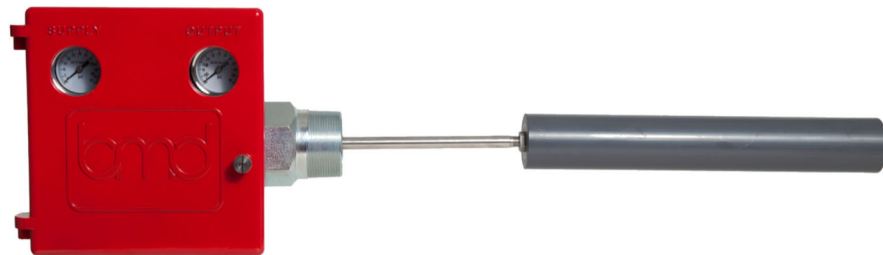


LC10 Level Controller

The LC10 is a rugged, displacer operated level controller that is ideal for use on scrubbers, separators, heater treaters or anywhere else level control is needed. Its industry-proven force balance design allows for control of gas/liquid as well as liquid/liquid interfaces.

The LC10 can be mounted on the left or right hand side or from the back and can be set up for direct or reverse acting. Both the mounting and action are field reversible. Its available with an easily replaceable snap or throttling pilot for pneumatic control. The snap pilot is available with a soft seat option. SPDT and DPDT switches are available for electric control.

A wide variety of sizes and end connections are available, as well as many different displacer arm lengths to fit any vessel configuration. A NACE option is available for sour service. A sealed case version is also available.



Specifications

Sizes:

Threaded: 1 1/2" and 2"
 Flanged: 2" to 8"
 Union: 4" and 5"

Pressure Rating:

Threaded: 6000 psi
 Flanged: Up to ANSI 2500 Class
 Union: 1500 psi

Temperature Range:

-50° F to 400° F (Varies by Material Selections)

Pilot Connections: 1/4" NPT

Pilot Max Pressure: Limited by Gauges

Electric Switch Ratings:

SPDT: 15 A @ 125, 250, 480 VAC
 DPDT: 10 A @ 125 VAC

Materials:

Body: A105, LF2 (Low Temp Option), SST
 Body Trim: 303 Stainless and 316 Stainless (Optional)
 Pilot Body: Aluminum
 Pilot Trim: 303 Stainless
 Case: Aluminum
 Torque Bar: 303 Stainless
 Displacer: PVC (Standard), Acrylic, Stainless

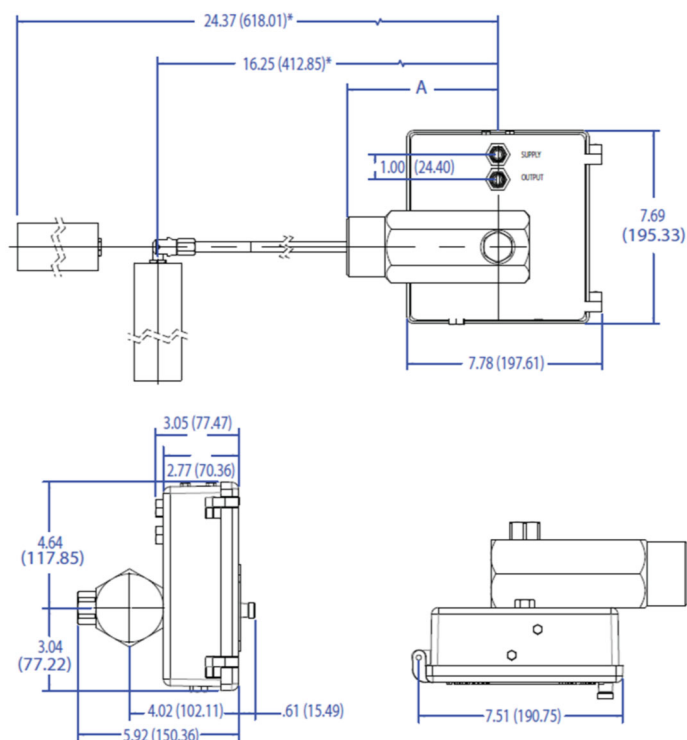
Minimum Fluid Specific Gravities		
Displacer Orientation	Snap Pilot	Throttle Pilot
Vertical	0.21	0.42
Horizontal	0.28	0.56

