



RED-WHITE VALVE CORP.

Thermostatic Balancing Valves



CR 3/4
MADE IN ITALY

Leaders in Valve Technology



www.redwhitevalvecorp.com

ABTB 26.01

THERMOSTATIC BALANCING VALVE

- Designed for domestic hot water recirculation
- DZR Lead Free brass body - Sn/Ni galvanically plated
- 250 CWP valve body pressure rating
- Stainless steel temperature activated internal flow cartridge
- Double union body for easy installation and maintenance
- AB1953, NSF/ANSI/CAN 61 & 372 certified
- Available in 1/2", 3/4" and 1"
- Connection options (union tailpieces)
 - FNPT: ANSI/ASME B1.20.1
 - Solder: ANSI B16.22
 - EzPress: ASTM B88
 - PEX: ASTM F-1960



Design Temperature Listed On Valve Body

Working Condition: Water 32°F - 200°F

Cartridge fully opens at 8° below the set temperature

Meets BAA requirements

Wide range of temperature settings



9960ABT-FF FNPT x FNPT



9960ABT-SS Solder x Solder



9960ABT-PP EzPress x EzPress

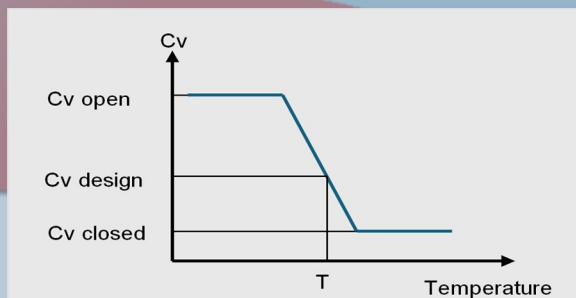


9960ABT-EE PEX F-1960 x PEX F-1960

Female tailpiece x Female tailpiece			
Temp	1/2"	3/4"	1"
115°F	9960ABT-FF-115 1/2	9960ABT-FF-115 3/4	9960ABT-FF-115 1
120°F	9960ABT-FF-120 1/2	9960ABT-FF-120 3/4	9960ABT-FF-120 1
130°F	9960ABT-FF-130 1/2	9960ABT-FF-130 3/4	9960ABT-FF-130 1
140°F	9960ABT-FF-140 1/2	9960ABT-FF-140 3/4	9960ABT-FF-140 1
150°F	9960ABT-FF-150 1/2	9960ABT-FF-150 3/4	9960ABT-FF-150 1
Solder tailpiece x Solder tailpiece			
Temp	1/2"	3/4"	1"
115°F	9960ABT-SS-115 1/2	9960ABT-SS-115 3/4	9960ABT-SS-115 1
120°F	9960ABT-SS-120 1/2	9960ABT-SS-120 3/4	9960ABT-SS-120 1
130°F	9960ABT-SS-130 1/2	9960ABT-SS-130 3/4	9960ABT-SS-130 1
140°F	9960ABT-SS-140 1/2	9960ABT-SS-140 3/4	9960ABT-SS-140 1
150°F	9960ABT-SS-150 1/2	9960ABT-SS-150 3/4	9960ABT-SS-150 1
EzPress tailpiece x EzPress tailpiece			
Temp	1/2"	3/4"	1"
115°F	9960ABT-PP-115 1/2	9960ABT-PP-115 3/4	9960ABT-PP-115 1
120°F	9960ABT-PP-120 1/2	9960ABT-PP-120 3/4	9960ABT-PP-120 1
130°F	9960ABT-PP-130 1/2	9960ABT-PP-130 3/4	9960ABT-PP-130 1
140°F	9960ABT-PP-140 1/2	9960ABT-PP-140 3/4	9960ABT-PP-140 1
150°F	9960ABT-PP-150 1/2	9960ABT-PP-150 3/4	9960ABT-PP-150 1
PEX F-1960 tailpiece x PEX F-1960 tailpiece			
Temp	1/2"	3/4"	1"
115°F	9960ABT-EE-115 1/2	9960ABT-EE-115 3/4	9960ABT-EE-115 1
120°F	9960ABT-EE-120 1/2	9960ABT-EE-120 3/4	9960ABT-EE-120 1
130°F	9960ABT-EE-130 1/2	9960ABT-EE-130 3/4	9960ABT-EE-130 1
140°F	9960ABT-EE-140 1/2	9960ABT-EE-140 3/4	9960ABT-EE-140 1
150°F	9960ABT-EE-150 1/2	9960ABT-EE-150 3/4	9960ABT-EE-150 1

DN	C _v open [GPM/psi ^{0.5}]	C _v design [GPM/psi ^{0.5}]	C _v closed ¹ [GPM/psi ^{0.5}]
1/2"	1.50	0.58	0.13
3/4"	2.00	0.81	0.18
1"	3.80	1.50	0.28

¹Valve never fully closes. There will always be a bypass flow to avoid pump deadheading and to guarantee correct thermal actuator sensitivity.



