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LINC
LEVEL & FLOW
SWITCHES

LEVEL CONTROL SWITCHES

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LEVEL CONTROL SWITCHES

I N D E X

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LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

The LINC-L471 & L471SC Series: Electric Level Control Switches



Application:

Used as a high & low level control, the L471 & L471SC can activate alarms, provide a switch input for control systems, or perform a variety of desired electrical switch operations actuated by a liquid or liquid interface.

Operation:

As the float is moved by varying liquid height, a magnet is moved closer to or further away from a switch enclosure. As the magnet moves closer, a reed switch in the enclosure closes. As the magnet moves further away, the switch opens. The arm containing the magnet also acts as a counterweight for the float.

The float is small and will operate in liquids with a specific gravity as low as 0.4. The interface type will operate with a specific gravity differential as low as 0.1. This small float permits an economical installation in locations where other controls would be cost prohibitive. Available with a relay mounted in an explosion-proof case allowing the control of larger electrical loads. The manual override option allows the operator to manually move the float arm to the test switch position.

Benefits:

- Easy to Repair.....
- Easy to Field Test.....
- No Leaks.....
- Lower Operating Costs.....
- Lower Inventory.....
- Versatile.....
- Safe.....
- Corrosion Resistant.....
- Optional Corrosion Resistant Materials.....
- Reliable.....
- High & Low Pressure Applications.....

Features:

- Repairs on-site in 20 minutes with the Quick-Change switch cartridge
- The Manual Override option enables mechanical and electrical function testing while installed
- Environmentally-isolated design keeps operational fluids away from electrical circuitry
- Quick-Change, inexpensive replacement parts
- One L471 inverts for both High & Low level applications
- One L471 provides both normally open, and normally closed switching by simply inverting the L471
- Certified as explosion-proof¹ for Hazardous Locations: Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; and Class III, Div.1, by CSA a Nationally recognized Testing Laboratory in the U.S. and Canada
- Standard 316 Stainless Steel wetted and housing components for corrosion resistance
- Monel, Kynar, Teflon, Teflon Coated, Hastelloy C, PVC, Polypropylene, and Alloy 20
- Sealed switch cartridge prevents dust, fluids, and corrosion from interfering with electrical circuitry
- Available with Stainless Steel and Polypropylene displacer options for various process pressures

¹ When a relay assembly is used, Class I, Div. 1, is limited to Groups C and D.

LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

Specifications: L471 & L471SC Series Electric Level Control Switches

Pressure:	1,500 psi standard, available to 5,000 psi, (1,500 psi maximum with the Manual Override option)
Temperature:	-40°F to +400°F standard, with 500°F optional
Specific Gravity:	0.4 minimum standard; interface 0.1 differential minimum
Materials:	316 stainless steel wetted parts are standard. Available in other austenitic metals and plastics
Switch Rating:	SPST (SPDT optional) 100 V.A. AC, 100W DC, 3 amp inrush capability, maximum of 250 Volts, Hermetically sealed
Connections:	
Electrical:	1/2" conduit standard, with other sizes optional
Process:	1 1/2" NPT standard, available in 2" NPT, 3" flanged or larger, and externally caged
CSA Certification:	Listed as explosion-proof for Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; and Class III, Div. 1

Ordering Chart:

Series:

- L471 - Electric level control
- L471SC - Externally caged electric level control. Note: The body style is always "0" due to ring bolt. 1,500 psi WP standard; 3,000 psi WP available ²

Body Style:

- 0 - Standard, 1 1/2" NPT (ring bolt on L471SC)
- 1 - Standard, 2" NPT
- 2 - Standard, 1 1/2" NPT, manual override ³
- 4 - Standard, 2" NPT, manual override ³
- 3 - Extd. body ⁴, 2" NPT, vertical displacer
- 6 - Extd. body ⁴, 2" NPT, vertical displacer, manual override
- 7 - Extd. body ⁴, 2" NPT, horizontal displacer
- 8 - Extd. body ⁴, 2" NPT, horizontal displacer, manual override

Type:

- 1 - Standard
- 2 - High pressure, 5,000 psi polypropylene displacer, temp. +180°F max, spec. grav. 0.6 min.
- 3 - Interface, 5,000 psi polypropylene displacer, temp. +180°F max, upper fluid less than: .870 spec. grav; lower fluid more than: .970 spec. grav.
- 4 - Other gravities for interface, specify gravities of fluids (upper & lower)
- 9 - Displacer, 5,000 psi polypropylene displacer, temp. +180°F max, spec. grav. 0.5 min.

Other ⁵:

- 02 - Annulus plug
- 03 - Relay assembly ¹, general purpose plug-in, 24VDC DPDT 10 Amp
- 04 - Relay assembly ¹, general purpose plug-in, 120VAC DPDT 10 Amp
- 08 - Relay assembly ¹, hermetically sealed plug-in, 24VDC DPDT 10 Amp
- 09 - Relay assembly ¹, hermetically sealed plug-in, 120VAC DPDT 10 Amp
- 05 - This number means special; specify your requirements. i.e. 3" flanged 150# RF

Option Number:

- () - Factory will assign an option number based on specified requirements.

¹ When a relay assembly is used, Class I, Div. 1, is limited to Groups C, and D.

² L471SC pressure limitation is 3,000 psi on cage.

³ Not available on L471SC.

⁴ Body style 3, 6, 7, 8 available only Type 9.

⁵ If no further requirements are desired, omit "Other" option codes from the part number.

LINC-_____ - _____ - _____ ()

Example: LINC-L471-21-05 electric level control

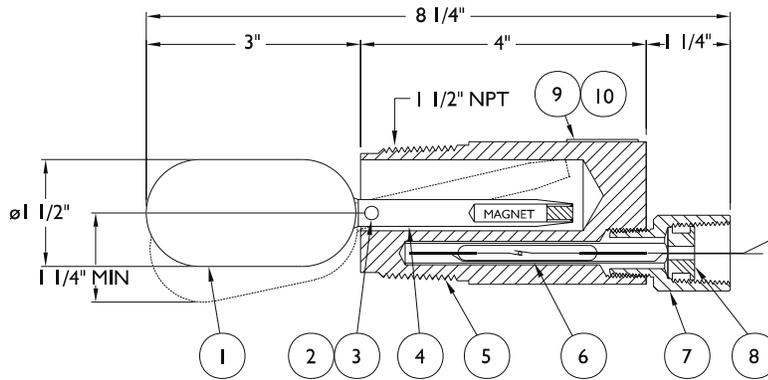
Specify: 3" - 150# RF, CS flange, 120 VAC relay

LINC
LEVEL & FLOW
SWITCHES

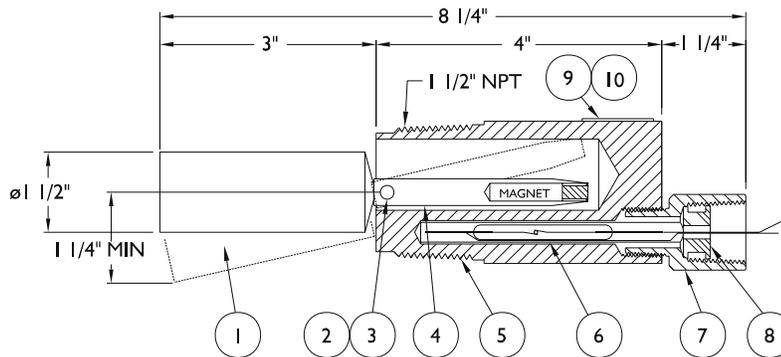
LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

