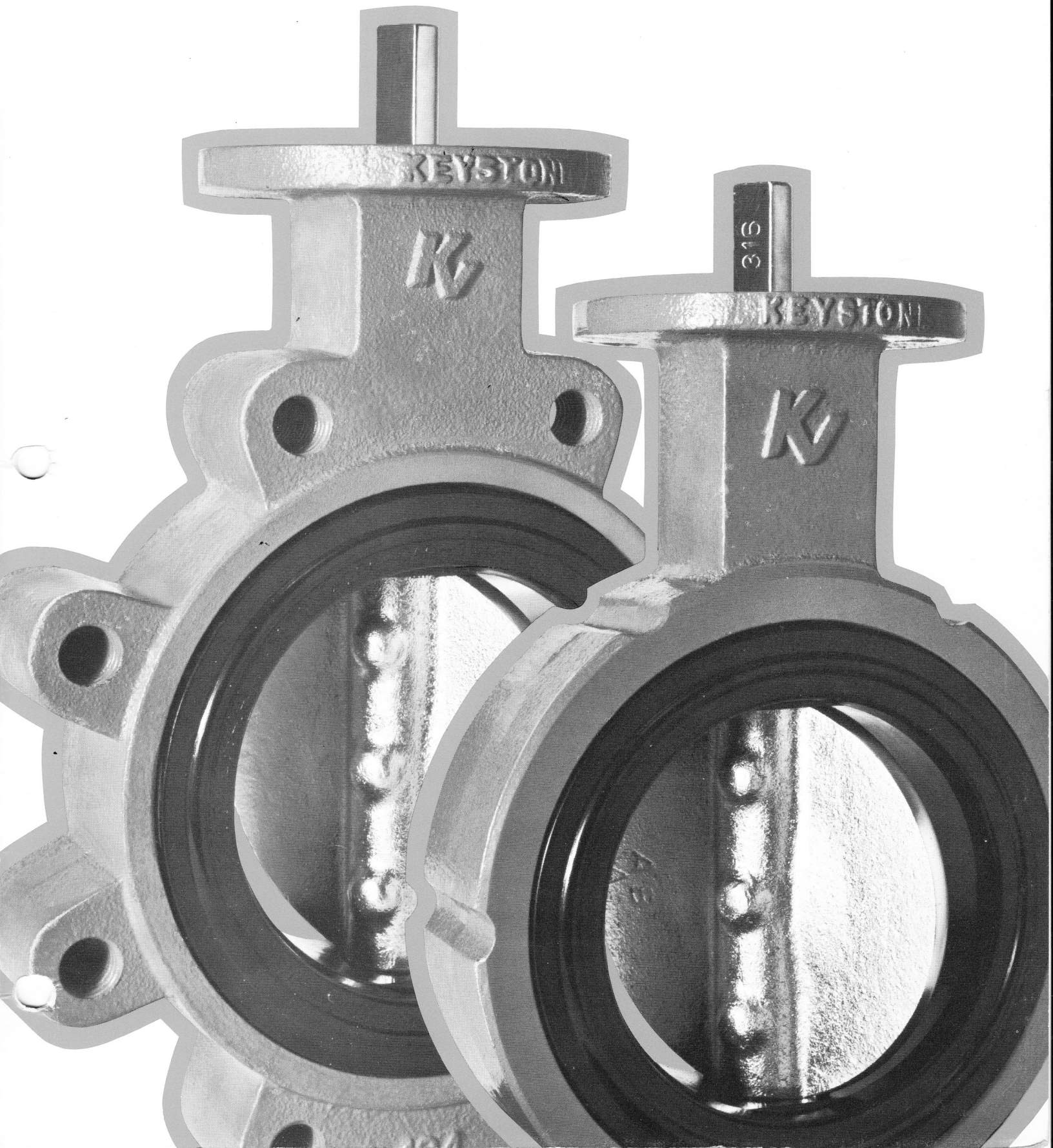


KEYSTONE BUTTERFLY VALVE
FIGURE 100/122
Resilient-seated/General Purpose Valve
Sizes 2"-36", 150 psi



