

KIMRAY
INC.®

LEVEL CONTROLS

FLOAT OPERATED



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GEN II SIDE MOUNT: **C1:10.2**
 APPLICATIONS: Liquid level controller for oil and gas separators, water knock-outs, gas scrubbers and accumulators.
 OPERATING PRESSURE RANGES: 0 psig to 4000 psig

GEN II BACK MOUNT: **C1:20.2**
 APPLICATIONS: Liquid level controller for oil and gas separators, water knock-outs, gas scrubbers and accumulators.
 OPERATING PRESSURE RANGES: 0 psig to 4000 psig

GEN II ELECTRONIC BACK MOUNT: **C1:30.2**
 APPLICATIONS: Liquid level controller for oil and gas separators, water knockouts, gas scrubbers and accumulators.
 OPERATING PRESSURE RANGES: 0 psig to 4000 psig

GEN II SIDE MOUNT BODIES **C1:40.1**
GEN II BACK MOUNT BODIES **C1:40.5**
GEN II FLOAT ASSEMBLIES **C1:40.7**
GEN II VERTICAL EXTERNAL FLOAT CAGE **C1:40.9**
GEN II HORIZONTAL EXTERNAL FLOAT CAGE **C1:40.10**

HORIZONTAL ELECTRIC LEVEL SWITCH WITH MANUAL OVERRIDE: **C1:50.2**
 APPLICATIONS: Senses a specific liquid level and produces electric output.
 Electric output can activate alarms, solenoid valves or other electrically switched devices
 OPERATING PRESSURE RANGES: 0 psig to 5000 psig

HORIZONTAL ELECTRIC LEVEL SWITCH WITHOUT MANUAL OVERRIDE: **C1:50.3**
 APPLICATIONS: Senses a specific liquid level and produces electric output.
 Electric output can activate alarms, solenoid valves or other electrically switched devices
 OPERATING PRESSURE RANGES: 0 psig to 5000 psig

HORIZONTAL PNEUMATIC LEVEL SWITCH WITH RELAY: **C1:60.2**
 APPLICATIONS: Liquid level controller for oil and gas separators, water knockouts, gas scrubbers and accumulators.
 OPERATING PRESSURE RANGES: 0 psig to 2000 psig

HORIZONTAL PNEUMATIC LEVEL SWITCH WITHOUT RELAY: **C1:70.2**
 APPLICATIONS: Liquid level controller for oil and gas separators, water knockouts, gas scrubbers and accumulators.
 OPERATING PRESSURE RANGES: 0 psig to 2000 psig

LEVEL SWITCH HORIZONTAL EXTERNAL FLOAT CAGE **C1:80.1**

UNIVERSAL LEVEL CONTROLLER: **C1:90.2**
 APPLICATIONS: Liquid level controller for oil and gas separators, water knockouts, gas scrubbers and accumulators.
 OPERATING PRESSURE RANGES: 0 psig to 1500 psig

TECHNICAL DATA:

GEN II SIDE MOUNT DIMENSIONS **C1:I**
GEN II BACK MOUNT DIMENSIONS **C1:II**
GEN II FLANGE DIMENSIONS **C1:III**
SEALS C1:IV
MATERIAL SPECIFICATIONS **C1:V**
TEMPERATURE C1:VI

CODE BUILDER

Creating Kimray Part Number with Options

GEN II Options

Base Part Number from catalog (Example: CMK)

Misc Options:

L6 = Float Arm 6" Extension

L12 = Float Arm 12" Extension

L18 = Float Arm 18" Extension

Trim Material Options:

S6B = 316 Stainless Steel Mounting Piece

S6F = 316 Stainless Steel Displacer

Cable Cord:

L50 = 50 ft Long Cable for Electric GEN II

L100 = 100 ft Long Cable for Electric GEN II

Elastomer Options: Low Temp Viton is Standard

AF = Aflas

HSN = Highly Saturated Nitrile

T = Teflon

Certifications

NC = NACE certificate

MTR = Material Test Reports

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Level Switch Options

Base Part Number from catalog (Example: CUA)

Misc Options:

L3 = Float Arm 3" Extension

L6 = Float Arm 6" Extension

LPW = Low Power with Stainless Steel Displacer (Electric Level Switch option only)

PP = Poly Float - High-density Polyethylene (Electric Level Switch option only)

Trim Material Options:

S6 = 316 Stainless Steel Filter Body and Breather Plug (Pneumatic Level Switch only)

Elastomer Options: FKM (Similar to Viton) is standard

LTN = Low Temp Nitrile Diaphragm and 155 O-ring only

(all other elastomers standard) (Pneumatic Level Switch only)

Certifications

NC = NACE certificate

MTR = Material Test Reports

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Leave blank where no options are desired. Consolidate by removing blanks

Example:

CUA	L3		LTN
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reduces to CUAL3LTN

APPLICATIONS:

Liquid level controller for oil and gas separators, water knock-outs, gas scrubbers and accumulators.

Liquid interface control in fluids of 0.20 minimum differential specific gravities with the standard displacer. Other displacers are available to control liquid interface to 0.10 minimum specific gravities.

Operates any diaphragm motor valve requiring not more than 30 psig diaphragm pressure. See sections E1, E2, E3, and E4 for diaphragm operated motor valves.

FEATURES:

- Compact design
- Snap or throttle control in one pilot
- Intermittent vent pilot (Preferred EPA Natural Gas Star BMP)
- Vent Rate (@ 30 psi - 0.4 scfd snap; 0.6 scfd throttle)
- NACE MR0175 compliant Wetted Parts
- Certification documents Available upon request, specify when ordering
- Low Temp Process Seal (Std.) (-50°F to 300°F)
- Powder coated enclosure
- Vibration tough
- No vent gas in Enclosure
- PVC Displacer (Std.) (4000 psi, 175°F);
- 316 SS Displacer (1500 psi, 350°F)
- 40 micron supply gas filter
- 1/4" NPT vented pilot
- Simple pilot removal

OPERATION:

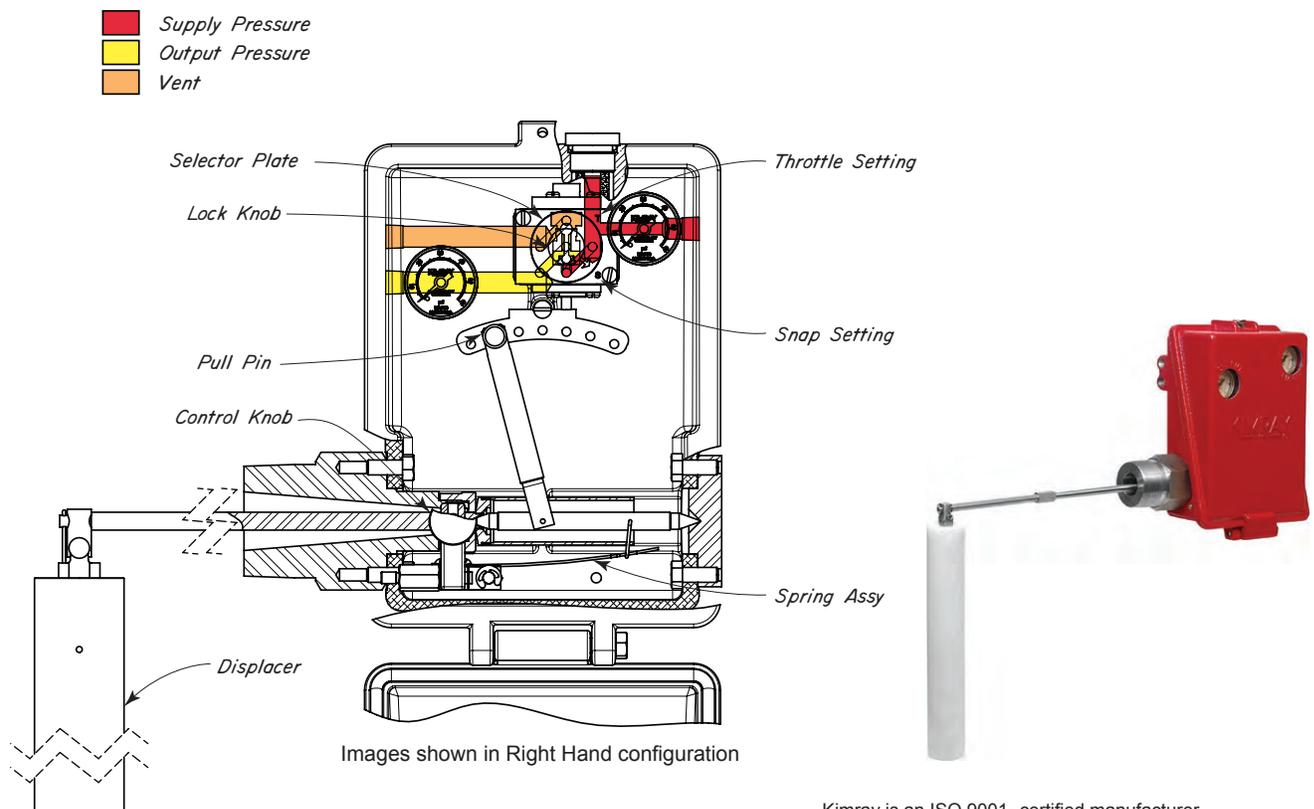
The GEN II Side Mount Liquid Level Controller consists of a DISPLACER for monitoring the changing liquid level, a SPRING for counterbalancing the weight of the DISPLACER, a WAGGLE ARM to transmit DISPLACER movement, a CASE upon which the controller mechanism is mounted, a 30 psig PILOT, a LINK and TANGENT ARM for setting the pilot sensitivity and direct/indirect action of the controller.

The color cross section of the pilot is shown identifying the supply, output and vent connections. In SNAP SERVICE the SELECTOR PLATE is position to the "S". To operate a Pressure Opening Motor Valve, the PULL PIN is place in the outer most hole of the TANGENT ARM right of the PIVOT. As the vessel liquid rises to partially submerge the DISPLACER, the displaced volume of liquid causes the counterbalance spring to exert a downward force at the end of the WAGGLE ARM HOUSING. The resulting downward movement of the LINK moves the TANGENT ARM downward from the ACTUATOR of the PILOT. The generated force of the DISPLACER continues until it activates and SNAPS the PILOT on. YELLOW OUTPUT pressure opens the Pressure Opening Motor Valve allowing the vessel liquid to drain.

As the vessel liquid lowers, the DISPLACER flexes the COUNTERBALANCE SPRING, causing an upward force. The WAGGLE ARM transmits the action through the linkage to the ACTUATOR on the PILOT. The force on the ACTUATOR of the PILOT continues to increase until the PILOT SNAPS off. The YELLOW OUTPUT pressure is vented through the PILOT allowing the Motor Valve to close.

The TANGENT ARM can be adjusted to increase or decrease the SNAP RANGE from 5" to 10" in water. Moving the PULL PIN inward will increase the SNAP RANGE.

For THROTTLE mode the LOCK KNOB is loosened and the SELECTOR PLATE is moved from the "S" position to the "T" position. The PULL PIN is placed left of the PIVOT for a Pressure Open Motor Valve and right of the PIVOT for a Pressure Close Motor Valve.

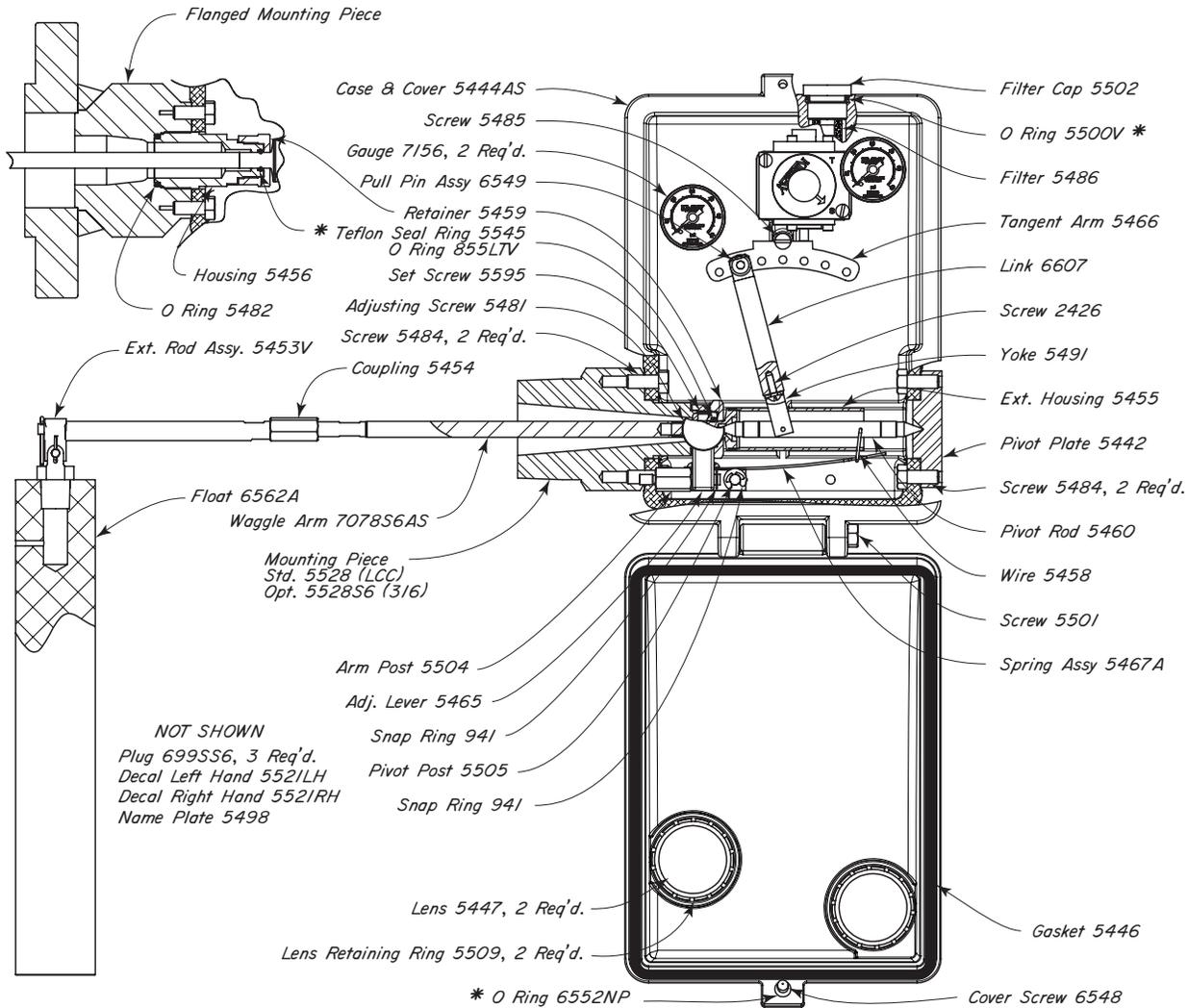


Kimray is an ISO 9001- certified manufacturer.

FLOAT OPERATED LEVEL CONTROLLER



GEN II
LCC, SS6 STEEL BODY



Images shown in Right Hand configuration

CONTROLLERS AVAILABLE:

PART NO.	BODY CONNECTION	MODEL NO.	SUPPLY PRES.	MAX ^{††} W.P.	REP. KIT
CMK	2" NPT	GEN II LLC RH VERT	5-30	4000	RMD
CMKH	2" NPT	GEN II LLC RH HORIZ	5-30	4000	RMD
CML	2" NPT	GEN II LLC LH VERT	5-30	4000	RMD
CMLH	2" NPT	GEN II LLC LH HORIZ	5-30	4000	RMD
CQM	2" NPT	GEN II LLC RH VERT HANG	5-30	4000	RMD
CQN	2" NPT	GEN II LLC LH VERT HANG	5-30	4000	RMD

NOTES:

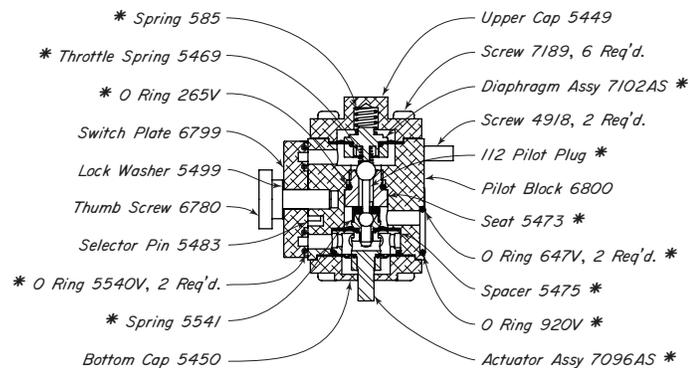
*These parts are recommended spare parts and are stocked as repair kits.

