

Jacoby-Tarbox's Full ASME rated line of high pressure flanged 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.



“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 tempered borosilicate (1 per side / 2 total)
- Body with integrally cast ASME flanges (CL300/600) up to 4" (DN100)
- 100% Hydrotest (See schedule T100.35)

Window and Shield Options:

- 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.

| | Plain  | Flapper  | Rotor  | Drip  | Gas Indicator  |
|--------------------|--|---|--|---|---|
| Class 300 | F-910HPA-300 (NF) | F-910HPA-300 | F-960HPA-300 | F-608HPA-300 | F-910HPA-300-GI |
| Class 600 | F-910HPA-600 (NF) | F-910HPA-600 | F-960HPA-600 | F-608HPA-600 | F-910HPA-600-GI |
| Class 900 | F-910HPA-900 (NF) | F-910HPA-900 | F-960HPA-900 | F-608HPA-900 | F-910HPA-900-GI |
| Class 1500 | F-910HPA-1500 (NF) | F-910HPA-1500 | F-960HPA-1500 | F-608HPA-1500 | F-910HPA-1500-GI |
| Indicator | None | 316 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  | Horizontal or Vertical Upward  |
| Application | Observe presence or absence of fluid | 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 |

Part Number Matrix High Pressure Flanged Sight Flow Indicators

CLASS 300 MODELS Drawing
Up 750 psig (51.7 Bar) T400.117

| Model | Code |
|---------------------|------|
| F-910HPA-300(NF) | TZH- |
| F-910HPA-300 | TZH- |
| F-608HPA-300 | TZI- |
| F-960HPA-300 | TZJ- |
| F-910HPA-300-DW(NF) | TZK- |
| F-910HPA-300-DW | TZK- |
| F-608HPA-300-DW | TZL- |
| F-960HPA-300-DW | TZM- |

CLASS 600 MODELS Drawing
Up 1500 psig (103 Bar) T400.118

| Model | Code |
|---------------------|------|
| F-910HPA-600(NF) | TZN- |
| F-910HPA-600 | TZN- |
| F-608HPA-600 | TZO- |
| F-960HPA-600 | TZP- |
| F-910HPA-600-DW(NF) | TZQ- |
| F-910HPA-600-DW | TZQ- |
| F-608HPA-600-DW | TZR- |
| F-960HPA-600-DW | TZS- |

CLASS 900 MODELS Drawing
Up 2250 psig (155 Bar) T400.119

| Model | Code |
|---------------------|-------|
| F-910HPA-900(NF) | TZN9- |
| F-910HPA-900 | TZN9- |
| F-608HPA-900 | TZO9- |
| F-960HPA-900 | TZP9- |
| F-910HPA-900-DW(NF) | TZQ9- |
| F-910HPA-900-DW | TZQ9- |
| F-608HPA-900-DW | TZR9- |
| F-960HPA-900-DW | TZS9- |

CLASS 1500 MODELS Drawing
Up 3750 psig (258 Bar) T400.120

| Model | Code |
|----------------------|-------|
| F-910HPA-1500(NF) | TZN5- |
| F-910HPA-1500 | TZN5- |
| F-608HPA-1500 | TZO5- |
| F-960HPA-1500 | TZP5- |
| F-910HPA-1500-DW(NF) | TZQ5- |
| F-910HPA-1500-DW | TZQ5- |
| F-608HPA-1500-DW | TZR5- |
| F-960HPA-1500-DW | TZS5- |

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

| Size | Code | Size | Code |
|--------|------|--------|------|
| 1/2" | 08 | 2-1/2" | 20 |
| 3/4" | 10 | 3" | 22 |
| 1" | 12 | 4" | 24 |
| 1-1/2" | 16 | 6" | 28 |
| 2" | 18 | 8" | 30 |

Note: 2-1/2" to 8" CL300 & 600 only

| 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 (Consult Factory) | (1000F/537C) | CFFC |

Consult factory for special requirements.

| Body Machining | Code |
|-----------------------|------|
| Standard ASME Flange | 1 |
| PFA Lined Body | 2 |
| Body w/ 1/2" Coupling | 3 |
| Body w/ 3/4" Coupling | 4 |
| Body w/ 1" Coupling | 5 |

| Indicator Choices for .910's & 608's | Code |
|--------------------------------------|------|
| No Flapper = Plain (910 only) | 0 |
| 316SS Flapper (910) / 316 Drip (608) | 1 |
| PTFE Flutter (910) / PTFE Drip (608) | 2 |

Note: PTFE lined indicator required for PFA lined units.

| Indicator Choices for 960's | Code |
|-----------------------------|------|
| Standard PTFE Rotor | 1 |
| 316SS Rotor - (See Note) | 2 |

Note: ONLY use when PTFE is not compatible with process or temperature exceeds 500F (260C)

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

" T " = Tempered
" Q " = Quartz
" U " = UniGlas®

| Faceplate | Code |
|---------------|------|
| Jacoby-Tarbox | 1 |

| 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)

Gasket choices for:

ALL Class 300 (CL3) & Class 600 (CL6)

| 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 |

Gasket choices for:

ALL Class 900 (CL9) & Class 1500 (CL15)

| Gasket Material | (Max Temp) | Code |
|--------------------------|--------------|------|
| Neoprene - Not Available | | X |
| Gylon® 3545 | (500F/260C) | 2 |
| Fiber (IFG® 5500) | (550F/287C) | 3 |
| Graphite | (>800F/426C) | 4 Q |
| Viton - Not Available | | X |

| 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 |

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.