

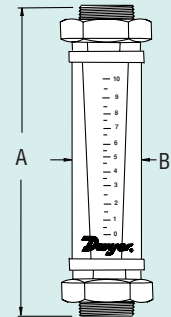


Series  
VAT

# Variable Area Teflon® Flowmeter

In-Line, ±5% Accuracy, Chemically Inert

FLOW



### Dimensions

Connection	A	B
1/4"	5-11/16 (144)	1-1/4" (31.8)
3/8"	5-11/16 (144)	1-1/4" (31.8)
1/2"	10-1/2" (267)	2" (50.8)
3/4"	10-1/2" (267)	2" (50.8)

### POPULAR MODELS

Model Number		LOW RANGE	
Valve	No Valve	Connections	Flow Rate ml/min (gph)
VAT-311	VAT-301	1/4" female NPT	75 (1.19)
VAT-312	VAT-302	1/4" female NPT	250 (3.91)
VAT-313	VAT-303	1/4" female NPT	400 (6.34)
VAT-314	VAT-304	1/4" female NPT	500 (7.92)
VAT-315	VAT-305	1/4" female NPT	1000 (15.85)
VAT-316	VAT-306	3/8" female NPT	2000 (31.69)
VAT-317	VAT-307	3/8" female NPT	2500 (39.62)
VAT-318	VAT-308	3/8" female NPT	3000 (47.54)
VAT-319	VAT-309	3/8" female NPT	5000 (79.23)
Model Number		HIGH RANGE	
Valve	No Valve	Connections	Flow Rate L/min (gpm)
VAT-6110	VAT-6010	1/2" female NPT	13 (3.43)
VAT-6111	VAT-6011	1/2" female NPT	20 (5.28)
VAT-6112	VAT-6012	3/4" female NPT	30 (7.93)
VAT-6113	VAT-6013	3/4" female NPT	40 (1.57)
VAT-6114	VAT-6014	3/4" female NPT	45 (11.89)

Constructed entirely of Teflon®, the Series VAT Flowmeters are ideal for high purity or corrosive liquid applications. Flowmeters feature a 0-10 scale for flow indication. Each unit is individually leak tested to a leak integrity rating of  $1 \times 10^{-7}$  secs Helium or better. The Series VAT are designed for in-line mounting and include a removable protective shield.

### SPECIFICATIONS

**Service:** Compatible liquids.

#### Wetted Materials:

Flowtube: Teflon® PFA.

Float and End Fittings: Teflon® PTFE.

Guide Rods: PCTFE.

**Temperature Limit:** 250°F (121°C).

**Pressure Limit:** 100 psig (6.9 bar).

**Accuracy:** ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 atm absolute).

**Process Connections:** See chart.

**Leak Integrity:**  $1 \times 10^{-7}$  sccs of Helium.

**Scale:** 0 to 10 markings.

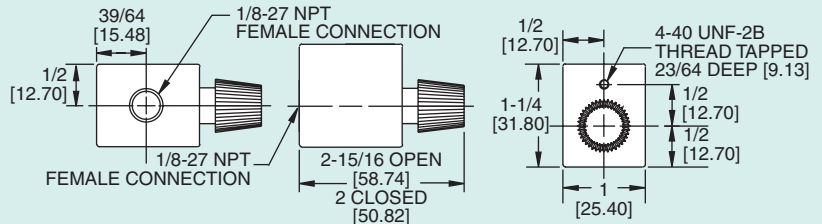
**Mounting:** Vertical, In-Line.



Series  
NV

# Needle Valve

Economical, Pressures Up to 500 psig, 90° Flow Pattern



**Series NV Needle Valves** are an economical valve for regulating pressures up to 500 psig (34.5 bar). The Series NV is suitable for air, water, oil and other compatible fluids, and can be panel mounted to accommodate a 90° flow pattern. The valves can be used independently or as a remote valve for Dwyer flowmeters.

### SPECIFICATIONS

**Pressure Limit:** 500 psig (34.5 bar).

**Temperature Limit:** 200°F (93.3°C).

**Orifice Size:** 0.120 in (3.05 mm).

**Flow Coefficient:** 0.36.

**Max Flow:** 1.75 gpm water (6.6 LPM), 500 scfh air (14,150 LPH).

**Weight:** 0.43 lb (195 g).

**Connection Size:** 1/8 – 27 female NPT.

### STOCKED MODELS

Model No.	Description
NV-1B	Brass Block Valve
NV-1S	303 SST Block Valve