

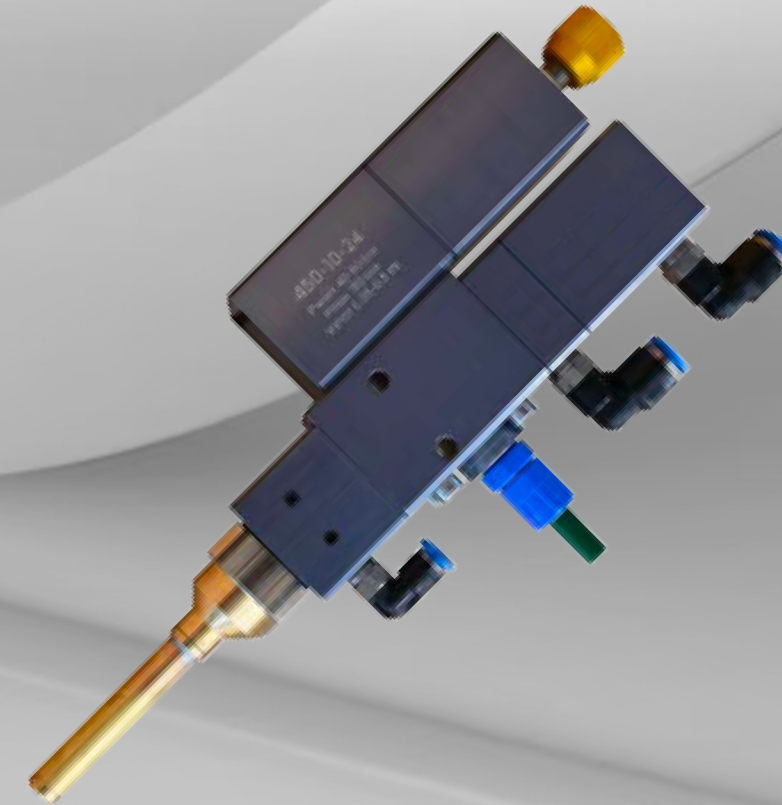
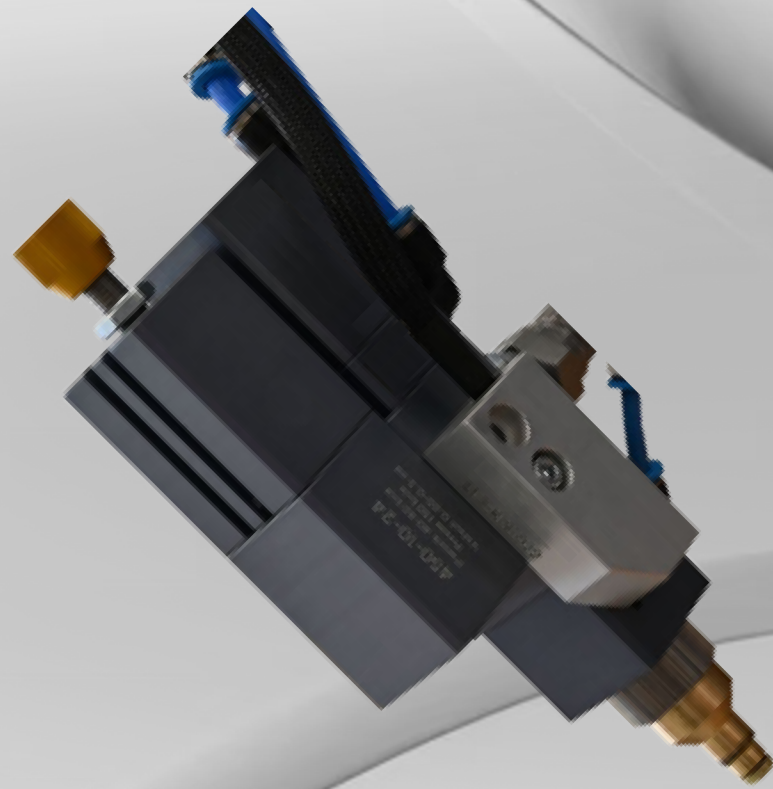
OSCV SH / OSNV SH Series

ONE-SHOT CHAMBER VALVE

Improving dispensing application with sunbelt-mte **OSCV SH & OSNV SH Series**



SH



DESCRIPTION

Our One-Shot Valve System, including chamber valves OSCV-S1L and OSNV-S1L, as well as needle metering valve OSNV-S2, offers precise fluid dispensing.

