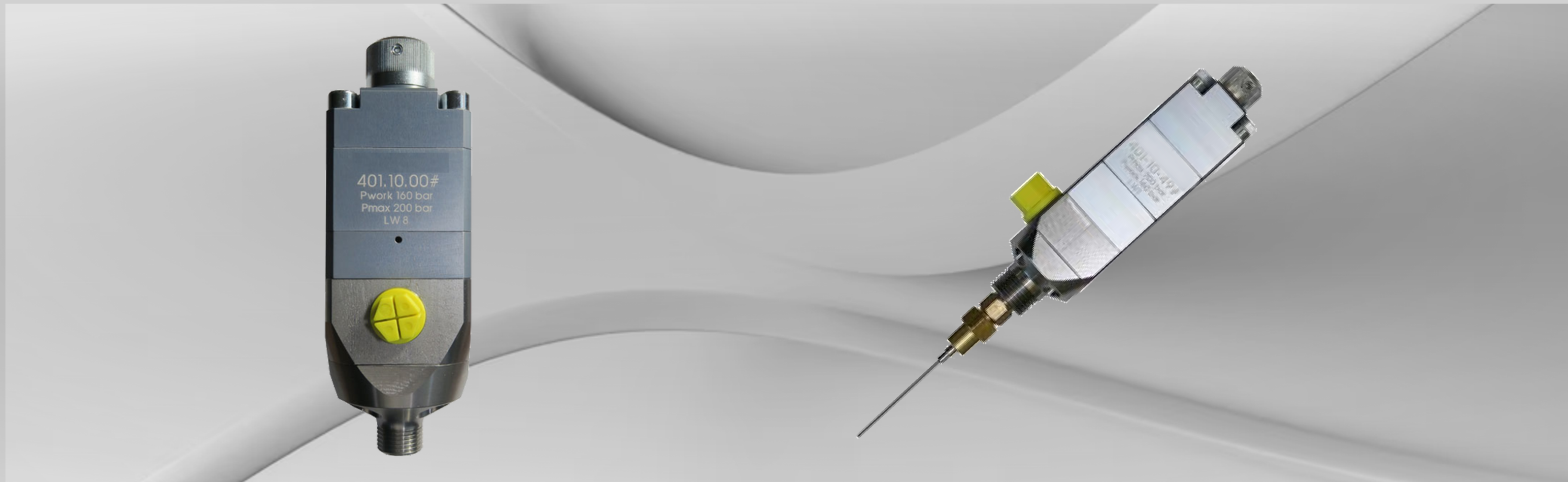


# TPDV-H Series

TIME PRESSURE DIAPHRAGM VALVE for HIGH-PRESSURE  
Improving dispensing application with sunbelt-mte **TPDV-H Series**



# CV



## DESCRIPTION

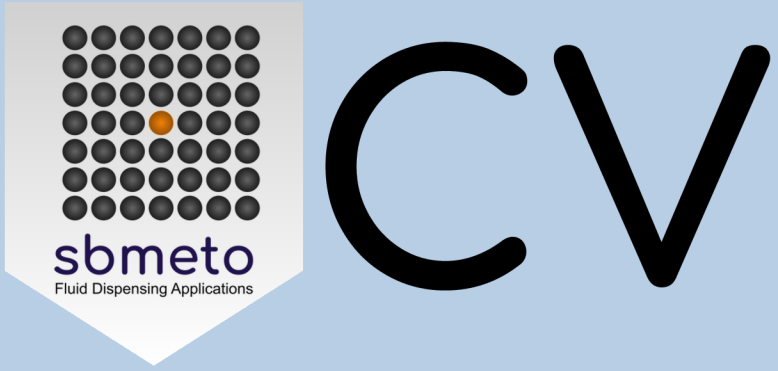
Sunbelt-mechatronics diaphragm dispensing valves are designed to handle a wide range of media, from low to high viscosity, including reactive, abrasive, and chemically aggressive fluids. These low-maintenance valves employ a flexible NBR diaphragm with a PTFE coating to effectively seal the fluid passageways from the pneumatically actuated section, ensuring only the media comes into contact with the wetted parts, which are constructed from stainless steel.

The adjustable snuff-back effect provides precise control over material dispensing. The valve seat and needle are crafted from hard carbide steel, enhancing durability and extending the valve's lifespan.

