BLISS AMERICAS

Instrument Chambers





Instrument Chambers

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INSTRUMENT CHAMBERS



Introduction to Bliss Instrument Chambers

Also known as a cage, it houses the liquid process being measured and instrument's sensing elentheme 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 vebiel. approach offers many advantages when solving application challent designstrument is mounted on top of the chamber with the flanged or threaded instrument connection 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 CHAMBER SELECTION GUIDE BAC 92 SERIES

	Selection					Su	ffix	Cod	es										Description
М	Vent Connectio								PL										Plugged
									FL										Flanged
									FV										Flanged with Valve
									SV										Screwed with Valve
									XX										Special
N	Vent Connection Size									Ι									1/2"
										2									3/4"
										3									1"
										Х									Special (Specify)
0	Vent Connection Rating										A								150#
											В								300#
											С								600#
											D								900#
											Е								1500#
											F								2500#
											т								NPT(F) - 3000#
											х								Special (Specify)
Р	Vent Connection Type											TH							Threaded
												RF							RF
												WN							WNRF
												SI							SORTI
												Ŵ							WNRTI
												XX							Special (Specify)
Q	Drain Connection												PL						Plugged
													FL						Flanged
													FV						Flanged with Valve
													SV						Screwed with Valve
													XX						Special
R	Drain Connection Size													Ι					1/2"
														2					3/4"
														3					1"
														Х					Special (Specify)
S	Drain Connection Rating														А				150#
															В				300#
															С				600#
															D				900#
															Е				1500#
															F				2500#
															Т				NPT(F) - 3000#
															Х				Special (Specify)
Т	Drain Connection Type															TH			Threaded
																RF			RF
																WN			WNRF
																SJ			SORTJ
																WJ			WNRTJ
																XX			Special (Specify)
U	Mounting Accessories																00		No Accessories
																	SN		Studs & Nuts
																	GS		Gasket Spiral Wound
																	GF		Gasket Flat (Gra.)
																	GX		Gasket Special
۷	C to C or C to B Distance																	XXXX	Specify with unit

INSTRUMEN CHAMBERS



BLISS 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 tASME B31.3 standard, and is Pressure Equipment Directive (PED) complaintW eld neck flanges and full penetration welds in accordance with EN ISO 15614-1:2004 aAGME Boiler and pressure/essel Code Section IX are used throughoutAll welders are qualified to EN 287-1:2004 and SME Boiler and pressure/essel code section IXAII construction materials have full traceability in accordance with the EN 10204 type 3.1 certificates. Every chamber is hydro-tested as standaTdere are two designs available: the Standard Design and prese Design.

Standard Design

With the standard design, the process connections are welded directly onto the chamberybold is keeps the number of welds to a minimum for increased Safet

Pressure ratings up to and includinASME B16.5 Class 2500.

T-Piece Design

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

Pressure ratings of up to and includinAgSME 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 chambed vent is optional and allows gas in the upper zone above the liquid to be vent fd Both the drain and vent are available as threaded or flanged in a variety of sizes. Special types are also available upon request.

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Special Requirements & Testing

- H2 Compliance
- PMI
- D.P. Test
- Radiography
- Ultra Sonic
- ApprovedW eld Procedures &W elder Certifications
- Nace Compliance
- HIC Compliance
- SP. Alloy W eldings (Alloy 825 StSt, Monel, LF2 etc.)
- Other testing available as required

BLISS AMERICAS

Manufacturing Locations:

UNITED STATES OF AMERICA

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GLOBAL PRESENCE

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