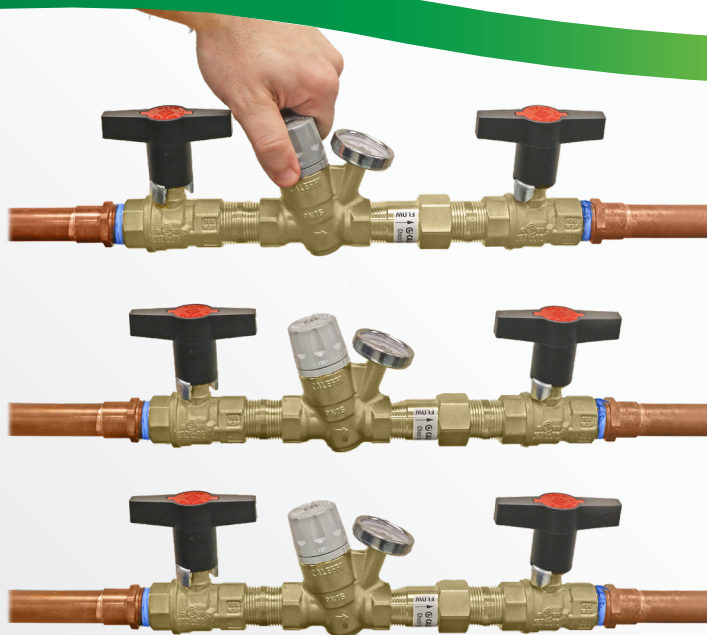




1164 ThermoSetter™

ADJUSTABLE THERMAL BALANCING VALVE

1164 SERIES



PRODUCT FEATURES

■ Automatically maintains recirculation temperature at fixtures:

Modulates flow rate within each circuit so the hot water temperature at fixtures remains constant.

■ Industry-first temperature adjustability:

Field adjustable temperature from 105°F to 150°F. Adjustment knob is lockable for tamper-proofing.

■ Minimized electrical costs:

When matched with variable speed circulator in constant pressure mode, ThermoSetter valves and circulator harmoniously modulate to deliver only the flow within each circuit for optimal energy consumption.

■ Set it and forget it:

Unlike traditional balancing valves, ThermoSetter requires no differential pressure instruments or reference charts. Simply set knob to desired circuit temperature. That's it!

■ Temperature gauge in the dry well:

For local temperature indication. Dry well alternatively can be used for BAS temperature monitoring.

■ Easy to service:

Complete internal cartridge is removable for cleaning or replacement.

■ Isolation valves:

Order with factory assembled inlet and outlet isolation ball valves saving extra procurement and onsite labor.

Ease of commissioning and fixture temperature consistency

ThermoSetter™ is the industry's first field adjustable thermal balancing valve. Place valves in each return branch and they self-balance, negating need for instrumentation. Through periods of no demand, delivery temperature fluctuation and water heater draw down, they modulate harmoniously to maintain consistent hot water temperature at the fixtures. Factory assemblies with inlet and outlet isolation valves are available.

PRODUCT RANGE - ThermoSetter™ 1164 series



CODE	OUTLET TEMP GAUGE	CHECK VALVE	NPT female
116441A	✓	--	1/2"
116441AC	✓	✓	1/2"
116451A	✓	--	3/4"
116451AC	✓	✓	3/4"

CODE	OUTLET TEMP GAUGE	CHECK VALVE	NPT female
116440A	--	--	1/2"
116440AC	--	✓	1/2"
116450A	--	--	3/4"
116450AC	--	✓	3/4"