For optional Bodies, Float Assemblies & Float cages see Accessories on pages C1:40.1 - C1:40.6

For standard & optional Seals, Metals, Material specifications & Dimensions see Technical Data on pages C1:1 - C1:V

^{††} Working Pressure based on -20°F to 100°F operating temperature. See page C1:VI for temps above 100°F

YBT PILOTS 30 psig MAX W.P.



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APPLICATIONS:

Liquid level controller for oil and gas separators, water knock-outs, gas scrubbers and accumulators.

Liquid interface control in fluids of 0.20 minimum differential specific gravities with the standard displacer. Other displacers are available to control liquid interface to 0.10 minimum specific gravities.

Operates any diaphragm motor valve requiring not more than 30 psig diaphragm pressure. See sections E1, E2, E3, and E4 for diaphragm operated motor valves.

FEATURES:

- Compact design
- Snap or throttle control in one pilot
- Intermittent vent pilot (Preferred EPA Natural Gas Star BMP)
- Vent Rate (@ 30 psi - 0.4 scfd snap; 0.6 scfd throttle)
- NACE MR0175 compliant Wetted Parts
- Certification documents Available upon request, specify when ordering
- Low Temp Process Seal (Std.) (-50°F to 300°F)
- Powder coated enclosure
- Vibration tough
- No vent gas in Enclosure
- PVC Displacer (Std.) (4000 psi, 175°F);
- 316 SS Displacer (1500 psi, 350°F)
- 40 micron supply gas filter
- 1/4" NPT vented pilot
- Adjustment knob snap range (Patent Pending)
- Simple pilot removal

OPERATION:

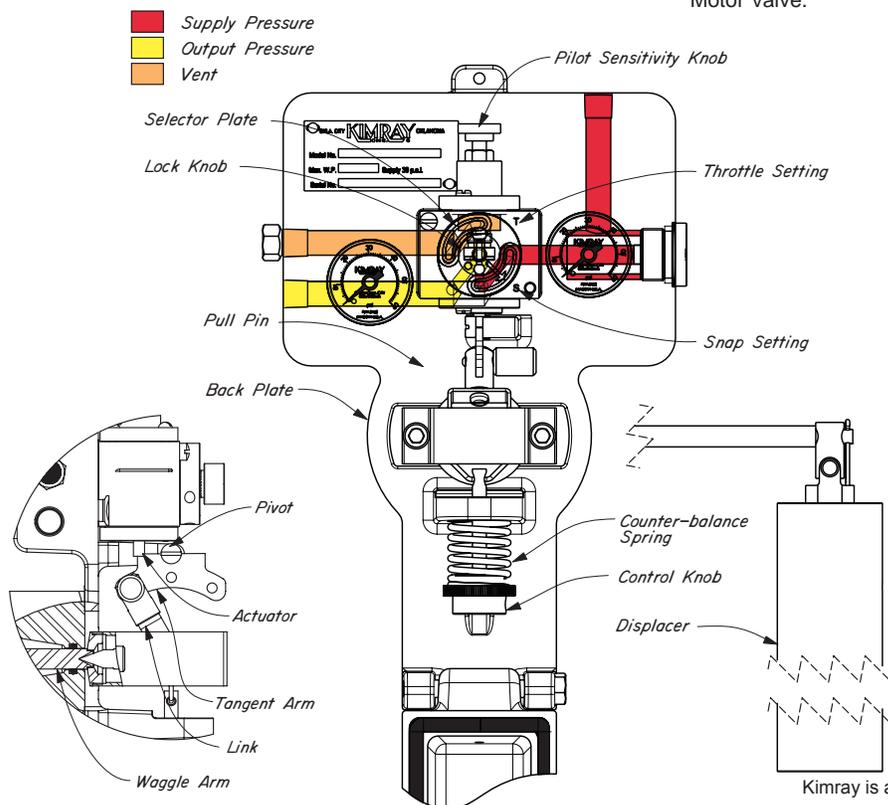
The GEN II Back Mount Liquid Level Controller consists of a DISPLACER for monitoring the changing liquid level, a SPRING for counterbalancing the weight of the DISPLACER, a WAGGLE ARM to transmit DISPLACER movement, a BACK PLATE upon which the controller mechanism is mounted, a 30 psig PILOT, a LINK and TANGENT ARM for setting the pilot sensitivity and direct/indirect action of the controller.

The color cross section of the pilot is shown identifying the supply, output and vent connections. In SNAP SERVICE the SELECTOR PLATE is position to the "S". To operate a Pressure Opening Motor Valve, the PULL PIN is place in the outer most hole of the TANGENT ARM left of the PIVOT. As the vessel liquid-uid rises to partially submerge the DISPLACER. The displaced volume of liquid causes the counterbalance spring to exert a downward force at the end of the WAGGLE ARM HOUSING. The resulting downward movement of the LINK moves the TANGENT ARM downward from the ACTUATOR of the PILOT. The generated force of the DISPLACER continues until it activates and SNAPS the PILOT on. YELLOW OUTPUT pressure opens the Pressure Opening Motor Valve allowing the vessel liquid to drain.

As the vessel liquid lowers, the DISPLACER compresses the COUNTERBALANCE SPRING. The WAGGLE ARM transmits the action through the linkage to the ACTUATOR on the PILOT. The force on the ACTUATOR of the PILOT continues to increase until the PILOT SNAPS off. The YELLOW OUTPUT pressure is vented through the PILOT allowing the Motor Valve to close.

The PILOT SENSITIVITY KNOB can be turned to increase or decrease the SNAP RANGE from 4" to 9" in water. Turning the PILOT SENSITIVITY KNOB clockwise will increase the SNAP RANGE. The PILOT SENSITIVITY KNOB is not functional in the THROTTLE mode.

For THROTTLE mode the LOCK KNOB is loosened and the SELECTOR PLATE is moved from the "S" position to the "T" position. The PULL PIN is placed right of the PIVOT for a Pressure Open Motor Valve and left of the PIVOT for a Pressure Close Motor Valve.

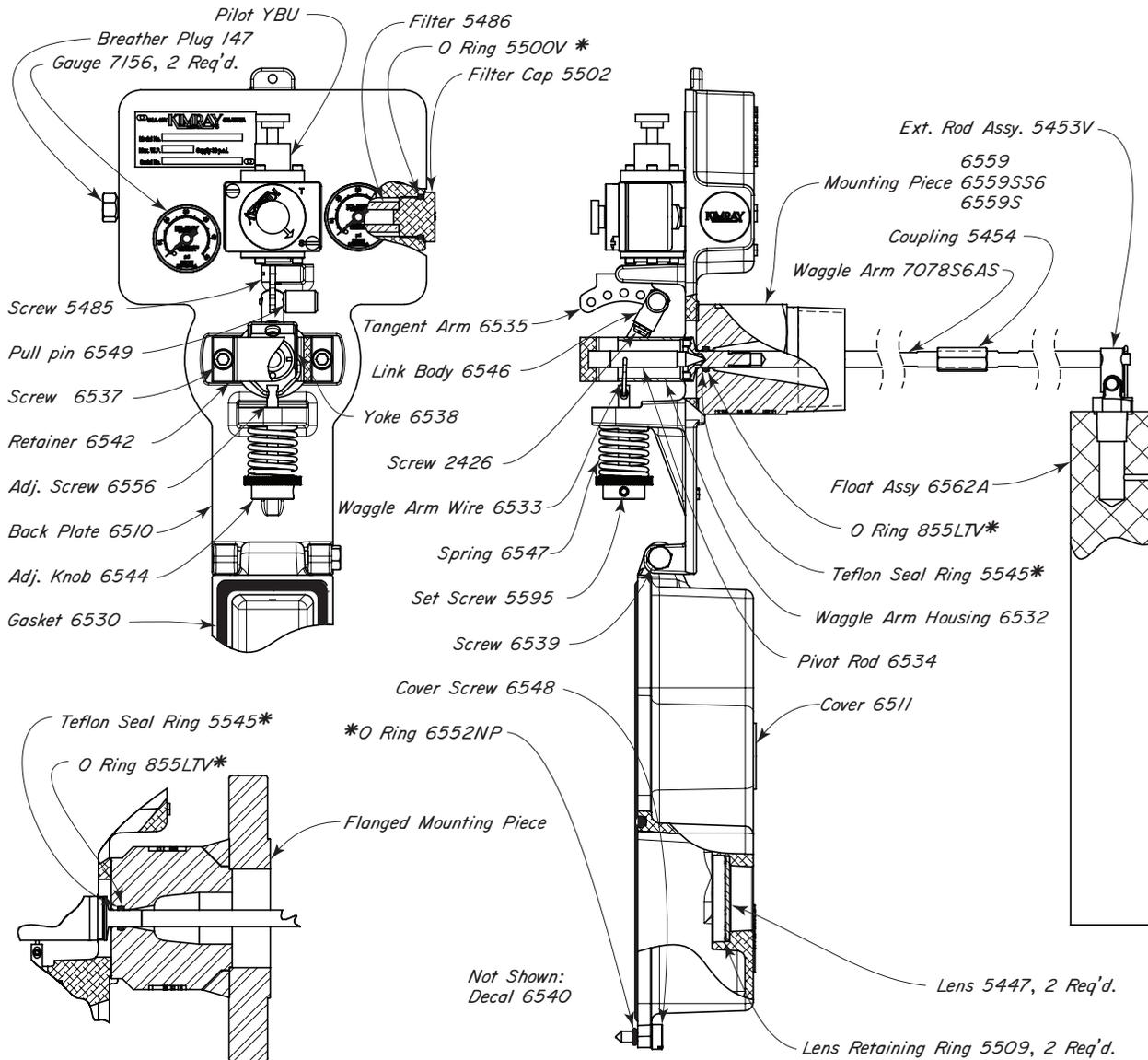


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FLOAT OPERATED LEVEL CONTROLLER



GEN II BACK MOUNT
LCC, SS6 STEEL BODY



CONTROLLERS AVAILABLE:

PART NO.	BODY CONNECTION	MODEL NO.	SUPPLY PRES.	MAX W.P.	REP. KIT
CMMH	2" NPT	GEN II LLC HORIZ	0-30	4000	RMG
CMM	2" NPT	GEN II LLC VERT	0-30	4000	RMG
CMY	2" NPT S6	GEN II LLC VERT	0-30	4000	RMG
CQO	2" NPT	GEN II LLC VERT HANG	0-30	4000	RMG
CMX	2" NPT STL	GEN II LLC VERT	0-30	4000	RMG

NOTES:

*These parts are recommended spare parts and are stocked as repair kits.

For optional Bodies, Float Assemblies & Float cages see Accessories on pages C1:40.1 - C1:40.6

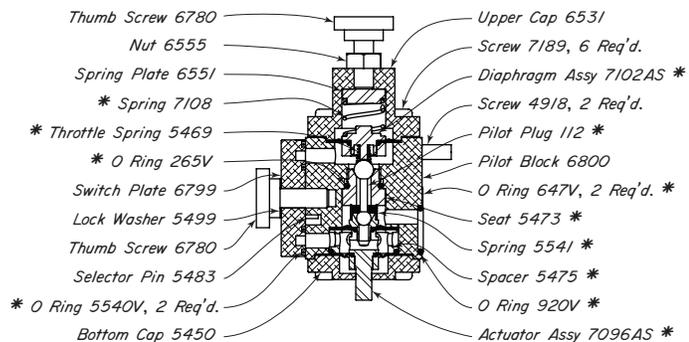
For standard & optional Seals, Metals, Material specifications & Dimensions see Technical Data on pages C1:1 - C1:V

†† Working Pressure based on -20°F to 100°F operating temperature. See page C1:VI for temps above 100°F

C1:20.2
Issued 6/15

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YBU PILOTS 30 psig MAX W.P.



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Current Revision:
Page Redesign

APPLICATIONS:

Liquid level controller for oil and gas separators, water knock-outs, gas scrubbers and accumulators.

Liquid interface control in fluids of 0.20 minimum differential specific gravities with the standard displacer. Other displacers are available to control liquid interface to 0.10 minimum specific gravities.

FEATURES:

- Compact design
- Snap Action
- NACE MR0175 compliant Wetted Parts
 - Certification documents Available upon request, specify when ordering
- Low Temp Process Seal (Std.) (-50°F to 300°F)
- Powder coated enclosure
- Vibration tough
- PVC Displacer (Std.) (4000 psi, 175°F);
- 316 SS Displacer (1500 psi, 350°F)
- Adjustment knob snap range (Patent Pending)
- 2 NAMURs Sensor (Intrinsically Safe, Class I Div 1)
- Type 3r Enclosure

POWER SPECS (6841 I.S. BARRIER):

- 10-30 VDC, ≤ 1.5W (Intrinsically Safe Barrier, Class I Div 2)
- Barrier output Relay Contacts: ≤ 2A @ 250 VAC / 120 VDC

OPERATION:

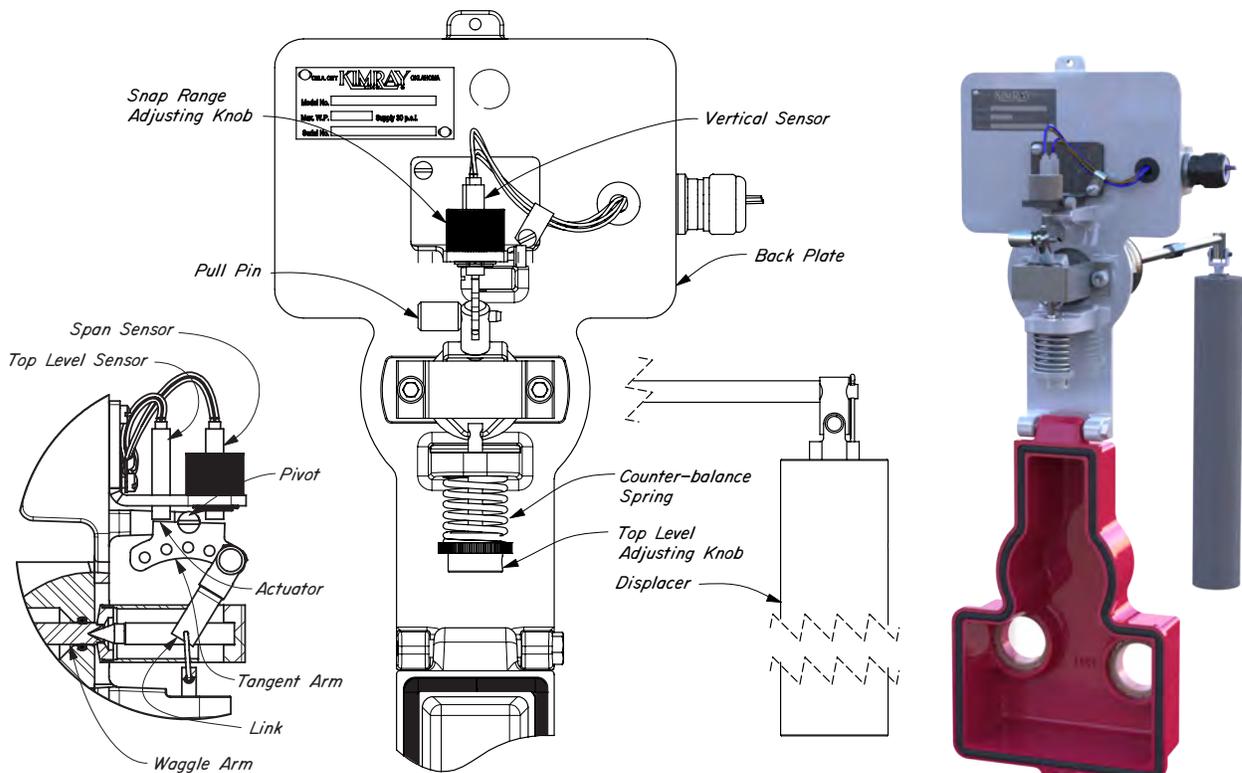
The GEN II Electronic Back Mount Liquid Level Controller consists of a DISPLACER for monitoring the changing liquid level, a SPRING for counterbalancing the weight of the DISPLACER, a WAGGLE ARM to transmit DISPLACER movement, a BACK PLATE upon which the controller mechanism is mounted, a LINK a TANGENT ARM for setting the pilot sensitivity, a SNAP RANGE ADJUSTING KNOB for setting liquid level spans, and 2 NAMUR SENSORS.