**This is the design that started it all:
The Keystone Fig. 100/122 series general-purpose
butterfly valve with the patented dove-tail seat.**

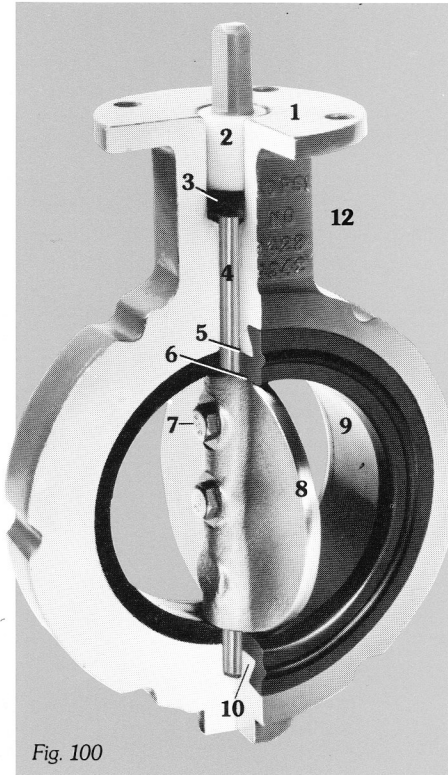


Fig. 100

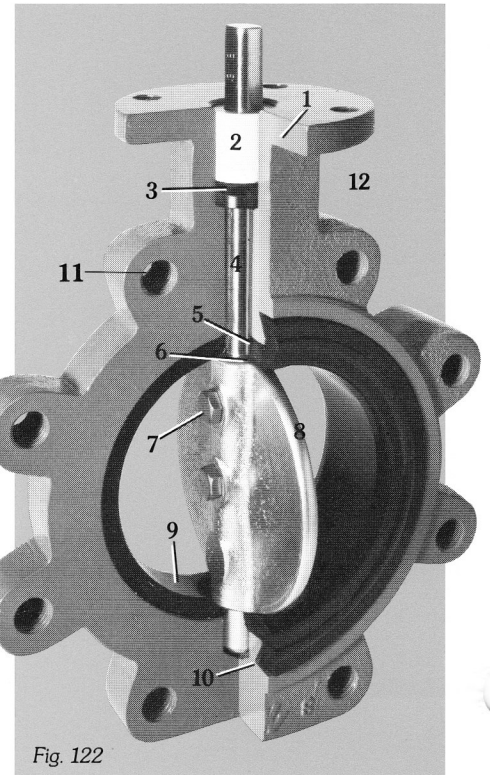


Fig. 122

Available materials of construction

- Body:** Cast iron, ductile iron, aluminum in Fig. 100, cast iron only in Fig. 122
- Disc:** Ductile iron, electroless nickel-coated ductile iron, aluminum bronze, 316 stainless steel
- Stem:** Coated steel, 316 stainless steel or 18-8 stainless steel
- Resilient seat:** EPDM, Buna N
- Stem bushing:** Acetal
- Disc screws:** 316 stainless steel
- "O" ring:** Buna N
- Stem packing:** Buna N

Rubber seated butterfly valves have been in use in pipelines carrying liquids and gases since the late 1920's. Prior to the development of synthetic rubbers, butterfly valves were of metal-seated type. In the early 40's, the use of rubber seated butterfly valves gained wider acceptance as flow control devices, as an alternative to gate, globe, ball and plug valves.

In 1951, the Keystone Butterfly Valve was developed especially to meet the requirements of the oil industry. Its design soon found universal acceptance in every industry where positive control of flow was a must. That design has become the universal standard for resilient seated wafer style butterfly valves: The Keystone Figure 100 and 122.

The Fig. 100 is a general purpose butterfly valve with over 30 years of proven performance in the process industries. The Fig. 122 is the companion to the Fig. 100, utilizing the same proven features in a lug-style body.

