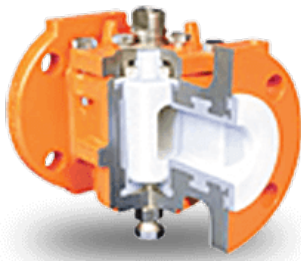




## 061 Series

## PFA Lined Plug Valve



### END CONNECTIONS

ANSI 150# Flange: 1/2" to 12"

### PRESSURE RANGE

29 inHg vacuum to 250 PSIG

### TEMPERATURE RANGE

-4 to 400°F

### MATERIALS

**Body:** PFA Lined Ductile Iron

**Plug:** PFA Lined Ductile Iron

The Assured Automation 061 is a PFA lined, Ductile Iron, ANSI Class 150 flanged Plug Valve. It can be equipped with a manual handle or with pneumatic or electric actuators. A full range of accessory items are available including limit switches, solenoid valves, positioners and manual override devices.

### FEATURES

- "Locked-in" PFA liner
- Rugged construction
- Quick quarter-turn rotation
- Ideal for corrosives
- Easy turning without lubrication
- Superior long-lasting shut-off
- One-piece integrally cast/lined plug & stem
- Inherent blow-out proof stem
- Self-cleaning on valve rotation
- Bi-directional laminar flow
- External adjustment of in-line seal
- Inherent double stem seal
- Excellent for vacuum services
- Self-draining in upright position
- NO body cavities
- Complete line of accessories

### TYPICAL APPLICATIONS

- Clean Liquids and Gases
- Corrosive Liquids and Gases
- Hazardous Liquids and Gases
- Viscous Liquids
- Fibrous Slurries
- Dry Materials
- Food/Pharmaceutical
- Vacuum Service

### ACTUATORS

#### Pneumatic

- Spring return
- Double acting

#### Electric

- various NEMA and IP ratings and voltages
- modulating or on/off

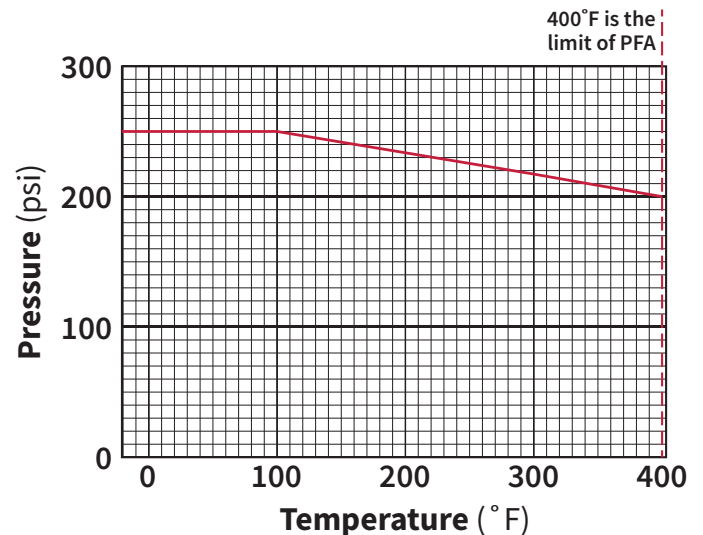
#### Manual

- Manual Hand Lever
- Manual Handle with Limit Switch
- Manual Geared Hand Wheel
- Geared Hand Wheel with chain wheel

### TORQUE & FLOW COEFFICIENTS

Size	Break Torque (in/lbs.)	Cv (gpm)
1/2"	260	9
3/4"	260	9
1"	400	43
1 1/2"	600	89
2"	800	172
3"	1,200	294
4"	1,800	548
6"	4,800	1,075
8"	15,000	1,591
10"	17,000	2,159
12"	21,000	3,200