The PULL PIN is placed in the outer most hole of the TANGENT ARM right of the PIVOT. As the vessel liquid rises to partially submerge the DISPLACER. The displaced volume of liquid causes the counterbalance spring to exert a downward force at the end of the WAGGLE ARM HOUSING. The resulting downward movement of the LINK moves the TANGENT ARM upward toward the TOP LEVEL SENSOR until the TOP LEVEL SENSOR activates.

As the vessel liquid lowers, the DISPLACER compresses the COUNTERBALANCE SPRING. The WAGGLE ARM transmits the action through the linkage to the TANGENT ARM. The TANGENT ARM continues to move until the SNAP SENSOR activates.

The SNAP RANGE ADJUSTING KNOB can be turned to increase or decrease the SNAP RANGE from 2" to 9" in water. Turning the KNOB clockwise will increase the SNAP RANGE.

The SENSOR leads are wired to a Class I Div 2 IS barrier for output to a controller such as a RTU, PLC, etc.

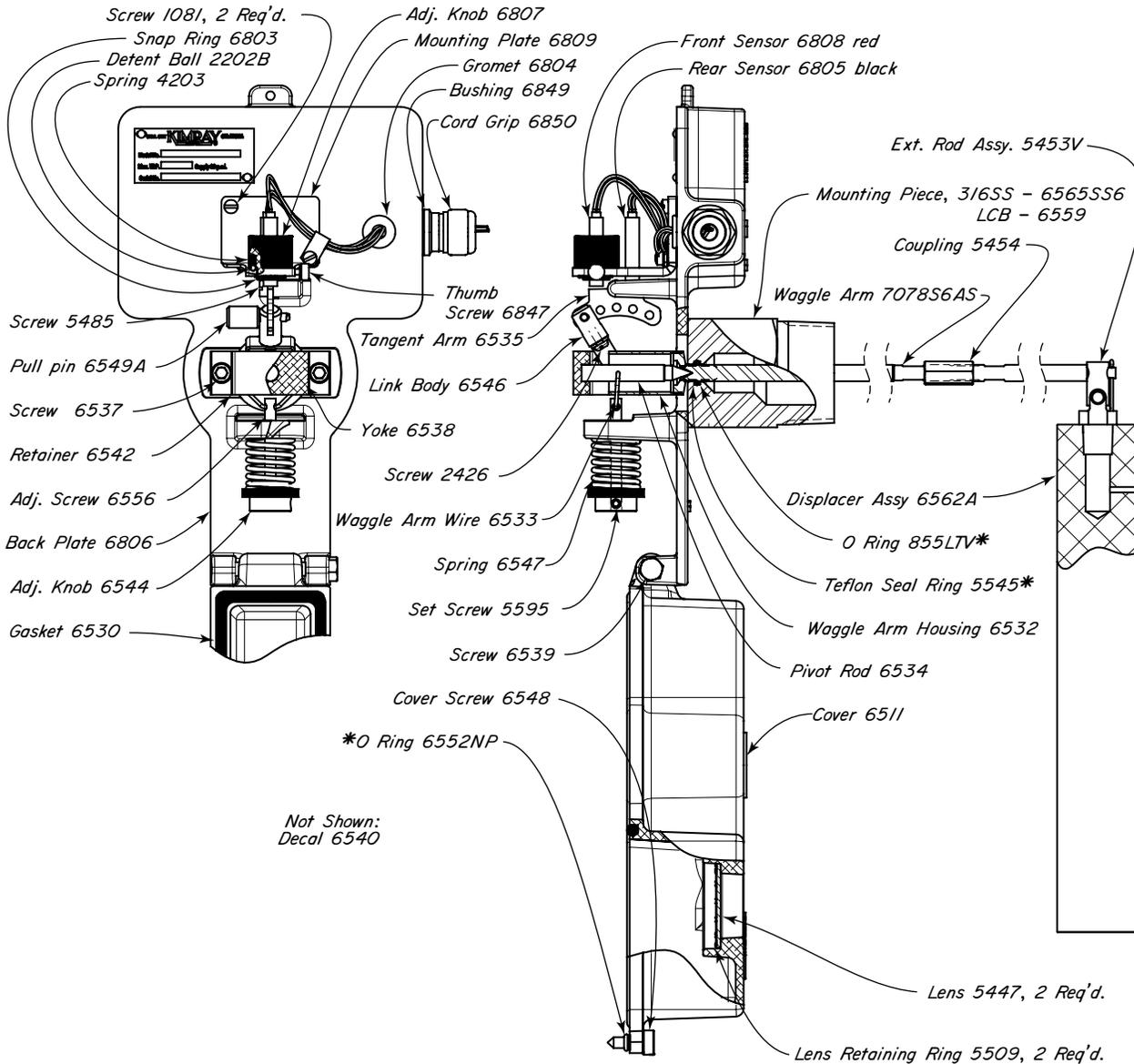


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FLOAT OPERATED LEVEL CONTROLLER



GEN II ELECTRONIC BACK MOUNT LCC, SS6 STEEL BODY



CONTROLLERS AVAILABLE:

PART NO.	BODY CONNECTION	MODEL NO.	SUPPLY PRES.	MAX ^{††} W.P.	REP. KIT
CMME	2" NPT LCB	GEN II EBM LLC VERT	0-30	4000	RMG
CMMEH	2" NPT LCB	GEN II EBM LLC HORIZ	0-30	4000	RMG
CMMES6B	2" NPT SS6	GEN II EBMLLC VERT	0-30	4000	RMG
CMMES6F	2" NPT LCB	GEN II EBM LLC VERT	0-30	1500	RMG
CMMES6BF	2" NPT SS6	GEN II EBMLLC VERT	0-30	1500	RMG

INCLUDED ACCESSORIES:

SUFFIX	DESCRIPTION
---	I.S. Barrier and 20' cables
L50	I.S. Barrier and 50' cables
L100	I.S. Barrier and 100' cables

C1:30.2
Issued 6/15

NOTES:

*These parts are recommended spare parts and are stocked as repair kits.

For optional Bodies, Float Assemblies & Float cages see Accessories on pages C1:40.1 - C1:40.6

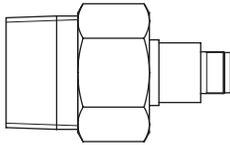
For standard & optional Seals, Metals, Material specifications & Dimensions see Technical Data on pages C1:I - C1:V

†† Working Pressure based on -20°F to 100°F operating temperature. See page C1:VI for temps above 100°F

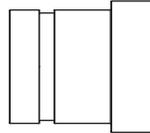
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Current Revision:
Page Redesign

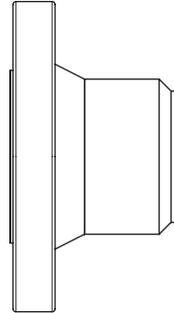
2" NPT (STD)



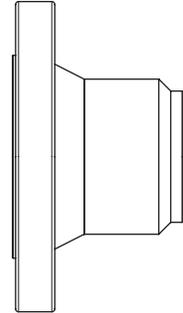
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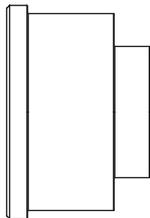
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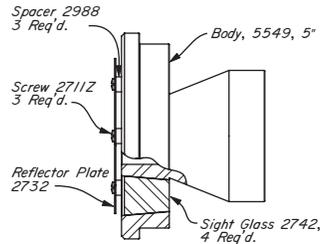
RTJ FLANGED



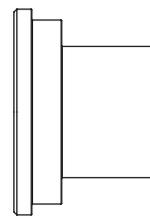
HAMMER UNION



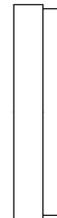
HAMMER UNION
(w/Sight Glass)



HAMMER UNION
(w/o Sight Glass)



ADAPTER



PART NO.	BODY	MAX. W.P. @ 100° F
5528	2" NPT GEN II	4000
5528S6	2" NPT GEN II SS6	4000
5548	2" GRV. GEN II	2000
5562	2" 150 RF GEN II	285
5563	2" 300 RF GEN II	740
5564	2" 600 RF GEN II	1480
5565	2" 900/1500 RF GEN II	2220
5566	2" 150 RTJ GEN II	285
5567	2" 300 RTJ GEN II	740
5568	2" 600 RTJ GEN II	1480
5569	2" 1500 RTJ GEN II	3705
5570	3" 150 RF GEN II	285
5555	3" 300 RF GEN II	740
5571	3" 600 RF GEN II	1480
5572	3" 900 RF GEN II	2220

PART NO.	BODY	MAX. W.P. @ 100° F
6414	3" 1500 RF GEN II	3705
5573	3" 600 RTJ GEN II	1480
5574	3" 900 RTJ GEN II	2220
5558	3" H.U. w/o SG GEN II UN	3000
5575	4" 150 RF GEN II	285
5576	4" 300 RF GEN II	740
5577	4" 600 RF GEN II	1480
5578	4" 600 RTJ GEN II	1480
5579	4" 1500 RF GEN II	3705
5551	4" H.U. w/o SG	1500
2174	4" GRV. X 2" NPT ADAPTER	2000
5549A	5" H.U. w/SG GEN II UN	1000
5552	5" H.U. w/o SG GEN II UN	1500
5580	6" 1500 RF GEN II	3705

FLOAT OPERATED LEVEL CONTROLLER



GEN II
FLANGED BODY OPTIONS.

PNEUMATIC - LEFT HAND SIDE MOUNT						
PART NO.	BODY CONNECTION	MODEL NO	SUPPLY PRES.	MAX W.P. @ 100°F	REP. KIT	MOUNTING PIECE
CND	2" 150RF	GEN II LLC LH HORIZ	0-30	285	RMD	5562
CNB	2" 150RF	GEN II LLC LH VERT	0-30	285	RMD	5562
COC	2" 150RF	GEN II LLC LH VERT WITH HANGER	0-30	285	RMD	5562
CRN	2" 150RTJ	GEN II LLC LH HORIZ	0-30	285	RMD	5566
CRL	2" 150RTJ	GEN II LLC LH VERT	0-30	285	RMD	5566
CNH	2" 300RF	GEN II LLC LH HORIZ	0-30	740	RMD	5563
CNF	2" 300RF	GEN II LLC LH VERT	0-30	740	RMD	5563
CRR	2" 300RTJ	GEN II LLC LH HORIZ	0-30	740	RMD	5567
CRP	2" 300RTJ	GEN II LLC LH VERT	0-30	740	RMD	5567
CNL	2" 600RF	GEN II LLC LH HORIZ	0-30	1480	RMD	5564
CNJ	2" 600RF	GEN II LLC LH VERT	0-30	1480	RMD	5564
CRV	2" 600RTJ	GEN II LLC LH HORIZ	0-30	1480	RMD	5568
CRT	2" 600RTJ	GEN II LLC LH VERT	0-30	1480	RMD	5568
CNP	2" 900/1500RF	GEN II LLC LH HORIZ	0-30	2220	RMD	5565
CNN	2" 900/1500RF	GEN II LLC LH VERT	0-30	2220	RMD	5565
CRZ	2" 1500RTJ	GEN II LLC LH HORIZ	0-30	3705	RMD	5569
CRX	2" 1500RTJ	GEN II LLC LH VERT	0-30	3705	RMD	5569
CNT	3" 150RF	GEN II LLC LH HORIZ	0-30	285	RMD	5570
CNR	3" 150RF	GEN II LLC LH VERT	0-30	285	RMD	5570
CNX	3" 300RF	GEN II LLC LH HORIZ	0-30	740	RMD	5555
CNV	3" 300RF	GEN II LLC LH VERT	0-30	740	RMD	5555
COB	3" 600RF	GEN II LLC LH HORIZ	0-30	1480	RMD	5571
CNZ	3" 600RF	GEN II LLC LH VERT	0-30	1480	RMD	5571
CSD	3" 600RTJ	GEN II LLC LH HORIZ	0-30	1480	RMD	5573
CSB	3" 600RTJ	GEN II LLC LH VERT	0-30	1480	RMD	5573
COG	3" 900RF	GEN II LLC LH HORIZ	0-30	2220	RMD	5572
COE	3" 900RF	GEN II LLC LH VERT	0-30	2220	RMD	5572
CSH	3" 900RTJ	GEN II LLC LH HORIZ	0-30	2220	RMD	5574
CSF	3" 900RTJ	GEN II LLC LH VERT	0-30	2220	RMD	5574
CPT	3" 1500RF	GEN II LLC LH HORIZ	0-30	3705	RMD	6414
CPR	3" 1500RF	GEN II LLC LH VERT	0-30	3705	RMD	6414
CWE	3" Hammer Union	GEN II LLC LH VERT W/O SIGHT GLASS W/ THREAD 4 1/2" - 4 ACME	0-30	3000	RMD	5558
COK	4" 150RF	GEN II LLC LH HORIZ	0-30	285	RMD	5575
COI	4" 150RF	GEN II LLC LH VERT	0-30	285	RMD	5575
COO	4" 300RF	GEN II LLC LH HORIZ	0-30	740	RMD	5576
COM	4" 300RF	GEN II LLC LH VERT	0-30	740	RMD	5576
COS	4" 600RF	GEN II LLC LH HORIZ	0-30	1480	RMD	5577
COQ	4" 600RF	GEN II LLC LH VERT	0-30	1480	RMD	5577
CSL	4" 600RTJ	GEN II LLC LH HORIZ	0-30	1480	RMD	5578
CSJ	4" 600RTJ	GEN II LLC LH VERT	0-30	1480	RMD	5578
CTY	4" 900RF	GEN II LLC LH VERT	0-30	2220	RMD	7184
CPX	4" 1500RF	GEN II LLC LH HORIZ	0-30	3705	RMD	5579
CPV	4" 1500RF	GEN II LLC LH VERT	0-30	3705	RMD	5579
CTV	4" Hammer Union	GEN II LLC LH VERT W/O SIGHT GLASS W/ 4 1/2" - 8 UN-2B THREAD	0-30	1500	RMD	5551
COZ	4" Hammer Union	GEN II LLC LH VERT W/O SIGHT GLASS W/ THREAD 4 1/2" - 6 ACME -2G	0-30	1500	RMD	5551
CWF	5" Hammer Union	GEN II LLC LH HORIZ W/ SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1000	RMD	5549
CWB	5" Hammer Union	GEN II LLC LH VERT W/ SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1000	RMD	5549
CRB	6" 1500RF	GEN II LLC LH HORIZ	0-30	3705	RMD	5580
CPZ	6" 1500RF	GEN II LLC LH VERT	0-30	3705	RMD	5580