A universal spray adapter allows for easy attachment of various custom spray nozzles, enabling a wide range of spray patterns: ahead 15°, angle 45°, 90°, 135°, and circle 360°. Nozzles are available in different lengths, outer diameters, and inner diameters (0.3, 0.5, 0.8, 1.0 mm).

This system ensures accurate dosing, unaffected by ambient conditions like temperature, pressure, time, and viscosity.

Optional features include heating, proximity sensors, control solenoid 5/2, and solenoid 3/2 for air spraying. Durable lip seals extend piston life, while a stop screw with a locking nut enables precise volume control.

PRODUCT FEATURES:

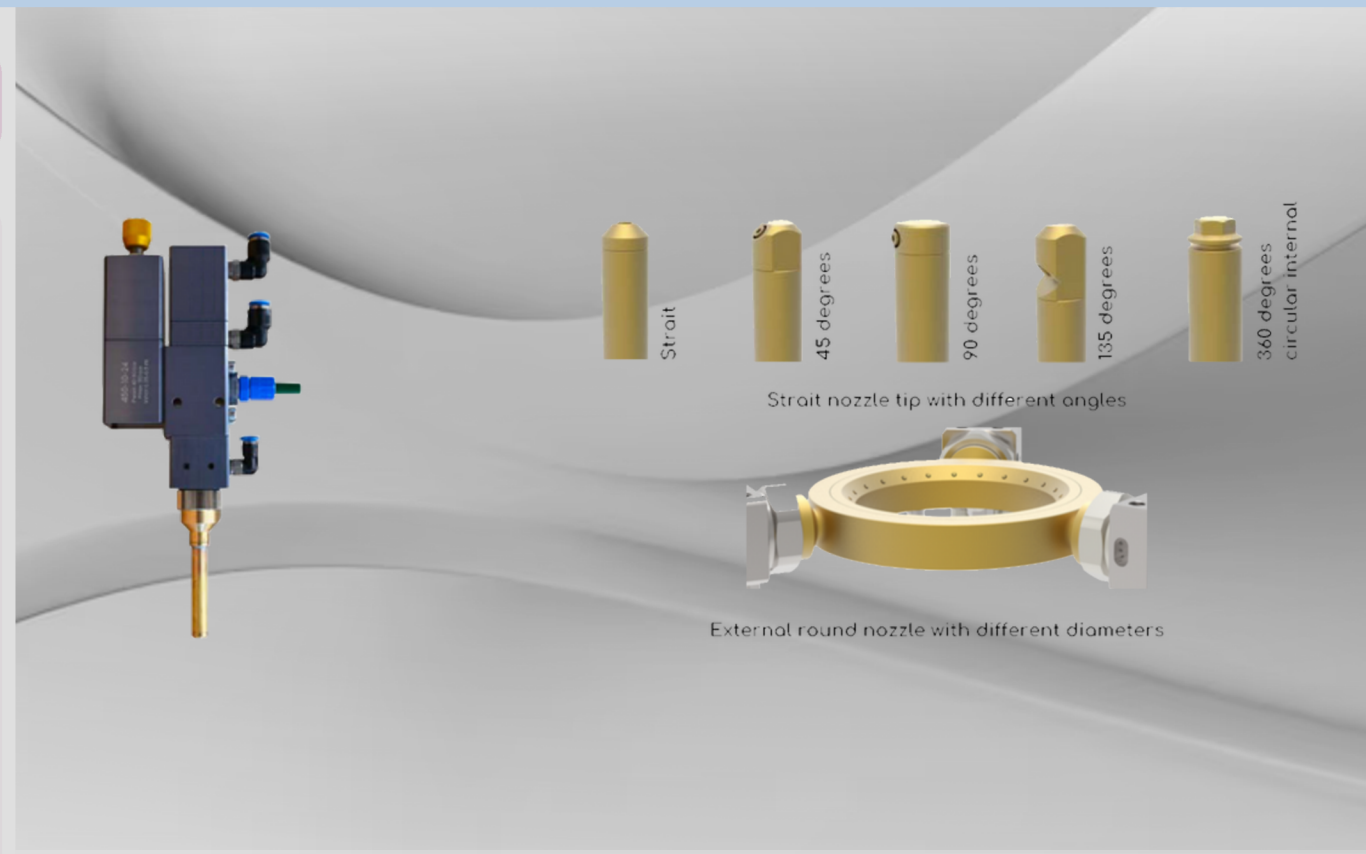
- Shot Size: 0.003 - 3.0 cm³
- Material Input Pressure:
 - Chamber Valves: 40-80 bar (max. 160 bar)
 - Needle Valves: 3-20 / 3-50 bar
- Pneumatic Pressure: 2-8 bar
- Stroke Detection: Magnetic Groove Sensors
- Snuff-Back Prevention: Special Cartridge Lip Seal
- Viscosity Range: 100 - 1,000,000 mPa·s