Valves are available in different ranges of setting temperature. The Cv value of the valve changes with the temperature variation according to the graph and table:

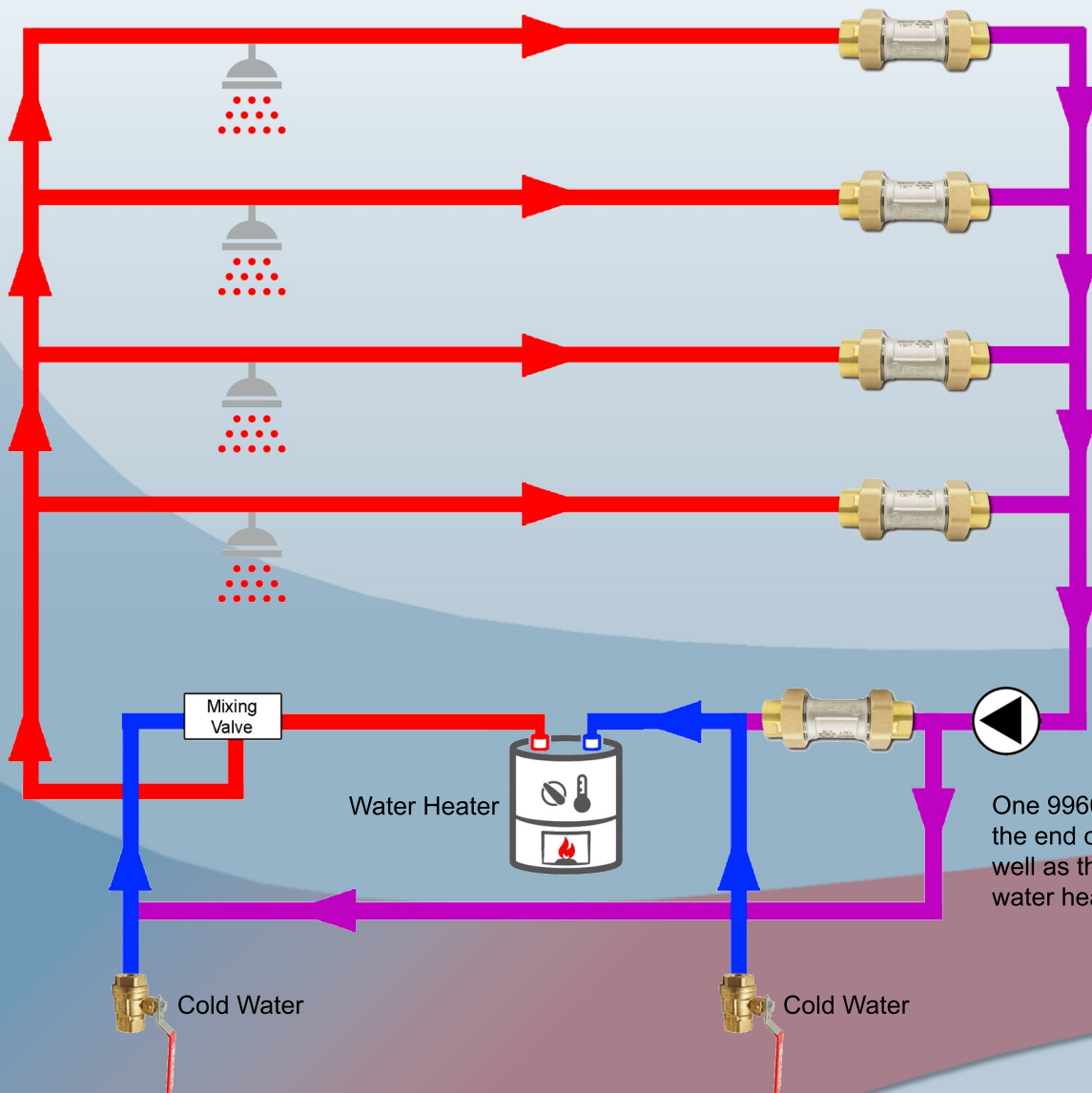


9960ABT THERMOSTATIC BALANCING VALVE

The 9960ABT thermostatic balancing valves offer a simple and effective solution to proper domestic hot water distribution and eliminates the need for static manual balancing.

The internal actuator cartridge automatically opens and closes, modulating with changing water temperatures. When the water temperature decreases, the valve modulates and opens to allow more flow through the (DHWR) system. As the water temperature increases, the valve closes to decrease but maintain water flow. The 9960ABT never fully closes. There will always be a bypass flow to avoid pump dead-heading and to guarantee correct thermal actuator sensitivity.

Choose your connection type, set-point temperature and size...



**10 Year
Warranty**

One 9960ABT should be placed at the end of each branch/riser as well as the return line back to the water heater.

Ordering Information

9960AB

- XXX -

Lead Free Body With Cartridge

T	Tailpiece
IBV	Ball Valve
TC	Tailpiece w/Check Valve
IBVC	Ball Valve w/Check Valve

Temp
115° F
120° F
130° F
140° F
150° F

Size In	
050	1/2"
075	3/4"
100	1"
125	1-1/4"
150	1-1/2"
200	2"

Connection In	
F	FNPT
S	SOLDER
P	EzPRESS
E	PEX F-1960

Size Out	
050	1/2"
075	3/4"
100	1"
125	1-1/4"
150	1-1/2"
200	2"

Connection Out	
F	FNPT
S	SOLDER
P	EzPRESS
E	PEX F-1960

Example 9960ABIBV 120 050P050P

Lead Free Body With Cartridge, Ball Valve, 120°, 1/2" EzPress x 1/2" EzPress

9960AB with SHUT-OFF VALVES



9960ABIBV-FF



9960ABIBV-SS



9960ABIBV-PP

9960AB with CHECK VALVE & SHUT-OFF VALVES



9960ABIBVC-FF



9960ABIBVC-SS



9960ABIBVC-PP

9960AB with CHECK VALVE



9960ABTC-FF



9960ABTC-SS



9960ABTC-PP



9960ABTC-EE



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