



ABZ
PRECISION BUILT
BUTTERFLY VALVES
FIGURE 108
For HVAC and Water Systems

ABZ BUTTERFLY VALVES

FIGURE 108

Resil-O-Seat™

**For Use in Heating,
Ventilation and Air Conditioning Systems**

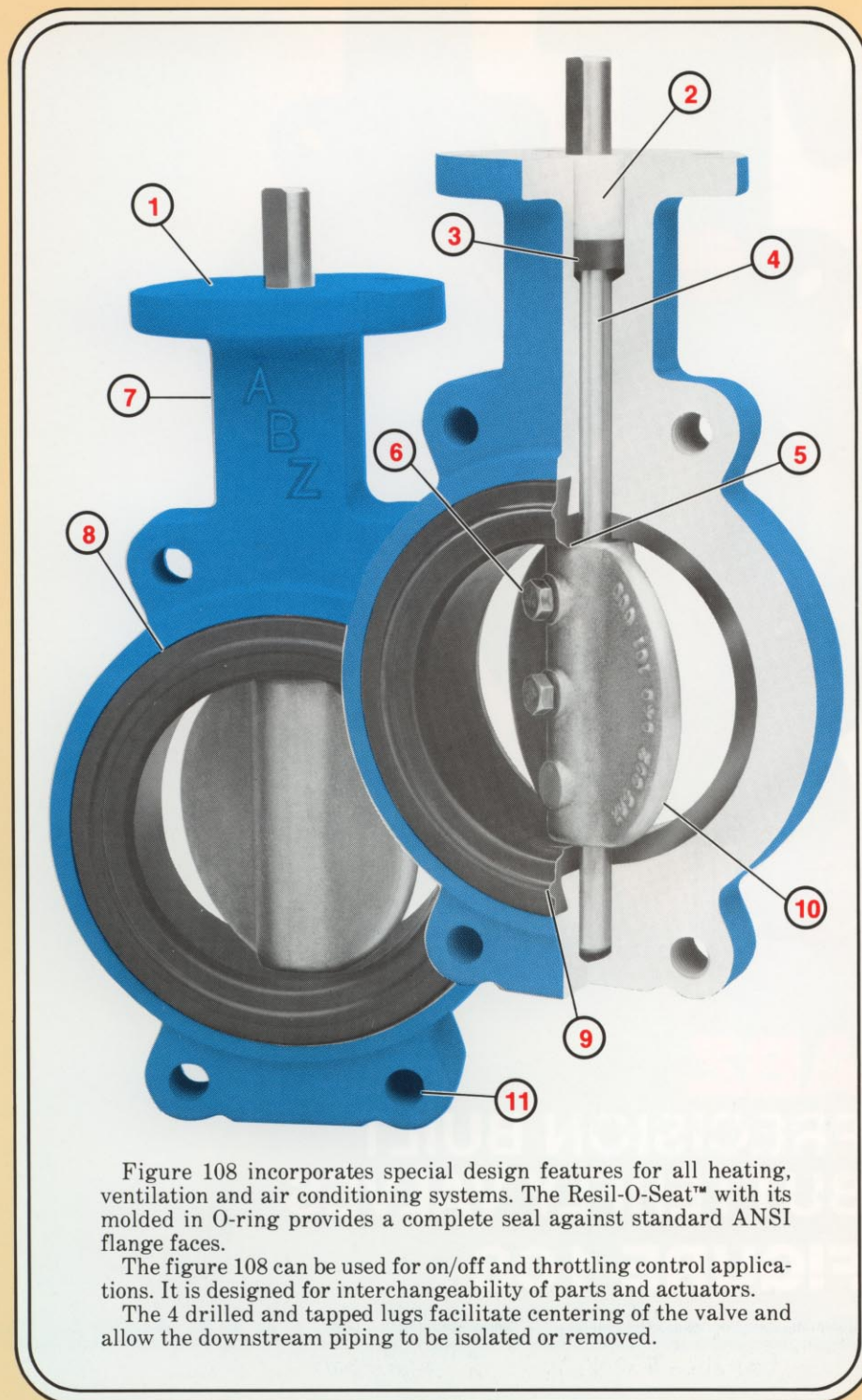
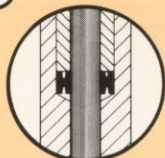




Figure 108 incorporates special design features for all heating, ventilation and air conditioning systems. The Resil-O-Seat™ with its molded in O-ring provides a complete seal against standard ANSI flange faces.

