VXL: Unit through valve

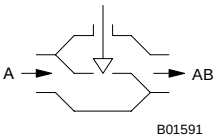
Used in conjunction with the AXT thermal drive, the AXS continuous drive for unit valves or the AXM motorised drive for unit valves for the control of heating zones, air secondary-treatment appliances or fan convectors. Assembly of valve and drive is possible by simply screwing together.
Valve body of gunmetal, with pipe-thread connection; spindle of stainless steel with soft-sealing valve disk; stuffing box with double O-ring seal; length of valve body as per DIN 3841 T1.


T04192


T04196

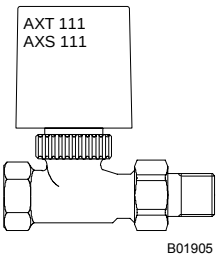
Type	Nominal diameter DN	k_{VS}-value m³/h	Δp_{max} [1] bar	Nickel-plated body	Weight kg
VXL 025 F200 [2]	25	5.5	1.0	no	0.96
With variable k_{VS} value					
VXL 010 F260	10	0.04...0.72	2	yes	0.29
VXL 010 F250	10	0.25...1.7	1	yes	0.29
VXL 015 F260	15	0.04...0.72	2	yes	0.31
VXL 015 F250	15	0.25...1.85	1	yes	0.31
VXL 020 F260	20	0.04...0.72	2	yes	0.43
VXL 020 F250	20	0.25...1.95	1	yes	0.43
Pressure-relieved through valves					
VXL 025 F201 [2]	25	5.5	4	no	1.0
VXL 032 F201 [2]	32	10.0	3.5	no	1.5
Angle valve					
VXL 010 F510	10	0.36	2.2	yes	0.23
VXL 010 F500	10	0.8	2.2	yes	0.23
VXL 015 F520	15	0.8	2.2	yes	0.28
VXL 015 F510	15	2.2	4	yes	0.28
VXL 015 F500 [2]	15	5.0	0.9	no	0.45
VXL 020 F500 [2]	20	7.0	0.8	no	0.58


Y07544



B01591

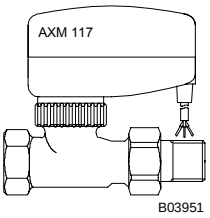
Nominal pressure	PN 16	Perm. operating temp.	2...130 °C
Type of construction	DIN 3841-D	Dimension drawing	5M111, 5M112
Max. operating pressure	16 bar at 130 °C	Fitting instructions	MV 505261
Characteristic curve	linear	fitted onto AXT 111	MV 505511
Leakage rate	0.0001% of k_{VS}	with auxiliary contacts	MV 505822
Valve stroke	2.5 mm	fitted onto AXM 117/117S	MV 505456
		fitted onto AXM 117 F200	MV 505816



B01905

Accessories

0378038 001 K_{VS} adjustment key for VXL...F260



B03951

1) Permissible pressure difference in bar at which the drive can still firmly close the valve.
2) Not suitable for assembling with AXS 111S

Operation

The valve is closed (passage A-AB) by depressing the spindle, which is returned by spring pressure. The AXT 111 thermal drive allows the valve to be moved to the OPEN or CLOSED position. With the AXS 111 continuous drive for unit valves or the AXM 117 motorised drive for unit valves, the valve can be moved to any position. On the AXM 117S (with positioner), the valve is positioned continuously by means of a control voltage of 0...10 V. As the control voltage rises, the F202 opens and the F302 closes.

Engineering and fitting notes

The final control element can be fitted in any position except facing downwards.
The ingress of condensate, dripping water etc. into the drive should be prevented.
In order to prevent cavitation noise from affecting rooms where quietness is essential, the pressure difference across the valve should not exceed 0.5 bar.