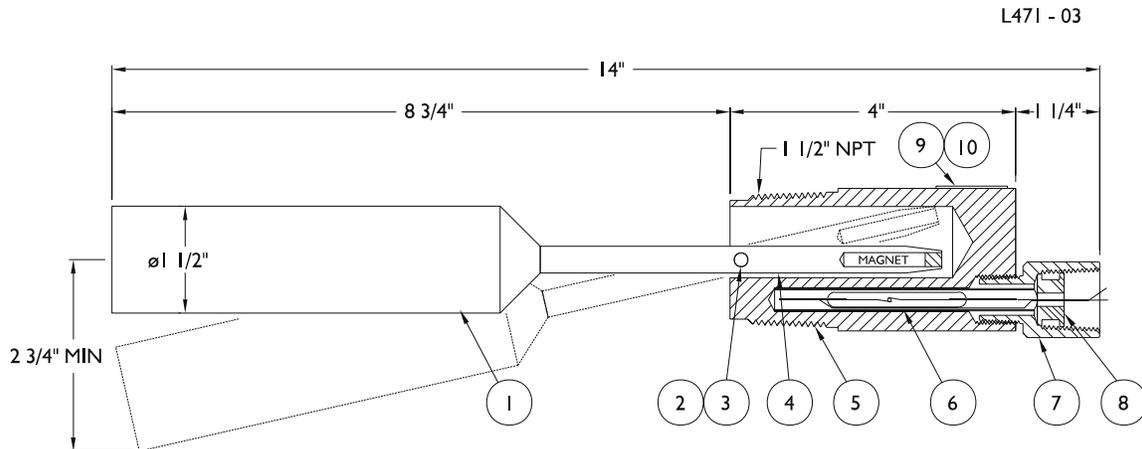
The LINC-L471 Series:
Standard Units, Diagram



L471 - 01



L471 - 02

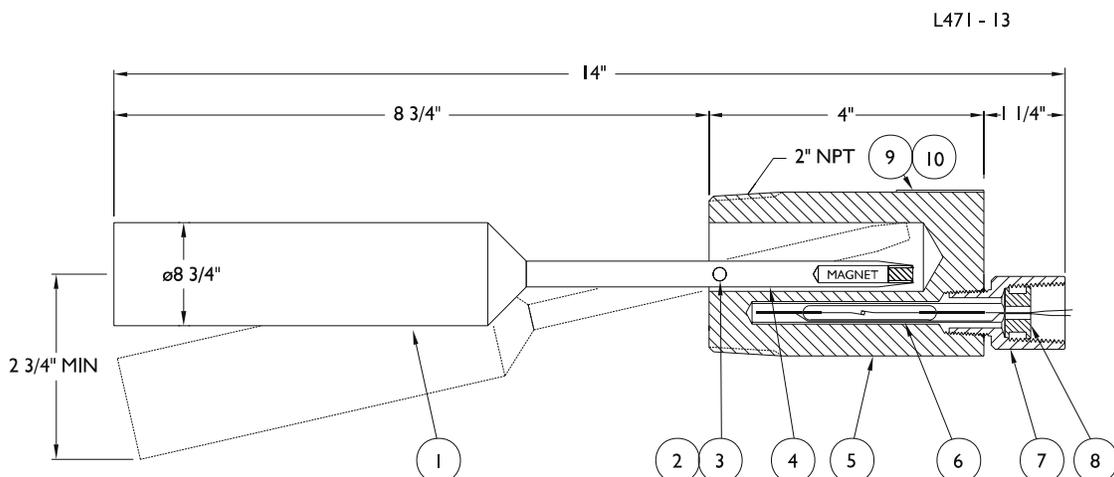
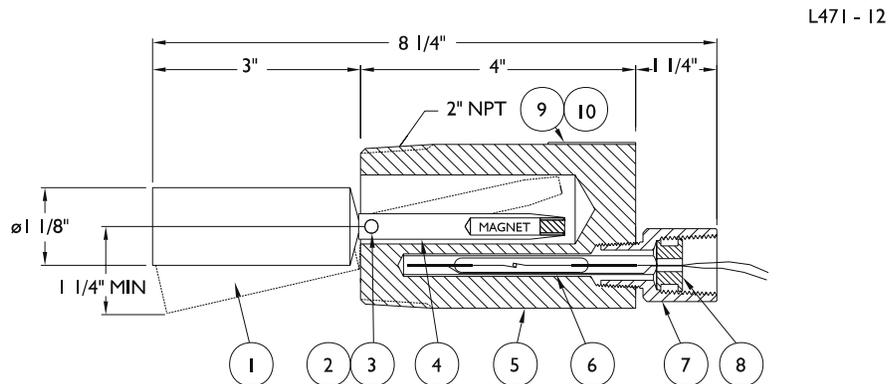
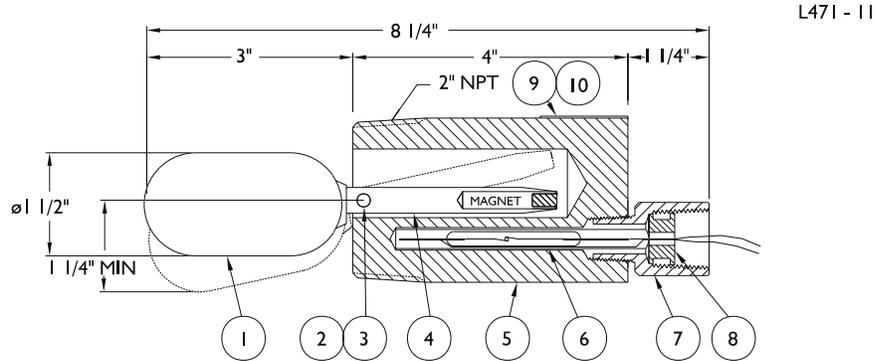


L471 - 03

LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

The LINC-L471 Series:
Standard Units, Diagram



LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

The LINC-L471 Series: Standard Units, Parts List

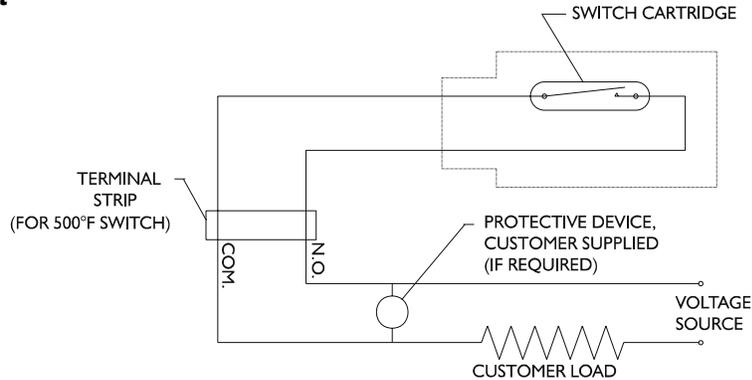
Model Item	L471-01 Part #	L471-02 Part #	L471-03 Part #	Description	Material	Qty
1	10245			Float	316 ss	1
		20149	20136	Float	Polypropylene	1
2	20120	20120	20120	Pin	316 ss	1
3	20121	20121	20121	Spacer	316 ss	1
4	20853	20853	21671	Float/Magnet Arm	316 ss	1
5	30313	30313	30313	Body	316 ss	1
6	See Chart On Page 9			Switch Cartridge	Sealed	1
7	20119	20119	20119	Conduit Adapter	303 ss	1
8	10087	10087	10087	Grommet	Nitrile	1
9	12971	10012	10012	Nameplate	316 ss	1
	10324	10324	10324	Drive Screw (not shown)	18-8 ss	2

