JACOBY·TARBOX®
A PRODUCT OF CLARK-RELIANCE

90° Specialty Flanged Sight Flow Indicators

ASME Class 150 & 300

Section: T100
Bulletin: T100.90
Date: 04/16/17
Supersedes: NEW

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 8" (DN 200)
- 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	✥	Vertical Downward or Horizontal	⊤
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

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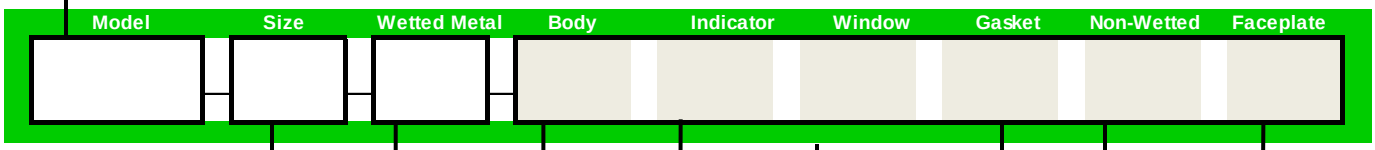
Part Number Matrix
90° Long-Radius Units

MODEL	CODE
90 LR	TQZ-
90 LR-D	TRZ-
90 LR-300	TSZ-
90 LR-300-D	TTZ-
90 LR-DW	TQZX-
90 LR-D-DW	TRZX-
90 LR-300-DW	TSZX-
90 LR-D-300-DW	TTZX-



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

Faceplate	Code
Jacoby-Tarbox	**1**

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

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

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	Code
Carbon Steel (WCB)	C
316 SS (CF8M)	S
316L SS (CF3M)	6L
Hastelloy C (CW12MW)	HC
Alloy 20 (CN7M)	A
Duplex (Consult Factory)	"U_"
Monel (M-35-1)	M

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 (1)	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.

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.

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