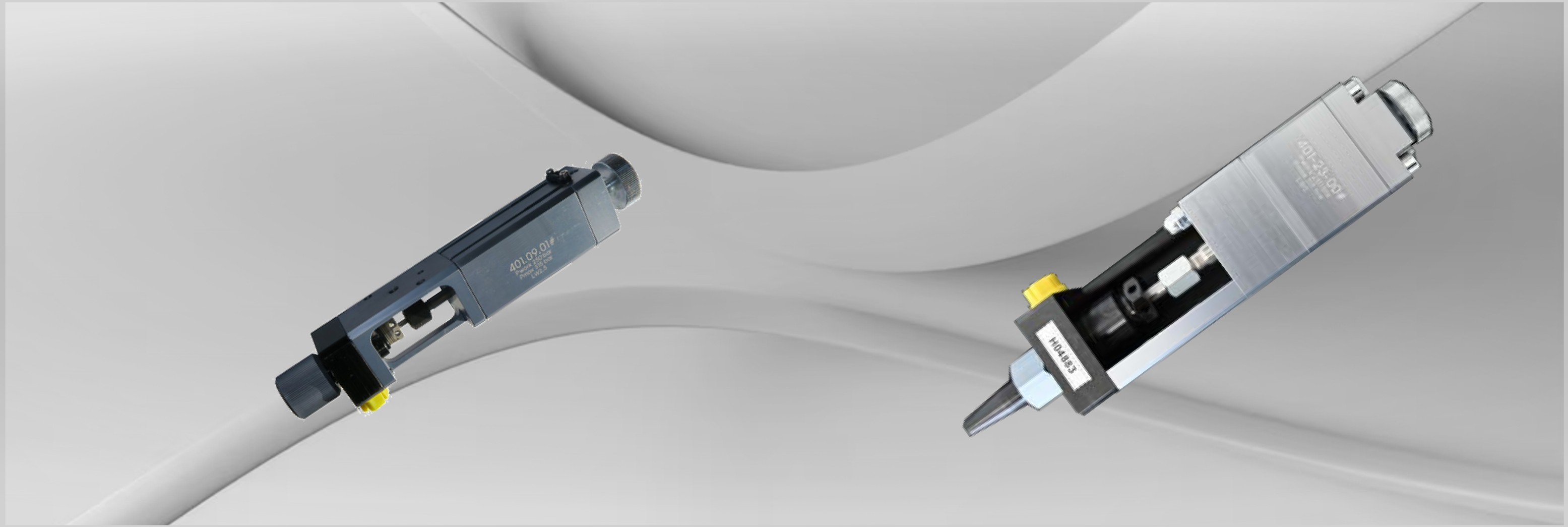
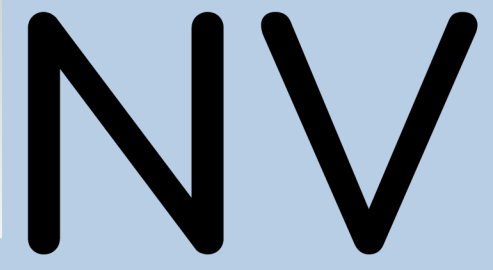
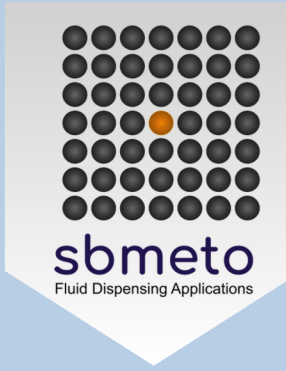


TPNV Series

TIME PRESSURE NEEDLE VALVE

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



DESCRIPTION

Time Pressure Needle Valve

Sunbelt-MTE needle dispensing valves are designed for processing a wide range of materials, from low to high viscosity. The valve's flow rate is controlled by adjusting the needle position relative to its seat, which changes the outlet orifice size. When fully closed, the needle seals tightly against its seat, while an adjustable packing set at the throat provides an additional seal.

The valve is composed of two distinct sections: a material section and a pneumatic section. This design prevents any leaking material from entering the actuating air cylinder, which could otherwise cause the valve to malfunction. For added precision, the valve can also be equipped with an electrical control to regulate needle movement.

FEATURES

Product Features:

- Narrow material passageway
- High opening and closing force
- Special adjustable packing
- Double-acting pneumatic actuation
- Suitable for high-pressure applications
- Needle-locking mechanism
-

Available Options:

- 5/2 pneumatic valve or solenoid valve plate
- Manual handle with trigger or foot pedal for pneumatic or electric operation
- Electric control
- Heating function

TECHNICAL DATA SHEET



TIME PRESSURE NEEDLE VALVE
 Improving dispensing application with sunbelt-mte **TPNV Series**


TECHNICAL DATA	TPNV-S1	TPNV-S2	TPNV-S3	TPNV-S4	TPNV-S5
Order Number	00003774	00003020	00003391	00004226	00004204
Model / Type	DL4010618	DL4502000	DL4502003	DL4190100	DL4190300
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