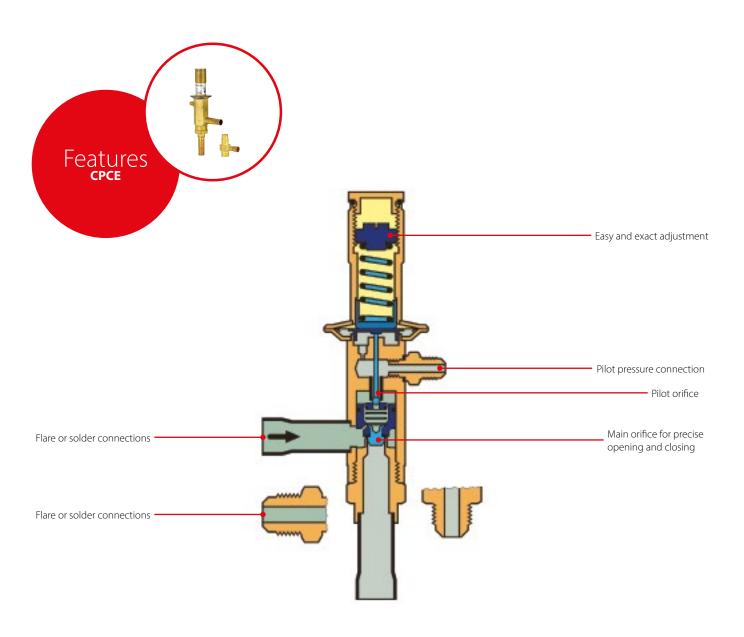
## CPCE, Hot gas bypass regulator / LG, Liquid gas mixer (accessory)

CPCE hot gas bypass regulators adapt compressor capacity to actual evaporator load, and are designed for installation in a bypass line between the low and high pressure sides of the refrigeration system, for hot gas injection between evaporator and thermo-static expansion valve.

Injection is through an LG liquid-gas mixer.



### **Facts**

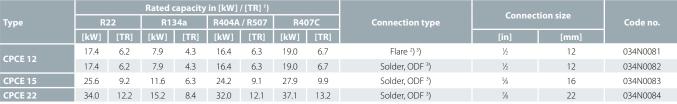
#### Application:

- · Traditional refrigeration
- Air conditioning units
- · Commercial refrigeration
- Compressed air dryers
- Transport refrigeration
- Prevents high suction superheats by combining hot gas injection with expansion valve characteristics
- Can also protect against too low an evaporating temperature, i.e. to prevent evaporator icing
- LG Liquid-gax mixer can be used for hot gas defrosting or reverse cycle systems
- Superior control accuracy
- The regulator increases evaporator gas velocity thus ensuring better oil return to compressor
- Direct connection to system suction line regulates hot gas injection independent of evaporator pressure drop
- LG Liquid-gax mixer provides homogenous mixing of the liquid and hot gas refrigerant injected into the evaporator
- Applicable to R22, R1234ze \*), R1270 \*), R134a, R290 \*), R404A, R407A, R407C, R407F, R448A, R449A, R450A, R452A, R507A, R513A, R600 \*), R600a \*)
  - \*) only LG 12 16 and LG 16 22
- May be used in the following EX range: Category 3 (Zone 2)
- · Max. working pressure: PS / MWP = 28 bar / 406 psig

# **Technical data and ordering**

## **CPCE - Hot gas bypass regulator**

Ordering



<sup>1)</sup> Rated capacity is the capacity of the regulator at:

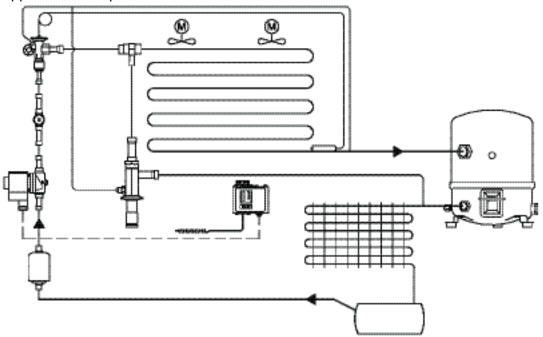
- Evaporating temperature  $t_e = -10 \,^{\circ}\text{C}/14 \,^{\circ}\text{F}$  Condensing temperature  $t_c = 30 \,^{\circ}\text{C}/100 \,^{\circ}\text{F}$
- Reduction of suction temperature / pressure  $\Delta t_s = CPCE$ : 4 K

## **LG** - Liquid-gas mixer (accessory)

Ordering

Туре	Connection						
	Expansion valve Solder, ODM		Hot gas Solder, ODF		Liquid distributor Solder, ODF		Code no.
	[in]	[mm]	[in]	[mm]	[in]	[mm]	
LG 12 – LG 16	5/8	16	1/2	12	5/8	16	069G4001
LG 12 – LG 22	7/8	22	1/2	12	7/8	22	069G4002
LG 16 – LG 28	1 1/8	28	5/8	16	1 1/8	28	069G4003
LG 22 – LG 35	1 ¾	35	7/8	22	1 ¾	35	069G4004

## Application example



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