



LCL SERIES DESUPERHEATING VALVES

The LCL take-apart Series is a de-superheating (liquid injection) valve used in conjunction with hot gas bypass to prevent excessive suction line superheat. LCL valves can be used for interstage cooling in compound systems.

FEATURES

- Stainless steel power element prevents corrosion and valve failure
- Take-apart construction for easy field service
- Interchangeable cages, body flanges, and power assemblies for versatility
- External superheat adjustment

SPECIFICATIONS

Maximum Working Pressure..... 450 psig (31 bar)

MODEL NUMBER NOMENCLATURE - Example: LCLE 1A-02

VALVE SERIES	EQUALIZER	VALVE SIZE	CHARGE CODE	SEQUENTIAL IDENTIFIER	CUSTOMER SPECIAL	PACK TYPE
LCL	E	1	A	-02		
De-Superheating Liquid Injection	E = External 1/4" SAE (Omit for Internal)	Valve Size (Contact application engineer for sizing)	See Charge Codes Table for Selection of A, B, or C	-01 Thru -99	G = Customer Special (Omit for Standard)	B1 = Bulk Pack (Omit for Individual Pack)

LCL SERIES THERMOSTATIC EXPANSION VALVES

VALVE SIZE	CHARGE CODE	INLET X OUTLET CONNECTION	EQUALIZER	CAP LENGTH	MODEL NUMBER	ITEM NUMBER
1	A	Valve Less Flange	External	5 Ft.	LCLE 1A-02	055096
1	A	Valve Less Flange	Internal	5 Ft.	LCL 1A-01	022018
1	B	Valve Less Flange	Internal	5 Ft.	LCL 1B-01	022017
2	A	Valve Less Flange	External	5 Ft.	LCLE 2A-01	022003
2	A	Valve Less Flange	Internal	5 Ft.	LCL 2A-01	022005
2	B	Valve Less Flange	External	5 Ft.	LCLE 2B-01	021997
2	B	Valve Less Flange	Internal	5 Ft.	LCL 2B-01	021996
2	C	1/2" X 5/8" ODF ANG	External	5 Ft.	LCLE 2C-01	064297
2	C	Valve Less Flange	Internal	5 Ft.	LCL 2C-01	045527
3	A	Valve Less Flange	External	5 Ft.	LCLE 3A-01	021991
3	A	Valve Less Flange	Internal	5 Ft.	LCL 3A-02	055093
3	B	Valve Less Flange	External	5 Ft.	LCLE 3B-01	021985
3	B	Valve Less Flange	Internal	5 Ft.	LCL 3B-01	021987
4	A	Valve Less Flange	External	5 Ft.	LCLE 4A-01	062885
4	B	Valve Less Flange	External	5 Ft.	LCLE 4B-01	061054
4	C	Valve Less Flange	External	5 Ft.	LCLE 4C-01	055097
6	A	Valve Less Flange	Internal	5 Ft.	LCL 6A-01	047759
6	B	Valve Less Flange	Internal	5 Ft.	LCL 6B-01	021961

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LCL SERIES CHARGE CODES

SATURATED SUCTION	REFRIGERANT					
	R-22		R-134a		R-404a / R-507	
	REQUIRED SUCTION GAS		REQUIRED SUCTION GAS		REQUIRED SUCTION GAS	
TEMPERATURE	45°F	65°F	45°F	65°F	45°F	65°F
40°F	—	A	—	B	—	—
30°F	—	A	B	B	—	A
20°F	A	B	B	C	—	A
10°F	B	B	B	C	A	B
0°F	B	B	C	C	A	B
-10°F	B	C	C	C	B	B
-20°F	B	C	C	C	B	C
-30°F	C	C	C	C	B	C
-40°F	C	C	C	C	B	C

