TBZ Series with "Z-Ball" True Union Ball Valves

1/2" TO 6" PVC AND CPVC

KEY FEATURES

- Available in PVC and CPVC
- Full Port Design
- Reversible PTFE Seats
- Double O-Ring Stem Seals
- For Sodium Hypochlorite Applications
- Adjustable Seat Retainer

OPTIONS

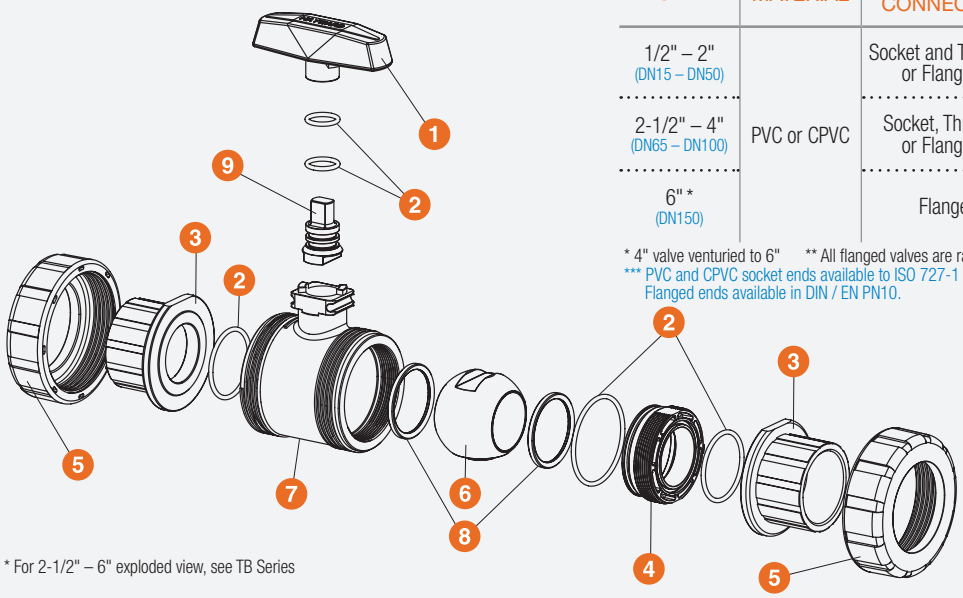
- Lockouts Available
- Stem Extensions
- Spring Return Handle
- Pneumatic and Electric Actuators
- 2" Square Operating Nut

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM O-Ring Seals

TECHNICAL INFORMATION

EXPLODED VIEW*



* For 2-1/2" – 6" exploded view, see TB Series

SELECTION CHART

SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING
1/2" – 2" (DN15 – DN50)	PVC or CPVC	Socket and Threaded or Flanged**	FPM	250 PSI @ 70°F 16 Bar @ 21°C Non-Shock
2-1/2" – 4" (DN65 – DN100)		Socket, Threaded or Flanged**		235 PSI @ 70°F 16 Bar @ 21°C Non-Shock
6" * (DN150)		Flanged		150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

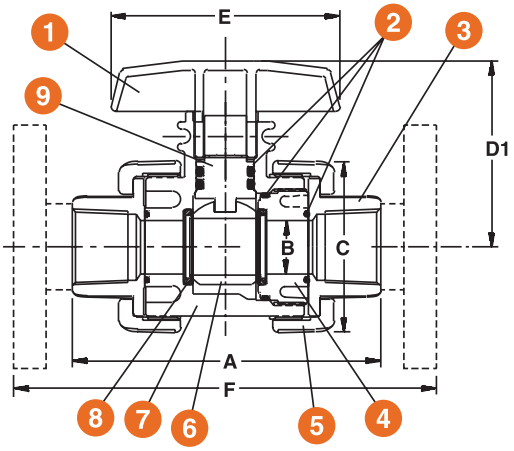
* 4" valve venturied to 6" ** All flanged valves are rated to 150 PSI @ 70°F Non-Shock (10 Bar @ 21°C)
*** PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21. Flanged ends available in DIN / EN PN10.

