



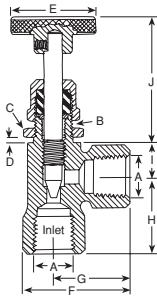
NEEDLE VALVES

Mini Line Series

Ideal for test bench and control panel applications. Designed for use with air, oil, water, steam, vacuum service and most chemicals.

Features:

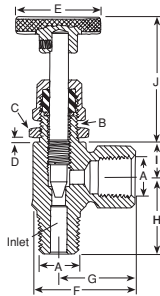
- Compact design provides easy installation.
- Fine stem threading and long taper allow precise metering and leak-free shut-off.
- Internal stop prevents the stem from being accidentally unscrewed from the body.
- Rugged forged brass bodies withstand higher pressures.
- Valves come equipped for panel mounting.



Ordering Information

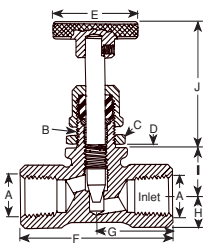
NVA

Vescor Part Number	A NPT	B Thread Size UNS-2B	C Hex Size In.	D Max (in.)	E (In.)	F (In.)	G (In.)	H (In.)	I (In.)	J Open (In.)	J Closed (In.)	CV
NVA250B	1/4	1/2-27	1 1/16	7/32	1 1/4	1 13/32	1	1	7/16	2 5/32	1 19/32	.7



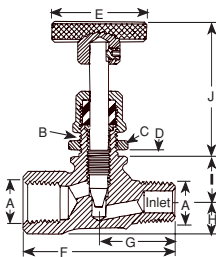
MFA

Vescor Part Number	A NPT	B Thread Size UNS-2B	C Hex Size (In.)	D Max (in.)	E (In.)	F (In.)	G (In.)	H (In.)	I (In.)	J Open (In.)	J Closed (In.)	CV
MFA250B	1/4	1/2-27	1 1/16	7/32	1 1/4	1 11/32	1	1	7/16	2 5/32	1 19/32	.7



NVG

Vescor Part Number	A NPT	B Thread Size UNS-2B	C Hex Size (In.)	D Max (in.)	E (In.)	F (In.)	G (In.)	H (In.)	I (In.)	J Open (In.)	J Closed (In.)	CV
NVG250B	1/4	1/2-27	1 1/16	7/32	1 1/4	1 11/32	1	1	7/16	2 5/32	1 19/32	.7



MFG

Vescor Part Number	A NPT	B Thread Size UNS-2B	C Hex Size (In.)	D Max (in.)	E (In.)	F (In.)	G (In.)	H (In.)	I (In.)	J Open (In.)	J Closed (In.)	CV
MFG250BF	1/4	1/2-27	1 1/16	7/32	1 1/4	2	1	13/32	7/16	2 5/32	1 25/32	.5



NEEDLE VALVES

Mini Line Series

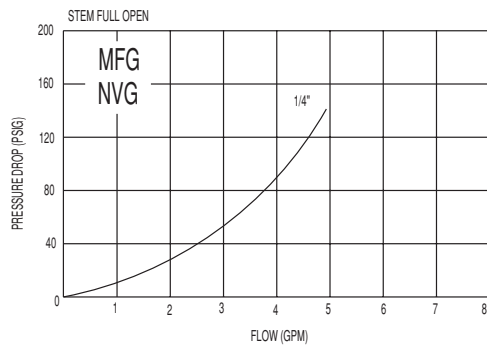
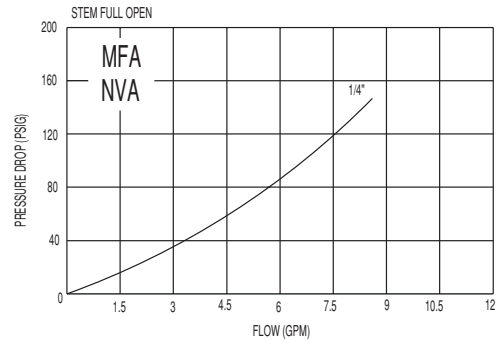
Specifications:

Maximum Operating Pressure	5000 PSIG Steel 2000 PSIG Air
Minimum Burst Pressure	8000 PSIG
Temperature Range	-40°F to +500°F
Orifice Diameter	.182"
Stem Taper	15°
Stem Pitch	32 Threads/Inch
CV Factor	See Ordering Information

Materials:

Body	ASTM B283 Brass
Stem	Brass
Knob	Brass
Bonnet Nut	Brass
Panel Mount Nut	Brass
Set Screw	Steel
Stem Packing	Teflon with Brass Gland

Performance



2000 Series

Ideal for applications which require fine metering and shut-off. Designed for use with air, oil, water, steam, liquid fuels and most chemicals.



