

NEEDLE VALVE

MODEL
C5.01



PRODUCT DESCRIPTION

Needle valve is used to accurately control flow rates of clean gasses or fluids. The adjustments are gradual and smooth for controlling the flow rate, however, they can also be used as a reliable shut-off valve. Needle valves can operate manually or automatically. Manually operated needle valves use the handwheel to control the distance between the plunger and the valve seat. When the handwheel is turned in one direction, the plunger is lifted to open the valve and allow fluid to pass through



NEEDLE VALVE

MODEL C5.01

KEY FEATURES

- One Isolate
- Straight mounting
- Trouble-free installation
- Abrasion & corrosion resistant
- Excellent tensile strength
- Reliable & Ductile
- Back seat prevent blow out

SPECIFICATIONS

Max. Working Pressure	: 6000 / 10000 psi
Max. Working Temp.	: 240°C
Instrument Connection	: NPT,BSP, Socket Weld, Butt Weld, Tube Fitting
Process connection	: NPT,BSP, Socket Weld, Butt Weld, Tube Fitting

PACKING MATERIAL VS TEMPERATURE RATING

PTFE	: 6000 psi @ 100°C 3000 psi @ 200°C
Graphite	: 6000 psi @ 200°C 3000 psi @ 430°C

APPLICATION

- Isolation of pressure gauges, switches & transmitters
- High pressure line shut off
- Liquid & gas services
- Power plant
- Hydraulic application

MATERIAL OF CONSTRUCTION

Tip Material	: SS 316
Other Wetted Parts	: SS 316
Stem packing	: PTFE
Stem	: Conical metal tip
"T" bar handle	: SS 304

CERTIFICATION & APPROVALS

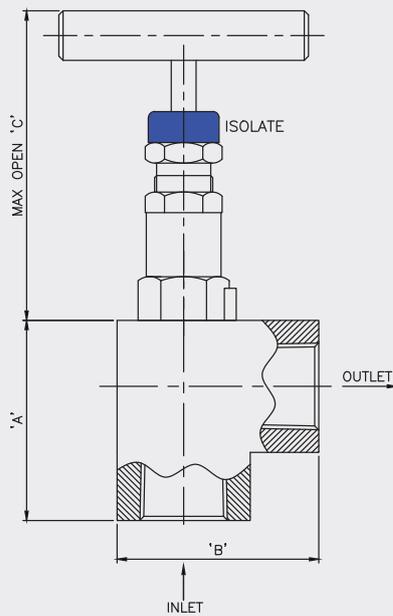
Material Certification	: Available as per EN10204 3.1 for wetted parts (Optional) Available as per EN10204 2.1 for non-wetted parts (Optional)
NACE Compliance	: Available as per MR 01 75/ MR 01 03 (ISO 15156) for wetted parts (Optional)

