



**SCHMIDT**



TVII



TVII XL

**+603-7865-6524**  
**SCHMIDTABRASIVEBLASTING.COM**

# TVII & TVII XL

The airblast industry's leading performance valve.  
Incomparable quality, durability and operation

A product of Axiom Manufacturing, Inc.

## 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 at the same instant. 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 and are engineered to maximize blasting productivity and reduce downtime.

### FEATURES

- Bolt-on cap provides easy access to piston and seal
- Anti-vibration disc holds knob in place during transit
- Triple plunger seals keep media from entering piston chamber, extends 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 piston chamber
- Spring designed for long life
- O-ring on sleeve prevents dust migration
- Clean-out port directly under 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 life in the harshest applications, performing best when used 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 is extended up to five times for dramatically minimized downtime, all while maintaining the Schmidt standard of precision abrasive metering the Thompson Valve line is renowned for.

In addition to the life-extending design upgrades, the valve's ergonomic improvements make the TVII XL the most advanced and most easily maintained 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 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



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## 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"

## VIDEOS

See videos on the Thompson® Valve Family on our website or on YouTube.

# COMPARE THE TV™ FAMILY

Comparing the TVII™ to the others in the Thompson® Valve Family

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Valve Features	Schmidt Thompson Valve	Schmidt Thompson Valve II	TVII Benefits
Body and cylinder	One-piece. Anodized finish.	<b>Modular design. High quality casting with hard coat anodized finish</b>	Body separate from cylinder provides easier removal of sleeve, plunger seals and seat during service. Powder coating can hide manufacturing defects
Seals	One seal	<b>Three seals. Performance-tested material</b>	Triple plunger seals minimize media entering piston chamber, reduce drag on plunger. Seal material offers superior durability and longer life.
Sleeve and Plunger	Many options. Made with performance-tested materials. Manufactured to original Schmidt specifications and drawings	<b>Extensive sleeve orifice offerings for more precise metering. Materials performance-tested and precision manufactured.</b>	More sleeve choices for different abrasives and applications, including large bore. 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	<b>Twin breather vents, 5 micron</b>	Better at minimizing dust migration to the piston chamber, protecting components within the cylinder chamber, extending valve life
Virtual Position Indicator (VPI)	No	<b>Yes</b>	Simple to set and maintain consistent media flow rate. See it, set it
Cleanout	Must remove valve from vessel	<b>Full 1" clean-out port</b>	Positioned directly under inlet for easy removal of debris without removing valve

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