The figure 108 can be used for on/off and throttling control applications. It is designed for interchangeability of parts and actuators.

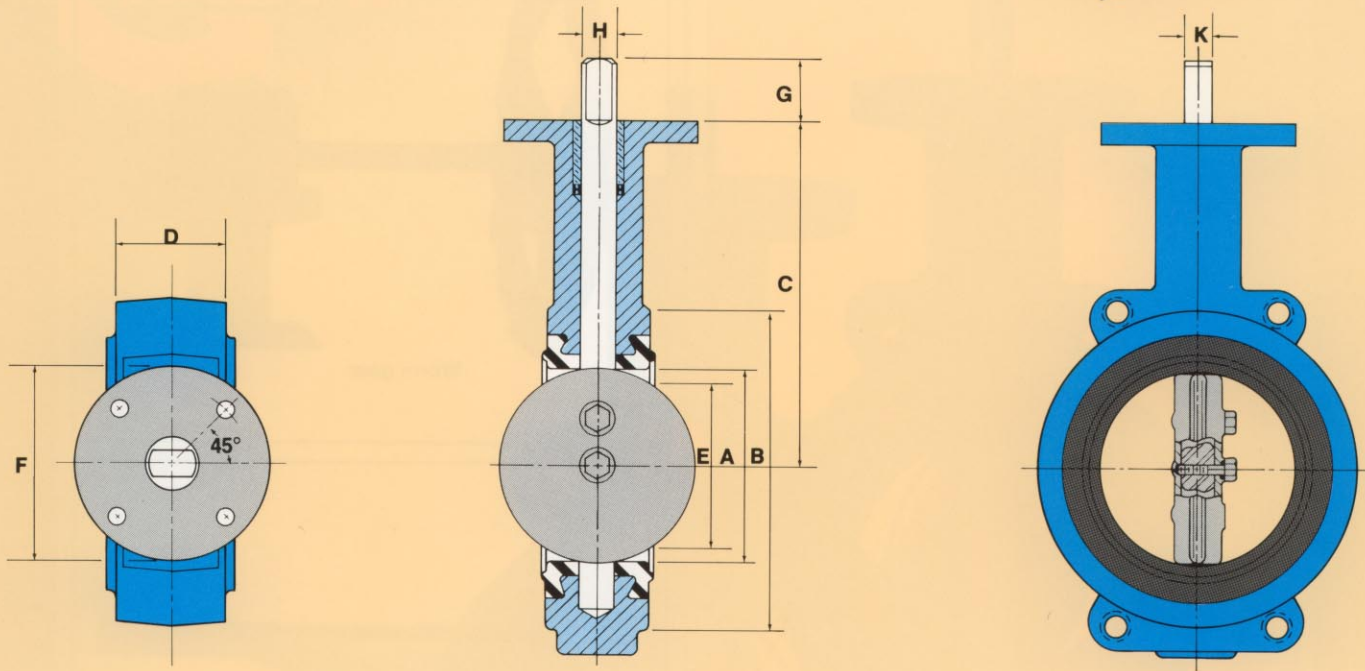
The 4 drilled and tapped lugs facilitate centering of the valve and allow the downstream piping to be isolated or removed.

- ① All cast body machined to high tolerances. Guaranteed standard dimensions for interchangeability of parts and actuators.
- ② Top bushing is impact and corrosion resistant material. Protects the stem from side thrust of actuators.
- ③ Special double-V-shape of stem seal self-adjusts to protect the stem area for either vacuum or pressure use.
 