LCL SERIES CAGE KITS

VALVE	CAPACITY RANGE REFERENCE (TONS)	R-12	R-22	R-134a	R-404A / R-507	R-502	R-407C	EQUALIZER	MODEL NUMBER	ITEM NUMBER
TCL, LCL	1/4 to 1/2	1/4	1/2	1/4	1/4	1/4	1/2	Internal	X-22440-B1A	037034
TCLE, LCLE	1/4 to 1/2	1/4	1/2	1/4	1/4	1/4	1/2	External	X-22440-B1B	037035
TCL, LCL	1/2 to 1	1/2	1	3/4	1/2	1/2	1	Internal	X-22440-B2A	037036
TCLE, LCLE	1/2 to 1	1/2	1	3/4	1/2	1/2	1	External	X-22440-B2B	037037
TCL, LCL	1 to 2	1	2	1-1/2	1	1	2	Internal	X-22440-B3A	037038
TCLE, LCLE	1 to 2	1	2	1-1/2	1	1	2	External	X-22440-B3B	037039
TCL, LCL	2 to 3	2	3	2-1/2	2	2	3	Internal	X-22440-B4A	037040
TCLE, LCLE	2 to 3	2	3	2-1/2	2	2	3	External	X-22440-B4B	037041
TCLE, LCLE	3 to 5	3	4	3-1/2	3	3	5	External	X-22440-B5B	037043
TCLE, LCLE	4 to 7-1/2	4	7-1/2	5-1/2	4-1/2	4-1/2	7-1/2	External	X-22440-B6B	037045
TCLE, LCLE	6-1/2 to 10	6-1/2	10	7-1/2	7	7	10	External	X-22440-B7B	037047
TCLE, LCLE	7-1/2 to 12	7-1/2	12	9	8	8	12	External	X-22440-B8B	037049

LCL SERIES FLANGES

VALVE SERIES	CONFIGURATION	INLET CONNECTION	OUTLET CONNECTION	MODEL NUMBER	ITEM NUMBER
LCL,LCLE	Angle	3/8" SAE	1/2" SAE	C-500-4	056932
LCL,LCLE	Angle	3/8" SAE	5/8" SAE	C-500-5	057153
LCL,LCLE	Angle	1/2" SAE	5/8" SAE	C-500-6	056294
LCL,LCLE	Angle	3/8" ODF	1/2" ODF	C-501-4	065527
LCL,LCLE	Angle	3/8" ODF	5/8" ODF	C-501-5	065748
LCL,LCLE	Angle	1/2" ODF	5/8" ODF	C-501-7	065861
LCL,LCLE	Angle	5/8" ODF or 7/8" ODM	7/8" ODF or 1-1/8" ODM	A-576	027764
LCL,LCLE	Straight Thru	3/8" SAE	1/2" SAE	X-6669-4	051176
LCL,LCLE	Straight Thru	3/8" SAE	5/8" SAE	X-6669-1	050563
LCL,LCLE	Straight Thru	1/2" SAE	1/2" SAE	X-6669-5	083378
LCL,LCLE	Straight Thru	1/2" SAE	5/8" SAE	X-6669-2	050842
LCL,LCLE	Straight Thru	3/8" ODF	1/2" ODF	9761-5	027769
LCL,LCLE	Straight Thru	3/8" ODF	5/8" ODF	9761-3	027771
LCL,LCLE	Straight Thru	1/2" ODF	1/2" ODF	9761-9	027766
LCL,LCLE	Straight Thru	1/2" ODF	5/8" ODF	9761-4	027268
LCL,LCLE	Straight Thru	1/2" ODF	7/8" ODF	9761-2	027770
LCL,LCLE	Straight Thru	5/8" ODF	5/8" ODF	X-6346-16	044733
LCL,LCLE	Straight Thru	5/8" ODF	7/8" ODF	X-6346-17	044846
LCL,LCLE	Straight Thru	5/8" ODF	1-1/8" ODF	X-6346-18	094038
LCL,LCLE	Straight Thru	7/8" ODF	1-1/8" ODF	X-6346-34	071757

THERMOSTATIC EXPANSION VALVES

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LCL SERIES POWER ASSEMBLY MODEL NOMENCLATURE - Example: XB-1019A-1A

PRINT REFERENCE	CHARGE CODE	CAPILLARY TUBE LENGTH	EQUALIZER
XB-1019	A	1	A
XB-1019 = Drawing Number	A B C See LCL Series Charge Code Table for Suction Gas Temperature by Gas Type	1 = 5 Ft.	A = Internal B = External

LCL SERIES POWER ASSEMBLIES

PRINT REFERENCE	CHARGE CODE	CAPILLARY TUBE	EQUALIZER	MODEL NUMBER	ITEM NUMBER
XB-1019	A	5 Ft.	Internal	XB-1019A-1A	037389
XB-1019	A	5 Ft.	External	XB-1019A-1B	034803
XB-1019	B	5 Ft.	External	XB-1019B-1B	032207
XB-1019	C	5 Ft.	External	XB-1019C-1B	035162

REPLACEMENT GASKET SET

MODEL NUMBER	ITEM NUMBER
X-13455-1	027579

Gasket Set includes necessary body flange gasket & seat gasket.