

Data Sheet

FTC

Floor Heating Sensor

Application

FTC is used for flow temperature control of floor heating and radiator heating systems.

FTC is a self-acting thermostatic sensor, which can be combined with 2-way valve bodies, types RA-N and RA-C.

The water temperature is measured by a surface sensor, which is easily mounted on the pipe with a strip (enclosed with the product). The snap-lock connector of the sensor element secures a firm connection to the valve.



Features:

- Closes on rising sensor temperature.
- Temperature range: 15 °C to 50 °C or 35 °C to 70 °C.
- Valve can be mounted on flow or return pipe.
- Sized for pressure PN 10.

Ordering

Sensor type	Setting range	Capillary length	Max. ambient temp.	Code no.
FTC	35 °C to 70 °C	0-2 m	65 °C	013G5080
FTC	15 °C to 50 °C	0-2 m	65 °C	013G5081

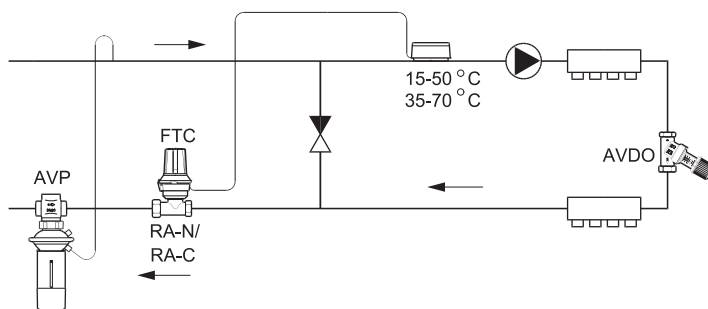
Valve body	Connection		k _{VS}	Code no.
	Inlet	Outlet		
RA-N 10, straight	G 3/8	R 3/8	0,65 m ³ /h	013G0032
RA-N 15, straight	G 1/2	R 1/2	0,90 m ³ /h	013G0034
RA-N 20, straight	G 3/4	R 3/4	1,40 m ³ /h	013G0036
RA-C 15, straight	G 3/4 A	G 3/4 A	1,20 m ³ /h	013G3094
RA-C 20, straight	G 1 A	G 1 A	3,30 m ³ /h	013G3096

Technical Specifications

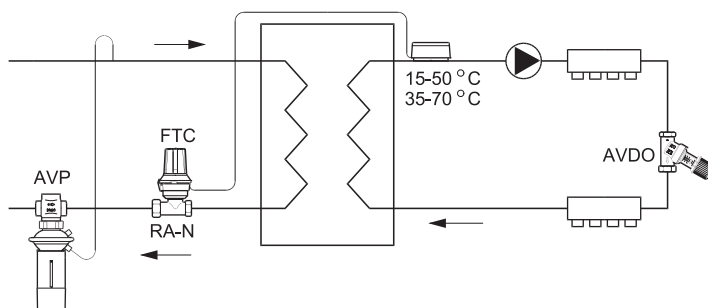
FTC with valve body	k _V m ³ /h* at a P-band of K				Max. pressure			Max. temperature	
	2	4	6	8	PN	Δp	Test	Flow	Ambient
RA-N 10	0,18	0,34	0,46	0,56	10 bar	0,6 bar	16 bar	120 °C	65 °C
RA-N 15	0,22	0,44	0,62	0,73					
RA-N 20	0,32	0,62	0,88	1,04					
RA-C 15	0,40	0,71	0,90	1,03					
RA-C 20	1,06	1,94	2,45	2,75					

* k_V-value stated at setting N. Xp between 2 K and 8 K.