Temperature Limits for Displacer and Seal Combinations						
Displacers	PVC		Acrylic		Stainless Steel	
Seals	°F	°C	°F	°C	°F	°C
Buna	-20 to 140	-29 to 60	-20 to 180	-29 to 82	-20 to 225	-29 to 107
Low Temp Buna	-50 to 140	-46 to 60	-50 to 180	-46 to 82	-50 to 225	-46 to 107
Viton®	-20 to 140	-29 to 60	-20 to 200	-29 to 93	-20 to 400	-29 to 204

Dimensions

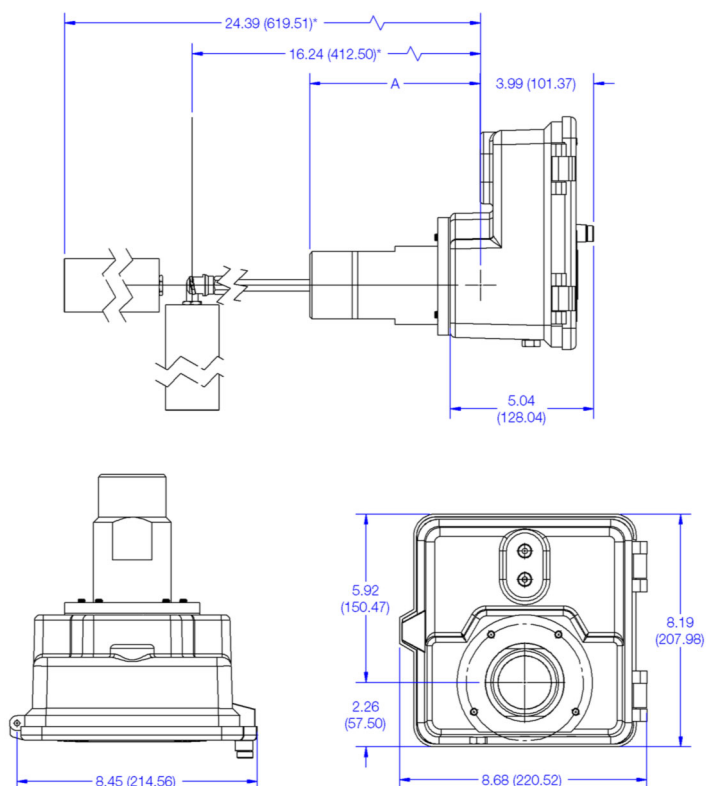
Measurements in inches (mm).

Left/Right Hand Mounted

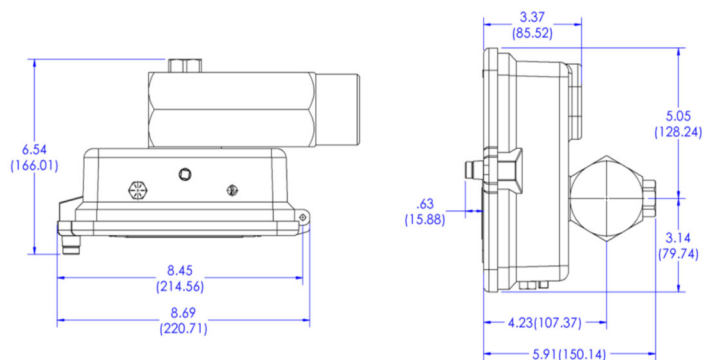


* Dimensions for standard sizes.

