

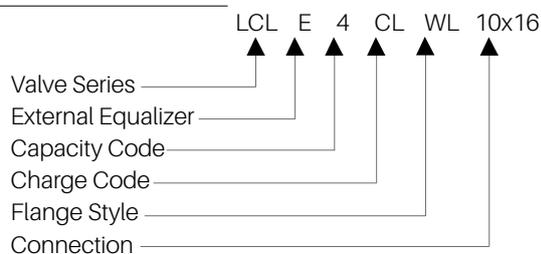
Thermo™-expansion valves L-series with exchangeable power assemblies and orifices

Features

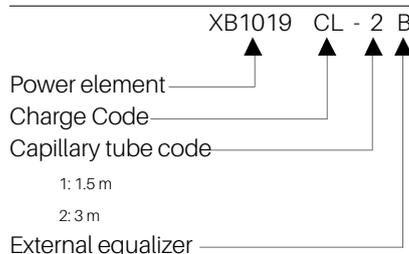
- Applications for series L valves include superheat control (desuperheating of suction gas i.e., in hotgas bypass systems and interstage cooling in multiple stage compressors)
- Modular design for economical logistics and easy assembly and servicing
- Very good stability is attained because of the large forces generated by the large diaphragm diameter
- High-quality materials and processes for high reliability and long lifetime
- Superior partial load performance due to seat orifice design (LJRE, LERE & LIRE)
- Max. allowable pressure PS
 - 46 bar with XB power assembly
 - 31 bar with XC power assembly.
- Medium temperature range TS: -45...+65°C



Type code valve



Type code power assembly



Nominal capacities for cages

Valve Series	Capacity Code*	Nominal Capacity Q _n (kW)														Orifice Type	Power Assembly Type
		R134a	R404A/R507	R407C	R450A	R613A	R448A	R449A	R410A	R32	R454A	R454C	R1234yf	R1234ze	R455A		
LCLE	1 *	1.5	1.3	2.1	1.3	1.3	1.9	1.9	2.2	3.3	1.9	1.6	1.1	1.1	1.8	X 22440-B1B	XB1019 ...2B
	2 *	2.9	2.6	4.0	2.5	2.6	3.7	3.6	4.3	6.4	3.6	3.0	2.1	2.2	3.5	X 22440-B2B	
	3 *	6.1	5.6	8.5	5.4	5.5	7.9	7.7	9.2	13.7	7.8	6.5	4.4	4.8	7.5	X 22440-B3B	
	3.5 *	9.3	8.4	12.9	8.1	8.3	11.9	11.6	13.9	20.7	11.7	9.7	6.6	7.2	11.3	X 22440-B3.5B	
	4 *	13.5	12.2	18.7	11.8	12.1	17.3	16.9	20.2	30.0	17.0	14.2	9.6	10.5	16.4	X 22440-B4B	
	6 *	17.3	15.7	24.0	15.1	15.5	22.1	21.6	25.9	38.5	21.8	18.2	12.4	13.4	21.0	X 22440-B5B	
	7 *	23.6	21.5	32.9	20.7	21.2	30.3	29.6	35.5	52.8	29.9	24.9	17.0	18.4	28.8	X 22440-B6B	
	10 *	37.2	33.8	51.7	32.6	33.4	47.7	46.6	55.8	83.0	47.0	39.1	26.7	28.9	45.3	X 22440-B8B	
LJRE	11 *	45.0	40.0	62.0	40.0	40.0	57.8	56.5	67.7	100.7	57.0	47.4	32.3	35.1	54.9	X 11873-B4B	
	12 *	57.0	51.0	80.0	50.0	52.0	73.8	72.1	86.4	128.5	72.8	60.5	41.3	44.7	70.1	X 11873-B5B	
LERE	13 *	71.0	63.0	99.0	62.0	64.0	90.7	88.6	-	-	89.5	74.4	50.7	55.0	86.2	X 9117-B6B	XC726...2B
	14 *	81.0	72.0	112.0	71.0	73.0	103.7	101.3	-	-	102.3	85.1	58.0	62.9	98.5	X 9117-B7B	
	15 *	112.0	99.0	155.0	98.0	100.0	142.6	139.3	-	-	140.6	117.0	79.7	86.4	135.4	X 9117-B8B	
LIRE-	16 *	135.0	120.0	188.0	119.0	121.0	173.5	169.5	-	-	171.1	142.3	97.0	105.2	164.8	X 9117-B9B	
	17 *	174.0	154.0	241.0	152.0	156.0	222.4	217.2	-	-	219.3	182.4	124.3	134.8	211.2	X 9166-B10B	

Note 1: Nominal conditions: Evaporating Temperature +4°C (dew point), Condensing Temperature +38°C (bubble point), Subcooling 1 K

Note 2: For selection of other operating conditions, please use "Select" software.

Note 3: *) Please indicate designation character for desired superheat.

Selection table power assembly and recommended flanges

Valve Series	Orifice Type	Connection Standard Flange, Angle Style		Connection (Inlet x Outlet)		Power Element Type
		Type	Type	Metric	Imperial	
LCLE	X22440-B1B / B2B / B3B / B3.5B / B4B		C501-5	-	3/8" x 5/8" ODF	XB1019...2B
		C501-5mm		10x16 mm ODF		
	X22440-B5B / B6B		C501-7		1/2" x 5/8" ODF	
		C501-7mm		12x16 mm ODF		
			A576		5/8" x 7/8" ODF 7/8" x 1 1/8" ODF	
A576-mm		16x22 mm ODF 22x28 mm ODM	-			
LJRE	X11873-B4B / B5B	10331	10331	22x22 mm ODF	7/8" x 7/8" ODF 1 1/8" x 1 1/8" ODM	XC726...2B
LERE/ LIRE	X9117-B6B / B7B / B8B / B9B / B10B		9153	-	7/8" x 7/8" ODF 1 1/8" x 1 1/8" ODM	
		9153-mm		22x22 mm ODF 22x28 mm ODM		

Suction gas superheat selection:

* Charge Code	Refrigerant												
	R134a	R404A / R507	R407C	R410A	R448A / R449A	R450A	R513A	R454A	R454C	R1234yf	R1234ze	R32	R455A
CL	-	22K	13K	30K	17K	-	-	19K	13K	-	-	31K	15K
GL	14K	-	25K	-	30K	10K	17K	32K	27K	16K	-	-	28K
UL	30K	-	-	-	-	26K	-	-	-	-	22K	-	-

Note: *) Please Indicate Designation Character for Desired Superheat.

Accessories and spare parts

Description	Type	Part No.
Service Tool for T, ZZ, L and 935 Series valves	X 99999	027 579
Gasket sets for T, ZZ, L and 935 Series valves	X 13455 -1	800 005
Gasket sets for T, ZZ, L and 935 Series valves Steel Screws for flange types: C500, C501, 9761, X6346, X6669, A576	Screw ST 32	803 573
Steel Screws for flange types: 9148, 9149, 9152, 9153, 10331, 10332	Screw ST 48	803 574
Bulb clamp for XB1019	XA 1728-4	803260
Bulb clamp for XC726	XA 1728-5	803261