

Magnetic Valves



A-229

Valves

Magnetic Valves use magnetic actuation to enhance response time and provide stability. Large signal changes switch the actuator to the large signal band, allowing high-gain response to quickly position the valve element. Small signal changes switch the actuator to the small signal band to provide loop stability and precise positioning.

Note: To use any current magnetic valve with phase cut control signal use SEZ91.6 signal converter.

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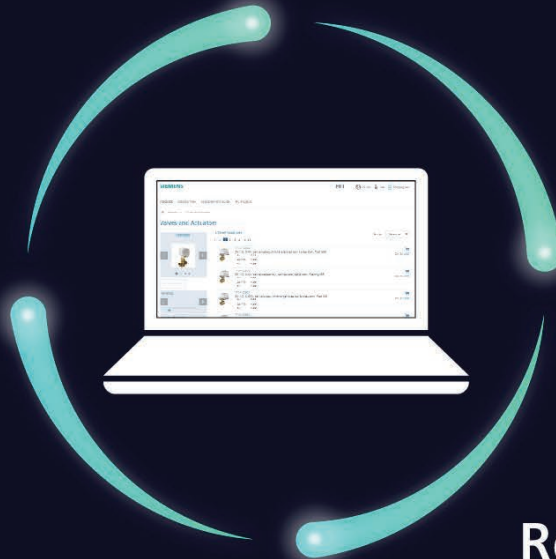
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A-230

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SIEMENS

Control Valves for Hot and Chilled Water



MXG461...U
Magnetic Control Valve

A-231

Valves

Description

The Magnetic MX.. Mixing Valve uses magnetic actuation to enhance response time and provide stability. Large signal changes switch the actuator to the large signal band, allowing high-gain response to quickly position the valve element. Small signal changes switch the actuator to the small signal band to provide loop stability and precise positioning.

Features

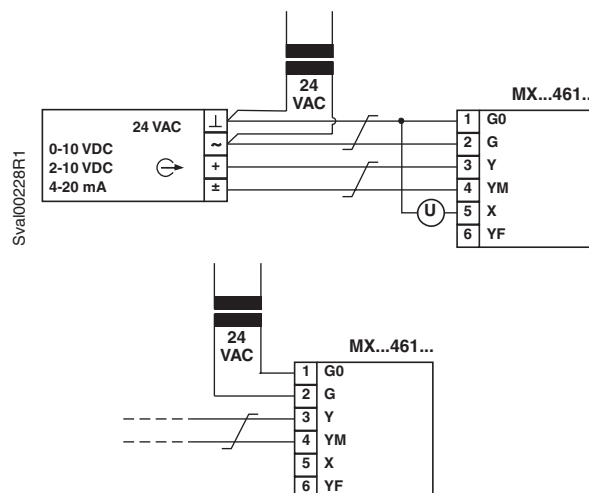
- Fast positioning time (< 2 seconds)
- 1000:1 resolution
- Magnetic actuation
- No maintenance
- Manual override
- Auto calibration
- Dip switch selectable signal input (0 to 10 V or 4 to 20 mA)
- Dip switch selectable flow characteristic
- Built-in position feedback

Applications

The Magnetic MX.. Mixing Valve is designed for modulating control of chilled water and hot water and is well suited for HVAC systems.

The valves can be configured for straight-through or 3-way applications and can be used in closed loop applications. Valves are shipped with NPT screwed fittings. A flanged version is also available in the 2-1/2" line size.

Wiring Diagram



Connection to Controller with Four-wire Output

Ⓢ = Indication of valve position (only where required).
0 to 10 Vdc → 0 to 100% volumetric flow

Specifications

Operating Voltage	Vac/dc ±20%
Typical Power Consumption	
1/2 - 1-1/4"	5w
1-1/2 - 2-1/2"	6w
Frequency	45-65 Hz
Control Signals	0 to 10 Vdc, 2 to 10 Vdc, or 4 to 20 mA
Position Feedback Signal	0 to 10 Vdc; Load Resistance > 500 Ω
Materials	
Body	Cast Iron
Plug	CrNi Steel
Seat	Brass
Bellows	Tombac, Bronze, CrNi Steel

Packing	
Normal Duty	EDPM (O-ring)
Max. Differential Pressure	44 PSI
Temperature of Medium	34° to 266°F (1° to 130°C)
Resolution	1000:1
Position with Actuator De-energized	A → AB Closed
Positioning Time	<2 Seconds
Agency Approvals	UL 873, cUL, CSA C22.2 No. 24
Flow Characteristic (Selectable)	Equal Percentage or Linear
Environmental Protection	NEMA Type 1

