NAVS

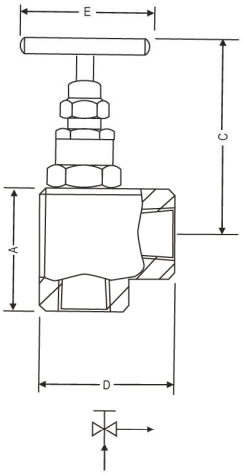
Type angle pattern needle valve designed for use in on general applications requiring complete isolation or throttling of the media. Ideal for use on gas services and some liquid applications. Produce as standard angle body at 90 degrees. Angle body 45 degrees optional. Specially designed soft Delrin 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" to1/2" and a wide choice of female screwed, male to female screwed or socket weld.

Pressure	: 400 bar
Max temp.	:100 °C
Material	:Stainless steel
Stem	: (Type DS) Delrin Soft Needle Tip rolled into the needle
Gland Packing	:PTFE
Stem packing area	:Burnished mirror finish for smooth valve operation.
Safety	:Back seating for Preventing stem blowout.

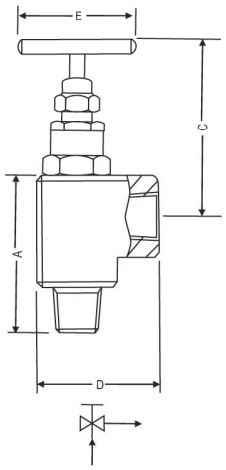


Size	Type	Body dimensions	Ht open	Ht closed	Handle
1/4"	FxF	32x32x25	63	60.5	40
	MxF	48x32x25	63	60.5	40
	MxM	48x48x25	63	60.5	40
3/8"	FxF	32x32x25	63	60.5	40
	MxF	48x32x25	63	60.5	40
	MxM	48x48x25	63	60.5	40
1/2"	FxF	50x50x32	95.5	91	50
	MxF	70x50x32	95.5	91	50
	MxM	70x70x32	95.5	91	50

All dimensions are in mm



Type FF



TypeM F

Applications

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

Note : Other sizes available on request.

Isolate

Web: www.pci-instruments.com | Email: sales@pci-instruments.com | Tel: +44 (0)1704 509090

NAVT

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.

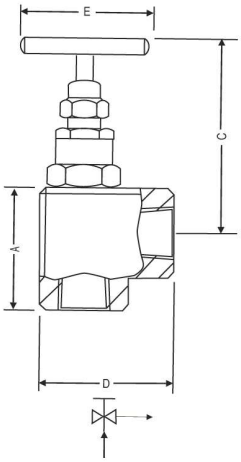
Pressure	:	400 bar
Max temp.	:	240^{0}C
Needle Tip	:	Stainless Steel
Material		Stainless Steel
Stem	:	(Type CT) Conical tip press fitted hard chrome plated
Gland Packing	:	PTFE (Grafoil to be used for temperature above 240^{0}C till 550C)
Stem packing area	:	Burnished mirror finish for smooth valve operation.
Safety	:	Back seating for preventing stem blowout.



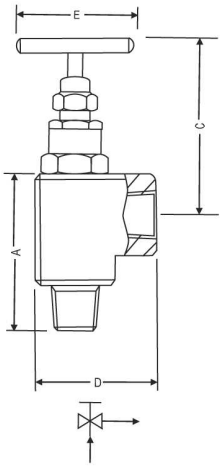
Size	Type	Body dimensions	Ht open	Ht closed	Handle
1/4"	FxF	32x32x25	62	59.5	40
	MxF	48x32x25	62	59.5	40
	MxM	48x48x25	62	59.5	40
3/8"	FxF	32x32x25	62	59.5	40
	MxF	48x32x25	62	59.5	40
	MxM	48x48x25	62	59.5	40
1/2"	FxF	50x50x32	86.6	82.6	50
	MxF	70x50x32	86.6	82.6	50
	MxM	70x70x32	86.6	82.6	50

All dimensions are in mm

Type FF



TypeM F



Applications

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

Note : Other sizes available on request.

Isolate

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How to order : NAVS, NAVT

Angle Valve

Body Material	Stem Packing	Size = P x P1	Connections	Threads
C = Carbon Steel	P = PTFE	24 = 1/4" x 1/4"	FF = Female x Female	N = NPT to ANSI B1.20.1.
S = SS 316	G = Grafoil	33 = 3/8" x 3/8"	MF = Male x Female	P = BSPP to BS2779
SL = SS 316L		44 = 1/2" x 1/2"	MM = Male x Male	B = BSPT to BS21
M = Monel 400			SW = Socket Weld	
H = Hastelloy C				
B = Brass				

Options -

IE : Handle circular plastic.
TF : Sour gas service to NACE standard MR-01-75.
SG: For Oxygen service, valves are supplied cleaned and degreased and suitably packed.
GH: Material test certificate
GO: Hydrotest test certificate

Example -

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

Valve Type	:	Body Material	+	Stem Packing	+	Size	+	Connections	+	Threads	+	Option
NAVS	:	H	+	G	+	44	+	MM	+	N	=	Final Order

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	CSA 105	SS304	SS316	SS316
Stainless Steel	SS316	SS316	SS316	SS316
Monel	Alloy 4000	Alloy 4000	Alloy 4000	Alloy 5000
Sour Gas	SS316	SS316	Alloy 4000	Alloy 5000