

ACP (E) DIRECT ACTING, HOT GAS REGULATOR

Direct acting, hot gas bypass regulator is designed for small capacity systems.

FEATURES AND SPECIFICATIONS

- ☆ Small, compact size adapts to any installation
- ☆ Friction-free floating design
- ☆ Fully adjustable from 0-80 psig (factory setting 40 psig)
- ☆ Wrench flats on inlets and outlets
- ☆ SAE or ODF, Angle or straight-thru connections
- ☆ Internal or external equalizer
- ☆ Safe working pressure: 450 psig
- ☆ Safe working temperature: 300°F
- ☆ UL file number SA5312
- ☆ CSA file number LR44005
- ☆ CRN file number OC0824.9 (see page A)



See below for capacities and ordering information

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	External Equalizer (optional)	Port Size (diameter)	External Equalizer Type	Inlet Connection Size		Outlet Connection Size	Connection Type ODF or SAE	Body Style ANG = Angle S/T = Straight-thru

ACP (E) DIRECT ACTING, HOT GAS REGULATOR

Direct acting, hot gas bypass regulator is designed for small capacity systems.

HOT GAS BYPASS NOMINAL CAPACITY TABLE IN TONS (kW)

VALVE	PORT DIA. (inches)	R-12	R-134a	R-22	R-407C	R-507/404A	R-502
ACP(E)-1	.047	0.05 (0.17)	0.07 (0.24)	0.09 (0.31)	0.09 (0.31)	0.09 (0.31)	0.08 (0.28)
ACP(E)-2	.059	0.07 (0.24)	0.09 (0.31)	0.12 (0.42)	0.12 (0.42)	0.11 (0.38)	0.11 (0.38)
ACP(E)-3	.101	0.12 (0.42)	0.16 (0.56)	0.22 (0.76)	0.22 (0.76)	0.20 (0.69)	0.20 (0.69)
ACP(E)-4	.113	0.18 (0.62)	0.23 (0.80)	0.32 (1.11)	0.32 (1.11)	0.28 (0.97)	0.29 (1.01)
ACP(E)-5	.125	0.28 (0.97)	0.37 (1.28)	0.50 (1.74)	0.50 (1.74)	0.45 (1.56)	0.45 (1.56)
ACP(E)-6	.140	0.38 (1.32)	0.50 (1.74)	0.69 (2.39)	0.69 (2.39)	0.60 (2.08)	0.63 (2.19)
ACP(E)-7	.169	0.55 (1.91)	0.71 (2.46)	0.98 (3.40)	0.98 (3.40)	0.90 (3.12)	0.89 (3.09)
ACP(E)-8	.196	0.65 (2.26)	0.84 (2.91)	1.20 (4.16)	1.20 (4.16)	1.00 (3.47)	1.00 (3.47)
ACP(E)-9	.228	0.75 (2.60)	0.98 (3.40)	1.40 (4.86)	1.40 (4.86)	1.20 (4.16)	1.20 (4.16)

All capacities shown are at 40°F Evaporator Temperature, 100°F Condensing temperature, Valve Full Open, Compressor Discharge Temperature is 50°F higher than Isentropic Compression and 25°F Superheat at the compressor inlet.

The R-12, R-134a capacities $\Delta P = 80$ psi (560 kPa)
 The R-22, R-407C capacities $\Delta P = 125$ psi (875 kPa)
 The R-404A, R-507, R-502 capacities $\Delta P = 135$ psi (945 kPa)

For conditions other than nominal, divide required capacity by the appropriate multiplier found on page 70.

ORDERING INFORMATION

PCN	DESCRIPTION
046838	ACP 1 IE 1/4 x 3/8-1/2 SAE ANG
057233	ACP 1 IE 1/4 x 3/8 ODF S/T
047680	ACP 1 IE 1/4 x 3/8 ODF S/T
047651	ACP 2 IE 1/4 x 3/8 ODF ANG
046840	ACP 3 IE 1/4 x 3/8 SAE ANG
047105	ACP 4 IE 1/4 x 3/8 ODF ANG
047284	ACP 5 IE 1/4 x 3/8 ODF ANG
053374	ACP 5 IE 3/8 x 3/8 ODF ANG
047653	ACP 6 IE 1/4 x 3/8 SAE ANG
047654	ACP 7 IE 3/8 x 1/2 ODF ANG
047285	ACP 7 IE 3/8 x 3/8-1/2 SAE ANG
047655	ACP 8 IE 3/8 x 1/2 ODF ANG
057771	ACP 9 IE 1/2 x 5/8 ODF ANG
047658	ACP 9 IE 3/8 x 3/8-1/2 SAE ANG
047280	ACPE 1 SAE EE 1/4 x 3/8 SAE S/T
047790	ACPE 7 SAE EE 3/8 x 1/2 ODF ANG
047657	ACP 9 IE 3/8 x 1/2 ODF ANG
058674	ACPE 9 SAE EE 1/2 x 5/8 ODF S/T