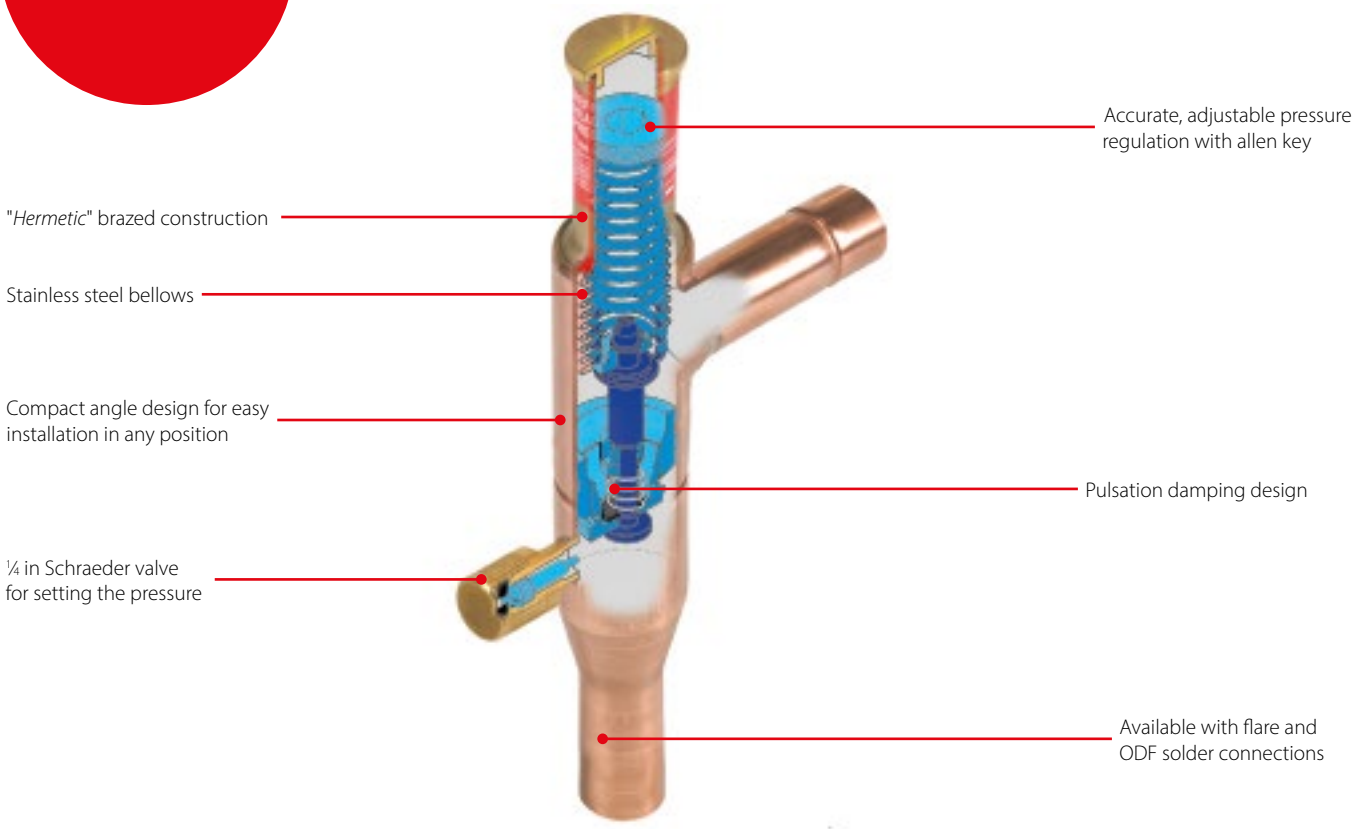
KVD, Receiver pressure regulator

KVD receiver pressure regulators open on falling receiver pressure and bypasses hot gas to maintain the receiver pressure at the regulator setting (adjustable).

KVD and KVR form a regulating system, used to maintain constant and adequately high condensing and receiver pressure in plant with heat-recovery, and in refrigeration and air conditioning plant with air-cooled condensers.



Facts

Application:
- Traditional refrigeration
- Air conditioning units
- Commercial refrigeration

- The regulator is equipped with an effective damping device against pulsations which can normally arise in a refrigeration plant
- KVD 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 KVD is equipped with an equalization bellows

- Wide capacity and operating range
- Regulation range:
  3 – 20 bar / 44 – 290 psig
- Max. working pressure
  PS MWP = 28 bar / 406 psig
- Can be used as a relief valve from high pressure to suction side
- Applicable to R22, R1270, R134a, R290, R404A, R407A, R407C, R407F, R448A, R449A, R450A, R452A, R507A, R513A, R600, R600a
- May be used in the following EX range: Category 3 (Zone 2)

Technical data and ordering

KVD - Receiver pressure regulator

Ordering

Type	K_v value [m^3/h] [1]	Connection type	Connection size		Code no.
			[in]	[mm]	
KVD 12	1.75	Flare [2] [3]	½	12	034L0171
	1.75	Solder, ODF [3]	½	–	034L0173
	1.75	Solder, ODF [3]	–	12	034L0176
KVD 15	1.75	Flare [2] [3]	⅝	16	034L0172
	1.75	Solder, ODF [3]	⅝	16	034L0177

[1] The K_v value is the flow of water in [m^3/h] at a pressure drop across valve of 1 bar, $\rho = 1000$ kg / m^3.
[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.

Application example