

**PDC Thread End  
Series 07  
Butterfly Valve  
1" thru 4"**



**General Description:**

The PDC "Thread End" Series Butterfly Valve is available in sizes from 1" thru 4".

**Features:**

- Simplicity of construction
- Close tolerance angle seated disc machining for minimal leakage.
- Thread end construction provides maximum economy by eliminating need for mating flanges.
- Thread end valves can be customized for electric and pneumatic actuation. Consult factory.

**Standard Materials and Seat Construction:**

<b>Body:</b>	Cast Iron
<b>Disc:</b>	Carbon Steel
<b>Shaft</b>	Stainless Steel
<b>Seals:</b>	EPT O-Rings
<b>Seat:</b>	Angle

**Optional Materials and Seat Construction:**

<b>Seals:</b>	Viton O-Rings suitable for temperatures to 300°F
<b>Seat:</b>	Swing Thru

**Temperature:**

To 225°F. (Standard Materials)

**Maximum Containment:**

25 psi.

**Temperature:**

To 300°F. (Optional Materials)

**Maximum Differential:**

5 psi

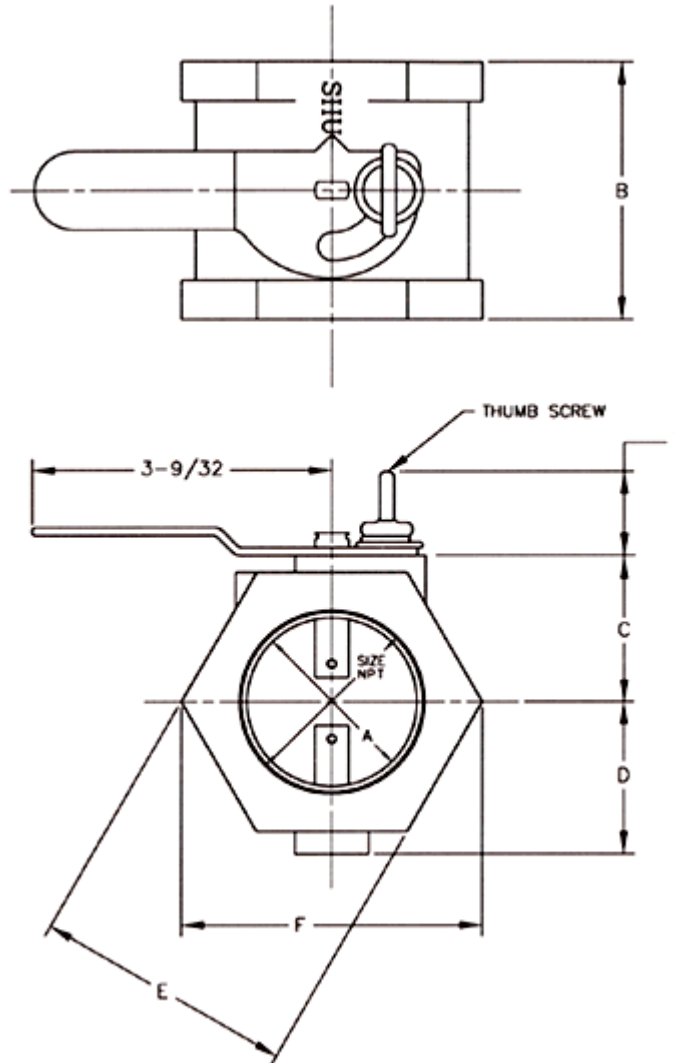
**PDC Thread End  
Series 07  
Butterfly Valve  
1" thru 4"**