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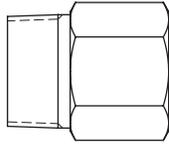
PNEUMATIC - RIGHT HAND SIDE MOUNT						
PART NO.	BODY CONNECTION	MODEL NO	SUPPLY PRES.	MAX W.P. @ 100°F	REP. KIT	MOUNTING PIECE
CNC	2" 150RF	GEN II LLC RH HORIZ	0-30	285	RMD	5562
CNA	2" 150RF	GEN II LLC RH VERT	0-30	285	RMD	5562
CRM	2" 150RTJ	GEN II LLC RH HORIZ	0-30	285	RMD	5566
CRK	2" 150RTJ	GEN II LLC RH VERT	0-30	285	RMD	5566
CNG	2" 300RF	GEN II LLC RH HORIZ	0-30	740	RMD	5563
CNE	2" 300RF	GEN II LLC RH VERT	0-30	740	RMD	5563
CRQ	2" 300RTJ	GEN II LLC RH HORIZ	0-30	740	RMD	5567
CRO	2" 300RTJ	GEN II LLC RH VERT	0-30	740	RMD	5567
CNK	2" 600RF	GEN II LLC RH HORIZ	0-30	1480	RMD	5564
CNI	2" 600RF	GEN II LLC RH VERT	0-30	1480	RMD	5564
CRU	2" 600RTJ	GEN II LLC RH HORIZ	0-30	1480	RMD	5568
CRS	2" 600RTJ	GEN II LLC RH VERT	0-30	1480	RMD	5568
CNO	2" 900/1500RF	GEN II LLC RH HORIZ	0-30	2220	RMD	5565
CNM	2" 900/1500RF	GEN II LLC RH VERT	0-30	2220	RMD	5565
CRY	2" 1500RTJ	GEN II LLC RH HORIZ	0-30	3705	RMD	5569
CRW	2" 1500RTJ	GEN II LLC RH VERT	0-30	3705	RMD	5569
CTS	2" Grooved	GEN II LLC RH VERT	0-30	2000	RMD	5548
CNS	3" 150RF	GEN II LLC RH HORIZ	0-30	285	RMD	5570
CNQ	3" 150RF	GEN II LLC RH VERT	0-30	285	RMD	5570
CNW	3" 300RF	GEN II LLC RH HORIZ	0-30	740	RMD	5555
CNU	3" 300RF	GEN II LLC RH VERT	0-30	740	RMD	5555
COA	3" 600RF	GEN II LLC RH HORIZ	0-30	1480	RMD	5571
CNY	3" 600RF	GEN II LLC RH VERT	0-30	1480	RMD	5571
CSC	3" 600RTJ	GEN II LLC RH HORIZ	0-30	1480	RMD	5573
CSA	3" 600RTJ	GEN II LLC RH VERT	0-30	1480	RMD	5573
COF	3" 900RF	GEN II LLC RH HORIZ	0-30	2220	RMD	5572
COD	3" 900RF	GEN II LLC RH VERT	0-30	2220	RMD	5572
CSG	3" 900RTJ	GEN II LLC RH HORIZ	0-30	2220	RMD	5574
CSE	3" 900RTJ	GEN II LLC RH VERT	0-30	2220	RMD	5574
CPS	3" 1500RF	GEN II LLC RH HORIZ	0-30	3705	RMD	6414
CPO	3" 1500RF	GEN II LLC RH VERT	0-30	3705	RMD	6414
COJ	3" Hammer Union	GEN II LLC RH VERT W/O SIGHT GLASS W/ THREAD 4 1/2" - 4 ACME	0-30	3000	RMD	5558
COJ	4" 150RF	GEN II LLC RH HORIZ	0-30	285	RMD	5575
COH	4" 150RF	GEN II LLC RH VERT	0-30	285	RMD	5575
CON	4" 300RF	GEN II LLC RH HORIZ	0-30	740	RMD	5576
COL	4" 300RF	GEN II LLC RH VERT	0-30	740	RMD	5576
COR	4" 600RF	GEN II LLC RH HORIZ	0-30	1480	RMD	5577
COP	4" 600RF	GEN II LLC RH VERT	0-30	1480	RMD	5577
CSK	4" 600RTJ	GEN II LLC RH HORIZ	0-30	1480	RMD	5578
CSI	4" 600RTJ	GEN II LLC RH VERT	0-30	1480	RMD	5578
CWG	4" 900RF	GEN II LLC RH VERT	0-30	2220	RMD	7184
CPW	4" 1500RF	GEN II LLC RH HORIZ	0-30	3705	RMD	5579
CPU	4" 1500RF	GEN II LLC RH VERT	0-30	3705	RMD	5579
CTT	4" Hammer Union	GEN II LLC RH VERT W/O SIGHT GLASS W/ 4 1/2" - 8 UN-2B THREAD	0-30	1500	RMD	5551
COY	4" Hammer Union	GEN II LLC RH VERT W/O SIGHT GLASS W/ THREAD 4 1/2" - 6 ACME -2G	0-30	1500	RMD	5551
CWD	5" Hammer Union	GEN II LLC RH HORIZ W/ SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1000	RMD	5549
CWA	5" Hammer Union	GEN II LLC RH VERT W/ SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1000	RMD	5549
CWC	5" Hammer Union	GEN II LLC RH VERT W/O SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1500	RMD	5552
CRA	6" 1500RF	GEN II LLC RH HORIZ	0-30	3705	RMD	5580
CPY	6" 1500RF	GEN II LLC RH VERT	0-30	3705	RMD	5580

NOTES:

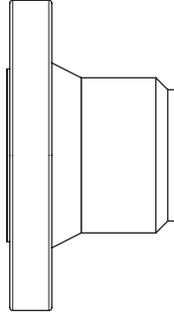


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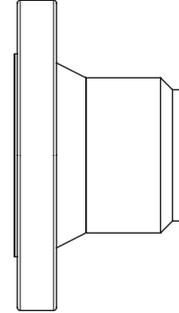
2" NPT (STD)



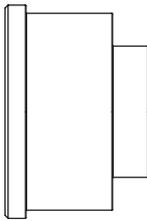
RF FLANGED



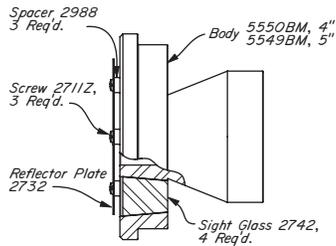
RTJ FLANGED



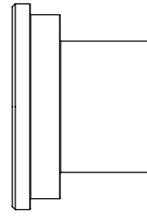
HAMMER UNION



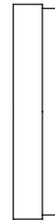
HAMMER UNION (w/Sight Glass)



HAMMER UNION (w/o Sight Glass)



ADAPTER



PART NO.	BODY	MAX. W.P. @ 100° F
6559	2" NPT GEN II	4000
6559SS6	2" NPT GEN II SS6	4000
5562BM	2" 150 RF GEN II	285
5563BM	2" 300 RF GEN II	740
5564BM	2" 600 RF GEN II	1480
5565BM	2" 900/1500 RF GEN II	2220
5566BM	2" 150 RTJ GEN II	285
5567BM	2" 300 RTJ GEN II	740
5568BM	2" 600 RTJ GEN II	1480
5569BM	2" 1500 RTJ GEN II	3705
5570BM	3" 150 RF GEN II	285
5555BM	3" 300 RF GEN II	740
5571BM	3" 600 RF GEN II	1480
5572BM	3" 900 RF GEN II	2220

PART NO.	BODY	MAX. W.P. @ 100° F
6414BM	3" 1500 RF GEN II	3705
5573BM	3" 600 RTJ GEN II	1480
5574BM	3" 900 RTJ GEN II	2220
5558BM	3" H.U. w/o SG GEN II UN	3000
5575BM	4" 150 RF GEN II	285
5576BM	4" 300 RF GEN II	740
5577BM	4" 600 RF GEN II	1480
5578BM	4" 600 RTJ GEN II	1480
5579BM	4" 1500 RF GEN II	3705
5550ABM	4" H.U. w/SG	1000
5551BM	4" H.U. w/o SG	1500
2174	4" GRV. X 2" NPT ADAPTER	2000
5549ABM	5" H.U. w/SG GEN II UN	1000
5552BM	5" H.U. w/o SG GEN II UN	1500
5580BM	6" 1500 RF GEN II	3705

FLOAT OPERATED LEVEL CONTROLLER

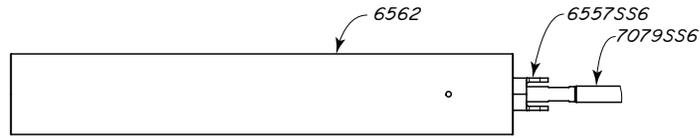


GEN II

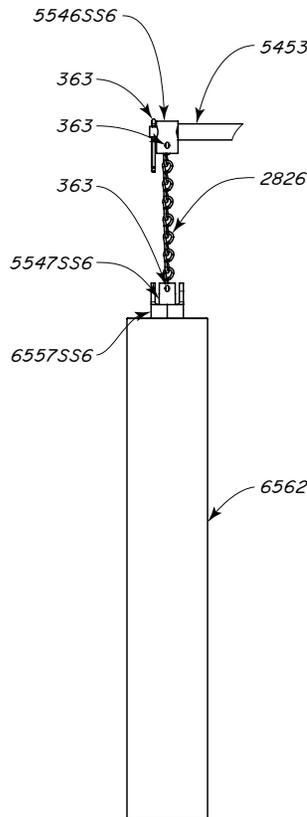
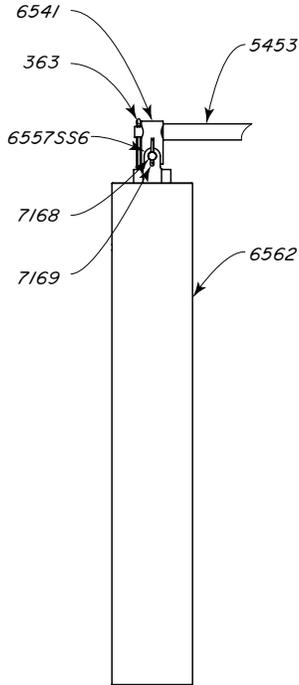
FLANGED BODY OPTIONS.

PART NO.	BODY CONNECTION	MODEL NO	SUPPLY PRES.	MAX W.P. @ 100°F	REP. KIT	MOUNTING PIECE
PNEUMATIC - BACK MOUNT						
COU	2" 150RF	GEN II BM LLC HORIZ	0-30	285	RMG	5562BM
COT	2" 150RF	GEN II BM LLC VERT	0-30	285	RMG	5562BM
CSV	2" 150RTJ	GEN II BM LLC HORIZ	0-30	285	RMG	5566BM
CSU	2" 150RTJ	GEN II BM LLC VERT	0-30	285	RMG	5566BM
COW	2" 300RF	GEN II BM LLC HORIZ	0-30	740	RMG	5563BM
COV	2" 300RF	GEN II BM LLC VERT	0-30	740	RMG	5563BM
CSX	2" 300RTJ	GEN II BM LLC HORIZ	0-30	740	RMG	5567BM
CSW	2" 300RTJ	GEN II BM LLC VERT	0-30	740	RMG	5567BM
COY	2" 600RF	GEN II BM LLC HORIZ	0-30	1480	RMG	5564BM
COX	2" 600RF	GEN II BM LLC VERT	0-30	1480	RMG	5564BM
CSZ	2" 600RTJ	GEN II BM LLC HORIZ	0-30	1480	RMG	5568BM
CSY	2" 600RTJ	GEN II BM LLC VERT	0-30	1480	RMG	5568BM
CPA	2" 900/1500RF	GEN II BM LLC HORIZ	0-30	2220	RMG	5565BM
COZ	2" 900/1500RF	GEN II BM LLC VERT	0-30	2220	RMG	5565BM
CTB	2" 1500RTJ	GEN II BM LLC HORIZ	0-30	3705	RMG	5569BM
CTA	2" 1500RTJ	GEN II BM LLC VERT	0-30	3705	RMG	5569BM
CPC	3" 150RF	GEN II BM LLC HORIZ	0-30	285	RMG	5570BM
CPB	3" 150RF	GEN II BM LLC VERT	0-30	285	RMG	5570BM
CPE	3" 300RF	GEN II BM LLC HORIZ	0-30	740	RMG	5555BM
CPD	3" 300RF	GEN II BM LLC VERT	0-30	740	RMG	5555BM
CPG	3" 600RF	GEN II BM LLC HORIZ	0-30	1480	RMG	5571BM
CPF	3" 600RF	GEN II BM LLC VERT	0-30	1480	RMG	5571BM
CTD	3" 600RTJ	GEN II BM LLC HORIZ	0-30	1480	RMG	5573BM
CTC	3" 600RTJ	GEN II BM LLC VERT	0-30	1480	RMG	5573BM
CPI	3" 900RF	GEN II BM LLC HORIZ	0-30	2220	RMG	5572BM
CPH	3" 900RF	GEN II BM LLC VERT	0-30	2220	RMG	5572BM
CTF	3" 900RTJ	GEN II BM LLC HORIZ	0-30	2220	RMG	5574BM
CTE	3" 900RTJ	GEN II BM LLC VERT	0-30	2220	RMG	5574BM
CRD	3" 1500RF	GEN II BM LLC HORIZ	0-30	3705	RMG	6414BM
CRC	3" 1500RF	GEN II BM LLC VERT	0-30	3705	RMG	6414BM
CTN	3" Hammer Union	GEN II BM LLC HORIZ W/O SIGHT GLASS W/ Thread 4 1/2" - 4 ACME	0-30	3000	RMG	5558BM
CST	4" Hammer Union	GEN II BM LLC VERT W/O SIGHT GLASS W/ Thread 4 1/2" - 4 ACME	0-30	3000	RMG	5558BM
CPK	4" 150RF	GEN II BM LLC HORIZ	0-30	285	RMG	5575BM
CPJ	4" 150RF	GEN II BM LLC VERT	0-30	285	RMG	5575BM
CPM	4" 300RF	GEN II BM LLC HORIZ	0-30	740	RMG	5576BM
CPL	4" 300RF	GEN II BM LLC VERT	0-30	740	RMG	5576BM
CPO	4" 600RF	GEN II BM LLC HORIZ	0-30	1480	RMG	5577BM
CPN	4" 600RF	GEN II BM LLC VERT	0-30	1480	RMG	5577BM
CTH	4" 600RTJ	GEN II BM LLC HORIZ	0-30	1480	RMG	5578BM
CTG	4" 600RTJ	GEN II BM LLC VERT	0-30	1480	RMG	5578BM
CTJ	4" 900RTJ	GEN II BM LLC HORIZ	0-30	2220	RMG	5600BM
CTI	4" 900RTJ	GEN II BM LLC VERT	0-30	2220	RMG	5600BM
CRF	4" 1500RF	GEN II BM LLC HORIZ	0-30	3705	RMG	5579BM
CRE	4" 1500RF	GEN II BM LLC VERT	0-30	3705	RMG	5579BM
CTL	4" 1500RTJ	GEN II BM LLC HORIZ	0-30	3705	RMG	5600BM
CTK	4" 1500RTJ	GEN II BM LLC VERT	0-30	3705	RMG	5600BM
CSO	4" Hammer Union	GEN II BM LLC HORIZ W/ SIGHT GLASS W/ Thread 4 1/2" - 6 ACME -2G	0-30	1000	RMG	5550BM
CSS	4" Hammer Union	GEN II BM LLC HORIZ W/ SIGHT GLASS W/ 4 1/2" - 8 UN-2B THREAD	0-30	1000	RMG	5550BM
CSN	4" Hammer Union	GEN II BM LLC VERT W/ SIGHT GLASS W/ Thread 4 1/2" - 6 ACME -2G	0-30	1000	RMG	5550BM
CSR	4" Hammer Union	GEN II BM LLC VERT W/ SIGHT GLASS W/ 4 1/2" - 8 UN-2B THREAD	0-30	1000	RMG	5550BM
CSM	4" Hammer Union	GEN II BM LLC HORIZ W/O SIGHT GLASS W/ Thread 4 1/2" - 6 ACME -2G	0-30	1500	RMG	5551BM
CSQ	4" Hammer Union	GEN II BM LLC HORIZ W/O SIGHT GLASS W/ 4 1/2" - 8 UN-2B THREAD	0-30	1500	RMG	5551BM
CPP	4" Hammer Union	GEN II BM LLC VERT W/O SIGHT GLASS W/ Thread 4 1/2" - 6 ACME -2G	0-30	1500	RMG	5551BM
CSP	4" Hammer Union	GEN II BM LLC VERT W/O SIGHT GLASS W/ 4 1/2" - 8 UN-2B THREAD	0-30	1500	RMG	5551BM
CTR	5" Hammer Union	GEN II BM LLC HORIZ W/ SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1000	RMG	5549BM
CTQ	5" Hammer Union	GEN II BM LLC VERT W/ SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1000	RMG	5549BM
CTP	5" Hammer Union	GEN II BM LLC HORIZ W/O SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1500	RMG	5552BM
CTO	5" Hammer Union	GEN II BM LLC VERT W/O SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1500	RMG	5552BM
CTU	5" Hammer Union	GEN II BM LLC VERT W/O SIGHT GLASS W/ 5 5/8" - 4-ACME-2G	0-30	1500	RMG	5552BM
CRH	6" 600RF	GEN II BM LLC HORIZ	0-30	1480	RMG	6605BM
CRG	6" 600RF	GEN II BM LLC VERT	0-30	1480	RMG	6605BM
CRJ	6" 1500RF	GEN II BM LLC HORIZ	0-30	3705	RMG	5580BM
CRI	6" 1500RF	GEN II BM LLC VERT	0-30	3705	RMG	5580BM
ELECTRIC - BACK MOUNT						
COUE	2" 150RF	GEN II BEM LLC HORIZ	0-30	285	RMG	5562BM
COTE	2" 150RF	GEN II EBM LLC VERT	0-30	285	RMG	5562BM
CPBE	3" 150RF	GEN II EBM LLC VERT	0-30	285	RMG	5570BM
CPJE	4" 150RF	GEN II EBM LLC VERT	0-30	285	RMG	5575BM
CTQE	5" Hammer Union	GEN II EBM LLC VERT W/ SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1000	RMG	5549BM
CTOE	5" Hammer Union	GEN II EBM LLC VERT W/O SIGHT GLASS W/ 5 1/2" - 6 STD. ACME THD. 2G	0-30	1500	RMG	5552BM
CTUE	5" Hammer Union	GEN II EBM LLC VERT W/O SIGHT GLASS W/ 5 5/8"-4-ACME-2G	0-30	1500	RMG	5552BM

