

## Danfoss AS Solenoid Coil Installation Guide

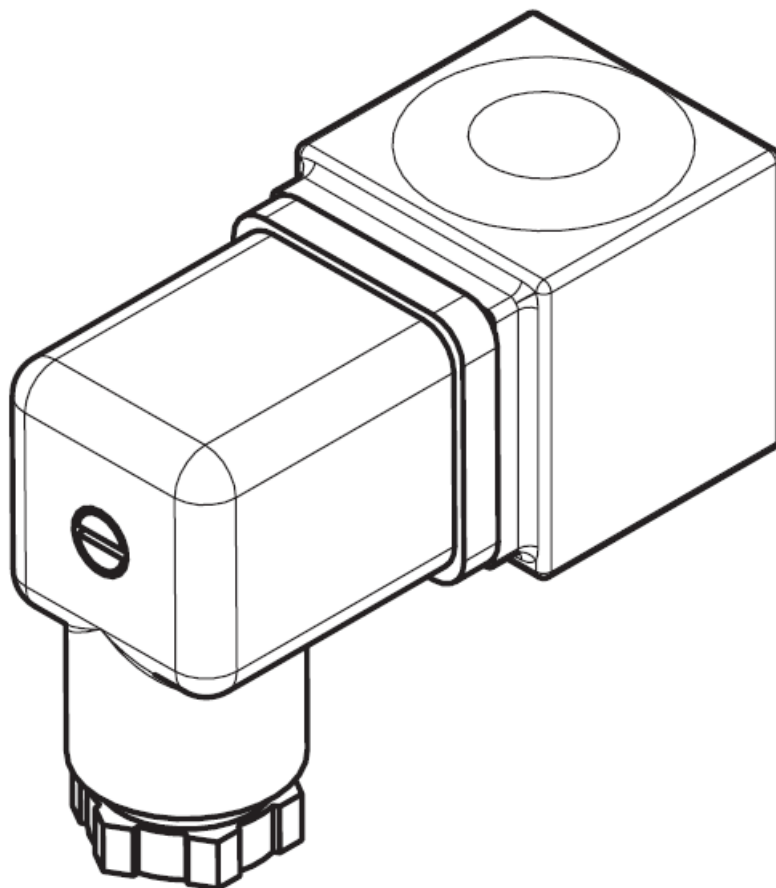
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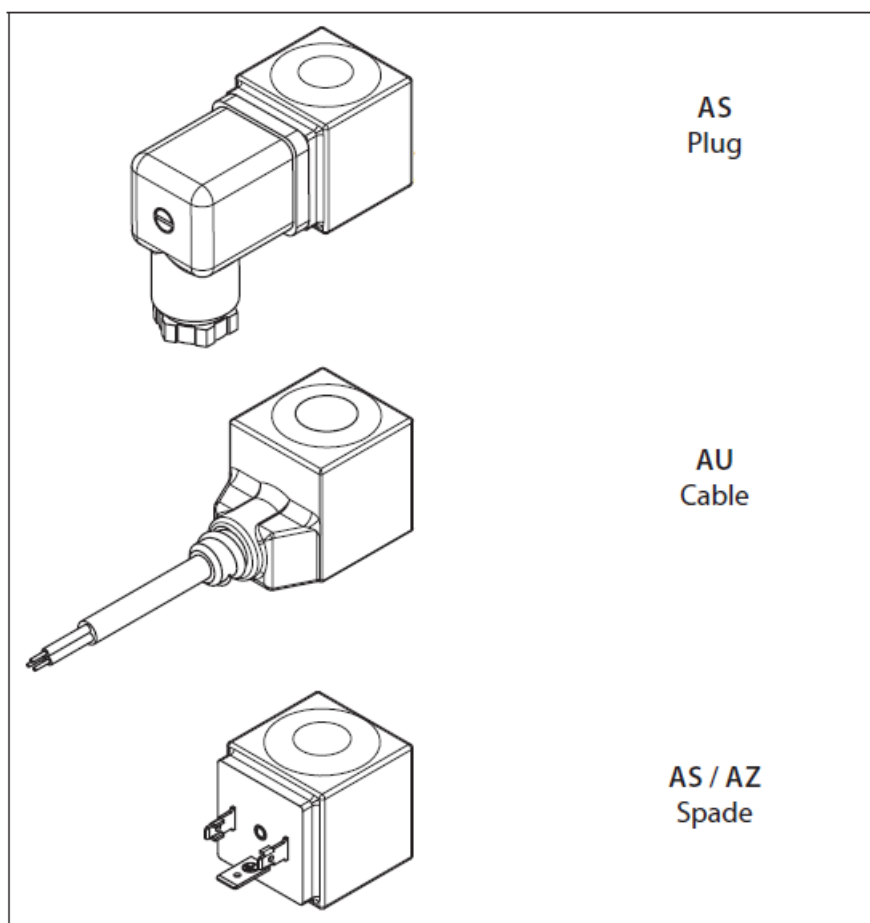
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**Danfoss AS Solenoid Coil**