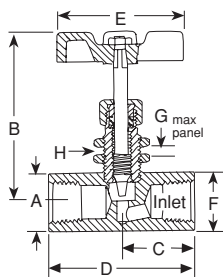
Features:

- Heavy duty brazed construction for added strength and safety up to 10,000 psi.
- Precision machined stems and valve bodies provide perfect seat alignment for leak-free shut-off.
- Carbon steel valves are zinc plated and sealed with black chromate for double corrosion protection.

Ordering Information:

FFG

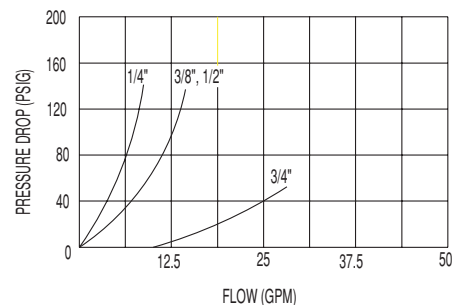
Vescor Part Number	Body Material	A NPT Female	B Max (In.)	C (In.)	D (In.)	E (In.)	F Square (In.)	G (In.)	H Dia. (In.)	Orifice Dia. (In.)	CV
FFG2002T	Carbon Steel	1/4	3 1/2	1 1/2	2 1/16	2 1/2	7/8	3/8	5/8	7/32	.66
FFG2003T	Carbon Steel	3/8	3 3/8	1 7/16	2 3/4	2 1/2	1-1/8	3/8	3/4	7/32	.70
FFG2004T	Carbon Steel	1/2	3 3/8	1 7/16	2 3/4	2 1/2	1 1/8	3/8	3/4	7/32	.70
FFG2006TA	Carbon Steel	3/4	5 1/16	1 13/16	3 3/8	4 1/4	1 1/2	7/8	1 1/2	3/16	3.90



Specifications:

Maximum Operating Pressure	10,000 PSIG Steel 2000 PSIG Air
Minimum Burst Pressure	20,000 PSIG
Temperature Range	-40°F to +500°F
Stem Taper	10.5° (1/4, 3/8, 1/2" Size) 15° (3/4 Size)
Stem Pitch	16 Threads/Inch (1/4, 3/8, 1/2" Size) 14 Threads/Inch (3/4 Size)
CV Factor	See Ordering Information

Performance



Panel Mounting Kits

Valve Size	Kit Number
1/4"	2002S
3/8 to 1/2"	2004S
3/4"	2005S

NOTE: WITH VESCORS' POLICY OF CONSTANTLY IMPROVING ITS PRODUCTS, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



NEEDLE VALVES

Tru Micro TMF Series with Color Bands

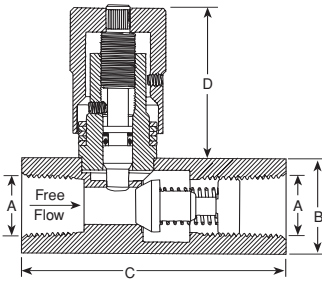
Designed for extremely precise control of hydraulic and pneumatic actuators. Provides metered flow in one direction and free flow in the reverse direction.



Features:

- Easy-to-read color bands and micrometer knob for exact flow settings.
- Re-set repeatability withing 1%.
- Precision-machined Double-Step stem with fine threading provides accurate control, even at extremely low flows.
- Rugged, all metal construction - no plastic parts.
- Bleed holes in piston provide a cushion to soften closing impact and extend valve life.
- Brazed construction to withstand high pressure.
- Set screw provided to secure valve setting.
- Steel valves are zinc-plated AND sealed with black chromate for double corrosion protection.

Ordering Information



Vescor Part Number	Body Material	Piston Seal	A NPT Female	B Square (In.)	C (In.)	D (In.) Max.	Orifice Diameter (In.)	CV Free-flow Direction	CV Controlled Flow Direction
TMF375S	Steel	Metal	3/8 NPT	1	2 3/4	1 23/32	7/32	2.95	.72
TMF500S	Steel	Metal	1/2 NPT	1 1/8	3 7/16	2 1/4	5/16	4.50	1.07
TMF750S	Steel	Metal	3/4 NPT	1 1/2	3 7/8	2 15/32	3/8	5.41	1.71

Specifications:

Maximum Operating Pressure	5000 PSIG Steel 2000 PSIG Brass
Temperature Range	-20°F to +400°F
Cracking Pressure-Check Valve	2 PSIG
Stem Taper	2° x 45° Double-Step
Stem Pitch	40 Threads/Inch
CV Factor	See Ordering Information

Materials:

Body	12L14 Steel, ASTM B 16 Brass
Piston	Stainless Steel
Piston Seal	Metal
Spring	Stainless Steel
Stem	Stainless Steel
Knob & Color Bands	Anodized Aluminum
Piston Retainer	Stainless Steel
Set Screw	Steel
Stem Packing	Viton O-ring with "Teflon" Backup

Performance

