JACOBY·TARBOX®
A PRODUCT OF CLARK-RELIANCE

Full-View Sight Flow Indicator
Threaded Bulls-Eye Models

150 psig Nominal Rated & ASME Class 150

Section: T100
Bulletin: T100.10
Date: 12/2017
Supersedes: 08/2003

Jacoby-Tarbox's line of threaded bulls-eye sight flow indicators are engineered per the design criteria of ASME B31.1 & B31.3, Power and Process Piping Codes, incorporating the listed ASTM materials for all metals in the unit construction. Two families are available, one for nominally rated systems up to 150 PSIG and a second for full ASME rated systems.

"Out-of-the-box Compliance"

ASME B31.1 & B31.3
CRN – All Provinces
API 614
NACE MR0175 / ISO15156-1 MRO103*
PED (Specify when ordering for proper tagging)

*All Wetted Metals

Process View Maximized
View matches or exceeds pipe inside diameter, allowing 100% unobstructed process observation of liquids, slurries, gases and solids.

Minimal Pressure Drop
Non-rotor models have unrestricted flow as all internal openings are no smaller than the pipe's inside diameter.

Safely View process properties such as color, clarity, air entrainment, and interface.

Economically View drain, lube, hydraulic, condensate, food and return lines.

Standard Features:
- Single Window (1 per side / 2 total)
- Cast Body
- 100% Hydrotest (See schedule T100.35)

Window and Shield Options (SA Only):
- FM Approved dual window tempered borosilicate (2 per side / 4 total)
- UniShield® Window Protection - bonded PFA shielding for chemical resistance
- UniGlas® fused safety windows

*Over *35 years without a single failure – ask us for details*.

(ST Models Shown)	Plain 	Flapper 	Rotor 	Drip 	Gas Indicator 
150 psig	**100-ST(NF)**	**100-ST**	**300-ST**	**200-ST**	**100-ST-GI**
Class 150	**100-SA(NF)**	**100-SA**	**300-SA**	**200-SA**	**100-SA-GI**
Indicator	None	Weighted Flapper With 316 pin	PTFE Rotor With 316 pin	316 Drip Tube	Ultralight Weight PTFE Indicator With 316 Mount
Flow	Bi-Directional ⟷	Uni-Directional ←	Bi-Directional ⟷	Uni-Directional ←	Uni-Directional ←
Orientation	Horizontal or Vertical ✣	Horizontal or Vertical Upward ⊥	Horizontal or Vertical ✣	Vertical Downward or Horizontal T	Horizontal or Vertical Upward ⊥
Application	Observe presence or absence of fluid	Judge flow changes by flapper position	Indicates relative process velocity by rotation speed	Condensing gasses (drip) or partially full liquid lines	Gas flows. Low velocity liquid flow in full lines

16633 Foltz Parkway ● Strongsville, OH 44149 USA
Telephone: +1 440- 572-1500 ● Fax: +1 440-238-8828
www.clark-reliance.com ● jacobytarbox@clark-reliance.com ● clark-reliance.com/parts

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Part Number Matrix
150 psig & ASME Class 150 Threaded Bulls-Eye

"ST" 150 psig Models — Drawing
Up to 150 psig (10.3 Bar) T400.15

MODEL	CODE
100-ST(NF)	TAA-
100-ST	TAA-
200-ST	TAB-
300-ST	TAC-

"SA" Class 150 Models — Drawing
Up to 290 psig (20 Bar) T400.16

MODEL	CODE
100-SA(NF)	TAJ-
100-SA	TAJ-
200-SA	TBJ-
300-SA	TCJ-
100-SA-DW(NF)	TAJX-
100-SA-DW	TAJX-
200-SA-DW	TBJX-
300-SA-DW	TCJX-

CODES: Model | Size | Wetted Metal | Body | Indicator | Window | Gasket | Non-Wetted | Faceplate

Size	Code
1/4"	04
3/8"	06
1/2"	08
3/4"	10
1"	12
1 1/2"	16
2"	18

Faceplate	Code
Jacoby-Tarbox	1

Material Note:
"Window Material", "Trim Material", and for Quartz, "Gasket Material", must be coordinated.

" T " = Tempered
" Q " = Quartz
" U " = UniGlas®
*Only use number in code

ST Models

Trim Material	Code
Standard Brass retainer	1
Optional 316SS retainer	2

SA Models

Trim Material	Code	
Carbon Steel (T-Boro Window)	1	T
316 SS (T-Boro Window)	2	T
Carbon Steel (Quartz Window)	4	Q
316 SS (Quartz Window)	5	Q
Carbon Steel (UniGlas Window)	6	U
316 SS (UniGlas Window)	7	U

Note: All steel trim limited to 600F (277C)

Body Material	(Max Temp)	Code
Carbon Steel (WCB)	(1000F/537C)	C
316 SS (CF8M)	(1500F/815C)	S
Bronze (B61)	(450F/232C)	B
316L SS (CF3M)	(1500F/815C)	6L
Hastelloy® C (CW12MW)	(1300F/704C)	HC
Alloy 20 (CN7M)	(600F/577C)	A
Monel® (M-35-1)	(900F/482C)	M
Duplex SS	Consult Factory for Code	

Consult factory for special requirements.

Gasket Material	(Max Temp)	Code	
Neoprene	(250F/121C)	1	
Gylon® 3545	(500F/260C)	2	
Fiber (IFG® 5500)	(550F/287C)	3	
Graphite	(>800F/426C)	4	Q
Viton	(350F/177C)	5	

Body Machining	Code
Standard NPT	1
Optional Buttweld End	2
Optional Socket Weld End	3

ST Models

Window Material	(Max Temp)	Code
Annealed Boro Glass	(450F/232C)	1

SA Models

Window Material	(Max Temp)	Code	
Tempered Boro Glass	(500F/260C)	1	T
T-Boro with UniShield®	(500F/260C)	2	T
Quartz Glass	(2012F/1100C)	4	Q
UniGlas® w/ Steel Ring	(600F/315C)	5	U
UniGlas® w/ Hast C Ring	(600F/315C)	6	U
UniGlas® w/ Duplex SS Ring	(532F/277C)	9	U

Indicator Choices for 100's & 200's	Code
No Flapper = Plain (100 only)	0
316SS Flapper (100) / 316 Drip (200)	1
PTFE Flutter (100)	2
Gas Indicator	G

Indicator Choices for 300's	Code
Standard PTFE Rotor	1
316SS Rotor - Note: ONLY use when PTFE is not comapatible with process or temperature exceeds 500F (260C)	2

Rating Notes:
Design Temperature: Unit Temperature rating based on the lowest "Max Temperature" of selected components (ie. body, glass, gaskets)
Design Pressure: Actual Unit Pressure rating based on body material as defined by ASME B16.5 material group.

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