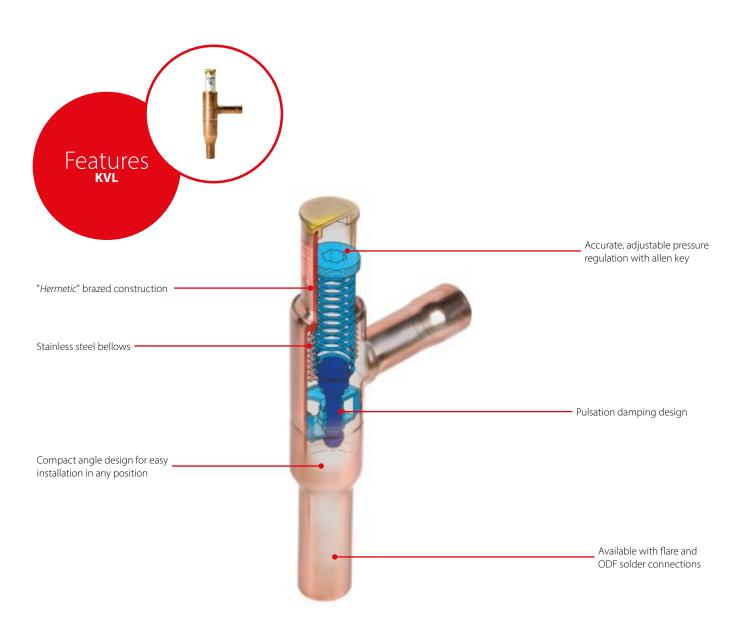
# KVL, Crankcase pressure regulator

KVL crankcase pressure regulators valves are installed in the suction line ahead of the compressor.

KVL protects the compressor motor against overload during start-up after long standstill periods or after defrost periods (high pressure in evaporator).



#### **Facts**

#### Application:

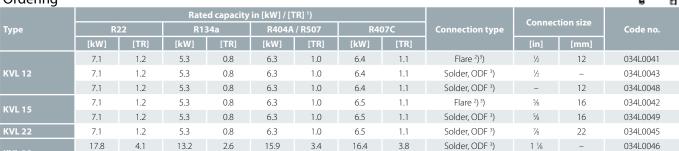
- Traditional refrigeration
- Air conditioning units
- Transport refrigeration

- Unaffected by ambient pressure variations
- Bellows welded to the body for long lifetime
- Accurate, adjustable pressure regulation
- Easy adjustment before start up
- Protects the compressor against electrical motor overloading
- Wide capacity and operating range
- Regulation range: 0.2 6 bar / 3 87 psig
- KVL 12 22: applicable to R22, R1270, R134a, R290, R404A, R407A, R407C, R407F, R448A, R449A, R450A, R452A, R507A, R513A, R600, R600a
- KVL 12 22: may be used in the following EX range: Category 3 (Zone 2)
- KVL 28 35: applicable to R22, R134a, R404A, R407A, R407C, R407F, R448A, R449A, R450A, R452A, R507A, R513A
- Maximum working pressure: PS / MWP = 18 bar / 261 psig

# **Technical data and ordering**

### **KVL - Crankcase pressure regulator**

## Ordering



16.4

16.4

3.8

3.8

Solder, ODF 3)

Solder, ODF 3)

3.4

3.4

17.8

- Evaporating temperature  $t_e$  = -10 °C / 14 °F Condensing temperature  $t_c$  = 25 °C / 100 °F
- Pressure drop in regulator  $\Delta p = 0.2 \text{ bar}/2 \text{ psi}$

2.6

2.6

15.9

15.9

To select the product for other conditions or refrigerants, use Danfoss Coolselector®2.

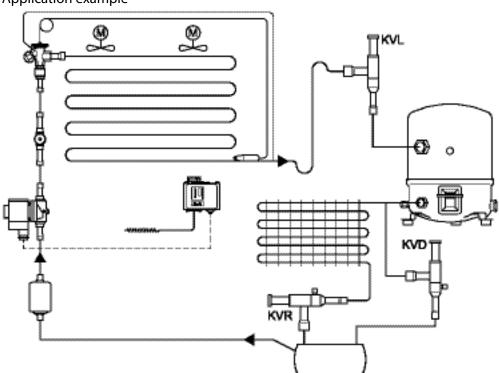
4.1

4.1

13.2

13.2

### Application example



01

02

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034L0051

034L0052

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<sup>17.8</sup> 1) Rated capacity is the capacity of the regulator at

<sup>&</sup>lt;sup>2</sup>) Supplied without flare nuts. Separate flare nuts can be supplied: ½ in / 12 mm - code no. 011L1103, ½ in / 16 mm - code no. 011L1167.

 $<sup>^3</sup>$ ) 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.