A-232

Sizing

Part No.	Line Size (in.)	Cv	Max. Close-off Pressure (PSI)	Power for Transformer Sizing (VA)	Power Consumption (W)	Fuse Required (A)	Wire Gauge			
							18	16	14	12
							Max. Cable Length (ft.)			
MXG461.15-0.6U	1/2	0.7	44	29	5	3.15	108	213	361	525
MXG461.15-1.5U	1/2	1.7	44	29	5	3.15	108	213	361	525
MXG461.15-3.0U	1/2	3.5	44	29	5	3.15	108	213	361	525
MXG461.20-5.0U	3/4	5.8	44	29	5	3.15	108	213	361	525
MXG461.25-8.0U	1	9.3	44	29	5	3.15	108	213	361	525
MXG461.32-12U	1-1/4	14	44	29	5	3.15	108	213	361	525
MXG461.40-20U	1-1/2	23	44	44	6	4.00	66	118	197	328
MXG461.50-30U	2	35	44	44	6	4.00	66	118	197	328
MXF461.65-50U	2-1/2	58	44	46	6	5.00	49	98	164	262

Table Notes:

*All data relates to a supply of 24 Vac.

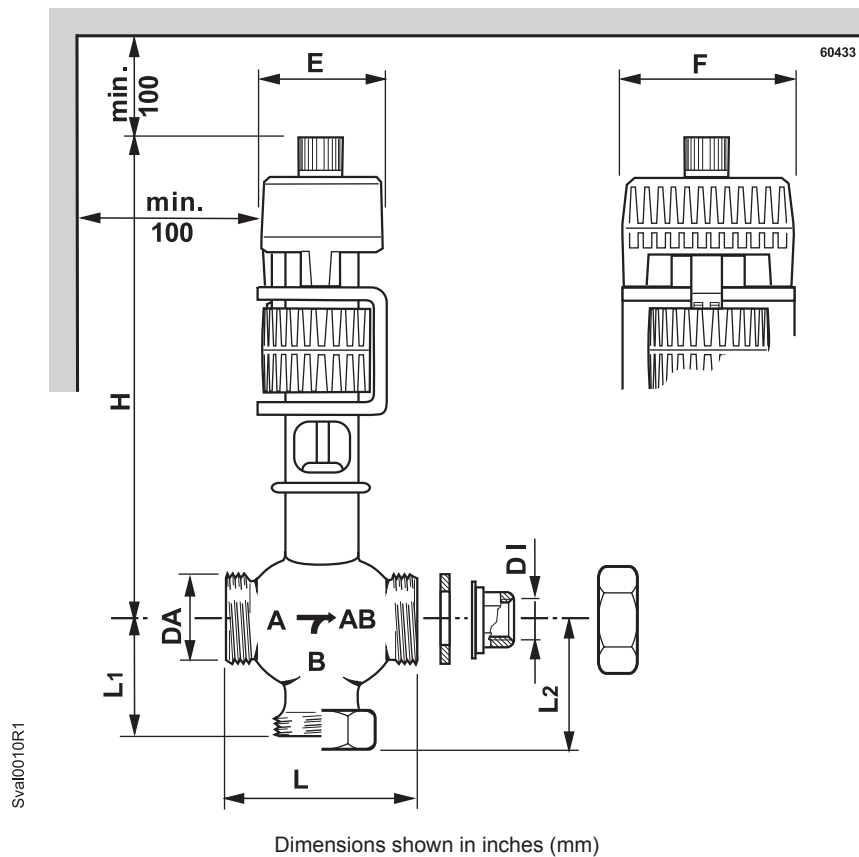
Product Ordering

Valve Size	Cv	Part No.
NPT Union		
1/2"	0.7	MXG461.15-0.6U
1/2"	1.7	MXG461.15-1.5U
1/2"	3.5	MXG461.15-3.0U
3/4"	5.8	MXG461.20-5.0U
1"	9.3	MXG461.25-8.0U
1-1/4"	14	MXG461.32-12U
1-1/2"	23	MXG461.40-20U
2"	35	MXG461.50-30U
Flanged		
2-1/2"	58	MXF461.65-50U*

Table Notes:

*No blanking flange

MX.461...U Valves with Electronics Module



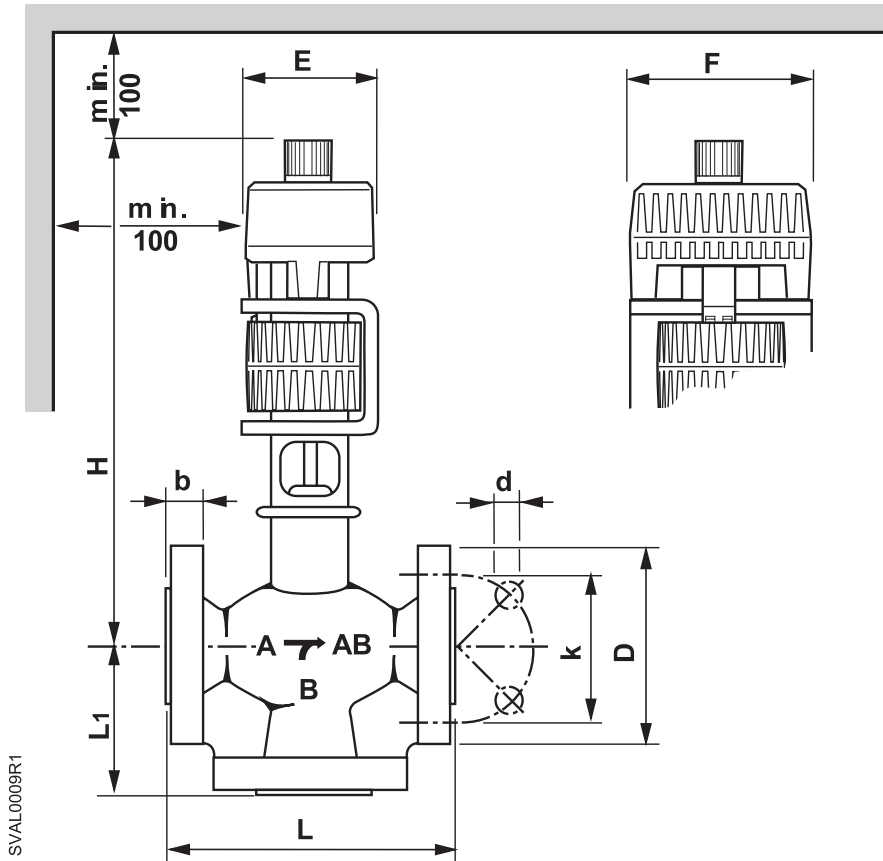
Part No.	DI	DA	L	L1	L2*	H	E	F	Weight lb. (kg)
MXG461.15-0.6U	1/2	1	3.15 (80)	1.67 (42.5)	2.01 (51)	9.45 (240)	3.15 (80)	3.94 (100)	8.4 (3.8)
MXG461.15-1.5U	1/2	1	3.15 (80)	1.67 (42.5)	2.01 (51)	9.45 (240)	3.15 (80)	3.94 (100)	8.4 (3.8)
MXG461.15-3.0U	1/2	1	3.15 (80)	1.67 (42.5)	2.01 (51)	9.45 (240)	3.15 (80)	3.94 (100)	8.4 (3.8)
MXG461.20-5.0U	3/4	1-1/4	3.74 (95)	2.07 (52.5)	2.40 (51)	10.24 (260)	3.15 (80)	3.94 (100)	9.3 (4.2)
MXG461.25-8.0U	1	1-1/2	4.33 (110)	2.22 (56.5)	2.56 (65)	10.63 (270)	3.15 (80)	3.94 (100)	10.4 (4.7)
MXG461.32-12U	1-1/4	2	4.92 (125)	2.66 (67.5)	2.99 (76)	11.22 (285)	3.15 (80)	3.94 (100)	12.3 (5.6)
MXG461.40-20U	1-1/2	2-1/4	5.51 (140)	3.17 (80.5)	3.70 (94)	12.60 (320)	3.94 (100)	4.72 (120)	20.5 (9.3)
MXG461.50-30U	2	2-3/4	6.69 (170)	3.68 (93.5)	4.29 (109)	13.39 (340)	3.94 (100)	4.72 (120)	26.2 (11.9)

Table Notes:
*When used as a straight-through valve

MX.461...U Flanged Valves with Electronics Module

A-234

Valves



Dimensions shown in inches (mm)

Part No.	L	L1	D	b	k	d 4X	H	E	F	Weight lb. (kg)
MXF461.65-50U	11.42 (290)	4.92 (125)	7.00 (177.8)	0.88 (22.4)	5.50 (139.7)	0.75 (19.05)	15.43 (392)	3.15 (80)	3.94 (100)	63.1 (28.6)

Control Valves for Hot and Chilled Water with ZM Signal Module



Magnetic M3P...FY
Mixing Valve with Actuator

A-235

Valves

Description

The Magnetic M3P...FY valve uses a magnetic actuator to positively position with extremely high speed and accuracy. The combination of >1000:1 resolution and full range positioning in less than one second allows exceptional loop stability and reaction time.

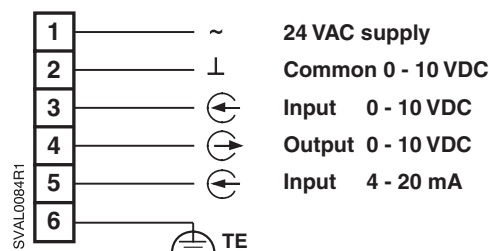
Features

- Fast positioning time (< 1 second)
- >1000:1 resolution
- Magnetic actuation
- No periodic maintenance
- Manual override
- Built-in position control and feedback
- Low friction, heavy-duty and maintenance free

Applications

The Magnetic M3P...FY Mixing Valve is designed for modulating control of chilled water and hot water, especially in HVAC systems. The valves are also configured for straight-through applications. The valves may be shipped with flanged fittings: 2BN is two-way with Companion Flange Kit, and 3BN is three-way with Companion Flange Kit. The valves are used in closed loop applications.