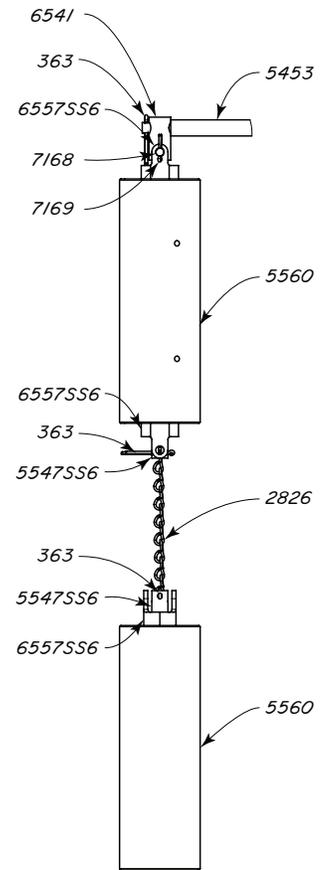
HORIZONTAL (STD.)



VERTICAL



SPLIT FLOAT



* Part 2826 chain comes in 8 foot length

DISPLACERS								
DISPLACER NO.	SIZE	FLOAT WEIGHT	MAX TEMP	SPRING		MAX PSI	MIN. SP. GR.	MATERIAL
				BACK	SIDE			
6562	1 7/8" x 12" LG	1lb 15oz	180°F	6547	5467	4000	>0.20	PVC
6611	1 7/8" x 20" LG	3lb 5oz	180°F	6547L	5557	4000	>0.15	PVC
6606	3" x 12" LG	4lb 5oz	180°F	6547L	5557	4000	>0.1	PVC
6971	2 1/2" x 12" LG	3lb 0.5oz	180°F	6547	5467	4000	>0.15	PVC
5560	1 7/8" x 5 11/16" LG	1lb 15oz total	180°F	6547	5467	4000	>0.20	PVC
5461SS6	1 3/4" x 12" LG	1lb 15oz	500°F	6547	5467	2000	>0.20	316SS
5461SS6L20	1 3/4" x 20" LG	3lb 0oz	500°F	6547	5467	2000	>0.17	316SS

FLOAT OPERATED LEVEL CONTROLLER



GEN II FLOAT ASSEMBLIES AVAILABLE

Config. & Material	Displacer			Arm P/N	Arm Extension		Spring		"Cotter Pin P/N"	"Hanger Block P/N"
	P/N	Diameter	Length		Length	P/N	Back Mount	Side Mount		
Vertical PVC Displacer	6562A	2"	12"	5453	None		6547	5467	363	6541
	6562A	2"	12"	5453	6"	5543L6	6547	5557	363	6541
	6562A	2"	12"	5453	12"	5543L12	6547L	5557	363	6541
	6562A	2"	12"	5453	18"	5543L18	6547L	5557	363	6541
	6611A	2"	20"	5453	None		6547L	5467	363	6541
	6611A	2"	20"	5453	6"	5543L6	6547L	5557	363	6541
	6611A	2"	20"	5453	12"	5543L12	6547L	5557	363	6541
	6611A	2"	20"	5453	18"	5543L18	6547L	5557	363	6541
	6606A	3"	12"	5453	None		6547L	5557	363	6541
	6606A	3"	12"	5453	6"	5543L6	6547L	5557	363	6541
Vertical Stainless Steel Displacer	5461SS6	2"	12"	5453	None		6547	5467	363	6541
	5461SS6	2"	12"	5453	6"	5543L6	6547	5557	363	6541
	5461SS6	2"	12"	5453	12"	5543L12	6547L	5557	363	6541
	5461SS6	2"	12"	5453	18"	5543L18	6547L	5557	363	6541
	5461SS6L20	2"	20"	5453	None		6547L	5467	363	6541
	5461SS6L20	2"	20"	5453	6"	5543L6	6547L	5557	363	6541
	5461SS6L20	2"	20"	5453	12"	5543L12	6547L	5557	363	6541
	5461SS6L20	2"	20"	5453	18"	5543L18	6547L	5557	363	6541

Any vertical displacer can be configured into hanger by adding:
 (1) 2826 Chain, (1) 5546SS6 Hanger Block, (1) 5547SS6 Hanger Screw & (2) 363 Cotter Pins

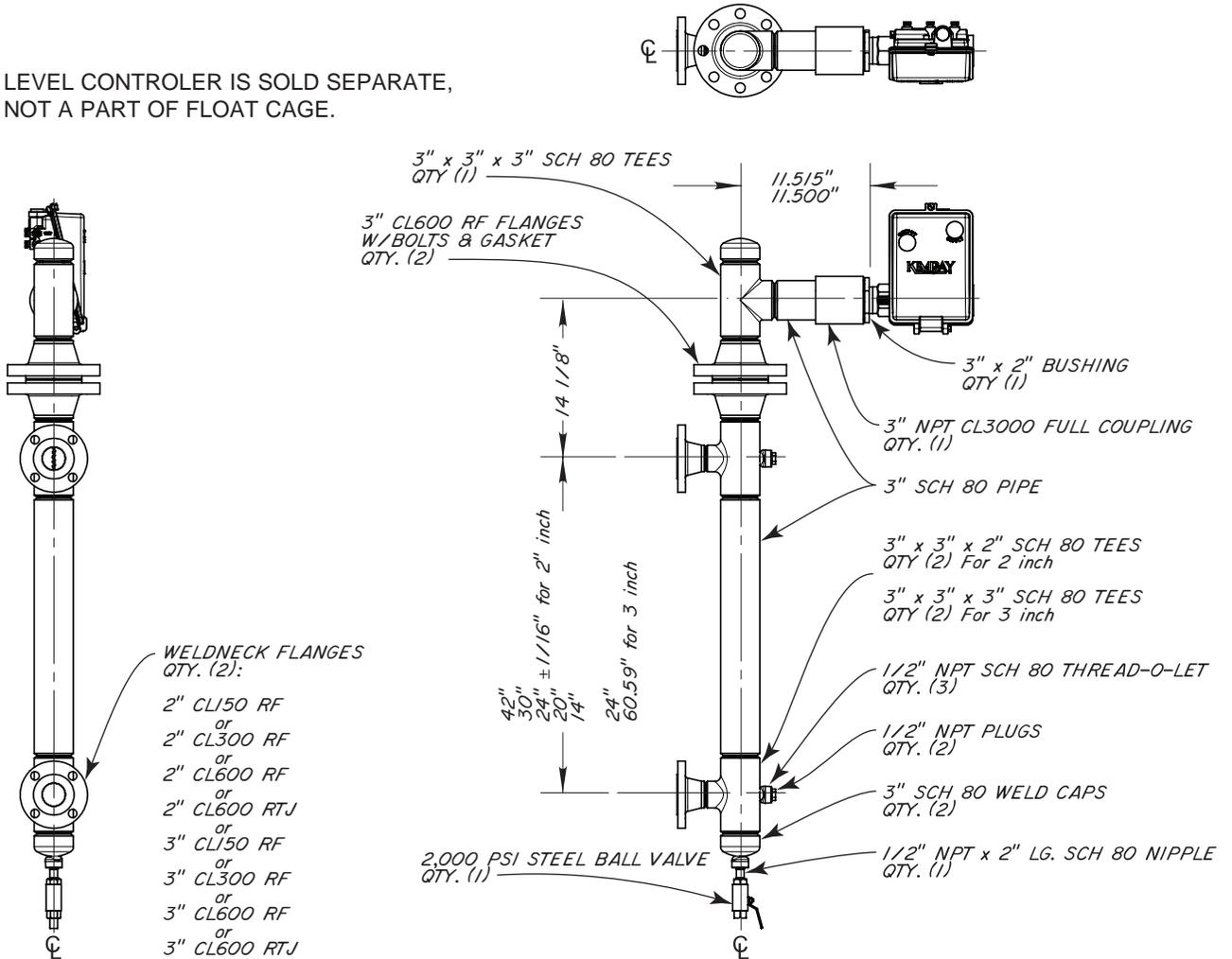
Horizontal PVC Displacer	6562A	2"	12"	N/A	None		6547	5467	N/A	N/A
	6562A	2"	12"	N/A	6"	5543L6	6547	5557	N/A	N/A
	6562A	2"	12"	N/A	12"	5543L12	6547L	5557	N/A	N/A
	6562A	2"	12"	N/A	18"	5543L18	6547L	5557	N/A	N/A
	6611A	2"	20"	N/A	None		6547L	5557	N/A	N/A
	6611A	2"	20"	N/A	6"	5543L6	6547L	5557	N/A	N/A
	6611A	2"	20"	N/A	12"	5543L12	6547L	5557	N/A	N/A
	6611A	2"	20"	N/A	18"	5543L18	6547L	5557	N/A	N/A
	6606A	3"	12"	N/A	None		6547L	5557	N/A	N/A
	6606A	3"	12"	N/A	6"	5543L6	6547L	5557	N/A	N/A
Horizontal Stainless Steel Displacer	5461SS6	2"	12"	N/A	None		6547	5467	N/A	N/A
	5461SS6	2"	12"	N/A	6"	5543L6	6547	5557	N/A	N/A
	5461SS6	2"	12"	N/A	12"	5543L12	6547L	5557	N/A	N/A
	5461SS6	2"	12"	N/A	18"	5543L18	6547L	5557	N/A	N/A
	5461SS6L20	2"	20"	N/A	None		6547L	5557	N/A	N/A
	5461SS6L20	2"	20"	N/A	6"	5543L6	6547L	5557	N/A	N/A
	5461SS6L20	2"	20"	N/A	12"	5543L12	6547L	5557	N/A	N/A

Split Displacer Kit (2"x 6" PVC Displacers linked with Chain.) - P/N: CMP
 Kit comes with everything needed to convert a vertical displacer to a split displacer: (Not available in stainless steel displacers)
 (1) 2826 Chain, (2) 363 Cotter Pins, (2) 5547SS6 Hanger Screws, (2) 5560 PVC Displacers (2" Dia x 6" each) & (3) 6557SS6 Bushings

EXTENSION RODS			SPRING ASSEMBLIES
EXTENSION NO.	LENGTH	POSITION	
CMUL6	6"	Horz	6547L
CMUL12	12"	Horz	6547L
CMUL18	18"	Horz	6547L
CMOL6	6"	Horz	5557
CMOL12	12"	Horz	5557
CMOL18	18"	Horz	5557
6507	1 3/4"	Horz	N/A
5453S	1 1/2"	Vertical	N/A

Kimray is an ISO 9001- certified manufacturer.

LEVEL CONTROLLER IS SOLD SEPARATE,
NOT A PART OF FLOAT CAGE.



VERTICAL EXTERNAL FLOAT CAGES AVAILABLE:

PART NO.	CENTER TO CENTER	LINE SIZE	FLANGE TYPE
CQA150RF	14"	2"	CL150 RF
CQA300RF	14"	2"	CL300 RF
CQA600RF	14"	2"	CL600 RF
CQA600RTJ	14"	2"	CL600 RTJ
CQB150RF	20"	2"	CL150 RF
CQB300RF	20"	2"	CL300 RF
CQB600RF	20"	2"	CL600 RF
CQB600RTJ	20"	2"	CL600 RTJ
CQC150RF	24"	2"	CL150 RF
CQC300RF	24"	2"	CL300 RF
CQC600RF	24"	2"	CL600 RF
CQC600RTJ	24"	2"	CL600 RTJ
CQD150RF	30"	2"	CL150 RF
CQD300RF	30"	2"	CL300 RF
CQD600RF	30"	2"	CL600 RF
CQD600RTJ	30"	2"	CL600 RTJ
CQD900RF	30"	2"	CL900 RF
CQE150RF	42"	2"	CL150 RF
CQE300RF	42"	2"	CL300 RF
CQE600RF	42"	2"	CL600 RF
CQE600RTJ	42"	2"	CL600 RTJ
CQIMOD1	60.59"	3"	CL150 RF
CQIMOD2	42"	3"	CL150 RF
CQIMOD3	15"	3"	CL900 RTJ

NOTES:

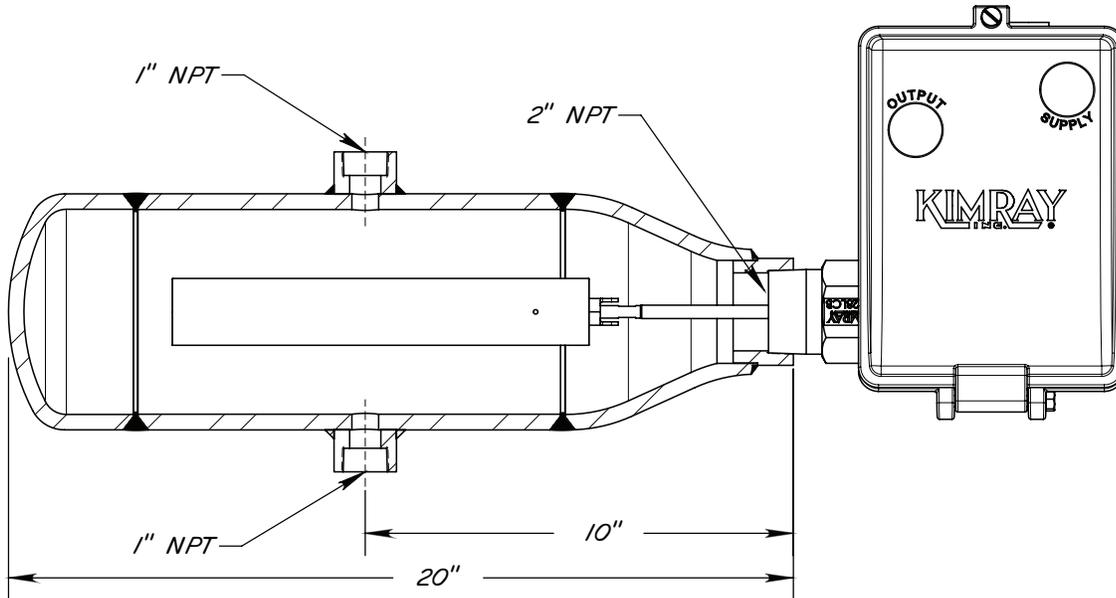
- MAXIMUM WORKING PRESSURE PER FLANGE CLASS
- OPERATING TEMPERATURE -20° - 200° F
- HYDROSTATIC TEST PER ASME SECTION VIII DIV. 1
- CONFORMS TO ASME SECTION VIII, U
- SAND BLAST & PRIMED

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FLOAT OPERATED LEVEL CONTROLLER



HORIZONTAL EXTERNAL FLOAT CAGE
GEN II / STEEL



LEVEL CONTROLLER IS SOLD SEPARATELY

DESIGNED FOR BOTH SIDEMOUNT AND
BACKMOUNT MODELS

HORIZONTAL EXTERNAL FLOAT CAGES AVAILABLE:

PART NO.	DESCRIPTION	MAX W.P.
6411	HORIZONTAL FLOAT CAGE	1500

NOTES:

- HYDROSTATIC TEST PRESSURE 2250 PSIG
- MADE FROM 6" SCH 80 XHY PIPE

Kimray is an ISO 9001- certified manufacturer.

