

OPTIONS AND ACCESSORIES

SINGLE AIR INLET (Body option U)

Air actuated atomizers can be supplied with a single air inlet for both the atomizing process and the air cylinder, which allows to operate a line of atomizers with only one air line and avoids air waste during the dead cycle times when atomizing is stopped.

With this layout the liquid inside the set-up, at shut-off time, will be atomized with a low air/liquid ratio and large drops may be produced: this option may be used for long dead times in atomizing cycles when some large droplet may be tolerated and it is necessary to limit system investment cost.

Minimum working pressure 2 bar.



SPECIAL MATERIALS AND COATINGS

Tungsten carbide air nozzles, air and liquid nozzles with special high technology coatings may be produced to solve problems related to excessive wear from liquids carrying solid particles or build-up of solid deposits or lime inside the atomizer.

Those include Teflon coatings and extra-hard linings.



SPECIAL DESIGNS

Our engineering office is available to design, test and produce bodies, set-ups and complete systems according to the customer requirements.

Special parts, bodies and systems which suit specific customer needs can be arranged under confidentiality agreements, supplied exclusively and not advertised.



ATOMIZER WALL MOUNTING

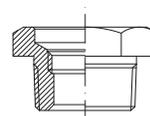
It is often convenient to mount atomizers through the wall of a tank or a duct for air treatment, keeping the atomizers and the feed lines on the outside for ease of maintenance.

The following parts can serve this purpose for both MW standard atomizers and MX air actuated ones.



WALLS THICKER THAN 10 MM

A nipple XMW 0021 xx with an outer tapered thread 3/4" Bspt is recommended, with a corresponding passage in the wall threaded 3/4" straight thread.



XMW 0021 xx

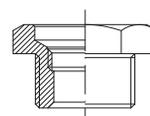


WALLS THINNER THAN 10 MM

For thin walls it is recommended to use a XMW 0020 xx nipple with a 3/4" straight thread, secured through the locknut VAC 0076 xx and the VDA 0075 P7 seal.

The above three parts can be ordered together with the assembly code XMW 0025 xx.

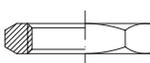
A simple hole with 27 mm diameter is required into the wall.



XMW 0020 xx



VDA 0075 P7



VDA 0076 xx



Materials	Nipple, locknut	B1 AISI 303 stainless steel
		T8 Nickel plated brass
	Seal	P7 Oil proof seal material

AMBIENT HUMIDIFICATION

Keeping a correct value for ambient humidity is sometimes a necessary pre-requisite in several industrial processes.

An ambient humidification system can perform additional functions like keeping ambient temperature within certain limits, keeping flying dust under control, disinfect the room atmosphere or even keep a fire under control while the fire fighting squad reaches the place.

We supply the components shown in the following or can quote a complete system.

A perfect system is obviously based on high quality atomizers and instrumentation, manufactured and guaranteed by qualified and experienced professionals.

We present in the following our MA ultrasonic atomizers and MX air actuated atomizers, which have been designed for optimum performance and applied successfully in tens of thousands to the most different industrial processes.

These long proven devices are complemented by our long time proven regulation and programming cabinets, continuously reconsidered and upgraded to the latest technologies.

Both atomizers shown in this page can be supplied with the following accessories:

- Wall support with swivel joint.
- Quick couplings for air and water

AIR ACTUATED ATOMIZERS

An air actuated MX atomizer is a highly efficient component in a humidification system.

It can be delivered as a standard with two air inlets, for liquid atomizing and cylinder control, or with a single air inlet to perform both tasks.

The latter type allows for simultaneous control of several atomizers assembled in line with only one air line, and requires a minimum air pressure value of 2 bars.

Our unique needle design assures perfect tightness when atomizers are shut off.

The swivel mount allows for the best jet orientation to obtain fast and uniform evaporation, while optional coatings are available for the inner nozzles to prevent lime build-up and reduce maintenance cost.



RECOMMENDED MODELS

Stainless steel	two air inlets	MXB 2142 B1 SBB
	single air inlet	MXB 2142 B1 UBB
Nickel coated brass	two air inlets	MXB 2142 T8 SBB
	single air inlet	MXB 2142 T8 UBB

ULTRASONIC ATOMIZERS

The ultrasonic atomizers MA are recommended for humidification systems designed for large surfaces because of their long spray throw and their large liquid capacity.

Operating these atomizers originates a low frequency sound which limits their applications to those systems where personnel is not present at the time when the humidification process starts.

Electric control

The special atomizer body (PVC) contains an electro-valve controlling the liquid supply.

Because of the short liquid path from the valve to the orifice, no dripping occurs.

Each atomizer requires an electrical connection (options 220V, 48V, 24V).

Air control

The atomizer body in stainless steel contains a pneumatic valve controlling the liquid supply.

Liquid feed is automatically stopped when air pressure value falls under 2,5 bar.

This is a very simple system, and easy to be assembled since no electrical connection is required.

However the pneumatic valve can only handle pure water, no additives are allowed.



RECOMMENDED MODELS

MAD 1131 B1 xyz
MAD 0801 B1 xyz