SHOWER VALVES AND ACCESSORIES

4500 Series Aquatrol®

PAM®II

7600 Showermaster®

6700 Series Advantage®

ASSE 1016
Made in the USA with Domestic and Imported Parts
Leonard Pressure Actuated Water Mixing Valves

- For shower and bath applications in hospitals, nursing homes, institutions, hotels, dormitories, apartments, health clubs and similar commercial installations
- Control rod group includes a durable stainless steel pressure balancing piston which equalizes hot and cold supply pressures to keep shower temperature constant
- With the handle in the OFF position, hot and cold water entries into the valve are shut down completely, eliminating the possibility of cross connection
- The upper valve (cold) and lower valve (hot) seat is removable
- Maximum operating pressure: 125 PSI (860 kPa)
- If hot or cold supply should fail, the automatic shutdown feature reduces flow to prevent a continued spray of all hot or all cold water

4500 Aquatrol® Series Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>4500</td>
<td>1/2” inlets and outlet</td>
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<tr>
<td>4500-LR</td>
<td>Ligature Resistant Handle</td>
</tr>
<tr>
<td>4501</td>
<td>4500 valve, H-05 shower head, 2.5 GPM, arm and flange</td>
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<tr>
<td>4503</td>
<td>4500 valve, D diverter spout, H-05 shower head</td>
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<tr>
<td>4505</td>
<td>4500 valve, D-2L inline diverter valve, 501P(G) hand shower, 2.5 GPM, with 24” glide rail, inline double check valve backflow preventer, H-05 shower head</td>
</tr>
<tr>
<td>4507</td>
<td>4500 valve, D diverter spout, 501P(G) hand shower, 2.5 GPM, with 24” glide rail, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>4509</td>
<td>4500 valve, D diverter spout, D-2L inline diverter valve, H-05 shower head, 2.5 GPM, with 24” glide rail, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>4511</td>
<td>4500 valve, H-06 fixed spray institutional shower head, 2.5 GPM</td>
</tr>
</tbody>
</table>

Standard features include:

- 1/2” inlets, 1/2” top outlet, 1/2” bottom outlet
- Adjustable high temperature limit stop set for 110°F (43°C) with an incoming hot water supply temperature of 135°F (57°C)
- Combination angle checkstops on inlets
- Built-in shutoff, single handle operation
- Bronze, brass, and stainless steel construction
- Color-coded dial, OFF through HOT, directional indicators
- Cast lever handle and wall flange, chrome plated
- Factory tested

4500 Aquatrol® Series Features

- Color-Coded Dial Indicator
- Adjustable High Temperature Limit Stop Set for 110°F (43°C)
- Bronze Control Rod with Stainless Steel Pressure Balancing Piston
- Removable One Piece Upper and Lower Valve Seats
Leonard Pressure Actuated Water Mixing Valves

- For shower and bath applications in health care, educational, penal, industrial, recreational and other commercial/institutional applications.
- Control rod group includes a durable stainless steel pressure balancing piston, which equalizes hot and cold supply pressures to keep shower temperature constant.
- With the handle in the OFF position, hot and cold water entries into the valve are shut down completely, eliminating the possibility of cross connection.
- The upper valve (cold) and lower valve (hot) seat is removable.
- Inlet stops or checkstops optional on concealed models, checkstops standard on exposed model.
- Maximum operating pressure: 125 PSI (862 kPa).
- If hot or cold supply should fail, the automatic shutdown feature reduces flow to prevent a continued spray of all hot or all cold water.

PAM® II Series Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>PAM®II-ST-F</td>
<td>1/2” inlets and outlet</td>
</tr>
<tr>
<td>PAM®II-ST-F-LR</td>
<td>Ligature Resistant Handle</td>
</tr>
<tr>
<td>PAM®II-E</td>
<td>Exposed, 1/2” inlets and outlet, integral wall support, integral combination inlet, chromeplated finish</td>
</tr>
<tr>
<td>51-1D</td>
<td>PAM-II-ST-F valve, H-02 brass shower head, 2.5 GPM, arm and flange</td>
</tr>
<tr>
<td>51-2D</td>
<td>PAM-II-ST-F valve, D diverter spout, H-02 brass shower head, 2.5 GPM, arm and flange</td>
</tr>
<tr>
<td>51-3D</td>
<td>PAM-II-ST-F valve, D-2L inline diverter fitting, H-02 brass shower head, 2.5 GPM, arm and flange, 500P hand shower, 2.5 GPM, two wall hooks, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>51-4D</td>
<td>PAM-II-ST-F valve, D diverter spout, D-2L inline diverter fitting, H-02 brass shower head, 2.5 GPM, arm and flange, 500P hand shower, 2.5 GPM, two wall hooks, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>51-5D</td>
<td>PAM-II-ST-F valve, D-2L inline diverter fitting, TS tub spout, 500P hand shower, 2.5 GPM, two wall hooks, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>51-6D</td>
<td>PAM-II-ST-F valve, H-06 fixed spray institutional shower head, 2.5 GPM</td>
</tr>
</tbody>
</table>

