













METERING VALVES VMT Series

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Features

Pressure rating up to

VMTS series - 2000psig (137bar)

VMTL & VMTM series - 1000psig (69bar)

Temperature rating

from -23°C(-10°F) to 204°C (400°F) with standard Viton o-ring

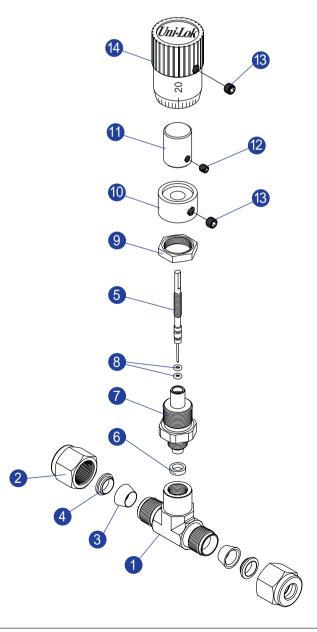
from -23°C(-10°F) to 148°C (300°F) with Buna-N o-ring

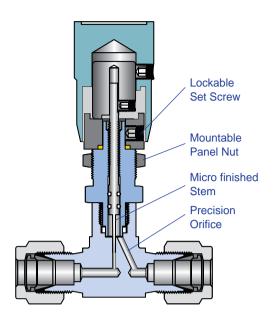
Compact designed body

Panel mounting for easy installation

Fine orifice and close thread tolerances offers accurate control

Various selection of handles





Materials of Construction

No.	Description	Materials
1	Body	316SS
2	Nut	316SS
3	Back Ferrule	316SS
4	Front Ferrule	316SS
5	Stem	316SS
6	Sealing Seal	PTFE
7	Bonnet	316SS
8	Stem Seal	Viton
9	Panel Nut	304SS
10	Vernier Scale	Aluminum
11	Handle Gland	Brass
12	Handle Gland Screw	304SS
13	Handle Set Screw	304SS
14	Handle	Aluminum

Specification

Valve Series	Orifice (mm)	Stem Taper	Shutoff Service		erature ting		ssure ting
551105	(''''''	incl. Angle	0017100	°C	°F	psig	bar
VMTS	0.81	1°	No			2000	137
VMTM	1.42	3°	Yes	-23~204	-10~400	2000	137
VMTL	3.25	5°	Yes			1000	69

Application

Sampling and analyzing systems, accurate and fine metering applications

Cleaning

Uni-Lok valves are free from machine oils, loose particles and grease throughout the close cleaning process.

The special cleaning for high purity application is available upon request.

How To Order

Uni-Lok VMT series metering valves are ordered by part number as shown as below.

Testing

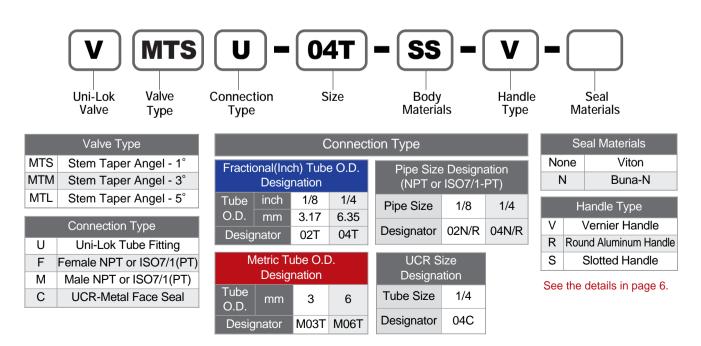
Every valve is 100% factory tested with air and nitrogen at 1000psig(69bar) for leakage at the seat and packing. Each test is performed to a maximum allowable leak rate of 0.1scc/min.

VMTL series is tested at 100psig(7bar) differential pressure.

Important Notification

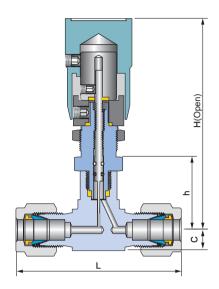
Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.

Example: The following part number, **VMTSU-04T-SS-V** is designated for VMTS series metering valve with both 1/4'' Uni-Lok tube fittings, 316SS, vernier handle.



VMTS series

(Stem Angle 1°, Orifice 0.81mm)

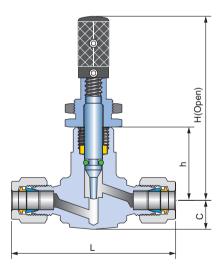


Ordering Information & Dimensions

Part Number		End Connection			CV	Dimensions (mm)				Panel
		Inlet	Outlet	Orifice	(Max)	L	С	h	H (Open)	Hole Drill Size
	U-02T-	1/8" Uni-Lok 1/4" Uni-Lok 3mm Uni-Lok				48.3	6.8	22.9	65.0	11.5
	U-04T-					51.8				
VMTS	U-M03T-			0.81	0.005	48.3				
	U-M06T-	6mm Uni-Lok				51.8				
	C-04M	1/4" Ma	le UCR			52.3				

VMTM series

(Stem Angle 3°, Orifice 1.42mm)