Model Item	L471-11 Part #	L471-12 Part #	L471-13 Part #	Description	Material	Qty
1	10245			Float	316 ss	1
		20149	20136	Float	Polypropylene	1
2	20334	20334	20334	Pin	316 ss	1
3	20121	20121	20121	Spacer	316 ss	1
4	20853	20853	21671	Float/Magnet Arm	316 ss	1
5	31071	31071	31071	Body	316 ss	1
6	See Chart On Page 9			Switch Cartridge	Sealed	1
7	20119	20119	20119	Conduit Adapter	303 ss	1
8	10087	10087	10087	Grommet	Nitrile	1
9	10012	10012	10012	Nameplate	316 ss	1
10	10324	10324	10324	Drive Screw (not shown)	18-8 ss	2

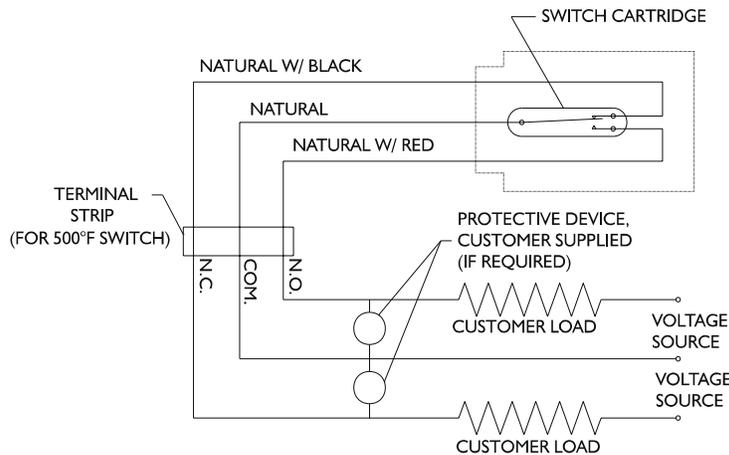
LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

**The LINC-L471 Series:
High Temperature Switch Cartridges,
Diagram & Parts List**



TYPICAL ELECTRICAL SCHEMATIC
FOR 400°F & 500°F SPST SWITCH



TYPICAL ELECTRICAL SCHEMATIC
FOR 400°F & 500°F SPDT SWITCH

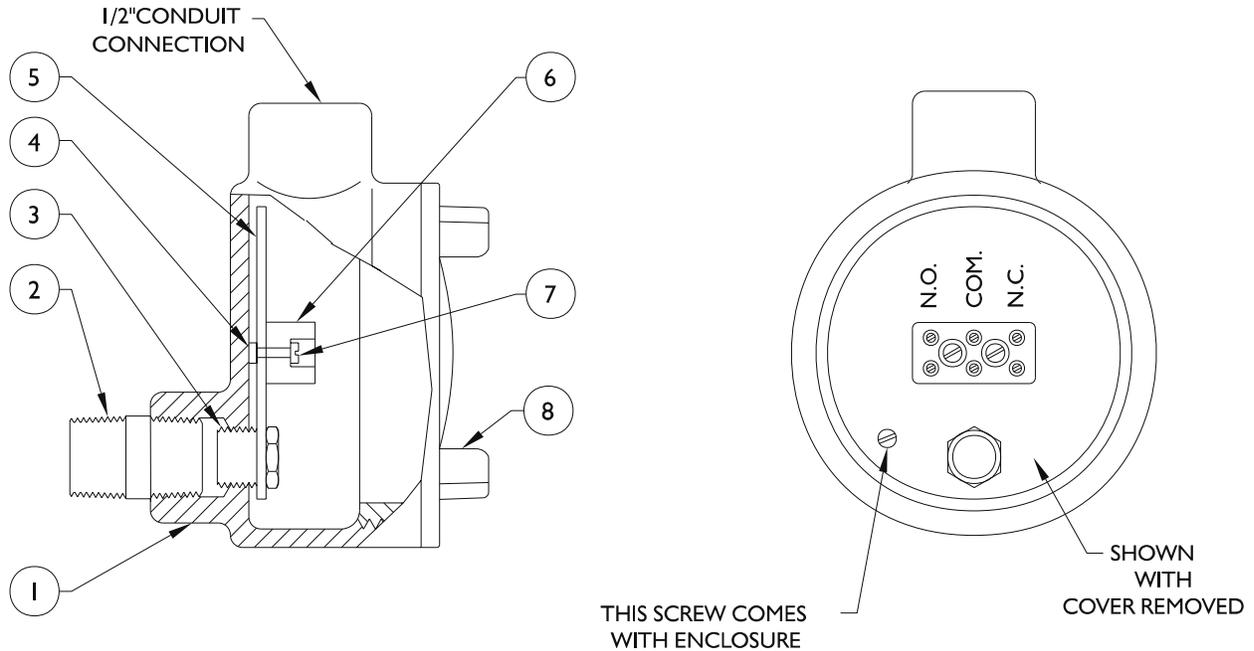
Electric Switch Cartridges

Part #	Description	Availability
20495	Switch Cartridge, SPST, 400°F rating	Standard
24834	Switch Cartridge, SPST, 500°F rating	Optional
24835	Switch Cartridge, SPDT, 500°F rating	Optional
24836	Switch Cartridge, SPDT, 400°F rating	Optional

LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

The LINC-L471 Series:
High Temperature Switch Cartridges,
Diagram & Parts List

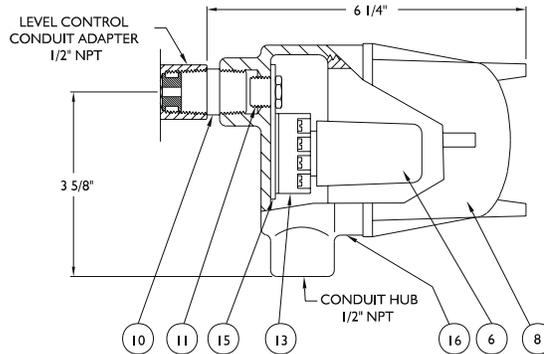


Assembly Item	24898 Part #	Enclosure Assembly Description	Qty
1	21707	Enclosure	1
2	10236	Nipple	1
3	10376	Bushing	1
4	13179	Nut	2
5	24987	Mounting Plate	1
6	13178	Ceramic Terminal Strip	1
7	13178	Screw	2
8	10739	Flat Cover	1

LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

The LINC-L471 Series:
Relay Assembly,
Diagram & Parts List



Model	-03	-04	-08	-09		
Voltage	24 VDC	120 VAC	24 VDC	120 VAC		
Type	G.P.	G.P.	Sealed	Sealed		
Assembly	21591	21593	24385	24664		
Item	Part #	Part #	Part #	Part #	Description	Qty
1	10425	10239	10425	10239	Protective Device (not shown)	1
2	10420	10420	10420	10400	Insulating Tubing (not shown)	1
3	10423	10423	10423	10423	Wire Lug (not shown)	1
4	10623	10623	10623	10623	Female Terminal (not shown)	1
5	10925	10925	10925	10925	Male Terminal (not shown)	1
6	10727	10688	10086	10262	Relay	1
7	22062	22062	22062	22062	Enclosure Assembly	1

Model	-05	-05	-05	-05	-05		
Voltage	240 VAC	6 VDC	12 VDC	46 VDC	110 VDC		
Type	G.P.	G.P.	G.P.	G.P.	G.P.		
Assembly	21594	21589	21590	21592	20286		
Item	Part #	Part #	Part #	Part #	Part #	Description	Qty
1	10426	10425	10425	10425	10425	Protective Device (not shown)	1
2	10420	10420	10420	10420	10420	Insulating Tubing (not shown)	1
3	10423	10423	10423	10423	10423	Wire Lug (not shown)	1
4	10623	10623	10623	10623	10623	Female Terminal (not shown)	1
5	10925	10925	10925	10925	10925	Male Terminal (not shown)	1
6	10729	10725	10726	10728	10587	Relay	1
7	22062	22062	22062	22062	22062	Enclosure Assembly	1

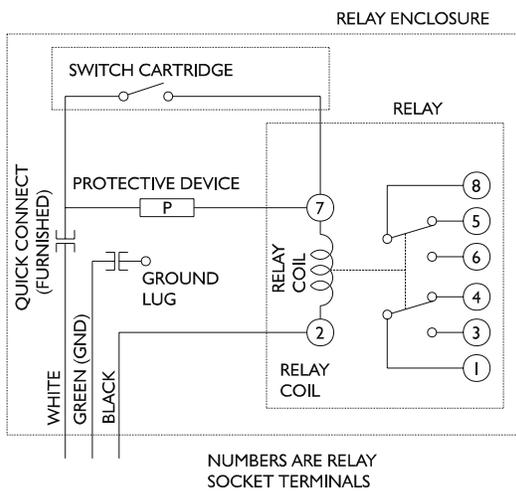
Assembly	22062	Enclosure Assembly	
Item	Part #	Description	Qty
8	10036	Cover	1
9	10189	6-32 x 3/16" Screw (not shown)	1
10	10236	Nipple	1
11	10376	Bushing	1
12	10436	6-32 x 5/8" Screw (not shown)	1
13	10472	Octal Socket	1
14	12001	Ring Terminal (not shown)	1
15	20948	Mounting Plate	1
16	21707	Enclosure	1

LEVEL CONTROL SWITCHES

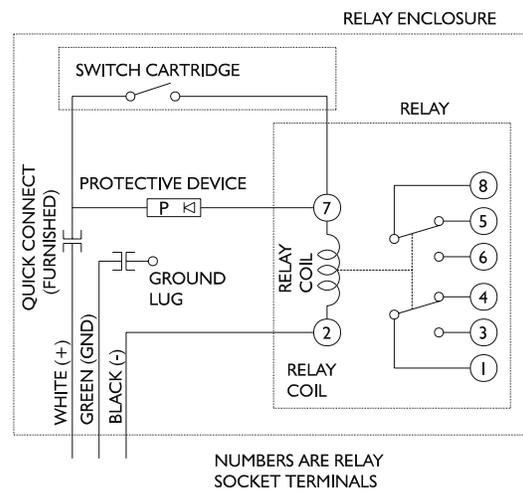
LINC - L471 & L471SC SERIES

The LINC-L471 Series: Relay Wiring Diagram & Manual Override Diagram

WIRING SCHEMATIC
FOR AC VOLTAGE, DPDT
PLUG-IN RELAY

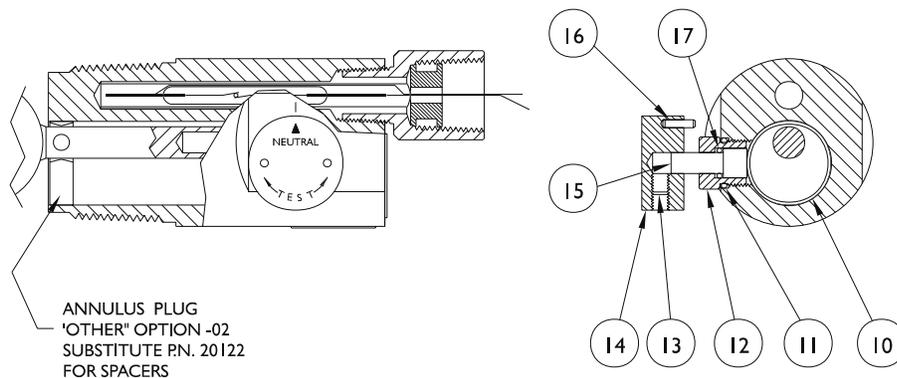


WIRING SCHEMATIC
FOR DC VOLTAGE, DPDT
PLUG-IN RELAY



STANDARD MANUAL OVERRIDE BODY STYLE -2, -4

PARTS SHOWN ARE FOR MANUAL OVERRIDE.
OTHER PARTS ARE SAME AS STANDARD UNITS.



LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

The LINC-L471 Series: Standard Units, Parts List

Model Item	L471-21 Part #	L471-22 Part #	L471-23 Part #	Description	Material	Qty
1	10245			Float	316 ss	1
		20149	20136	Float	Polypropylene	1
2	20120	20120	20120	Pin	316 ss	1
3	20121	20121	20121	Spacer	316 ss	2
4	24883	24883	21671	Float/Magnet Arm	316 ss	1
5	30715	30715	30715	Body	316 ss	1
6	See Chart On Page 9			Switch Cartridge	Sealed	1
7	20119	20119	20119	Conduit Adapter	303 ss	1
8	10087	10087	10087	Grommet	Nitrile	1
9	10012	10012	10012	Nameplate	316 ss	1
10	24885	24885	24885	Ring Weldment	316 ss	1
11	10996	10996	10996	O-Ring	Fluorocarbon	1
12	22271	22271	22271	Packing Gland	316 ss	1
13	10621	10621	10621	Set Screw	18-8 ss	1
14	22577	22577	22577	Knob	303 ss	1
15	24875	24875	24875	Stem	316 ss	1
16	11192	11192	11192	Roll Pin	15-7 PH ss	3
17	10108	10108	10108	O-Ring	Fluorocarbon	1
	11193	11193	11193	Nameplate (not shown)	302 ss	1
	10324	10324	10324	Drive Screw (not shown)	18-8 ss	4

