WINFLOW NEEDLE VALVES







2 SCREWED BONNET

UNION BONNET

WINFLOW 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

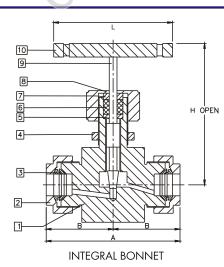
Flow meters, Manifolds

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

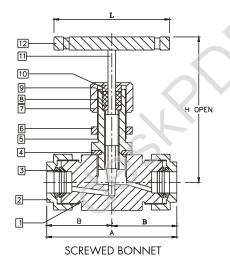
			MATERIAL OF CONSTRUCTION			
NO.	DESCRIPTION	QTY	STAINLESS STEEL	CARBON STEEL		
1	Body	1	SS	CS		
2	Nut	2	SS	CS		
3	Ferrule	2	SS	CS		
4	Lock Nut	1	SS	CS		
5	Back Up Ring	1	SS	SS		
6	Packing	1	PTFE/GRAPHOIL	PTFE/GRAPHOIL		
7	Gland	1	SS	SS		
8	Nut	1	SS	CS		
9	Stem	1	SS	SS		
10	Handle	1	SS	CS		

WINFLOW NEEDLE VALVES

INTEGRAL BONNET NEEDLE VALVES

WINFLOW	ORIFICE		CONNECT	DIMENSIONS				
NUMBER	in	mm	INLET	OUTLET	A	В	H OPEN	L
1INVIB2F2F			1/8 Fem	nale NPT	1.88	0.94		
1INVIB2M2M			1/8 Ma	ile NPT	1.50	0.75	1	
1INVIB2M2T	0.08	2	1/8 Male NPT	1/8 Tube	1.72	0.75	2.29	
1INVIB2T2T			1/8	Tube	1.04	0.07	1	
1NVIB3T3T			3mm	Tube	1.94	0.97		
2INVIB2F2F			1/8 Fem	nale NPT	1.62	0.81		1-3/4
2INVIB2M2M			1/8 Ma	ale NPT	1.02	0.81		1-3/4
2INVIB4M4M			1/4 Ma	ile NPT	1.96	0.98	1	
2INVIB4M4T	0.172	4.4	1/4 Male NPT	1/4 Tube	2.11	0.98	2.34	
2NVIB6T6T			6mm	Tube	2.26	1.13]	
2INVIB4T4T			1/4	Tube	2.26	1.13		
2NVIB8T8T			8mm	Tube	2.34	1.17]	
3INVIB4F4F			1/4 Fem	nale NPT	2.12	1.06		
3INVIB4FI4FI			1/4 ISO Fer	nale Tapered		1.00		
3INVIB4M4F			1/4 Male NPT	1/4 Female NPT	2.19		1	
3INVIB4M6T			1/4 Male NPT	3/8 Tube	2.42]		
3INVIB6T6T				ile NPT	2.26	1.13		
3INVIB6M6T	0.250	6.4	3/8 Male NPT	3/8 Tube	2.42		2.81	2-1/2
3INVIB6M8T			3/8 Male NPT	1/2 Tube	2.53			
3NVIB10T10T			10mn	n Tube	2.60	1.30		
3INVIB6T6T				Tube	2.58	1.29		
3NVIB12T12T			12mn	n Tube	2.80	1.40		
3INVIB8T8T				Tube	2.00	1.40		
4INVIB6F6F				nale NPT				
4INVIB6FI6FI				nale Tapered 🔷				
4INVIB8F8F				nale NPT	3	1.50		
4INVIB8FI8FI	0.375	9.5		nale Tapered		1	3.91	3-1/4
4INVIB8M8M	0.373	7.3		ile NPT			3.91	3-1/4
4INVIB8M8F				1/2 Female NPT				
4INVIB8T8T				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

WINFLOW	ORIFICE	CONNECTION SIZE	DIMENSIONS			L
NUMBER	ORIFICE	INLET/OUTLET	A	В	H OPEN	L
1INVSB2T2T	0.082	1/8 Tube	2.20	1.14	2.31	
2INVSB2T2T	0.094	1/8 1406	2.28	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	ł
4INVSB2M4T	0.156	1/8Maie NP1/1/4 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	
4INVSB4F4F	0.156	1/4 Female NPT				1
4INVSB4M4F	0.156	1/4 Male NPT 1/4 Female NPT	2.41	1.21	1.87	
4INVSB6T6T	0.156	3/8 Tube	1			ł