

### How to order : AVT, AVS

Body Material	Stem Packing	Size = P x P1	Connections	Threads
C = Carbon Steel	P = PTFE	24 = 1/4" x 1/4"	FF = Female x	N = NPT (ANSI B 1.20.1)
S = SS 316	G = Grafoil	33 = 3/8" x 3/8"	Female	P = BSPP (BS 2779,ISO 228/1)
S4 = SS 304		44 = 1/2" x 1/2"	MF = Male x Female	B = BSPT (BS 21, ISO 7/1)
SL = SS 316L			MM = Male x Male	
M4 = Monel 400			SW = Socket Weld	
M5 = Monel 500				
H = Hastelloy C				
B = Brass				

#### Options -

- IE : Handle circular.
- TF : Compliance to NACE standard MR-0175.
- SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.
- GH : Material test certificate
- GO : Hydro test certificate
- PV : IBR Approval

#### Example

To place an order simply refer to the codes in the table.

Valve Type : Body Material+ Stem Packing+ Size+ Connections+ Threads + Options

AVT + S + P + 44 + MF + N = AVT - S - P - 44 - MF - N - Options

#### Note -

The weld prepared types are available with a male-or-female plain end - suitable for socket weld, or male butt weld end. Always specify pipe schedule and further requirements when ordering valves for welded or Flange connections. Panel mounting option for installation in racks and panels.

### 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

## AVS

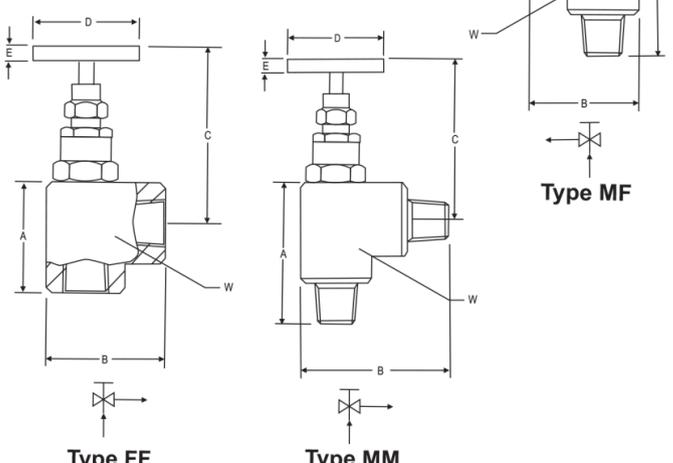
Type angle pattern needle valve designed for use in on general applications requiring complete isolation or throttling of the media. Ideal for use on gas services and some liquid applications. Produce as standard angle body at 90 degrees. Angle body 45 degrees optional. Specially designed soft Delrin needle tip (type DS) rolled in to the stem assembly in perfect location for positive bubble tight shut-off. Available with end connections in sizes from 1/4" to 1/2" and a wide choice of female screwed, male to female screwed or socket weld.

### Technical specifications

<b>Design Pressure</b>	: 6000 PSI
<b>Max temp.</b>	: 100°C
<b>Material</b>	: Stainless steel
<b>Stem</b>	: (Type DS) Delrin Soft Needle Tip rolled into the needle
<b>Gland Packing</b>	: PTFE
<b>Stem packing area</b>	: Burnished finish for smooth valve operation.
<b>Safety Feature</b>	: Back seating for Preventing stem blowout.

Size	Type	Body dimensions			Height (open) C	Handle D	Handle OD E
		A	B	W			
1/4"	FxF	32	32	28	63	40	10
	MxF	48	32	28	63	40	10
	MxM	48	48	28	63	40	10
3/8"	FxF	32	32	28	63	40	10
	MxF	48	32	28	63	40	10
	MxM	48	48	28	63	40	10
1/2"	FxF	50	50	32	95.5	50	12
	MxF	70	50	32	95.5	50	12
	MxM	70	70	32	95.5	50	12

All dimensions are in mm



### Applications

- Instrument line shut off.
- Instrument and gauge isolation.
- Drain valve.
- Specially designed for gas service.

Note : Other combination sizes available on request. Please contact us for more details.

## AVT

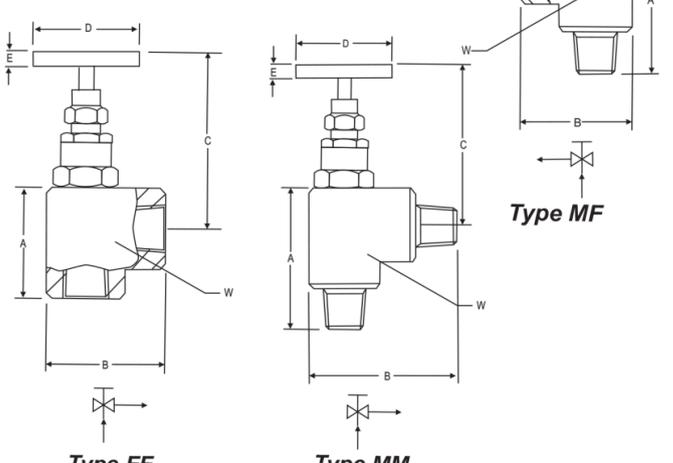
Type angle pattern needle valves designed for use on general applications requiring complete isolation and throttling of media. Produced as standard angle body at 90 degrees. Specially designed conical metal tip (type CT)ensures perfect alignment for positive bubble tight shut-off. Available with end connections in sizes from 1/4" to 1/2" and a wide choice of female screwed, male to female screwed or socket weld.

### Technical specifications

<b>Design Pressure</b>	: 6000 PSI
<b>Max temp.</b>	: 240°C
<b>Needle Tip</b>	: Stainless Steel
<b>Material</b>	: Stainless Steel
<b>Stem</b>	: (Type CT) Conical tip press fitted hard chrome plated
<b>Gland Packing</b>	: PTFE
<b>Stem packing area</b>	: Burnished finish for smooth valve operation.
<b>Safety Feature</b>	: Back seating for preventing stem blowout.

Size	Type	Body dimensions			Height (open) C	Handle D	Handle OD E
		A	B	W			
1/4"	FxF	32	32	28	62	40	10
	MxF	48	32	28	62	40	10
	MxM	48	48	28	62	40	10
3/8"	FxF	32	32	28	62	40	10
	MxF	48	32	28	62	40	10
	MxM	48	48	28	62	40	10
1/2"	FxF	50	50	32	86.6	50	12
	MxF	70	50	32	86.6	50	12
	MxM	70	70	32	86.6	50	12

All dimensions are in mm



### Applications

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

Note : Other combination sizes available on request. Please contact us for more details.