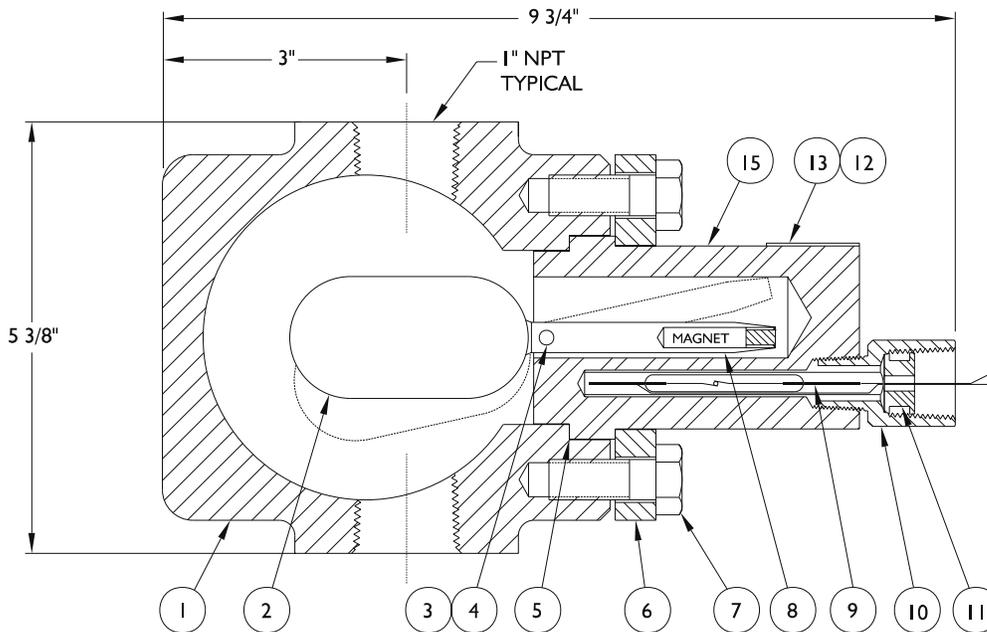
Model Item	L471-41 Part #	L471-42 Part #	L471-43 Part #	Description	Material	Qty
1	10245			Float	316 ss	1
		20149	20136	Float	Polypropylene	1
2	20334	20334	20334	Pin	316 ss	1
3	20121	20121	20121	Spacer	316 ss	1
4	24883	24883	21671	Float/Magnet Arm	316 ss	1
5	31152	31152	31152	Body	316 ss	1
6	See Chart On Page 9			Switch Cartridge	Sealed	1
7	20119	20119	20119	Conduit Adapter	303 ss	1
8	10087	10087	10087	Grommet	Nitrile	1
9	10012	10012	10012	Nameplate	316 ss	1
10	24885	24885	24885	Ring Weldment	316 ss	1
11	10996	10996	10996	O-Ring	Fluorocarbon	1
12	22271	22271	22271	Packing Gland	316 ss	1
13	10621	10621	10621	Set Screw	18-8 ss	1
14	22577	22577	22577	Knob	303 ss	1
15	24875	24875	24875	Stem	316 ss	1
16	11192	11192	11192	Roll Pin	15-7 PH ss	3
17	10108	10108	10108	O-Ring	Fluorocarbon	1
	11193	11193	11193	Nameplate (not shown)	302 ss	1
	10324	10324	10324	Drive Screw (not shown)	18-8 ss	4