APPLICATIONS:

Senses a specific liquid level and produces electric output.
High or low level control.
Electric output can activate alarms, solenoid valves or other electrically switched devices.

FEATURES:

316 SS Wetted Parts
Sealed Hermetic Reed Switch
SPDT Reed Switch
CSA Certificate #1662451, USA and Canada
Expl. Proof – Class I, Groups A,B,C,D
Class II, Groups E,F,G, Class III
Class I, Zone 1, AExdIIC, ExdIIC
(Stainless steel float only)
Additional seal not required

NEMA4X

Available with manual override for testing.
Minimum Specific Gravity 0.4.
NACE MR0175 compliant Wetted Parts
• Certification documents Available upon request, specify when ordering

ELECTRICAL RATINGS	
STANDARD	0.83A @ 120VAC
	2A @ 50VDC
	3A MAXIMUM
	PWR: 3W MIN, 100W MAX
LOW POWER	0.2A @ 120VAC
	1A @ 25VDC
	1A MAXIMUM
	PWR : 25W MAX

OPERATION:

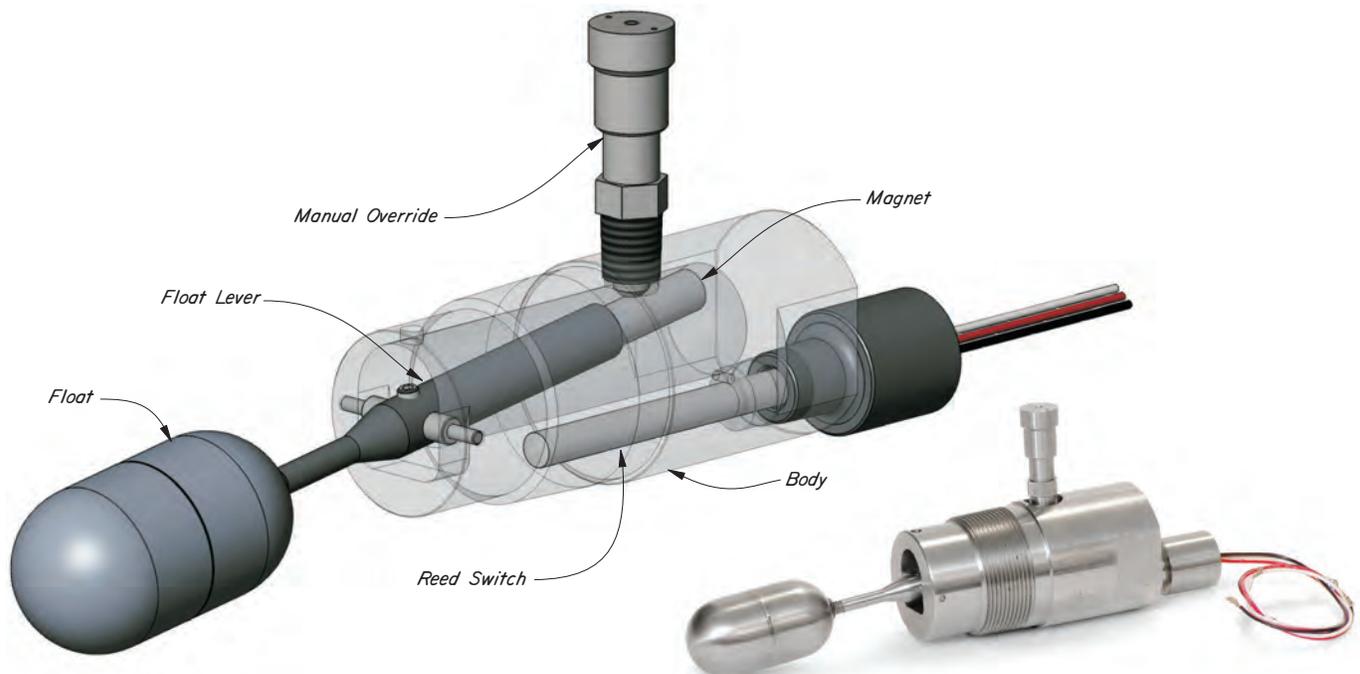
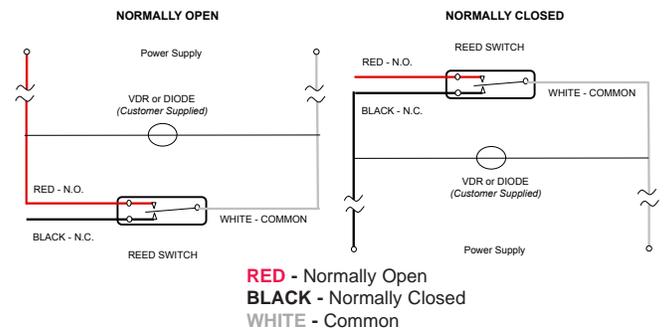
The FLOAT is counterbalanced by the FLOAT LEVER. As the liquid level increases the FLOAT is lifted. A MAGNET in the FLOAT LEVER moves downward and closer to the REED SWITCH which is located in the enclosure in the BODY. This closes the REED SWITCH. As the liquid level decreases the FLOAT moves downward, moving the MAGNET away from the REED SWITCH, causing it to open.

The optional MANUAL OVER RIDE allows the operator to manually activate the FLOAT LEVER to test the switch and the devices it controls.

WIRING INSTRUCTIONS:

Do not exceed the amperage and voltage for the switch. Switch contacts may experience damage in applications using relays, motors, etc. where a power surge or voltage spike may occur during relay engagement or motor startups. For these conditions a shunt path for over-voltage should be installed.

- For **DC** applications:
use an **(1N4001)** or similar diode wired in parallel as shown.
- For **AC** applications:
use a 110 VAC Varistor (**Digi-Key BC1408-ND**) or similar wired in parallel as shown.

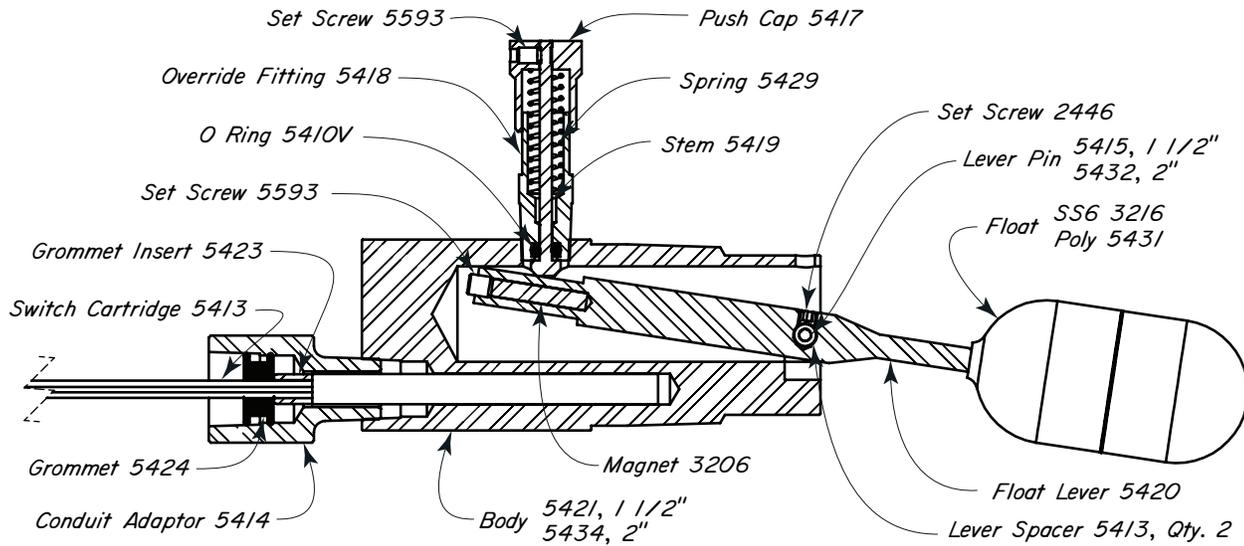


Kimray is an ISO 9001- certified manufacturer.

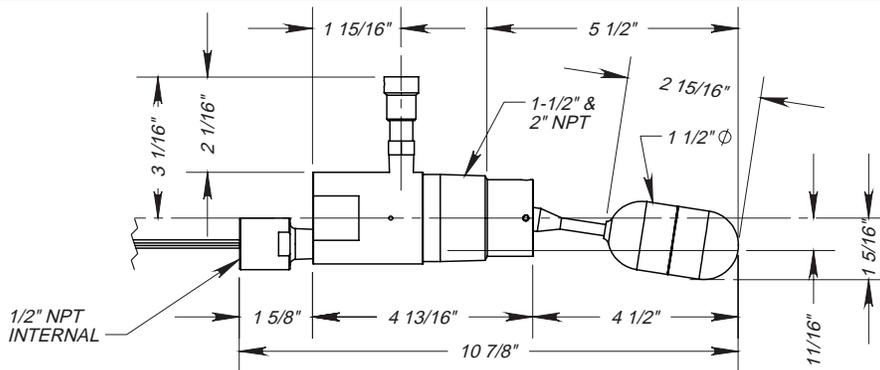
FLOAT OPERATED LEVEL CONTROLLER



ELEC. LEVEL SWITCH (HORIZ.) WITH MANUAL OVERRIDE
STEEL



DIMENSIONS



NOTES:

*These parts are recommended spare parts and are stocked as repair kits.

For optional Float cages see page C1:80.1

For standard & optional Seals, Metals & Material specifications see Technical Data on pages C1:I - C1:V

PART #	ACCESSORIES	QTY.
5418	M/O Assembly	1
5587A	Pull Assembly w/20' Cable	1
5594	Annulus Plug	1

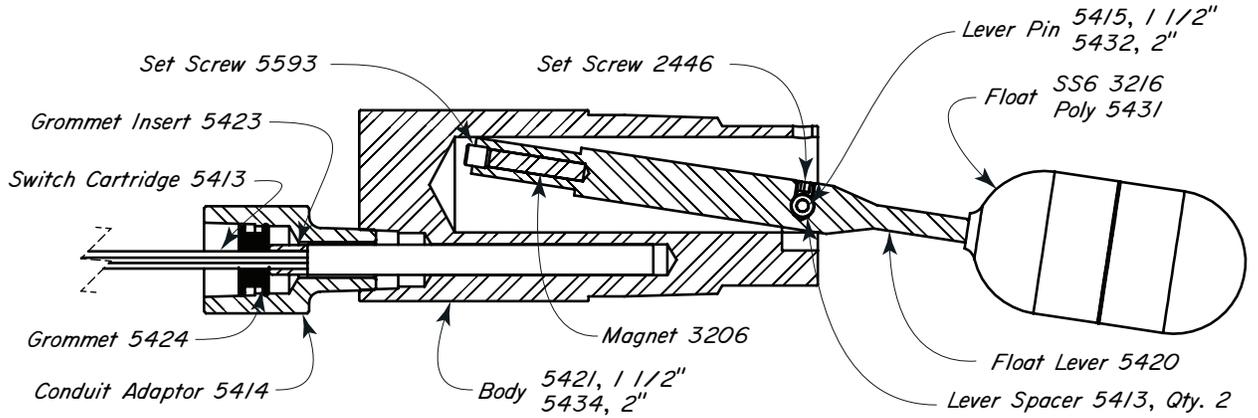
SWITCHES AVAILABLE:

PART NO.	BODY CONNECTION	MODEL NO.	FLOAT	TEMP RANGE	MAX W.P.
CEB2	1/2" NPT	1200 SLS M/O	SS6	-40F to 350F	2000
CEB2PP	1/2" NPT	1200 SLS M/O	HDPE	-40F to 180F	2000
CEB3	1/2" NPT	1200 SLS M/O W/CABLE	SS6	-40F to 350F	2000
CEB3PP	1/2" NPT	1200 SLS M/O W/CABLE	HDPE	-40F to 180F	2000
CEC2	2" NPT	2200 SLS M/O	SS6	-40F to 350F	2000
CEC2PP	2" NPT	2200 SLS M/O	HDPE	-40F to 180F	2000
CEC3	2" NPT	2200 SLS M/O W/CABLE	SS6	-40F to 350F	2000
CEC3PP	2" NPT	2200 SLS M/O W/CABLE	HDPE	-40F to 180F	2000

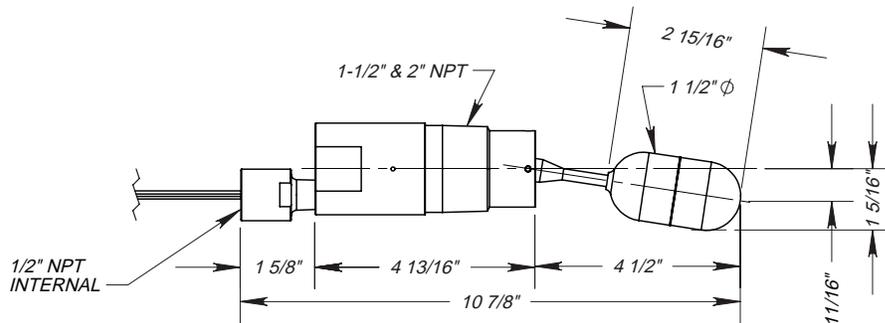
LOW POWER SWITCHES AVAILABLE:

PART NO.	BODY CONNECTION	MODEL NO.	FLOAT	TEMP RANGE	MAX W.P.
CEB2LPW	1/2" NPT	1200 SLS L/P M/O	SS6	-40F to 350F	2000
CEB2LPWPP	1/2" NPT	1200 SLS L/P M/O	HDPE	-40F to 180F	2000
CEB3LPW	1/2" NPT	1200 SLS L/P M/O W/CABLE	SS6	-40F to 350F	2000
CEB3LPWPP	1/2" NPT	1200 SLS L/P M/O W/CABLE	HDPE	-40F to 180F	2000
CEC2LPW	2" NPT	2200 SLS L/P M/O	SS6	-40F to 350F	2000
CEC2LPWPP	2" NPT	2200 SLS L/P M/O	HDPE	-40F to 180F	2000
CEC3LPW	2" NPT	2200 SLS L/P M/O W/CABLE	SS6	-40F to 350F	2000
CEC3LPWPP	2" NPT	2200 SLS L/P M/O W/CABLE	HDPE	-40F to 180F	2000

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DIMENSIONS



NOTES:

*These parts are recommended spare parts and are stocked as repair kits.

