



# JACOBY-TARBOX®

A Product Line of The Clark-Reliance Corporation

Over 80 years of Quality!

## Full-View Sight Flow Indicator Flanged Bulls-Eye Models 300 & 600 ASME Class

Section: T100  
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Jacoby-Tarbox's full ASME rated line of flanged bulls-eye sight flows have been engineered per the design criteria of the ASME B31.1 & 31.3 Power & Chemical Piping Codes, incorporating all **ASTM** listed materials for the pressure retaining components: bodies, fasteners, and retainers. This standard-setting group of features include full **ASME** code compliance with regards to yield criteria, materials, and pressure/temperature ratings.

### STANDARD FEATURES

- Connections per ASME B16.5
- Standard fasteners per ASTM A354 and ASTM A194 complying with most piping specifications.
- Tempered borosilicate glass
- Units are machined and assembled in an ISO-9001 fully automated facility.
- Wetted components meet NACE MR-01-75 requirements
- Stainless steel engraved identification faceplate

### FULL-VIEW VISIBILITY

Pipeline view is maximized, in most cases with a diameter that is equal to the nominal pipe size, allowing 100% unobstructed process observation of gases, solids, solutions, and slurries.

### CAPACITY

Non-Rotor models offer minimized pressure drops with their non-restricting, smooth, full-bore construction.

### APPLICATIONS

Jacoby-Tarbox ASME flanged units are ideal for piping, process, and mechanical engineers that wish to maintain full ASME compliance within their pipelines. Refining, chemical, power, and gas pipeline industries are just a few areas of Jacoby Tarbox's successful code applications. O.E.M.'s specify this series when maximum reliability in harsh operating service is desired.

### INDICATOR OPTIONS:

**Plain:** These units are bi-directional and may be placed in any orientation. Used primarily in processes where spot indication is desired to detect presence of media, or to inspect color, clarity, turbidity, or other critical characteristics.

**Drip Tube:** Low, intermittent flows are easily detected with this uni-directional style in the horizontal or vertically downwards direction. The drip tube forces the process to collect on the lower lip of the 316 SS tube, allowing it to visibly drip downward.

**Flapper:** This unit employs a 316 SS hinged weighted flapper to indicate flow of media. The velocity of the flow is indicated by the position of the flapper. Uni-directional, these units are optimal for horizontal or vertically upward flows.

**Flutter:** The TFE flutter allows for easy uni-directional indication of low flowing gases and liquids. The thin, ribbon type flutter curls into the pipeline, vibrating at the slightest presence of gas or liquid movement. The flow of the media is indicated by the intensity of the fluttering against the window of the unit.

**Rotor:** The TFE rotor allows for easy bi-directional, multi-orientational flow indication. The speed of the rotor indicates the relative velocity of the media. Ideal for opaque liquids or heavy gases for an easily contrasting detection at far viewing distances. Extra durable stainless rotors are available as an option.



## INDICATOR OPTIONS



**Drip Type Models**  
F-608HPA-300  
F-608HPA-600



**Flapper Type Models**  
F-910HPA-300  
F-910HPA-600



**Flutter Type Models**  
F-910HPA-FLTR-300  
F-910HPA-FLTR-600



**Rotor Type Models**  
F-960HPA-300  
F-960HPA-600

## DIMENSIONAL DATA

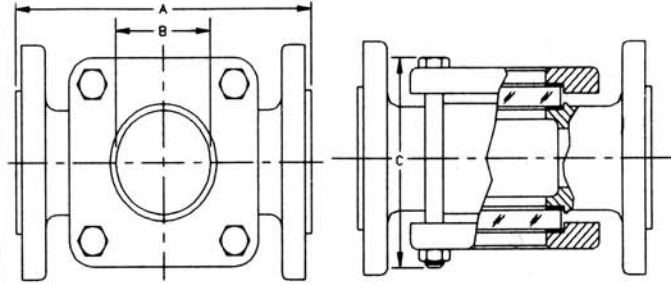
ALL 300 ASME CLASS MODELS									
NOM. SIZE		A		B		C		APPROX. WT.	
IN	DN	IN	mm	IN	mm	IN	mm	LBS.	KGS.
1/2	15	5.88	149	1.00	25	5.25	133	9	4.0
3/4	20	5.88	149	1.00	25	5.25	133	9	4.0
1	25	6.88	175	1.25	32	5.25	133	17	7.7
1-1/2	40	7.50	191	2.00	51	7.38	187	24	10.9
2	50	8.62	219	2.00	51	7.63	193	35	15.9
2-1/2	65	11.38	289	3.19	81	10.63	270	64	29.0
3	80	11.38	289	3.19	81	10.63	270	64	29.0
4	100	13.25	337	4.25	108	13.00	330	135	61.3
6	150	21.38	543	5.50	140	17.13	435	250	113.6
8	200	23.00	584	5.50	140	19.00	483	335	152.2