LEVEL CONTROL SWITCHES

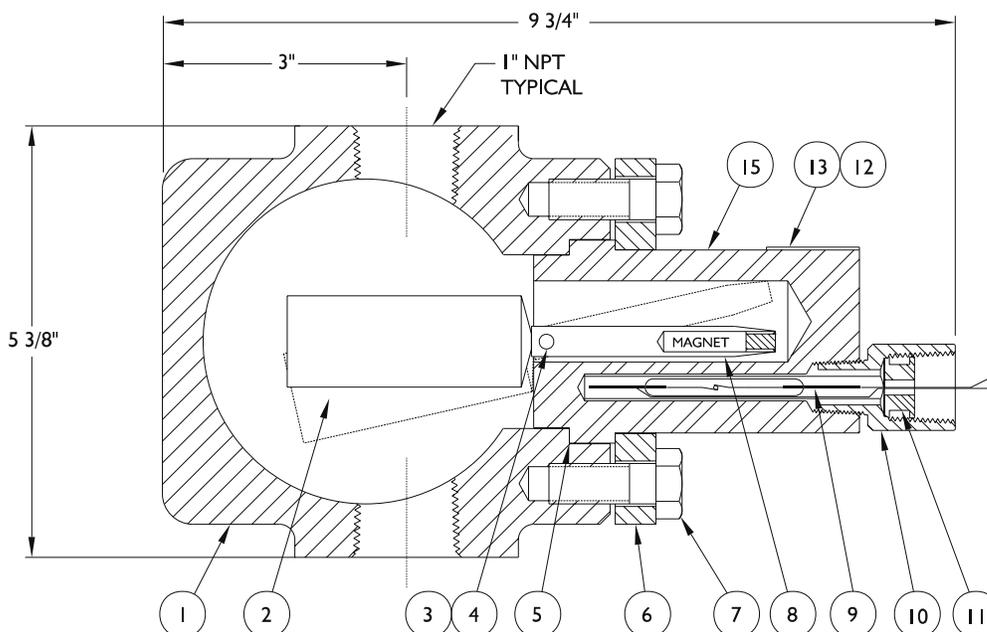
LINC - L471 & L471SC SERIES

The LINC-L471SC Series:
Standard Caged Units

L471SC-01



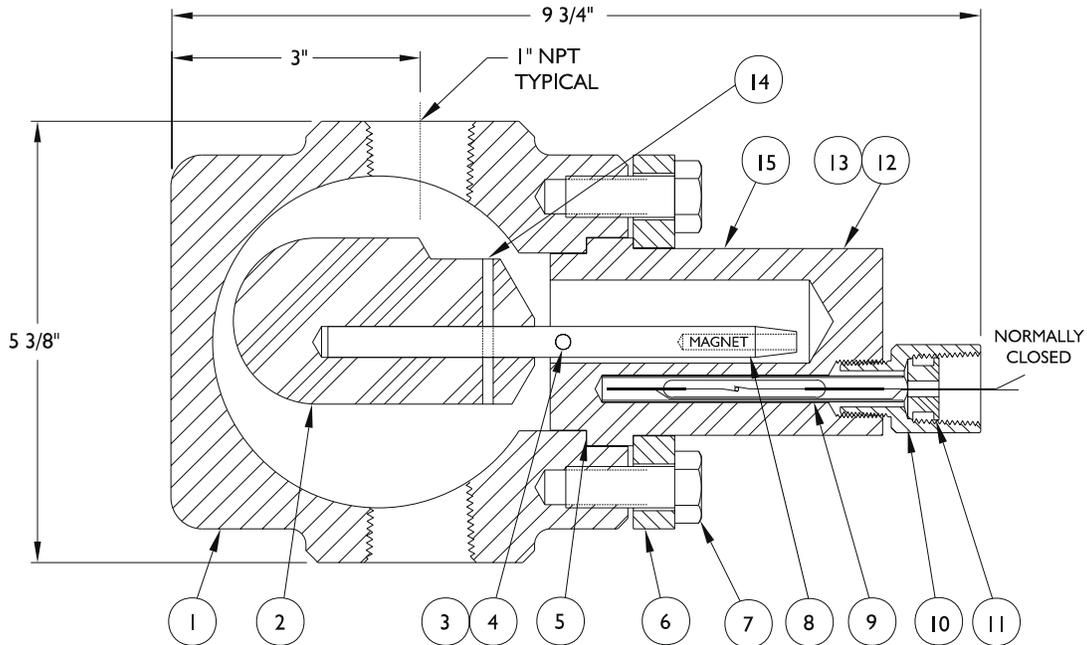
L471SC-02



LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

The LINC-L471SC Series:
Standard Caged Units, Diagram & Parts List



Model LINC-L471SC-03

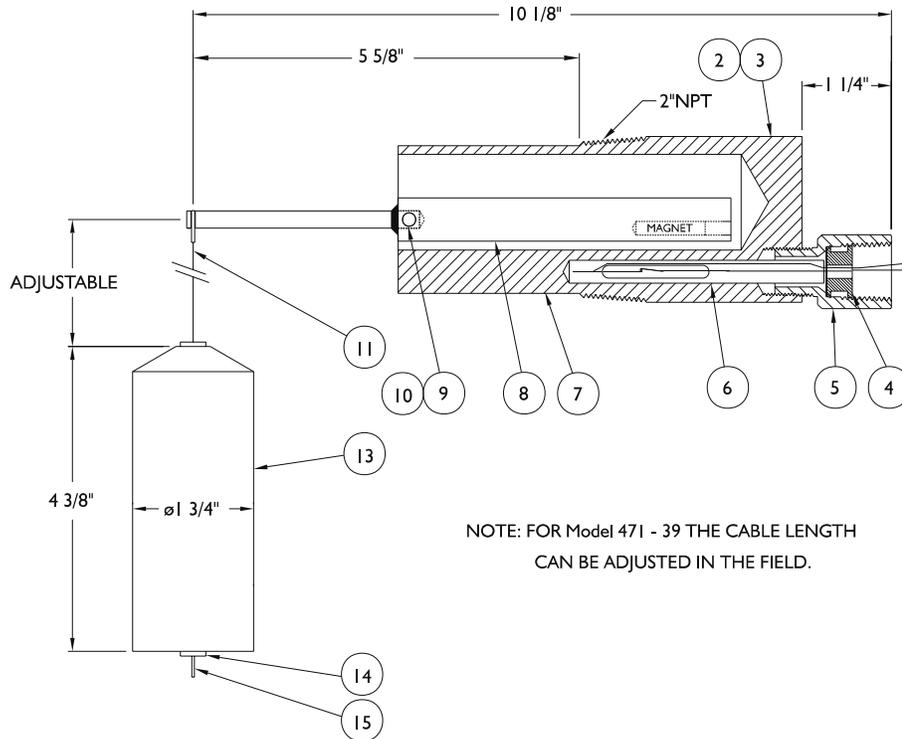
Model	L471SC-01	L471SC-02	L471SC-03	Description	Material	Qty
Item	Part #	Part #	Part #			
1	40256	40256	40256	Cage	Cast Steel	1
2	10245			Float	316 ss	1
		20149	30010	Float	Polypropylene	1
3	20334	20334	20334	Pin	316 ss	2
4	20121	20121	20121	Spacer	316 ss	1
5	11257	11257	11257	Gasket	PTFE	1
6	30258	30258	30258	Ring Flange	Steel	1
7	11216	11216	11216	Cap Screw	Plated, B7	6
8	20853	20853	21518	Float/Magnet Arm	316 ss	1
9	See Chart On Page 9			Switch Cartridge	Sealed	1
10	20119	20119	20119	Conduit Adapter	303 ss	1
11	10087	10087	10087	Grommet	Nitrile	1
12	10013	10013	10013	Nameplate	316 ss	1
13	10324	10324	10324	Drive Screw	18-8 ss	2
14			10663	Pin	15-7 PH ss	1
15	30282	30282	30282	Body	316 ss	1