Settings in kvs-value m³/h

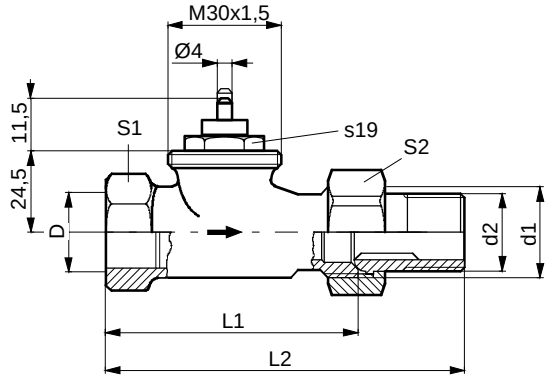
Scale	1	2	3	4	5	6	7	8	max.
VXL . . . F260	0.04	0.09	0.22	0.35	0.43	0.51	0.62	0.72	–
VXL010 F250	0.25	0.50	0.70	1.00	1.25	–	1.50	–	1.70
VXL015 F250	0.25	0.50	0.70	1.00	1.25	–	1.50	–	1.85
VXL020 F250	0.25	0.50	0.70	1.00	1.25	–	1.50	–	1.95

To make adjustments, see MV 505261

Additional information

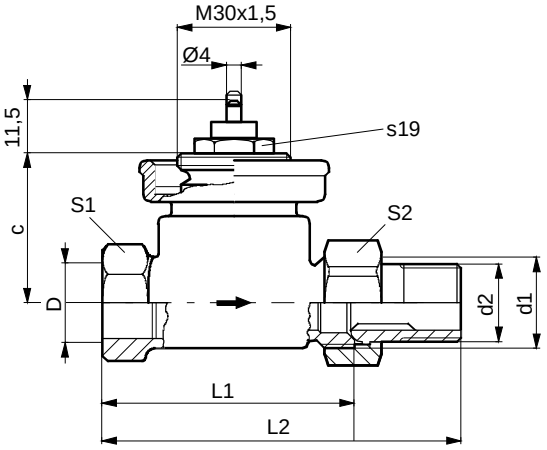
Valve input with female thread for thread-sealing pipes; output with male thread for the following connecting parts (supplied): nickel-plated cap nut and conically-sealing connecting nipple with male thread for DN 10...25; flat sealing with EPDM gasket for DN 32.

Dimension drawings 5M111



Type	F-Nr.	DN	D	d1	d2	L1	L2	S2	S2
VXL 010	F250 / F260	10	Rp 3/8	G 5/8	R 3/8	59	85	22	27
VXL 015	F250 / F260	15	Rp 1/2	G 3/4	R 1/2	66	95	27	30
VXL 020	F250 / F260	20	Rp 3/4	G 1	R 3/4	74	106	30	32

M01890e

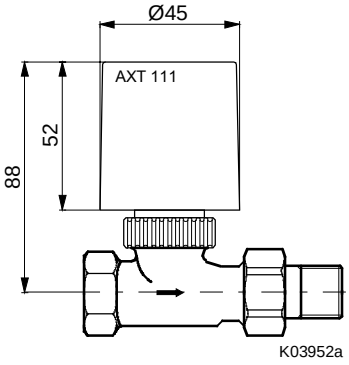


Type	DN	D	d1	d2	L1	L2	S1	S2	c
VXL 025 F200	25	Rp 1	G1¼	R 1	90	22	43	47	40

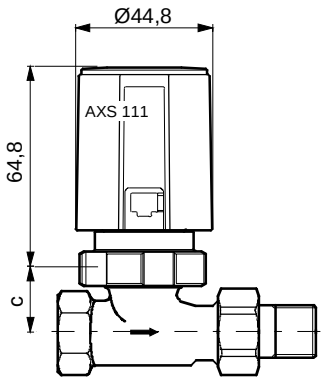
VXL 025 F201	25	Rp 1	G1¼	R 1	90	122	43	47	42,5
VXL 032 F201	32	Rp1¼	G1½	R1¼	110	146	50	52	61,5

M01891d

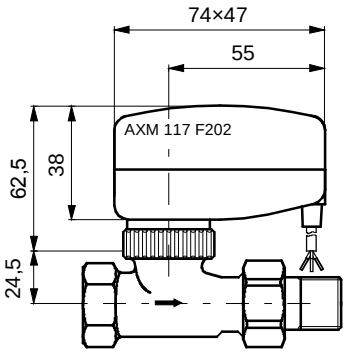
Combinations with AXT, AXS thermal drive and AXM motorised drive



