

A background image of a warehouse aisle with tall metal shelving units filled with various mechanical parts. The aisle is well-lit, and the shelves are organized with labels. The image is slightly faded to allow the text to stand out.

# ABZ BUTTERFLY VALVES

One Piece Semi Lug HVAC Butterfly Valves

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**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**

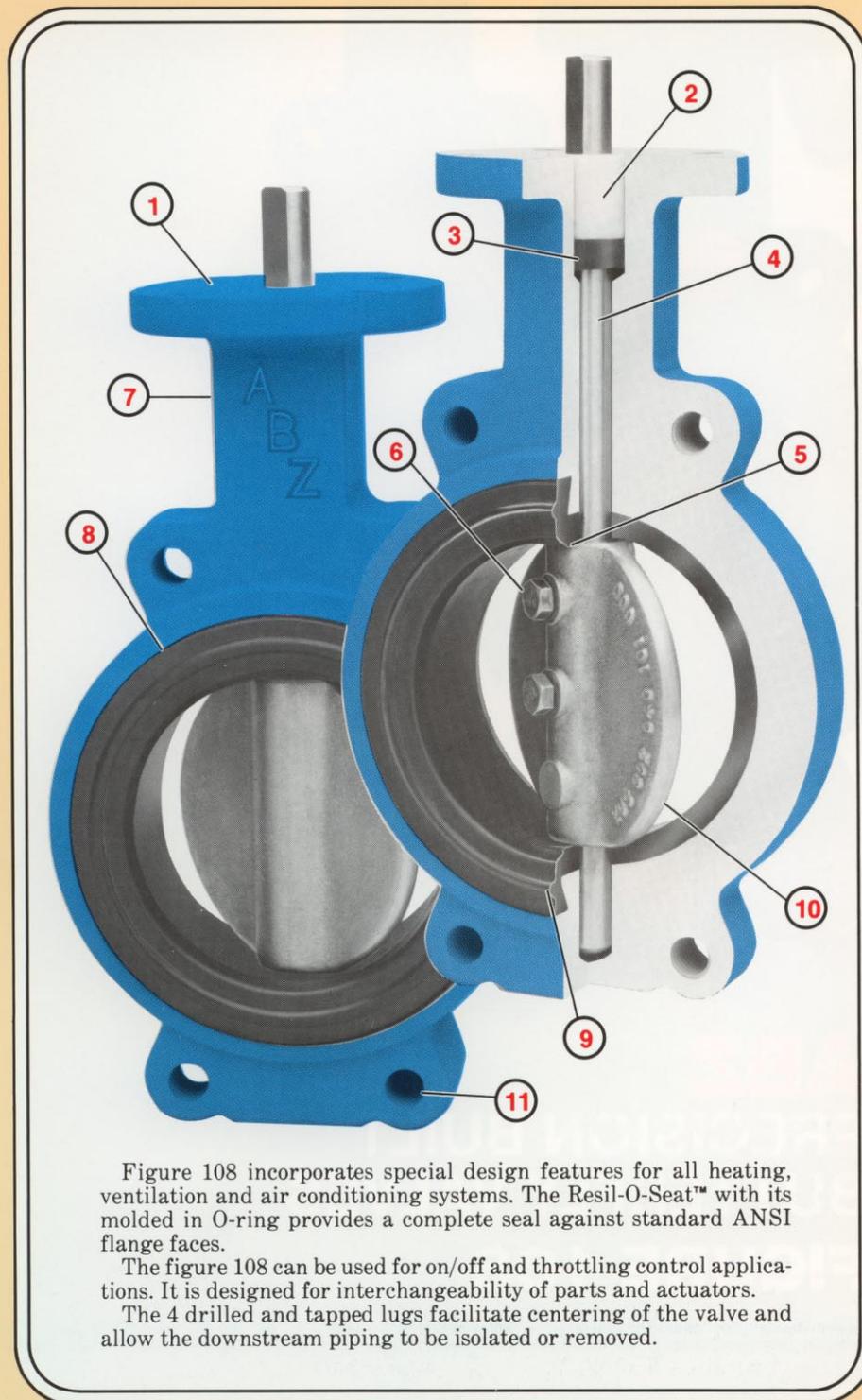
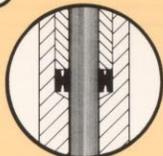


