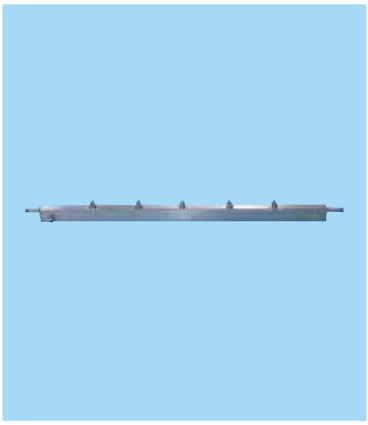
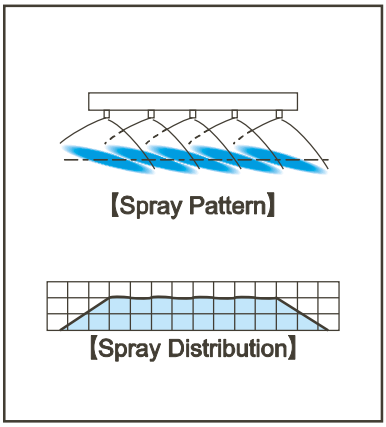
Integrated Spray Header with BIM Fine Fog Nozzles

Features

■Spray header equipped with BIMV-series (liquid pressure type) producing fine atomization with mean droplet diameter of 100μm or less (*1).
■Combines two pipes for air and water into one rectangular spray header.
Very compact and easy for installation and maintenance.
■Uniform spray distribution across the entire spray area.

*1) Measured by Laser Doppler Method



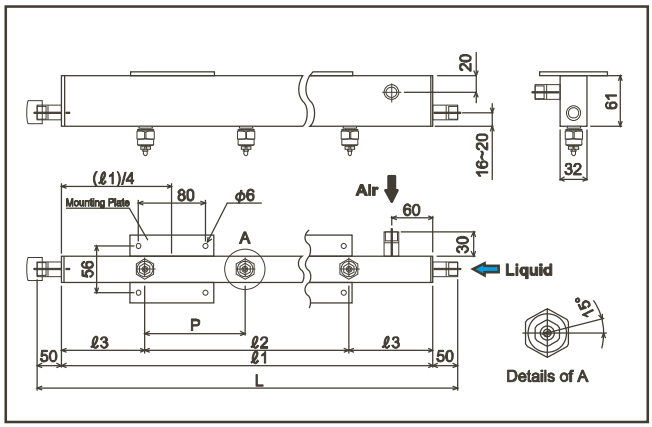


Applications

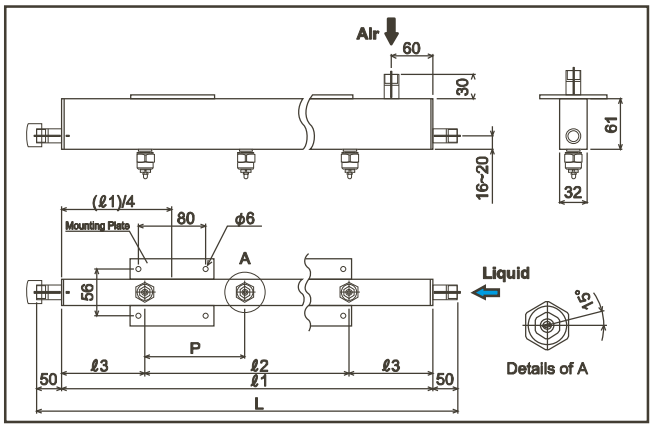
■Spraying: Oil, surface treatment agent, etc.
■Cooling: Moldings, steel plates, glass plates, plastic film, etc.
■Cleaning: Printed circuit boards, shadow masks, etc.

Structure, Materials & Dimensions

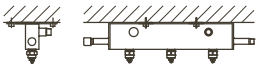
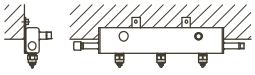
Air/Liquid inlet position [type A]



Air/Liquid inlet position [type B]



Type of Mounting Plate

None	
F	
S	

F: To install facing perpendicular from a wall.
S: To install facing parallel along a wall edge.

