

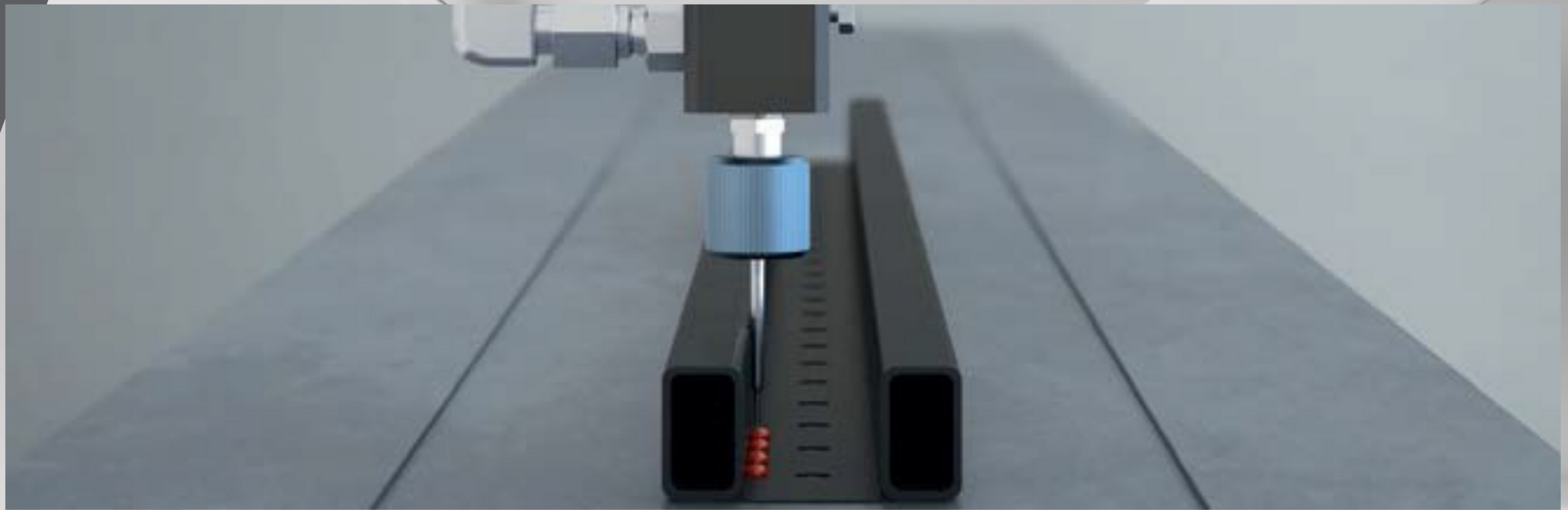
OSNV Series

ONE-SHOT NEEDLE VALVE

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



NV



DESCRIPTION

Needle Dispensing Valves

SBMETO needle metering valves dispense low to high viscosity fluids. The valve's two-part design prevents material from entering the drive cylinder. A double lip seal protects the valve needle. Material output is adjusted with a stop screw.

Compressed air fills the metering chamber, raising the needle. Pressure then forces the needle down, dispensing material. The needle seals the chamber when fully lowered. Valves can be controlled pneumatically or electrically and suit both manual and automated processes.

FEATURES

- Volumetric adjustable
- High-speed cycle times
- Shot size: 0.001 – 3.0 cm³ (depending on model)
- Material input pressure: 3 – 50 bar
- Double lip seal for low maintenance and extended valve life