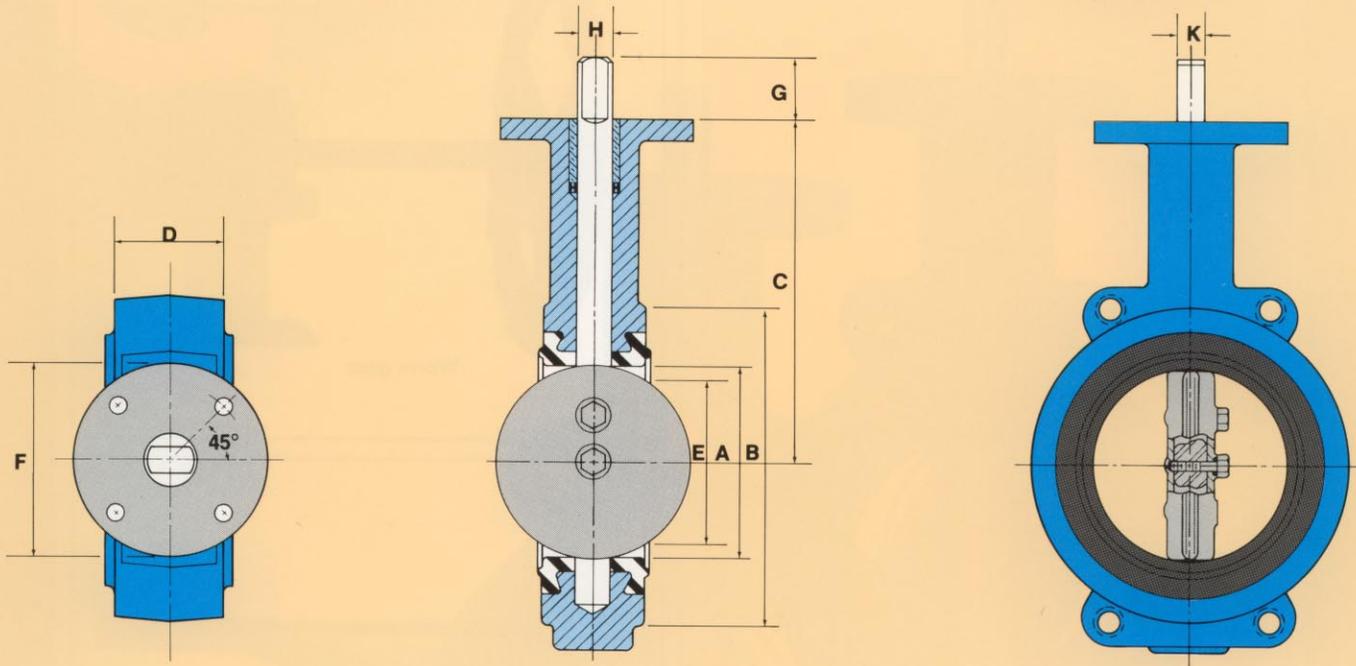
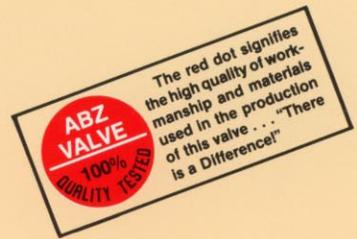
Figure 108 incorporates special design features for all heating, ventilation and air conditioning systems. The Resil-O-Seat™ with its molded in O-ring provides a complete seal against standard ANSI flange faces.

