

LK 823 ThermoVar



Technical Data

Opening temperatures	45°C, 50°C, 55°C or 60°C
Working temperature, 45°C - 55°C	Min. +5°C/Max. +95°C
Working temperature, 60°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	100 kPa
Max. boiler capacity, Rp 1"	90 kW at 30°C ΔT
Max. boiler capacity, Rp 1¼"	110 kW at 30°C ΔT
Leakage	< 0.5% of Kvs at 100 kPa
Media	Water - Glycol mixture max. 50%
Thread standard	Rp - female thread G - male thread
Material, valve body	Brass EN 1982 CB753S
Material, cover	Brass EN 12165 CW617N
Material, O-ring	EPDM

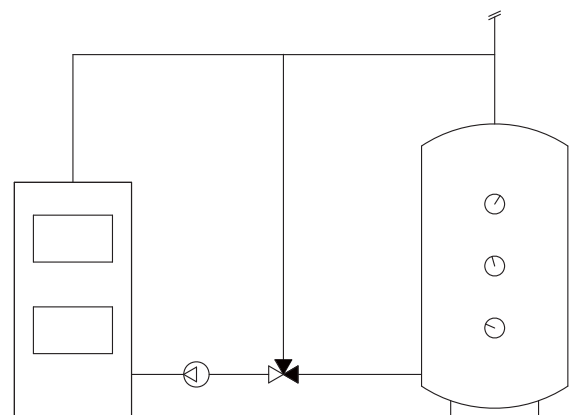
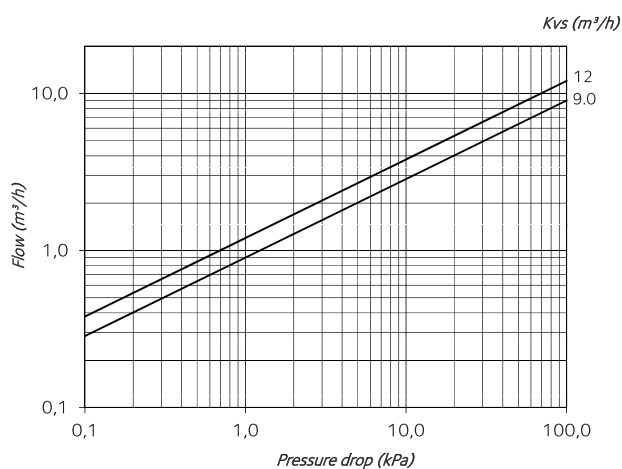
LK 823 ThermoVar is a 3-way thermic loading valve for solid fuel/storage tank installations. The valve is intended to ensure both an optimal temperature stratification in the storage tank and a high return temperature to the boiler, thus increasing the efficiency of the system. Tarring and condensation are prevented which prolongs boiler life.

The valve regulates on two ports, which means that there is no need for a balancing valve in the circuit between boiler and loading valve. The thermostatic element starts to open port A at an outgoing mixed water temperature in port AB of 45°C, 50°C, 55°C or 60°C. Port B is closed when the temperature in port A exceeds the nominal opening temperature by 10°C.

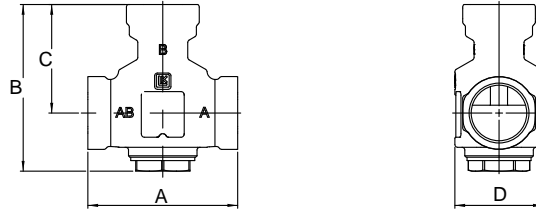
LK 823 can be equipped with an insulation - see under Accessories. For more information please see the product sheet for insulations - page 47.

The valve can be mounted at any angle. LK 823 ThermoVar is for right- or left-hand mounting.

Capacity Diagram

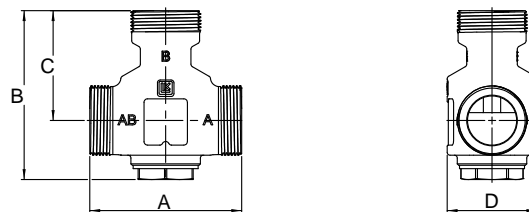


LK 823 - Female thread



Article number	Opening temperature	Dim.	Kvs m ³ /h	A mm	B mm	C mm	D mm	Weight kg
181284	45°C	F 1	9.0	92	114	72.5	Ø55	1.0
181288	45°C	F 1¼	12	105	117	76	Ø62	1.2
181285	50°C	F 1	9.0	92	114	72.5	Ø55	1.0
181289	50°C	F 1¼	12	105	117	76	Ø62	1.2
181286	55°C	F 1	9.0	92	114	72.5	Ø55	1.0
181290	55°C	F 1¼	12	105	117	76	Ø62	1.2
181287	60°C	F 1	9.0	92	114	72.5	Ø55	1.0
181291	60°C	F 1¼	12	105	117	76	Ø62	1.2

LK 823 - Male thread



Article number	Opening temperature	Dim.	Kvs m ³ /h	A mm	B mm	C mm	D mm	Weight kg
181300	45°C	M 1½	12	105	117	76	Ø62	1.2
181301	50°C	M 1½	12	105	117	76	Ø62	1.2
181302	55°C	M 1½	12	105	117	76	Ø62	1.2
181303	60°C	M 1½	12	105	117	76	Ø62	1.2

Spare parts and Accessories

Article number	Article	Position number
187102	LK 823 Thermostatic element 45°C	1-2
187103	LK 823 Thermostatic element 50°C	1-2
187104	LK 823 Thermostatic element 55°C	1-2
187105	LK 823 Thermostatic element 60°C	1-2
187109	Insulation, DN 25-32	3