**Typical Dimensions: 1" thru 4"**

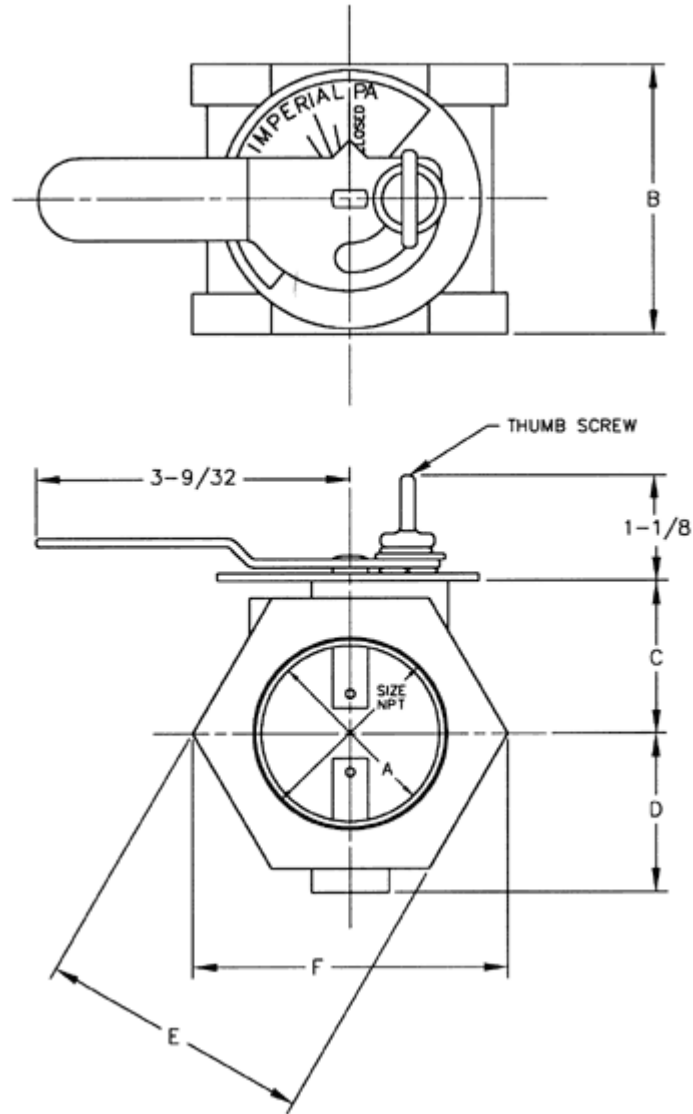
**Style A**

Thumb screw friction lock permits an infinite number of disc positions.



### Style C

Locking handle friction lock permits an infinite number of disc positions.



Size NPT	A	B	C	D	E	F	Approx. Wt. (LB.)
1	1.04	2-3/4	1-1/2	1-9/16	2-1/2	2-7/8	3.5#
1-1/2	1.60	2-3/4	1-1/2	1-9/16	2-1/2	2-7/8	3#
2	2.04	2-7/8	1-5/8	1-11/16	2-7/8	3-5/8	4#
2-1/2	2.44	3-5/8	2-1/16	2	3-1/2	4	5#
3	3.04	3-7/8	2-3/8	2-11/16	4-1/8	4-3/4	6#
4	4.02	4-1/2	2-7/8	2-15/16	5-1/8	5-5/16	10#

MAX ΔP is 5 PSI. MAX containment pressure is 25 PSI.

Process Development & Control, Inc. reserves the right to make design improvements and/or change dimensions without notice.

**PDC Thread End  
Series 07  
Butterfly Valve  
1" thru 4"**



**Cv Values for PDC Thread End Series Valves**

By definition, Cv is the flow coefficient of a control device or flow restriction. Cv is defined as the number of US gallons of 60°F water per minute which will flow through the given restriction with a one pound per square inch pressure drop.

**Cv Values**

(Flow in GPM of 60°F water at 1 psi pressure drop, Specific Gravity=1)

Valves Size	Disc Angles, Degrees								
	10	20	30	40	50	60	70	80	90
1	1	3.5	8	12	16	20	32	42	45
1.5	2.1	4.5	9	17	31	51	80	137	219
2	3.5	7	15	27	51	83	130	222	355
2.5	4.9	10	22	39	73	119	186	317	508
3	8	16	34	61	113	185	289	493	789
4	13	28	60	106	198	323	505	862	1,380

While this information is presented in good faith and believed to be accurate, PDC inc. does not guarantee results from reliance upon such information. Nothing contained herein is to be construed as a warranty or guarantee, expressed or implied, regarding the merchantability, fitness or any other matter with respect to the products. PDC Inc. reserves the right, without notice, to alter or improve the designs of the products herein.

**PDC Thread End  
Series 07  
Butterfly Valve  
1" thru 4"**



**How To Order**

\*Material Option Followed By an Asterisk, May Not be Routinely Carried in Inventory, and May Result in Longer Deliveries Than Normal.

**Use the following table to determine your part number:**

Example: 2" Thread End Angle seated butterfly valve with style "A" handle, cast iron body, carbon steel disc, 416 stainless steel shaft and EPT O-rings would be as follows.

**07-0020-2-1-1-2-1-5**

When "other " materials are selected, be sure to completely describe on purchase order.

**Please provide the following information:**

- **Flow Media**
- **Operating Temperature F°**
- **No. of [open/close] cycles/day**
- **Line Pressure (PSIG) = \_\_\_\_\_.**
- **Delta P = \_\_\_\_\_.**

<b>Valve Series 07</b>						
<b>Nominal Size Code</b>	<b>Seat Code</b>	<b>Handle Style</b>	<b>Body Material</b>	<b>Disc Material</b>	<b>Shaft Material</b>	<b>O-Ring Material</b>
0010 = 1.0"	1 = Swing Thru	1 = Style A	1 = Cast Iron	2 = Carbon Steel	1 = 416 S/S	5 = EPT
0015 = 1.5"	2 = Angle	2 = Style C				6 = VITON
0020 = 2.0"						
0025 = 2.5"						
0030 = 3.0"						
0040 = 4.0"						