■Dimensions

Header Code		Nozzle Spacing	Nozzle Quantity	Spacing (mm)		Pipe Connection Size						Material	
						BIMV11002		BIMV11004		BIMV110075			
Header Length ℓ1 (mm)	Total Length L (mm)	P (mm)	(pcs.)	ℓ2	ℓ3	Air	Liquid	Air	Liquid	Air	Liquid	Nozzle	Header
1000	1100	100	10	900	50	3/8M	1/4M	3/8M	1/4M	1/2M	3/8M	S303	S304
		200	5	800	100					3/8M	1/4M		
2000	2100	100	20	1900	50	1/2M	3/8M	1/2M	3/8M	3/4M	1/2M		
		200	10	1800	100	3/8M	1/4M	3/8M	1/4M	1/2M	3/8M		

Air Consumption & Spray Capacity

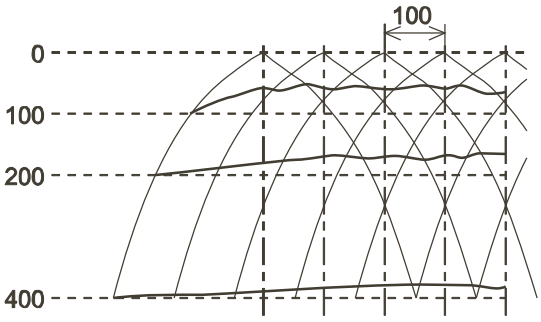
Nozzle Code	Nozzle Quantity	Air Pressure (MPa)	Air Consumption (ℓ/min, Normal)	Spray Capacity (ℓ/hr) (at liquid pressure of 0.1MPa)
BIMV11002	5	0.3	100	5.0
	10		200	10.0
	20		400	20.0
BIMV11004	5	0.3	180	10.0
	10		360	20.0
	20		720	40.0
BIMV110075	5	0.3	370	20.0
	10		740	40.0
	20		1480	80.0

Note: Total air consumption and spray capacities shown in the above table are calculated from number of nozzles used, based on each air consumption and spray capacity described on page 14.

Spray Distribution

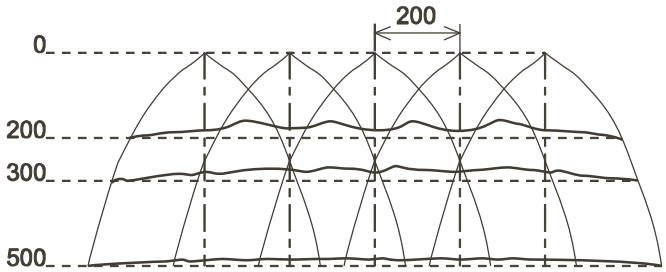
■BIMV11004S303

Nozzle spacing: 100mm,
Compressed air pressure: 0.3MPa, Liquid pressure: 0.1MPa,
Offset angle (nozzle tip angle to axis of header): 15°



■BIMV11004S303

Nozzle spacing: 200mm,
Compressed air pressure: 0.3MPa, Liquid pressure: 0.1MPa,
Offset angle (nozzle tip angle to axis of header): 15°



How to order

To determine specifications, please specify a nozzle code, nozzle quantity, nozzle spacing and header length etc., using this coding system.

<Example> BIMV11002S303+10(P100)A1000F(Pre-setting15°, L=1100)

BIMV11002 S303+ 10 (P 100) A 1000 F (Pre-setting 15° , L= 1100)

Nozzle Code*1	Nozzle Quantity	Nozzle Spacing	Inlet Position	Header Length	Type of Mounting Plate	Offset Angle	Total Length
■BIMV11002	■5	■100	■A	■1000	■F	■(0°)*3	■1100
■BIMV11004	■10	■200	■B	■2000	■S	■15°	■2100
■BIMV110075	■20 (pcs.)				■(None)*2		

*1) Note: For details of BIMV nozzles, see page 14.
Please contact our sales office for other air/liquid inlet position (connection) types.

*2) Blank denotes "without plate".
*3) Blank denotes 0°.