

**Data Sheet** 

# **Return Temperature Limiter Type FJVR - Sensor and Valve Body**

Application





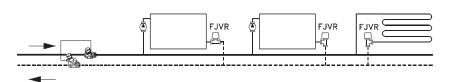
The return limiter type FJVR automatically controls the return temperature from radiators, convectors and floor heating pipes.

imal circulation in the pipe system up to the heat

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

In ventilation systems FJVR ensures a certain min-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	Con	nections	k <sub>vs</sub> <sup>2)</sup>	Max. pressure		Max. water	Code no.	
valve boules	Inlet	Outlet 1)	ĸ <sub>vs</sub> ′	Working	Different. <sup>3)</sup>	Test	temp.	code no.
FJVR 10, angle	R <sup>3</sup> / <sub>8</sub>	$R_{p}^{3}/_{8}$	0.39		r 1 bar	16 bar	120 °C	003L1009
FJVR 10, straight	Γ / <sub>8</sub>	Np /8	0.59	10 bar				003L1010
FJVR 15, angle	R <sup>1</sup> / <sub>2</sub>	$R^{1}/_{2}$ $R_{p}^{1}/_{2}$	0.68					003L1013
FJVR 15, straight			0.90					003L1014

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

<sup>2)</sup> The  $k_v$ -value indicates the water flow (Q) in m<sup>3</sup>/h at a pressure drop ( $\Delta p$ ) across the value of 1 bar.

<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.

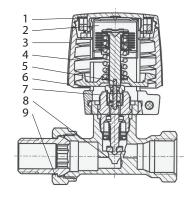


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5	Spare parts				
	Product	Code no.			
	Gland seal (10 pcs.)	013G0290			

#### 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.

Materials in contact with water

- 1. Sensor
- 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

# Mounting



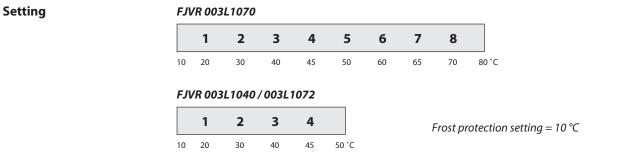




Angle valve

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.

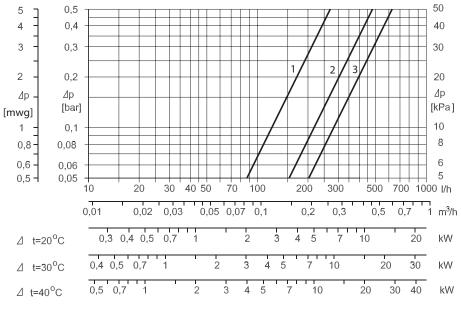




Required return water temperature can be set by turning the dial.

The scale figure indications appear as in the illustration.

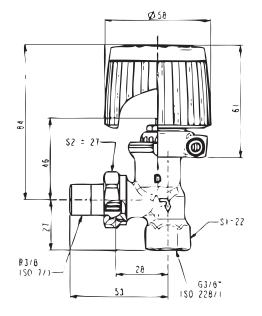
# Capacities

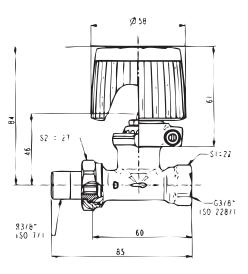


DN10
DN15 angle

3. DN15 straight

# Dimensions





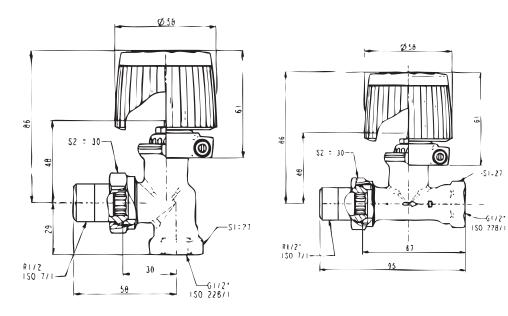
#### FJVR 10 (3/8") angle version

#### 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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