

WIKA level chambers

Model WLC

WIKA data sheet WLC

Applications

WLC Series level chambers are suitable for most industrial and commercial applications including:

- Chemical and petrochemical industries
- Energy and power plant technology
- Feed water heaters and boilers
- Food and beverage
- Gas plants
- Oil and gas industries
- Offshore exploration and drilling
- Pipeline compressor applications
- Pulp and paper
- Pharmaceutical

Special features

- Pressures from full vacuum to 5,000 psi
- Connection dimensions range from 6" to 20' standard, more if necessary as special
- WLC level chambers are suitable for magnetostrictive transmitters, reed chain transmitters and switches, guided wave and non-contact radar transmitters, capacitance, DP and many more.
- Can be paired with WMI for redundancy



WIKA level chamber, model WLC

Specifications

Materials of construction

Carbon steel, 304/L, 316/L, 317, 321, 347 SS, Hastelloy B or C, Alloy 20, Inconel 625, Monel, 254 SMO

Process connections

ANSI flanges, male or female threaded, O-let, weld ends

Connection sizes

From 1/2" to 8" standard

Available outlets

Extruded, O-lets, saddled or welded T's

Vent and drain options

Flat caps, dome caps, weld neck or slip-on flanges, weld ends, male or female threaded, reducing flanges, valves per specification

Additional options

High temperature insulation, steam tracing, electrical heat tracing, cryogenic insulation, reinforced flange supports, liquid gas chamber construction

WLC details

Chamber / flange ratings

From 150# to 2500#

Unit of measure

Imperial or Metric

Center to center length

6" to 20' or more

Transmitter connection

Weld neck flange w/o mating flange, slip-on flange w/o mating flange, flat cap w/NPT connection, weld neck mating flange w/NPT connection, or slip-on flange w/NPT connection.

Chamber material

Carbon steel, 304/304L stainless, 316/316L stainless, 321 stainless, 317 stainless, 347 stainless, Monel, Hastelloy B or C, Alloy 20 or Inconel 625 and more.

Chamber size

Ranges from 1" to 6" or more

Side connection type

Flange:

Weld neck w/raised face
Slip on w/raised face
Weld neck RTJ
Lap joint

O-let:

Soc-o-let
Thread-o-let
Weld-o-let

Various:

Threaded coupling
Socket weld coupling
Socket weld nipple
Threaded nipple
Butt weld connection
Other (specify)

Dual chamber options:

w/90° lower connection
w/drain
w/valves

Side connection size

Ranges from no connection, 1/2" to 8" or more

Outlet type

Extruded, O-let, saddled or welded-T

Vent connection

Hex plugged vent, side of chamber above upper process connection or no vent

Vent or drain connections

Flat or dome cap options:

NPT Hex Plug
Threaded coupling
Socket weld coupling
Nipple for butt welding
Threaded male nipple
Welded flange
Valve

Weld neck or slip-on flange options:

No mating flange for direct process connection
Mating flange with NPT hex plug
Mating flange with socket weld coupling
Mating flange with nipple for butt welding
Mating flange with threaded male nipple
Mating flange with welded flange
Mating flange with valve

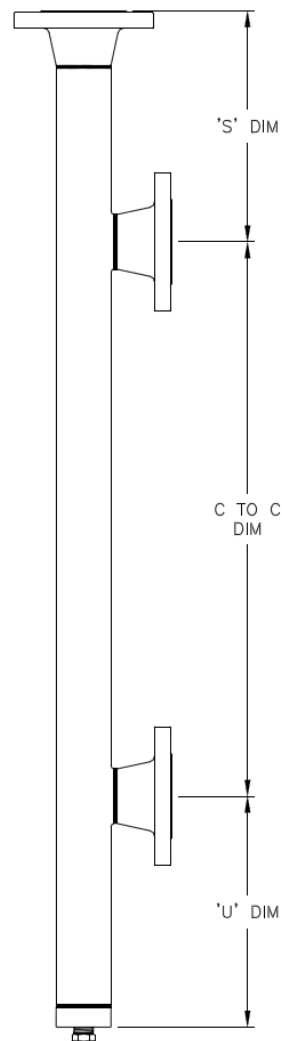
Other connections options can be engineered per application

Vent and drain size

From 1/2" to 8" or more

Options

Chamber insulations or chamber and flange insulations from -300° to 999°. Steam tracing, heat tracing and gussets for flange support also available



WIKA level chamber

The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.



