
 PETROLVALVES GROUP <small>enabling your energy flow</small>			INSTRUMENT DATA SHEET v1.0.21					 VSI CONTROLS <small>A PETROLVALVES COMPANY</small>			
Customer Name:		DELTA GmbH		Project Name:		BOC		JOB #:			
Quote no.:		24-0151.VS		End User:		DELTA		Customer RFQ:			
Rev. no. / Date:		0.0 / 02-07-2024		Service:		CHILLER EXPANSION LINE		Customer PO.:			
Line Item #:		1		Tag:		LCV-0001A-B		Quantity:		2	
Fluid:		100% PROPYLENE LIQUID		Critical Pressure:		42.50 bar a		PID no.:		24-030_2-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	
2		Liquid Flow		kg/h		1139.00		2847.00		3273.00	
3		Gas Flow		kg/h		
4		Inlet-P1		bar g		18.78		18.78		22.00	
5		Outlet-P2		bar g		3.840		3.840		3.840	
6		Pressure Drop		bar		14.94		14.94		18.16	
7		Temperature		deg C		56.00		56.00		57.00	
8		Vapor Pressure		bar g		18.68		18.68		18.68	
9		Density		kg/m3		437.00		437.00		437.00	
10		Viscosity		Centipoise		0.05900		0.05900		0.05900	
11		Required Cv				0.977		2.48		2.18	
12		Open		% Open		34		81		72	
13		Valve Noise (IEC)		dBA		Flash		Flash		Flash	
14		Valve Velocity		m/s		Flash		Flash		Flash	
15		Pipe Velocity		m/s		Flash		Flash		Flash	
16		Pipe Size: In/Out		1.5 / 2 inch		55				Positioner Mfr. / Model	
17		Pipe Sch.: In/Out		80 / 40		56				Protocol / Elec. Connection	
18		Pipe Insulation		No		57				Cert. / Enclosure Rating	
19		Mfr. / Body Style / Model		VSI / Globe / G-Stream		58				Housing / Diagnostics	
20		Size / Rating Std. / Press. Rating in/out		1" / ANSI / CL 300		59				Gauges / Options	
21		Leakage Class		IV		60				Airset Mfr.* / Code	
22		End Conn. / Finish / Butt Weld Sch.		Integral Flanges RF / 125- 250 Ra / NA		61				Air Conn. / Enclosure Matl.	
23		Face To Face		ANSI/ISA 75.03		62				Drain / Relieving	
24		Body Material in/out		A352 LCB / LCC		63				Gauge Mfr. / Code	
25		Bonnet Type / Bellows		Extended / NA		64				SOV Mfr.*	
26		Bonnet Matl.		Same as body		65				SOV Code	
27		Body Bolting Material		L7M / 7M		66				Valve Action	
28		Gaskets Material		316L SS + graphite		67				Body matl. / Enclosure Matl.	
29		Packing Style / Options		Single / NA		68				Air Connection / Elec. Conn.	
30		Packing Material		PTFE V-Ring		69				Voltage / Rating	
31		Trim Design / Balancing		Unbal.-Contoured / N/A		70				Elec. Cert. / Enclosure Rating	
32		Trim Size [mm] / Rated Cv [Stages]		9/3.07 [NA]		71				(Box) Switch Mfr.* / Code	
33		Stroke [mm]		19.1		72				Switch Code	
34		Flow / Flow Characteristics		Under / Linear		73				Switch no. / Type	
35		Plug Material / Plug Facing		A479 316-316L / Stellite 6		74				Switch Rating	
36		Stem Material		A479 316-316L		75				Elec. Cert. / Enclosure Rating	
37		Seat Type		Metal		76				Enclosure Matl. / Elec. Conn.	
38		Seat Ring Material / Facing		A479 316-316L / Stellite 6		77				Booster Mfr.* / Code	
39		Soft Seat Material		NA		78				Air Connection / Encl. Matl.	
40		Cage / Seat Retainer Material		N/A / A351 CF8M		79				Lock-up Valve Mfr.* / Code	
41		Mfr. / Type / Model		VSI / Pneumatic Piston / L-Act		80				Air Connection / Encl. Matl.	
42		Size / Spring Type / Act. Function		25 / Standard / Throttling		81				Marking / NACE / Dual Use	
43		Fail Action / Air To		Close / Open		82				Hydro / St. Leakage / Functional	
44		Shut-Off Press. / Air Supply Press.		22 bar g / 4.5 bar g		83				* or equivalent	
45		Power Supply		NA		84				1) Expanders & Reducers will not be under our scope of supply.	
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					
*Factory review required. Completed by -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		user1			
						Company					
						Contact Information					