



# TVII & TVII XL



TVII

## THOMPSON VALVE II

The Schmidt® Thompson Valve II (TVII™) is a normally closed, self-sealing abrasive metering valve with quick, smooth response to either pneumatic or electric deadman controls. Its fail-safe design shuts off abrasive flow to the nozzle and seals the tank simultaneously. It is the latest valve in the Thompson Valve line, which revolutionized abrasive metering and control. No other valve offers the smooth, fast, and reliable performance of the TVII or its durability and ease of maintenance. Schmidt valves are proven to use significantly less abrasive material and are engineered to maximize blasting productivity and reduce downtime.

### FEATURES

- Bolt-on cap provides easy access to the piston and seal
- Anti-vibration disc holds knob in place during transit
- Triple plunger seals keep media from entering the piston chamber, extending valve life
- Broad range of sleeves available for particular abrasives and applications
- Seat placed in body allows for easy removal during servicing
- Twin breather vents under the knob prevent dust from entering the piston chamber
- Spring is designed for long life
- O-ring on sleeve prevents dust migration
- Clean-out port directly under the inlet provides easy removal of dirt or debris

## THOMPSON VALVE II XL

The Thompson Valve II Extended Life (TVII™ XL™) is the latest innovation in the industry-leading Thompson Valve line. It is engineered for maximum durability and longevity in the harshest applications, performing best with the most aggressive abrasives, such as aluminum oxide and steel grit. No other valve offers the performance and durability of the TVII XL. Tests indicate that service life can be extended up to 5 times.

For dramatically reduced downtime while maintaining the Schmidt standard of precision abrasive metering, the Thompson Valve line is renowned for this.

In addition to the life-extending design upgrades, the valve's ergonomic improvements make the TVII XL the most advanced and easiest to maintain metering valve available.

### FEATURES

- Improved Virtual Position Indicator (VPI™) provides a visual representation of abrasive flow setting; metering is simple to set and maintain
- Control system signal ports relocated for easy access when the valve is installed
- Heavy-duty castings with improved life in high-wear areas
- Redesigned piston improves spring stability, providing quick and smooth actuation and extended spring life
- Upgraded clean-out plug has straight threads and face seal for an air-tight seal; no pipe tape necessary
- Upgraded plunger seal design reduces friction for quick response
- Advanced sleeve design reliably prevents dust migration and mechanical binds, significantly extending life
- Unique sleeve design allows easy removal of sleeve and plunger for inspection and replacement



TVII XL



# COMPARE THE TV™ FAMILY



Valve Features	Schmidt Thompson Valve	Schmidt Thompson Valve II	TVII Benefits
Body and cylinder	One-piece. Anodized finish.	Modular design. High quality casting with hard coat anodized finished	Body separate from cylinder provides easier removal of sleeve, plunger seals and seat during service. Power coating can hide manufacturing defects.
Seals	One seal	Three seals. Performance-tested material	Triple plunger seals minimize media entering the piston chamber, reducing plunger drag. Seal material offers superior durability and longer life.
Sleeve and Plunger	Many options. Many with performance-tested materials. Manufactured to original Schmidt specifications and drawings	Extensive sleeve orifice offerings for more precise metering. Materials performance-tested and precision manufactured	More sleeve choices for different abrasives and applications, including large bore. The formulated tungsten carbide sleeve is designed to be stronger and less brittle. TV2 TC sleeves combine the protection and toughness of stainless steel with the abrasion and wear resistance of high-grade tungsten carbide. Precision machining provides better performance and longer life.
Venting	One breather vent	Twin breather vents, 5 micron	Better at minimizing dust migration to the piston chamber, protecting components within the cylinder chamber, extending valve life
Virtual Position Indicator (VPI)	No	Yes	Simple to set and maintain a consistent media flow rate. See it, set it
Cleanout	Must remove valve from vessel	Full 1" clean-out port	Positioned directly under inlet for easy removal of debris without removing valve

## TVII SPECIFICATIONS

**Sleeve:** Available in tungsten carbide, tungsten carbide slotted, urethane, stainless steel or tungsten carbide multiport, large bore

**Piping Sizes:** 1" MNPT, 1 1/4" MNPT, 1 1/2" MNPT, 2" MNPT

**Weight:** 11 lbs.  
**Dimensions:** 10.5" x 5" x 9"

**Contact your local Schmidt distributor or call Axiom below for distributor information.**