Wiring Diagram



Specifications

Operating Voltage 24 Vac

Nominal Power

3" 80 VA (20w)

4" 120 VA (30w)

Frequency 50/60 Hz +15/-10%

Control Signals 0 to 10 Vdc or 4 to 20 mA

Position Feedback Signal 0 to 10 Vdc

Materials

Body Cast Iron

Plug CrNi Steel

Seat Brass

Packing

Normal Duty EDPM (O-ring)

Max. Differential Pressure 44 PSI (3 in.)
29 PSI (4 in.)

Water Temperature 35° to 248°F (2° to 120°C)

Ambient Temperature 35° to 122°F (2° to 50°C)

Resolution >1000:1

Position with Actuator De-energized A → AB Closed

Positioning Time <1 Second

Agency Approvals UL 873, cUL, CSA C22.2 No. 24

Flow Characteristic Linear

Environmental Protection NEMA Type 1

A-236

Sizing

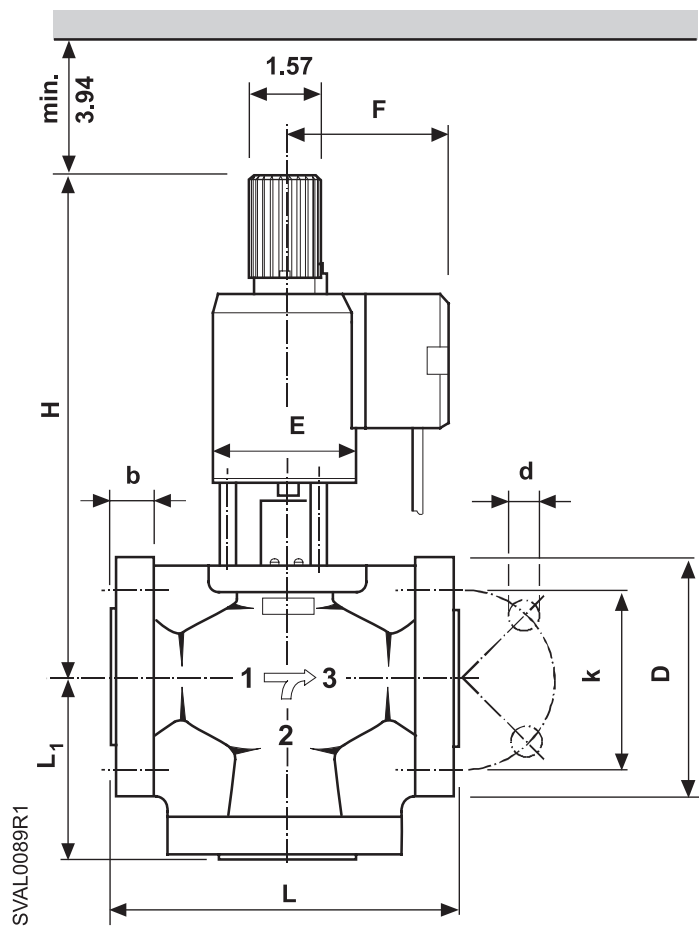
Part No.	Valve Size (in.)	Cv	Max. Differential Pressure and Close-off		Power for Transformer Sizing (VA)	Power Consumption (W)	Wire Gauge (AWG)		
			(PSI)	(bar)			16	14	12
							Max. Wiring Length (ft.)		
M3P80FY	3	93	44	3	80	20	33	52	89
M3P100FY	4	152	29	2	120	30	20	33	56

Product Ordering

Description	Cv	Part No.
3" 3-way	93	M3P80FY
4" 3-way	152	M3P100FY

Valves

M3P...FY Control Valve



Dimensions shown in inches (mm)

Part No.	L	L1	D	b	k	d	H	E	F	Weight lb. (kg)
M3P80FY	12.20 (310)	5.51 (140)	7.87 (200)	0.87 (22)	6.30 (160)	8x 0.71 (8x18)	20.00 (508)	5.71 (145)	4.88 (124)	100.0 (45.5)
M3P100FY	13.78 (350)	6.30 (160)	8.66 (220)	0.94 (24)	7.09 (180)	8x 0.71 (8x18)	22.44 (570)	5.71 (145)	4.88 (124)	130.0 (59.0)

Table Notes:
Counter flanges are not supplied. Flange dimensions to DIN2533, PN16

A photograph of two men in a server room. They are both wearing blue polo shirts and blue jeans. The man on the left is holding a laptop, and the man on the right is pointing at the screen. They are standing in front of large, silver, cylindrical server racks. The room has a clean, industrial look with a light-colored floor.