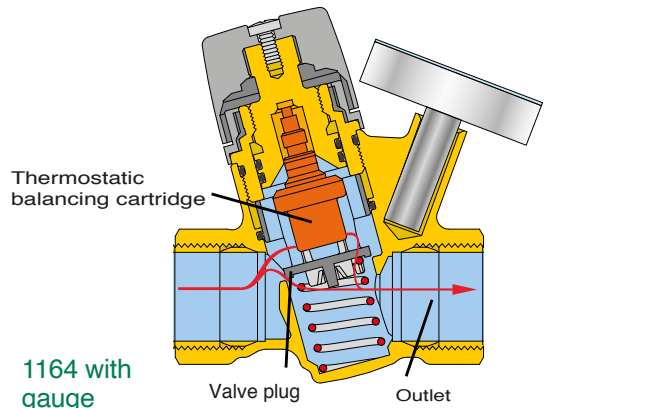
NSF/ANSI/CAN 61

Complies with NSF/ANSI 372-2011 low lead laws for use in accordance with the U.S. and Canadian plumbing codes, and with NSF/ANSI/CAN 61 (180F).

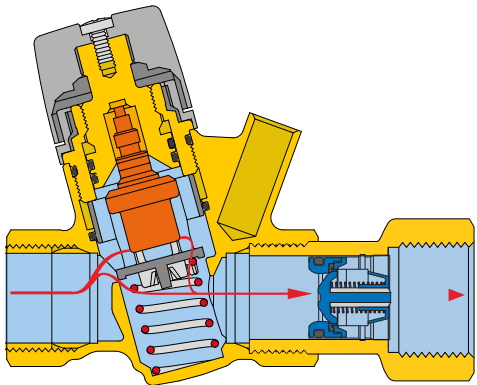
To order with isolation ball valves, add suffix "...001" to any of the 1164 series code numbers listed here. See NA108 series ball valves in Caleffi catalog for isolation valve details.

SECTION VIEW

The balancing cartridge modulates the valve to control temperature to the knob set point. At the set point, the valve is at minimum position. This allows hot water supplied by the circulator to be distributed to the other branches resulting in effective automatic thermal balancing. The automatic response allows each hot water branch to quickly deliver hot water to each fixture.



1164 with gauge

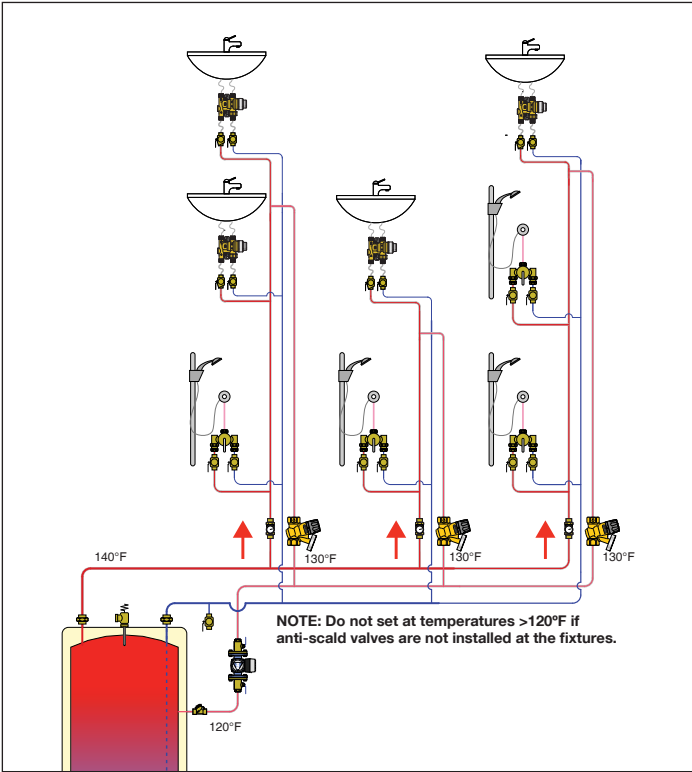


1164 with check valve

PERFORMANCE

TEMP ADJUSTMENT RANGE	105 — 150°F (40 — 65°C)
CV MAX	2.1
CV DESIGN	0.69
CV MIN	0.35

APPLICATION DIAGRAM



Caleffi Partner:

WE RESERVE THE RIGHT TO CHANGE OUR PRODUCTS AND THEIR RELEVANT TECHNICAL DATA CONTAINED IN THIS PUBLICATION AT ANY TIME AND WITHOUT PRIOR NOTICE.

ONLINE

CATALOG



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