Ordering Information & Dimensions

		End Connection			CV	Dimensions (mm)				Panel Hole
Part	Number	Inlet	Outlet	Orifice	(Max)	L	С	h	H (Open)	Drill Size
	U-02T-	1/8" Uni-Lok 1/4" Uni-Lok 3mm Uni-Lok 6mm Uni-Lok				52.3				
	U-04T-					58.3			67.0	15.0
	U-M03T-					52.3		.7 26.0		
VMTM	U-M06T-			1.42	0.033	58.3	9.7			
	F-02N-	1/8" Female NPT				42.0				
	M-02N-	1/8" Male NPT				41.2				
	M-04N-	1/4" Male NPT				50.0				

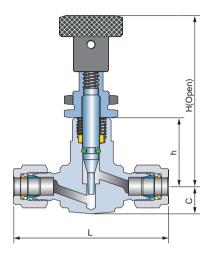
ISO7/1 Tapered Threads (PT) are available for all fractional sizes of VMT series valves. Add "R" as a suffix instead of "N".

Dimensions are for reference only and are subject to change without prior notice.



VMTL series

(Stem Angle 5°, Orifice 3.25mm)



Ordering Information & Dimensions

			End Connection		CV	Dimensions (mm)				Panel Hole
Part Number		Inlet	Outlet	Orifice	(Max)	L	С	h	H (Open)	Drill Size
	U-04T-	1/4" U	ni-Lok			58.3				
VMTL	U-06T-	3/8" U	3/8" Uni-Lok		0.455	58.6	9.7	26.0	67.0	15.0
VIVITL	U-M06T-	6mm Uni-Lok		3.25	0.155	58.3				
	M-04N-	1/4" Ma	ale NPT			50.0				

ISO7/1 Tapered Threads (PT) are available for all fractional sizes of VMT series valves. Add "R" as a suffix instead of "N".

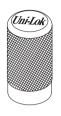
Handle Types

Handle materials

Vernier and Slotted handles - Aluminum with anodized color

Round handles - Nylon







Vernier Handle Enhance accurate flow adjustments

Slotted Handle Keep flow setting adjustments with set screw

Round Handle Make flow adjustments easily

Handle Options

Different types of aluminum handles are available depending on valve series.

Vavle	Handle Types					
Series	Vernier	Slotted	Round			
VMTS	0	0	Х			
VMTM	0	0	X			
VMTL	0	X	0			

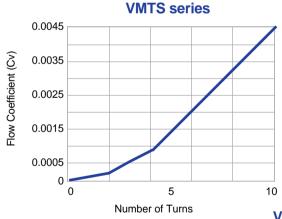
Standard color for all handles is black. Other colored are available upon request as option only with vernier and slotted handles.

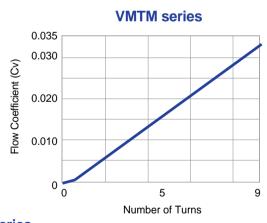
To order, add color designator to the end of handle option.

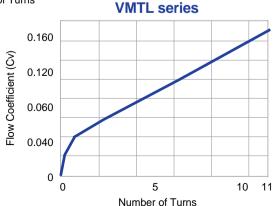
Example: -VG shown as gold vernier handle

Color	Designator
Gold	G
Silver	S

Number of Handle Turns - Flow Coefficient (Cv)







Uni-Lok Line up

Instrumentation **Fittings**







- · Tube Fittings
- · Precision Pipe Fittings
- PTFE Fittings
- · Fusible Connectors

- · Hose & Push-On Connectors · Dielectric Fittings

Valves







- · VB1 series
- Precision & Clean Ball Valves
- · VB2 series
- **Swing-Out Ball Valves**
- VB3 series
- **Instrumentation Ball Valves**
- · VB6B series
- **High Pressure Bar Stock Ball Valves**
- · VB6F series
- **High Pressure Forged Ball Valves**
- · VB6T series
- **Trunnion Ball Valves**
- · VP series
- **Plug Valves**
- · VN5 series
- **Integral Bonnet Forged Needle Valves**
- VN6 series
- **High Pressure Bar Stock Needle Valves**
- · VU6 series
- **Union Bonnet Valves Metering Valves**
- VMT series
- · VM series
- **Instrumentation Manifolds Valves**
- · VG series
- Gauge & Gauge Root Valves
- · VL series
- **Bleed Valves**
- · VD series
- **Double Block and Bleed Valves**
- · VC series VR series
- **General & High Pressure Relief Valves** Low & High Pressure Relief Valves
- · VE series
- **Industrial Excess Flow Valves**
- · VF series
- T & In-Line Filters
- · VPR series
- **Pressure Reducing Valves**
- · VBR series
- **Back Pressure Regulators**

Others

- · Seamless & Welded Tubing
- Condensate Pots

UHP(Ultra High Purity)

Fittings







- · Weld & Metal Face Seal Fittings
 - · Cylinder Connectors
- · Pipe &Tube Fittings
- · Flanges

Valves







- · VCD series
- **Diaphragm Valves Bellows Valves**
- · VCB series · VCC series
- Welded Check Valves

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