

SMART VALVE SVM-21

SMART M-BUS VALVE (FLANGED)



Features:

- Easy and fast installation
- End limit switch
- No connecting rod required
- Precise valve positioning with manual operator
- Forward and reverse action
- Synchronous motor
- Anti-corrosion design

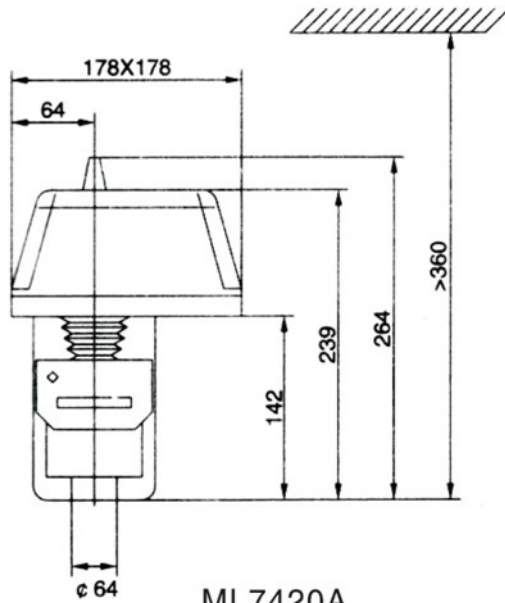
TECHNICAL DATA

Model	ML7420A	ML7421B
Drive thrust	1500 n	2500 n
Travel time	When the frequency is 50 Hz, 114 seconds When the frequency is 60 Hz, 95 seconds	When the frequency is 50 Hz, 210 seconds When the frequency is 60 Hz, 175 seconds
Effective stroke	20/40mm	20/40mm
Power	Max.12VA (When Input Voltage is 24VAC)	
Signal source output resistance	1KΩ	
Protection level	IP54	
Electrical characteristics	24VAC 50/60 HZ	
Materials used	Gear: polyoxymethylene, nylon	
	Lower plate of reducer: galvanized steel	
	Support: die cast aluminum alloy	
	Shell: flame retardant ABS plastic	
Temperature limit	Ambient temperature: -10~+50 °C Storage temperature: -40~+50 °C	
Humidity	1%~95% RH, No condensation	
Fluid temperature	<150 °C	
Weight	2.4Kg	
Communication	M-Bus	

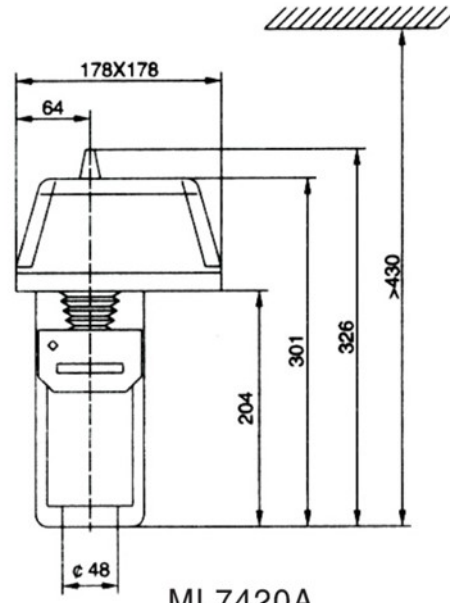
VALVE BODY SPECIFICATION

Pressure bearing of valve body (Bar)	PN16
Valve body	Visijet (HT250)
Valve cover	Carbon Structural Steel (Q235A)
Valve clack	Stainless Steel 304
Valve stem	1Cr18Ni9(AISI302) Φ9 stainless steel
Shaft seal	Brass
Velocity characteristics	Equal percentage
Stem seal parts	PTFE retaining ring + NBR O-ring
Maximum fluid temperature	90 °C
Minimum fluid temperature	10 °C
Valve end specification	PN16 flanged

DIMENSIONS



ML7420A
ML7421B



ML7420A
ML7421B

VALVE BODY SIZE & WEIGHT

PATTERN	MODEL	SIZE DN	L (mm)	H (mm)	D (mm)	b (mm)	a (mm)	f (mm)	FLANGE HOLES
	VB-7200 PN16	50	205	227	165	20	125	18	4
		65	220	135	185	20	145	18	4
		80	240	155	200	22	160	18	8
		100	240	152	215	24	180	18	8
		125	320	160	250	26	210	18	8
		150	350	175	285	26	240	22	8
		200	400	225	340	30	295	22	12
		250	460	255	405	32	355	26	12
		300	500	276	460	32	410	26	12
	VB-7300 PN16	65	250	110	185	20	145	18	4
		80	300	130	200	22	160	18	8
		100	320	132	215	24	180	18	8
		125	340	134	250	26	210	18	8
		150	355	150	285	26	240	22	8
		200	460	200	340	30	295	22	12
		250	565	360	405	32	355	26	12
		300	620	380	460	32	410	26	12

SOFTWARE INTERFACE

The screenshot displays the 'Valve Control Tool' software interface. It features a main window with two tabs: 'Valve Control' and 'Data Query'. The 'Data Query' tab is active, showing a table with the following data:

S	Meter address	Apartment number	Valve status
<input checked="" type="checkbox"/>	00000021022718	1-101	valve open, forced opening valve
<input checked="" type="checkbox"/>	000000000000101	1-102	valve abnormal,

On the right side of the interface, there are three control panels:

- Serial port:** A dropdown menu currently set to 'COM11'.
- Address:** An empty text input field.
- Apartment number:** An empty text input field.
- Buttons:** 'Add' and 'Address Import' buttons.
- Valve control:** A dropdown menu set to 'Forced valve opening'.
- Buttons:** 'Valve Control', 'Read Valve Status' (highlighted in orange), and 'System Timing' buttons.