Standard features include:

- Tub and/or shower installation
- 1/2” inlets, 1/2” top outlet, 1/2” bottom outlet
- Adjustable high temperature limit stop set for 110°F (43°C) with an incoming hot water supply temperature of 135°F (57°C)
- Built-in shutoff, single handle operation
- Bronze, brass, and stainless steel construction
- Color-coded dial, OFF through HOT, directional indicators
- Cast lever handle, cast heavy wall flange, chrome plated finish
- Factory assembled and tested as a complete unit
- Angle checkstops, copper tube connections
Leonard Pressure Actuated Water Mixing Valve With Integral Dial Thermometer

- For institution, commercial or residential applications
- Control rod group includes a durable stainless steel pressure balancing piston, which equalizes hot and cold supply pressures to keep shower temperature constant
- With the handle in the OFF position, hot and cold water entries into the valve are shut down completely, eliminating the possibility of cross connection
- The upper valve (cold) and lower valve (hot) seat is removable
- Maximum operating pressure: 125 PSI (862 kPa)
- Integral dial thermometer, bi-metal type, color-coded dual scale, white indicator on black background, shatterproof Lexan®, hermetically sealed
  - Blue: 70 to 90°F (21 to 32°C)
  - Green: 90 to 105°F (32 to 40°C)
  - Red: 105 to 120°F (40 to 49°C)
  - White indicator, black background
  - Type 304 stainless steel case, bezel and stem (hermetically sealed)
- If hot or cold supply should fail, the automatic shutdown feature reduces flow to prevent a continued spray of all hot or all cold water

6700-F Advantage® Series Selection Guide

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>6700</td>
<td>1/2&quot; inlets and outlet</td>
</tr>
<tr>
<td>6701</td>
<td>6700-F valve, H-02 brass shower head, 2.5 GPM, arm and flange</td>
</tr>
<tr>
<td>6702</td>
<td>6700-F valve, D-2L inline diverter fitting, H-03 large brass shower head, 2.5 GPM, arm and flange, 500P hand shower, 2.5 GPM, two wall hooks, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>6703</td>
<td>6700-F valve, D-2L inline diverter fitting, H-03 large brass shower head, 2.5 GPM, arm and flange, TS tub spout</td>
</tr>
<tr>
<td>6704</td>
<td>6700-F valve, D-2L inline diverter fitting, D-1 diverter spout with twin elbow, H-03 large brass shower head, 2.5 GPM, arm and flange, 500P hand shower, 2.5 GPM, two wall hooks, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>6705</td>
<td>6700-F valve, 500P hand shower, 2.5 GPM, two wall hooks, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>6706</td>
<td>6700-F valve, D-2L inline diverter fitting, TS tub spout, 500P hand shower, 2.5 GPM, two wall hooks, inline double check valve backflow preventer</td>
</tr>
</tbody>
</table>

Standard features include:
- Tub and/or shower installation
- 1/2" inlets, 1/2" top outlet
- Adjustable high temperature limit stop set for 110°F (43°C) with an incoming hot water supply temperature of 135°F (57°C)
- Built-in shutoff, single handle operation
- Bronze, brass, and stainless steel construction
- Color-coded dial, OFF through HOT, directional indicators, helps eliminate confusion to where the handle should be located for a particular temperature
- Cast lever handle, cast heavy wall flange, chrome plated
- Factory assembled and tested as a complete unit
- Angle checkstops, copper tube connections
Leonard Thermostatic Water Mixing Valves
- For shower and bath applications in health care, educational, penal, industrial, recreational and other commercial/institutional applications
- Highly responsive copper encapsulated thermostat
- Built-in shutoff, single handle operation
- Standard hot and cold supply checkstops
- Bronze, brass, and stainless steel construction
- Adjustable high temperature limit stop set for 110°F (43°C)
- Maximum supply and operating pressure: 125 PSI (860 kPa)
- Factory assembled and tested as a complete unit
- If hot or cold supply should fail, the automatic shutdown feature reduces flow to prevent a continued spray of all hot or all cold water

7600 Showermaster® Series
Selection Guide

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<thead>
<tr>
<th>7600</th>
<th>7600-E</th>
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<tbody>
<tr>
<td>76-1A</td>
<td>7600 valve, H-02 brass shower head, 2.5 GPM, arm and flange</td>
</tr>
<tr>
<td>76-2A</td>
<td>7600 valve, D diverter spout, H-02 brass shower head, 2.5 GPM, arm and flange</td>
</tr>
<tr>
<td>76-3A</td>
<td>7600 valve, D-2L inline diverter valve, H-02 brass shower head, 2.5 GPM, arm and flange, 501P(G) hand shower, 2.5 GPM, 24” glide rail, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>76-4A</td>
<td>7600 valve, D diverter spout, D-2L inline diverter valve, H-02 brass shower head, 2.5 GPM, arm and flange, 501P(G) hand shower, 2.5 GPM, 24” glide rail, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>76-5A</td>
<td>7600 valve, 501P(G) hand shower, 2.5 GPM, 24” glide rail, inline double check valve backflow preventer</td>
</tr>
<tr>
<td>76-6A</td>
<td>7600 valve, H-06 fixed spray institutional shower head, 2.5 GPM</td>
</tr>
</tbody>
</table>

