

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

Efficiency Maximized

Save space – Combine elbow and sight flow indicator

Save time – OEM only has to mount sight flow

Save cost – Fewer flanges, fewer welds, less weight

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

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



“Out-of-the-box Compliance”

ASME B31.1 & B31.3

CRN – All Provinces

API 614

NACE MR0175 / ISO15156 & MR0103*

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.

Standard Features:

- Single Window tempered borosilicate (1 per side / 2 total)
- Body with integrally cast ASME flanges up to 6” (DN 150)
- 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		Drip	
Class 150	90-LR		90-LR-D	
Class 300	90-LR-3		90-LR-D-3	
Indicator	None		316 Drip Tube	
Flow	Bi-Directional	↔	Uni-Directional	←
Orientation	Horizontal or Vertical	⊕	Downward	↓
Application	Observe presence or absence of fluid		Condensing gasses (drip) or partially full liquid lines	

Optional Top Connection: (threaded or flanged)
Mount instruments -
pressure gauges, thermometers, flow switches



Drawing T400.107



Single Window Shown

MODEL	CODE
90 LR	TQZ-
90 LR-D	TQZ-
90 LR-300	TRZ-
90 LR-300-D	TRZ-
90 LR-DW	TQZX-
90 LR-D-DW	TQZX-
90 LR-300-DW	TRZX-
90 LR-D-300-DW	TRZX-

C O D E S	Model	Size	Wetted Metal	Body	Indicator	Window	Gasket	Non-Wetted	Faceplate

Size	Code	Size	Code
1"	12	3"	22
1 1/2"	16	4"	24
2"	18	6"	28

Faceplate	Code
Jacoby-Tarbox	1

Body Material	(Max Temp)	Code
Carbon Steel (WCB)	(1000F/537C)	C
316 SS (CF8M)	(1500F/815C)	S
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.

Body Machining	Code
Standard ASME Flange	1
PFA Lined Body	2
Body w/ 1/2" Coupling	C2
Body w/ 3/4" Coupling	C3
Body w/ 1" Coupling	C1
Body w/ 1/2" Vent (MNPT)	V2
Body w/ 3/4" Vent (MNPT)	V3
Body w/ 1" Vent (MNPT)	V1
Body w/ 1/2" Flanged Vent	F2
Body w/ 3/4" Flanged Vent	F3
Body w/ 1" Flanged Vent	F1

Note any special requirements or details not listed above.

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

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

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

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 - 90's & 90-D's	Code
Plain (90-LR Only)	0
316 Drip (90 LR-D)	1
PTFE Drip (90 LR-D)	2

Note: PTFE Indicators required for PFA Lined body, if specified

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.