- ④ Stem extends through disc and aligns with socket in body. Stem end has standard dimensions for operator interchangeability.
- ⑤ Stem and body are isolated from line media by seal created between disc flats and flat surface of seat.
- ⑥ Stainless steel cap screws securely hold disc to stem. O-ring seal prevents leakage into the stem area and creates a shake-proof connection.
 
- ⑦ Long neck allows for insulation requirements.
- ⑧ The special snap-in Resil-O-Seat™ design fixes seat in place without bonding. The Resil-O-Seat™ is 100% field replaceable — no special tools required.
 
- ⑨ Molded O-ring in the Resil-O-Seat™ forms a seal against all standard ANSI flanges. Gasketing requirements are eliminated.
- ⑩ Disc edge is individually processed through machining and hand buffing for a smooth edge, providing a bubble tight shutoff and maximum seat life. All valves tested to 200 PSI.
- ⑪ Special design of the figure 108 semi-lug body allows for service on downstream piping.

VALVE DIMENSIONS

The red dot signifies the high quality of workmanship and materials used in the production of this valve . . . "There is a Difference!"

ABZ VALVE
100% QUALITY TESTED



Valve Size	DIMENSIONS										WEIGHT (Pounds)	TOP PLATE DRILLING			TAPPED LUG DATA	
	A	B	C	D	E	F	G	H	K	Keyway		Bolt Circle	No. Holes	Hole Dia.	Bolt Circle	Tap
2	2 ¹ / ₈	4 ¹ / ₈	5 ¹ / ₂	1 ¹ / ₈	1 ¹¹ / ₁₆	4	1 ¹ / ₄	⁹ / ₁₆	³ / ₈		7 ¹ / ₂	3 ¹ / ₄	4	⁷ / ₁₆	4 ³ / ₄	⁵ / ₈ -11 UNC
2 ¹ / ₂	2 ⁵ / ₁₆	4 ⁷ / ₈	6	1 ³ / ₄	2 ³ / ₁₆	4	1 ¹ / ₄	⁹ / ₁₆	³ / ₈		10	3 ¹ / ₄	4	⁷ / ₁₆	5 ¹ / ₂	⁵ / ₈ -11 UNC
3	3 ¹ / ₈	5 ³ / ₈	6 ¹ / ₄	1 ³ / ₄	2 ⁷ / ₈	4	1 ¹ / ₄	⁹ / ₁₆	³ / ₈		11	3 ¹ / ₄	4	⁷ / ₁₆	6	⁵ / ₈ -11 UNC
4	4 ¹ / ₈	6 ⁷ / ₈	7	2	3 ³ / ₈	4	1 ¹ / ₄	⁵ / ₈	⁷ / ₁₆		17	3 ¹ / ₄	4	⁷ / ₁₆	7 ¹ / ₂	⁵ / ₈ -11 UNC
5	5 ³ / ₁₆	7 ³ / ₈	7 ¹ / ₂	2 ¹ / ₈	5	4	1 ¹ / ₄	⁵ / ₈	⁷ / ₁₆		21	3 ¹ / ₄	4	⁷ / ₁₆	8 ¹ / ₂	³ / ₄ -10 UNC
6	6 ¹ / ₈	8 ³ / ₄	8	2 ¹ / ₈	6	4	1 ¹ / ₄	⁵ / ₈	⁷ / ₁₆		26	3 ¹ / ₄	4	⁷ / ₁₆	9 ¹ / ₂	³ / ₄ -10 UNC
8	8 ¹ / ₈	11	9 ¹ / ₂	2 ¹ / ₂	8	6	1 ¹ / ₄	³ / ₄	¹ / ₂		42	5	4	⁹ / ₁₆	11 ³ / ₄	³ / ₄ -10 UNC
10	10 ¹ / ₈	13 ³ / ₈	10 ³ / ₄	2 ¹ / ₂	10 ¹ / ₁₆	6	1 ¹ / ₄	⁷ / ₈	⁵ / ₈		65	5	4	⁹ / ₁₆	14 ¹ / ₄	⁷ / ₈ - 9 UNC
12	12 ³ / ₃₂	16 ¹ / ₈	12 ¹ / ₄	3	11 ¹⁵ / ₁₆	6	2	1 ¹ / ₈		¹ / ₄ x ¹ / ₄	108	5	4	⁹ / ₁₆	17	⁷ / ₈ - 9 UNC

