

The ACP is designed for small cooling units where the heat load is reasonably constant. The ACP is ideal for room air conditioners, domestic refrigerators, drink dispensers, food dispensers, ice cream cabinets, bottle coolers, home freezers, ice cube makers, ice cream freezers, and milk coolers.

Features

- Friction-free floating design
- Can be used as a small capacity hot gas bypass valve
- Fully adjustable from 0-80 psig (factory setting 40 psig)
- Wrench flats on inlets and outlets



Options

- Internal or external equalizer
- SAE or ODF connections

Specifications

- Maximum working pressure: 500 psig
- Maximum working temperature: 300°F
- UL/CUL file number: SA5312

Nomenclature example: ACPE 6 SAE EE 1/4 x 3/8 ODF ANG

ACP	E	6	SAE EE	1/4 x 3/8	ODF	ANG
Valve Series	Equalizer E=External (optional)	Port Size (diameter) see table below	External Equalizer Type	Inlet x Outlet Connection Sizes	Connection Type ODF or SAE	Body Style ANG = Angle S/T = Straight-thru

Ordering Information

PCN	Description	PCN	Description
046838	ACP 1 IE 1/4 x 3/8-1/2 SAE ANG	049204	ACP 5 IE 3/8 X 3/8-1/2 SAE ANG
047652	ACP 6 IE 1/4 x 3/8 ODF ANG	047653	ACP 6 IE 1/4 x 3/8 SAE ANG
047680	ACP 1 IE 1/4 x 3/8 ODF ANG	057233	ACP 1 IE 1/4 x 3/8 ODF S/T
056240	ACP 1 IE 1/4 X 3/8 SAE ANG	065922	ACP 6 IE 3/8 x 3/8 ODF ANG
046839	ACP 2 IE 1/4 X 3/8 SAE ANG	047654	ACP 7 IE 3/8 x 1/2 ODF ANG
047651	ACP 2 IE 1/4 x 3/8 ODF ANG	047285	ACP 7 IE 3/8 x 3/8-1/2 SAE ANG
047283	ACP 3 IE 1/4 X 3/8 ODF ANG	047655	ACP 8 IE 3/8 x 1/2 ODF ANG
046840	ACP 3 IE 1/4 x 3/8 SAE ANG	047657	ACP 9 IE 3/8 X 1/2 ODF ANG
047105	ACP 4 IE 1/4 x 3/8 ODF ANG	057209	ACP 9 IE 3/8 X 3/8 ODF ANG
047101	ACP 4 IE 1/4 X 3/8 SAE ANG	057771	ACP 9 IE 1/2 x 5/8 ODF ANG
047284	ACP 5 IE 1/4 x 3/8 ODF ANG	052773	ACP 9 IE 1/4 X 3/8 ODF ANG
047332	ACP 5 IE 1/4 X 3/8 SAE ANG	047658	ACP 9 IE 3/8 x 3/8-1/2 SAE ANG
053374	ACP 5 IE 3/8 x 3/8 ODF ANG	057327	ACP 9 IE 3/8 X 3/8 SAE S/T
		047280	ACPE 1 SAE EE 1/4 x 3/8 SAE S/T
		053231	ACPE 1 SAE EE 1/4 x 3/8 ODF ANG
		047790	ACPE 7 SAE EE 3/8 x 1/2 ODF ANG
		048657	ACPE 9 SAE EE 3/8 x 1/2 ODF S/T
		058674	ACPE 9 SAE EE 1/2 x 5/8 ODF S/T
		057017	ACPE 9 ODF EE 3/8 x 1/2 ODF ANG

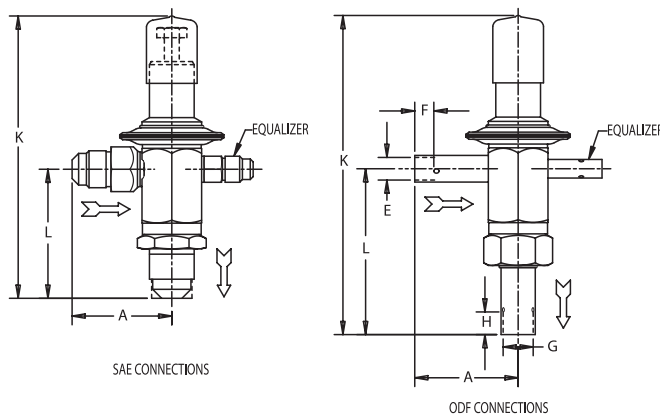
ACP(E)- Nominal * Capacity Table in Tons

Valve	Port Diameter (in)	R-12/R-134a	R-407C/R-22	R-502/ R-404A/R-507
		Pressure Drop Across Valve – PSI		
		60	100	100
ACP(E)1	0.05	0.31	0.44	0.29
ACP(E)2	0.06	0.41	0.57	0.38
ACP(E)3	0.10	0.65	0.91	0.61
ACP(E)4	0.11	0.90	1.30	0.87
ACP(E)5	0.13	1.40	1.96	1.31
ACP(E)6	0.14	1.90	2.67	1.78
ACP(E)7	0.17	2.30	3.28	2.19
ACP(E)8	0.20	2.70	3.75	2.50
ACP(E)9	0.23	3.80	5.32	3.55

