

# Water Temperature Control - Single Point of Use



## Digital

### Sense™ Model DMV2

Concealed digital mixing valve with surface mount control panel for individual shower flow and +/-2°F (+/-1°C) temperature control.

The Digital Mixing Valve (DMV) shall be of DZR brass/stainless steel/polymer with chrome surface mount control panel. DMV shall have NPT inlets and outlet with integral inlet spring loaded check valves and strainers. DMV shall be supplied with a power supply and wall mounted control panel.



### Operational Specifications

- Programmable timed flow
- No touch on/off flow control
- No touch temperature adjustment
- Programmable minimum/maximum temperature access limits
- Programmable service flush
- Programmable thermal disinfection mode
- Data logging capabilities

### Technical Specifications

- Inlet and outlet connections: 1/2" NPT
- Maintains mixed water temperatures +/-2°F at flow rates 1 to 7 gpm
- Delivers mixed water temperature within 2°F of either inlet supply temperature
- Instant automatic outlet shutdown upon either inlet supply failure
- Programmable temperature setpoint range 86°F - 117°F (min) and 91°F - 122°F (max)
- Programmable Thermal Disinfection option 140°F - 185°F for 0 - 50 minutes
- Operational water pressure of 10 - 145 psig

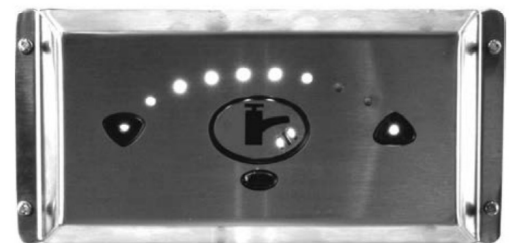


### Connectivity

DMV shall be supplied with a power supply and wall mounted control panel. Control panel shall be programmable using Bluetooth connectivity for flow and temperature adjustment and shall be capable of programmable timed flow and temperature control.

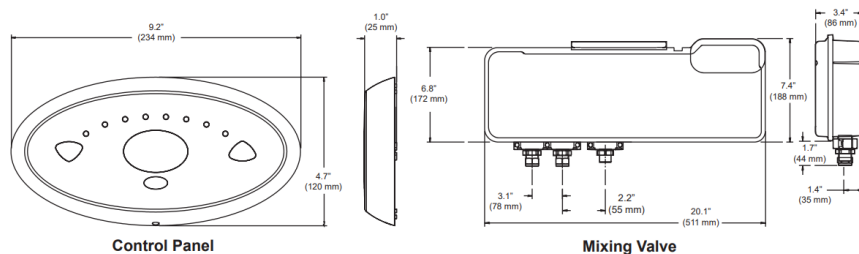
DMV shall have service flush with programmable thermal disinfection temperature range 140°F - 185°F for 0 - 50 minutes with data logging capabilities.

DMV shall be compliant with ASSE Standard 1016, CSA B125, and UL and shall be so certified and identified.



Optional Stainless Steel Control Panel Cover

For a submittal drawing, refer to D135730.



Sense™ Digital Mixing Valves												
Model	Pressure Drop (psi)										Min. Flow	C <sub>v</sub>
	5	10	15	20	25	30	35	40	45	50		
DMV1	3	4	5	6	6	7	7	8	9	9	1	1.2
DMV2	3	4	5	6	6	7	7	8	9	9	1	1.2
DMV23	6	8	10	11	12	14	15	16	17	18	1.6	2.5

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit [armstronginternational.com](http://armstronginternational.com) for up-to-date information.

## Digital

### Sense™ Model DMV2-Individual Shower

#### Technical Specifications

##### Connections

- Inlet and outlet connections: 1/2" NPT

##### Materials

- Control panel cover: Chrome ABS I
- Mixing unit enclosure: PC/ABS
- Integral components: DZR brass stainless steel and engineering plastic (Dezincification Resistant)

##### Temperatures

- Factory pre-set:  
Min 86°F (30°C), Max 106°F (41°C)  
Default 100°F (38°C)
- Programmable range:  
Min 86°F - 117°F (30°C - 47°C),  
Max 91°F - 122°F (33°C - 50°C),  
Default 86°F - 122°F (30°C - 50°C)  
Full cold can also be selected
- Minimum blend temperature differential from hot supply: 5°F (2°C)
- Optimum thermostatic control range:  
86°F - 122°F (30°C - 50°C)
- Inlet Cold water range (recommended):  
34°F - 68°F (1°C - 20°C)
- Inlet Hot water range (recommended):  
122°F - 149°F (50°C - 65°C )  
185°F (85°C) during disinfection

##### Performance

- Thermal shutdown upon inlet supply failure
- +/- 2°F (+/- 1°C) delivery temperature stability
- Minimum flow rate at recommended supply conditions:  
1 GPM (4 LPM) at <72 psi maintained pressure  
1.6 GPM (6 LPM) at >72 psi maintained pressure.

##### Thermal Disinfection

- Factory Settings  
Min. Temperature: 140°F (60°C)  
Min. Time: 5 minutes
- Programmable Range  
Min. Temperature: 140 - 185°F (60 - 85°C)  
Min. Time: 0 - 50 minutes  
Reduced water flow during disinfection can be selected.

##### Environment

- Ambient temperature: 34°F - 104°F (1°C - 40°C)
- Maximum relative humidity: 95% non-condensing Pressures
- Maximum static pressure: 145 psi (10 bar)
- Maximum inlet supply pressure differential: 3:1 (equal inlet pressures recommended)

##### Pressures

- Maximum static pressure: 145 psi (10 bar)
- Maximum inlet supply pressure differential: 3:1 (equal inlet pressures recommended)

##### IP Rating

- Control panel: IP45
- Overall valve enclosure: IP24
- Electronics compartment: IP45
- PSU: IP45

##### Electrical

- Supply Voltage: 120V 50-60Hz
- Maximum load: 20W at 12V DC
- Control panel cable length: 10 ft. (3m) supplied
- Maximum distance 20 ft. (6m)

##### Times - Factory settings

- Flow time: 15 seconds
- Service flush cycle: 2 minutes
- Service flush waiting period: 12 hours

##### Programmable range

- Flow time: 5 seconds - 60 minutes
- Service flush cycle: 1 minute - 59 minutes
- Service flush waiting period: 1 hour - 983 hours

##### Operation

- Temperature selector: Full no-touch temperature control
- Flow control: No-touch on/off - timed flow

##### Approvals

- ASSE 1016, CSA, UL

##### Shipping Weight

- 14.5 lbs