

LA(E) Series – DeSuperheating

Thermal Expansion Valves

The LA(E) series is a desuperheating (Liquid Injection) valve used in conjunction with hot gas bypass to prevent excessive suction line superheat. LA(E) valves can be used for interstage cooling in compound systems.

Features

- Stainless steel power element eliminates corrosion and prevents valve failure
- May operate at superheat settings in excess of 20°F allowing the valve to perform in desuperheating applications



Options

- External superheat adjustment
- SAE or ODF connections
- External or internal equalizer
- Wrench flats on inlets and outlets (SAE only)
- Replaceable inlet strainer (SAE only)

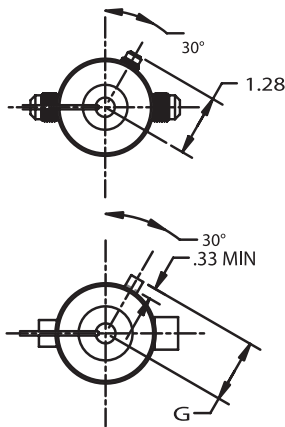
Specifications

- Maximum working pressure: 500 psig

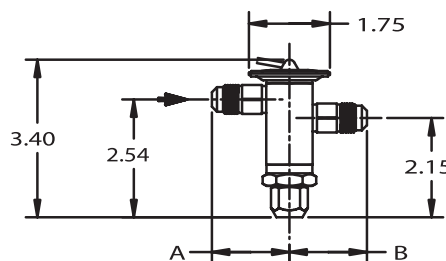
Nomenclature example: LAES 2 CL 5 FT 3/8 x 1/2 ODF S/T

LA	E	S	2	C	L	5 FT	3/8 x 1/2	ODF	S/T
Valve Series De-Superheating Liquid Injection	Equalizer E=External (Omit for Internal)	Connection Type S = solder (Omit for flare)	Capacity NOTE: This is not system capacity (Contact Application Engineering for sizing)	Refrigerant Code	Charge Code L = liquid injection (See hot gas bypass charts for valve selection)	Capillary Tube Length 5 FT (std)	Inlet x Outlet Connection Sizes (See tables below)	Connection Type ODF=solder SAE=flare	Configuration S/T = straight-thru (Only)

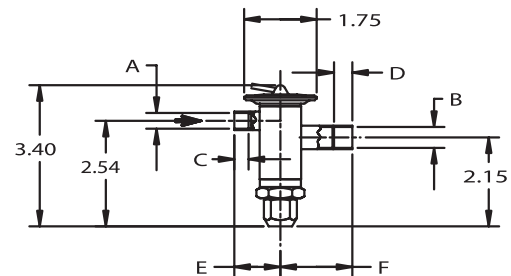
Dimensional Data (in)



SAE Connections



ODF Connections



External Equalizer Fitting

Type	I.D.	G	Socket Depth
1/4 SAE	-	1.28	-
1/4 ODF	0.25	1.41	0.33

SAE

Connection Size		A MIN	B MIN
Inlet	Outlet		
1/4 SAE	3/8 SAE	1.50	1.64
3/8 SAE	3/8 SAE	1.64	1.64
3/8 SAE	1/2 SAE	1.64	1.72
1/4 SAE	1/2 SAE	1.50	1.72
1/4 SAE	5/8 SAE	1.50	1.98
3/8 SAE	5/8 SAE	1.64	1.98

ODF

Connection Size		A	B	C MIN	D MIN	E	F	G Equalizer	
Inlet	Outlet							1/4 ODF	SAE
1/4 ODF	3/8 ODF	0.25	0.38	0.32	0.32	1.70	1.73	1.28	1.41
3/8 ODF	1/2 ODF	0.38	0.50	0.32	0.38	1.73	1.73		
1/2 ODF	5/8 ODF	0.50	0.63	0.38	0.50	1.73	1.73		
1/4 ODF	3/8 ODF	0.25	0.38	0.32	0.32	1.70	1.73		
3/8 ODF	3/8 ODF	0.38	0.38	0.32	0.32	1.73	1.73		
3/8 ODF	1/2 ODF	0.38	0.50	0.32	0.38	1.73	1.73		
1/2 ODF	1/2 ODF	0.50	0.50	0.38	0.38	1.73	1.73		
1/2 ODF	5/8 ODF	0.50	0.63	0.38	0.50	1.73	1.75		
3/8 ODF	5/8 ODF	0.38	0.63	0.32	0.38	1.73	1.75		
1/2 ODF	7/8 ODF	0.50	0.88	0.38	0.75	1.73	1.73		