

9960ABIBVC

DZR Lead Free Thermostatic Balancing Valve With Check Valve and Isolation Ball Valves

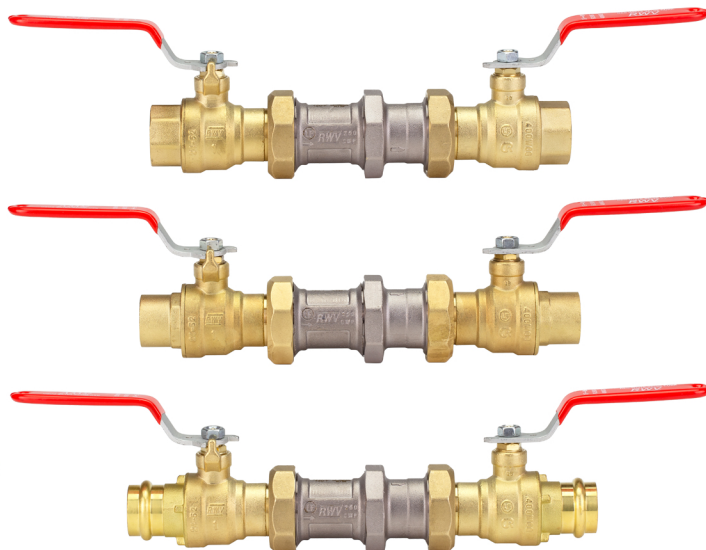
Feature

Designed for domestic hot water recirculation
DZR lead free brass body / Sn/Ni galvanically plated for the TBV
and the union body with check valve
Temperature activated internal flow cartridge
Cartridge shutter will reach the open position 8 °F below the fully
closed temperature
Wide range of temperature setting
Double union body for easy installation and maintenance
Union body with PPO/GF spring loaded check valve
Isolation ball valve with union nut for ON/OFF operation
Blow-out proof stem, adjustable packing
FNPT, Solder and EzPress version available for ball valve
- FNPT: ANSI/ASME B1.20.1
- Solder: ANSI B16.22
- EzPress: ASTM B88
AB1953, NSF/ANSI/CAN 61 & 372 certified

Meet BAA requirement

250 CWP valve body rating

Working conditions
Water: 32 °F – 200 °F

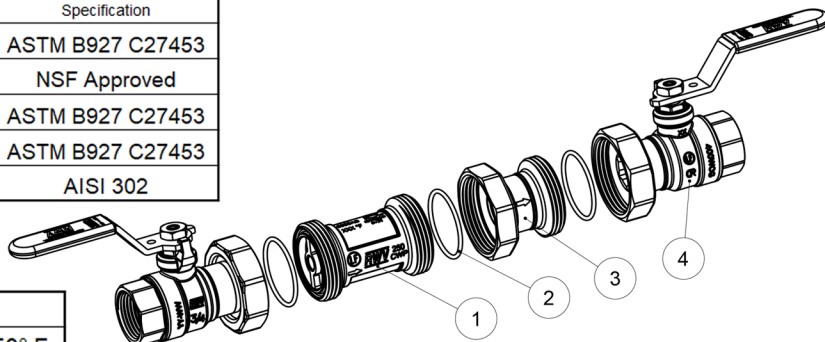


Material

	Part	Material	Specification
1	Thermostatic Valve	DZR Lead Free Brass Sn/Ni Plated	ASTM B927 C27453
2	O-ring	EPDM Perox	NSF Approved
3	Union With Check Valve	DZR Lead Free Brass Sn/Ni Plated	ASTM B927 C27453
4	99IBV - Isolation Ball Valve	DZR Lead Free Brass	ASTM B927 C27453
	Cartridge	Stainless Steel	AISI 302

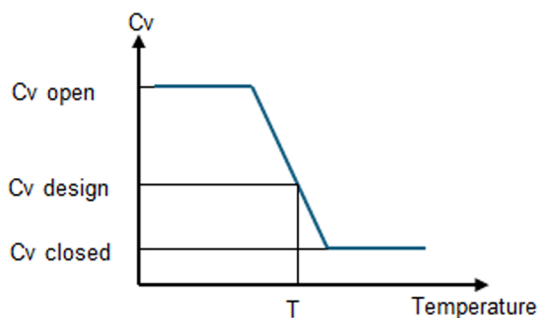
Temperature Setting

Factory Preset Temperature						
115° F	120° F	125° F	130° F	135° F	140° F	150° F
* Cartridge fully opens at 8° below set temperature						



Valve Regulation Data

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



SIZE	Cv open	Cv design	Cv closed ¹
	[GPM/psi ^{0.5}]	[GPM/psi ^{0.5}]	[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.