LEVEL CONTROL SWITCHES

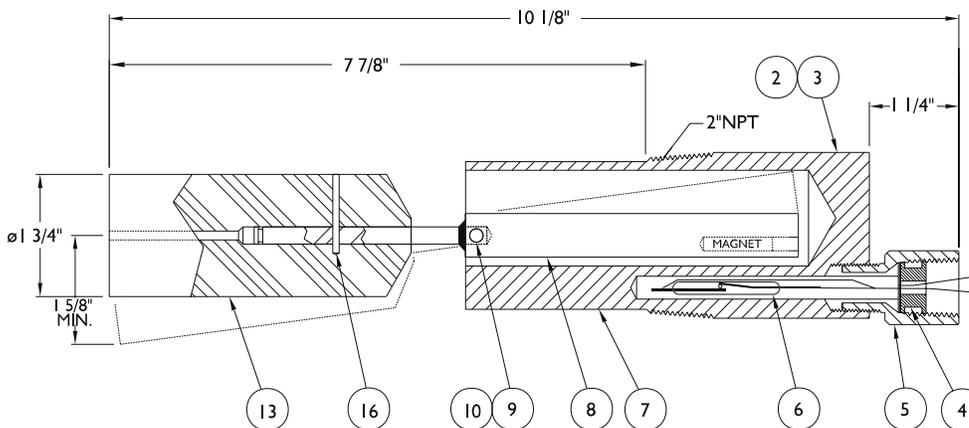
LINC - L471 & L471SC SERIES

The LINC-L471 Series:
Extended Body, Diagram

L471-39



L471-79



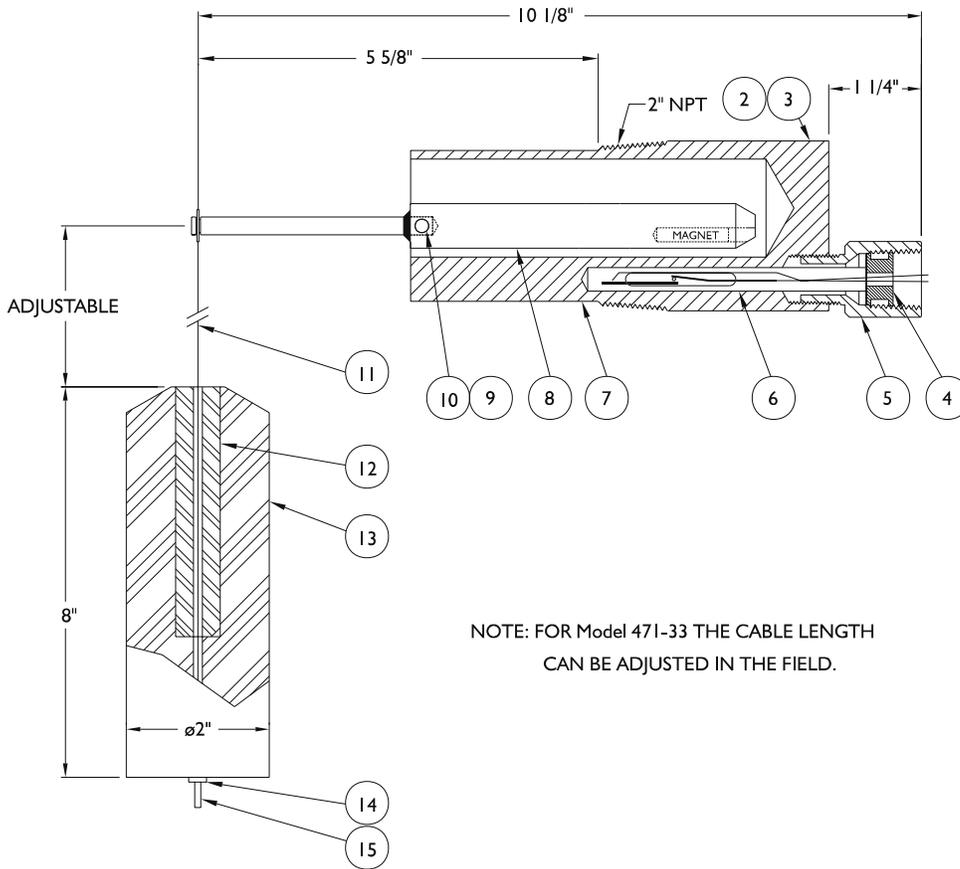
LEVEL CONTROL SWITCHES

LINC - L 4 7 1 & L 4 7 1 S C S E R I E S

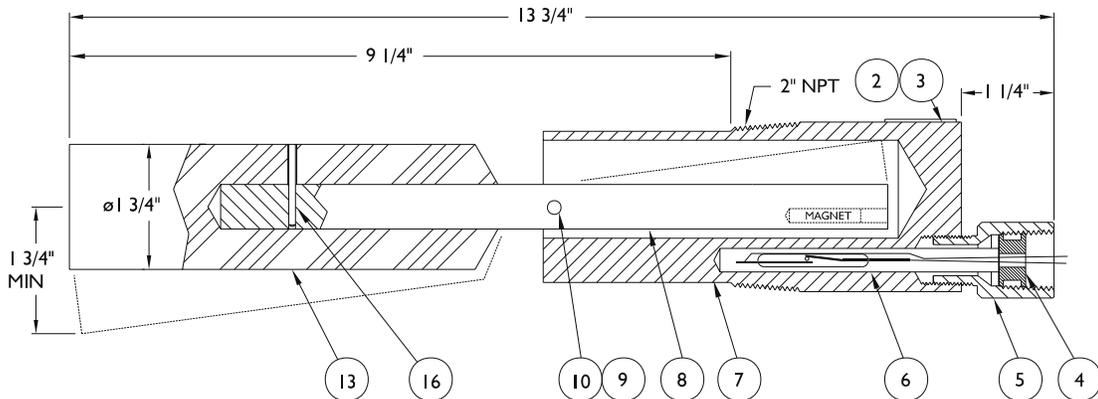
The LINC-L471 Series:
Extended Body, Diagram

L471 ELECTRIC LEVEL CONTROLS

L471 - 33



L471 - 73

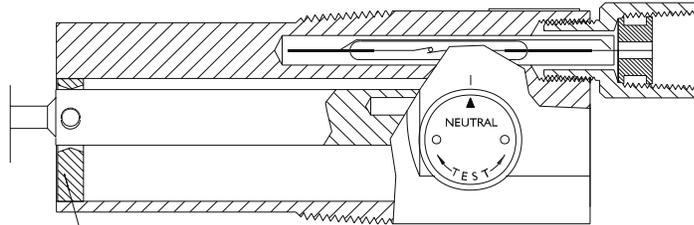


LEVEL CONTROL SWITCHES

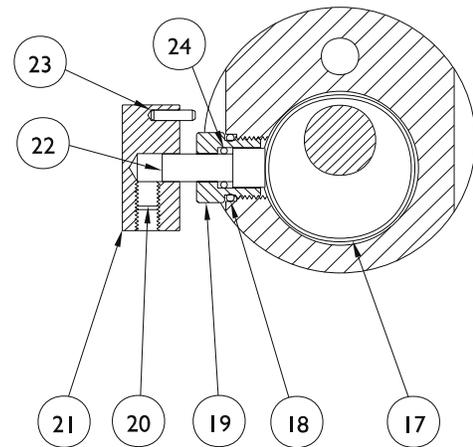
L I N C - L 4 7 1 & L 4 7 1 S C S E R I E S

**The LINC-L471 Series:
Extended Body, Manual Override**

BODY STYLE -6, -8



ANNULUS PLUG
"OTHER" OPTION -02
SUBSTITUTE P.N. 23655
FOR SPACERS



PARTS SHOWN ARE FOR MANUAL OVERRIDE.
OTHER PARTS ARE SAME AS STANDARD UNIT.

LEVEL CONTROL SWITCHES

LINC - L471 & L471SC SERIES

The LINC-L471 Series:

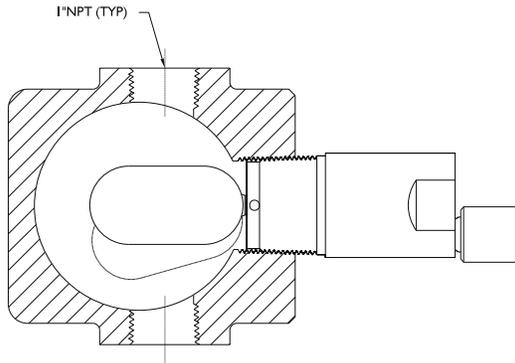
Extended Body Styles -3, -6, -7, -8, Parts List

Model Item	L471-39 Part #	L471-79 Part #	L471-33 Part #	L471-73 Part #	Description	Material	Qty
1					Nameplate (not shown)		1
2	10012	10012	10012	10012	Nameplate	316 ss	1
3	10324	10324	10324	10324	Drive Screw	18-8 ss	2
4	10087	10087	10087	10087	Grommet	Nitrile	1
5	20119	20119	20119	20119	Conduit Adapter	303 ss	1
6	See Chart On Page 9				Switch Cartridge	Sealed	1
7	31079	31079	31079	31079	Body	316 ss	1
8	23540	23540	23540	24401	Float/Magnet Arm	316 ss	1
9	20334	20334	20334	20334	Pin	316 ss	1
10	23604	23604	23604	23604	Spacer	316 ss	2
11	11566		11566		Wire Cable	18-8 ss	24"
12			24181		Weight	316 ss	1
13	23503	23503	24182	24400	Displacer	Polypropylene	1
14	23500		23500		Stop Ring	316 ss	1
15	11565		11565		Crimp	18-8 ss	3
16		10663		10663	Pin	15-7 PH ss	1