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Modulating Control Valves

with Magnetic Actuators, Positioning Control and Position Feedback for Hot Water and Steam



MVF461H Series Magnetic Control Valve

A-239

Valves

Description

MVF461H Series Modulating Control Valves are control valves with magnetic actuators, for modulating control of hot water, high temperature hot water, and steam.

Features

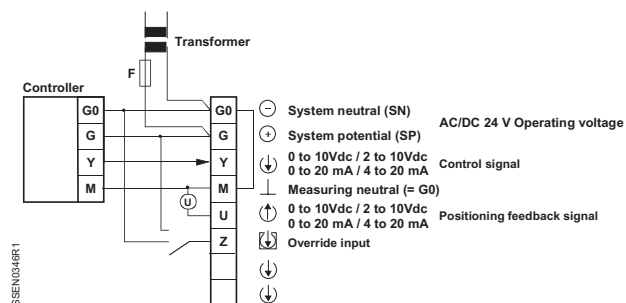
- Fast positioning time (< 2 seconds)
- Selectable valve characteristic: Equal percentage or linear
- Selectable standard interface: 0/2 to 10 Vdc or 0/4 to 20 mA
- High resolution (>1000:1)
- High rangeability
- Wear-free inductive stroke measurement
- Spring return fails closed when de-energized
- Positioning control and position feedback signal
- Low-friction, heavy-duty and maintenance-free

Applications

The MVF461H... Control Valves are through-port valves with magnetic actuators. The actuator is equipped with an electronics module for positioning control and position feedback. If the power is off, the valve fails closed.

The short positioning time, high resolution and high rangeability make these valves ideal for proportional control of district heating stations, and heating applications using high temperature hot water and steam.

Wiring Diagram



Specifications

Electrical

Low-voltage Use Only Class 2 (SELV, PELV)

24 Vac

Operating Voltage 24 Vac +20/-15%
Frequency 45 to 65 Hz
Typical Power Consumption See Sizing Table
Standby <1 W (Valve Fully Closed)
Nominal Apparent Power See Sizing Table
Suitable Fuse Slow

24 Vdc

Operating Voltage 20 to 30 Vdc

Functional Data of Actuator

Input

Positioning Signal Y 0/2 to 10 Vdc, 0/4 to 20mA
Impedance
0/2 to 10 Vdc 100 k Ω /5nF
0/4 to 20 mA 240 Ω /5nF

Forced Control

Impedance 22 k Ω
Closing the Valve (Z Connected to G0) <1 Vac; <0.8 Vdc
Opening the valve (Z Connected to G0) >6 Vac; >5 Vdc
No Function (Z Not Wired) Positioning Signal Y Active

Output

Position Feedback Signal Voltage 0/2 to 10 Vdc;
Load Resistance > 500 Ω
Current 0/4 to 20 mA;
Load Resistance < 500 Ω
Stroke Measurement Inductive
Nonlinearity $\pm$ 3% of End Value

Functional Data of Valve

Nominal Pressure ANSI 125 (PN 16)
Perm. Operating Pressure¹ Water up to 248°F (120°C)
232 psig (16 bar)
Water Above 248°F (120°C):
188 psig (13 bar)
Saturated Steam: 130 psig (9 bar)

Pressure Differential Δ pmax/ Δ ps 145 PSI (10 bar)

Materials

Body Nodular Cast Iron
Cover Flange Nodular Cast Iron
Seat/Inner Valve Stainless Steel

Packing

Normal Duty EDPM (O-ring)

Electrical Connections

Cable Entries 3 x M20 x 1.5 or PG13.5/G1/2
Connection Terminals Screw Terminals for up to 12 AWG Wires
(0.75 mm² Min. Cross-sectional Area³)

Max. Pressure

Max. Differential Pressure 145 PSI

Media Temperature

..... 34° to 356°F (1° to 180°C)

Ambient Conditions

Temperature
Operation and Storage 23° to 113°F (-5° to 45°C)
Transport -13° to 158°F (-25° to 70°C)
Humidity 5 to 95% rh (Non-condensing)

Resolution 1000:1

Position with Actuator De-energized Closed

Positioning Time <2 Seconds

Approvals

..... IP31 to IEC 529
Conforms to CE Requirements, UL 873,
Certified to Canadian Standard C22.2, No. 24, C-Tick N-474,
PED 97/23/EC: Pressure-carrying Parts
Par. 1, Section. 2.1.4 / Par. 3, Section 3 Fluid Group 2

Flow Characteristic Equal Percentage or Linear²

Environmental Protection NEMA Type 1

Notes:

¹Tested at 1.5 x PN (24 bar), similar to DIN 3230-3

²Can be selected via DIP switch.

³In case of strong vibrations, use high-flex stranded wires.

