

Mononeel Engineering

Private Limited

Product Catalog

# **Introduction**

Founded in 2013, Mononeel Engineering Private Limited is a technology driven company managed by experienced professionals. We are rooted in expertise of manufacture and application of spray nozzles and other accessories. With our expertise in manufacture and extensive domain knowledge, we cater to various industries including Automobiles, Steel, Cement, Pharmaceutical, Chemical and Paper.

The aim of our company is customer satisfaction. We ensure products with precision and quality within the stipulated time. We provide a good technical support for our products along with the requisite after sales service. All this is ensured at an affordable price.

Our goal is to be an efficient manufacturing & consulting organization, providing innovative business solutions to our clients. We believe the right way to help ourselves is by helping the customers. And we do our best to achieve that.

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# **Camlock Filter**

MNCC Camlock fitting are ideal solution for fitting spray pipes and manifolds in pre-treatment lines in Paint application for automotive Industries. These Couplings are available with BSP (F) end connections



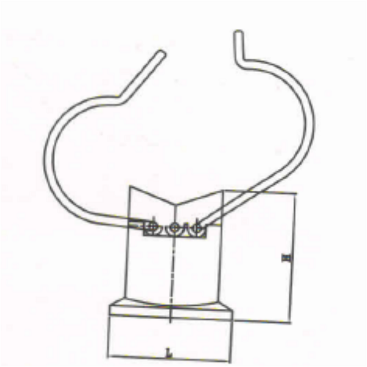
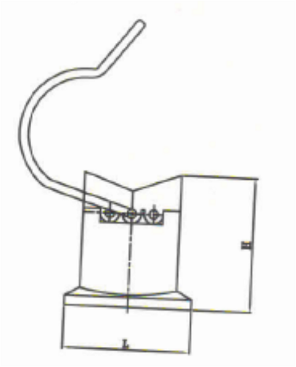
Material of Construction

* GRPP: Glass Fiber reinforce Polypropylene
* SS: 304 Stainless Steel

|  |  |  |  |
| --- | --- | --- | --- |
| **Product Code** | **Size** | **Length** | **Width** |
| MNCC 0025 | 1” | 100 | 75 |
| MNCC 0032 | 1 ¼” | 100 | 75 |
| MNCC 0040 | 1 ½” | 115 | 90 |
| MNCC 0050 | 2” | 115 | 90 |

# **Pipe Support**

MNPS Pipe Support offer an easy and convenient solution for holding the riser pipes in the tunnel of the pre-treatment plants, while making the maintenance operation faster. The spring holders can accommodate both steel as well as plastics pipes, two springs are provided for holding the pipe.

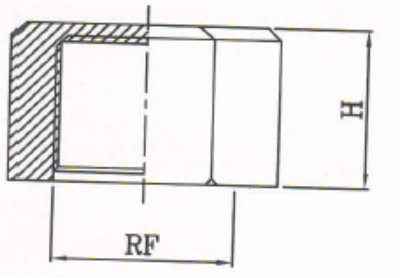
Material of Construction

* Body : GRPP - Glass Fiber Reinforced Polypropylene
* Spring : Stainless Steel (Heat treated)
* Nut with Bolt : SS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Product Code** | **Size** | **Spring Diameter MM** | **Height MM** | **Nut with Bolt** |
| MNPS 0025 | 1” | 25 | 50 | M 10/ 50 |
| MNPS 0032 | 1 ¼” | 32 | 50 | M 10/ 50 |
| MNPS 0040 | 1 ½” | 40 | 50 | M 10/ 50 |
| MNPS 0050 | 2” | 50 | 50 | M 10/ 50 |

# **End Cap**

MNEC End Cap suited for closing the riser pipes and manifolds in the surface treatment plants. These are molded design in reinforced Polypropylene material.



