



### Features

Type needle valves with hard seat are designed for use on applications requiring complete isolation or throttling of the media. The conical metal tip (Stem Type CT) press fitted ensures perfect alignment for positive bubble tight shut-off. Available with end connections in sizes from 1/8" to 1" and a wide choice in connections of female screwed, male screwed, male to female screwed or socket weld.

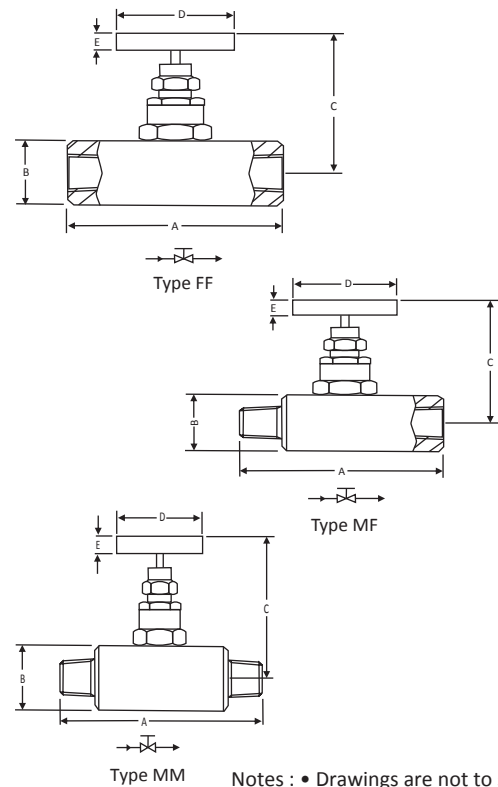
### Applications

- High pressure line shut off
- Instrument isolation
- Drain valve
- Liquid and vapor service

### Technical specifications

Design Pressure	: 6000 PSI
Max temp.	: 2400C
Material	: Stainless Steel
Stem	: (Type CT) Conical tip
Gland Packing	: PTFE
Stem packing area	: Burnished finish for Smooth valve operation.
Safety Feature	: Back seating for preventing stem blowout.

Size	Type	Length A	Width B	Height (open) Max., C	Handle D	Handle OD E
1/8"	FxF	50	22	55	40	10
	MxF	55	22	55	40	10
	MxM	60	22	55	40	10
1/4"	FxF	55	25	65	40	10
	MxF	65	25	65	40	10
	MxM	60	25	65	40	10
3/8"	FxF	55	25	65	40	10
	MxF	65	25	65	40	10
	MxM	65	25	65	40	10
1/2"	FxF	65	32	86.6	55	12.7
	MxF	75	32	86.6	55	12.7
	MxM	70	32	86.6	55	12.7
3/4"	FxF	70	38	88.6	55	12.7
	MxF	75	38	88.6	55	12.7
	MxM	80	38	86.6	55	12.7
1"	FxF	90	45	98	70	12
	MxF	105	45	98	70	12
	MxM	105	45	98	70	12



Notes : • Drawings are not to scale.  
• All Dimensions are in mm.

**How To Order** - Ordering Example: 6211IV: NV.SS.P.22.FF.N

Basic Model 6211IV: NV							
Code	Body Material	Code	Body Material	Code	Body Material	Code	Body Material
CS	Carbon Steel	SS	SS 316	SS3	SS 304	SSL	SS 316L
MON4	Monel 400	MON5	Monel 500	HTLC	Hastelloy C	BRS	Brass
Code	Stem Packing	Code	Stem Packing				
P	PTFE	G	Grafoil				
Code	Size = P x P1	Code	Size = P x P1	Code	Size = P x P1		
44	1/4" x 1/4"	38	3/8" x 3/8"	22	1/2" x 1/2"		
18	1/8" x 1/8"	34	3/4" x 3/4"	11	1" x 1"		
Code	Connections (inlet x outlet)						
FF	Female x Female	MF	Male & Female	MM	Male x Male	SW	Socket Weld
Code	Threads	Code	Threads	Code	Threads		
N	NPT	B	BSPP	BT	BSPT		
Code	Options						
CN	Compliance to NACE standard						
OS	For Oxygen service, valves are supplied cleaned, degreased and suitably packed.						
MTC	Material Test Certificates*						
GO	Hydrotest Certificate						

\*Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

Standard Valve Materials				
Valve	Body	Bonnet	Stem	Tip
Carbon Steel	CS A105	CS A105	SS 304	SS 304
Stainless Steel	SS 316	SS 316	SS 316	SS 316
Monel	Monel	Monel	Monel	Monel

**NOTE:**

High pressure valves for 10,000 and 20,000 psi pressure are available on request. Please consult factory.  
Other combination sizes available on request.