System Principles

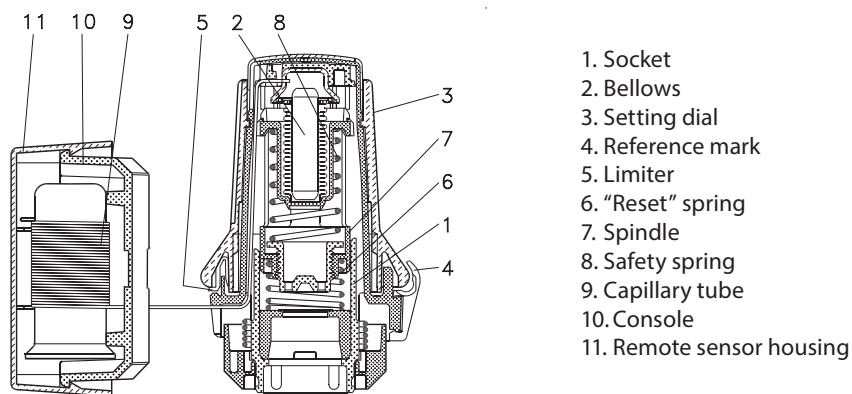


Floor Heating System

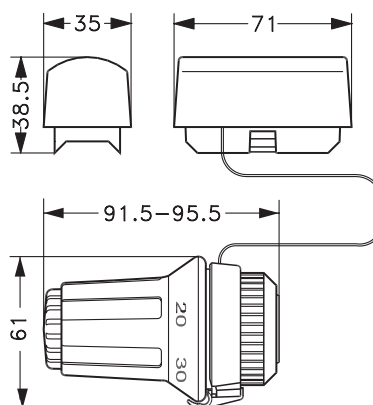


Heat Exchanger in Radiator Heating or Floor Heating System

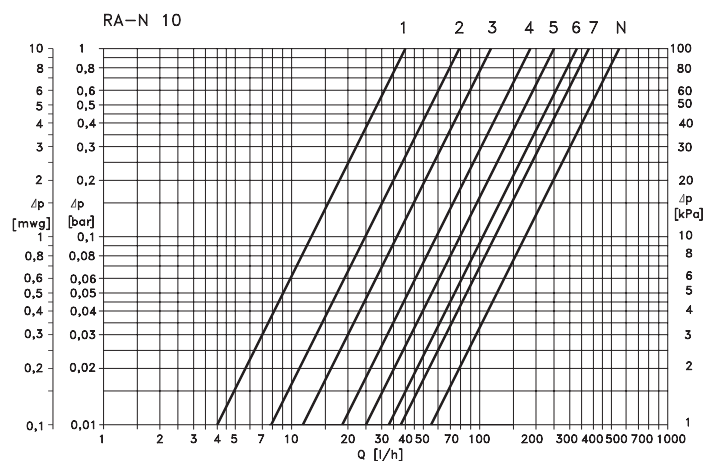
Design



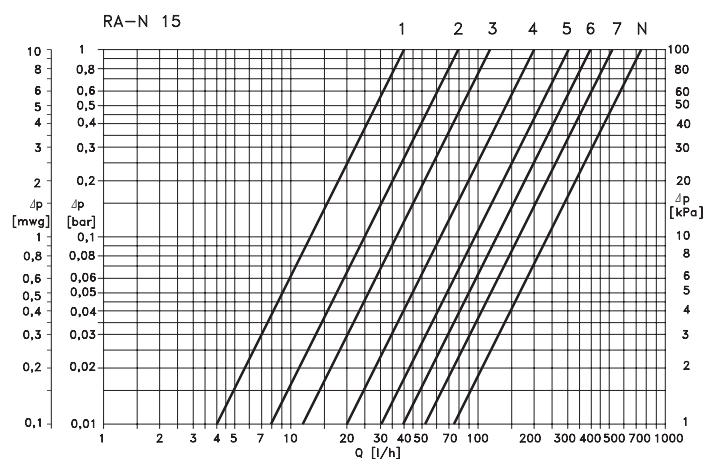
Dimensions



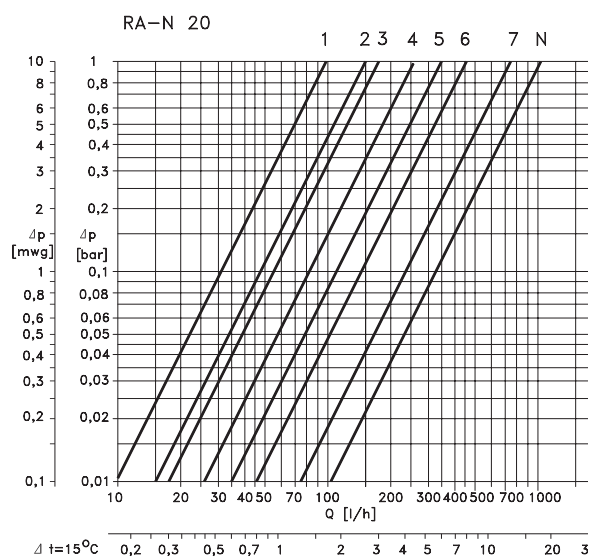
Capacity,
FTC with RA-N



