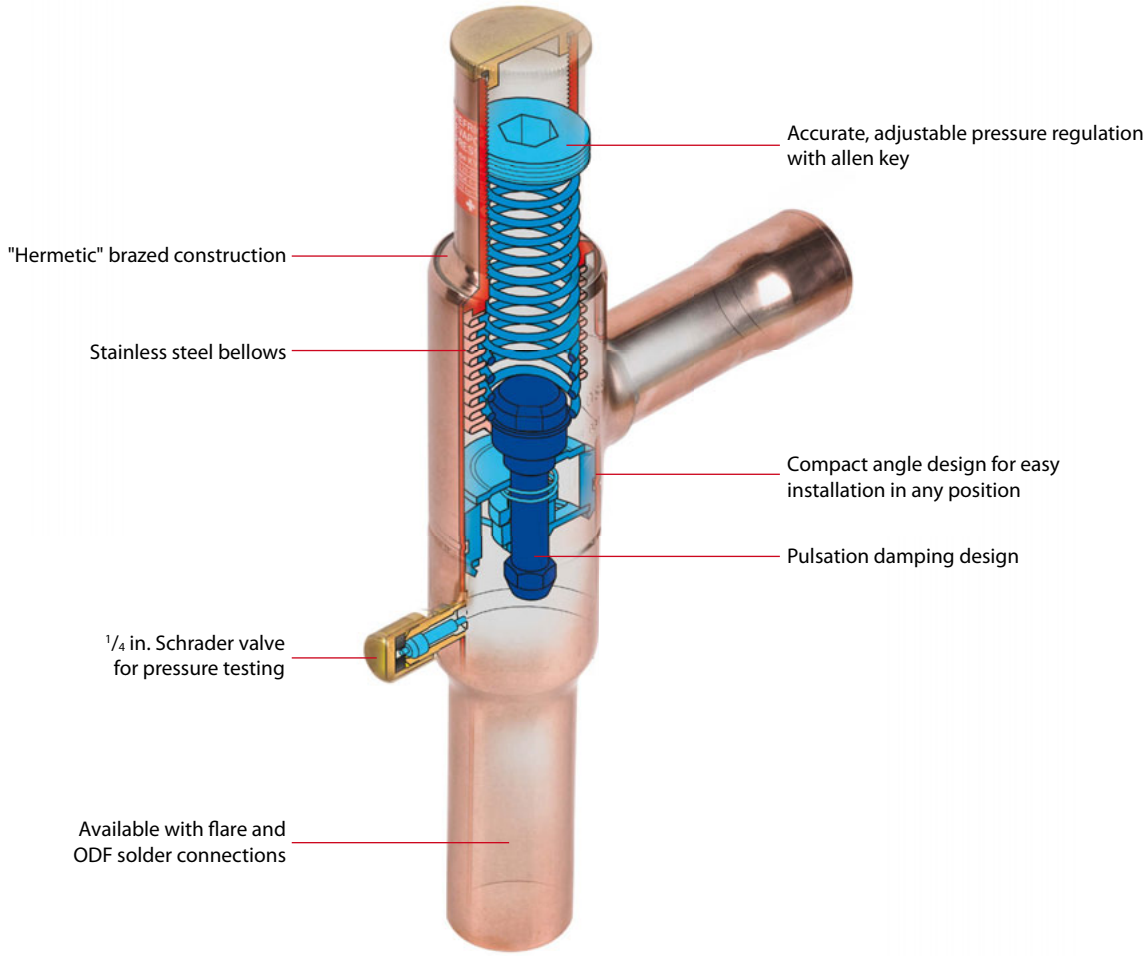
KVP – Evaporator pressure regulators

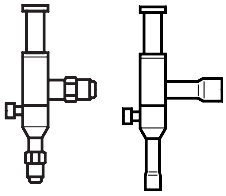
The KVP is mounted in the suction line after the evaporator and is maintaining a constant evaporating pressure and thereby a constant surface temperature on the evaporator. The regulation is modulating. By throttling in the suction line, the amount of refrigerant gas is matched to the evaporator load.

Features



Applications	Advantages	Facts
· Traditional refrigeration · Air conditioning units · Transport refrigeration	· The KVP can be used to differentiate the evaporating pressures in two or more evaporators in systems with one compressor. · Protection against a too low evaporating pressure. The regulator closes when the pressure in the evaporator falls below the set value.	· Wide capacity and operating range · Regulation range: 0 to 5.5 bar · For use with HCFC and HFC refrigerants · Maximum working pressure PS = 18 bar

Technical data and ordering



Evaporator pressure regulator

Type	Rated capacity in kW [1]				Flare connection [2] [3]		Code no. [4]	Solder, ODF connection [3]		Code no.
	R22	R134a	R404A/R507	R407C	in.	mm		in.	mm	
KVP 12	4.0	2.8	3.6	3.7	½	12	034L0021	½	-	034L0023
					-	-	-	-	12	034L0028
KVP 15	4.0	2.8	3.6	3.7	⅝	16	034L0022	⅝	16	034L0029
KVP 22	4.0	2.8	3.6	3.7	-	-	-	⅞	22	034L0025
KVP 28	8.6	6.1	7.7	7.9	-	-	-	1⅛		034L0026
					-	-	-	-	28	034L0031
KVP 35	8.6	6.1	7.7	7.9	-	-	-	1⅜	35	034L0032

[1] Rated capacity is the capacity of the regulator at
– Evaporating temperature t_e = –10 °C,
– Condensing temperature t_c = +25 °C
– Pressure drop in regulator Δp = 0.2 bar, offset = 0.6 bar

[2] Supplied without flare nuts. Separate flare nuts can be supplied: ½ in./12 mm, code no. **011L1103**, ⅝ in./16 mm, code no. **011L1167**.

[3] 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.