T Setting: 115°, 120°, 125°, 130°, 135° 140°, 150° F (laser marked on the body)



WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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The drinking Water Act has defined lead free as having the average wetted surface ratio of the fixture to contain less than .25% of lead per volume.

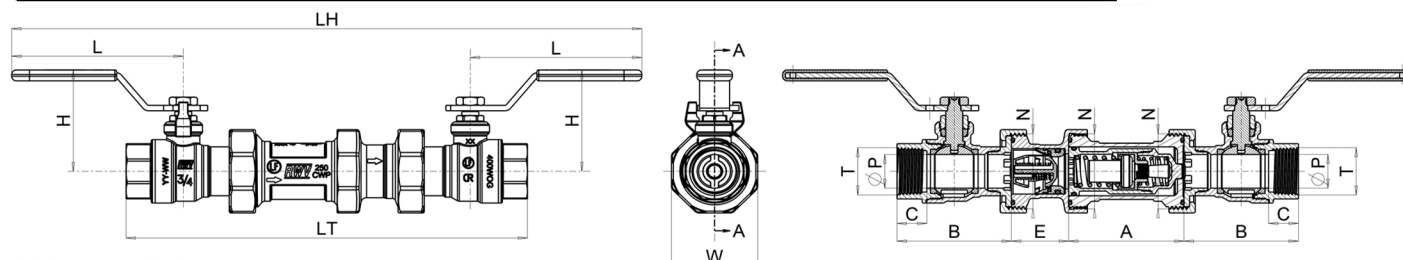
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DZR Lead Free Thermostatic Balancing Valve
With Integral Check and Isolation Ball Valves

Dimension, Weight

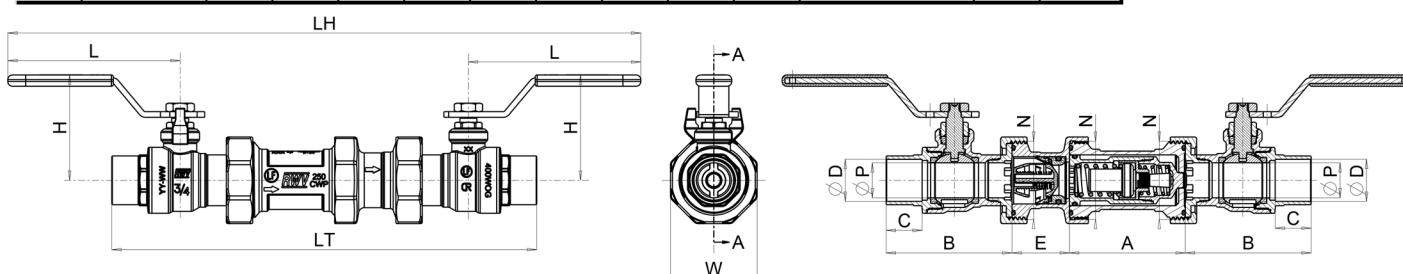
9960ABIBVC-FF

	T	C (in)	LT (in)	A (in)	B (in)	E (in)	LH (in)	L (in)	H (in)	W (in)	N	ØP	Weight (lb)
1/2"	1/2-14 NPT	0.61	7.58	2.24	2.17	1.00	12.62	3.60	2.07	1.46	1-11.5 NPSM	0.50	1.83
3/4"	3/4-14 NPT	0.63	8.43	2.42	2.40	1.20	13.23	3.60	2.20	1.81	1 1/4-11.5 NPSM	0.73	2.63
1"	1-11.5 NPT	0.75	10.09	2.48	3.06	1.50	17.09	4.98	2.57	2.05	1 1/2-11.5NPSM	0.98	4.10