TECHNICAL DATA SHEET



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TECHNICAL DATA	OSCV-S1 SH	OSCV-S2 SH	OSCNV-S3 SH	OSCNV-S4 SH
Order Number	00004205	00004206	00004207	00002627
Model / Type	450-10-74	450-10-76	450-20-05	450-20-00
Shot size range cm3:	0.05 - 0.5	0.1 - 3.0	0.003 - 0.2	0.05 - 1.0
Pressure ratio bar	40-80	40-80	3-50	3-20
[psi]:	580- 1160	580- 1160	45 - 725	45 - 290
Air Port A and B:	G1/8" BSPP	G1/8" BSPP	G1/4" BSPP	G1/4" BSPP
Material Port C:	G1/4" BSPP	G1/8" BSPP	G1/4" BSPP	G1/4" BSPP
Outlet type:	Threaded	Threaded	Threaded	Threaded
Displacement detection:	Magnetic	Magnetic	Magnetic	Magnetic
Frequency:	--	--	--	--
Adjustment screw:	YES	YES	YES	YES
Body material:	AL	AL	AL	AL
Surface treatment:	Anodized	Anodized	Anodized	Anodized
Needle material:	Steel	Steel	Steel	Steel



UPGRADE:


For added flexibility, the valve can be equipped with a hand grip for manual use.

- Pneumatic activation PN 00003094
- Electric activation PN 00003392
- 5/2 pneumatic control valve
- Magnetic non-contact control sensor (PNP or NPN) for series 450
- Cannula adapter PN 00004247
- Heating



ACCESSORIES

- **NEEDLE**
 - stainless steel
 - Series Type D32
- **HEATING**
 - Valve heating plaque
 - Heating control system
- **MPR (MATERIAL PRESSURE REGULATOR)**
 - For lubricants with check valve
 - For adhesives and Sealants with diaphragm
- **MPP (Material Pressure Pot)**
 - 5 types QL,LL, LL-AA, LL-EA
 - QL (Quick Lid) 3.5 / 4.0 / 5.0 Liter SS
 - LL (Lid Lock) 2.0 / 5.0 / 10.0 Liter SS
 - LL-AA (Lid Lock-Air Agitator) 20 / 30 / 45 Liter SS
 - LL-EA (Lid Lock-Electric Agitator) 1.0 / 2.0 / 5.0 / 10.0 Liter SS

*the part # is only used as type/ model identification

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