

Small Capacity Fine Fog Nozzles

Flat Spray

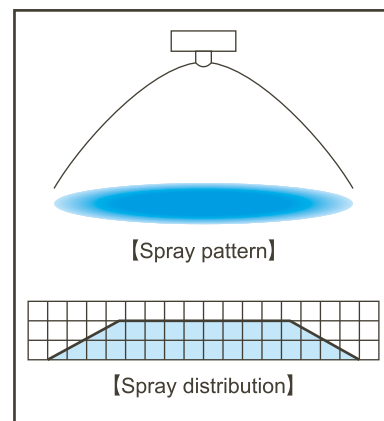
—Liquid Siphon Type—

BIMV-S

Features

- Flat spray pneumatic nozzle producing fine atomization with a mean droplet diameter of 30 μm or less.*1
- Liquid siphon feed type (liquid pressure device is not required).
- Spray angle of 80°.
- Even spray distribution across the entire spray area.

*1) Droplet diameter measured by laser Doppler method



BIMV-S with T-type adaptor

Applications

- Spraying: Mold release agent, lubricant, deodorant, oil, surface treatment agent, rust preventive, honey, insecticide, aqueous urea
- Cooling: Dies, gas, glass, steel plates, steel pieces, moldings, automobile bodies, plastic products
- Moisture control: Paper, flue gas, ceramics, concrete
- Cleaning: Printed circuit boards, glass tubes

Structure & Materials

- Comprising four parts: Spray tip, core, cap, and adaptor. (Details of adaptors are shown on [pages 23 and 24](#).)
- Materials: S303 (Optional material: S316L)

Dimensions & Pipe Conn. Sizes

- Dimensions and pipe connection sizes are shown on [page 24](#).

Accessories

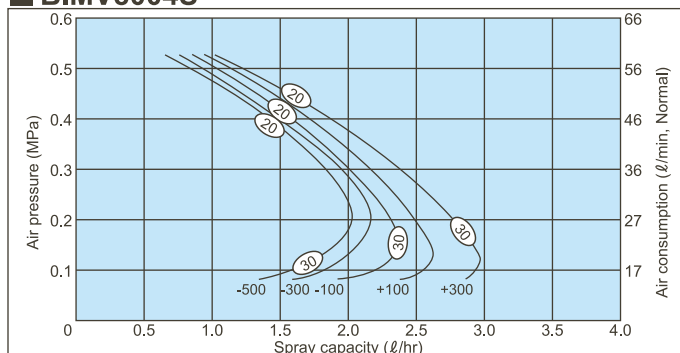
- Mounting bracket for easy installation is shown on [page 26](#).

Flow-rate Diagrams

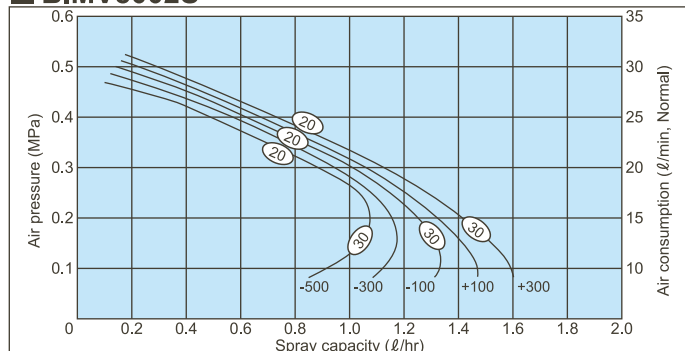
How to read the chart

- ① The spray capacity shown is for one nozzle.
- ② Figures at foot of each curve indicate gravity head (+) and siphon height (−) in mm.
- ③ Figures in ovals indicate Sauter mean droplet diameters (μm) measured by laser Doppler method.
- ④ These flow-rate diagrams are applicable to adaptors type T and N only.

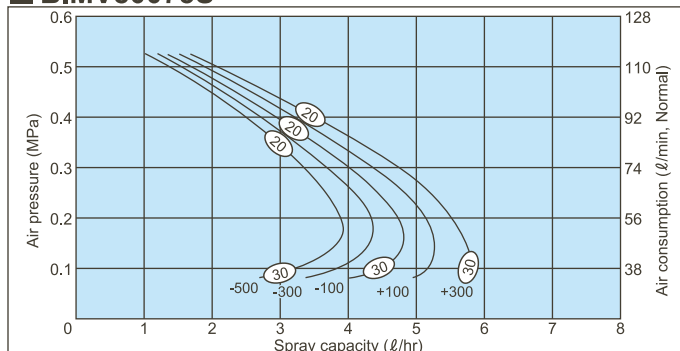
BIMV8004S



BIMV8002S



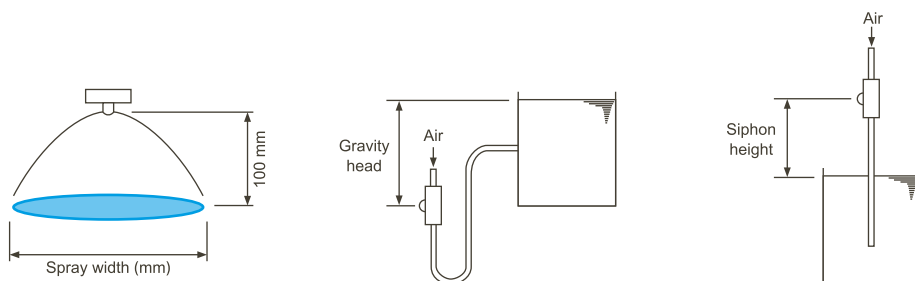
BIMV80075S



Spray angle code *2	Air consumption code	Air pressure (MPa)	Air consumption (ℓ/min, Normal)	Spray capacity (ℓ/hr)					Spray width*3 (mm)	Mean droplet diameter (μm)	Free passage diameter (mm)			
				Gravity head (mm)		Siphon height (mm)					Laser Doppler method	Spray orifice	Adaptor	
				+300	+100	-100	-300	-500					Liquid	Air
80	02	0.2	15	1.4	1.3	1.2	1.2	1.1	160	20—30	0.3	0.9	0.7	
		0.3	20	1.1	1.0	1.0	0.9	0.9	165					
		0.4	25	0.7	0.7	0.6	0.6	0.5	170					
	04	0.2	27	2.8	2.5	2.3	2.2	2.0	165	20—30	0.5	0.9	0.9	
		0.3	36	2.4	2.1	2.0	1.9	1.8	170					
		0.4	46	1.9	1.7	1.6	1.5	1.4	175					
	075	0.2	56	5.5	5.1	4.7	4.3	3.9	170	20—30	0.7	1.2	1.4	
		0.3	74	4.7	4.3	4.0	3.7	3.3	180					
		0.4	92	3.5	3.2	2.9	2.7	2.5	190					

*2) Spray angle measured at compressed air pressure of 0.3 MPa and liquid siphon height of 100 mm.

*3) Measured at 100 mm from nozzle and liquid siphon height of 100 mm.



How to order

Please inquire or order for a specific nozzle using this coding system.

<Example> BIMV 8002S S303 + N S303

BIMV	80	02	S	S303	+	N	S303
		Air consumption code	Siphon type			Type of adaptor	
		■02				■N	■SPB
		■04				■T	■USPB
		■075				■NDB	■SNB
						■UNDB	■USNB

Details of adaptors are shown on [pages 23 and 24](#).