

# INSTRUMENTATION VALVES

## NEEDLE VALVE (Hard Seat)

IPS-NV-01

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.

### Technical specifications

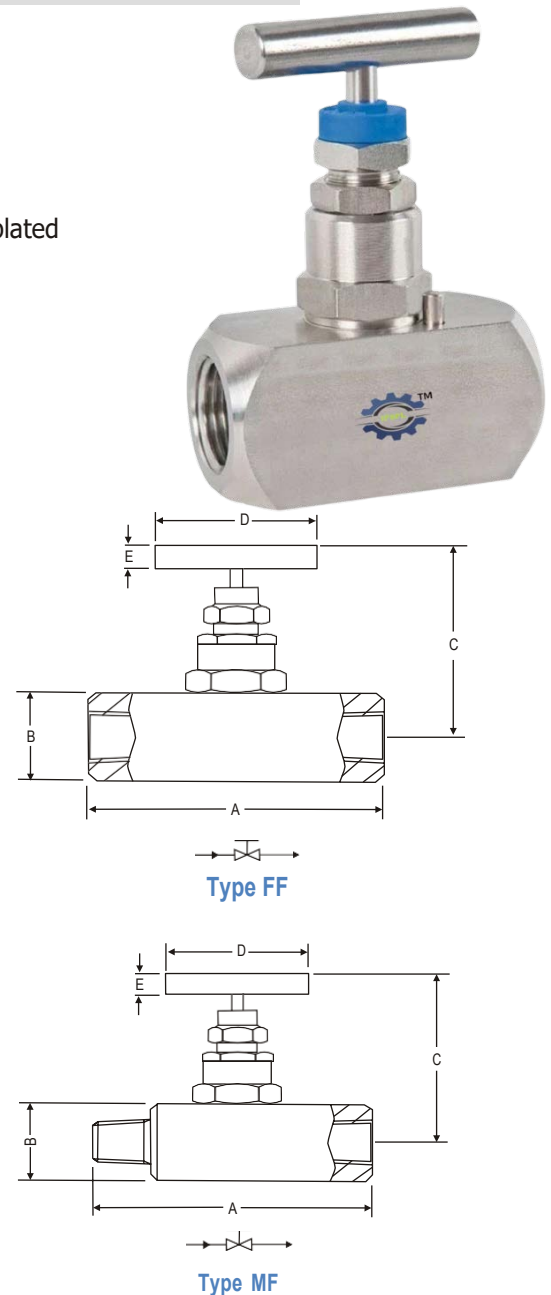
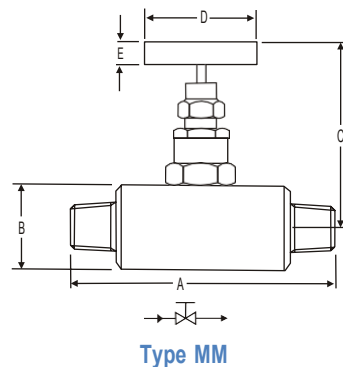
Design Pressure	:	6000 PSI
Max temp.	:	240°C
Material	:	Stainless Steel
Stem	:	(Type CT) Conical tip press fitted hard chrome plated
Gland Packing	:	PTFE
Stem packing area	:	Burnished finish for Smooth valve operation.
Safety Feature	:	Back seating for preventing stem blowout.

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	63	40	10
	MxF	65	25	63	40	10
	MxM	60	25	63	40	10
3/8"	FxF	55	25	63	40	10
	MxF	65	25	63	40	10
	MxM	65	25	63	40	10
1/2"	FxF	65	32	83.6	50	12
	MxF	75	32	83.6	50	12
	MxM	70	32	83.6	50	12
3/4"	FxF	70	38	88.6	50	12
	MxF	75	38	88.6	50	12
	MxM	80	38	83.6	50	12
1"	FxF	90	45	98	70	12
	MxF	105	45	98	70	12
	MxM	105	45	98	70	12

All dimensions are in mm

### Applications

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



**Optional :-**IPS-NV-10 High pressure valves for 10,000 psi pressure

IPS-NV-20 High pressure valves for 20,000 psi pressure

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

## NEEDLE VALVE (Hard Seat)

### How to order : IPS-NV-01, IPS-NV-10, IPS-NV-20

IPS-NV-01

Body Material	Stem Packing	Size = P x P1	Connections (inlet x outlet)	Threads
C = Carbon Steel	P = PTFE	22 = 1/8" x 1/8"	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	G = Grafoil	24 = 1/4" x 1/4"	MF = Male x Female	P = BSPP
S4 = SS 304		33 = 3/8" x 3/8"	MM = Male x Male	(BS 2779, ISO 228/1)
SL = SS 316L		44 = 1/2" x 1/2"	SW = Socket Weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400		66 = 3/4" x 3/4"		
M5 = Monel 500		88 = 1" x 1"		
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 + Connection + Threads + 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

Due to continuous development of our products technical information's are subject to change.

Please ensure the compatibility between the measured medium and the contacting part of the product when placing an order.

IPSPL reserves the right to make any change in this datasheet without notice. The information provided is believed to be accurate and reliable as of this product sheet.

Contact factory for custom configurations not shown