



Danfoss RT 110 Pressure Switch Installation Guide

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Danfoss RT 110 Pressure Switch



Data

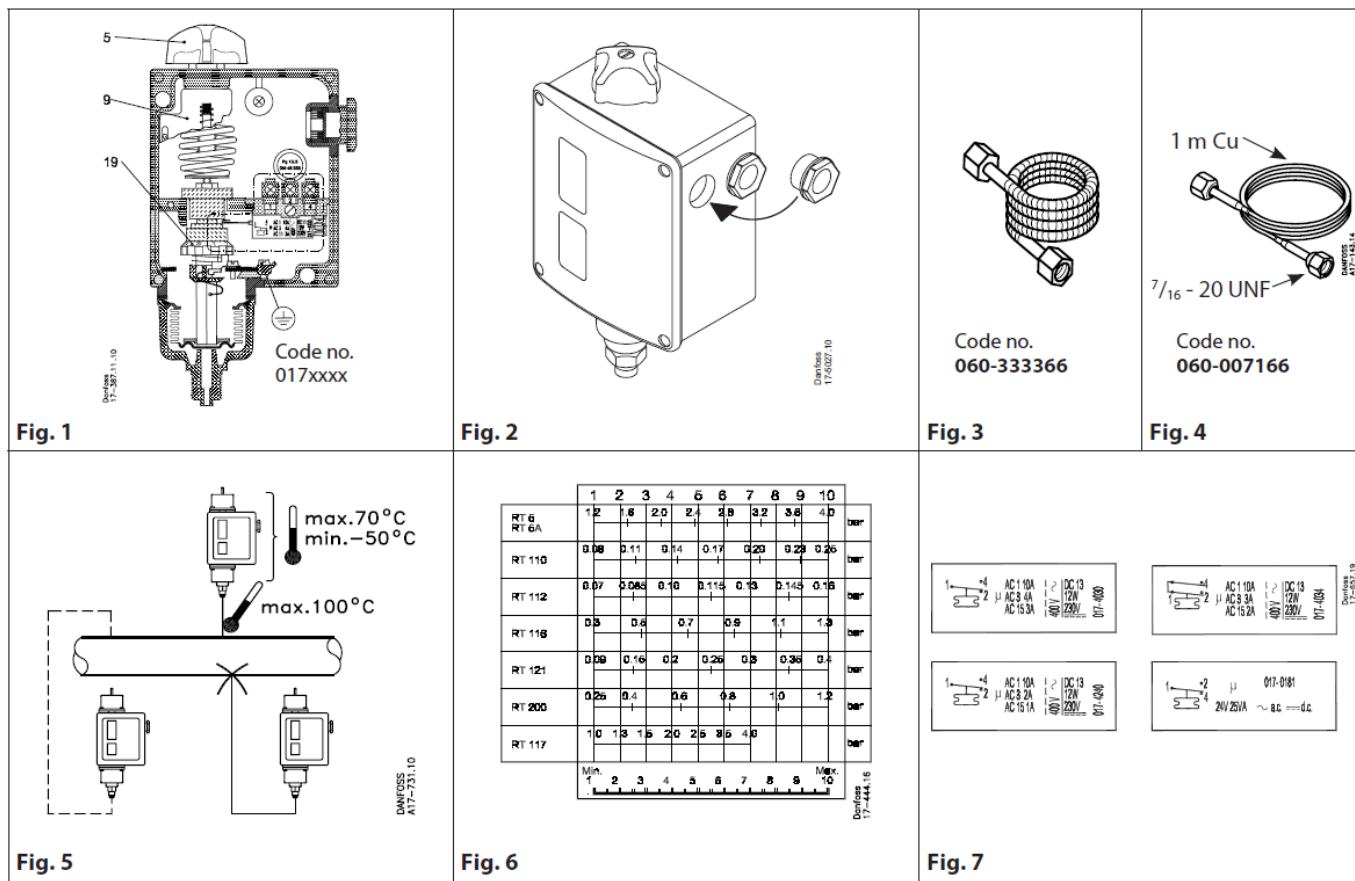
Pressure switch, types RT 5, RT 110, RT 112, RT 117, RT 121, RT 200, RT 116 Max. test pressure RT 110, RT 112, RT 121: 8 bar RT 5, RT 116, RT 200: 25 bar RT 117: 47 bar Fitting A set of Pg13.5 cable glands is attached to the RT in a separate bag. To ensure IP66 (units with automatic reset) or IP54 (units with external reset) grade of RT enclosure it is necessary to assemble this gland as shown in fig. 2. If this gland is not used with a cable, a metal blinding should be also assembled. Damp out strong pressure pulsations. A damping coil, fig. 3 or fig. 4, will often be sufficient. Insert a water-filled tube loop as a temperature lock (e.g. a 10 mm Cu tube) if at high plant temperatures there is a risk that the pressure connection of the control will become heated to more than 100 °C. Position the pressure control so that the water plant cannot be exposed to frost. It can operate on an air cushion, for example.

Setting

The pressure controller is set by rotating the knob (5), and at the same time reading the main scale (9). See fig. 1. The differential is set by rotating the differential adjusting nut (19) to the value indicated by the use of the nomogram in fig. 6. The maximum operating pressure is thus the sum of the set pressure and the differential.

Example

- It is desired to control the pressure in an oilfired steam boiler by the use of an RT 116.
 - Maximum pressure 9 bar.
 - Minimum pressure 8.2 bar.
 - Differential $9 - 8.2 = 0.8$ bar.
1. Connect the oil burner to terminals 1-2 of the pressure switch.
 2. Set the pressure switch for 8.2 bar by rotating the knob (5).
 3. Set the differential adjusting nut (19) in figure 7 which is found by reading the nomogram in fig. 6.



Documents / Resources

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RT 110, RT 112, RT 116, RT 117, RT 121, RT 200, Pressure Switch