

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

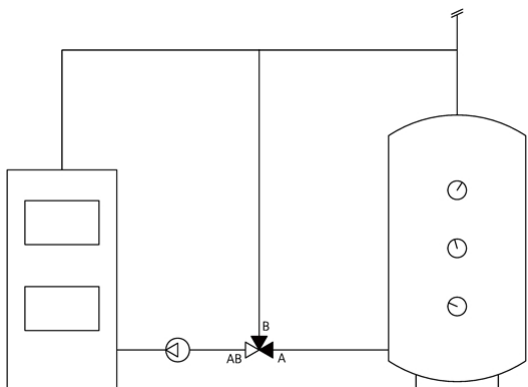


LK 823 ThermoVar® is a 3-way thermic loading valve for solid fuel/storage tank installations. The valve is intended to ensure both an optimal temperature stratification in the storage tank and a high return temperature to the boiler, thus increasing the efficiency of the system. Tarring and condensation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

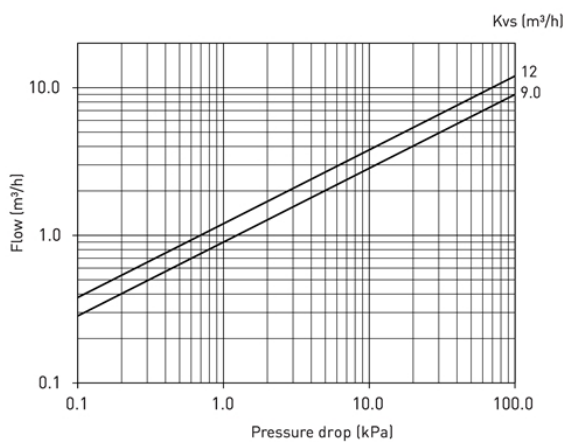
The valve regulates on two ports, which means that there is no need for a balancing valve in the circuit between boiler and loading valve. The thermostatic element starts to open port A at an outgoing mixed water temperature in port AB of 45 °C, 50 °C, 55 °C, 60 °C, 65 °C or 70 °C. Port B is closed when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

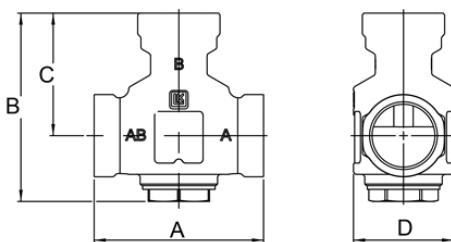
The valve can be mounted at any angle. LK 823 ThermoVar® is for right- or left-hand mounting.



Capacity Diagram



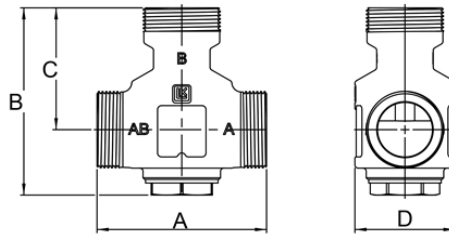
LK 823 - Female thread



Article no.	Opening temp. °C	Dim.	Kvs m³/h	A mm	B mm	C mm	D mm	Weight (kg)
181284	45	F 1"	9	92	114	72.5	Ø 55	1.0
181288	45	F 1¼"	12	105	117	76	Ø 62	1.2
181285	50	F 1"	9	92	114	72.5	Ø 55	1.0
181289	50	F 1¼"	12	105	117	76	Ø 62	1.2
181286	55	F 1"	9	92	114	72.5	Ø 55	1.0

Article no.	Opening temp. °C	Dim.	Kvs m ³ /h	A mm	B mm	C mm	D mm	Weight (kg)
181290	55	F 1¼"	12	105	117	76	Ø 62	1.2
181287	60	F 1"	9	92	114	72.5	Ø 55	1.0
181291	60	F 1¼"	12	105	117	76	Ø 62	1.2
181536	65	F 1"	9	92	114	72.5	Ø 55	1.0
181537	65	F 1¼"	12	105	117	76	Ø 62	1.2
181539	70	F 1"	9	92	114	72.5	Ø 55	1.0
181540	70	F 1¼"	12	105	117	76	Ø 62	1.2

LK 823 - Male thread



Article no.	Opening temp. °C	Dim.	Kvs m ³ /h	A mm	B mm	C mm	D mm	Weight (kg)
182163	45	M 1"	9	84	103.5	62	Ø 55	1.0
182164	50	M 1"	9	84	103.5	62	Ø 55	1.0
182165	55	M 1"	9	84	103.5	62	Ø 55	1.0
182166	60	M 1"	9	84	103.5	62	Ø 55	1.0
182167	65	M 1"	9	84	103.5	62	Ø 55	1.0
182168	70	M 1"	9	84	103.5	62	Ø 55	1.0
181300	45	M 1½"	12	105	117	76	Ø 62	1.2
181301	50	M 1½"	12	105	117	76	Ø 62	1.2
181302	55	M 1½"	12	105	117	76	Ø 62	1.2
181303	60	M 1½"	12	105	117	76	Ø 62	1.2
181538	65	M 1½"	12	105	117	76	Ø 62	1.2
181541	70	M 1½"	12	105	117	76	Ø 62	1.2
182130	45	M 1¼"	9	92	110.5	69	Ø 62	1.2
182131	50	M 1¼"	9	92	110.5	69	Ø 62	1.2

Article no.	Opening temp. °C	Dim.	Kvs m ³ /h	A mm	B mm	C mm	D mm	Weight (kg)
182132	55	M 1¼"	9	92	110.5	69	Ø 62	1.2
182133	60	M 1¼"	9	92	110.5	69	Ø 62	1.2
182134	65	M 1¼"	9	92	110.5	69	Ø 62	1.2
182135	70	M 1¼"	9	92	110.5	69	Ø 62	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

