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ENGINEERING
TOMORROW

Danfoss

High Pressure Pumps

2/2-way **solenoid valves** for
oil return in **CO₂** sub- and
transcritical cooling system

**Up to
210 bar**

Reliability and
robustness - the key
in your system.

Product details



The Danfoss high-pressure solenoid valve is specially designed for operating in high-pressure and high-temperature applications and is therefore suitable for the oil return line in CO₂ transcritical cooling systems.

The valves are servo and pilot controlled ensuring reliability and robustness. The valves are made in corrosion resistant material.

- Working pressure range: 0.3 - 160 bar (4.3 - 2320 psi)
- Available as NC and NO
- Media temperature range: 2 - 90 °C (32 - 194 °F)
- Opening time down to 100 mS
- Stainless steel valve body
- Small foot print
- Reliable performance
- Robust design
- Low differential pressure

2/2 way high-pressure solenoid valve - Normally closed (NC - closed when de-energized)

Type	Code number	Connection	Seal material	Max. pressure	Rated flow
VDHT 1/4 E	180L0241	1/4 BSP	FKM	100 bar (1450 psi)	15 l/min (4 gpm)
VDHT 3/8 E	180L0092	3/8 BSP	FKM	160 bar (2320 psi)	30 l/min (8 gpm)
VDHT 1/4 E	180L0243	1/4 NPT	FKM	100 bar (1450 psi)	15 l/min (4 gpm)
VDHT 3/8 E	180L0127	3/8 NPT	FKM	210 bar (3000 psi)	30 l/min (8 gpm)

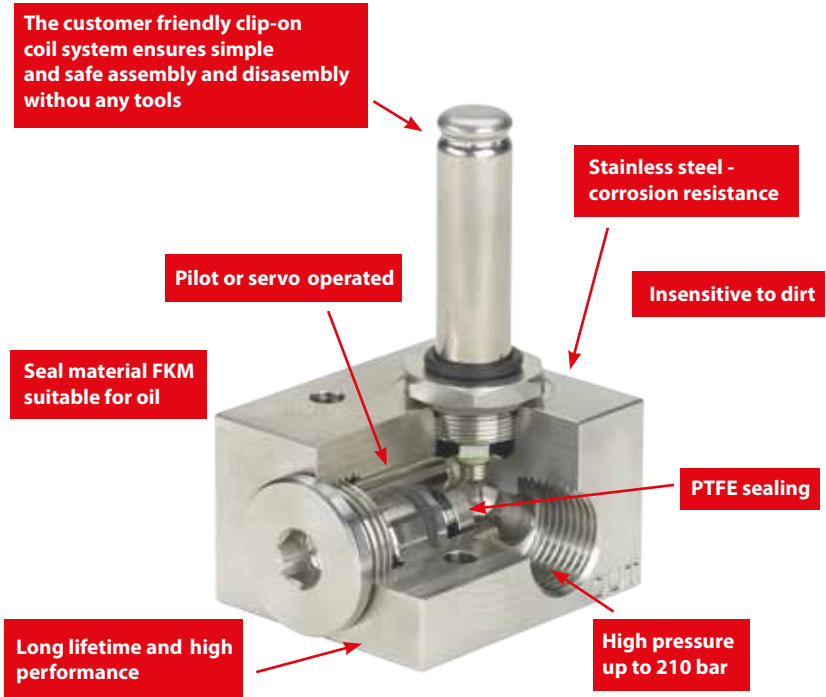
2/2 way high-pressure solenoid valve - Normally open (NO - open when de-energized)

VDHT 1/4 E	180L0242	1/4 BSP	FKM	100 bar (1450 psi)	15 l/min (4 gpm)
VDHT 3/8 E	180L0093	3/8 BSP	FKM	160 bar (2320 psi)	30 l/min (8 gpm)
VDHT 1/4 E	180L0244	1/4 NPT	FKM	100 bar (1450 psi)	15 l/min (4 gpm)
VDHT 3/8 E	180L0205	3/8 NPT	FKM	160 bar (2320 psi)	30 l/min (8 gpm)

The high-pressure solenoid valve and coil must be ordered separately to allow maximum flexibility, enabling to select a valve and coil combination to best suit your needs.

The VDHT high-pressure solenoid valves can be used together with the **Danfoss coils type BB, BE, BO, BY** as well as the **UL approved coils type BJ and BX**.

Benefit from outstanding features



The coil range goes from IP00 to IP67, offering optimum solutions.

Coils, type BE



Enclosure:

- IP67
- Ambient temperature:
 - Up to 80 °C (176 °F)

Coils, type BB



Enclosure:

- IP00 with spade connections
- IP20 with protective cap
- IP65 with cable plug
- Ambient temperature:
 - Up to 80 °C (176 °F)

Food retail transcritical booster system

A typical CO₂ transcritical booster system is divided into three pressure sections: High-pressure section, intermediate pressure section and low-pressure section. Controls for a transcritical system can be divided into four groups: Gas cooler controls, receiver controls, injection controls and compressor capacity controls.

