

Domestic Hot Water Balancing Valve

RecircSetter™ | Thermostatic Balancing, Variable Set Point, Dual Isolation, Integrated Filter Ball® Strainer, 150 CWP

TB-120MFG



FEATURES

- Dezincification Resistant Brass Alloy
- Variable Temperature Set Point with Protective Cap
- Modulates Flow to Maintain Constant Temperature in Recirculation Loop
- No Balancing Equipment Required
- Drywell with Temperature Gauge Included
- 1/2" NPT Temperature Port (Factory Plugged)
- Equipped with Dual Isolation Ball Valve and Filter Ball® Strainer
- Union Connection on Ball Valve
- Integrated Check Valve in Downstream Isolation Valve
- 100% Made in Italy
- NSF 61 & NSF 372 Certified
- Wetted Surfaces Contain Less Than .25% Lead Content
- Accessories Available

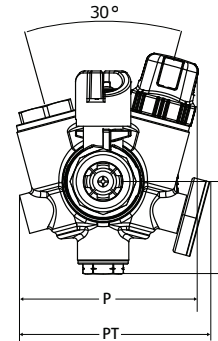
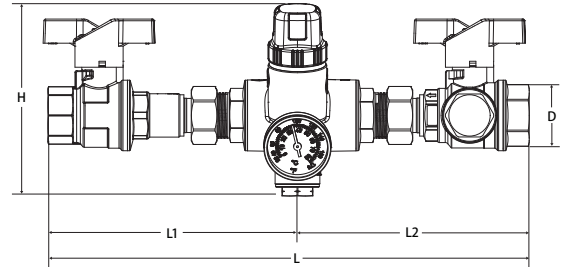
CERTIFICATIONS/APPROVALS

NSF/ANSI/CAN 61
NSF/ANSI/CAN 372
Conforms to ANSI B1.20.1

PRESSURE/TEMPERATURE RATING

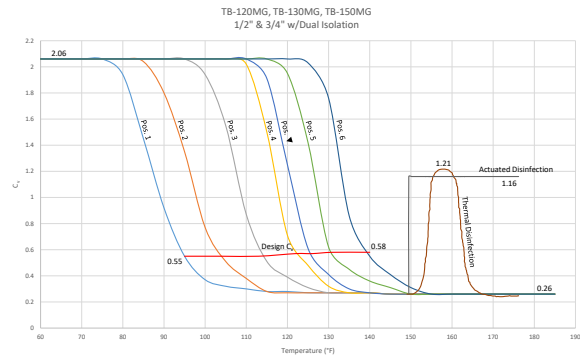
Max Working Pressure: 232 psi
Max Differential Pressure: 14.5 psi
Max Working Temperature: 194°F
Temperature Setting Range: 95°F - 140°F

C_{vmin} : 0.18
 C_{vmax} : 1.90
 $C_{vdesign}$: 0.51 - 0.56



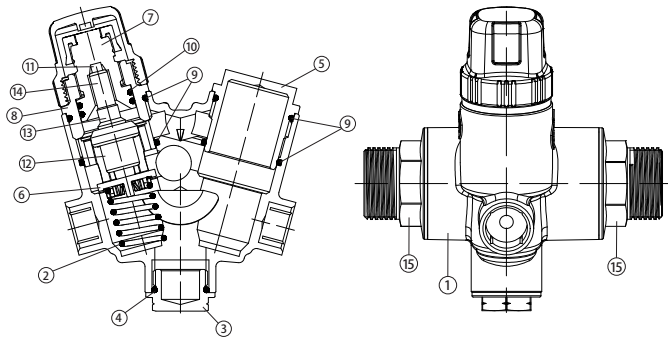
DIMENSIONS

Part No	D	L	L1	L2	H	I	P	PT
180-103MFG-B-I	1/2"	10.98	5.71	5.31	4.41	1.81	3.58	3.78
180-104MFG-B-I	3/4"	10.98	5.71	5.31	4.41	1.81	3.58	3.78



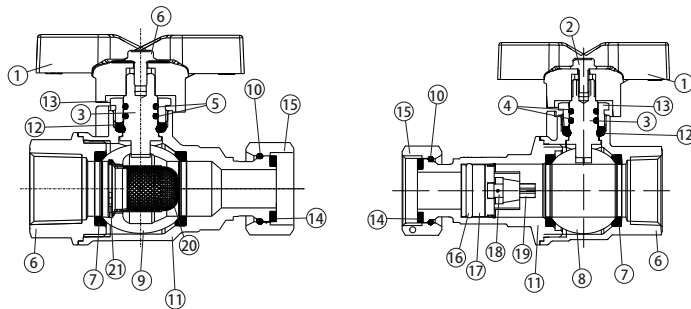
HAND WHEEL SETPOINT TEMPERATURE (°F)									
95°	100°	105°	110°	115°	120°	125°	130°	135°	140°
1	1.6	2.1	2.7	3.2	3.8	▼ 4.4	4.9	5.5	6

Material Specifications



MATERIALS

No.	Part	Material
1	Valve Body	LF DZR Brass C27453
2	Spring	Stainless Steel AISI 302
3	1/2" Plug	LF DZR Brass C27453
4	O-Ring	EPDM
5	Auxiliary Cap	LF DZR Brass C27453
6	Piston	PSU
7	Stem	LF DZR Brass C27453
8	Stem Adapter	LF DZR Brass C27453
9	O-Ring	EPDM
10	O-Ring	EPDM
11	Cartridge Piston	Steel
12	Cartridge Cup	Brass CW501L
13	Cartridge Guide	Brass CW724R
14	Cartridge Sleeve	EPDM
15	End Connection FNPT	LF DZR Brass C27453



MATERIALS FOR TB-120MFG ISOLATION & FILTER BALL® VALVE

No.	Part	Material
1	T-Handle	Aluminum
2	Screw	Steel-Geomet Plated
3	Stem	LF Brass C28500
4	Isolation O-Ring (2)	EPDM
5	Filter Ball® O-Ring (2)	FKM
6	End Connection	LF DZR Brass C27453
7	Seat (2)	PTFE G300
8	Isolation Ball	T.E.A. Coated Brass C28500
9	Filter Ball® Ball	White Bronze Plated Brass C27453
10	O-Ring	EPDM
11	Body	LF DZR Brass C27453
12	Packing	PTFE G300
13	Packing Gland	LF Brass C28500
14	Union Gasket	EPDM
15	Union Nut	LF DZR Brass C27453
16	Check O-Ring	EPDM
17	Check Body	GF Noryl
18	Spring	Stainless Steel AISI 301
19	Check Rod Plunger	GF Noryl
20	Filter Basket	304 Stainless Steel
21	C-Clip Retainer	Phosphorous Bronze (CuSn6)