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Valves

Sizing

Part No.	Line Size (in.)	Cv	Max. Differential Pressure and Close-off (PSI)	Power for Transformer Sizing (VA)	Power Consumption (W)	Slow Fuse	Wire Gauge (AWG)		
							16	14	12
							Max. Wiring Length (ft.)		
MVF461H15-0.6	1/2	0.7	145	33	15	3.15	130	215	360
MVF461H15-1.5	1/2	1.8	145	33	15	3.15	130	215	360
MVF461H15-3	1/2	3.5	145	33	15	3.15	130	215	360
MVF461H20-5	3/4	5.9	145	33	15	3.15	130	215	360
MVF461H25-8	1	9.4	145	33	15	3.15	130	215	360
MVF461H32-12	1-1/4	14.0	145	43	20	4	100	165	260
MVF461H40-20	1-1/2	23.3	145	65	20	6.3	100	165	260
MVF461H50-30	2	35.0	145	65	26	6.3	65	100	165

Product Ordering

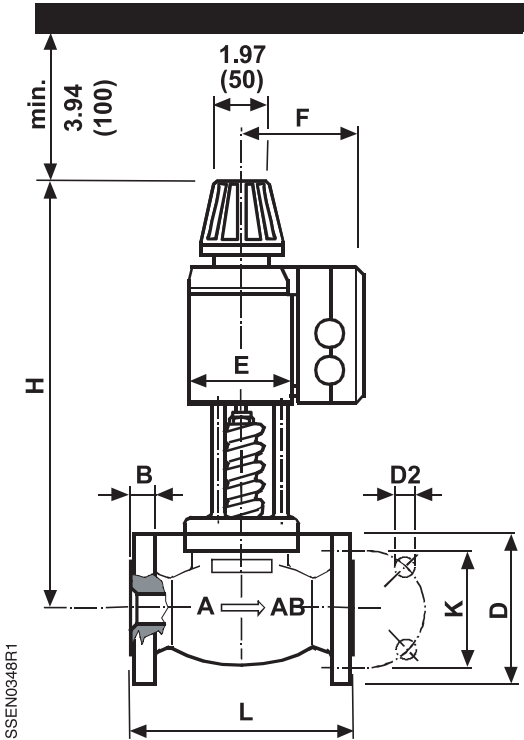
Valve Size (in)	Cv	Part No.
ISO Flanges Without Adapters		
1/2	0.7	MVF461H15-0.6
1/2	1.8	MVF461H15-1.5
1/2	3.5	MVF461H15-3
3/4	5.9	MVF461H20-5
1	9.4	MVF461H25-8
1-1/4	14.0	MVF461H32-12
1-1/2	23.3	MVF461H40-20
2	35.0	MVF461H50-30

Ordering Notes:

- When placing an order, specify the quantity, product number and description.
- The valve body and magnetic actuator assemblies cannot be separated.

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Valves



Dimensions shown in inches (mm)

Part No.	DN	L	D	D2	B	K	H	E	F	Weight lb. (kg)
MVF461H15-0.6	15	5.12 (130)	3.74 (95)	4 x 0.55 (4x14)	0.55 (14)	2.56 (65)	13.4 (340)	3.15 (80)	4.53 (115)	18.3 (8.3)
MVF461H15-1.5	15	5.12 (130)	3.74 (95)	4 x 0.55 (4x14)	0.55 (14)	2.56 (65)	13.4 (340)	3.15 (80)	4.53 (115)	18.3 (8.3)
MVF461H15-3	15	5.12 (130)	3.74 (95)	4 x 0.55 (4x14)	0.55 (14)	2.56 (65)	13.4 (340)	3.15 (80)	4.53 (115)	18.3 (8.3)
MVF461H20-5	20	5.91 (150)	4.13 (105)	4 x 0.55 (4x14)	0.63 (16)	2.95 (75)	13.3 (339)	3.15 (80)	4.53 (115)	19.6 (8.9)
MVF461H25-8	25	6.30 (160)	4.53 (115)	4 x 0.55 (4x14)	0.63 (16)	3.35 (85)	13.6 (346)	3.15 (80)	4.53 (115)	22.1 (10.0)
MVF461H32-12	32	7.09 (180)	5.51 (140)	4 x 0.71 (4x18)	0.71 (18)	3.94 (100)	15.12 (384)	3.94 (100)	4.92 (125)	34.6 (15.7)
MVF461H40-20	40	7.87 (200)	5.91 (150)	4 x 0.71 (4x18)	0.71 (18)	4.33 (110)	15.79 (401)	3.94 (100)	4.92 (125)	39.2 (17.8)
MVF461H50-30	50	9.05 (230)	6.50 (165)	4 x 0.71 (4x18)	0.79 (20)	4.92 (125)	17.58 (449)	4.92 (125)	5.43 (138)	60.0 (27.2)

Table expressed in inches (mm).

Modulating Control Valves

with Magnetic Actuators, Positioning Control and Position Feedback for Domestic Water



MXG461B Series Modulating Control Valve

A-243

Description

The MXG461B Modulating Control Valve is a control valve with magnetic actuator, for modulating control of domestic water, cold water and hot water systems.