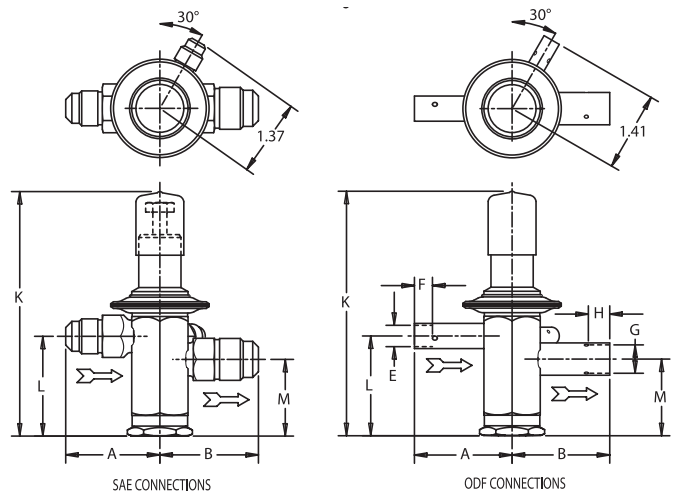
*All capacities shown are at 100°F Condensing, 40°F Evaporator Temperature, with a solid column of liquid at the valve inlet.

ACP Dimensional Data

ACP Angle



ACP Straight-Thru



Dimensional Data (in)

ACP(E) Valve Type	Inlet	Outlet	A	B	E DIA.	F MIN.	G DIA.	H MIN.	K	L
Angle	1/4	3/8	1.50	—	—	—	—	—	4.50	2.13
	3/8	3/8	1.64							
	1/2	3/8 - 1/2	1.72							
	1/4	3/8 - 1/2	1.50							
SAE	3/8	5/8	1.64	—	—	—	—	—	4.61	2.23
	1/2	5/8	1.72							
	1/4	3/8	1.25							
	3/8	3/8	1.19							
Angle ODF	1/2	1/2	1.19	—	0.25	0.32	0.37	0.32	4.55	2.17
	5/8	5/8	1.38		0.37	0.32	0.50	0.38	4.55	2.17
	1/4	5/8	1.25		0.50	0.38	0.62	0.50	4.73	2.36
	3/8	5/8	1.19		0.62	0.50	0.62	0.50	4.73	2.36
	1/4	5/8	1.25		0.25	0.32	0.62	0.50	4.73	2.36
	3/8	5/8	1.19		0.25	0.32	0.62	0.50	4.73	2.36
	1/4	1/2	1.25		0.37	0.32	0.62	0.50	4.73	2.36
	1/2	1/2	1.19		0.37	0.32	0.62	0.50	4.73	2.36
	5/8	5/8	1.38		0.25	0.32	0.62	0.50	4.73	2.36
	1/4	1/2	1.25		0.25	0.32	0.50	0.38	4.55	2.17
	3/8	1/2	1.19		0.25	0.32	0.50	0.38	4.55	2.17
	1/2	7/8	1.19		0.50	0.38	0.87	0.75	5.11	2.73

ACP(E) Valve Type	Inlet	Outlet	A	B	E DIA.	F MIN.	G DIA.	H MIN.	K	L	M
Straight-Thru SAE	1/4	3/8	1.50	1.64	—	—	—	—	4.25	1.88	1.48
	3/8	3/8	1.64	1.64							
	1/2	1/2	1.72	1.72							
	1/4	5/8	1.50	1.98							
	3/8	5/8	1.64	1.98							
	1/2	5/8	1.72	1.98							
Straight-Thru ODF	1/4	3/8	1.25	1.19	0.25	0.32	0.37	0.32	4.25	1.88	1.48
	3/8	3/8	1.19	1.19	0.37	0.32	0.50	0.38			
	1/2	1/2	1.19	1.19	0.50	0.38	0.62	0.50			
	5/8	5/8	1.38	1.38	0.62	0.50	0.62	0.50			
	1/4	5/8	1.25	1.38	0.25	0.32	0.62	0.50			
	3/8	5/8	1.19	1.38	0.25	0.32	0.62	0.50			
	1/4	1/2	1.25	1.19	0.37	0.32	0.62	0.50			
	1/2	1/2	1.19	1.19	0.37	0.32	0.62	0.50			
	5/8	5/8	1.38	1.38	0.25	0.32	0.62	0.50			
	1/4	1/2	1.25	1.19	0.25	0.32	0.50	0.38			
	1/2	1/2	1.19	1.19	0.25	0.32	0.50	0.38			
	3/8	7/8	1.19	1.75	0.50	0.38	0.87	0.75			