FTC sensor with RA-N 10 valve

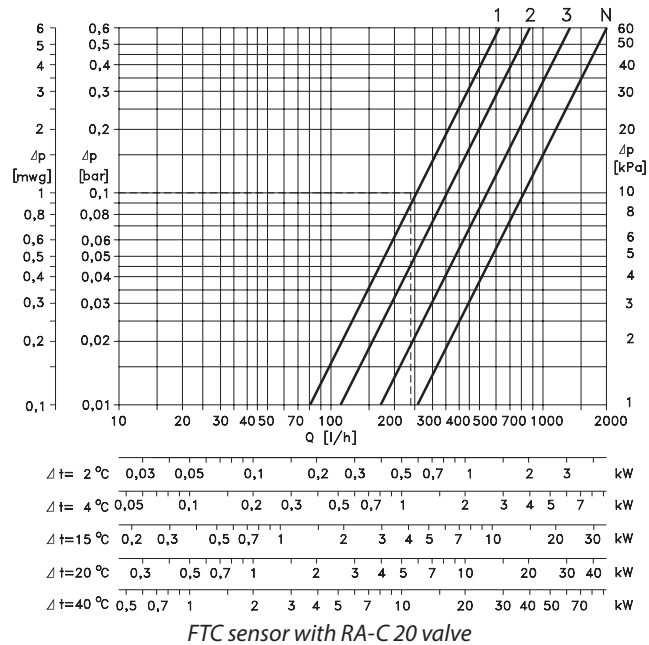
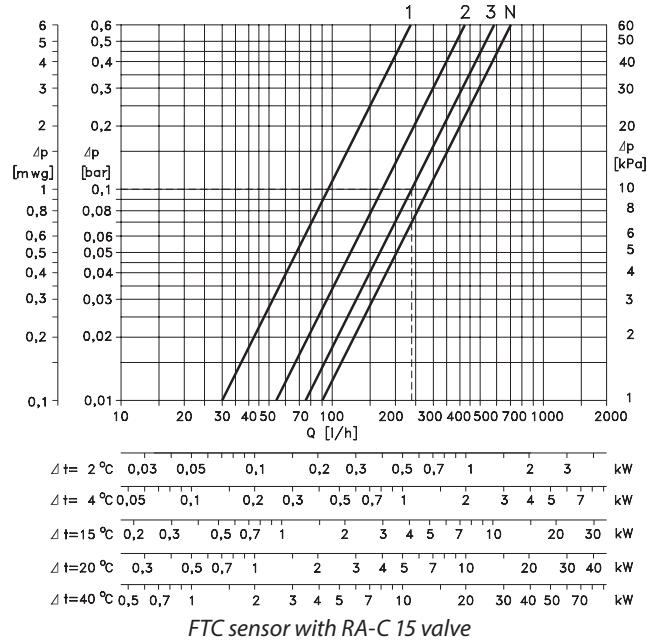


FTC sensor with RA-N 15 valve



FTC sensor with RA-N 20 valve

Capacity, FTC with RA-C



Danfoss A/S

Climate Solutions • climatesolutions.danfoss.com • +45 7488 2222 • E-Mail: climatesolutions@danfoss.com

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.