Features

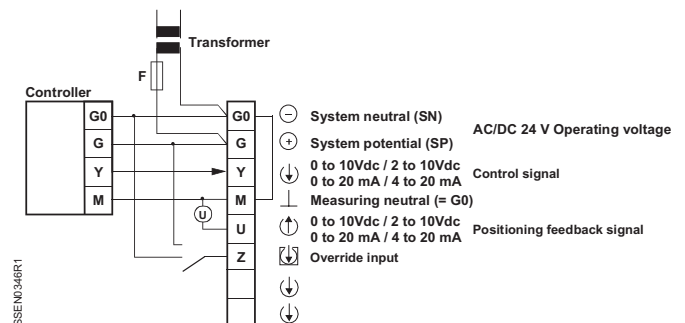
- Fast positioning time (< 2 seconds)
- Selectable valve characteristic: Equal percentage or linear
- Selectable control signal: 0/2 to 10 Vdc or 0/4 to 20 mA
- High resolution (>1000:1)
- High rangeability
- Wear-free inductive stroke measurement
- Spring return A → AB closed when de-energized
- Positioning control and position feedback signal
- Low-friction, heavy-duty and maintenance-free

Applications

The MXG461B... Modulating Control Valves are through-port or mixing valves with magnetic actuators. The actuator is equipped with an electronics module for positioning control and position feedback. If the power is off, the valve control path A → AB is closed.

The short positioning time, high resolution and high rangeability make these valves ideal for modulating control of domestic, hot and cold water systems.

Wiring Diagram



Valves

Specifications

Electrical

Low-voltage Use Only Class 2 (SELV, PELV)

24 Vac

Operating Voltage 24 Vac +20/-15%
Frequency 45 to 65 Hz
Typical Power Consumption See Table 1
Standby <1 W (Valve Fully Closed)
Nominal Apparent Power See Sizing Table
Suitable Fuse Slow, See Table 1

24 Vdc

Operating Voltage 20 to 30 Vdc

Functional Data of Actuator

Input

Positioning Signal Y 0/2 to 10 Vdc or 0/4 to 20 mA
Impedance
0/2 to 10Vdc 100 kΩ/5nF
0/4 to 20 mA 240 Ω/5nF

Forced Control

Impedance 22 kΩ
Closing the Valve (Z Connected to G0) <1 Vac; <0.8 Vdc
Opening the Valve (Z Connected to G0) >6 Vac; >5 Vdc
No Function (Z Not Wired) Positioning Signal Y Active

Output

Position Feedback Signal Voltage 0/2 to 10 Vdc;
Load Resistance > 500Ω
Current 0/4 to 20 mA;
Load Resistance < 500Ω
Stroke Measurement Inductive
Nonlinearity ±3% of End Value

Functional Data of Valve

Nominal Pressure ANSI 125 (PN 16)
Operating Pressure $p_{e\max}^1$ 232 PSI (16 bar)
Pressure Differential $Dp_{y\max}$ See Sizing Table.
Leakage A → AB Maximum 0.05% Cv
B → AB Depends on Application Data
(0.2% Cv)
Water Temperature² -4° to 266°F (-20° to 130°C)
Valve Characteristic³ Equal Percentage or Linear, Optimized
Near the Closing Point

Resolution 1:1000

Type of Operation Modulating

Position De-energized A → AB Closed

Orientation Upright to Horizontal

Positioning Time < 2 Seconds

Materials

Body Red Bronze
Cover Flange Red Bronze
Seat/Inner Valve Stainless Steel

Packing

Normal Duty EPDM (O-ring)

Pipe Connections Screwed Fittings, Bronze/Brass

Electrical Connections

Cable Entries 3 x M20 x1.5 or PG13.5/G1/2
Connection Terminals Screw Terminals for 12 AWG Wires
Min. Cross-sectional Area⁴ 18 ga. AWG
Max. Cable Length Refer to Sizing Table.

Ambient Conditions

Temperature
Operation and Storage 23° to 113°F (-5° to 45°C)
Transport -13° to 158°F (-25° to 70°C)
Humidity 5 to 95% rh

Agency Approvals IP31 to IEC 529

Conforms to CE Requirements, UL 873,
Certified to Canadian Standard C22.2 No. 24, C-Tick N-474,
PED 97/23/EC: Pressure-carrying Parts,
Par. 1, Section. 2.1.4 / Par. 3, Section 3, Fluid Group 2

Flow Characteristics Equal Percentage or Linear

Notes:

¹ Tested at 1.5 x PN (24 bar), similar to DIN 3230-3

² For medium temperatures <32°F (0°C), the Z366 stem heating element is required.

³ Can be selected via DIP switch.

⁴ In case of strong vibrations, use high-flex stranded wires.

