

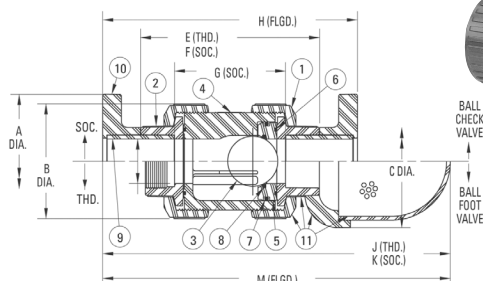
## Polypropylene and Kynar® PVDF True Union Ball Check, and Vent Valves

### Chemtrol Figure Numbers

| Type Valve       | End Conn | Elastomeric Trim | Materials     |                           |          |              |
|------------------|----------|------------------|---------------|---------------------------|----------|--------------|
|                  |          |                  | Black Polypro | Chem-Pure Natural Polypro | Red PVDF | Natural PVDF |
| Ball Check Valve | Soc.     | FKM              | S61BC-V       | S62BC-V                   | S65BC-V  | S66BC-V      |
|                  | 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 <sup>1</sup>                         | 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                                         | Nat. GBPP <sup>4</sup><br>Natural PP Floater Ball |         | Nat. PVDF |           |
| 4. Body <sup>1</sup>                            | Black PP                                          | Nat. PP | Red PVDF  | Nat. PVDF |
| 5. C.V. Seat-Carrier                            | Nat. PP                                           |         | Nat. PVDF |           |
| 6. O-ring <sup>3</sup> Body & Carrier; End Seal | FKM                                               |         |           |           |
| 7. O-ring <sup>3</sup> Seat-Carrier, OD Seal    | FKM                                               |         |           |           |
| 8. O-ring <sup>3</sup> Seat Seal                | FKM                                               |         |           |           |
| 9. Plain End Pipe Nipple for Flanged Valve      | Black PP                                          | Nat. PP | Red PVDF  | Nat. PVDF |
| 10. Flange-Socket for Flanged Valve             | Black PP                                          | Nat. PP | Red PVDF  | Nat. PVDF |

<sup>1</sup> All components except valve bodies are available as replacement parts.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> Polypropylene filled with glass micro-beads.

### Dimensions<sup>1</sup>—Weights—Fluid Flow Coefficients

| Valve Size | Ball Check/Foot |      |      |      | Ball Check Valve |        |        |         |                               | Seating Head Ft — H <sub>2</sub> O |        | Fluid Flow Coefficient C <sub>v</sub> <sup>3</sup> |
|------------|-----------------|------|------|------|------------------|--------|--------|---------|-------------------------------|------------------------------------|--------|----------------------------------------------------|
|            | A               | B    | C    | D    | E Thd.           | F Soc. | G Soc. | H Flgd. | Approx. <sup>2</sup> Wt. Lbs. | Vert.                              | Horiz. |                                                    |
| 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                                                |

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> C<sub>v</sub> values are based on the basic valve laying length (G).

Kynar® is a registered trademark of Arkema Inc.

**WARNING: DO NOT USE OR TEST THE PRODUCTS IN THIS CATALOG WITH COMPRESSED AIR OR OTHER GASES. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN PERSONAL INJURY OR DAMAGE TO PROPERTY.**

Revision 9/23/2013