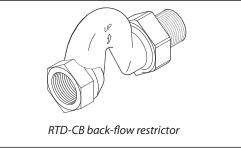


Data sheet

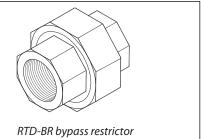
Flow Restrictors for one-pipe systems

Application



The RTD-CB back-flow restrictor prevents radiator back-flow and heat transfer at the return pipe in a one-pipe system.

The back-flow restrictor is installed in the radiator return pipe with the bow pointing upwards.



The RTD-BR bypass restrictor decreases flow through the bypass in a one-pipe system, thus forcing the correct amount of system water to pass through the radiator.

The bypass restrictor will decrease the bypass with one dimension (e.g. DN 20 > DN 15).

The bypass restrictor is installed in the bypass by the radiator.

Principle Radiator 90 °C TRV Heat cost allocator RTD-BR RTD-CB RTD-CB

The heat cost allocator is placed according to the manufacturer's instructions.

Heat transfer

The RTD-CB back-flow restrictor reduces heat transfer from system pipes to radiator, when the TRV is closed.

With the bypass placed 175 mm from the radiator, a flow temperature of 90 $^{\circ}$ C and a room temperature of 20 $^{\circ}$ C, the max. detected temperature is:

Heat cost allocators with a single sensor for radiator surface	28 °C
Heat cost allocators with two sensors for radiator surface / room temperature	room temp. +5 ℃

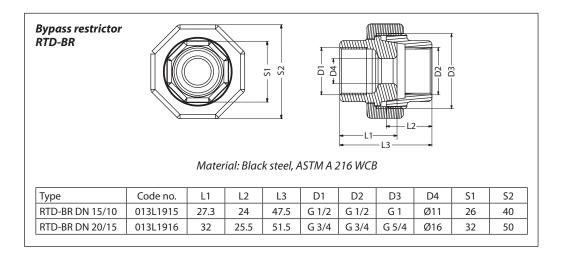
Ordering and data

Туре	Size	Connections			Max.	Test	Max.	
		Inlet	Outlet	K _{vs}	working pressure	pressure	working temp.	Code no.
RTD-CB back-flow restrictor	DN 15	R 1/2	Rp 1/2	4.54 m³/h	10 bar	16 bar	120 °C	013L1925
RTD-CB back-flow restrictor	DN 20	R 3/4	Rp 3/4	8.06 m³/h	10 bar	16 bar	120 °C	013L1926
RTD-CB back-flow restrictor	DN 25	R 1	Rp 1	17.0 m³/h	10 bar	16 bar	120 °C	013L1927
RTD-BR bypass restrictor	DN 15/10	G 1/2	G 1/2	6.80 m³/h	10 bar	16 bar	120 °C	013L1915
RTD-BR bypass restrictor	DN 20/15	G 3/4	G 3/4	15.1 m³/h	10 bar	16 bar	120 °C	013L1916



Dimensions

Back-flow restrictor RTD-CB										
Tuno		L1	1	1	D	42	61	S2		
Туре	Code no.		L2	L3	-	d2	S1	-		
RTD-CB DN 15	013L1925	68	96	32	Rp 1/2	R 1/2	27	30		
RTD-CB DN 20	013L1926	76	106	38	Rp 3/4	R 3/4	32	37		
RTD-CB DN 25	013L1927	90	126	48	Rp 1	R 1	41	46		



Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

