

## True Union "Z-Ball" Valves for Sodium Hypochlorite Applications



**1/4" to 6" - PVC,  
Corzan® CPVC and  
PPL**

### Rugged, Heavy Wall Plastic Construction

Stands up to the most aggressive sodium hypochlorite applications. Hayward True Union "Z-ball" can take the day-to-day abuse of industrial service and continue to function.

### Never a Problem with Corrosion

Because of the valves' all plastic construction, they will never rust or corrode – and they can survive corrosive environments without the need for painting or expensive epoxy coating.

**Sodium hypochlorite is inherently an unstable compound. As it decomposes, the resulting crystalline salts and oxygen gas can cause operational and safety issues with conventional ball valves.**

**With the "Z-Ball" design, it effectively vents the gases while keeping the inner surfaces constantly wetted, ensuring problem free use. The "Z-Ball" valves are readily identifiable by the black handle and special label identifying the direction of the liquid flow.**

## True Union "Z-Ball" Valves for Sodium Hypochlorite Applications

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### Technical Information

**Parts List**  
**True Union "Z-Ball" Valve**

1. Handle
2. O-ring seals
3. End connector
4. Seal retainer
5. Union nut
6. Drilled "Z-Ball"
7. Body
8. Teflon® seat\*
9. Stem
10. Actuator

\* O-Ring Backed Seats on 3" & 4" Sizes

### Dimensions - Inches / Millimeters

Size	A	B	C	D1	D2	F	Weight (lb / kg)	
							Soc/Thd	Flanged
1/4	4.63 / 117	0.37 / 13	2.25 / 57	3.00 / 76	2.63 / 67	N/A	0.75 / 0.34	N/A
3/8	4.63 / 117	0.50 / 13	2.25 / 57	3.00 / 76	2.63 / 67	N/A	0.75 / 0.34	N/A
1/2 / 20*	4.63 / 117	0.50 / 13	2.25 / 57	3.00 / 76	2.63 / 67	6.75 / 171	0.75 / 0.34	1.00 / 0.45
3/4 / 25*	4.75 / 120	0.75 / 19	2.63 / 67	3.02 / 77	2.81 / 72	7.13 / 181	0.75 / 0.34	1.00 / 0.45
1 / 32*	5.25 / 133	1.00 / 25	3.00 / 76	3.32 / 84	3.05 / 77	8.00 / 203	1.15 / 0.52	2.15 / 0.98
1-1/4 / 40*	6.30 / 160	1.25 / 32	4.00 / 102	3.92 / 100	3.48 / 88	9.19 / 233	2.15 / 0.98	3.50 / 1.6
1-1/2 / 50*	6.75 / 171	1.50 / 38	4.00 / 102	3.92 / 100	3.48 / 88	9.88 / 249	2.15 / 0.98	3.75 / 1.7
2 / 63*	8.00 / 203	2.00 / 51	4.75 / 121	4.43 / 113	4.00 / 101	11.4 / 289	3.80 / 1.7	6.30 / 2.9
2-1/2	10.68 / 271	3.00 / 76	6.40 / 163	5.50 / 140	5.50 / 140	14.38 / 365	10.50 / 4.8	14.50 / 6.6
3 / 90*	10.56 / 268	3.00 / 76	6.40 / 163	5.50 / 140	5.50 / 140	14.44 / 367	10.50 / 4.8	14.50 / 6.6
4 / 110*	12.30 / 329	3.81 / 97	8.56 / 217	6.50 / 165	6.50 / 165	17.13 / 435	17.60 / 8.0	24.80 / 11.3
6	N/A	3.81 / 97	8.56 / 217	6.50 / 165	6.50 / 165	19.19 / 487	N/A	30.75 / 14.0

\* Metric End Connections Available in: BSP – Straight Thread, BSP TR – Tapered Thread and Metric Socket

### Selection Chart

Size	Material	End. Conn	Seals	Pressure Rating
1/4" - 3/8"	PVC	Socket or Threaded	FPM ONLY	250 PSI @70°F Non-Shock
1/2" - 4"	PVC, CPVC, or PPL	Socket, Threaded, or Flanged		
6"	PVC or CPVC	Flanged		

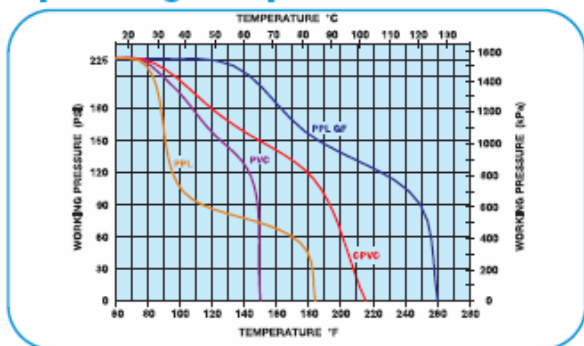
\* 4" valve venturied to 6"      4" and 6" valves 150 PSI @70°F Non-Shock

### Cv Factors

Size	Factor	Size	Factor
1/4"	1.0	1-1/2"	90
3/8"	2.8	2"	150
1/2"	8.0	2-1/2"	340
3/4"	16.0	3"	490
1"	29.0	4"	600
1-1/4"	75.0	6"	550

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### Operating Temperature/Pressure



Pressure Loss Calculation Formula

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

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