

Customer Name:	DELTA GMBH	Project Name:	BOC	JOB #:	800303
Quote no.:	800302	End User:	DELTA	Customer RFQ:	
Rev. no. / Date:	0 / 29-08-2024	Service:	CHILLER EXPANSION LINE	Customer PO.:	2024-PO-200
Line Item #:	1	Tag:	LCV-RU0001A-B	Quantity:	2
Fluid:	100% PROPYLENE LIQUID	Critical Pressure:	42,50 bar a	Doc no.:	800302-IDS-001
Design Press. in/out:	22 / 22 bar g	Design Temp. in/out/min:	120 / 120 / -45 deg C	Area Class.	Zone 2, IIB, T3

1	Parameters	Units	Minimum	Normal	Maximum	Cond 4	Cond 5
2	Liquid Flow	kg/h	1139,00	2847,00	3273,00	1139,00	3273,00
3	Gas Flow	kg/h	...	...	...	...	...
4	Inlet-P1	bar g	18,78	18,78	22,00	22,00	18,78
5	Outlet-P2	bar g	3,840	3,840	3,840	3,840	3,840
6	Pressure Drop	bar	14,94	14,94	18,16	18,16	14,94
7	Temperature	deg C	56,00	56,00	57,00	56,00	57,00
8	Vapor Pressure	bar g	18,68	18,68	18,68	18,68	18,68
9	Density	kg/m3	437,00	437,00	437,00	437,00	437,00
10	Viscosity	Centipoise	0,06900	0,06900	0,06900	0,06900	0,06900
11	Required Cv		0,971	2,46	2,16	0,743	2,85
12	Open	% Open	24	56	50	19	65
13	Valve Noise (IEC)	dBa	< 85	< 85	< 85	< 85	< 85
14	Valve Velocity	m/s	Flash	Flash	Flash	Flash	Flash
15	Pipe Velocity	m/s	Flash	Flash	Flash	Flash	Flash

LINE	VALVE	TRIM	ACTUATOR	POSITIONER	AIRSET	SOV	(BOX) SWITCH	Booster	Lock-up	QC	NOTES
16	Pipe Size: In/Out	1,5 / 4 inch		55							
17	Pipe Sch.: In/Out	80 / 40		56							
18	Pipe Insulation	No		57							
19	Mfr. / Body Style / Model	VSI / Globe / G-Stream		58							
20	Size / Rating Std. / Press. Rating in/out	1" / ANSI / CL 300		59							
21	Leakage Class	IV		60							
22	End Conn. / Finish / Butt Weld Sch.	Integral Flanges RF / 125- 250 Ra / NA		61							
23	Face To Face	ANSI/ISA 75.08.01		62							
24	Body Material in/out	A352 LCB / LCC		63							
25	Bonnet Type / Bellows	Standard / NA		64							
26	Bonnet Matl.	Same as body		65							
27	Body Bolting Material	L7M / 7M		66							
28	Gaskets Material	316L SS + graphite		67							
29	Packing Style / Options	Single / NA		68							
30	Packing Material	PTFE V-Ring		69							
31	Trim Design / Balancing	Unbal.-Contoured / N/A		70							
32	Trim Size [mm] / Rated Cv [Stages]	11/4,52 [NA]		71							
33	Stroke [mm]	19,1		72							
34	Flow / Flow Characteristics	Under / Linear		73							
35	Plug Material / Plug Facing	A479 316-316L / Stellite 6		74							
36	Stem Material	A479 316-316L		75							
37	Seat Type	Metal		76							
38	Seat Ring Material / Facing	A479 316-316L / Stellite 6		77							
39	Soft Seat Material	NA		78							
40	Cage / Seat Retainer Material	N/A / A351 CF8M		79							
41	Mfr. / Type / Model	VSI / Pneumatic Piston / L-Act		80							
42	Size / Spring Type / Act. Function	25 / Standard / Throttling		81							
43	Fail Action / Air To	Close / Open		82							
44	Shut-Off Press. / Air Supply Press.	22 bar g / 4,5 bar g		83							
45	Power Supply			84							
46	Actuator Material / O-Rings	Aluminum / Buna-N		85							
47	Handwheel / Travel Stop	None / None		86							
48	Volume Tank	No		87							
49	Pneum. tubing O.D. / Matl.	5/16" / A269 Tp316		88							
50	Fitting Mfr. / Matl.	VSI Standard / 316SS double ferrule		89							
51	Sunshade	Not Provided		90							
52	Stroking Time [s]			91							
53	Quick Open [s]			92							
54	Quick Close [s]			93							

<b>*Factory review required. Completed by</b> -Cv calculation according to IEC 60534-2-1 / ANSI/ISA-75.01.01 -noise calculation for liquid according to IEC 60534-8-4{ed3.0} -noise calculation for gases according to IEC 60534-8-3{ed3.0}	Submitted By	M.Castiglioni
	Company	
	Contact Information	