NEEDLE VALVE

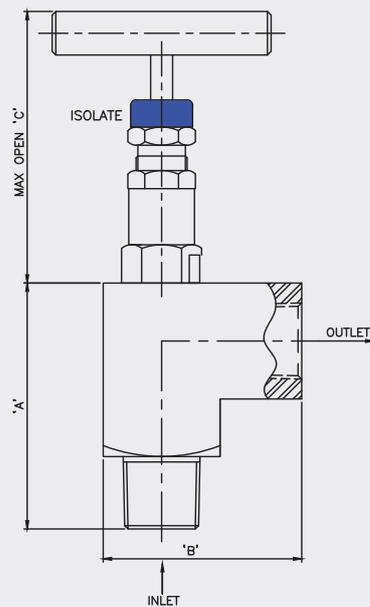
MODEL C5.01

Dimensional Drawings

Angular- Female x Female



Angular- Male x Female

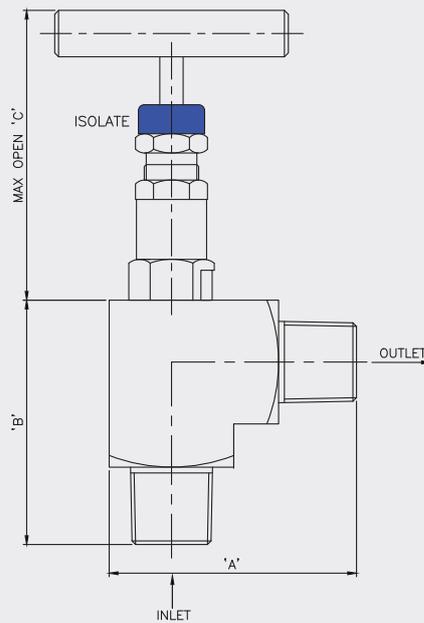


NEEDLE VALVE

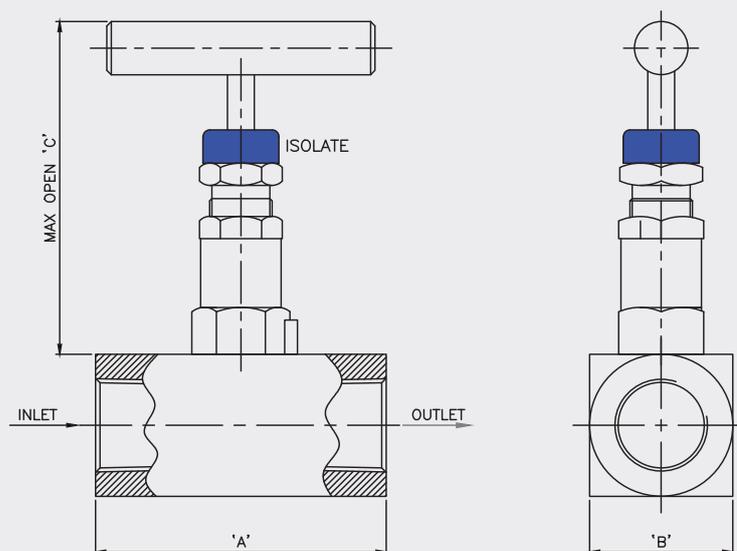
MODEL C5.01

Dimensional Drawings

Angular- Male x Male



Straight - Female x Female

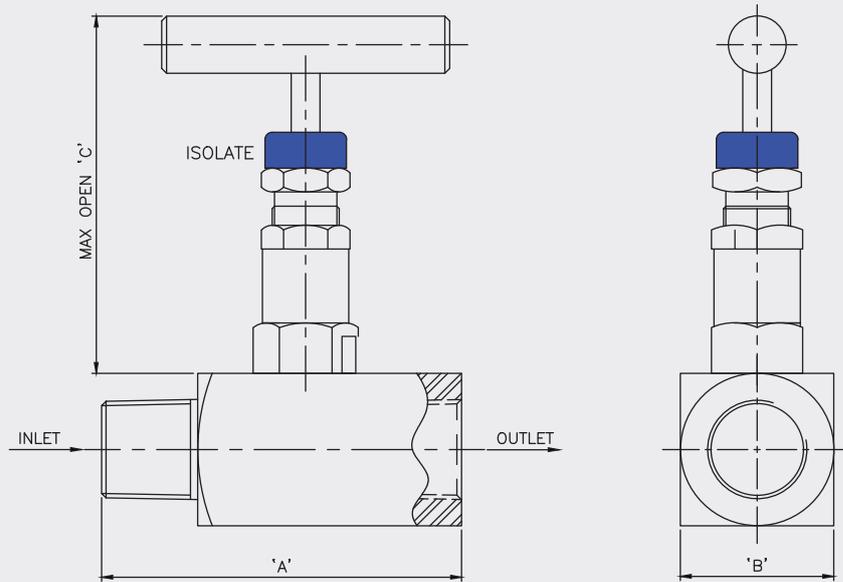


NEEDLE VALVE

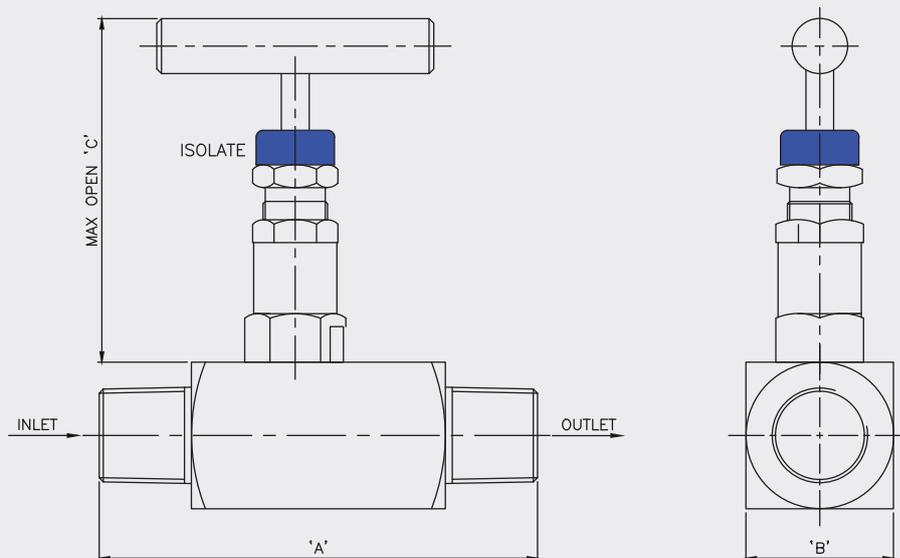
MODEL
C5.01

Dimensional Drawings

Straight Male x Female



Straight - Male X Male



NEEDLE VALVE

MODEL C5.01

Table 1

Connections		Length	Width	Max. Open-C
Size	Type	A	B	Steam Type
NPT 1/8"	F X F	50	20	55
	M X F	55	20	55
	M X M	60	20	55
NPT 1/4"	F X F	55	25	65
	M X F	65	25	65
	M X M	60	25	65
NPT 3/8"	F X F	55	25	65
	M X F	65	25	65
	M X M	65	25	65
NPT 1/2"	F X F	65	32	86.6
	M X F	75	32	86.6
	M X M	70	32	86.6
NPT 3/4"	F X F	70	38	86.6
	M X F	75	38	86.6
	M X M	80	38	86.6
NPT 1"	F X F	90	45	98
	M X F	105	45	98
	M X M	105	45	98

Connections		Length	Width	Max. Open-C
Size	Type	A	B	Steam Type
NPT 1/4"	F X F	32	32	62
	M X F	48	32	62
	M X M	48	48	62
NPT 3/8"	F X F	32	32	62
	M X F	48	32	62
	M X M	48	48	62
NPT 1/2"	F X F	50	50	86.6
	M X F	70	50	86.6
	M X M	70	70	86.6

Important Notes: Above drawings are not to scale. All Dimension are in mm. NS = Nominal size. Weights mentioned are approximate and for standard product. Weight can be different after selection of options.

NEEDLE VALVE

MODEL C5.01

MODEL CODING & ORDERING INFORMATION

DESCRIPTION	CODE	C5.01	1	S6	S4	PT	14BM	14NM	X17
Type									