(1) Cast-in top plates are standardized for actuator interchangeability.

(2) Heavy-duty corrosion resistant top bushing absorbs actuator side thrust.

(3) Bi-directional stem seal is self-adjusting and suitable for pressure or vacuum.

(4) Thru-stem design provides high strength and positive disc control. Shaft ends are standardized for operator interchangeability.

(5) Secondary stem seal is effected by stem diameter being larger than seat hole, causing an interference fit.

(6) Primary stem seal is formed by pre-loaded contact of disc hub with flatted seat surfaces. Completely isolates stem and body parts from the stream.

(7) Special self-locking stainless disc screws allow quick and easy disassembly and full interchangeability. Connection is positive, shakeproof and designed for maximum torque capacity. (Valves 24" and larger have special taper pins with seals and retainer nuts.)

(8) Rounded and hand-polished disc and hub edge provides full concentric seating, lower torques and longer seat life.

(9) Replaceable seat isolates the stem and body parts from the stream and also serves as flange gasket. Molded-in O-ring provides positive seal against standard ANSI flange faces.

(10) Patented dove-tail seat retention method eliminates the need for bonding; makes seat replacement simple and fast. Extra heavy edge section resists tearing. Meets AWWA thickness requirements.

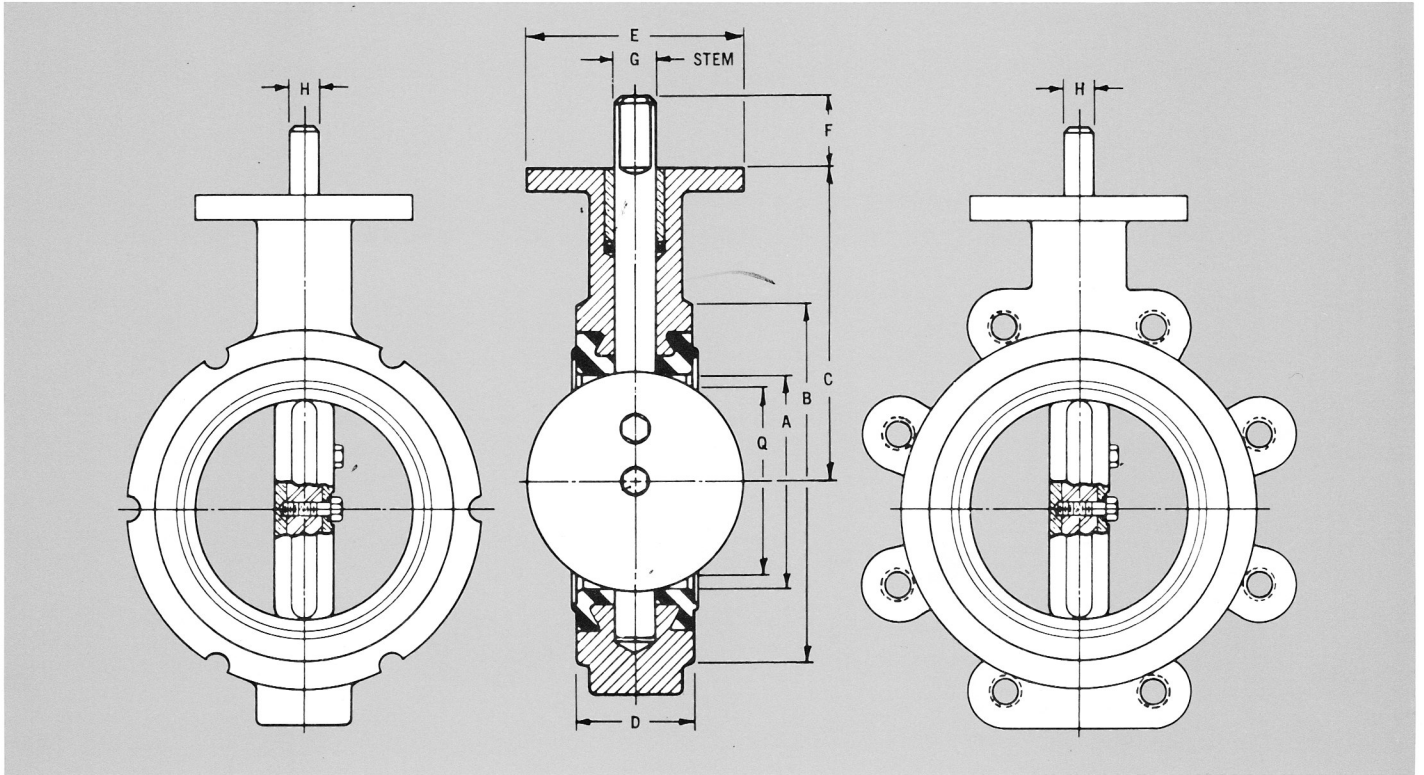
(11) Tapped lugs for 125/150 class ANSI flange drilling. Fig. 122 body design fulfills applications requiring tapped lugs for installation.

