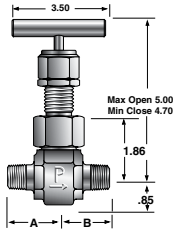
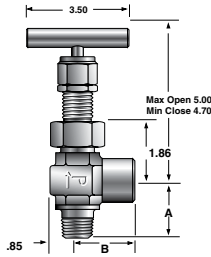


NEEDLE VALVES

U16 SERIES



Panel Hole Diameter:
1.02
Max Panel Thickness:
0.62



Model Shown: 16M-U16LR-G-SS

Model Shown: 16M16F-U16AB-T-SS

Part No.		End Connections		Stem Type	Flow Data					Dimensions	
Inline	Angle	Inlet (Port 1)	Outlet (Port 2)		Orifice (in.)	C _v	X _T [*]	C _v	X _T [*]	A† (in.)	B† (in.)
8A-U16LR	8A-U16AR	1/2" Compression A-LOK®		Regulating	0.394	1.59	0.73	2.11	0.62	1.97	1.97
8A-U16LB	8A-U16AB	1/2" Compression A-LOK®		Blunt	0.394	1.90	0.95	2.53	0.81	1.97	1.97
8F-U16LR	8F-U16AR	1/2" Female NPT		Regulating	0.437	1.82	0.72	2.42	0.61	1.56	1.56
8F-U16LB	8F-U16AB	1/2" Female NPT		Blunt	0.437	2.67	0.80	3.55	0.68	1.56	1.56
8M-U16LR	8M-U16AR	1/2" Male NPT		Regulating	0.437	1.82	0.72	2.42	0.61	1.92	1.92
8M-U16LB	8M-U16AB	1/2" Male NPT		Blunt	0.437	2.67	0.80	3.55	0.68	1.92	1.92
8PSW-U16LR	8PSW-U16AR	1/2" Pipe Socket Weld		Regulating	0.437	1.82	0.72	2.42	0.61	1.56	1.56
8PSW-U16LB	8PSW-U16AB	1/2" Pipe Socket Weld		Blunt	0.437	2.67	0.80	3.55	0.68	1.56	1.56
8W-U16LR	8W-U16AR	1/2" Tube Socket Weld		Regulating	0.394	1.59	0.73	2.11	0.62	1.69	1.69
8W-U16LB	8W-U16AB	1/2" Tube Socket Weld		Blunt	0.394	1.90	0.95	2.53	0.81	1.69	1.69
8Z-U16LR	8Z-U16AR	1/2" Compression CPI™		Regulating	0.394	1.59	0.73	2.11	0.62	1.97	1.97
8Z-U16LB	8Z-U16AB	1/2" Compression CPI™		Blunt	0.394	1.90	0.95	2.53	0.81	1.97	1.97
12A-U16LR	12A-U16AR	3/4" Compression A-LOK®		Regulating	0.437	1.82	0.72	2.42	0.61	1.97	1.97
12A-U16LB	12A-U16AB	3/4" Compression A-LOK®		Blunt	0.437	2.67	0.80	3.55	0.68	1.97	1.97
12F-U16LR	12F-U16AR	3/4" Female NPT		Regulating	0.437	1.82	0.72	2.42	0.61	1.63	1.63
12F-U16LB	12F-U16AB	3/4" Female NPT		Blunt	0.437	2.67	0.80	3.55	0.68	1.63	1.63
12M-U16LR	12M-U16AR	3/4" Male NPT		Regulating	0.437	1.82	0.72	2.42	0.61	1.63	1.63
12M-U16LB	12M-U16AB	3/4" Male NPT		Blunt	0.437	2.67	0.80	3.55	0.68	1.63	1.63
12PSW-U16LR	12PSW-U16AR	3/4" Pipe Socket Weld		Regulating	0.437	1.82	0.72	2.42	0.61	1.56	1.56
12PSW-U16LB	12PSW-U16AB	3/4" Pipe Socket Weld		Blunt	0.437	2.67	0.80	3.55	0.68	1.56	1.56
12W-U16LR	12W-U16AR	3/4" Tube Socket Weld		Regulating	0.437	1.82	0.72	2.42	0.61	1.56	1.56

* Tested in accordance with ISA S75.02. Gas flow will be choked when $P_1 - P_2 / P_1 = x_T$.

