

BLISS
AMERICAS

Instrument Chambers



Instrument Chambers

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INSTRUMENT CHAMBER SELECTION GUIDE BAC 92 SERIES

Selection		Suffix Codes																Description
A	Instrument Type	G																GWR
		V																Vertical Level Switch
		H																Horizontal Level Switch
B	Mounting Style	SS																Side-Side
		SB																Side-Bottom
		XX																Special (Specify)
C	Chamber Material	CS																A106 Gr. B
		LF																A333
		S2																SS-316 / 316 L
		S8																Inconel 825
		XX																Special (Specify)
D	Instrument Chamber Size			2														2"
				3														3"
				4														4"
				X														Special (Specify)
					A													Sch. 10
E	Instrument Chamber Pipe Schedule				B													Sch. 40
					C													Sch. 80
					D													Sch. 160
					X													Special (Specify)
F	Instrument Connection Size (Flanged)				2													2"
					3													3"
					4													4"
					X													Special (Specify)
G	Instrument Connection Rating (Flanged)					A												150#
						B												300#
						C												600#
						D												900#
						E												1500#
						F												2500#
						X												Special (Specify)
H	Instrument Connection Finish (Flanged)					RF												RF
						WN												W RF
						SJ												SORTJ
						WJ												WNRTJ
						XX												Special (Specify)
I	Chamber Bottom Style					D												Dished End
						B												Bottom cover
						X												Special
J	Process Connection Size								1									1/2"
									2									3/4"
									3									1"
									4									1.5"
									5									2"
									6									2.5"
									7									3"
									8									4"
									X									Special (Specify)
K	Process Connection Rating								A									150#
									B									300#
									C									600#
									D									900#
									E									1500#
									F									2500#
									T									NPT(F) - 3000#
									X									Special (Specify)
L	Process Connection Type								TH									Threaded
									RF									RF
									WN									W RF
									SJ									SORTJ
									WJ									WNRTJ
									XX									Special (Specify)

INSTRUMENT CHAMBER SELECTION GUIDE BAC 92 SERIES

Selection		Suffix Codes																Description
M	Vent Connection																PL	Plugged
																	FL	Flanged
																	FV	Flanged with Valve
																	SV	Screwed with Valve
																	XX	Special
N	Vent Connection Size																1	1/2"
																	2	3/4"
																	3	1"
																	X	Special (Specify)
O	Vent Connection Rating																A	150#
																	B	300#
																	C	600#
																	D	900#
																	E	1500#
																	F	2500#
																	T	NPT(F) - 3000#
																	X	Special (Specify)
P	Vent Connection Type																TH	Threaded
																	RF	RF
																	WN	W RF
																	SJ	SORTJ
																	WJ	WNRTJ
																	XX	Special (Specify)
Q	Drain Connection																PL	Plugged
																	FL	Flanged
																	FV	Flanged with Valve
																	SV	Screwed with Valve
																	XX	Special
R	Drain Connection Size																1	1/2"
																	2	3/4"
																	3	1"
																	X	Special (Specify)
S	Drain Connection Rating																A	150#
																	B	300#
																	C	600#
																	D	900#
																	E	1500#
																	F	2500#
																	T	NPT(F) - 3000#
																	X	Special (Specify)
T	Drain Connection Type																TH	Threaded
																	RF	RF
																	WN	WNRF
																	SJ	SORTJ
																	WJ	WNRTJ
																	XX	Special (Specify)
U	Mounting Accessories																OO	No Accessories
																	SN	Studs & Nuts
																	GS	Gasket Spiral Wound
																	GF	Gasket Flat (Gra.)
																	GX	Gasket Special
V	C to C or C to B Distance																XXXX	Specify with unit

