JACOBY-TARBOX®

A Product Line of The Clark•Reliance Corporation

Over 80 years of Quality!

Full-View Sight Flow Indicator Threaded Bulls-Eye Models 150 Psig Nominal Rated

Section: T100
Bulletin: T100.10
Date: 8/03
Supersedes: T100.10 (00)

Jacoby-Tarbox's full line of threaded bulls-eye sight flows have been precisely engineered per the design criteria of ASME to provide a nominal 150 psig rated unit for flow observation and indication. Critical pathways containing gases, fluids, solids, or slurries can easily be monitored in Jacoby Tarbox's most economical bulls-eye sight flow. Available in a wide range of connections, these sight flows can be installed in a variety of process lines.

STANDARD FEATURES

- FNPT connections per ASME B2.1
- Independently threaded retainers machined from corrosion resistant alloys.
- Annealed borosilicate glass.
- Hex ends on bodies allow for easy installation.
- All ASTM listed body materials.
- Stainless steel engraved identification tag wired to unit.
- All units hydro-tested. See Hydrotest Schedule T100.35 for details.

FULL-VIEW VISIBILITY

Pipeline view is maximized, with a diameter that is up to 40% greater than the nominal pipe size, allowing 100% unobstructed process observation of your media.

CAPACITY

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

APPLICATONS

Jacoby-Tarbox 150 psig threaded units are ideal for piping and mechanical engineers that wish to economically view their process within their pipelines. Drain, lube, hydraulic, condensate, feed, and return lines are just a few areas of Jacoby-Tarbox's successful applications. Skid O.E.M.'s specify this series when easy maintenance, installation, and compactness 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.

• Model 100-S (NF) Plain

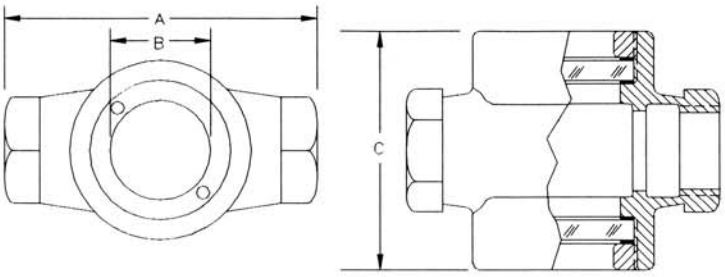
INDICATOR OPTIONS

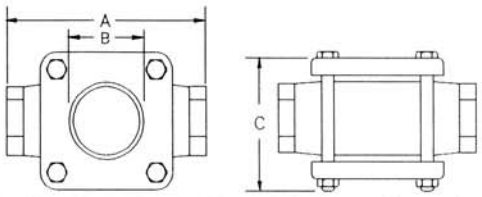
• Model 200-S Drip

• Model 100-S Flapper

• Model 100-S-FLTR Flutter

• Model 300-S Rotor





- Full ASME Code B31.1, B31.3, B16.5, compliant units are available for all sizes. Models change from "S" to "SFA". See drawing T400.16 for details.
- All Dual Window (Borosilicate), and Dual UniGlas® models constructed with Side Flange (SFA) type glass retainers.

DIMENSIONAL DATA

100-S, 100-S-FLTR, 100-S (NF), 200-S, 300-S									
NOM. SIZE		A		B		C		APPROX. WT.	
IN	DN	IN	mm	IN	mm	IN	mm	LBS.	KGS.
1/8	6	3.00	76	.84	21	2.00	51	1.5	.7
1/4	8	3.00	76	.84	21	2.00	51	1.5	.7
3/8	10	3.00	76	.84	21	2.00	51	1.5	.7
1/2	15	3.75	95	1.25	32	2.75	70	3.0	1.4
3/4	20	3.75	95	1.25	32	2.75	70	3.0	1.4
1	25	4.25	108	1.22	31	3.50	89	4	1.8
1-1/4	30	5.50	140	2.22	56	4.50	114	9	4.0
1-1/2	40	5.50	140	2.22	56	4.50	114	9	4.0
2	50	6.25	159	2.22	56			11	5.1

PRESSURE/TEMPERATURE RATINGS

NOMINAL PRESSURE/TEMP. RATINGS					
TEMP °F	TEMP °C	psig (Barg)			
		STEEL	316 SS	BRONZE	IRON
-20 TO 100	-29 TO 38	150 (10.3)	150 (10.3)	150 (10.3)	150 (10.3)
150	65	150 (10.3)	150 (10.3)	150 (10.3)	150 (10.3)
200	93	150 (10.3)	150 (10.3)	150 (10.3)	150 (10.3)
250	121	150 (10.3)	150 (10.3)	150 (10.3)	150 (10.3)
300	149	150 (10.3)	150 (10.3)	150 (10.3)	150 (10.3)
350	177	150 (10.3)	150 (10.3)	150 (10.3)	150 (10.3)
400	204	150 (10.3)	150 (10.3)	150 (10.3)	150 (10.3)
450	232	150 (10.3)	150 (10.3)	N/R	N/R
500	260	150 (10.3)	150 (10.3)	N/R	N/R

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® 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®)	-325 TO 500	-198 TO 260

Construction and Materials

Body:
Steel: ASTM A216 WCB
316 SS: ASTM A351 CF8M
Bronze: ASTM B61/B62
Iron: ASTM A126 Class B
Optional Alloys: Hastelloy®, Inconel®, 304 SS, Alloy 20, Monel®, "L" Grade SS, others upon request

Retainer:
Brass: ASTM B16 H02
Options: ASTM A276 (316 SS)

Retainer: (SFA Only)
Steel: ASTM A516 Gr. 70/A216-WCB
Options: ASTM A240 A351-CF8M (316 SS)

Fasteners: (SFA Only)
Steel: SAE A354-BD/A194-2H
Option: A193-B8M CL2/A194-8M

Connections:
Steel: ASME B2.1 FNPT
316 SS: ASME B2.1 FNPT
Bronze: ASME B2.1 FNPT
Iron: ASME B2.1 FNPT

Options:
Socket Weld: B16.11
Butt-Weld: B16.25
BSP: BS 21
Sil-Braze: Mil-F-1183

Windows:
Annealed Borosilicate
Options:
Tempered Borosilicate
Quartz (above 500°F)
Shields: UniShield® Window Protection (Std. on SFA), Mica, PFA Teflon®, Kel-F®

Seal Gasket: Neoprene - See Table for Options

Cushion: Compressed Fiber (Non-Asbestos)

Safety Window Options
- FM® Approved Dual Windows (Borosilicate)
- UniGlas®
- Dual UniGlas®

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