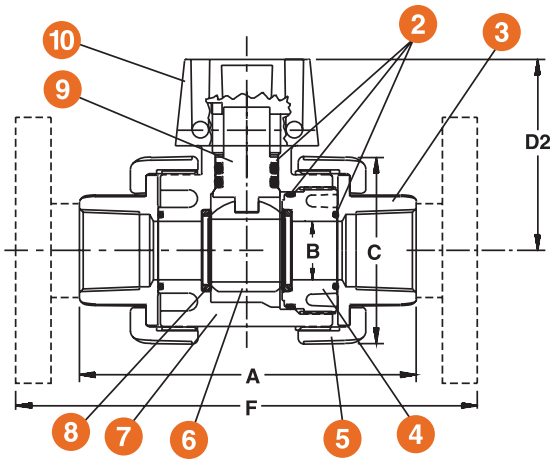
TECHNICAL INFORMATION, *CONTINUED*

PARTS LIST*

1. Handle
2. O-Ring Seals
3. End Connector
4. Seal Retainer
5. Union Nut
6. Ball
7. Body
8. PTFE Seat
9. Stem
10. Actuator Mounting Pad

* For 2-1/2" – 6" Sizes, See TB Series
** Mounting bracket sold separately





DIMENSIONS

SIZE in / DN	A in / mm	B in / mm	C in / mm	D1 in / mm	D2 in / mm	E in / mm	F in / mm	WEIGHT lbs / kg SOC / THD	WEIGHT lbs / kg FLANGED
1/2 / 15*	4.77 / 121	.50 / 13	2.25 / 57	2.81 / 71	2.63 / 67	3.50 / 89	6.75 / 171	.75 / .34	1.00 / .45
3/4 / 20*	4.85 / 123	.75 / 19	2.63 / 67	3.02 / 76	2.81 / 71	3.50 / 89	7.13 / 181	.75 / .34	1.00 / .45
1 / 25*	5.44 / 138	.93 / 24	3.00 / 76	3.26 / 83	3.05 / 77	5.00 / 127	8.09 / 205	1.15 / .52	2.15 / .98
1-1/4 / 32*	6.30 / 160	1.50 / 38	4.00 / 102	3.92 / 100	3.48 / 88	5.00 / 127	9.19 / 233	2.15 / .98	3.50 / 1.6
1-1/2 / 40*	6.85 / 174	1.50 / 38	4.00 / 102	3.92 / 100	3.48 / 88	5.00 / 127	9.88 / 250	2.15 / .98	3.75 / 1.7
2 / 50*	8.00 / 203	1.94 / 50	4.75 / 121	4.43 / 113	4.00 / 102	5.00 / 127	11.4 / 290	3.80 / 1.7	6.30 / 2.9
2-1/2 / 65	10.68 / 271	2.75 / 70	6.66 / 169	6.46 / 164	6.17 / 157	10.50 / 267	14.65 / 372	11.30 / 5.12	15.30 / 6.94
3 / 80*	10.56 / 268	2.75 / 70	6.66 / 169	6.46 / 164	6.17 / 157	10.50 / 267	14.60 / 371	11.30 / 5.12	15.30 / 6.94
4 / 100*	12.30 / 312	3.81 / 97	8.56 / 217	7.62 / 194	6.64 / 169	10.50 / 267	17.26 / 438	18.50 / 8.39	25.70 / 11.65
6 / 150*	N/A	3.81 / 97	8.56 / 217	7.62 / 194	6.64 / 169	10.50 / 267	19.26 / 489	N/A	30.75 / 13.95

Dimensions are subject to change without notice – consult factory for installation information
* Metric End Connections Available In: BSP – Straight Thread, BSP TR – Tapered Thread and Metric Socket

Cv VALUES

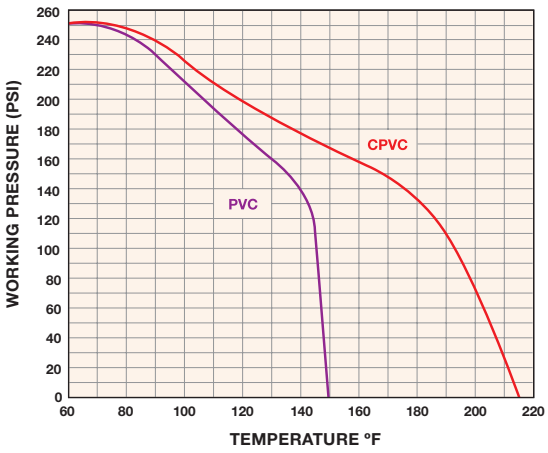
SIZE in / DN	Cv VALUES	SIZE in / DN	Cv VALUES
1/2 / 15	8.0	2 / 50	150.0
3/4 / 20	16.0	2-1/2 / 65	340.0
1 / 25	29.0	3 / 80	490.0
1-1/4 / 32	75.0	4 / 100	600.0
1-1/2 / 40	90.0	6 / 150	550.0

PRESSURE LOSS CALCULATION FORMULA

$$\Delta P = \left[\frac{Q}{Cv}\right]^2$$

ΔP = Pressure Drop
Q = Flow in GPM
Cv = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE



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