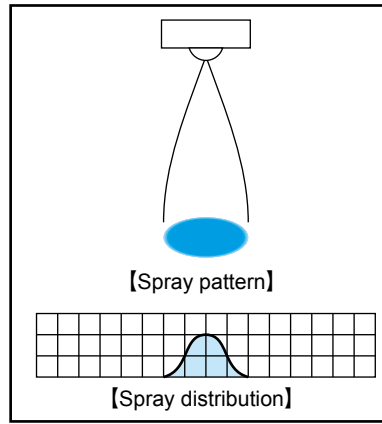


Clog-resistant Fine Fog Nozzles with Spray Control Adaptor

SETO-SP



- Full cone spray pneumatic nozzle producing fine atomization with a mean droplet diameter of 50 μm or less.*1
- Clog-resistant design. Optimal for spraying viscous liquids.
- External mixing type (designed to mix air and liquid outside the nozzle for atomization).
- Built-in piston activated by pilot air prevents liquid dripping from the nozzle and provides fast response to spray ON/OFF control.
- Compact, 46 mm-long design to fit in tight spaces.
- Capable of controlled intermittent liquid dispensing by using as a hydraulic spray nozzle without atomizing air supply.

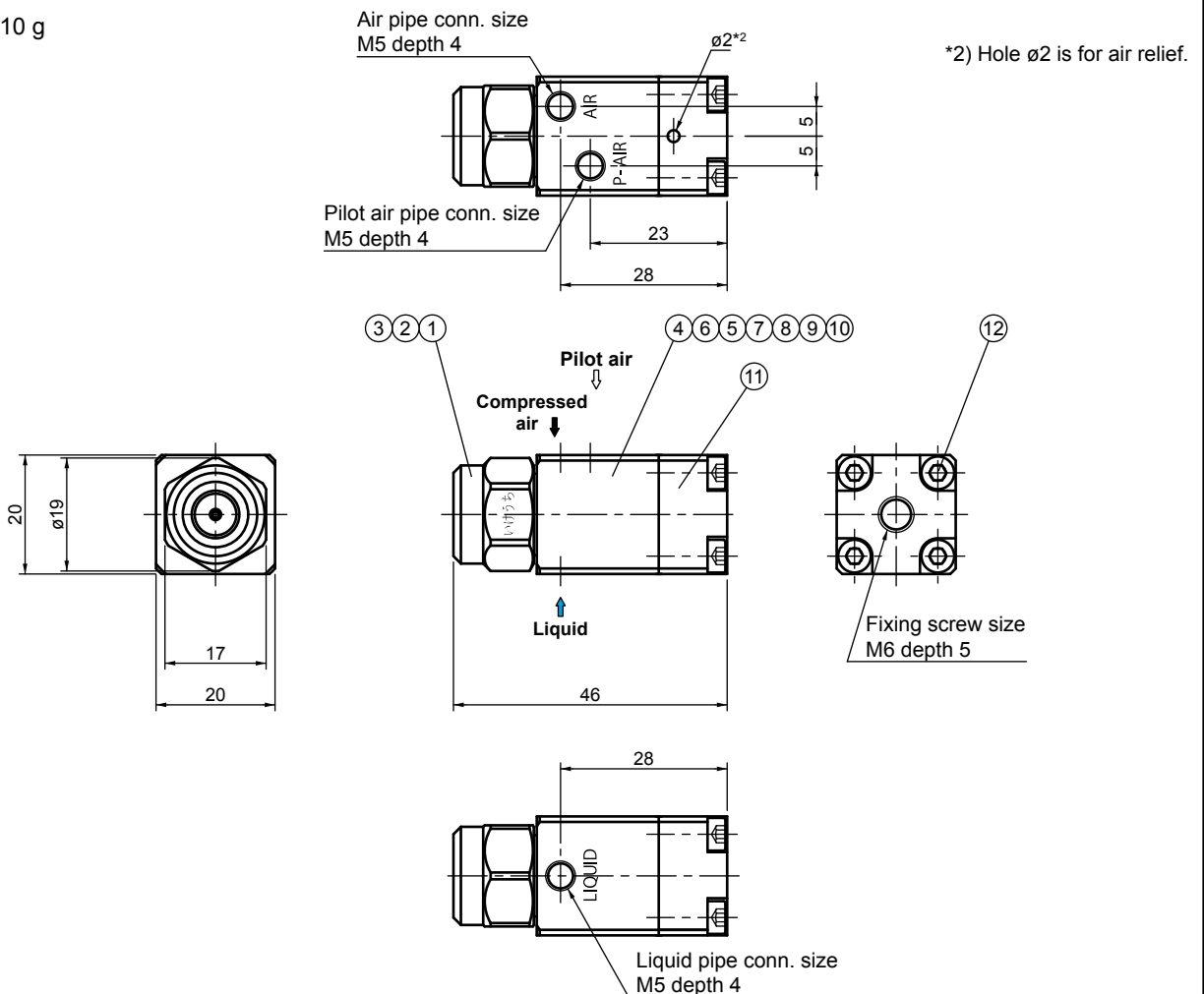
*1) Droplet diameter measured by laser Doppler method

