

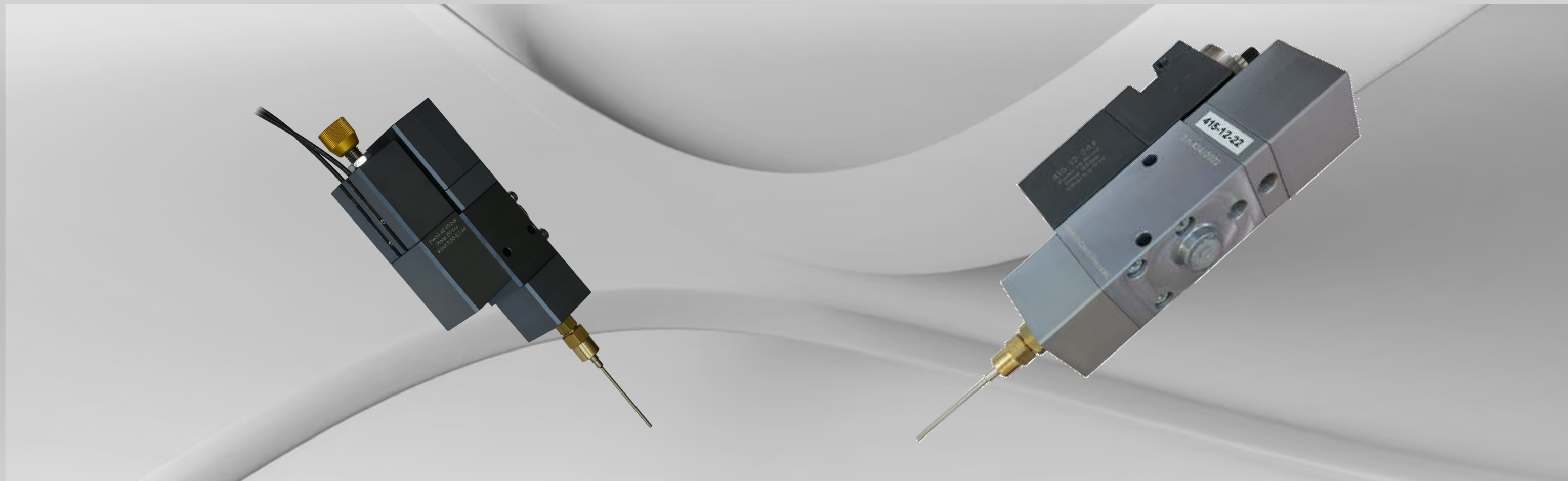
# OSCV Series

ONE-SHOT CHAMBER VALVE

Improving dispensing application with sunbelt-mte **OSCV Series**



# CV



## DESCRIPTION

Sunbelt-MTE chamber metering valves are designed for spot applications of materials ranging from low to high viscosity. Depending on the model, these valves can dispense from 0.05 to 100 cm<sup>3</sup> per shot with high repeatability. The valve system is divided into two main components: the control valve and the metering chamber.

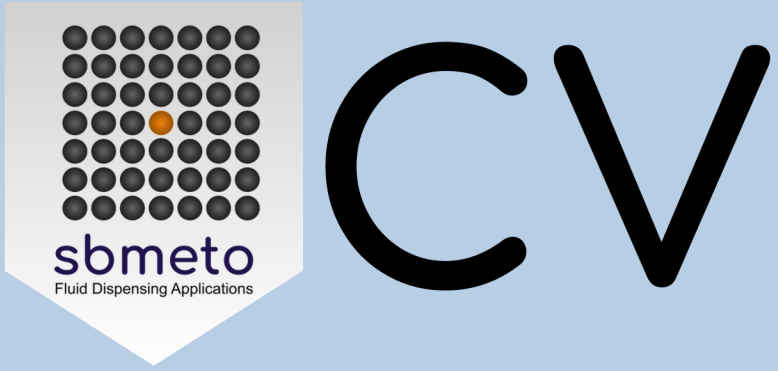
The dispensed amount is adjusted using a stop screw with a locking nut on the chamber. The chamber features two grooves for easy mounting of magnetic sensors, providing 100% confirmation that the set amount has been successfully applied. A unique return suction design prevents material from dripping after each shot.

Special lip seals are used to seal the moving pistons, offering significantly longer service life compared to standard O-rings. The valve is pneumatically controlled using a 5/2-way valve (not provided, available as option).

## PRODUCT FEATURES:

- Point-volume dispensing
- Shot setting range from 0.05 to 100 cm<sup>3</sup> [0.003 to 6.1 in<sup>3</sup>], depending on model
- Material inlet pressure: 40–80 bar [580 to 1160] (maximum allowed pressure: 160 bar [2320 psi])
- Shot confirmation with magnetic groove
- For added flexibility, the valve can be equipped with a hand grip for manual use
- Retrofitting with a heating function also available.

# TECHNICAL DATA SHEET



ONE-SHOT CHAMBER VALVE  
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TECHNICAL DATA	OSCV-S1	OSCV-S2	OSCV-S3	OSCV-S4
Order Number	00002624	00002625	00002626	00002627
Model / Type	450-10-73	450-10-75	415-12-22	415-111-0
Shot size range				
in3:	0.003 to 0.3	0.006 to 0.18	0.03 to 0.73	0.3 to 6.1
cm3:	0.05 - 0.5	0.1 - 3.0	0.5- 12.0	5.0 - 100.0
Pressure ratio				
bar:	40-80	40-80	40-80	40-80
psi:	580- 1160	580- 1160	580- 1160	580- 1160
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



OSCV-S1  
OSCV-S2

OSCV-S3  
OSCV-S4



**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