### PRESSURE VS. TEMPERATURE





## 061 Series

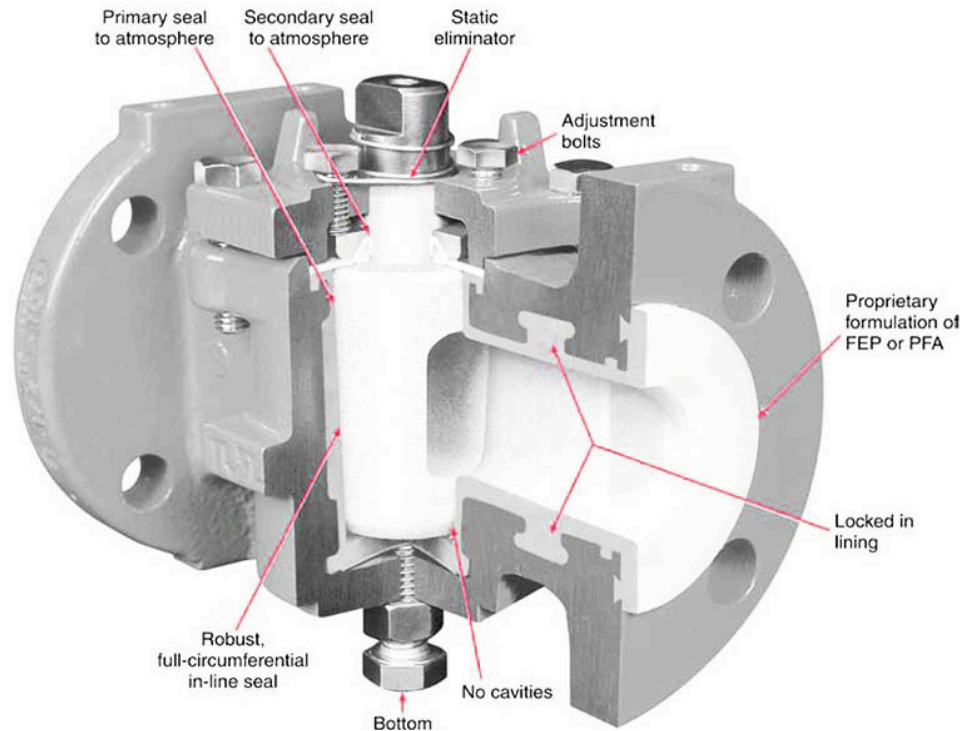


## PFA Lined Plug Valve

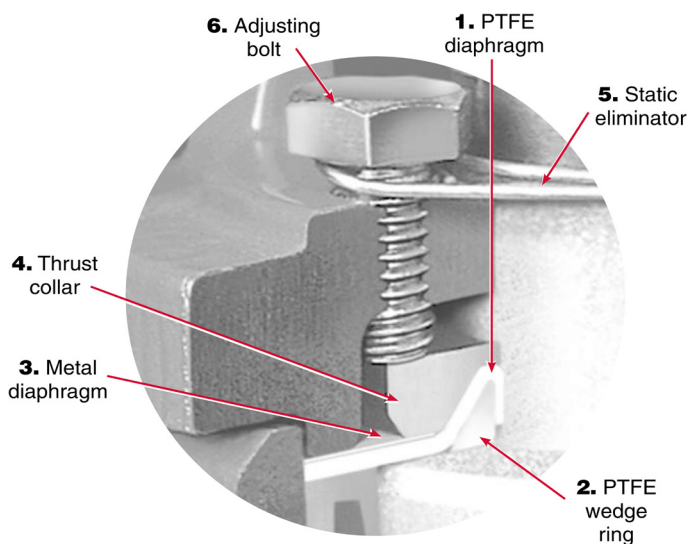
### FEATURES

#### Locked in lining:

PFA lined valve bodies and plugs incorporate dovetail recesses. With these recesses and machined grooves, linings are locked to the body and plug. The locked in lining resists shrinkage, collapse, and blow-out. Higher pressures and vacuums are easily handled.



### SECONDARY SEAL & ADJUSTMENT BOLTS



1. The PTFE diaphragm is shaped into an inverted V at its inner circumference. It seals at the cover joint and against the plug shank.
2. To help assure positive sealing and easy adjustment, the PTFE wedge ring fits into the V-formed inner circumference of the PTFE diaphragm. Sealing force is transmitted from the thrust collar (4) through the wedge ring.
3. A metal diaphragm is above the PTFE diaphragm and wedge ring. This metal diaphragm provides metal-to-metal contact at the cover joint. This prevents cold-flow of the PTFE diaphragm. This configuration provides two independent compression seals between the body and the cover. One seal is plastic; the second is metal.
4. On top of the metal diaphragm is a floating thrust collar which acts to assure uniform pressure on all sealing surfaces.
5. Above the cover, on the plug shank of wrench operated valves, is a static eliminator which provides a positive electrical ground between the body and the plug.
6. Three adjusting bolts in the cover impart downward force through the thrust collar (4), to the wedge ring (2), then to the inner leg of the inverted "V" of the PTFE diaphragm (1). This, together with the opposing force of the plug, provides a pressure assisted seal which is not adversely affected by plug movement. The adjusting bolts also facilitate quick and easy adjustment of in-line sealing.