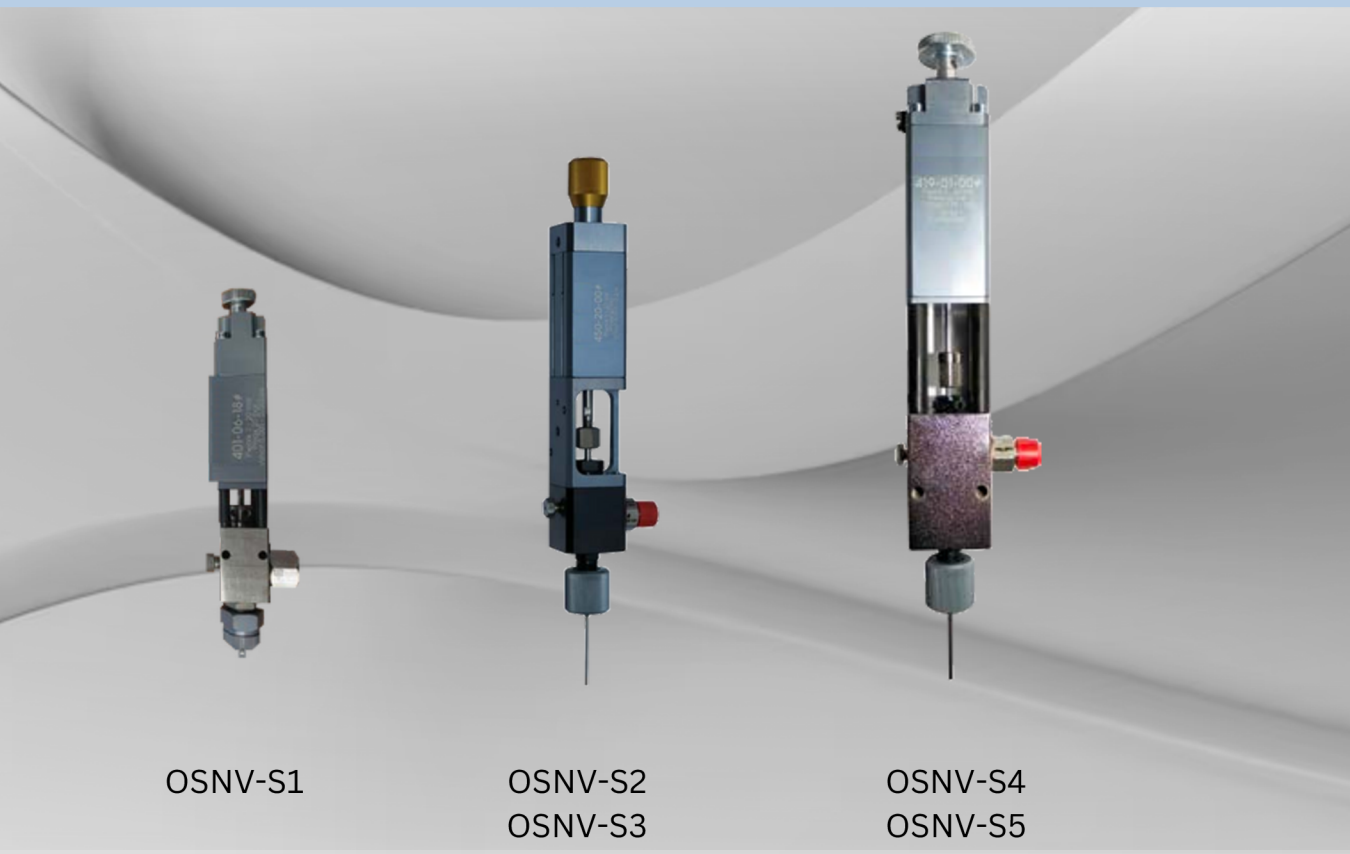
TECHNICAL DATA SHEET

TIME PRESSURE NEEDLE VALVE

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




TECHNICAL DATA	OSNV-S1	OSNV-S2	OSNV-S3	OSNV-S4	OSNV-S5
Order Number	00004202	00003825	00003618	00003826	00003827
Model / Type	401-06-18	450-20-00	450-20-03	419-01-00	419-03-00
Shot size range cm3:	0.0001 - 0.01	0.003 - 0.2	0.003 - 0.2	0.003 - 0.2	0.003 - 0.2
Pressure ratio bar	3-20	3-20	3-50	3-20	3-20
[psi]:	43.5 - 290	43.5 - 290	43.5 - 725	43.5 - 290	43.5 - 290
Air Port A and B:	G1/8" BSPP	G1/4" BSPP	G1/4" BSPP	G1/4" BSPP	G1/4" BSPP
Material Port C:	G1/4" BSPP	G1/4" BSPP	G1/4" BSPP	G1/4" BSPP	G1/4" BSPP
Outlet type:	Needle	Needle	Needle	Needle	Needle
Displacement detection:	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic
Frequency:	--	--	--	--	--
Adjustment locking screw:	YES	YES	YES	YES	YES
Body material:	AL	AL	AL	AL	AL
Surface treatment:	Anodized	Anodized	Anodized	Anodized	Anodized
Needle material:	Steel	Steel	Steel	Steel	Steel



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

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



SUNBELT MECHATRONICS, LLC
 1949 NE 164TH STREET
 N MIAMI BEACH, FL 33162
 INFO@SBMETO.COM