(12) Bubble-tight shut-off every valve is tested at 10% over full pressure rating.

All design features of the Fig. 100/122 series valves are protected by U.S. and international patents.

KEYSTONE BUTTERFLY VALVE FIGURE 100/122

Resilient-seated/General Purpose Valve Sizes 2"-36", 150 psi



Valve Size	DIMENSIONS										TOP PLATE DRILLING			FIG. 122 TAPPED LUG DATA			WEIGHT (Pounds)	
	A	B	C	D	E	F	G	H	KEYWAY	Q	Bolt Circle	No. Holes	Hole Dia.	Bolt Circle	No. Holes	Tap	100	122
2	2 ¹ / ₈	4 ¹ / ₈	3 ¹⁵ / ₁₆	1 ⁵ / ₈	4	1 ¹ / ₄	9 ¹ / ₁₆	3 ³ / ₈		11 ¹¹ / ₁₆	3 ¹ / ₄	4	7 ¹ / ₁₆	4 ³ / ₄	4	5 ⁸ / ₁₁ UNC	6	7 ¹ / ₂
2 ¹ / ₂	2 ⁹ / ₁₆	4 ⁷ / ₈	4 ¹ / ₂	1 ³ / ₄	4	1 ¹ / ₄	9 ¹ / ₁₆	3 ³ / ₈		2 ³ / ₁₆	3 ¹ / ₄	4	7 ¹ / ₁₆	5 ¹ / ₂	4	5 ⁸ / ₁₁ UNC	8	10
3	3 ¹ / ₈	5 ³ / ₈	4 ⁷ / ₈	1 ³ / ₄	4	1 ¹ / ₄	9 ¹ / ₁₆	3 ³ / ₈		2 ⁷ / ₈	3 ¹ / ₄	4	7 ¹ / ₁₆	6	4	5 ⁸ / ₁₁ UNC	9	11
4	4 ¹ / ₈	6 ⁷ / ₈	6	2	4	1 ¹ / ₄	5 ⁵ / ₈	7 ¹ / ₁₆		3 ⁷ / ₈	3 ¹ / ₄	4	7 ¹ / ₁₆	7 ¹ / ₂	8	5 ⁸ / ₁₁ UNC	13	17
5	5 ³ / ₁₆	7 ⁵ / ₈	6	2 ¹ / ₈	4	1 ¹ / ₄	5 ⁵ / ₈	7 ¹ / ₁₆		5	3 ¹ / ₄	4	7 ¹ / ₁₆	8 ¹ / ₂	8	3 ⁴ / ₁₀ UNC	15	21
6	6 ¹ / ₈	8 ³ / ₄	6 ¹ / ₂	2 ¹ / ₈	4	1 ¹ / ₄	5 ⁵ / ₈	7 ¹ / ₁₆		6	3 ¹ / ₄	4	7 ¹ / ₁₆	9 ¹ / ₂	8	3 ⁴ / ₁₀ UNC	19	26
8	8 ¹ / ₈	11	8 ⁵ / ₁₆	2 ¹ / ₂	6	1 ¹ / ₄	3 ³ / ₄	1 ¹ / ₂		8	5	4	9 ¹ / ₁₆	11 ³ / ₄	8	3 ⁴ / ₁₀ UNC	31	42
