

**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:

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

Optional Materials and Seat Construction:

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

Temperature:

To 225°F. (Standard Materials)

Maximum Containment:

25 psi.

Temperature:

To 300°F. (Optional Materials)

Maximum Differential:

5 psi

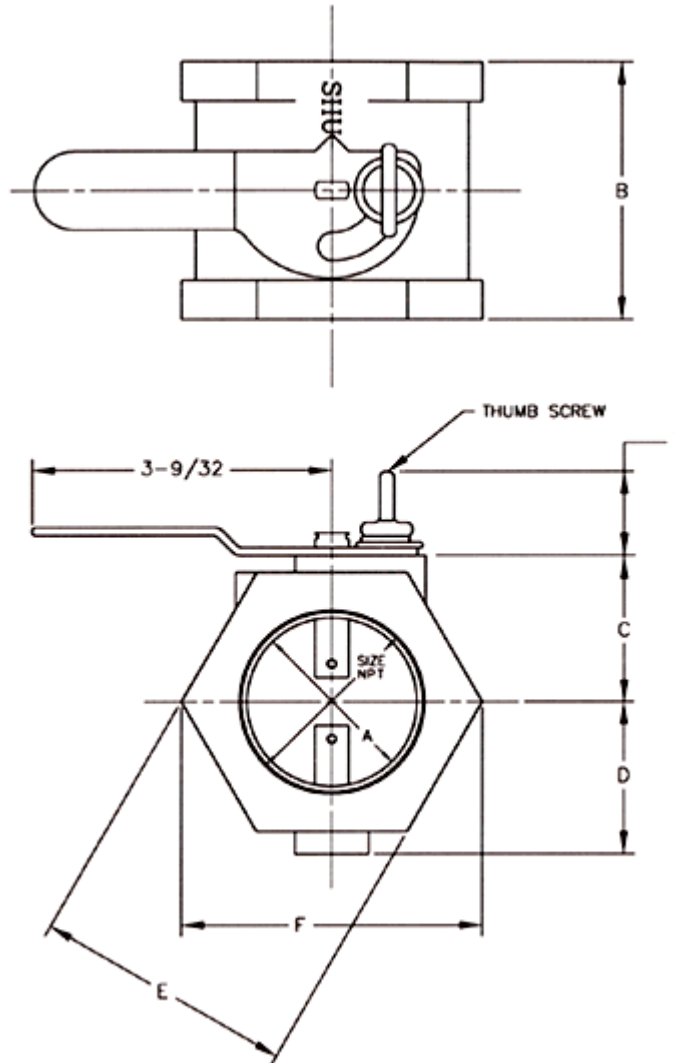
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Typical Dimensions: 1" thru 4"

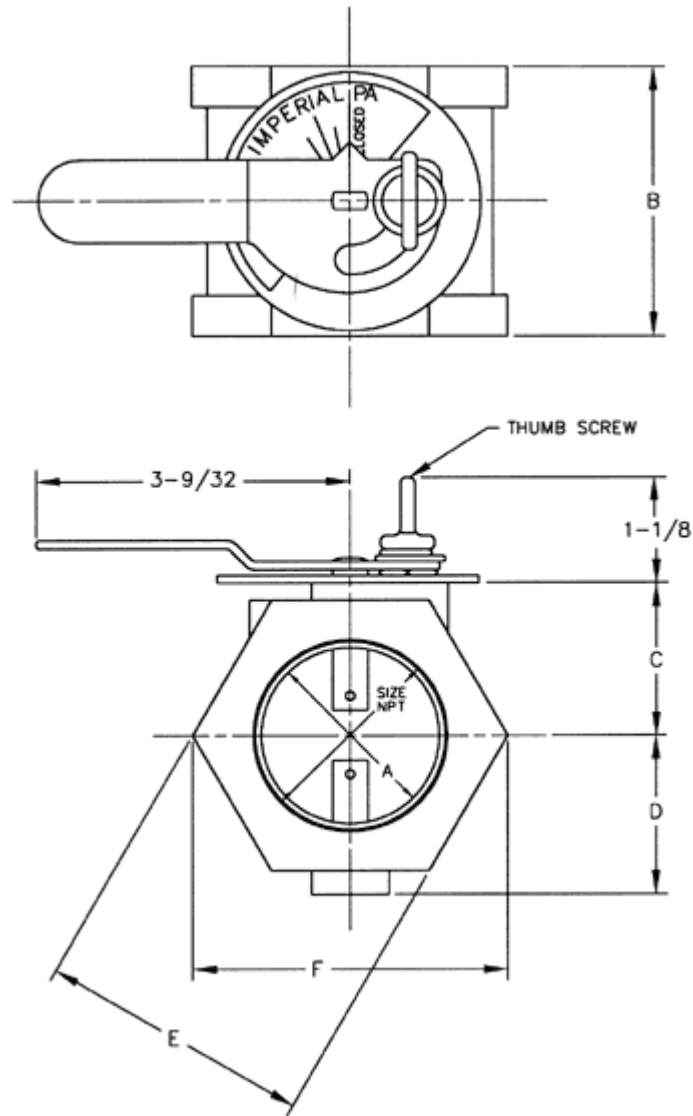
Style A

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.

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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

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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 = _____.**

Valve Series 07						
Nominal Size Code	Seat Code	Handle Style	Body Material	Disc Material	Shaft Material	O-Ring Material
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"						