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



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 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>	4	1 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>	<sup>3</sup> / <sub>8</sub>		7 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub>	4	<sup>7</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>4</sub>	<sup>5</sup> / <sub>8</sub> -11 UNC
2 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>8</sub>	6	1 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>16</sub>	4	1 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>	<sup>3</sup> / <sub>8</sub>		10	3 <sup>1</sup> / <sub>4</sub>	4	<sup>7</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	<sup>5</sup> / <sub>8</sub> -11 UNC
3	3 <sup>1</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>16</sub>	4	1 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>	<sup>3</sup> / <sub>8</sub>		11	3 <sup>1</sup> / <sub>4</sub>	4	<sup>7</sup> / <sub>16</sub>	6	<sup>5</sup> / <sub>8</sub> -11 UNC
4	4 <sup>1</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>8</sub>	7	2	3 <sup>7</sup> / <sub>16</sub>	4	1 <sup>1</sup> / <sub>4</sub>	<sup>5</sup> / <sub>8</sub>	<sup>7</sup> / <sub>16</sub>		17	3 <sup>1</sup> / <sub>4</sub>	4	<sup>7</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	<sup>5</sup> / <sub>8</sub> -11 UNC
5	5 <sup>3</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>8</sub>	5	4	1 <sup>1</sup> / <sub>4</sub>	<sup>5</sup> / <sub>8</sub>	<sup>7</sup> / <sub>16</sub>		21	3 <sup>1</sup> / <sub>4</sub>	4	<sup>7</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>4</sub> -10 UNC
6	6 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	8	2 <sup>7</sup> / <sub>8</sub>	6	4	1 <sup>1</sup> / <sub>4</sub>	<sup>5</sup> / <sub>8</sub>	<sup>7</sup> / <sub>16</sub>		26	3 <sup>1</sup> / <sub>4</sub>	4	<sup>7</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>4</sub> -10 UNC
8	8 <sup>1</sup> / <sub>8</sub>	11	9 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	8	6	1 <sup>1</sup> / <sub>4</sub>	<sup>3</sup> / <sub>4</sub>	<sup>1</sup> / <sub>2</sub>		42	5	4	<sup>9</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>4</sub>	<sup>3</sup> / <sub>4</sub> -10 UNC
10	10 <sup>1</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>8</sub>	10 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>16</sub>	6	1 <sup>1</sup> / <sub>4</sub>	<sup>7</sup> / <sub>8</sub>	<sup>5</sup> / <sub>8</sub>		65	5	4	<sup>9</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>4</sub>	<sup>7</sup> / <sub>8</sub> - 9 UNC
12	12 <sup>3</sup> / <sub>32</sub>	16 <sup>1</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>4</sub>	3	11 <sup>15</sup> / <sub>16</sub>	6	2	1 <sup>1</sup> / <sub>8</sub>		<sup>1</sup> / <sub>4</sub> x <sup>1</sup> / <sub>4</sub>	108	5	4	<sup>9</sup> / <sub>16</sub>	17	<sup>7</sup> / <sub>8</sub> - 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 <sup>1</sup>/<sub>4</sub>" x <sup>1</sup>/<sub>4</sub>" keyway.

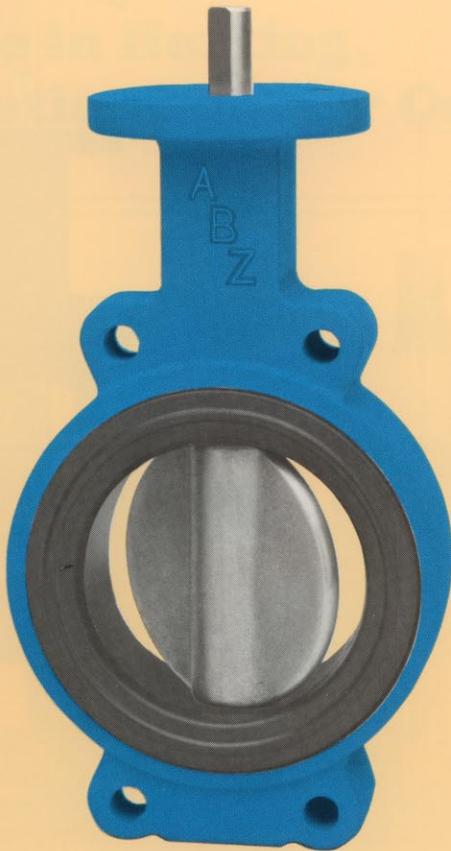
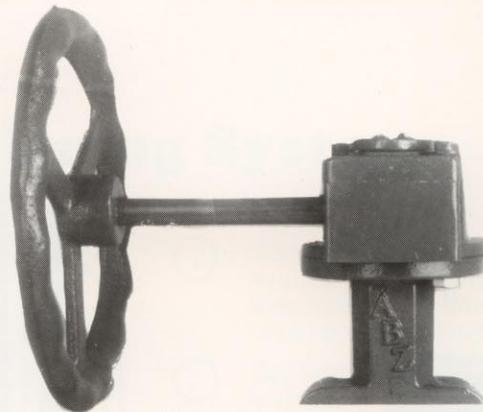


Fig. 108

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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