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Appendix

Type code - WLC

1	Chamber Rating			
	150	150#	900	900#
	300	300#	15C	1500#
	600	600#	25C	2500#
2	Unit of Measure			
	I	Imperial	M	Metric
3	Center to Center Length			
	XXXX	Dimension in inches or millimeters. Example: 44" = 0044		
4	Device Connection			
	WO	Weld neck flange, no mating flange	SA	Slip on flange, mating flange w/NPT connection
	FA	Flat cap w/NPT connection	SO	Slip on flange, no mating flange
	WA	Weld neck flange w/NPT connection		
5	Chamber Material			
	CSTL	Carbon steel	321S	321 Stainless steel
	304M	304/304L Stainless steel w/matching flange material	317S	317 Stainless steel
	304C	304/304L Stainless steel w/matching carbon steel flange material	347S	347 Stainless steel
	316M	316/316L Stainless steel w/matching flange material	MON4	Monel 400
	316C	316/316L Stainless steel w/matching flange material		
			HASC	Hastelloy C
			HASB	Hastelloy B
			ALL2	Alloy 20
			A254	Alloy 254
			INC6	Inconel 625
6	Chamber Size			
	10	1 inch	30	3 inches
	15	1.5 inches	40	4 inches
	20	2 inches	60	6 inches
	25	2.5 inches	OT	Other, specify in description
7	Side Connection Type (Qty.) -Choose one code			
	Flange Options: Specify Qty. in ____		O-let Options: Specify Qty. in ____	Various Options: Specify Qty. in ____
	WR_	Weld neck raised face	SL_	Soc-o-let
	SR_	Slip on raised face	TL_	Thread-o-let
	WJ_	Weld neck RTJ	WL_	Weld-o-let
	LJ_	Lap joint		
			TC_	Threaded coupling
			SC_	Socket weld coupling
			SN_	Socket weld nipple
			TN_	Threaded nipple
			BW_	Butt weld connection
			OT_	Other, specify in description
			D9_	Dual chamber w/90° lower connection
			DD_	Dual chamber w/drain
			DV_	Dual chamber w/valves
8	Side Connection Size			
	05	.5 inch	20	2 inches
	75	.75 inches	25	2.5 inches
	10	1 inch	30	3 inches
	15	1.5 inches	40	4 inches
			60	6 inches
			80	8 inches
			OT	Other, specify in description
9	Outlet Type			
	E	Extruded		
	S	Saddled		
	W	O-let		
	T	Welded-T		
10	Vent Connection			
	PV	Hex plugged vent, side of chamber above upper process connection		
	NV	No Vent		

11 Drain Connection -Choose one code					
Flat cap (FC) options:		Dome cap (DC) options:		Weld neck flange (WNF) options:	
FP	FC, with drain, plug	DP	DC, with drain, plug	WP	WNF, drain, plug in mating flange
FT	FC, threaded coupling	DT	DC, threaded coupling	WT	Threaded coupling on mating flange to WNF
FC	FC, socket-weld coupling	DC	DC, socket-weld coupling	WC	Socket-weld fitting on mating flange to WNF
FS	FC, nipple for socket welding	DS	DC, nipple for socket welding	WS	Nipple for socket-welding on mating flange for WNF
FW	FC, nipple for butt welding	DW	DC, nipple for butt welding	WW	Nipple for butt-welding on mating flange for WNF
FN	FC, threaded male nipple	DN	DC, threaded male nipple	WN	Threaded male nipple on mating flange for WNF
FF	FC, welded flange	DF	DC, welded flange	WF	WNF with mating reducing flange
FV	FC, with valve	DV	DC, with valve	WV	WNF with mating flange and valve
FB	FC, No vent or drain	DB	DC, No vent or drain	WO	WNF no mating flange
Slip-on flange (SOF) options:			Other, specify in description		
SP	SOF, drain, plug in mating flange		OT		
ST	Threaded coupling on mating flange to SOF				
SC	Socket-weld fitting on mating flange to SOF				
SS	Nipple for socket-welding on mating flange for SOF				
SW	Nipple for butt-welding on mating flange for SOF				
SN	Threaded male nipple on mating flange for SOF				
SF	SOF with mating reducing flange				
SV	SOF with mating flange and valve				
SO	SOF no mating flange				
12 Vent and Drain Size					
05	.5 inch V/D Connection	20	2 inches	60	6 inches
75	.75 inch V/D Connection	25	2.5 inches	80	8 inches
10	1 inch	30	3 inches	OT	Other, specify in description or for D9 (Dual chamber with 90° connection option)
15	1.5 inches	40	4 inches		
13 Options					
T1C	Chamber insulation for temps between 250° and 499° F			F12	Cryogenic insulation for temps down to -200° F
T1F	Chamber and flange insulation for temps between 250° and 499° F			F13	Cryogenic insulation for temps down to -300° F
T2C	Chamber insulation for temps between 500° and 999° F			STT	Steam tracing
T2F	Chamber and flange insulation for temps between 500° and 900° F			HTT	Heat tracing
F11	Cryogenic insulation for temps down to -100° F			FLS	Gussets for flange support

Ordering example

1	-	2	-	3	-	4	-	5	-	6	-	7	-	8	-	9	-	10	-	11	-	12	-	13
Chamber Rating		Unit of Measure		Center to Center Length		Transmitter Connection		Chamber Material		Chamber Size		Side Connection Type (Qty.) -Choose one code		Side Connection Size		Outlet type		Vent Connection		Drain Connection		Vent and Drain Size		Options