

2"-24"(50mm-600mm)

AEN.TECH is proud to offer a line of superior quality and high pressure manual butterfly valves, which meet today's requirements of heating, ventilating & air conditioning (HVAC). The Series A131H lug type is rated for 250 psi bidirectional dead end service, while the Series A136H is rated for 150 psi bidirectional dead end service.

Feature:

- Lug valves(A131H. 2-20") and flanged (A136H, 24") are drilled and tapped to meet ANSI Class 125/150 flanges.
- Bidirectional and tested to 110% of full pressure rating.
- •The unique close tolerance, double "D" connection drives the valve disc on A131H. This design eliminates the need for exposed stem retention components, such as: disc screws, to the line media which commonly results in leak paths, corrosion, and vibration failures. Due to wear and corrosion, disc screws are often required difficult machining for dis-assembly. Dis-assembly of AEN.TECH stem is just a matter of pulling the stem out of the disc.
- •Disc casting is spherically machined and hand polished to provide a bubble tight shut-off. With minimum torque and

an extended seat cycle life.

- AEN.TECH's unique design of stem retaining O-rings provide a blow-out proof stem on A131H.
- Unique "tongue and groove" seat design bonded to the body by a special adhesive, is designed to seal with slip-on or weld-neck flanges. The seat totally encases the valve interior to separate the media from the body.
- Primary and secondary seals are interference fits between seat and disc hub and stem and seat stem hole respectively.
- Molded seat O-ring provides seal between valve and pipe flanges. flange gaskets are not need in this valve.
- Non-corrosive, heavy duty acetic bushing absorbs side thrusts on A131H, and bronze bearing on A136H.
- Stem packing gland on A131H is a self-adjusting double"U" cup design and gives positive sealing in both directions. which will stop external substances from entering to the stem bore. The A136H has an adjustable packing gland. Mounting flange meets ISO 5211 and allows directly mounting of AEN.TECH manual operators.

SPECIFICATIONS

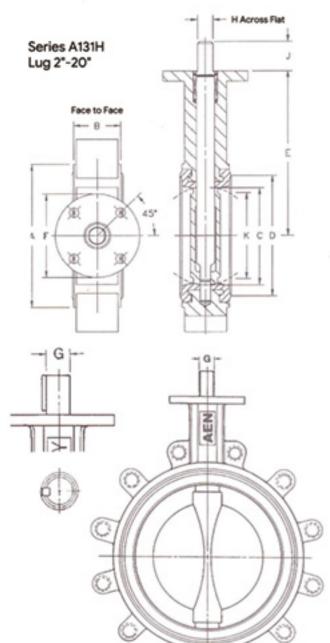
Pressure Ratings

For bidirectional or dead end service, bubble-tight shut off, disc in closed position:

2"-20"(50mm-500mm)

150 psi

250 psi 24"(600mm)



Temperature Range of Seats

Aerospace-Bonded EPDM: -40°F(-40°C) to 250°F(+121°C)

Velocity Limits

For On/Off Service:

Fluids - 30 ft/sec (9m/sec) Gases - 175 ft/sec(54m/sec)

How to Order

2"-20" is for A131H 24" is for A136H

Materials Selection

Body: Cast Iron, ASTM A126 Class B Disc:Aluminum bronze, ASTM B148-954 Stem:Type 416 stainless steel, ASTM A 582 Seat:EPDM

Installation and Maintenance

Please refer to AEN.TECH technical bulletin 1071 for Series A131 valves and technical bulletin 1114 for Series A136 valves.

