

# Oil level regulator



**INT280 – Control at the highest technical level**



# Efficient and reliable oil management for refrigerant compressors



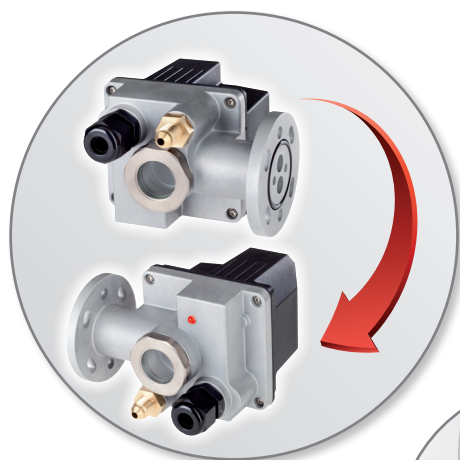
The INT280 oil level regulator complements KRIWAN's system solutions for efficient and reliable oil management in the refrigeration circuit.

The INT280 monitors and controls the oil level in the refrigerant compressors. The oil level regulator can be used both in multi-compressor packs with several compressors in parallel and for individual piston and scroll compressors. The special problem of oil throw-off in multi-compressor packs is solved by means of active oil supply from a shared oil reservoir.

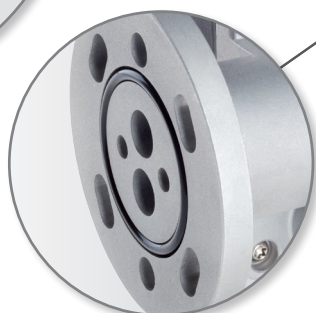
The INT280 oil level regulator's functional principle is optical-electronical. Integrated in the product are mechanics that include a sight glass, a solenoid valve, an optical measurement system, and an electronic evaluation unit.

## Key benefits at a glance:

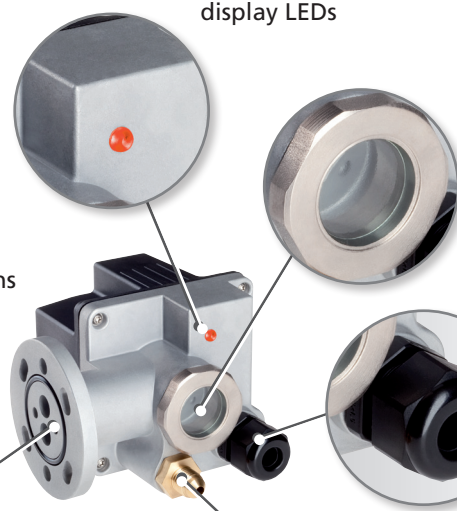
- Integrated overall concept inclusive solenoid valve
- Precise, optical oil level measurement
  - No moving parts
  - No measuring errors caused by oil viscosity
- Can be used in low- and high-pressure oil equalization systems
- Compact design – IP65 protection



- 180° reversible – 2 possible installation positions



- 3- and 4-hole flange



- Alarm and status display LEDs

- Sight glass for visual oil level checks

- Cable length: 1 m, 3 m, 5 m

- Oil connection: 7/16" – 20 UNF

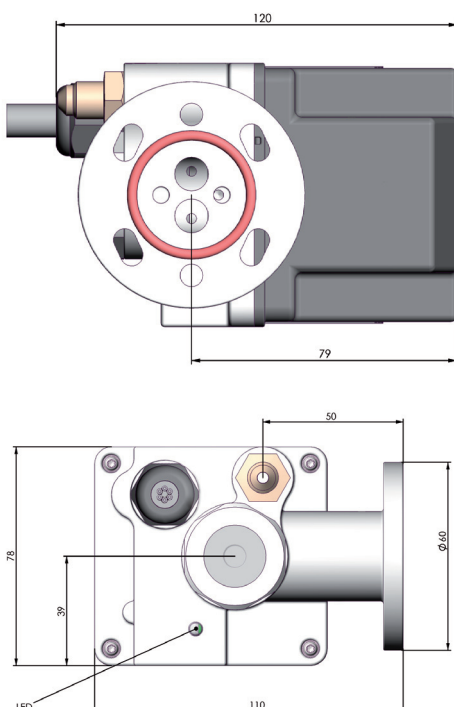
# Precise functions for active compressor protection



## Overview of technical specifications

Supply voltage	AC 24 V 50/60 Hz $\pm$ 10 %, 15 VA AC 115 V 50/60 Hz $\pm$ 10 %, 15 VA AC 230 V 50/60 Hz $\pm$ 10 %, 15 VA
Permissible ambient temperature	-30°... +60°C
Media temperature	-30°... +100°C
Operating pressure	-1... 46 bar
Differential pressure	1 to 25 bar (across valve)
Mechanical service life	approx. 10 <sup>6</sup> switching cycles
Cable length	1 m, 3 m, 5 m
Flange connection	3-/4-hole flange
Oil connection	7/16"-20 UNF

With its precise functions, the electronic oil level regulator provides an innovative contribution to active compressor protection and increases the reliability and efficiency of the refrigerating system.



## Simple principle of operation

When the oil level in the compressor falls below the specified level, the oil supply solenoid valve is activated. If the specified activation time is exceeded without an adequate oil level being detected, an alarm signal is generated and the alarm output is activated. While the alarm status is active, the electronics continues to operate the solenoid valve, in order to inject oil into the crankcase. The alarm status is only reset once the oil level has reached half the height of the sight glass.

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