APPLICATIONS

- Spraying: Oil, lubricant, mold release agent, honey, aqueous urea, rust preventive, glaze, viscous liquid, slurry

DRAWING

■ Mass: 110 g



COMPONENTS AND MATERIALS

| No. | Components | Standard materials |
|-----|-------------|--------------------|
| 1 | Nozzle tip | S303 |
| 2 | Nozzle body | S303 |
| 3 | Cap | S303 |
| 4 | Adaptor | S303 |
| 5 | O-ring | NBR |
| 6 | O-ring | NBR |

| No. | Components | Standard materials |
|-----|----------------------------|--------------------|
| 7 | O-ring | FKM |
| 8 | Piston | S303 |
| 9 | Y-packing | NBR |
| 10 | Spring | S304 |
| 11 | Spring cap | S303 |
| 12 | Hex socket screw (M3x14mm) | S304 |

Unit: mm

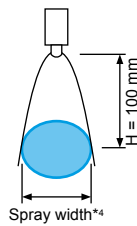
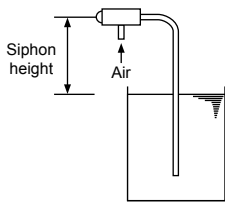
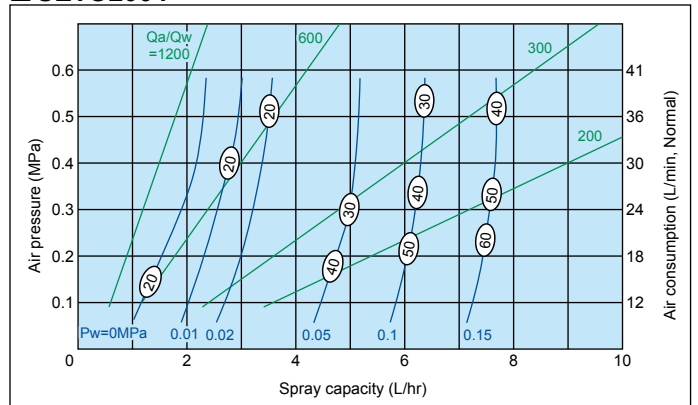
SETO-SP

FLOW-RATE DIAGRAMS

■ How to read the chart

1. The spray capacity shown is for one nozzle.
2. Blue lines (—) represent liquid pressures P_w in MPa.
3. Green lines (—) represent air-water ratio Q_a/Q_w .
4. Measured at liquid siphon height of 100 mm when P_w is 0 MPa.
5. Figures in ovals ○ indicate Sauter mean diameters (μm) measured by laser Doppler method (measured at 300 mm from the nozzle).

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PERFORMANCE DATA

| Air consumption code | Spray capacity code | Air pressure (MPa) | Air consumption (L/min, Normal) | Spray capacity (L/hr) | | Spray width*4 (mm) H = 100 mm | Mean droplet diameter*4 (μm) Laser Doppler method | Free passage diameter (mm) | |
|----------------------|---------------------|--------------------|---------------------------------|-----------------------|------|----------------------------------|------------------------------------------------------|----------------------------|-----|
| | | | | Liquid pressure (MPa) | | | | Liquid | Air |
| | | | | 0 (Siphon)*3 | 0.05 | | | | |
| 02 | 04 | 0.2 | 18 | 1.5 | 4.7 | 40–50 | 10–50 | 0.4 | 0.1 |
| | | 0.3 | 24 | 1.9 | 5.0 | | | | |
| | | 0.4 | 30 | 2.2 | 5.1 | | | | |

*3) Siphon height: 100 mm.

*4) Measured at compressed air pressure of 0.3 MPa and liquid pressure of 0 MPa (siphon height of 100 mm).

HOW TO ORDER

Please inquire or order using this product code.

SETO 0204 S303 + CSP S303