## PRODUCT FEATURES:

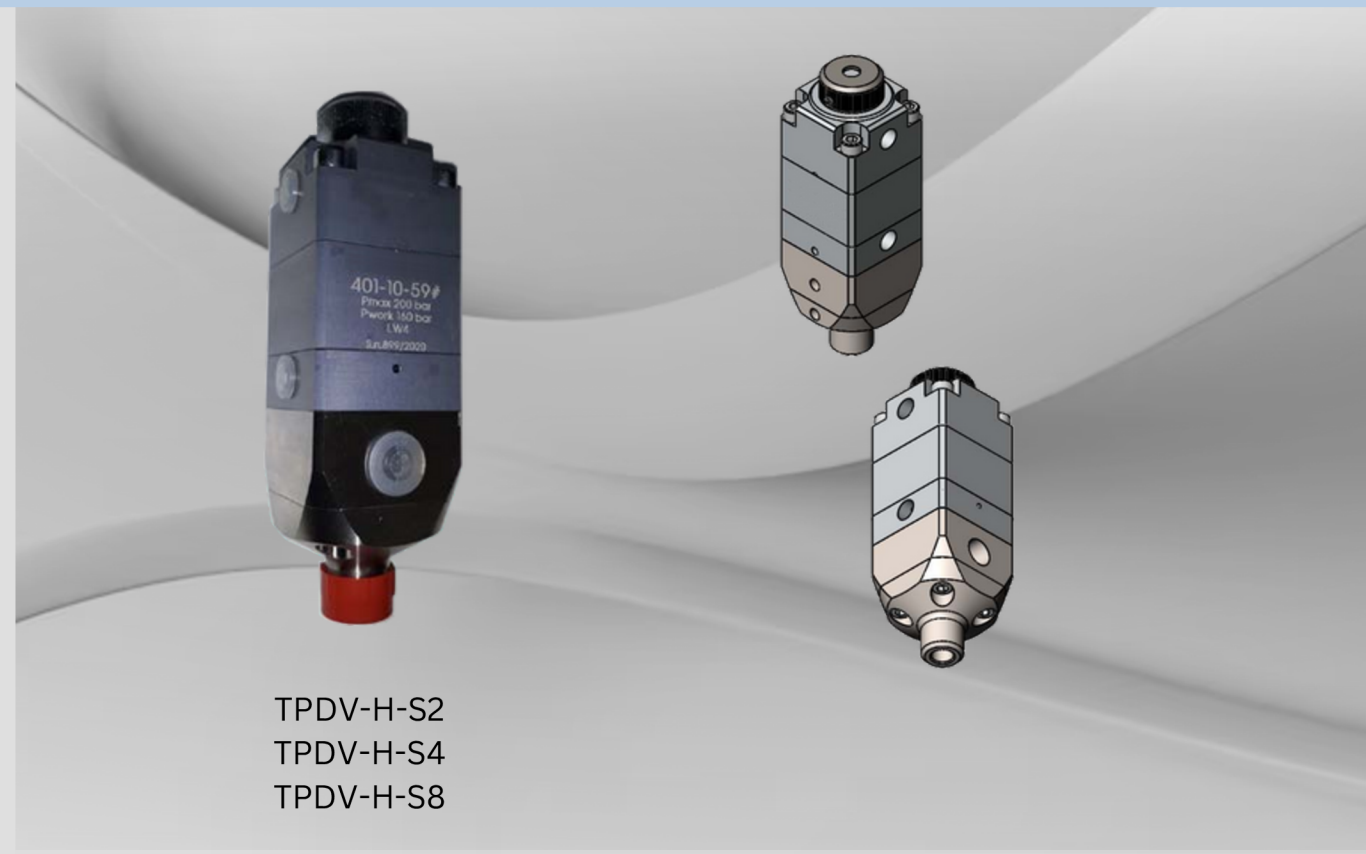
- Compact and Maintainable Design
- Durable Stainless Steel Wetted Parts
- Precise Control with Adjustable Draw-back Effect
- Long-Lasting Tungsten Carbide Valve Seat

# TECHNICAL DATA SHEET



ONE-SHOT CHAMBER VALVE  
 Improving dispensing application with sunbelt-mte **OSCV Series**

| TECHNICAL DATA          | TPDV-H-S2                  | TPDV-H-S4                  | TPDV-H-S8                  |
|-------------------------|----------------------------|----------------------------|----------------------------|
| Order Number            | 00004223                   | 00004223                   | 00004224                   |
| Model / Type            | TNDV-S2                    | TNDV-S4                    | TNDV-S8                    |
| CAD Ref                 | 401-00-49                  | 401-10-59                  | 401-10-90                  |
| Orifice size            |                            |                            |                            |
| mm:                     | 2.0                        | 4.0                        | 8                          |
| in:                     | 0.078                      | 0.157                      | 0.314                      |
| Construction Type       | Time Pressure              | Time Pressure              | Time Pressure              |
| Displacement            | Diaphragm Valve            | Diaphragm Valve            | Diaphragm Valve            |
| Material pressure range |                            |                            |                            |
| bar                     | 160 to 200                 | 160 to 200                 | 160 to 200                 |
| [psi]                   | [2320 to 2900]             | [2320 to 2900]             | [2320 to 2900]             |
| Inlet connection        | G1/8" BSPP                 | G1/4" BSPP                 | G3/8" BSPP                 |
| Outlet connection M/F   | G1/8" BSPPF<br>G3/8" BSPPM | G1/8" BSPPF<br>G3/8" BSPPM | G1/4" BSPPF<br>G1/2" BSPPM |



TPDV-H-S2  
 TPDV-H-S4  
 TPDV-H-S8

**UPGRADE:**

- 5/2 Pneumatic Valve with Mounting Plate
- Hand Grip or Foot Pedal Operation (Pneumatic or Electric)
- High-Temperature Viton Diaphragm Seal (for temperatures exceeding 80°C)
- Heating Capability

**ACCESSORIES**

- **NEEDLE**
  - stainless steel
  - Series Type D32
- **MPR (MATERIAL PRESSURE REGULATOR)**
  - For lubricants with check valve
  - For adhesives and Sealants with diaphragm