Sizing

Part No.	Valve Size (in.)	Cv	Max. Close-off Pressure (PSI)	Power for Transformer Sizing (VA)	Power Consumption (W)	Slow Fuse	Wire Gauge (AWG)		
							16	14	12
MXG461B15-0.6	1/2	0.7	145	33	15	3.15	130	215	360
MXG461B15-1.5	1/2	1.8	145	33	15	3.15	130	215	360
MXG461B15-3	1/2	3.5	145	33	15	3.15	130	215	360
MXG461B20-5	3/4	5.8	116	33	15	3.15	130	215	360
MXG461B25-8	1	9.3	102	33	15	3.15	130	215	360
MXG461B32-12	1-1/4	14	87	43	20	4	100	165	260
MXG461B40-20	1-1/2	23	87	43	20	4	100	165	260
MXG461B50-30	2	35	87	65	22	6.3	65	100	185

Product Ordering

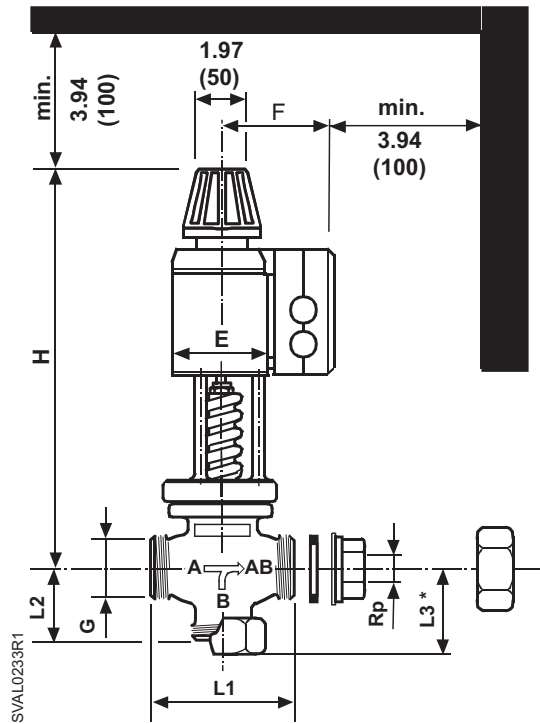
Valve Size (in)	Cv	Part No.
1/2	0.7	MXG461B15-0.6
1/2	1.8	MXG461B15-1.5
1/2	3.5	MXG461B15-3
3/4	5.8	MXG461B20-5
1	9.3	MXG461B25-8
1-1/4	14	MXG461B32-12
1-1/2	23	MXG461B40-20
2	35	MXG461B50-30

Ordering Notes:

- The valve body and magnetic actuator assemblies cannot be separated.
- The screwed fittings and gaskets are supplied with these valves.

A-245

Valves



Dimensions shown in inches (mm)

Part No.	Line Size In. (mm)	RP	G (in)	L1	L2	L3	H	E	F	Weight lb. (kg)
MXG461B15-0.6	1/2 (15)	1/2	G1B	3.15 (80)	1.67 (42.5)	1.97 (50)	13.4 (340)	3.15 (80)	4.53 (115)	15.65 (7.1)
MXG461B15-1.5	1/2 (15)	1/2	G1B	3.15 (80)	1.67 (42.5)	1.97 (50)	13.4 (340)	3.15 (80)	4.53 (115)	16.09 (7.3)
MXG461B15-3	1/2 (15)	1/2	G1B	3.15 (80)	1.67 (42.5)	1.97 (50)	13.4 (340)	3.15 (80)	4.53 (115)	16.09 (7.3)
MXG461B20-5	3/4 (20)	3/4	G1-1/4B	3.74 (95)	2.07 (52.5)	2.36 (60)	13.3 (339)	3.15 (80)	4.53 (115)	16.97 (7.7)
MXG461B25-8	1 (25)	1	G1-1/2B	4.33 (110)	2.22 (56.5)	2.52 (64)	13.6 (346)	3.15 (80)	4.53 (115)	18.73 (8.5)
MXG461B32-12	1-1/4 (32)	1-1/4	G2B	4.92 (125)	2.66 (67.5)	2.95 (75)	15.12 (384)	3.94 (100)	4.92 (125)	28.22 (12.8)
MXG461B40-20	1-1/2 (40)	1-1/2	G2-1/4B	5.51 (140)	3.17 (80.5)	3.66 (93)	15.79 (401)	3.94 (100)	4.92 (125)	32.19 (14.6)
MXG461B50-30	2 (50)	2	G2-3/4B	6.69 (170)	3.68 (93.5)	4.2 (108)	17.58 (449)	3.94 (100)	4.92 (125)	41.00 (18.6)

Table Notes:

- Table expressed in inches (mm).
- A: External thread G...B to ISO228/1
 - DN: Internal thread Rp to ISO7/1
 - Fittings to ISO 49/DIN 2950 (supplied complete with flange gaskets)