## INSTRUCTIONS



<p>50 – 60 Ncm (0.39 – 0.44 lb-ft)</p> <p>40 – 50 Ncm (0.30 – 0.39 lb-ft) PG 11</p> <p>250 – 375 Ncm (1.84 – 2.77 lb-ft)</p>	<p><math>r &gt; 55 \text{ mm (2.16 in)}</math></p>
<p>Max. 8 mm (0.31 in)</p> <p>Min. 4 mm (0.16 in)</p>	<p>Cable strain relief</p>
<p>Click!</p>	
<p>max. 90°</p> <p>max. 90°</p>	



Type of control	1	
Safety classification	Class I	
Ambient temperature	6 W V AC NC valve 7 W V AC NC valve 14 W V DC	-40 – 60 °C (-40 – 140 °F) -40 – 50 °C (-40 – 122 °F) -40 – 60 °C (-40 – 140 °F)
Humidity	0 – 100% R.H. (0 – 97% R.H. non-condensation condition if IP level is below IPX5/NEMA X4)	
Voltage variation	V AC V DC	-15% – 10% ±10%
Ball pressure test	200 °C (392 °F)	
Impulse withstand voltage	Cable Spade Plug Plug	4.0 kV at altitude <4000 m (13123 ft) 4.0 kV at altitude <4000 m (13123 ft) 4.0 kV at altitude <2000 m (6561 ft) 3.1 kV 2000 m<altitude<4000 m (6561<altitude<13123 ft)

Enclosure rate IPXX Pollution degree PDX	Cable Plug Spades	IP67 IP65 IP00	PD4 PD3 PD3
Installation	Integrated control Incorporated control Independently mounted control		
Suitable cable and conductor size for plug	$\varnothing 6.6 - \varnothing 11$ mm ( $\varnothing 0.26 - \varnothing 0.43$ in) $0.75 - 1.5$ mm <sup>2</sup> (21 – 15 AWG flexible cord)		
Number of mating for plug	10 times		
Cable size Cable conductor size	$\varnothing 6.6$ mm ( $\varnothing 0.26$ in) $3 \times 0.75$ mm <sup>2</sup> ( $3 \times 0.001$ in <sup>2</sup> ) Installation and handling for cable: > 5 °C (41 °F)		

- Only qualified personnel is allowed to install or maintain this product
- Disconnect the power when dismantling the coil
- Avoid direct exposure to alkaline conditions, use in neutral conditions is recommended
- Ensure that the O-ring is in place on the valve

-If the coil is used as independently mounted control, the end-user shall use a plastic cable gland with strain relief

#### **Special note for R290:**

The 9 mm coil (IP65/67) is validated in accordance to ISO 5149, IEC 60335 (ref. IEC/EN 60079- 15). Ignition risk is evaluated in accordance to ISO 5149 and IEC 60335 (ref. IEC/EN 60079-15). Please make sure that there is no spark, arc on the spade connection during the application. Always Install a fuse ahead of the coil: rated current: two times of rated current, time lag: medium, to avoid short circuit.

The coil used in an area of not more than pollution degree 2.

Follow the installation guide to mount the coil correctly, and apply o-ring for sealing to prevent moisture penetrating inside the coil.

#### **Safety note:**

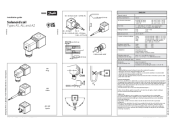
The 9 mm coil (IP65/67) can be applied on systems with R290 as the working fluid.

For countries where safety standards are not an indispensable part of the safety system Danfoss recommends the installer gets a third party approval of any system containing flammable refrigerant.

Please follow specific selection criteria stated in the datasheet for these particular refrigerants.

Note that 9 mm coil (IP65/67) has NOT been verified ATEX or IECEx or IEC 60079 series zone 2 compliant. The product is only validated for systems in compliance with ISO5149, IEC 60335 (ref. IEC/EN 60079-15). It is the responsibility of the user to verify such compliance. Improper use can cause explosion, fire, leakage potentially causing death, personal injury, or damage to property

## **Documents / Resources**



[Danfoss AS Solenoid Coil](#) [pdf] Installation Guide  
AS, AU, AZ, AS Solenoid Coil, AS, Solenoid Coil, Coil