

# **Data Sheet**

# Return Temperature Limiter Type FJVR - Sensor and Valve Body

## **Application**







The return limiter type FJVR automatically controls the return temperature from radiators, convectors and floor heating pipes.

imal circulation in the pipe system up to the heat

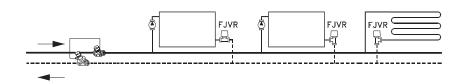
vectors and floor heating pipes.

In ventilation systems FJVR ensures a certain min-

FJVR is a self-acting P-band regulator, used in 2-pipe systems with pump.

Setting can be limited and locked. FJVR valve bodies are nickel-plated.

# System



## **Data and Ordering**

## Sensors

exchanger.

Туре	Colour	Setting range	Code no.
	White RAL 9010	10 - 50 °C	003L1040
FJVR Return Temperature Limiter	White RAL 9010	10 - 80 °C	003L1070
	Chrome	10 - 50 °C	003L1072

## Valve bodies

Valve bodies	Connections		L 2)	Max. pressure			Max. water	Code no.					
valve boules	Inlet	Outlet 1)	k <sub>vs</sub> <sup>2)</sup>	Working	Different.3)	Test	temp.	Code no.					
FJVR 10, angle	R 3/8	R <sub>p</sub> <sup>3</sup> / <sub>8</sub>	0.39	- 10 bar	1 bar	16 bar	120 °C	003L1009					
FJVR 10, straight								003L1010					
FJVR 15, angle	R <sup>1</sup> / <sub>2</sub>	R 1/2	D 1/	D 1/	D 1/	D 1/	$R_{\rm p}^{-1}/_{2}$	0.68	10 Dai	i Dai	10 bai	120 C	003L1013
FJVR 15, straight			1 'ip /2	0.90	0.90				003L1014				

<sup>1)</sup> Outlet connection is prepared for Danfoss compression fittings.

The  $k_v$ -value indicates the water flow (Q) in  $m^3/h$  at a pressure drop ( $\Delta p$ ) across the valve of 1 bar.

<sup>&</sup>lt;sup>3)</sup> The max. differential pressure indicates the limit for an optimal valve performance. To ensure quiet operation it is recommended to choose a pump which provides the correct pressure to circulate the required flow of water. In most systems a differential pressure of 0.1-0.3 bar is sufficient. The differential pressure may be reduced by using Danfoss differential pressure controls.



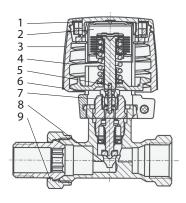
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Spare parts

Product	Code no.
Gland seal (10 pcs.)	013G0290

## Design



The return temperature limiter includes a thermo-static element type FJVR and a valve body type FJVR 10.

The element and the valve body are ordered separately.

The gland of the valve can be exchanged without draining down system.

	_		
-1	50	nso	r

- 2. Bellows
- 3. Setting handle
- 4. Spring
- 5. Pressure pin
- 6. Gland seal
- 7. Valve top
- 8. Valve cone
- 9. Valve body

Valve body and other metal parts	Ms 58
Pressure pin in gland seal	Chrome steel
O-ring	EPDM
Valve cone	NBR

#### Materials in contact with water

# Mounting



Straight valve



Angle valve

FJVR is mounted in the radiator outlet. The valve and sensor can be fitted in any position as long as flow direction is observed.

During construction, the heat can be controlled by turning the slotted screw in the valve cap, prior to fitting the element.

## Setting

## FJVR 003L1070

	1	2	3	4	5	6	7	8	
10	20	30	40	45	50	60	65	70	80 °C

# FJVR 003L1040 / 003L1072

	1	2	3	4	
10	20	30	40	45	50 °C

Frost protection setting = 10 °C

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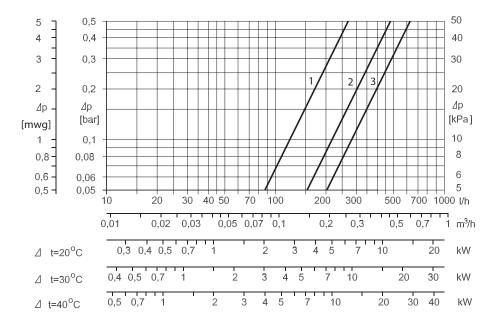


Required return water temperature can be set by turning the dial.

The scale figure indications appear as in the illustration.

## **Capacities**

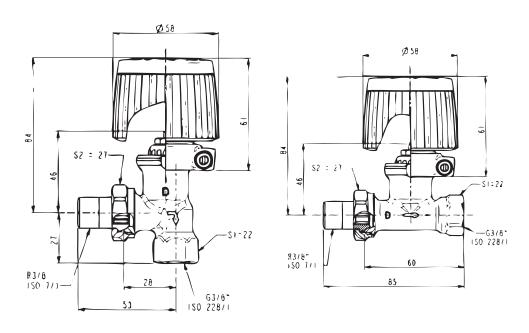
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- 1. DN10
- 2. DN15 angle

3. DN15 straight

## **Dimensions**



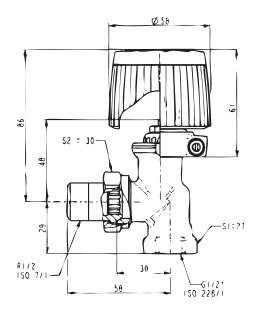
FJVR 10 (3/8") angle version

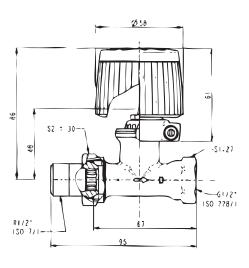
FJVR 10 (3/8") straight version



# **Data Sheet**

# Return Temperature Limiter Type FJVR - Sensor and Valve Body





FJVR 15 (1/2") angle version

FJVR 15 (1/2") straight version

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