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 |

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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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