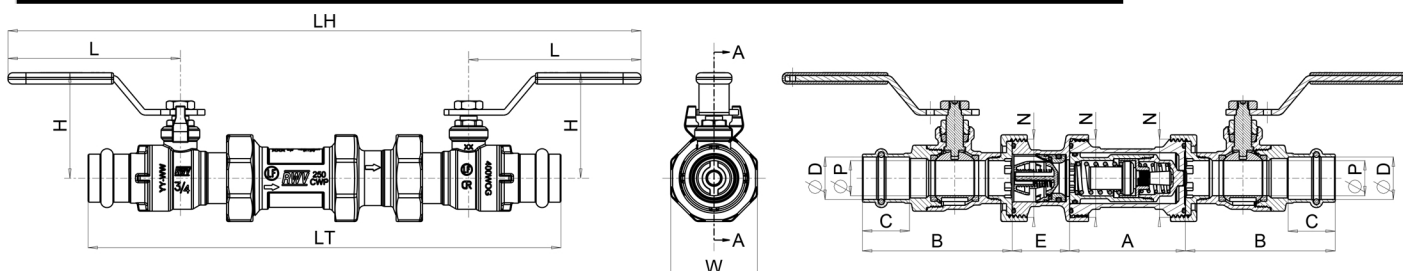
9960ABIBVC-SS

	ØD	C (in)	LT (in)	A (in)	B (in)	E (in)	LH (in)	L (in)	H (in)	W (in)	N	ØP	Weight (lb)
1/2"	0.627-0.631	0.51	7.62	2.24	2.19	1.00	12.62	3.60	2.07	1.46	1-11.5 NPSM	0.50	1.80
3/4"	0.877-0.881	0.75	8.88	2.42	2.63	1.20	13.23	3.60	2.20	1.81	1 1/4-11.5 NPSM	0.73	2.60
1"	1.128-1.131	0.91	10.62	2.48	3.32	1.50	17.09	4.98	2.57	2.05	1 1/2-11.5NPSM	0.98	4.03



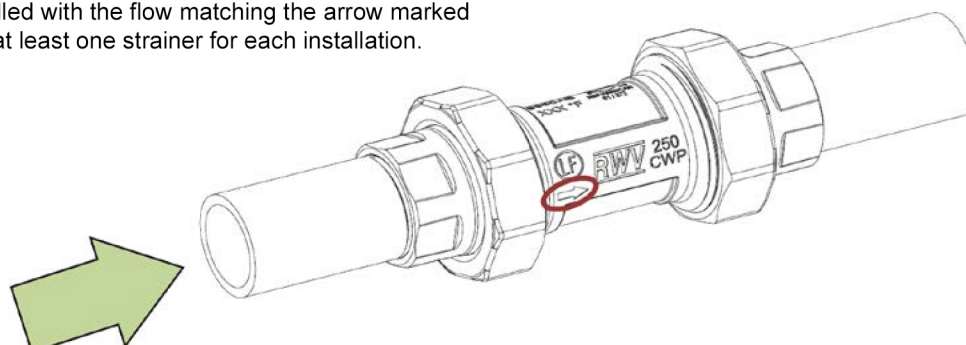
9960ABIBVC-PP

Size (in)	ØD	C (in)	LT (in)	A (in)	B (in)	E (in)	LH (in)	L (in)	H (in)	W (in)	N	ØP	Weight (lb)
1/2"	0.64	0.87	8.64	2.24	2.70	1.00	12.62	3.60	2.07	1.46	1-11.5 NPSM	0.50	1.86
3/4"	0.89	0.98	9.88	2.42	3.13	1.20	13.23	3.60	2.20	1.81	1 1/4-11.5 NPSM	0.73	2.69
1"	1.14	1.06	11.31	2.48	3.67	1.50	17.09	4.98	2.57	2.05	1 1/2-11.5NPSM	0.98	4.08



Installation

The valve must be installed with the flow matching the arrow marked on the valve body. Use at least one strainer for each installation.



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