For optional Float cages see page C1:80.1

For standard & optional Seals, Metals & Material specifications see Technical Data on pages C1:I - C1:V

PART #	ACCESSORIES	QTY.
5418	M/O Assembly	1
5587A	Pull Assembly w/20' Cable	1
5594	Annulus Plug	1

SWITCHES AVAILABLE:

PART NO.	BODY CONNECTION	MODEL NO.	FLOAT	TEMP RANGE	MAX W.P.
CEB1	1 1/2" NPT	1200 SLS	SS6	-40F to 350F	2000
CEB1PP	1 1/2" NPT	1500 SLS	HDPE	-40F to 180F	5000
CEC1	2" NPT	2200 SLS	SS6	-40F to 350F	2000
CEC1PP	2" NPT	2500 SLS	HDPE	-40F to 180F	5000

LOW POWER SWITCHES AVAILABLE:

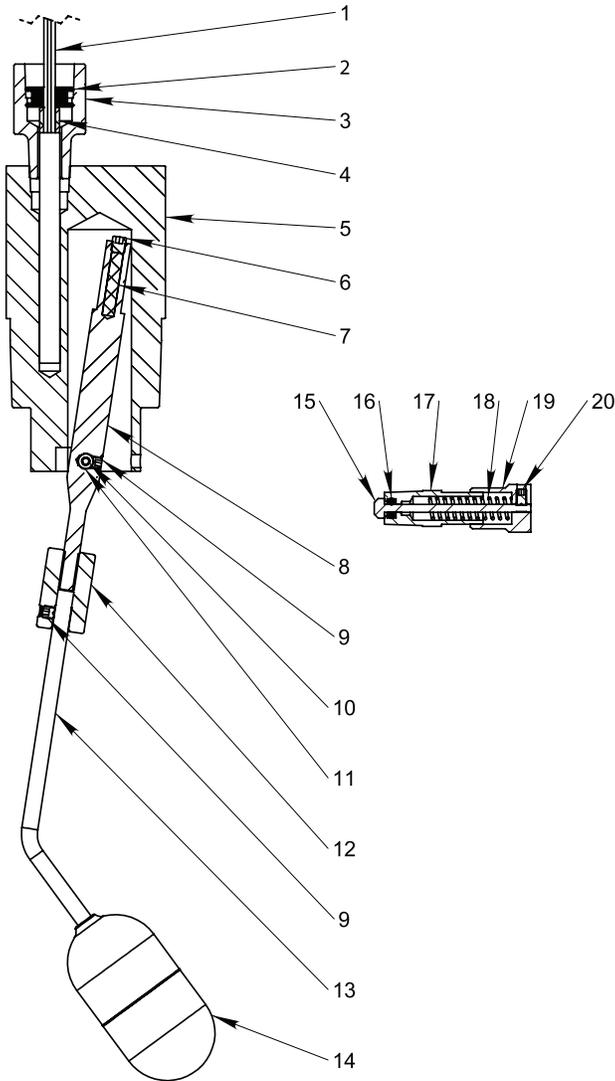
PART NO.	BODY CONNECTION	MODEL NO.	FLOAT	TEMP RANGE	MAX W.P.
CEB1LPW	1 1/2" NPT	1200 SLS LOW PWR	SS6	-40F to 350F	2000
CEB1LPWPP	1 1/2" NPT	1500 SLS LOW PWR	HDPE	-40F to 180F	5000
CEC1LPW	2" NPT	2200 SLS LOW PWR	SS6	-40F to 350F	2000
CEC1LPWPP	2" NPT	2500 SLS LOW PWR	HDPE	-40F to 180F	5000

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FLOAT OPERATED LEVEL CONTROLLER

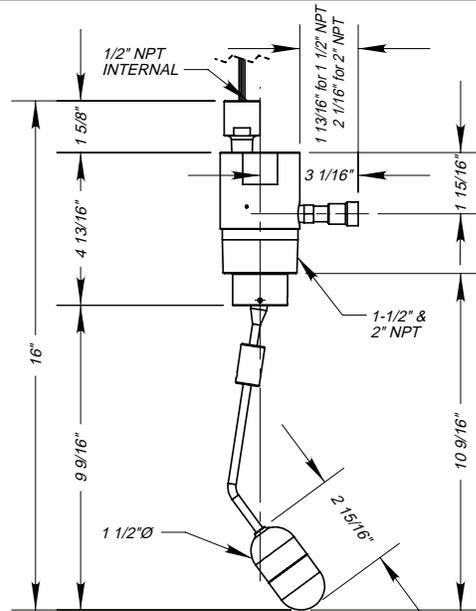


ELEC. LEVEL SWITCH (VERTICAL)
STEEL



ITEM	QTY.	DESCRIPTION	PART NO.
1	1	SWITCH CARTRIDGE	5413
2	1	GROMMET	5424
3	1	CONDUIT ADAPTOR	5414
4	1	GROMMET INSERT	5423
5	1	1 1/2" NPT BODY	5421
		2" NPT BODY	5434
6	1	SET SCREW	5593
7	1	MAGNET	3206
8	1	FLOAT LEVER	5420
9	2	SET SCREW	2446
		1 1/2" NPT LEVER PIN	5415
10	1	2" NPT LEVER PIN	5432
		LEVER SPACER	5416
11	2	LEVER SPACER	5416
12	1	COUPLING	7467
13	1	EXTENSION	7466
14	1	FLOAT	3216
OPTIONAL MANUAL OVERRIDE			
15	1	STEM	5419
16	1	O-RING	5410V
17	1	OVERRIDE FITTING	5418
18	1	SPRING	5429
19	1	PUSH CAP	5417
20	1	SET SCREW	5426

DIMENSIONS



SWITCHES AVAILABLE:

PART NO.	BODY CONNECTION	MODEL NO.	FLOAT	TEMP RANGE	MAX W.P.
CEC1VRT	2" NPT	2200 SLS VERTICAL	SS6	-40F to 350F	2000

NOTES:

For optional Float cages see page C1:80.1
For standard & optional Seals, Metals & Material specifications see Technical Data on pages C1:I - C1:V

APPLICATION:

Liquid level controller for oil and gas separators, water knock-outs, gas scrubbers and accumulators.

FEATURES:

- Rated for 2000 psi working pressure
- Push-button dump valve override standard
- Standard float operates in 0.5 specific gravity
- Designed for harsh gas compressor scrubber applications
- NACE MR0175 process standard
- Snap acting
- NACE MR0175 compliant wetted parts
 - Certification documents available upon request, specify when ordering
- Indirect or Direct acting

CERTIFICATIONS:

- Canadian Registration Number (CRN):
0H13594.2134567890NTY
- NACE MR0175 process standard
- NACE MR0175 compliant wetted parts
 - Certification documents available upon request, specify when ordering

FLOW RATE:

420 SCFH @ 30psig

TEMP. RANGE:

-20°F to +350°F

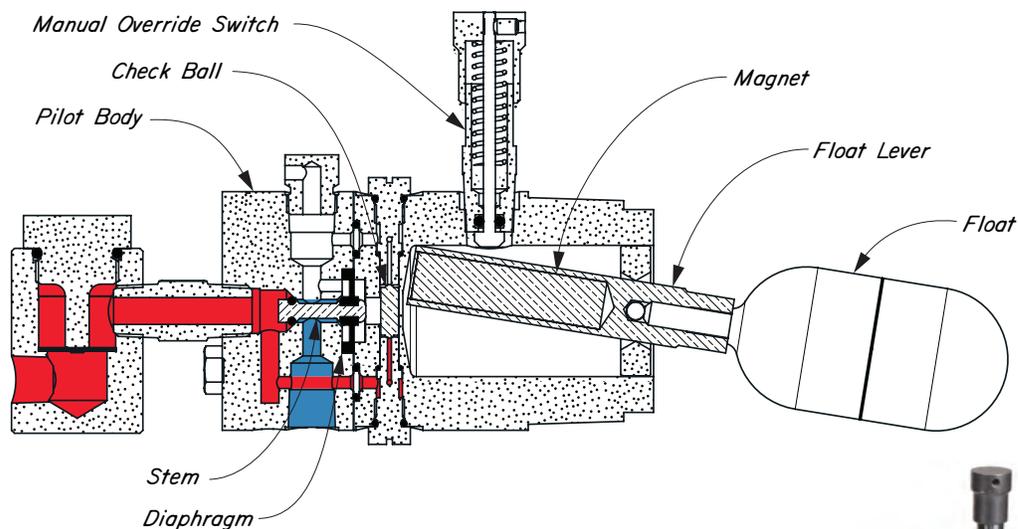
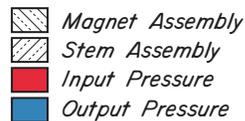
OPERATION:

The FLOAT is counterbalanced by the FLOAT LEVER. As the liquid level increases the FLOAT is lifted. A MAGNET in the FLOAT LEVER opposes the CHECK BALL inside the body. As the FLOAT LEVER moves downward the CHECK BALL moves upward. This opens the lower CHECK VALVE SEAT. As the lower seat opens, pressure is introduced to the back of the VALVE DIAPHRAGM. This moves the VALVE STEM and allows gas to flow through the valve.

As the liquid level decreases the FLOAT moves downward, moving the MAGNET upward and forcing the CHECK BALL down. This allows the pressure on the back of the DIAPHRAGM to vent and the STEM to close.

The MANUAL OVER RIDE allows the operator to manually activate the FLOAT LEVER to test the valve.

To reverse the action of the switch simply rotate the PILOT BODY 180°.

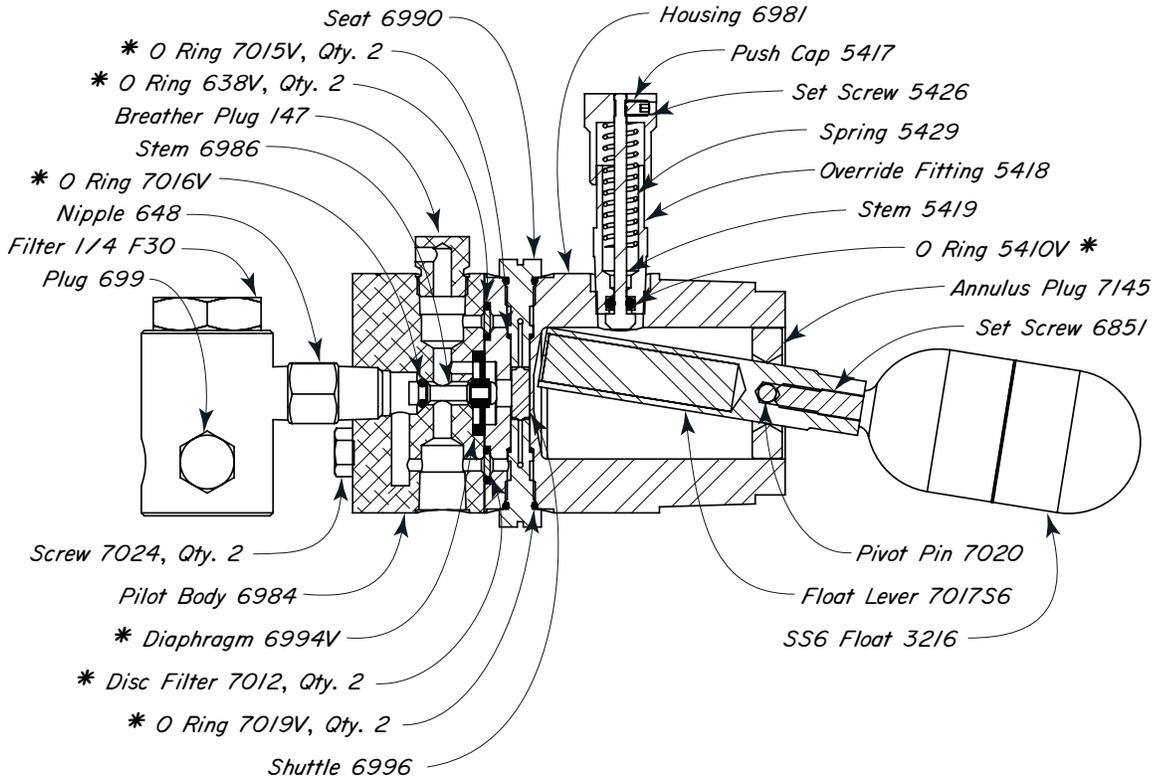


Kimray is an ISO 9001- certified manufacturer.

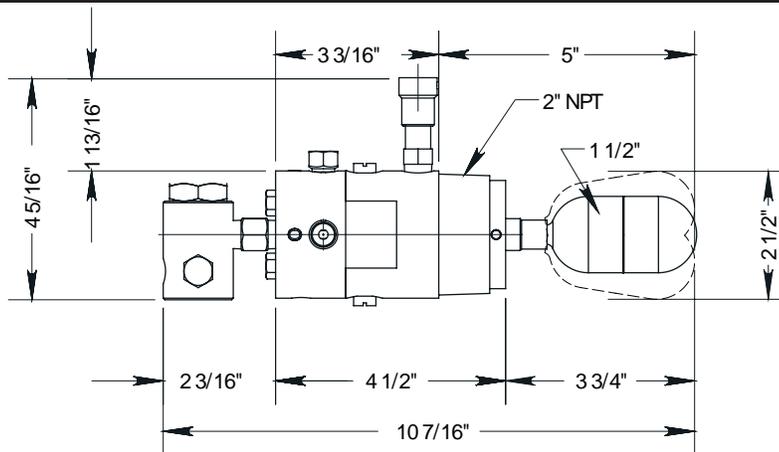
FLOAT OPERATED LEVEL CONTROLLER



PNEUMATIC LEVEL SWITCH
 STEEL - 0-2000 psig OPER. PRES.