10	10 ¹ / ₈	13 ³ / ₈	9	2 ¹ / ₂	6	1 ¹ / ₄	7 ⁷ / ₈	5 ⁵ / ₈		10 ¹ / ₁₆	5	4	9 ¹ / ₁₆	14 ¹ / ₄	12	7 ⁸ / ₉ UNC	47	65
12	12 ³ / ₃₂	16 ¹ / ₈	10 ⁹ / ₃₂	3	6	2	1 ¹ / ₈		1 ¹ / ₄ x 1 ¹ / ₄	11 ¹⁵ / ₁₆	5	4	9 ¹ / ₁₆	17	12	7 ⁸ / ₉ UNC	88	108
14	13 ¹ / ₄	17 ³ / ₄	12	3	6	3	1 ³ / ₈		5 ⁹ / ₁₆ x 5 ⁹ / ₁₆	13 ¹ / ₈	5	4	9 ¹ / ₁₆	18 ³ / ₄	12	1 - 8 UNC	114	143
16	15 ¹ / ₄	20 ¹ / ₄	12 ⁶¹ / ₆₄	4	6	3	1 ⁵ / ₈		3 ³ / ₈ x 3 ³ / ₈	15	5	4	9 ¹ / ₁₆	21 ¹ / ₄	16	1 - 8 UNC	193	238
18	17 ¹ / ₄	21 ⁵ / ₈	14 ¹ / ₂	4 ¹ / ₄	8	4 ¹ / ₄	1 ⁷ / ₈		1 ¹ / ₂ x 3 ³ / ₈	16 ⁷ / ₈	6 ¹ / ₂	4	1 ³ / ₁₆	22 ³ / ₄	16	1 ¹ / ₈ - 7 UNC	222	261
20	19 ¹ / ₄	23 ⁷ / ₈	15 ⁷ / ₈	5	8	4 ¹ / ₄	1 ⁷ / ₈		1 ¹ / ₂ x 3 ³ / ₈	18 ³ / ₄	6 ¹ / ₂	4	1 ³ / ₁₆	25	20	1 ¹ / ₈ - 7 UNC	315	366
24	23 ¹ / ₄	28 ¹ / ₄	19 ¹ / ₂	5 ¹⁵ / ₁₆	8	4 ¹ / ₄	1 ⁷ / ₈		1 ¹ / ₂ x 3 ³ / ₈	22 ⁵ / ₈	6 ¹ / ₂	4	1 ³ / ₁₆	—	—	—	506	—
30	29 ¹ / ₄	34 ⁵ / ₈	23	6 ⁵ / ₈	8	4 ¹ / ₄	2 ¹ / ₄		1 ¹ / ₂ x 3 ³ / ₈	28 ¹¹ / ₁₆	6 ¹ / ₂	4	1 ³ / ₁₆	30" & 36" Fig. 100 Have 4 Tapped Holes Each Face at Hubs on St'd. 125 Lb. ANSI Bolt Circle			610	—
36	35 ¹ / ₄	41 ¹ / ₄	27 ³ / ₄	7 ⁷ / ₈	8	5 ¹ / ₂	2 ⁷ / ₈		3 ³ / ₄ x 1 ¹ / ₂	34 ¹ / ₂	6 ¹ / ₂	4	1 ³ / ₁₆				1885	—

Notes:

All sizes designed to fit between 125 or 150 ANSI flanges.

Sizes 2-10: G stem connection diameter with H flats.

Sizes 12-20: G stem connection diameter with KEYWAY.

Q is the minimum allowable pipe or flange inside diameter.