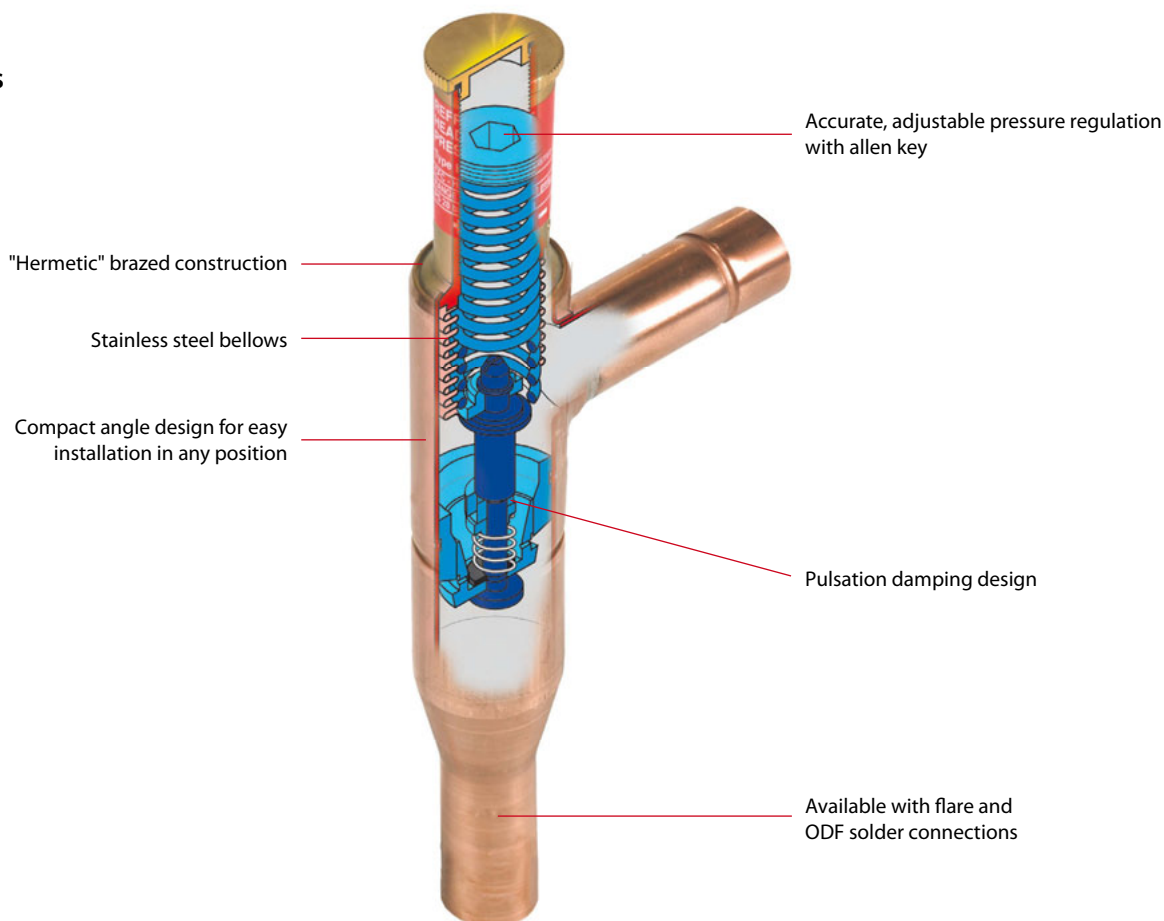




KVC – Capacity regulators

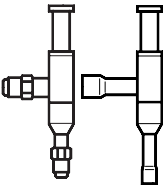
KVC is a capacity regulator used for the adaption of the compressor capacity to the actual evaporator load. Placed in a bypass between high- and low pressure sides of the refrigeration system, KVC imposes a lower limit on the compressor suction pressure by supplying the low pressure side with replacement capacity in the form of hot gas/cool gas from the high pressure side.

Features



Applications	Advantages	Facts
<ul style="list-style-type: none"> Traditional refrigeration Air conditioning units Transport refrigeration Commercial refrigeration Compressed air driers 	<ul style="list-style-type: none"> KVC regulations is only dependent upon the outlet pressure. Pressure variations on the inlet side of the regulator do not affect the degree of opening since KVC is equipped with an equalization bellows. The regulator is also equipped with an effective damping device against pulsations which can normally arise in a refrigeration plant. Compact angle design for easy installation 	<ul style="list-style-type: none"> Wide capacity and operating range Regulation range: 0.2 to 6 bar Maximum working pressure PS = 28 bar For use with HCFC and HFC refrigerants Medium temperature: - 45 up to 130 °C

Technical data and ordering



Capacity regulators

Type	Rated capacity in kW ⁴⁾				Flare connection ^{1) 2)}		Code no.	Solder connection ²⁾		Code no.
	R22	R134a	R404A/R507	R407C	in.	mm		in.	mm	
KVC 12 ³⁾	7.6	4.8	6.9	8.4	½	12	034L0141	½	-	034L0143
					-	-	-	-	12	034L0146
KVC 15 ³⁾	14.9	9.4	13.6	16.4	5/8	16	034L0142	5/8	16	034L0147
KVC 22 ³⁾	19.1	12.0	17.4	21.0	-	-	-	7/8	22	034L0144

¹⁾ Supplied without flare nuts. Separate flare nuts can be supplied: ½ in./12 mm, code no. **011L1103**, 5/8 in./16 mm, code no. **011L1167**.

²⁾ The connection dimensions chosen must not be too small, since gas velocities in excess of 40 m/s at the inlet of the regulator can give flow noise.

³⁾ If the discharge temperature becomes too high in relation to the compressor specification, the installation of an injection valve in a bypass between liquid line and compressor suction line is recommended.

⁴⁾ Rated capacity is the capacity of the regulator at:

- Evaporating temperature t_e = -10 °C,
- Condensing temperature t_c = +25 °C