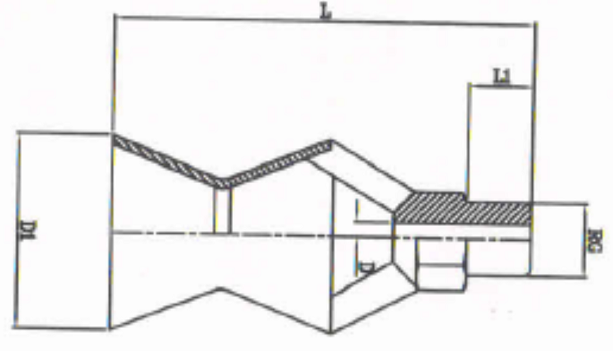
Material of Construction

* Body : GRPP - Glass Fiber Reinforced Polypropylene

|  |  |  |
| --- | --- | --- |
| **Product Code** | **Size** | **Height MM** |
| MNEC 0025 | 1” | 30 |
| MNEC 0032 | 1 ¼” | 30 |
| MNEC 0040 | 1 ½” | 30 |

# **Mixing Educators**

MNME Mixing Educator is a device which mixes two liquids of different flow rates giving a solution of desired flow rate. Educators are made using a venturi design. It enables small pumps to circulate large volumes of tank solution. When pumping is used for solution agitation, the use of an educator will circulate four to five gallons of solution in the tank for every one gallon you pump



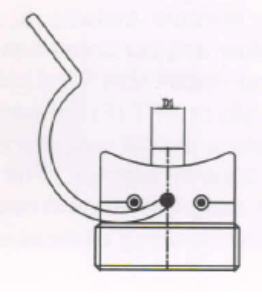
Material of Construction

* GRPP - Glass Fiber Reinforced Polypropylene
* SS – 304 / 316 Stainless Steel

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Product Code** | **End Connection** | **D** | **D1** | **L** | **L1** | **WS** |  | | | | |
| 1.00 | 2.00 | 3.00 | 4.00 | 5.00 |
| MNME 2016 | 3/8” | 4.4 | 45 | 98 | 15 | 22 | 12 | 16 | 20 | 23 | 26 |
| MNME 2024 | 3/8” | 5.4 | 45 | 98 | 15 | 22 | 17 | 24 | 30 | 35 | 39 |
| MNME 2033 | 3/8” | 6.4 | 45 | 98 | 15 | 22 | 23 | 33 | 40 | 46 | 52 |
| MNME 2041 | 3/8” | 7.1 | 45 | 98 | 15 | 22 | 29 | 41 | 50 | 58 | 65 |
| MNME 2049 | 3/4” | 7.8 | 60 | 132 | 20 | 30 | 35 | 49 | 60 | 69 | 77 |
| MNME 2057 | 3/4” | 8.4 | 60 | 132 | 20 | 30 | 40 | 57 | 70 | 81 | 90 |
| MNME 2065 | 3/4” | 8.8 | 60 | 132 | 20 | 30 | 46 | 65 | 79 | 91 | 102 |
| MNME 2088 | 3/4” | 9.8 | 60 | 132 | 20 | 30 | 62 | 88 | 108 | 125 | 140 |
| MNME 2097 | 3/4” | 11 | 60 | 132 | 20 | 30 | 68 | 97 | 119 | 137 | 153 |
| MNME 2113 | 3/4” | 11.9 | 60 | 132 | 20 | 30 | 80 | 113 | 138 | 159 | 178 |

# **Swivel Pipe Clamps – Spring Type**

MNSC Pipe Clamps are easy and efficient method for fitting the nozzles in paint shop applications. These clamps use the retaining caps, ball-joint and O-ring. The profiles spring holder allows quick and easy fitment of the clamp on to the pipe, without using any tools.



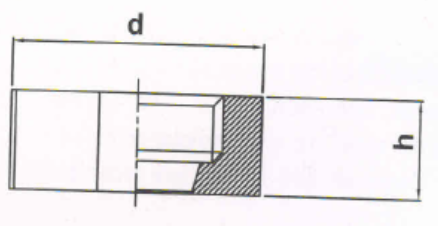
Material of Construction

* Body : GRPP - Glass Fiber Reinforced Polypropylene
* Spring : Stainless Steel (SS)

|  |  |  |
| --- | --- | --- |
| **Product Code** | **Size** | **Outside Dia MM** |
| MNSC 0025 | 1” | 33.4 |
| MNSC 0032 | 1 ¼” | 42.2 |
| MNSC 0040 | 1 ½” | 48.0 |

# **Cap Nut**

MNCN Cap Nuts are suitable for the MNSC swivel pipe clamps and can be easily assembled by hand, without the use of any tools.