Back Mounted



Sealed Case



Dimension A								
Connection	1.5" / 2"		3"		4"		6"	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
NPT	6.00	152.4	N/A	N/A	N/A	N/A	N/A	N/A
Butt Weld	6.00	152.4	N/A	N/A	N/A	N/A	N/A	N/A
150# RFF	6.50	165.1	6.56	166.62	6.56	166.62	6.50	165.1
300# RFF	6.81	173.0	6.75	171.45	6.88	174.75	6.94	176.3
600# RFF	7.19	182.6	7.12	180.85	7.50	190.50	11.00	279.4
600# RTJ	7.25	184.2	7.31	185.67	7.56	192.02	11.00	279.4
900# RFF	8.00	203.2	9.63	244.60	10.13	257.30	CONSULT FACTORY	
900# RTJ	8.06	204.7	9.69	246.13	10.19	258.83		
1500# RFF	8.00	203.2	10.25	260.35	10.63	270.00		
1500# RTJ	8.06	204.7	10.31	261.87	10.69	271.53		
2500# RFF	8.50	215.9	11.06	280.92	11.75	298.45		
2500# RTJ	8.56	217.4	11.13	282.70	11.81	299.97		

8" - Consult Factory

How to Order

Example Model No. **LC10-2N50R-1B-01PV15-P1**

LC10 Series Level Controller, 2" NPT Connection, Right-Hand Direct, Carbon Steel Body, 303 Trim, Buna Seals, 1.88 x 12" PVC Displacer, Vertical, 15" Arm, Snap Pilot, 0-30 Brass Gauges

Controller Case
LC10 - Standard Case
LC10B - Back Mount Case
LC10S - Sealed Case

LC10-2 N 50 R - 1 B - 01 P V 15 - P 1

Connection Size

1 - 1.5"* 3 - 3" 5 - 5" (Union Only) 8 - 8"
2 - 2" 4 - 4" 6 - 6"

Connection

N - NPT (male) **J** - RTJ **H** - Hammer Union Acme **W** - Socket Weld
F - RFF **B** - Butt weld **V** - Hammer Union V-Thread

Class

50 - NPT or Union **60** - 600 **25** - 2500 **16** - Shd 160 (butt weld)
10 - 150 **90** - 900 **40** - Shd 40 (butt weld)
30 - 300 **15** - 1500 **80** - Shd 80 (butt weld)

Mounting/Action

L - Left Hand Direct **M** - Left Hand Reverse **B** - Back Mount Direct **T** - Left Hand Ported
R - Right Hand Direct **N** - Right Hand Reverse **P** - Back Mount Reverse **U** - Right Hand Ported

Materials (Body/Trim)

1 - CS/303SS **2** - CS/316 NACE **3** - Low Temp CS/316SS **4** - All 316 Stainless

Seals

B - Buna **V** - Viton® **A** - Aflas® **L** - Low Temp Buna

Displacer Code

01 - 1.88 x 12 (PVC/Acrylic) **02** - 1.66 x 12 (SST 304) **03** - 1.90 x 12 (SST 304) **XX** - Other (C.F.)

Displacer Material

P - PVC **A** - Acrylic **T** - SST

Displacer Orientation

V - Vertical **H** - Horizontal

Arm Code

08 - 8" **14** - 14" **16** - 16" **17** - 17"
12 - 12" (Standard Horz.) **15** - 15" (Standard Vert.) **16.44** - 16.44" (CH30) **24** - 24" (Union)

Pilot

P - Snap **N** - Zero Bleed Snap **E** - SPDT Electric Switch** **Y** - Anti-Vibe Throttle (Liq Filled Gauges)
T - Throttle **D** - DPDT Electric Switch** **V** - Anti-Vibe Snap (Liq Filled Gauges)

Gauges

1 - 0-30 Brass **4** - 0-60 SST **7** - 0-30 SST, Liq Filled
2 - 0-60 Brass **5** - 0-30 Brass, Liq Filled **8** - 0-60 SST, Liq Filled
3 - 0-30 SST **6** - 0-60 Brass, Liq Filled **0** - Electric (No Gauges)

Repair kits available

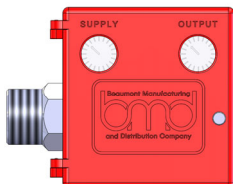
*Requires 1.66 diameter displacer

Custom displacers and arms available

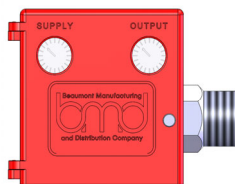
**Require the use of sealed case, LC10S or LC10B

Installation

LEFT HAND MOUNT



RIGHT HAND MOUNT



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