Note: Other information as per data sheet



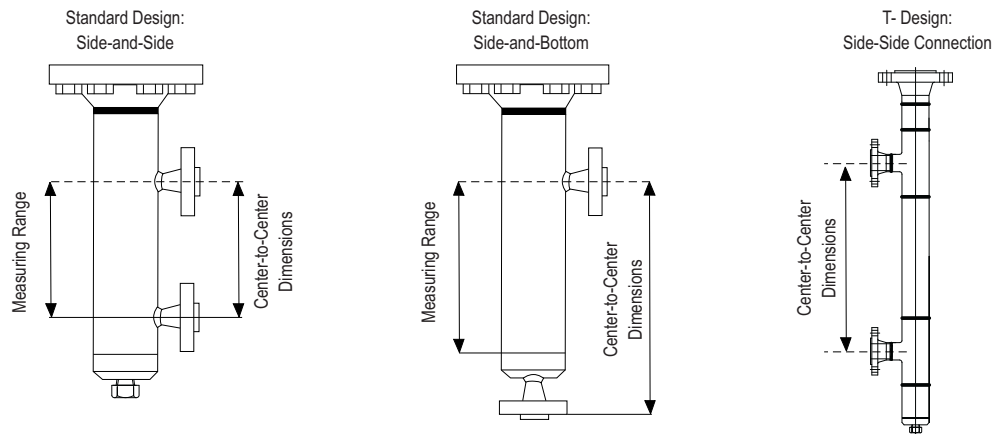
INSTRUMENT CHAMBERS



Introduction to Bliss Instrument Chambers

Also known as a cage, it houses the liquid process being measured and instrument's sensing element. There are many types of process connections on the body of the chamber which allow mounting to the vessel.

Figure below show the most common configurations.



This configuration allows an instrument to be isolated with valves for maintenance without disturbing plant operation. It is also useful for in-tank restrictions that do not allow mounting of the instrument in a vessel. This approach offers many advantages when solving application challenges. The instrument is mounted on top of the chamber with the flanged or threaded instrument connection. A thread version is available for the vertical float level switch.

When ordering, specify the center-to-center dimension in feet and inches, or meters and millimeters.

INSTRUMENT CHAMBERS**BLISS ANAND Instrument Chambers**

- * Allows external mounting of process level instrumentation.
- * Ideal for critical area and general purpose applications.
- * Power, Petro-Chemical, Refining, Oil & Gas, Chemical and Process Steam.
- * 38 years of experience in designing and manufacturing chambers in accordance with international codes.
- * Variety of process connections and optional drain and vent connections.
- * Used by major industries worldwide.
- * Enables live maintenance.
- * Designed to ASME B31.3.
- * Pressure Equipment Directive (PED) complaint.
- * Custom designs service available.
- * For use in applications up to ASME B16.5 Class 2500 and EN1092 PN250.
- * Available in carbon steel, stainless steel and other alloys.

Chamber Design

The Bliss instrument chamber is designed to the ASME B31.3 standard, and is Pressure Equipment Directive (PED) complaint. Weld neck flanges and full penetration welds in accordance with EN ISO 15614-1:2004 and ASME Boiler and pressure Vessel Code Section IX are used throughout. All welders are qualified to EN 287-1:2004 and ASME Boiler and pressure Vessel code section IX. All construction materials have full traceability in accordance with the EN 10204 type 3.1 certificates. Every chamber is hydro-tested as standard. There are two designs available: the Standard Design and T-piece Design.

Standard Design

With the standard design, the process connections are welded directly onto the chamber body. This keeps the number of welds to a minimum for increased Safety.

Pressure ratings up to and including ASME B16.5 Class 2500.

T-Piece Design

T-Piece design is used, Unequal T's are used so the larger process connections can fit on the smaller chamber body.

Pressure ratings of up to and including ASME B16.5 Class 2500.

Drain and Vent (Optional)

A drain allows liquid to be drained away and allows maintenance of the instrument. It is always specified for a side-and-side chamber. A vent is optional and allows gas in the upper zone above the liquid to be vented off. Both the drain and vent are available as threaded or flanged in a variety of sizes. Special types are also available upon request.



Special Requirements & Testing

- H2 Compliance
- PMI
- D.P. Test
- Radiography
- Ultra Sonic
- Approved Weld Procedures & Welder Certifications
- Nace Compliance
- HIC Compliance
- SP. Alloy Weldings (Alloy 825, StSt, Monel, LF2 etc.)
- Other testing available as required

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BLISS ANAND: *The spirit to walk an extra mile*

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