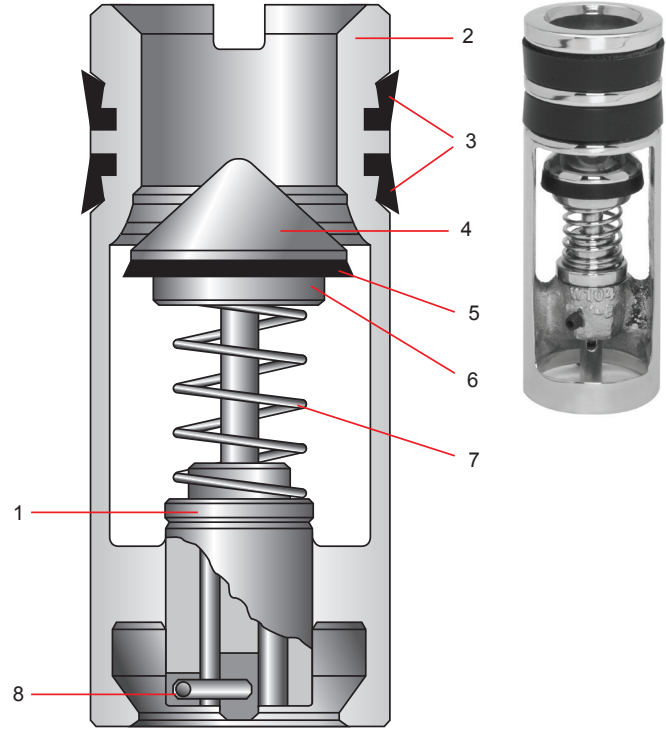


**Model F Plunger Type Valve**  
Product Family No. 48013 and 48043



**Model FC Automatic Fill Valve**  
Product Family No. 48018

## Model F // Plunger Type Valve

**Product Family Nos. 48013 and 48043 (Heavy Duty)**

The Model F Plunger Type Valve provides positive and instantaneous shut off against high and low pressure, assuring continuous control of fluid flow during drilling. For normal drilling operations, the durable Model F is the most economical choice and is available in all sizes.

The "Heavy Duty" Model F Drill Pipe Float Valve is designed with a low alloy steel body that increases the life of the Drill Pipe Float Valve. It provides high impact resistance and is dimensionally identical to the standard Forum Drill Pipe Float Valve, allowing interchangeability of the trim. This type of Drill Pipe Float Valve is recommended for use with downhole mud motors.

*Note: Not recommended for Air Drilling.*

### DIAGRAM KEY FOR MODEL F PLUNGER TYPE VALVE

- |                    |           |
|--------------------|-----------|
| 1. Valve Seal Disc | 5. Guide  |
| 2. Plunger/Valve   | 6. Spring |
| 3. Side Seal       | 7. Cage   |
| 4. Valve Seal      |           |

## Model FC // Automatic Fill Valve

**Product Family No. 48018**

The Model FC Automatic Fill Valve is ideal to use when drilling deep wells. The automatic fill feature on the Model FC allows the drill pipe to fill from the bottom, thereby removing the mess, hazards, and lost time from filling. When running in the hole, the automatic fill feature eliminates the "ram effect" preventing the downhole pressure surges that can cause formation damage.

The Model FC is slotted on the stem to accept a steel "automatic fill" key assembly that is automatically released by fluid circulation releasing the plunger for complete closure.

*Note: Not recommended for Air Drilling.*

### DIAGRAM KEY FOR MODEL FC PLUNGER TYPE VALVE

- |                  |                    |
|------------------|--------------------|
| 1. Guide         | 5. Valve Seal      |
| 2. Cage          | 6. Valve Seal Disc |
| 3. Side Seal     | 7. Spring          |
| 4. Plunger/Valve | 8. Key             |