



# Armstrong® Thermostatic Steam & Water Mixing Valve

## A55

Thermostatic Mixing Valve of chrome-plated brass construction with stainless steel alloy internal operating mechanism. The A55 uses bimetal thermostatic technology to automatically proportion inlet steam and water supplies to achieve and maintain a desired outlet temperature. The A55 is equipped with an integral, site-adjustable, maximum temperature ( $\Delta T$ ) fix point. With flow rates up to 13 gpm\* (49 lpm), the A55 is an economical alternative to hot water storage or central heat exchange systems, using existing plant steam to heat water instantly at the point of use. The A55 has 1" (25 mm) NPT inlets and a 1-1/4" (32 mm) NPT outlet, and is supplied with 1" (25 mm) ball valves for inlet flow control. Check valves are recommended.

\*Based upon 60 psi (4 bar) equal inlet steam and water supplies with a 100°F (55°C) temperature rise.

**Important:** For optimum performance the A55 should be allowed to operate at maximum flow with nominally equal inlet supply pressures and should **not** be installed with either outlet flow control or an outlet restriction (spray nozzle, washdown hose, etc).

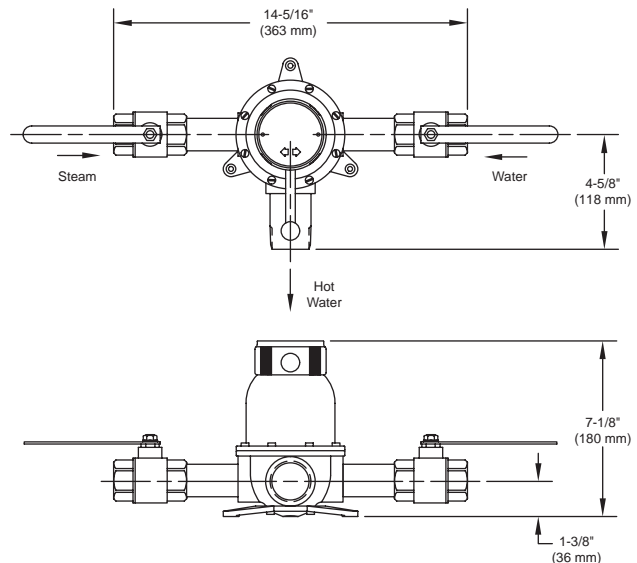
**Warning:** The A55 is designed for industrial process applications only and *may pass live steam* under certain circumstances.

### Technical Specifications

- 1" (25 mm) NPT inlets. 1-1/4" (32 mm) NPT outlet
- DZR brass/stainless steel alloy construction
- Operating pressures
  - Maximum: 100 psi (7 bar)
  - Minimum: 20 psi\*\* (1.4 bar)
- Inlet check valves recommended
- Shipping weight 15 lbs (6.8 kg)

\*\*Low steam pressures reduce flow rates. Always refer to flow table shown below.

For a fully detailed certified drawing, refer to CDLW #1060.



### A55 Flow Rates (gpm)

Temperature Rise °F	Maintained Equal Inlet Pressure, psi				
	20	40	60	80	100
55	12	18	24	29	34
75	9	13	18	21	25
100	7	10	13	16	19
135	5	7	10	12	14

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.