NEEDLE VALVES







3 UNION BONNET

INTEGRAL BONNET

2 SCREWED BONNET

MIC Needle valves are widely used for severe service operation as regulating and shut-off valves in many critical high pressure as well as vacuum applications on fluid line connections like

Natural gas lines, Gas sampling lines

Test benches, Control panels,

Instrument Air lines

Hydraulic power systems

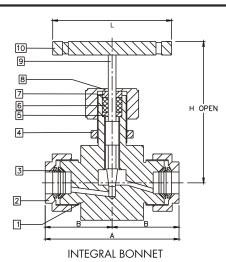
Flow meters, Manifolds

Drain, Vents, Pressure gauges and Transmitters Etc.

DESIGN FEATURES

- 1. Pressure up to 6000psi (412)bar.
- 2. Temperature from 70°F (21°C) to 450°F(232°C) with standard TFE packing and up to 1200°F with optional Grafoil packing.
- 3. Orifice sizes of 0.156"(3.962) to 0.437"(11.0998).
- 4. Choice of soft seat ,V and Ball Tip stem design.
- 5. Straight and angle pattern.
- 6. Many combinations of end connections.
- 7. Full raw material traceability, Testing & Identification.

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INTEGRAL BONNET NEEDLE VALVE

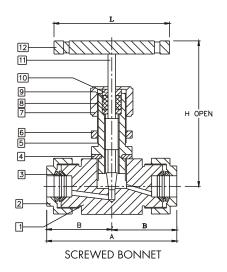
			MATERIAL OF CONSTRUCTION			
NO.	DESCRIPTION	QTY	STAINLESS STEEL	CARBON STEEL		
1	Body	1	SS	CS		
2	Nut	2	SS	CS		
3	Ferrule	2	SS	CS		
4	Lock Nut	1	SS	CS		
5	Back Up Ring	1	SS	SS		
6	Packing	1	PTFE/GRAPHOIL	PTFE/GRAPHOIL		
7	Gland	1	SS	SS		
8	Nut	1	SS	CS		
9	Stem	1	SS	SS		
10	Handle	1	SS	CS		

NEEDLE VALVES

INTEGRAL BONNET NEEDLE VALVES

MIC NUMBER 1INVIB2F2F	in	mm	INLET					
			INLEI	OUTLET	A	В	H OPEN	L
11017/11020/12014			1/8 Fem	ale NPT	1.88	0.94		
1INVIB2M2M		İ	1/8 Male NPT		1.50	0.75	1	
1INVIB2M2T	0.08	2	1/8 Male NPT	1/8 Tube	1.72	0.73	2.29	
1INVIB2T2T			1/8 Tube		1.94	0.97	i l	
1NVIB3T3T				Tube	1.94	0.97		1-3/4
2INVIB2F2F				iale NPT	1.62	0.81		
2INVIB2M2M				ıle NPT		0.01		1 3/1
2INVIB4M4M		. [1/4 Male NPT		1.96	0.98		
	0.172	4.4	1/4 Male NPT	1/4 Tube	2.11	0.70	2.34	
2NVIB6T6T			6mm Tube		2.26	1.13		
2INVIB4T4T			1/4 Tube					
2NVIB8T8T			8mm Tube		2.34	1.17		
3INVIB4F4F			1/4 Female NPT		2.12	1.06		
3INVIB4FI4FI				nale Tapered				
3INVIB4M4F				1/4 Female NPT	2.19	l		
3INVIB4M6T			1/4 Male NPT	3/8 Tube	2.42	1 12		
3INVIB6T6T 3INVIB6M6T	0.250	6.4	3/8 Male NPT	ıle NPT 3/8 Tube	2.26	1.13	2.81	2-1/2
3INVIB6M6T 3INVIB6M8T	0.230	0.4	3/8 Male NPT	1/2 Tube	2.42	ł	2.01	2-1/2
3NVIB10T10T					2.60	1.30		
3INVIB6T6T			10mm Tube 3/8 Tube		2.58	1.29		
3NVIB12T12T			12mm Tube			1.40		
3INVIBIZITZI 3INVIB8T8T			1/2 Tube					
4INVIB6F6F			3/8 Female NPT					
4INVIB6FI6FI				nale Tapered				
4INVIB8F8F			1/2 Female NPT		3	1.50	1 1	
4INIVIB8FI8FI	0.375 9.5	9.5	1/2 ISO Female Tapered		ŭ		3.91	3-1/4
4INVIB8M8M			1/2 Male NPT					
4INVIB8M8F				1/2 Female NPT				
4INVIB8T8T			1/2 Tube		3.80	1.90		
4INVIB12T12T	3/4 Tube							

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SCREWED BONNET NEEDLE VALVE

			MATERIAL OF CONSTRUCTION			
NO.	DESCRIPTION	QTY	STAINLESS STEEL	CARBON STEEL		
1	Body	1	SS	CS		
2	Nut	2	SS	CS		
3	Ferrule	2	SS	CS		
4	Washer	1	SS	CS		
5	Bonnet	1	SS	CS		
6	Check Nut	1	SS	CS		
7	Cap Nut	1	SS	CS		
8	Back Up Ring	1	SS	SS		
9	Packing	2	PTFE/GRAPHOIL	PTFE/GRAPHOIL		
10	Gland	1	SS	SS		
11	Stem	1	SS	SS		
12	Handle	1	SS	CS		

SCREWED BONNET NEEDLE VALVES

MIC	ORIFICE	CONNECTION SIZE	DIMENSIONS			L
NUMBER	OKIFICE	INLET/OUTLET	A	В	H OPEN	L
1INVSB2T2T	0.082	1/8 Tube	2.28	1.14	2.31	
2INVSB2T2T	0.094	1/8 1406	2.20	1.14	1.87	
3INVSB2M2M	0.125	1/8 Male NPT				
3INVSB2M4T	0.125	1/8Male NPT/ 1/4 Tube	1.76	0.88	2.31	
4INVSB2M4T	0.156	1/8Wate NF 1/ 1/4 Tube				
4INVSB4T4T	0.156	1/4 Tube			2.31	1-3/4
4INVSB4M4M	0.156	1/4 Male NPT	2.34	1.17	1.87	
4INVSB4MI4MI	0.156	1/4 Male BSP/ISO Tapered			2.31	i I
4INVSB4F4F	0.156	1/4 Female NPT				
4INVSB4M4F	0.156	1/4 Male NPT 1/4 Female NPT	2.41	1.21	1.87	
4INVSB6T6T	0.156	3/8 Tube				