

# F6/F7 Victaulic Butterfly Valves

## F6, F7 Victaulic Butterfly Valves

| Technical Data             |  |
|----------------------------|--|
| Service                    | chilled, hot water, 60% glycol               |
| Flow characteristic        | modified linear                              |
| Action                     | 90° rotation                                 |
| Sizes                      | 2" to 12"                                    |
| Type of end fitting        | grooved ANSI/AWWA (C606)                     |
| Materials                  |  |
| Body                       | ductile iron ASTM A536, grade 65-45-12316    |
| Disc                       | electroless nickel coated ductile iron       |
| Seat                       | EPDM   |
| Shaft                      | 416 stainless steel                          |
| Body pressure rating       | 300 psi at -30°F to +275°F [-34°C to +135°C] |
| Media temperature range    | -30°F to +250°F [-34°C to +120°C]            |
| Ambient temperature range  | -22°F to +122°F [-30°C to +50°C]             |
| Maximum close-off pressure | 200 psi                                      |
| Maximum velocity           | 20 FPS                                       |

- 200 psi (2" to 12") bubble tight shut-off
- Long stem design allows for 2" insulation
- Completely assembled and tested, ready for installation

### Application

These valves are designed to meet the needs of HVAC and commercial applications requiring bubble tight shut-off for liquids. Typical applications include chiller isolation, cooling tower isolation, change-over systems, large air handler coil control, bypass and process control applications. The large Cv values provide for an economical control valve solution for larger flow applications.

### Jobsite Note

Valves should be stored in a weather protected area prior to construction.

### Application Notes

1. Valves are rated at 200 psi differential pressure in the closed position.
2. Valves are furnished, assembled, tested, and ready for installation.
3. Provide support for the actuator if it is mounted at any angle other than 90° vertical.
4. Installer is to use rigid type couplings for connecting the valve to the piping.

### Installation Notes

For installing a Victaulic butterfly valve into a piping system, follow the instructions supplied with the coupling. Refer these notes for applications/limitations.

When using butterfly valves for throttling service, Victaulic recommends the disc be positioned no less than 30 degrees open. For best results, the disc should be between 30 and 70 degrees open. High pipeline velocities and/or throttling with the disc less than 30 degrees open may result in noise, vibration, cavitation, severe line erosion, and/or loss of control. For details regarding throttling services, contact Victaulic.

Victaulic recommends that flow velocities for water service are limited to 20 ft. per second/6.1 m per second. When higher flow velocities are necessary or when dealing with media other than water, contact Victaulic.

Victaulic recommends good piping practices and installing the valve five diameters away from other components.

Victaulic butterfly valves are designed with grooved ends for use with grooved pipe couplings. If flange connections are required, refer to the following notes regarding VIC-Flange Adapter restrictions:

- Style 741 VIC-Flange Adapters can be used on all sizes of VIC-300 MasterSeal\* butterfly valves.
- Style 743 VIC-Flange Adapters cannot be used with VIC-300 MasterSeal butterfly valves. A No. 43 ANSI 300 groove by flange adapter is required.

\*VIC-300 MasterSeal™ as manufactured by Victaulic Company