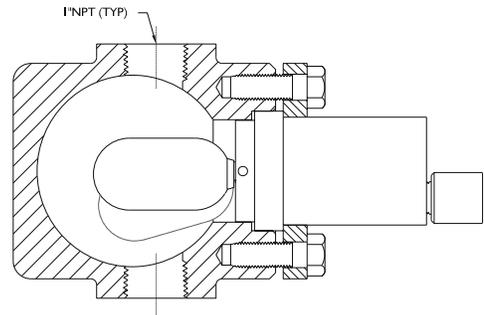
Model Item	L471-69 Part #	L471-89 Part #	L471-63 Part #	L471-83 Part #	Description	Material	Qty
1	11193	11193	11193	11193	Nameplate (not shown)	302 ss	1
2	10012	10012	10012	10012	Nameplate	316 ss	1
3	10324	10324	10324	10324	Drive Screw	18-8 ss	4
4	10087	10087	10087	10087	Grommet	Nitrile	1
5	20119	20119	20119	20119	Conduit Adapter	303 ss	1
6	See Chart On Page 9				Switch Cartridge	Sealed	1
7	31265	31265	31265	31265	Body	316 ss	1
8	24083	24083	24083	25134	Float/Magnet Arm	316 ss	1
9	20334	20334	20334	20334	Pin	316 ss	1
10	23604	23604	23604	23604	Spacer	316 ss	2
11	11566		11566		Wire Cable	18-8 ss	24"
12			24181		Weight	316 ss	1
13	23503	23503	24182	24400	Displacer	Polypropylene	1
14	23500		23500		Stop Ring	316 ss	2
15	11565		11565		Crimp	18-8 ss	3
16		10663		10663	Pin	15-7 PH ss	1
17	24887	24887	24887	24887	Ring Weldment	316 ss	1
18	10996	10996	10996	10996	O-Ring	Fluorocarbon	1
19	22271	22271	22271	22271	Packing Gland	316 ss	1
20	10621	10621	10621	10621	Set Screw	18-8 ss	1
21	22577	22577	22577	22577	Knob	303 ss	1
22	24875	24875	24875	24875	Stem	316 ss	1
23	11192	11192	11192	11192	Roll Pin	15-7 PH ss	3
24	10108	10108	10108	10108	O-Ring	Fluorocarbon	1

LEVEL CONTROL SWITCHES

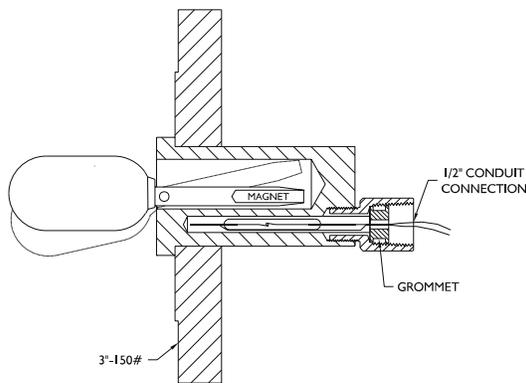
STANDARD UNIT OPTIONS



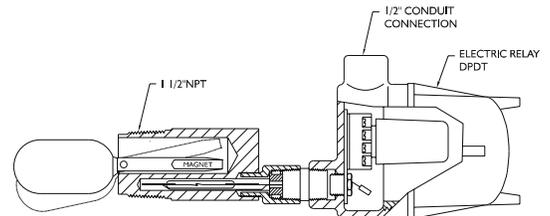
L471-01 and 700 Series Cage
Compact external cage available in steel or stainless steel.



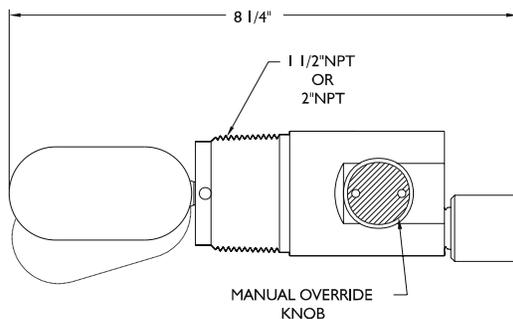
L471SC-01 Ring Bolted
This ring bolt configuration eliminates the pipe threads on control mount and this meets API- RP14E Specifications.



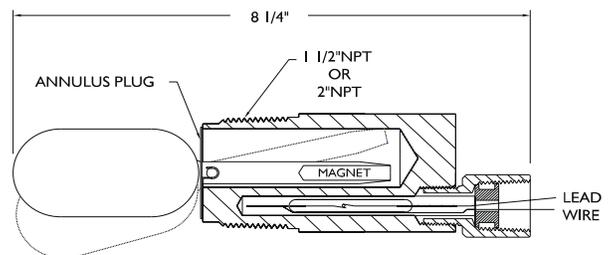
L471-01-05 Flanged
Flanged units are available in 3" and larger at all pressure ratings.



L471-01-03 Relay
Relay assembly gives DPDT contacts. Available on all models.



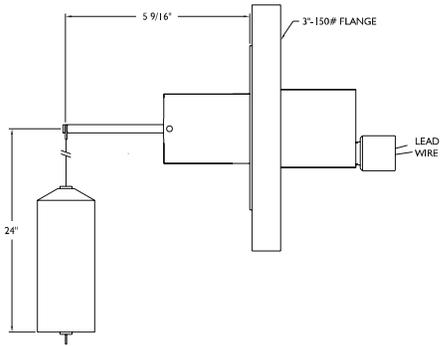
L471-21 Manual Override
Turning the external knob causes the float arm to move, closing and opening the switch.



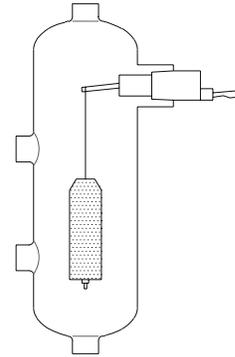
L471-01-02 Annulus Plug
The Annulus Plug prevents foreign material from getting into the cavity. Available on all models.

LEVEL CONTROL SWITCHES

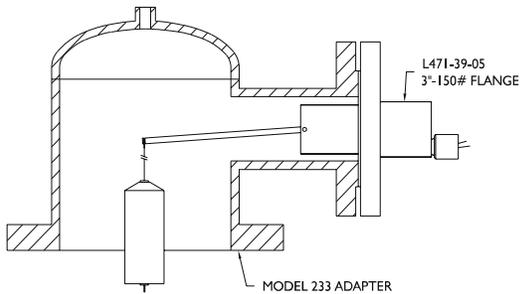
OPTIONAL CONFIGURATIONS



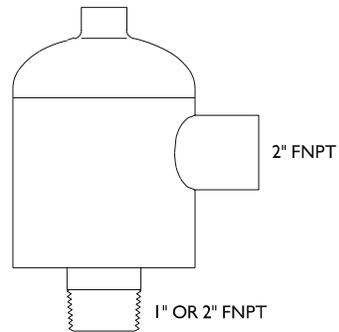
L471-39-05 Flanged Model
Distance from horizontal center line of control to displacer is field adjustable.



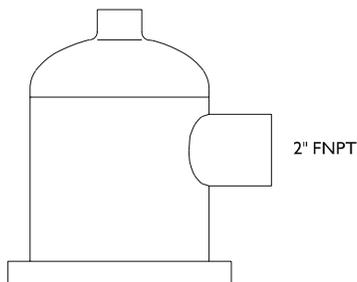
Choice of threaded, beveled or flanged process connections.



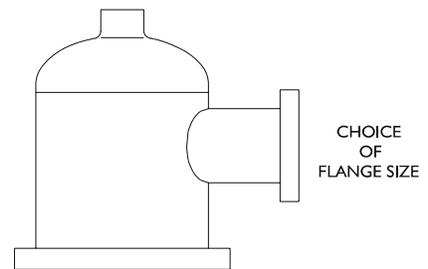
L471-39-05 with Model 233 Adapter



Model 221



Model 223



Model 233