

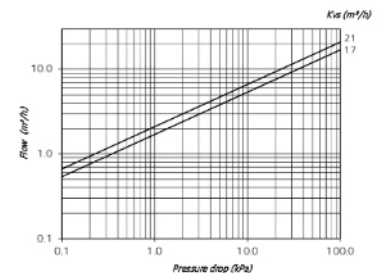
LK 825 ThermoVar



TECHNICAL DATA

Opening temperatures	45°C, 55°C, 61°C, 72°C or 80°C
Working temperature, 45°C - 55°C	Min. +5°C / Max. +95°C
Working temperature, 61°C - 80°C	Min. +5°C / Max. +110°C
Ambient temperature	Min. +5°C / Max. +60°C
Max. working pressure	1.0 MPa (10 bar)
Max. pressure difference	50 kPa
Media	Water - Glycol mixture max. 50%
Material, valve body	Cast iron EN 1561 EN-GJL-200
Material, cover	Coated Aluminium
Material, cover sealing	Fibre
Material, O-ring	EPDM

Capacity Diagram



LK 825 ThermoVar is a 3-way thermic loading valve for solid fuel/storage tank installations. The valve is intended to ensure both an optimal temperature stratification in the storage tank and a high return temperature to the boiler, thus increasing the efficiency of the system. Tarring and condensation are prevented which prolongs boiler life.

The valve can be mounted at any angle. LK 825 ThermoVar can easily be adapted for right- or left-hand mounting. The valve can be installed in three different positions. In the standard version the valve is intended for installation in position I. It can easily be adapted for installation in position II. For delivery of valves intended for installation in position III, please contact our Sales Department.

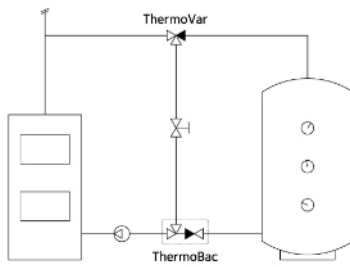
Position I

As soon as the boiler temperature has reached the selected opening temperature, the thermic valve allows hot water to load the storage tank. Return water from the storage tank is mixed with supply water before it circulates back into the boiler. The loading temperature is at least the selected opening temperature.

A balancing valve should be installed in the circuit between boiler and loading valve.

The installation should be equipped with an LK 826 ThermoBac check valve that prevents self-circulation from the storage tank to the boiler after the fire has gone out. In case of power failure or pump breakdown the check valve automatically opens for self-circulation.

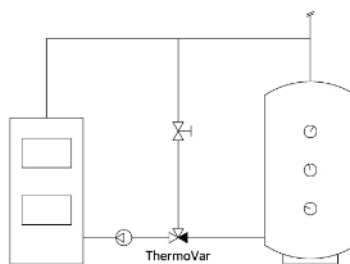
The circulating pump should be controlled by a thermostat that measures the boiler's water- or flue gas temperature.

Position I**Position II**

As soon as the boiler temperature has reached the selected opening temperature, the thermic valve allows return water from the storage tank to mix with supply water before it circulates back into the boiler. The return temperature is at least the selected opening temperature.

A balancing valve should be installed in the circuit between boiler and loading valve.

The circulating pump should be controlled by a thermostat that measures the boiler's water- or flue gas temperature.

Position II**Position III**

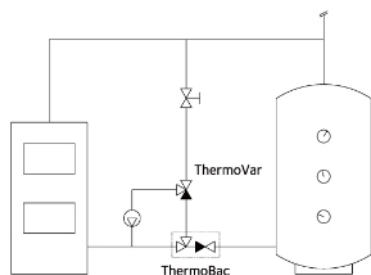
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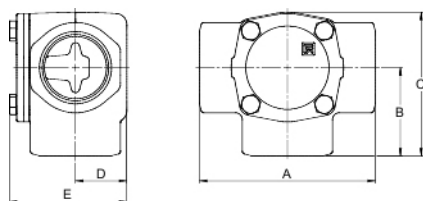
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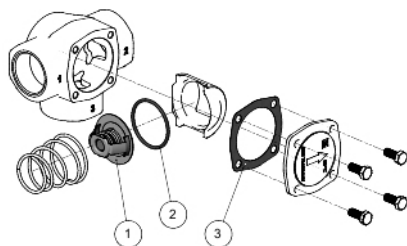
Position III



LK 825 - FEMALE THREAD



SPARE PARTS AND ACCESSORIES



Article number	Opening temperature	Dim.	Kvs m³/h	A mm	B mm	C mm	D mm	E mm	Weight kg
180201	45°C	Rp 1½"	17	127	63.5	103	37	85	2.5
180204	45°C	Rp 2"	21	127	63.5	106	44	101	4.0
180225	55°C	Rp 1½"	17	127	63.5	103	37	85	2.5
180229	55°C	Rp 2"	21	127	63.5	106	44	101	4.0
180249	61°C	Rp 1½"	17	127	63.5	103	37	85	2.5
180254	61°C	Rp 2"	21	127	63.5	106	44	101	4.0
180269	72°C	Rp 1½"	17	127	63.5	103	37	85	2.5
180272	72°C	Rp 2"	21	127	63.5	106	44	101	4.0
180285	80°C	Rp 1½"	17	127	63.5	103	37	85	2.5
180288	80°C	Rp 2"	21	127	63.5	106	44	101	4.0

Spare parts and Accessories

Article number	Article	Included components
180602	LK 825 Thermostatic element 45°C	1-3
180603	LK 825 Thermostatic element 55°C	1-3
180604	LK 825 Thermostatic element 61°C	1-3
180605	LK 825 Thermostatic element 72°C	1-3
180606	LK 825 Thermostatic element 80°C	1-3