



Type angle pattern needle valve designed for use in general applications requiring complete isolation or throttling of the media. Ideal for use in 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.

Applications

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

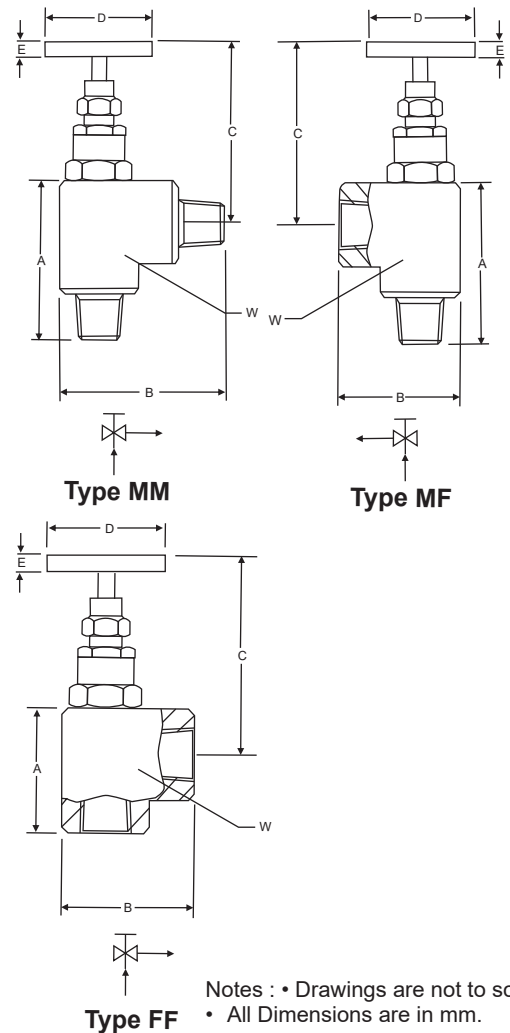
Technical Specifications

Design Pressure	: 6000 PSI
Max Temperature	: 100°C
Material	: Stainless steel
Stem	: (Type DS) Delrin Soft Needle Tip rolled into the needle
Gland Packing	: PTFE
Stem packing area	: Burnished finish for smooth valve operation.
Safety Feature	: 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	55	12.7
	MxF	70	50	32	95.5	55	12.7
	MxM	70	70	32	95.5	55	12.7

All dimensions are in mm

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



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

How To Order

Body Material	Stem Packing	Size = P x P1	Connections (inlet x outlet)	Threads
C = Carbon Steel	P = PTFE	24 = 1/4" x 1/4"	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	G = Grafoil	33 = 3/8" x 3/8"		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			MM = Male x Male	
M5 = Monel 500				
H = Hastelloy C				
B = Brass				

Options

TF : Compliance to NACE standard

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificate*

GO : Hydro test certificate

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

Example

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

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

AVS + S + P + 44 + MF + N = AVS . S . P . 44 . MF . N . Options

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 : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing .
Modifications may take place and materials specified may be replaced by others without prior notice.