K03952a



K10182



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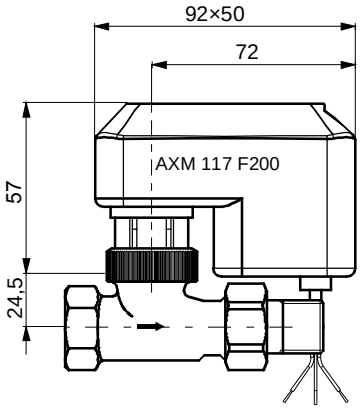

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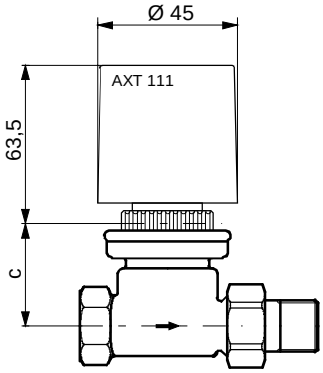

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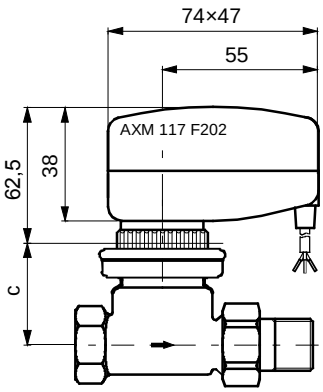

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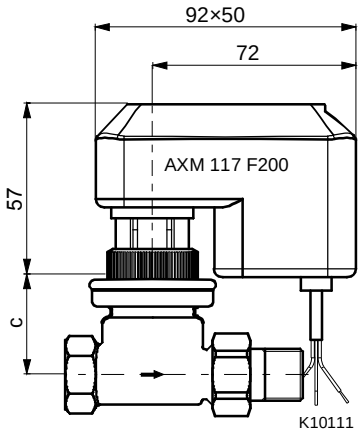
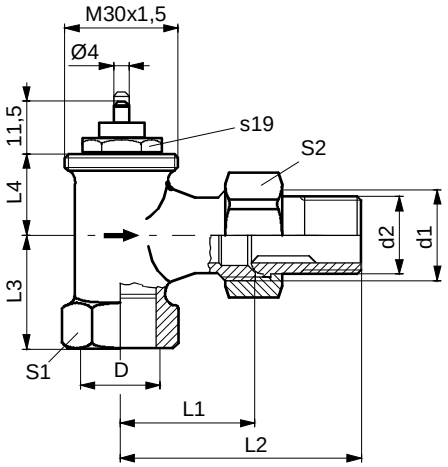


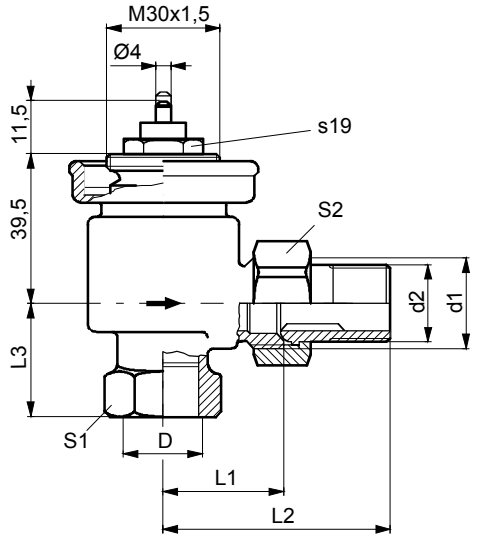
K10111

Dimension drawings 5M112



Type	F-Nr.	DN	D	d1	d2	L1	L2	L3	L4	S1	S2
VXL 010	F500 / F510	10	Rp 3/8	G 5/8	R 3/8	26	52	20	22	22	27
VXL 015	F510 / F520	15	Rp 1/2	G 3/4	R 1/2	29	58	20	27	27	30