Needle Valve	C5.01	C5.01							
Mounting									
Straight	1		1						
Angular	2								
TIP MATERIAL									
SS 316	S6			S6					
SS 316L	SL								
Monel 400	M4								
Hast C-276	HC								
Derlin	DL								
17-4PH	PH								
Other Wetted Material									
SS 304	S4				S4				
SS 316	S6								
SS 316L	SL								
Duplex 2205	DU								
Super Duplex 2507	SD								
Inconel 625	I5								
Inconel 825	I2								
Monel 400	M4								
Hast C-276	HC								
Packing									
PTFE	PT					PT			
Graphite	GR								
Instrument Connection									
¼" BSP (M)	14BM						14BM		
¼" NPT (M)	14NM								
½" BSP (M)	12BM								
½" NPT (M)	12NM								
M20×1.5(M)	M20M								
¼" BSP (F)	14BF								
¼" NPT (F)	14NF								
½" BSP (F)	12BF								
½" NPT (F)	12NF								
M20×1.5(F)	M20F								
¼" Socket weld	14SW								
½" Socket weld	12SW								
Process Connection									
¼" BSP (M)	14BM							14NM	
¼" NPT (M)	14NM								
½" BSP (M)	12BM								
½" NPT (M)	12NM								
M20×1.5 (M)	M20M								
¼" BSP (F)	14BF								
¼" NPT (F)	14NF								
½" BSP (F)	12BF								
½" NPT (F)	12NF								
M20×1.5 (F)	M20F								
¼" Socket weld	14SW								
½" Socket weld	12SW								
Other Options									
Material Test Certificate	X17								X17
Tested to NACE Standard	X20								
Certification for Oxygen service	X21								
Customize Marking	X51								
Hydro test certificate	X53								

NEEDLE VALVE

MODEL C5.01

SAMPLE ORDERING CODE:

C5.01.1.S6.S4.PT.14BM.14NM.X17

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