

Product Catalogue

PDC Combustion Series 22 Butterfly Valve 2" thru 14" for 125/150 lb. Flanging



General Description:

The PDC Series 22 Combustion Valve is a cost effective, manual, wafer style butterfly valve designed for use in low pressure, low cycle ("set -and-forget") applications. It is designed for use in temperatures up to 900°F Maximum with differential pressures not to exceed 1 PSIG. The valve is designed with appropriate clearances in the disc for combustion installations. These applications are typically:"Hot" or "Cold" lines of air or combustible gases that require High-Low or Modulating flow control.

Features:

- Lightweight, solid ring, wafer design for ease of installation. Four holes to insure proper alignment without transfer of pipe stresses to the valve body.
- PDC's Combination 10 Position/Infinite Throttling & Locking Lever Assembly offers both types of the most commonly requested manual actuators in one unit.
- Adjustable packing Graphited TEFLON ® Braid for "Cold" (up to 450°F) applications Graphited Glass Yarn Reinforced with Inconel Wire for "Hot" (up to 900°F) applications.
- Valves can be repacked without removal from the line.
- Inboard bronze bushing on "Cold" (up to 450°F) applications and "metallized" carbon bushing on "Hot" (up to 900°F) applications are designed for long life, nonfreezing, low torque characteristics.

Standard Materials and Seat Construction:

	Cold (450°)	Hot (900°)			
Body:	Cast Iron	Cast Iron			
Disc:	Carbon Iron	Carbon Iron			
Shaft:	416 Stainless Steel	316 Stainless Steel			
Seat:	Swing-thru, Paddle Disc	Swing-thru, Paddle Disc			
Bushing:	Graphited Bronze	Metallized Carbon			
Packing:	Graphited Teflon	Graphited Yarn Reinforced with Iconoly			
Packing Nut:	Brass	316 Stainless Steel			

Optional Materials and Seat Construction:

Body:	Cast Iron				
Disc:	Cast Iron				
Shaft:	316 Stainless Steel				
Seat:	Swing-thru				
Bushing:	Metcar				
Packing:	High Temp Packing				
Packing Nut:	316 Stainless Steel				

Temperature:

Maximum design temperature to 900°F. Maximum differential pressure at all design temperatures is 1 psig. Maximum containment pressure at all design temperatures is 25 psig

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

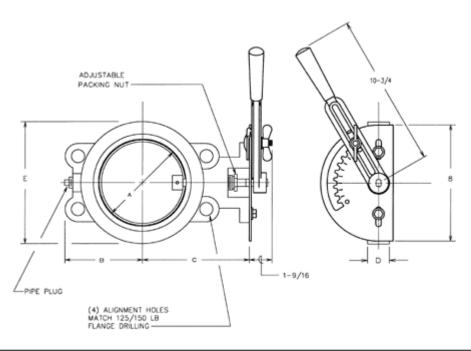


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Dimensions and How to Order



Valve Size	Valve Related Dimensions						
	Part Number	A	В	С	D	E	
2"	221-017-000-ZZ	2	2-3/4	5-3/8	1-1/2	3-7/8	
2.5"	221-027-000-ZZ	2-1/2	3	5-5/8	1-1/2	4-5/8	
3"	221-037-000-ZZ	3	3-1/8	5-7/8	1-1/2	5-1/4	
4"	221-047-000-ZZ	4	4-1/4	6-3/8	1-1/2	6-3/8	
5"	221-057-000-ZZ	5	4-7/8	6-7/8	1-1/2	7-1/2	
6"	221-067-000-ZZ	6	5-3/8	7-3/8	1-1/2	8-9/16	
8"	221-077-000-ZZ	8	6-1/2	8-3/8	1-1/2	10-3/4	
10"	221-087-000-ZZ	10	8	10-5/8	1-7/8	13	
12"	221-097-000-ZZ	12	9-1/2	11-5/8	1-7/8	15-1/4	
14"	221-107-000-ZZ	13-1/8	10-1/2	12-1/8	1-7/8	16-3/8	

Materials of Construction

	450°F Service	900°F Service		
Components	ZZ=00	ZZ=28		
Body	Cast Iron	Cast Iron		
Disc	Carbon Steel	Carbon Steel		
Shaft	416 Stainless Steel	316 Stainless Steel		
Bushing	Graphited Bronze	Metcar		
Packing	Graphited Teflon	High Temperature		
Packing Nut	Brass	316 Sainless Steel		

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Cv Data for Combustion Series 22 Swing Thru Seat

Cv Values

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

VALVE SIZE	DISC ANGLE, DEGREES								
	10	20	30	40	50	60	70	80	90
2"	2	5	12	21	36	51	67	87	95
2.5"	4	8	21	36	59	88	132	187	204
3"	6	15	32	54	89	139	212	293	389
4"	14	29	57	103	167	270	411	578	784
5"	22	45	92	166	278	450	668	959	1,336
6"	32	66	132	239	401	664	1,003	1,439	2,099
8"	56	117	236	426	714	1,181	1,783	2,721	4,046
10"	87	183	369	667	1,116	1,847	2,788	4,255	6,679
12"	126	265	531	960	1,608	2,660	4,017	6,127	9,622
14"	150	317	636	1,151	1,927	3,187	4,813	7,342	11,530

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