



INDUSTRIAL FLUID POWER COMPONENTS  
AND SYSTEMS



## ***FFG & MFA SERIES***

### **Needle Valves**



*MFA-2002-T*



*FFG-2002-T*

### Specifications

- 1/4" thru 1" NPT ports
- 5000 psi maximum- carbon steel body
- Temperature Range: -40°F to +500°F
- CV Factor: .66 thru 5.22
- Zinc-plated for double corrosion protection
- Materials:**

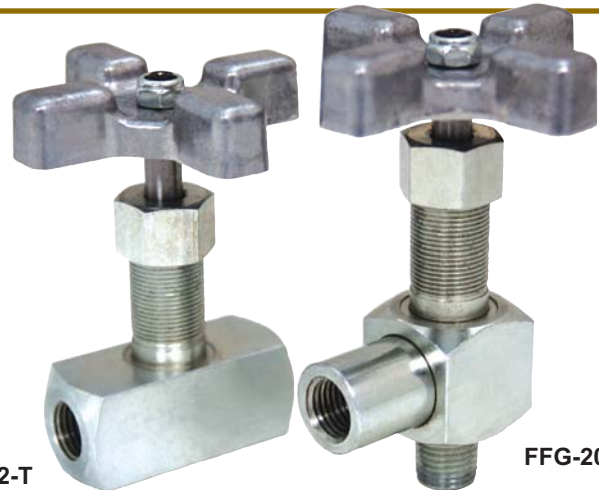
*Body* - 12L14 Carbon Steel

*Stem* - 303 Stainless Steel

*Bonnet Nut* - Carbon Steel

*Handle* - Aluminum

*Stem Packing* - Teflon

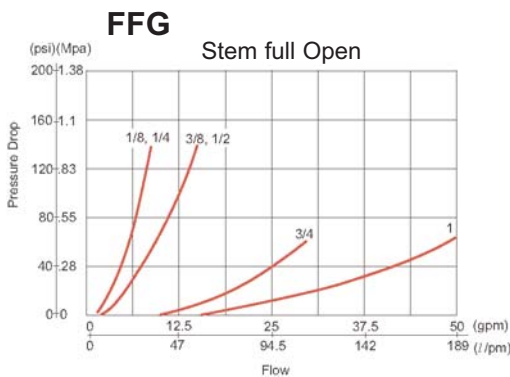


MFA-2002-T

FFG-2002-T

### Pressure Drop Curves

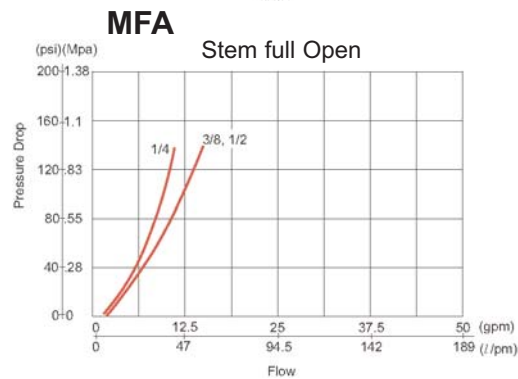
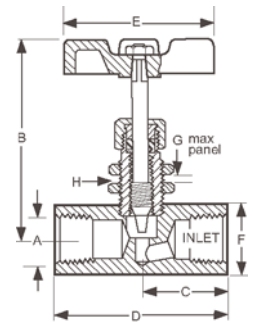
### Pressure Drop Curves



### FFG

A (NPT) Female	B (Max.)	C	D	E	F (Sq.)	G	H (Dia.)	Orifice (Dia.)	CV
1/8"	3 1/2"	3 1/32"	1 15/16"	2 1/2"	7/8"	3/8"	5/8"	7/32"	.66
1/4"		1 1/32"	2 1/16"						
3/8"	3 5/8"	1 7/16"	2 3/4"	1 1/8"	3/8"	3/4"	7/32"	.70	
1/2"		1 7/16"	2 3/4"						
3/4"	5 3/16"	1 13/16"	3 5/8"	4 1/4"	1 1/2"	7/8"	1 1/2"	9/16"	3.90
1"	5 5/16"	2 1/32"	4 1/16"	4 1/4"	2"	7/8"	1 1/2"	9/16"	5.22

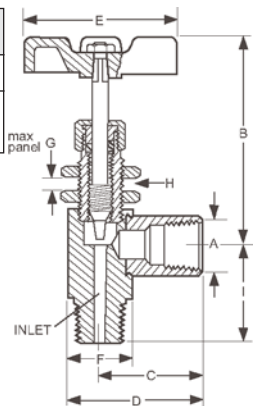
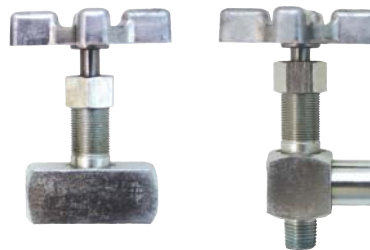
Units: Inches



### MFA

A (NPT) Female	B (Max.)	C	D	E	F (Sq.)	G	H (Dia.)	I	Orifice (Dia.)	CV
1/4"	3 1/2"	1 9/32"	1 25/32"	2 1/2"	1"	3/8"	5/8"	1 1/16"	7/32"	.92
3/8"	3 5/8"	1 17/32"	2 5/32"		1 1/4"					
1/2"	3 5/8"	1 17/32"	2 5/32"	1 1/4"	1 1/4"	3/8"	3/4"	1 3/4"	7/32"	1.10

Units: Inches



### Ordering Information

#### FFG - 2002 - T - A

Style	SIZE	Material	Handle Size
FFG = Needle Valve	2001 = 1/8"	T = Carbon Steel	omit = 2-1/2"
MFA = Right Angle Needle Valve	2002 = 1/4"		A = 4-1/4"
	2003 = 3/8"		
	2004 = 1/2"		
	2006 = 3/4"		
	2008 = 1"		