Standard features include:
- Copper encapsulated thermostat assembly with brass shuttle, compensates for temperature fluctuations induced by water temperature and pressure changes
- Built-in shutoff for single handle operation
- Integral checkstops
- Cast wall flange and lever handle, polished chrome plated
- Color-coded dial
- 1/2” sweat inlets and outlet, threaded bottom outlet
- Integral checkstops on inlets
- Cast lever handle, cast wall flange, all chrome plated

7600 Showermaster® Series Features

Stainless Steel construction to meet the rigorous on/off cycle requirements
Highly responsive copper encapsulated thermostat, to protect against temperature and pressure changes
In “OFF” position, hot and cold water entries are shut off, eliminating the possibility of cross connection
SHOWER ACCESSORIES

Shower Heads
All shower heads are polished chrome plated and include a shower arm and flange.

- **H-01** Shower head, brass, ball joint, volume control, 2.5 GPM (9.5 l/min)
- **H-02** Shower head, brass, ball joint, adjustable spray, 2.5 GPM (9.5 l/min)
- **H-03** Large shower head, brass, ball joint, adjustable spray, 2.5 GPM (9.5 l/min)
- **H-05** Shower head, ABS, ball joint, adjustable spray, 2.5 GPM (9.5 l/min)
- **C10-25** Shower head, brass, ball joint, 2.0 GPM (7.6 l/min)
- **H-14** Low Flow shower head, ABS, ball joint, 1.5 GPM (5.7 l/min)

**Options**
- **Suffix V** Separate volume control, lever adjustment
- **Suffix CFL** Cast flange with set screw

Diverter Spouts, Tub Spouts
All diverter and tub spouts are chrome plated.

- **D** Diverter spout
- **TS** Tub spout
- **D-1** Diverter spout, twin elbow

**Options**
- **Suffix BR** Brass construction (D, D-1)

Remodel Plates

- **2000** Remodel plate, stainless steel, #4 finish for 4500 or PAM-II-ST shower valves
- **7929** Remodel plate, stainless steel, #4 finish for 7600 shower valve

Institutional Shower Heads
All institutional shower heads are polished chrome plated and mounted on an institutional shower head bracket.

- **H-06** Institutional shower head, brass, vandal-resistant screws, 2.5 GPM (9.5 l/min)
- **H-06-1.5** Institutional shower head, brass, vandal-resistant screws, 1.5 GPM (5.7 l/min)
- **H-06-ADJ** Institutional shower head, brass, adjustable spray with lockable setting, vandal-resistant screws, 2.5 GPM (9.5 l/min)
- **H-07** Institutional shower head, large size, brass, ball joint, adjustable spray, vandal-resistant screws, 2.5 GPM (9.5 l/min)
- **H-08** Institutional shower head, brass, ball joint, adjustable spray, vandal-resistant screws, 2.5 GPM (9.5 l/min)
- **H-09** Institutional shower head, ABS, ball joint, adjustable spray, vandal-resistant screws, 2.5 GPM (9.5 l/min)
- **H-10** Institutional shower head, brass, ball joint, volume control, vandal-resistant screws, 2.5 GPM (9.5 l/min)
- **H-15** Low Flow institutional shower head, brass ball joint, vandal-resistant screws, 1.5 GPM (5.7 l/min)

Diverter Valves

- **D-2L** Inline diverter valve, brass lever handle, 1/2” copper tube connections
- **L-4923** Shower head diverter, chrome plated finish
Hand Showers

All hand showers include spray, 69" (1753 mm) chrome hose, double check valve, supply elbow and flange.

500P With two wall hooks, 2.5 GPM
505P With two wall hooks, 1.5 GPM

501P With 24" (610mm) slide bar
515P With 24" (610mm) slide bar, 1.5 GPM

501P(G) With 24" (610mm) glide rail
515P(G) With 24" (610mm) glide rail, 1.5 GPM
501P(G)-30 With 30" (762mm) glide rail
515P(G)-30 With 30" (762mm) glide rail, 1.5 GPM

Options
Suffix VP Vandal-resistant screws
Suffix QD Quick connector fitting

On/Off Valves, Metering Valve

770 Compression-type volume, on/off valve, four-arm handle, exposed parts chrome plated, 1/2” IPS connections

770-BL Compression-type volume, on/off valve, blade handle

LV477B-3 Metering valve, concealed, push button activation, fixed cycle, 30 seconds, inlet stop, exposed parts chrome plated, 1/2” IPS connections

Vacuum Breakers

LVB Elevated vacuum breaker, chrome plated, 1/2” with hose connection on outlet

EVB Elevated vacuum breaker unit, chrome plated, 1/2” IPS

INVB Inline vacuum breaker ASSE 1014 Compliant

Dial Thermometers

37CS0FL Flush mounted, range: 25 - 125°F, 0 - 50°C, with wall flange, mounting bracket and screws