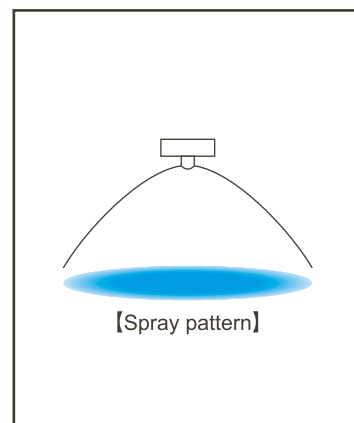


Clog-resistant Wide-angle Flat Spray Fine Fog Nozzles

YYA

Features

- Wide-angle flat spray pneumatic nozzle producing fine atomization with a mean droplet diameter of 15–30 μm .^{*1}
- External mixing type (designed to mix air and liquid outside the nozzle).
- Unique 2-step atomization mechanism enables a wide spray angle of 80°. Combines “clog-resistant” and “wide spray angle” features.
- Compact, 22 mm-long design.
- Capable of spraying viscous liquid up to approx. 300 cP.^{*2}



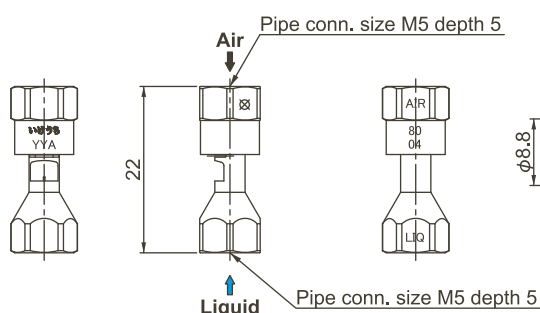
*1) Droplet diameter measured by laser Doppler method
 *2) Spray capacity and spray angle are reduced when viscous liquid is sprayed.
 Raising the liquid pressure to 0.2–0.3 MPa is recommended when spray capacity is small, otherwise the spray pattern becomes irregular.

Applications

- Spraying viscous liquid such as oil and honey

Structure, Materials, Dimensions & Pipe Connection Sizes

- Material: S303



Spray angle code *3	Air consumption code	Air pressure (MPa)	Air consumption (ℓ/min, Normal)	Spray capacity (ℓ/hr)				Spray width*4 (mm)				Mean droplet diameter (μm) Laser Doppler method	Free passage diameter (mm)		Mass (g)
				Liquid pressure (MPa)				Liquid pressure (MPa)					Liquid	Air	
				0.01	0.05	0.1	0.2	0.01	0.05	0.1	0.2				
80	04	0.2	27	2.2	5.0	7.1	10.0	160	170	170	—	15–30	0.4	0.2	5
		0.3	36					170	170	180	190				
		0.4	45					170	180	190	200				
		0.5	54					180	180	200	210				

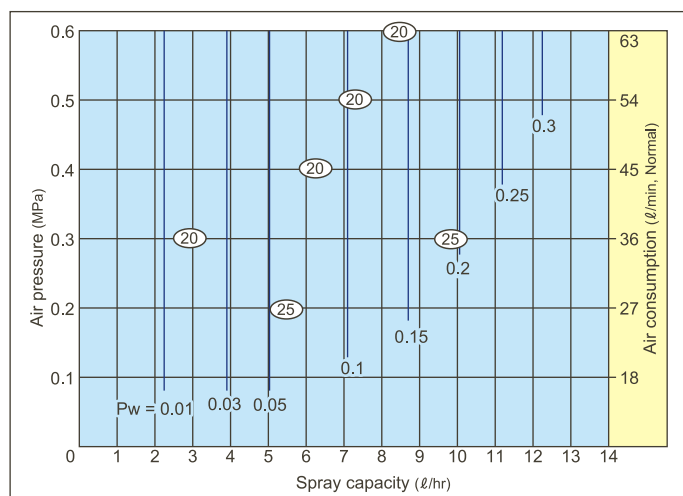
*3) Spray angle measured at compressed air pressure of 0.3 MPa and liquid pressure of 0.05 MPa.

*4) Spray width measured at 100 mm from nozzle.

Flow-rate Diagram

- How to read the chart

- ① The spray capacity shown is for one nozzle.
- ② Figures at the foot of each line indicate liquid pressures P_w in MPa.
- ③ Figures in ovals \bigcirc indicate Sauter mean droplet diameters (μm) measured by laser Doppler method.



How to order

Please inquire or order using this product code.

M5F YYA 8004 S303