

INSTRUCTIONS



ATEX certified coil for 4-way reversing valve

PREFACE

Important to read before use: Failure to read this instruction manual carefully for a thorough understanding of how this product operates could result in serious injury or property damage. Please keep this Instructions at hand so that it is always available for reference.

SAFETY REQUIREMENT

- Any instruction and precaution on the product drawing, and Schedule of Limitations on the type examination certificate (No.UL 24 ATEX 3186U Rev.*) must be complied with.
- Danfoss Saginomiya has no responsibility on quality warranty for the product(s) modified and/or repaired by any other parties/persons than Danfoss Saginomiya.
- Only a person skilled in the art, including engineers who actually work in the field of refrigerant system and/ or any well trained/ educated personnel can deal with flammable refrigerants using the appropriate tool.
- The product(s) shall be used within the limit of specification on temperature, pressure, electrical rating, vibration and so on, describing in drawing and/or product specification.
- Make sure to install the product at inaccessible position and to avoid any of the mechanical impact from outside. And the product, received such a mechanical impact even just one time, shall not be employed in the unit.
- Must be inspected that the valve and coil operate properly in a completed state as a unit.
- If the valve does not operate even after 10 minutes elapsing by putting an electric signal in the coil, please control to stop the current flowing the coil by emergency stop, and/or please be sure to install a circuit that can do it.
- Notice for cable handling
 - The wire should not touch to the sharp edges.
 - Connection wires with less tension is kept, so as to prevent pull force towards the terminal of product(s).
 - Secure the wiring properly to avoid the deformation and friction at vibration.
 - Do not fix wiring to the pipe with exceeding heatproof temperature
 - Do not apply mechanical load like bending under low temperature environment, to avoid wiring breakage and/or damage.
- In the case of disposal, the required rules/regulations related to environment need to be complied.

Schedule of limitations on the type examination certificate (No.UL 24 ATEX 3186U Rev.*);

- The connections to external circuit have not been evaluated. The acceptability of connections to external circuits shall be determined in the end-product application.
- Clearance and creepage of connection facilities shall be evaluated in end product application.
- Factory connection only.
- Service temperature of -20°C to 55°C and is based on surrounding ambient. The maximum internal temperature measured at 55°C was 137°C for STF-01/G01 series and 132°C for the STF-H series.
- Thermal tests shall be performed in the end application to verify that the service temperature is not exceeded these values.
- The device shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with EN IEC 60079-0.

SCOPE

- STF-01A Series cable type coil with Ex logo
- STF-G01A Series cable type coil with Ex logo
- STF-H01A Series cable type coil with Ex logo

Note: following models are excepted of object:

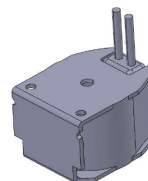
STF-01AZ Series, STF-01AK Series STF-01AP Series,
STF-H01AZ Series, STF-H01AK Series, STF-H01AP Series,
STF/STF-H type terminal type coil

Product label figure

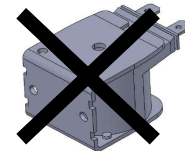
Compatible valve type	STF	Frequency (Optional)
Rated voltage	AC220-240V 50Hz	
Ex logo*	X1234 UL 24 ATEX 3186U Danfoss Saginomiya Sp. z o.o. MADE IN CHINA ASSEMBLED IN POLAND	Manufacturing No.



All ATEX certified coils have Ex logo on label.
(* e.g. product label figure) If the coil you bought doesn't have Ex logo, the coil is not ATEX certified products.



Cable type



Terminal type

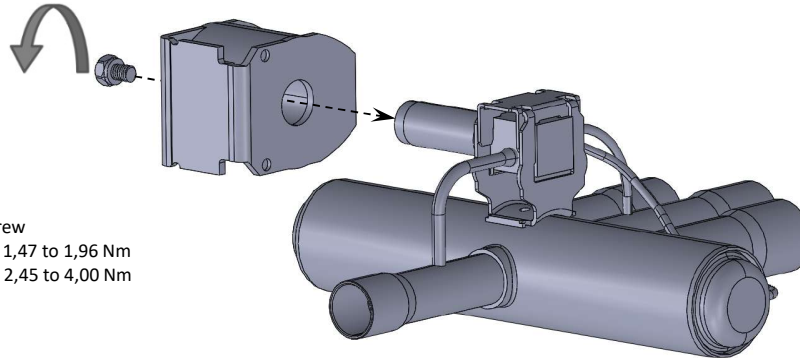
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Installation Requirements

- Do not install on the location the valve and coil where is exposed rain or get water drop.
- Do not energize coil before assembling valve, and during replacement operation.
- Do not brazing connections on valve assembled with coil. Be sure to remove coil while brazing valve.
- Coil gets heat (approx. 90 deg C) while energizing. Do not touch enclosure and resin part of coil while energizing to prevent burns.
- Do not cover coil with anything like thermal insulation, it may occur burning out of coil by decreasing heat exhaust.
- The tightening torques of screw for fixing coil to valve are each below.
- In case of removing coil for replacement or changing direction of coil, tighten the screw again with proper torque below.



Tightening torque of screw
STF-G01/STF-01 series : 1,47 to 1,96 Nm
STF-H01 series : 2,45 to 4,00 Nm

Product/ Manufacture/ ATEX marking information

Catalog No. : As specified on the packing label
Code : As specified on the packing label
Manufacturing No. : As specified on the product, see drawing for reading instructions.
Manufacture : SAGINOMIYA SEISAKUSHO, INC.
Manufacture plant : Danfoss Saginomiya Sp.z o.o.
ATEX marking :  II 3 G
IECEx marking : Ex ec IIC Gc
ATEX certificate No. : UL 24 ATEX 3186U
Rated voltage : As specified on the product label

LIMITED WARRANTY

- Unless otherwise agreed, SAGINOMIYA warrants this product against defects in materials and production for a period of one year from the date of delivery (the "Warranty Period").
- If the product has any defects attributable to SAGINOMIYA during the Warranty Period, SAGINOMIYA will repair or replace the product.
- This warranty does not apply;
 1. to damage caused by improper handling or application by the user.
 2. to damage caused by modification or repair by other than SAGINOMIYA.
 3. to damage caused by war, fire, storm or other external causes.
- The warranty described here in is for the product itself and does not include warranty for any consequential damage arisen out of a defect or failure of the product.

Link to Attestation of compliance



https://www.saginomiya.co.jp/en/auto/pdf/Ex-0015_DS_AoC_STF.pdf

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