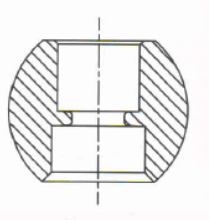
Material of Construction

* Body : GRPP - Glass Fiber Reinforced Polypropylene

|  |  |  |  |
| --- | --- | --- | --- |
| **Product Code** | **Connection Size** | **d\*** | **h\*** |
| MNCN 0125 | 1.25” | 59 | 22 |

# **Ball-Joint for Swivel Pipe Clamp**

MNBJ series threaded balls accepts metallic and non-metallic nozzles. These ball joints allow angular spray orientation from 25 degree to 40 degree depending on the nozzle size fitted in it. These are available with 1/4” & 3/8” BSP (F) or NPT (F) connections.



MNBJQ quick-fit ball joints have the same overall size and designed to accept the Mononeel Quick-fit nozzles.

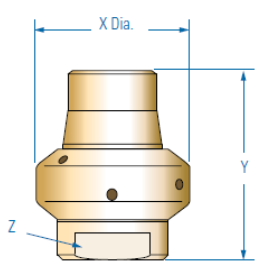
Material of Construction

* Body : GRPP - Glass Fiber Reinforced Polypropylene

|  |  |  |
| --- | --- | --- |
| **Product Code BSP (F)** | **Product Code NPT (F)** | **Connection Size** |
| MNBJ A014 | MNBJ B014 | 1/4” (F) |
| MNBJ A038 | MNBJ B038 | 3/8” (F) |
| MNBJ Q100 |  | Quick-Fit |

# **Tank Cleaning Nozzle - Reaction Drive**

MNTW Nozzles are specially designed for applications where chemical and strong acids are to be used, or when contamination to the product being handled is to be excluded, and therefore entirely made of PTFE (Food Grade).



Their rotary motion is derived from the reaction forces of their water jets, which are arranged in such a way that the inner tank surface is thoroughly covered and cleaned. The simple design, a two-piece construction, assures for long, maintenance free service. One Hastelloy C pin is used for locking the nozzles with supply pipeline.

Material of Construction :

* PTFE

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model No** | **Size (End Connection)** | **Flow Value at Different Pressure (LPM Bar)** | | | | **Dimensions** | | |
| **2** | **3** | **5** | **7** | **X** | **Y** | **Z** |
| MNTW 3120 | ¾” | 105 | 120 | 176 | 214 | 60 | 70 | 40 |
| MNTW 3198 | 1” / 1 ¼” | 158 | 198 | 274 | 322 | 74 | 84 | 40 |

# **Tank Cleaning Nozzle - Fixed Drive**

MNTW are fixed spray Nozzle simple, fast and efficient for cleaning inside of small tanks where a simple rising action is required. The simple design allows from the head easily cleaned after being operated, which make it possible to leave the heads ready for use. Because of the relatively high washing fluid flow rate, they are usually operated at low pressure and can achieve low impact action on the tank wall.



Material of Construction :

* Nozzle – SS 316L Stainless Steel
* Connection – Female BSP thread Pipe clip

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Model No.** | **D** | **D1** | **Flow values at different Pressure ( LPM Bar)** | | | **WR (m)** |
| 1 | 1.5 | 2 |  |
| MNTW 2044 | ¼” | 28 | 31 | 38 | 44 | 1,0 |
| MNTW 2127 | ½” | 50 | 90 | 110 | 127 | 1,6 |
| MNTW2312 | ¾” | 65 | 221 | 271 | 312 | 1,3 |
| MNTW2704 | 1” ¼ | 90 | 498 | 610 | 704 | 1,8 |

# **Tank Cleaning Nozzle - Fixed Drive**

MNTW are fixed head very compact device nozzle design for application like pipe washing or where only tight space is available. The thick walls of this devices which is machined form a stainless steel rod, make it good choice where washing process needs to be performed at high pressure and fast erosion should be avoided.



Material of Construction :

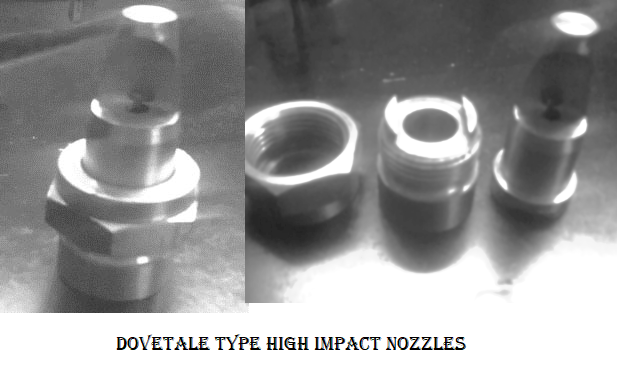
* Nozzle – SS 313 Stainless Steel, SS 316L Stainless Steel

