

ORV - the 3-way industrial valve

Oil Regulating Valve, type ORV for constant oil temperature control

Danfoss' 3-way ORV valve can help you to maintain a constant oil temperature in refrigerant compressor systems, by mixing hot and cold oil in the lubricating system of e.g. screw or turbo type compressors.

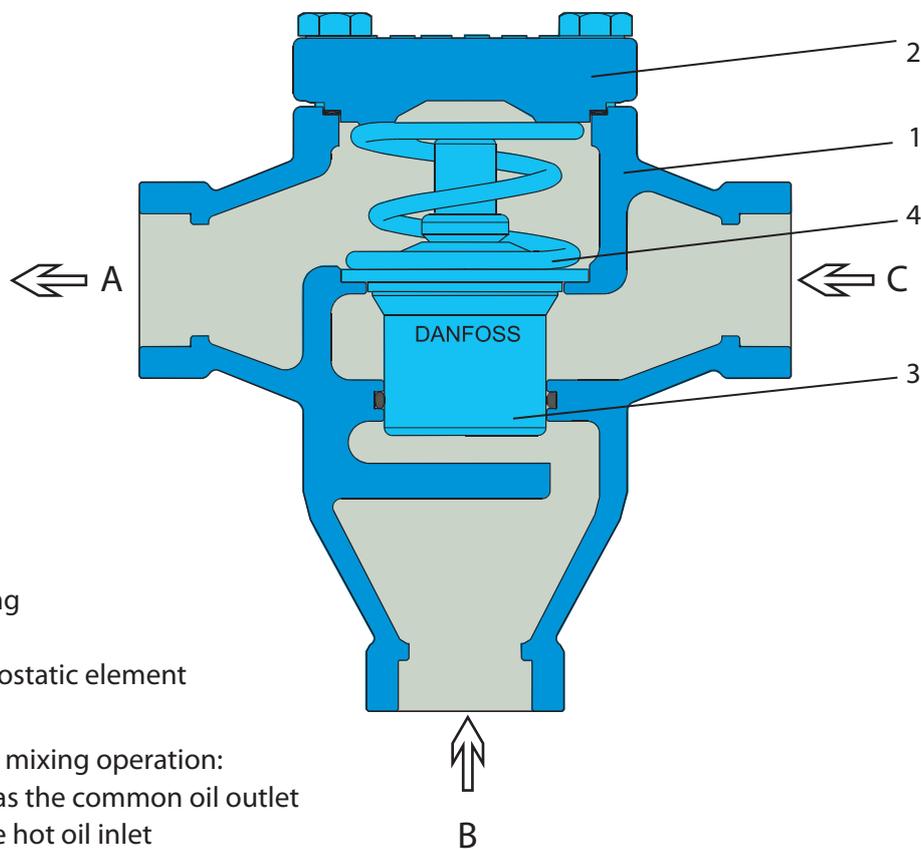
The ORV valve is a lightweight construction, with few components and direct coupled connections, for ease of installation and service.

The ORV valve features a bolted cover, which allows servicing of the ORV without interfering with the piping.

The ORV valve has a wide range of thermostatic elements to choose from. The temperature of the standard element is 49°C / 120°F.

Quality in detail

- Direct coupled connections with weld connections (DIN or ANSI) or Socket weld connections
- Stainless steel nickel plated thermostatic element
- Optimised flow characteristics
- No manual adjustment required
- Plug and Play design
- Sturdy construction
- High resistance against vibrations or shock
- Can be mounted in any position
- Service friendly. Easy to dismantle and service when required



1. Housing
2. Cover
3. Thermostatic element
4. Spring

When used for mixing operation:
 Port A is used as the common oil outlet
 Port B is for the hot oil inlet
 Port C is for the cold oil inlet

Other operation principles are also possible.

Available connection sizes:

Butt-weld DIN and ANSI connection:
 DN 25, 40, 50, 65 and 80

Socket weld connection:
 DN 25, 40 and 50

Pressure:

Recommended pressure drop:
 0.5 bar/7 psig

Max. working pressure:
 40 bar/580 psig

Temperature:

Standard temperature setting:
 49°C/120°F

Alternative temperature settings:

43°C / 110°F, 54°C / 130°F,
 60°C / 140°F, 66°C / 150°F,
 77°C / 170°F