

# M & MW Mini Misting Nozzles



ICS is the exclusive distributor for Hago industrial nozzles

## Fine Atomising Water Spray Nozzles

A perfect solution where small size, accurate flow rates, very fine atomization and low flow rates are required.. Hago mini nozzles are widely used in agriculture, livestock breeding and industry for process cooling and coating where a fine mist is required

### M - Mini nozzle

#### Applications

Misting, cooling, humidifying  
Spraying light oils, waxes  
Livestock cooling  
Agriculture - misting

#### Materials

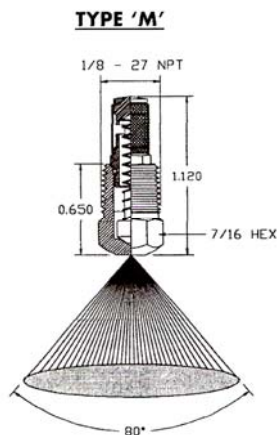
Brass  
416 stainless steel  
Nickel Silver

#### Construction

Integral 120 mesh strainer  
Unique design - allows easy cleaning and maintenance  
Shipped with protective plastic cap  
1/8"NPT male thread

#### Spray angles / pattern

Standard spray angle is 80° @ 7 bar  
Spray pattern - full cone



### MW- wide angle Mini nozzle

#### Applications

The same as the M type

#### Materials

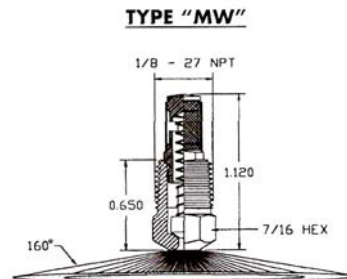
The same as the M type

#### Construction

The same as the M type

#### Spray angles / pattern

Standard spray angle is 160° @ 7 bar  
Spray pattern - hollow cone



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Model	M type flow rates @ bar (approx)						
	3	4	6	7	14	21	35
M1	0.04	0.045	0.048	0.08	0.09	0.11	0.15
M2	0.80	0.11	0.115	0.117	0.19	0.23	0.30
M3	0.11	0.15	0.17	0.19	0.30	0.34	0.42
M4	0.15	0.19	0.23	0.235	0.34	0.45	0.57
M5	0.19	0.23	0.26	0.30	0.45	0.53	0.72
M10	0.42	0.50	0.57	0.64	0.91	1.10	1.40
M15	0.61	0.72	0.83	0.95	1.32	1.63	2.12

Model	M type Sauter Mean Diameter (µm) @ bar						
	3	4	6	7	14	21	35
M1	39.4	34.1	30.3	28.4	22.6	20.7	17.4
M2	39.1	34.4	32.0	30.3	25.8	21.7	18.7
M3	39.5	35.9	34.8	32.4	25.5	22.4	18.3
M4	42.5	40.1	37.7	35.5	27.5	23.2	18.8
M5	45.2	38.8	35.5	33.7	29.3	24.6	19.3
M10	51.3	44.6	41.4	39.6	33.5	28.3	22.8
M15	65.7	61.5	58.4	55.0	38.6	31.9	23.9

Model	MW type flow rates @ bar (approx)						
	3	4	6	7	14	21	35
MW5	0.19	0.23	0.26	0.31	0.45	0.53	0.72
MW7	0.26	0.34	0.38	0.45	0.64	0.76	0.98
MW11	0.45	0.53	0.61	0.68	0.98	1.21	1.55
MW15	0.61	0.72	0.83	0.95	1.32	1.63	2.12

Model	MW type Sauter Mean Diameter (µm) @ bar						
	3	4	6	7	14	21	35
MW5	50.4	46.7	44.1	41.7	29.7	24.0	17.4
MW7	54.7	54.9	51.0	48.3	33.1	28.7	20.3
MW11	64.9	63.1	55.3	55.8	47.4	38.4	28.3
MW15	76.4	65.3	60.2	55.8	50.0	40.8	29.3

## Materials

### Brass

- ⇒ Our standard material of construction.
- ⇒ Supplied unless otherwise stated
- ⇒ Acceptable for most passive water applications.

### Stainless Steel 416

- ⇒ High chrome grade
- ⇒ Rust resistant, but not absolutely rust proof
- ⇒ Good resistance to erosion at higher water pressures
- ⇒ Medium corrosion resistance
- ⇒ Tolerates water with high mineral content

### Nickel Silver

- ⇒ Our best grade of material
- ⇒ Trade name for non-magnetic, nickel copper alloy
- ⇒ Good corrosion resistance - comparable to 316 stainless steel.

Chemical	Concentration	Temp (C°)	Rating
Acetic Acid	2.5%	21	A
Alcohols			A
Ammonia- dry gas			B
Ammonium Chloride		29	B
Bleach		21	B
Boric Acid		all	A
Chlorine - dry gas		all	B
Chromic Acid	5%		B
Citric Acid			A
Hydrochloric Acid	0.50%	21	A
Hydrochloric Acid	65%	21	A
Hydrogen peroxide		21	A
Lactic Acid	all	21	B
Mineral oils			A
Saline (mist/gas)		all	A
Sodium Chloride	all	all	A
Sulphuric acid	pure	21	B
Sulphuric acid	3%	21	A
Water, Brine			A

A = very good

B = good

C = fair