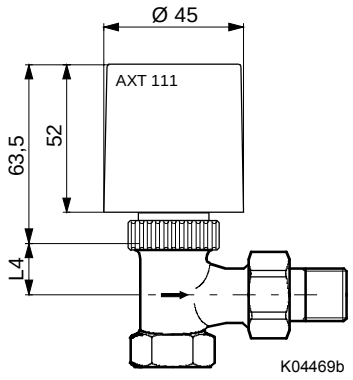
M04467c



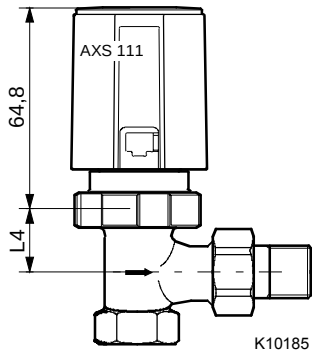
Type	DN	D	d1	d2	L1	L2	L3	S1	S2
VXL 015 F500	15	Rp 1/2	G 3/4	R 1/2	32	60	30	27	30
VXL 020 F500	20	Rp 3/4	G 1	R 3/4	36	67	34	30	32

M04468a

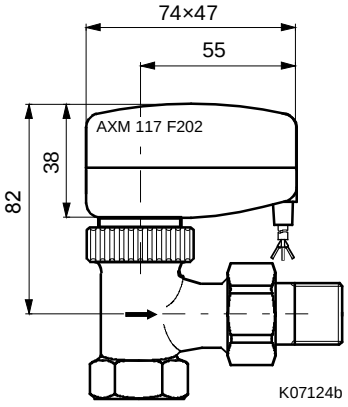
Combinations with AXT, AXS thermal drive and AXM motorised drive.



K04469b



K10185



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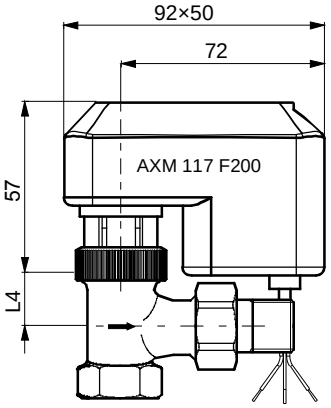

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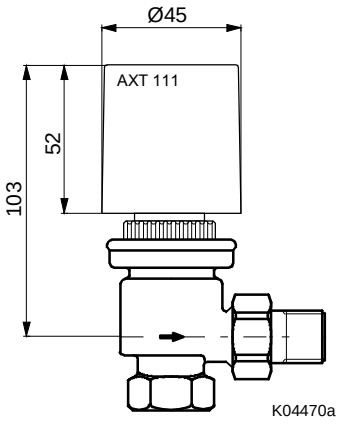

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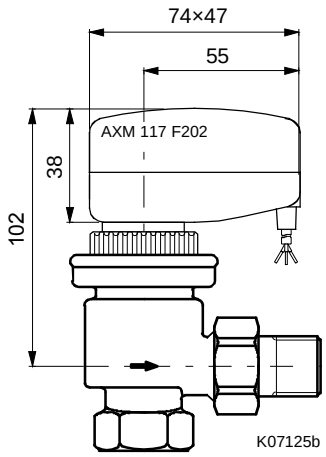

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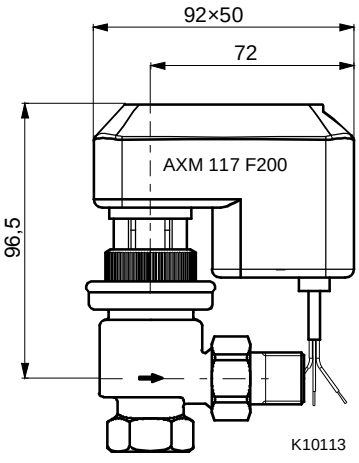

K10113

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N.B.: A comma between cardinal numbers denotes a decimal point

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