

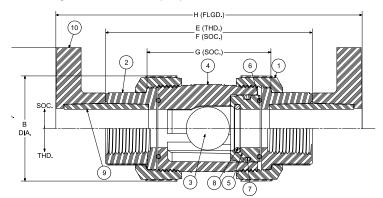
Polypropylene and Kynar® PVDF True Union Ball Check, and Vent Valves

Chemtrol Figure Numbers									
			Materials						
Type Valve	End Conn	Elastomeric Trim	Black Polypro	Chem-Pure Natural Polypro	Red PVDF	Natural PVDF			
Ball	Soc.	FKM	S61BC-V	S62BC-V	S65BC-V	S66BC-V			
Check Valve	Thd.	FKM	T61BC-V	NA	T65BC-V	T66BC-V			
	Flgd.	FKM	F61BC-V	NA	F65BC-V	F66BC-V			



Features

- Rated at 150 psi with non-shock service at 73°F
- Gravity ball check may be converted for air or gas venting by replacement of standard ball with natural polypropylene floater ball. Then install valve upside down for fluid to lift ball into seat.
- Free oscillation of ball in guide ribs facilitates full port flow with minimum turbulence and chatter.
- Equally effective in checking back flows from head pressure on the discharge or suction sides of pump.



Construction Materials								
Components ¹	Black PP	Nat. PP	Red PVDF	Nat. PVDF				
1. Union Nut		Black PP	Nat. PP	Red PVDF	Nat. PVDF			
2. End Connector		Black PP	Nat. PP	Red PVDF	Nat. PVDF			
3. Ball	3. Ball — Standard for Check or Foot Valve		Nat. GBPP ⁴		Nat. PVDF			
	 Floater Ball for Vent Valve² 		Natural PP Floater Ball					
4. Body ¹		Black PP	Nat. PP	Red PVDF	Nat. PVDF			
5. C.V. Seat-Carrier	Nat. PP Nat. PVDF							
6. O-ring ³ Body & Car	FKM							
7. O-ring ³ Seat-Carrie	FKM							
8. O-ring ³ Seat Seal	FKM							
9. Plain End Pipe Nipp	Black PP	Nat. PP	Red PVDF	Nat. PVDF				
10. Flange-Socket fo	Black PP	Nat. PP	Red PVDF	Nat. PVDF				

- 1 All components except valve bodies are available as replacement parts.
- 2 Gravity ball check valves are converted to vent valves by replacing the standard ball with a floater ball and inverting the valve at installation—with seat up.
- 3 Each replacement O-ring kit contains all the O-rings required to refurbish any True Union Check or Ball Valve (regardless of model or style), or a minimum of two
- pipe unions.
- 4 Polypropylene filled with glass micro-beads.

Dimensions ¹ -Weights-Fluid Flow Coefficients												
	Ball Check/Foot			Ball Check Valve			Seating Head Ft — H ₂ 0		Fluid Flow Coefficient			
Valve					Е	F	G	Н	Approx. ²			
Size	Α	В	С	D	Thd.	Soc.	Soc.	Flgd.	Wt. Lbs.	Vert.	Horiz.	C _v ³
1/2	3.50	1.98	2.63	0.50	3.94	4.13	2.36	6.27	0.42	6	7	5
3/4	3.88	2.44	2.63	0.75	4.65	5.02	3.00	7.38	0.72	6	7	10
1	4.26	2.83	3.63	1.00	5.08	5.40	3.12	7.99	1.05	4	5	19
1 1/2	5.00	4.08	5.50	1.50	6.38	6.99	4.21	10.18	2.62	4	5	56
2	6.00	5.23	5.50	2.00	7.36	8.02	4.99	11.45	4.76	4	5	101

- 1 Dimensions shown are for PVC and CPVC. Due to molding shrinkage the dimensions for PP and PVDF would be somewhat less, and the end-to-end length of threaded equals socket valves.
- 2 Weights shown for ball valve figures are PVC threaded models. For an approximation of PVDF, and PP check valve weights the PVC weight may be multiplied by factors of 1.275, or 0.656 respectively.
- 3 C_V values are based on the basic valve laying length (G).

Maximum Opera	ting P	ressure	(psi vs. 1
Operating	DD	PVDF	
Temperature (F)	PP	PVDF	
100	150	150	
110	140	150	
120	130	150	
130	118	150	
140	105	150	

Temperature								
	Operating							
	Temperature (F)	PP	PVDF					
	150	93	140					
	160	80	133					
	170	70	125					
	180	60	115					
	190	N.R.	106					

Operating Temperature (F)	PP	PVDF	
200	N.R.	97	
250	N.R.	50	
280	N.R.	25	

N.R. - Not recommended

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