

LK 823 ThermoVar®

Technical data

Opening temperature:	45°C, 50°C, 55°C, 60°C, 65°C or 70°C
Working temperature:	(45°C - 55°C) Min. +5°C/Max. +95°C (60°C - 70°C) Min. +5°C/Max. +110°C
Ambient temperature:	Min. +5°C/Max. +60°C
Max. working pressure:	1.0 MPa (10 bar)
Max. differential pressure:	100 kPa (1 bar)
Leakage:	< 0.5% of Kvs at 100 kPa
Media 1:	Water - Glycol mixture max. 50%
Thread standard:	Rp - female thread, G - male thread
Material, valve body:	Brass EN 1982 CB753S
Material, internal cover:	Brass EN 12165 CW617N
Material, sealing:	EPDM

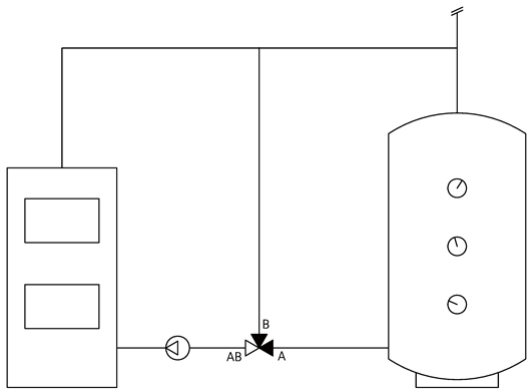


LK 823 ThermoVar® is a 3-way thermic loading valve for solid fuel/storage tank installations. The valve is intended to ensure both an optimal temperature stratification in the storage tank and a high return temperature to the boiler, thus increasing the efficiency of the system. Tarring and condensation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

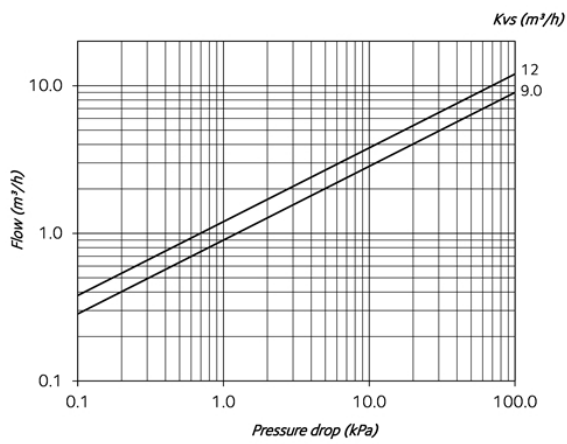
The valve regulates on two ports, which means that there is no need for a balancing valve in the circuit between boiler and loading valve. The thermostatic element starts to open port A at an outgoing mixed water temperature in port AB of 45°C, 50°C, 55°C, 60°C, 65°C or 70°C. Port B is closed when the 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.

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

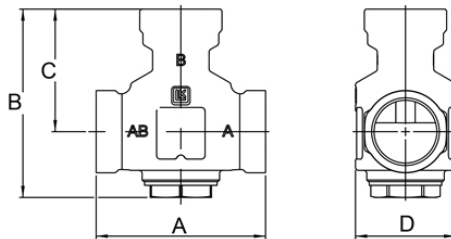


Capacity Diagram



LK 823 - Female thread

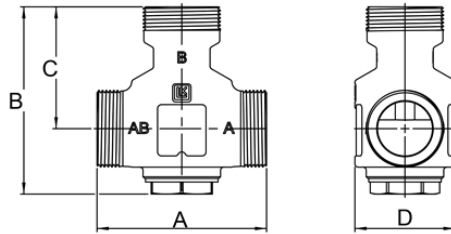
LK 823 - Female thread



Article no.	Opening temp. °C	Opening temp. °F	Dim.	Kvs m³/h	A mm	B mm	C mm	D mm	Weight (kg)
181284	45	113	F 1"	9.0	92	114	72.5	Ø55	1.0
181288	45	113	F 1¼"	12	105	117	76	Ø62	1.2
181285	50	122	F 1"	9.0	92	114	72.5	Ø55	1.0
181289	50	122	F 1¼"	12	105	117	76	Ø62	1.2

Article no.	Opening temp. °C	Opening temp. °F	Dim.	Kvs m ³ /h	A mm	B mm	C mm	D mm	Weight (kg)
181286	55	131	F 1"	9.0	92	114	72.5	Ø55	1.0
181290	55	131	F 1¼"	12	105	117	76	Ø62	1.2
181287	60	140	F 1"	9.0	92	114	72.5	Ø55	1.0
181291	60	140	F 1¼"	12	105	117	76	Ø62	1.2
181536	65	149	F 1"	9.0	92	114	72.5	Ø55	1.0
181537	65	149	F 1¼"	12	105	117	76	Ø62	1.2
181539	70	158	F 1"	9.0	92	114	72.5	Ø55	1.0
181540	70	158	F 1¼"	12	105	117	76	Ø62	1.2

LK 823 - Male thread



Article no.	Opening temp. °C	Opening temp. °F	Dim.	Kvs m ³ /h	A mm	B mm	C mm	D mm	Weight (kg)
181300	45	113	M 1½"	12	105	117	76	Ø62	1.2
181301	50	122	M 1½"	12	105	117	76	Ø62	1.2
181302	55	131	M 1½"	12	105	117	76	Ø62	1.2
181303	60	140	M 1½"	12	105	117	76	Ø62	1.2
181538	65	149	M 1½"	12	105	117	76	Ø62	1.2
181541	70	158	M 1½"	12	105	117	76	Ø62	1.2

Spare parts & Accessories

Article no.	Article	Position
187102	Thermostatic element 823, 45°C	1
187103	Thermostatic element 823, 50°C	1
187104	Thermostatic element 823, 55°C	1
187105	Thermostatic element 823, 60°C	1
187138	Thermostatic element 823, 65°C	1
187139	Thermostatic element 823, 70°C	1
187109	Insulation, DN 25-32	2