ALL 600 ASME CLASS MODELS									
NOM. SIZE		A		B		C		APPROX. WT.	
IN	DN	IN	mm	IN	mm	IN	mm	LBS.	KGS.
1/2	15	6.25	159	1.00	25	5.25	133	9	4.0
3/4	20	6.25	159	1.00	25	5.25	133	9	4.0
1	25	7.25	184	1.25	32	5.75	146	17	7.7
1-1/2	40	7.88	200	2.00	51	7.88	200	24	10.9
2	50	9.00	229	2.00	51	8.12	206	35	15.9
2-1/2	65	11.75	298	3.19	81	11.63	295	64	29.0
3	80	11.75	298	3.19	81	11.63	295	64	29.0
4	100	14.25	362	4.25	108	14.25	362	135	61.3
6	150	23.38	594	5.50	140	19.12	486	260	118.1
8	200	25.25	641	5.50	140	21.44	544	350	159.0

## PRESSURE/TEMPERATURE RATINGS

ASME CLASS PRESSURE/TEMPERATURE RATINGS					
TEMP °F	TEMP °C	CL 300 : psig (Barg)		CL 600 : psig (Barg)	
		STEEL	316 SS	STEEL	316SS
-20 TO	-29 TO 38	740 (50.8)	720 (49.4)	1480 (101.6)	1440 (98.9)
150	65	705 (48.4)	670 (46.0)	1415 (97.2)	1340 (92.0)
200	93	675 (46.3)	620 (42.6)	1350 (92.7)	1240 (85.2)
250	121	665 (45.6)	590 (40.5)	1335 (91.7)	1180 (81.0)
300	149	655 (44.9)	560 (38.5)	1315 (90.3)	1120 (76.9)
350	177	645 (44.3)	535 (36.7)	1290 (88.6)	1075 (73.8)
400	204	635 (43.6)	515 (35.4)	1270 (87.2)	1030 (70.7)
450	232	615 (42.2)	495 (34.0)	1235 (84.8)	990 (68.0)
500	260	600 (41.2)	480 (33.0)	1200 (82.4)	955 (65.6)

GASKET OPERATING TEMPERATURES		
MATERIAL	DEGREES F	DEGREES C
NEOPRENE	-20 TO 250	-29 TO 121
FIBER (NON-ASB)	-40 TO 550	-40 TO 287
VITON <sup>®</sup> A	-65 TO 350	-52 TO 177
SILICONE	-80 TO 450	-62 TO 232
GRAPHITE (OXY PRESENT)	-328 TO 932	-200 TO 500
GRAPHITE (STEAM)	-328 TO 1200	-200 TO 648
GRAPHITE (OXY FREE)	-328 TO 5432	-200 TO 3000
BUNA-N	-20 TO 250	-29 TO 121
EPDM	-20 TO 250	-29 TO 121
TFE/NEO	-20 TO 250	-29 TO 121
TFE/FIBER	-40 TO 450	-40 TO 232
TFE (GYLON <sup>®</sup> )	-325 TO 500	-198 TO 260



### Construction and Materials

**Body:** Steel: ASTM A216 WCB  
 316 SS: ASTM A351 CF8M  
 Optional Alloys: Hastelloy<sup>®</sup>, Inconel<sup>®</sup>, 304SS, Alloy 20, Monel<sup>®</sup>, "L" Grade SS, others upon request

**Retainer:** Steel: ASTM A516 Gr. 70  
 Options: ASTM A240 (316 SS)

**Fasteners:** Steel: ASTM A354-BD  
 ASTM A194-2H  
 Option: ASTM A193 B8M CL2 (316SS)  
 ASTM A194-8M (316 SS)  
*Special trim required above 800°F (Inquire at Factory)*

**Connections:** Steel: ASME B16.5 CL 300/600 RF  
 316 SS: ASME B16.5 CL 300/600 RF  
 Options: DIN PN 25/40 / JIS 20K/40K RTJ / T&G / 125-250 Ra / <125 Ra

**Windows:** Tempered Borosilicate  
 Options: Quartz (above 500°F)  
 Shields: UniShield<sup>®</sup> Window Protection, Mica, PFA Teflon<sup>®</sup>, Kel-F<sup>®</sup>

**Seal Gasket:** Neoprene - See Table for Options

**Cushion:** Compressed Fiber (Non-Asbestos)

### Options & Accessories:

3-Way Connections, Side FNPT Probe Taps, Steam Jackets, Epoxy and Offshore Coating Systems, Frost-Free Extensions, Spray Rings, Explosion-Proof Illuminators, Ball Type Indicator, External Impact Shields

**Linings:** Teflon<sup>®</sup>, Tefzel<sup>®</sup>, PVC, Kynar<sup>®</sup>, Rubber

### Safety Window Options (Full ANSI Rated)

- FM<sup>®</sup> Approved Dual Borosilicate
- UniGlas<sup>®</sup>
- Dual UniGlas<sup>®</sup>

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