† For CPI™ and A-LOK®, dimensions are measured with nuts in the finger tight position

Part No.		End Connections			Flow Data					Dimensions	
Inline	Angle	Inlet (Port 1)	Outlet (Port 2)	Stem Type	Orifice	Inline		Angle		A†	B†
					(in.)	C _v	X _t *	C _v	X _t *	(in.)	(in.)
12W-U16LB	12W-U16AB	3/4" Tube Socket Weld		Blunt	0.437	2.67	0.80	3.55	0.68	1.56	1.56
12Z-U16LR	12Z-U16AR	3/4" Compression CPI™		Regulating	0.437	1.82	0.72	2.42	0.61	1.97	1.97
12Z-U16LB	12Z-U16AB	3/4" Compression CPI™		Blunt	0.437	2.67	0.80	3.55	0.68	1.97	1.97
16A-U16LR	16A-U16AR	1" Compression A-LOK®		Regulating	0.437	1.82	0.72	2.42	0.61	1.97	1.97
16A-U16LB	16A-U16AB	1" Compression A-LOK®		Blunt	0.437	2.67	0.80	3.55	0.68	1.97	1.97
16F-U16LR	16F-U16AR	1" Female NPT		Regulating	0.437	1.82	0.72	2.42	0.61	1.81	1.81
16F-U16LB	16F-U16AB	1" Female NPT		Blunt	0.437	2.67	0.80	3.55	0.68	1.81	1.81
16M-U16LR	16M-U16AR	1" Male NPT		Regulating	0.437	1.82	0.72	2.42	0.61	1.81	1.81
16M-U16LB	16M-U16AB	1" Male NPT		Blunt	0.437	2.67	0.80	3.55	0.68	1.81	1.81
16Z-U16LR	16Z-U16AR	1" Compression CPI™		Regulating	0.437	1.82	0.72	2.42	0.61	1.97	1.97
16Z-U16LB	16Z-U16AB	1" Compression CPI™		Blunt	0.437	2.67	0.80	3.55	0.68	1.97	1.97

* Tested in accordance with ISA S75.02. Gas flow will be choked when $P_1 - P_2 / P_1 = X_t$.
† For CPI™ and A-LOK®, dimensions are measured with nuts in the finger tight position

HOW TO ORDER

The correct part number is easily derived from the following number sequence. The six product characteristics required are coded as shown below. *Note: If the inlet and outlet ports are the same, eliminate the outlet port designator.

EXAMPLE: 4Z * - U6A R - G - SS

① ② ③ ④ ⑤ ⑥

Inlet Port Outlet Port Valve Series Stem Type Packing Body Material

Describes an angle pattern U6 Series needle valve equipped with 1/4" CPI™ compression inlet and outlet ports, a regulating stem type, Grafoil® packing, stainless steel construction.

①	②	③	④	⑤	⑥
Inlet Port	Outlet Port	Valve Series	Stem Type	Packing	Body Material
2F, 4A, 4F, 4M, 4W, 4Z		U6A U6L			
4A, 4F, 4Z, 6A, 6F, 6W, 6Z, 8A, 8F, 8W, 8Z, 10A, 10Z, 12A, 12Z		U12A U12L	R - R Blunt K - PCTFE	T - PTFE G - Grafoil®	SS - Stainless Steel
8A, 8F, 8M, 8PSW, 8W, 8Z, 12A, 12F, 12M, 12PSW, 12W, 12Z, 16A, 16F, 16M, 16Z		U16A U16L			

High Temperature: Add the suffix -HT to the end of the part number to receive valves with a 316 stainless steel lower stem and stainless steel handle. Example: 4M-U6LB-G-SS-HT.

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