CONSTRUCTION SPECIFICATIONS:

Body: Cast iron
Disc: Aluminum bronze or epoxy ductile iron
Stem: 416 stainless steel
Seat: EPDM / Buna-N
Stem Bushing: Acetal
Stem Packing: Buna-N

NOTES:

1. Valve rated at 175 PSI.
2. Valve furnished with drilled and tapped lugs as shown for use between ANSI 125 or 150 pound flanges.
3. The figure 108 cannot be used on a pipe or flange with an inside diameter less than the "E" dimension.
4. Dimension "K" not applicable to 12" size. The 12" figure 108 stem is round with ¹/₄" x ¹/₄" keyway.

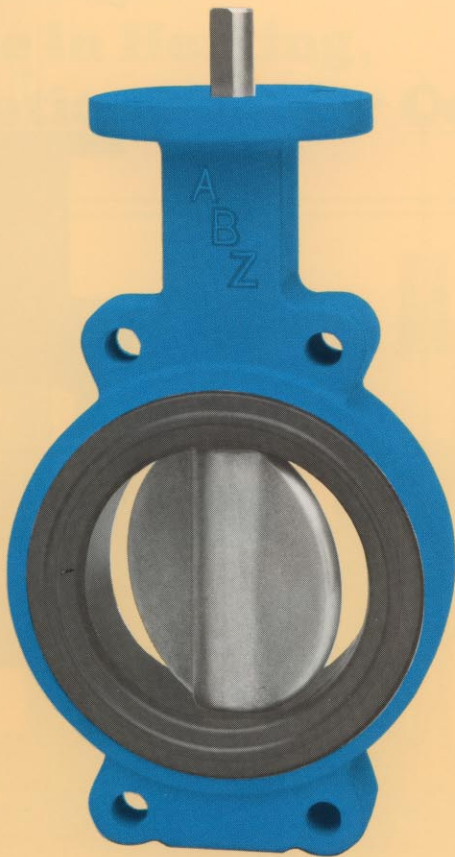
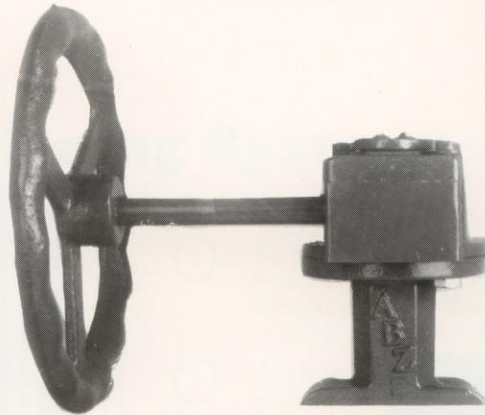
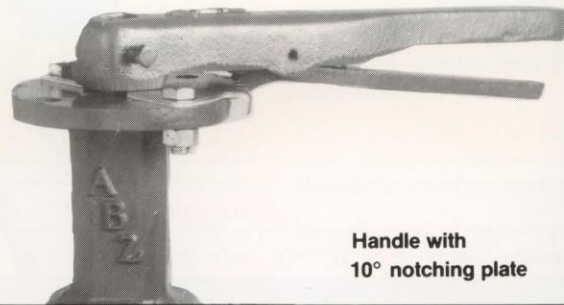


Fig. 108

The ABZ valves are designed for complete adaptability to utilize various actuators for throttling. They may be used with handles, gear operators, pneumatic or electric operators. As requirements change or the demand arises, actuators can be changed without changing the valve.



Worm gear



Handle with
10° notching plate



Direct mount pneumatic
actuator



Direct mount
electric actuator



ABZ VALVES & CONTROLS

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Printed in U.S.A.

108 Rev. 5-00