Cv Values-Valve Sizing Coefficient

Valve Size		Disc position(degrees)											
ins	mm	90°	80°	70°	60°	50°	40°	30°	20°	10			
2	50	144	114	84	61	43	27	16	7	1			
21/2	65	282	223	163	107	67	43	24	11	1.5			
3	80	461	364	267	154	96	61	35	15	2			
4	100	841	701	496	274	171	109	62	27	3			
5	125	1376	1146	775	428	268	170	98	43	5			
6	150	1850	1542	1025	567	354	225	129	56	6			
8	200	3316	2842	1862	1081	680	421	241	102	12			
10	250	5430	4525	2948	1710	1076	667	382	162	19			
12	300	8077	6731	4393	2563	1594	1005	555	235	27			
14	350	10538	8874	5939	3384	2149	1320	756	299	34			
16	400	13966	11761	7867	4483	2847	1749	1001	397	45			
18	450	17214	14496	10065	5736	3643	2237	1281	507	58			
20	500	22339	18812	12535	7144	4536	2786	1595	632	72			
24	600	33154	27186	18235	11040	6962	4244	2387	1028	259			

Cv is defined as the volume of water in China that will flow through a given restriction or valve opening with a pressure drop of one(1) p.s.i. at room temperature. Recommended control angles are between 25°-70° open. Preferred angle for control valve sizing is 60°-65° open.

Dimensions Series A131H Lug 2"-20", Series A136H Double Flanged 24"

Valve size			_	_	_	_	_	Mounting flange drig.			_			
ins	mm	A B	В	С	D	E	F	BC	No. Holes	Hole Dia.	G	н	J	K
2	50	3.69	1.62	2.00	2.84	5.50	3.54	2.76	4	.38	.55	.39	1.25	1.32
2½	65	4.19	1.75	2.50	3.34	6.00	3.54	2.76	4	.38	.55	.39	1.25	1.91
3	80	4.88	1.75	3.00	4.03	6.25	3.54	2.76	4	.38	.55	.39	1.25	2.55
4	100	6.06	2.00	4.00	5.16	7.00	3.54	2.76	4	.38	.63	.43	1.25	3.57
5	125	7.12	2.12	5.00	6.16	7.50	3.54	2.76	4	.38	.75	.51	1.25	4.63
6	150	8.12	2.12	5.75	7.02	8.00	3.54	2.76	4	.38	.75	.51	1.25	5.45
8	200	10.50	2.50	7.75	9.47	9.50	5.91	4.92	4	.56	.87	.63	1.25	7.45
10	250	12.75	2.50	9.75	11.47	10.75	5.91	4.92	4	.56	1.18	.87	2.00	9.53
12	300	14.88	3.00	11.75	13.47	12.25	5.91	4.92	4	.56	1.18	.87	2.00	11.47

Valve size			_	_	_	_	_	Mounting flange drig.		_		Key	v	
ins	mm	^	В	С	D	E	F	BC	No. Holes	Hole Dia.	G	Н	Size	K
14	350	16.94	3.00	13.25	15.28	13.62	5.91	4.92	4	.56	1.38	2.00	.39x.39	13.04
16	400	19.06	4.00	15.25	17.41	14.75	5.91	4.92	4	.56	1.38	2.00	.39x.39	14.85
18	450	21.12	4.25	17.25	19.47	16.00	8.27	6.50	4	.81	1.97	2.50	.39x.47	16.85
20	500	23.25	5.00	19.25	21.59	17.25	8.27	6.50	4	.81	1.97	2.50	.39x.47	18.73
24	600	33.00	5.94	23.25	25.75	19.50	8.27	6.50	4	.81	2.50	4.00	.62x.62	22.69

Lug b	Lug bolting data								
BC	No. Holes	Threads UNC-28							
18.75	12	1-8							
21.25	16	1-9							
22.75	16	11/8-7							
25.00	20	11/8-7							
	20	11/4-7							

Lug bolting data

4

4

8

12

5/8-11

5/8-11

5/8-11

5/8-11

3/4-10

3/4-10

7/8-9

7/8-9

BC

4.75

5.50

6.00

7.50

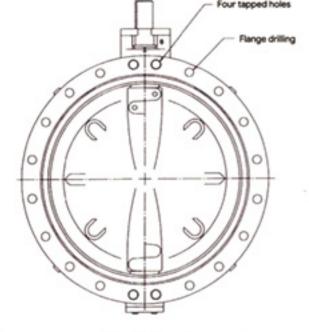
8.50

9.50

11.75

14.25

17.00



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Series A136H Double Flanged

24"

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