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Model No.** | **E** | **Capacity at different Pressure (LPM Bar)** | | | | |
| 2 | 3 | 4 | 5 |
| MNTW3220 | 0,8 | 11,9 | 22,0 | 25,4 | 28,4 |
| MNTW3343 | 1,0 | 28,0 | 34,3 | 39,0 | 44,2 |
| MNTW3700 | 1,5 | 57,0 | 70,0 | 80,9 | 90,3 |
| MNTW3110 | 2,0 | 90,0 | 110 | 121 | 142 |

# **Different Types of Nozzles**









# **Different Types of PTFE Products**

## **Stirrer Bellow**

**Available Standard Sizes:**

5/8’’, 1’’, 1.5’’, 2’’, 3’’, 4’’, 6’’, 8’’, 9’’, 10’’, 12’’

## **Ball Joint Bellow**



**Available Standard Sizes:**

5/8’’, 1’’, 1.5’’, 2’’, 3’’, 4’’, 6’’, 8’’, 9’’, 10’’, 12’’  , 18”

## **Ball Joint Bellow**



**Available Standard Sizes:**

5/8’’, 1’’, 1.5’’, 2’’, 3’’, 4’’, 6’’, 8’’, 9’’, 10’’, 12’’

## **Valve Bellow**



**Available Standard Sizes:**

5/8’’, 1’’, 1.5’’, 2’’

## **Envelope Gasket**



**Available Standard Sizes:**

5/8’’, 1’’, 1.5’’, 2’’, 3’’, 4’’, 6’’, 8’’, 9’’, 10’’, 12’’, 24’’

## **Sight Glass**



**Available Standard Sizes:**

5/8’’, 3/4’’,  1’’, 1.5’’, 2’’, 2.5’’,  3’’, 4’’, 6’’

## **Line Bellow**



**Available Standard Sizes**

5/8’’, 1’’, 1.5’’, 2’’, 3’’, 4’’, 6’’, 8’’, 9’’, 10’’, 12’’

## **Mercury Seals**



**Available Standard Sizes**

B-14, B-19, B-24, B-29, B-34, B-45, B-70

## **Crescent Rings**



**Available Standard Sizes**

5/8’’, 1’’, 1.5’’, 2’’, 3’’, 4’’, 6’’, 8’’, 9’’, 10’’, 12’’  , 18”

# **Filter Element**

MEPL make filter element suitable for different type of duplex basket filter for cleaning, cooling application for cement plant, steel plant and sponge iron plants

# **Sprinkler**

MNPS Pipe Support offer an easy and convenient solution for holding the riser pipes in the tunnel of the pre-treatment plants, while making the maintenance operation faster. The spring holders can accommodate both steel as well as plastics pipes, two springs are provided for holding the pipe.



**Technical Specification**

* Trajectory Angle: 25 degrees
* 2" Female pipe connection.
* Pressure: 2 - 6 Bars.
* Weight: 3700 Gms.
* Flow rate: 18.7 - 41.2 m3/h (312 - 687 LPM).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Main Nozzle**  **Dia (mm)** | **Spreader Nozzle**  **Dia (mm)** | **Pressure at Sprinkler**  **KPA** | **Casting Radius**  **M** | **Discharge** | |
| M3/hr | LPM |
| 16.0 | 8.0 x 5.0 | 200 | 27 | 18.7 | 312 |
| 16.0 | 8.0 x 5.0 | 300 | 31 | 22.4 | 374 |
| 16.0 | 8.0 x 5.0 | 400 | 34 | 25.7 | 429 |
| 16.0 | 8.0 x 5.0 | 500 | 37 | 28.5 | 476 |
| 18.0 | 8.0 x 5.0 | 200 | 28 | 22.3 | 373 |
| 18.0 | 8.0 x 5.0 | 300 | 33 | 27.8 | 464 |
| 18.0 | 8.0 x 5.0 | 400 | 36 | 32.1 | 536 |
| 18.0 | 8.0 x 5.0 | 500 | 40 | 35.4 | 591 |
| 20.0 | 8.0 x 5.0 | 200 | 29 | 26.4 | 441 |
| 20.0 | 8.0 x 5.0 | 300 | 34 | 33.0 | 550 |
| 20.0 | 8.0 x 5.0 | 400 | 38 | 38.1 | 636 |
| 20.0 | 8.0 x 5.0 | 500 | 43 | 41.2 | 687 |