 359340, Australian Design no. 104215, 104613, 121769, 124600. Other possible patents pending.  
Warranty: The manufacturer will replace, repair or refund the purchase price of The Product at their option, free of charges, except transportation, if defective in their manufacture. Claims must be notified to the manufacturer in writing within 90 days of sale or shipment either of which occurs first. The Product should be returned to the place of purchase. This warranty is exclusive remedy and the Manufacturer/Distributor shall not be liable for consequential damages, injury or commercial loss. The Manufacturer/Distributor makes no warranty of fitness for a particular purpose and makes no other warranty, express or implied arising from the course of dealing or usage in trade. Specification subject to change without notice. Chemical, Temperature and pressure compatibility is the responsibility of purchaser, compatibility charts available at request. #Radius = Effective Contact Distance  
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