DIMENSIONS



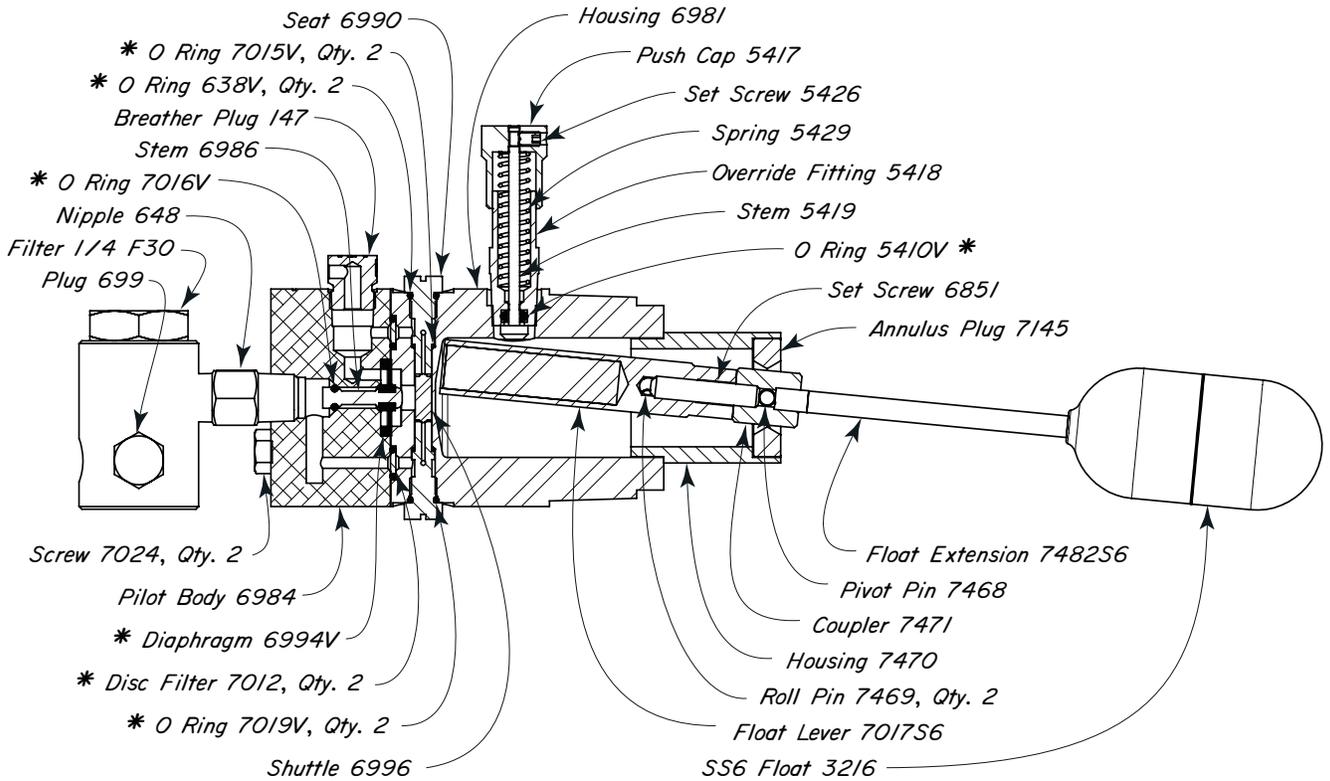
SWITCHES AVAILABLE:

PART NO.	BODY CONNECTION	MODEL NO.	SUPPLY PRES.	MAX W.P.	REP. KIT
CUA	2" NPT	2200 PLS SS6 FLOAT	15-75	2000	RZX

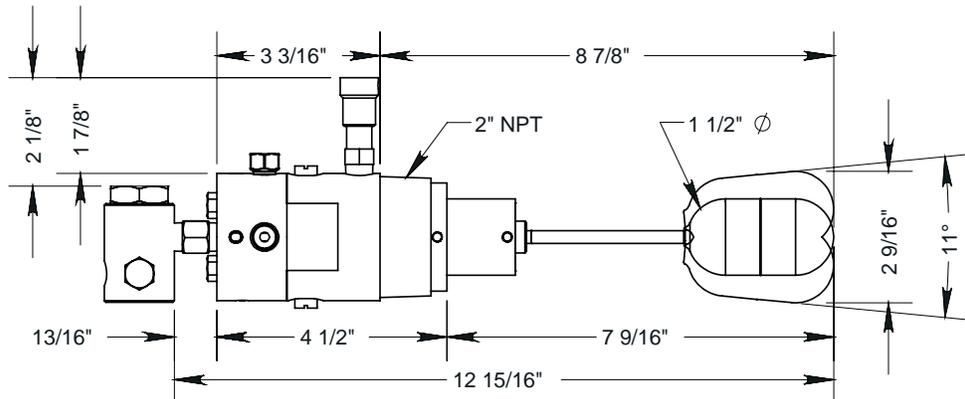
NOTES:

*These parts are recommended spare parts and are stocked as repair kits.
 For optional Float cages see page C1:80.1
 For standard & optional Seals, Metals & Material specifications see Technical Data on pages C1:I - C1:V

PNEUMATIC LEVEL SWITCH
STEEL - 0-2000 psig OPER. PRES.



DIMENSIONS



SWITCHES AVAILABLE:

PART NO.	BODY CONNECTION	MODEL NO.	SUPPLY PRES.	MAX W.P.	REP. KIT
CUAEXT	2" NPT	2200 PLS W/3" EXT FLOAT	15-75	2000	RZX

NOTES:

*These parts are recommended spare parts and are stocked as repair kits.

For optional Float cages see page C1:80.1

For standard & optional Seals, Metals & Material specifications see Technical Data on pages C1:I - C1:V

NOTES:



Kimray is an ISO 9001- certified manufacturer.

APPLICATION:

Liquid level controller for oil and gas separators, water knock-outs, gas scrubbers and accumulators.

FEATURES:

- Push-button dump valve override standard
- Float operates in 0.5 specific gravity
- Designed for harsh gas compressor scrubber applications
- Snap Acting
- NACE MR0175 compliant wetted parts
- Certification documents available upon request, specify when ordering

CERTIFICATIONS:

- Canadian Registration Number (CRN):
0H13594.2134567890NTY
- NACE MR0175 compliant wetted parts
- Certification documents available upon request, specify when ordering

FLOW RATE:

- 17 SCFH @ 30psig
- 36 SCFH @ 75psig

TEMP. RANGE:

- 40°F to +350°F

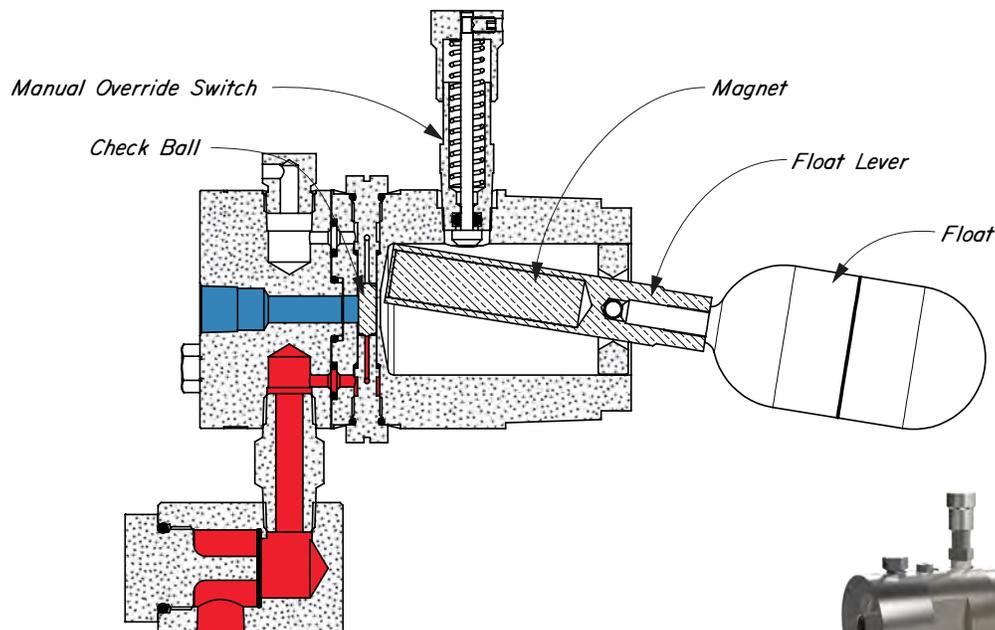
OPERATION:

The FLOAT is counterbalanced by the FLOAT LEVER. As the liquid level increases the FLOAT is lifted. A MAGNET in the FLOAT LEVER opposes the CHECK BALL inside the body. As the FLOAT LEVER moves downward the CHECK BALL moves upward. This opens the lower CHECK VALVE SEAT and allows gas to flow to the output port (Blue).

As the liquid level decreases the FLOAT moves downward, moving the MAGNET upward and forcing the CHECK BALL down. This vents the output pressure.

The MANUAL OVER RIDE allows the operator to manually activate the FLOAT LEVER to test the valve.

-  Magnet Assembly
-  Stem Assembly
-  Input Pressure
-  Output Pressure

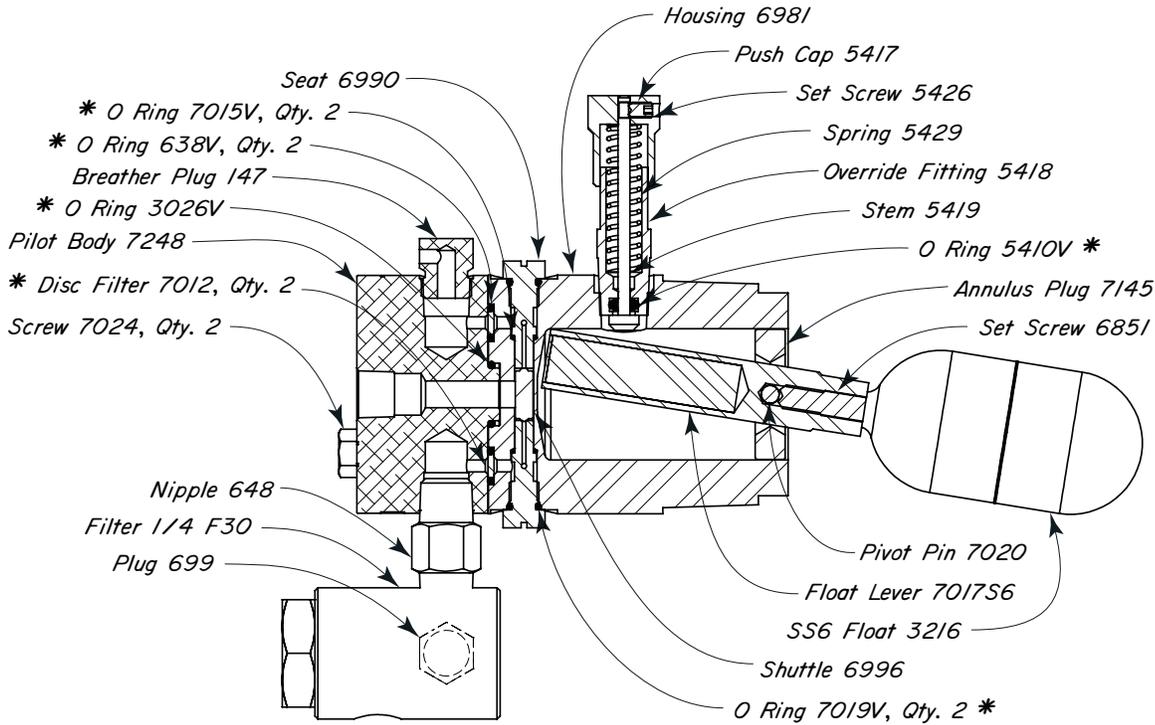


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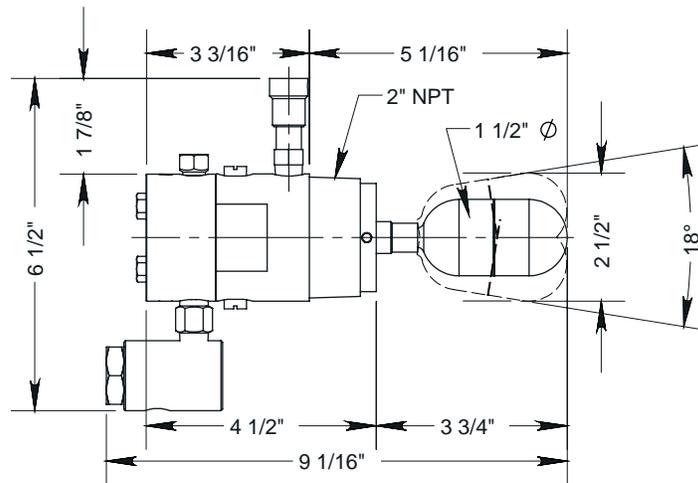
FLOAT OPERATED LEVEL CONTROLLER



PNEUMATIC LEVEL SWITCH NO RELAY
 STEEL - 0-2000 psig OPER. PRES.



DIMENSIONS



SWITCHES AVAILABLE:

PART NO.	BODY CONNECTION	MODEL NO.	SUPPLY PRES.	MAX. W.P.	REP. KIT
CUB	2" NPT	2200 PLS S6 FLOAT NO RELAY	0-75	2000	RZX

NOTES:

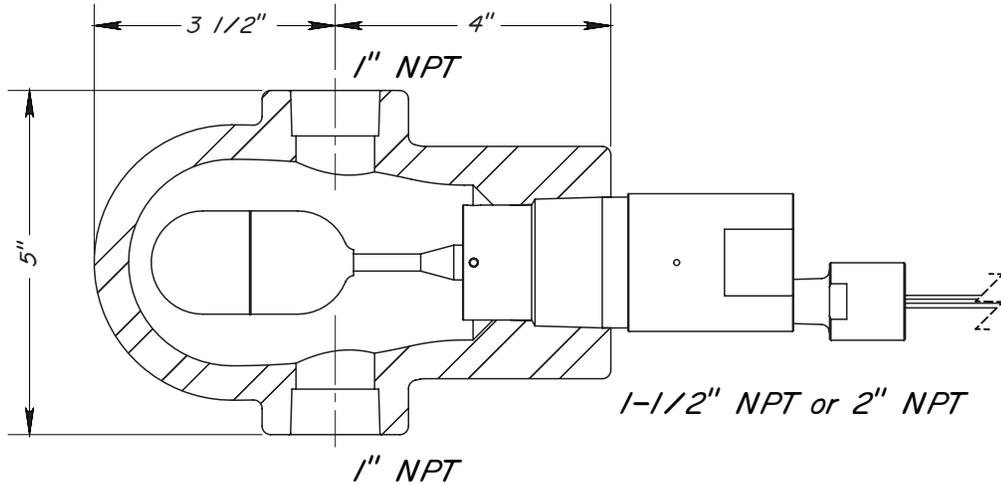
*These parts are recommended spare parts and are stocked as repair kits.
 For optional Float cages see page C1:80.1
 For standard & optional Seals, Metals & Material specifications see Technical Data on pages C1:I - C1:V

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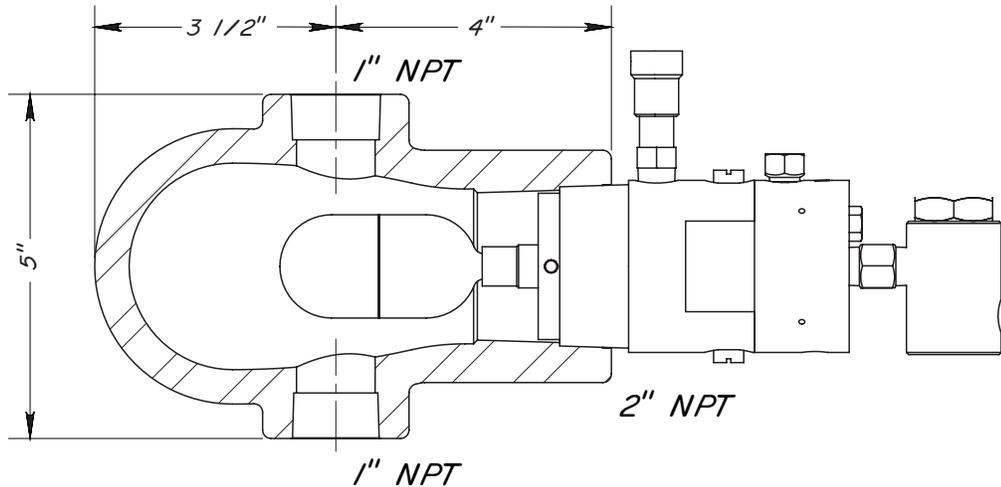
CERTIFICATIONS:

Canadian Registration Number (CRN):
 0F05370.2134567890NTY (External Float Cage)
 0H13594.2134567890NTY (Pneumatic Level Switch)

ELECTRONIC



PNEUMATIC



EXTERNAL FLOAT CAGES AVAILABLE:

PART NO.	SWITCH CONNECTION	DESCRIPTION	TEMP RANGE	MAX W.P.
5522	1 1/2" NPT	EXT. FLOAT CAGE	-50F to 500F	4000
5523	2" NPT	EXT. FLOAT CAGE	-50F to 500F	4000

NOTES:

For standard & optional Seals, Metals & Material specifications see Technical Data on pages C1:I - C1:V

NACE MR0175 compliant material: ASME SA-352-LCB

NOTES:



Kimray is an ISO 9001- certified manufacturer.

APPLICATIONS:

Liquid level controller for oil and gas separators, water knock-outs, gas scrubbers and accumulators.

Operates any pressure opening diaphragm motor valve requiring not more than 30 psig diaphragm pressure. See sections E1, E2, E3 and E4 for diaphragm operated motor valves.

FEATURES:

- Intermittent vent pilot
- Simple installation
- Easy to use
- Polyethylene displacement float
- .65 Specific Gravity or higher
- No adjustment required

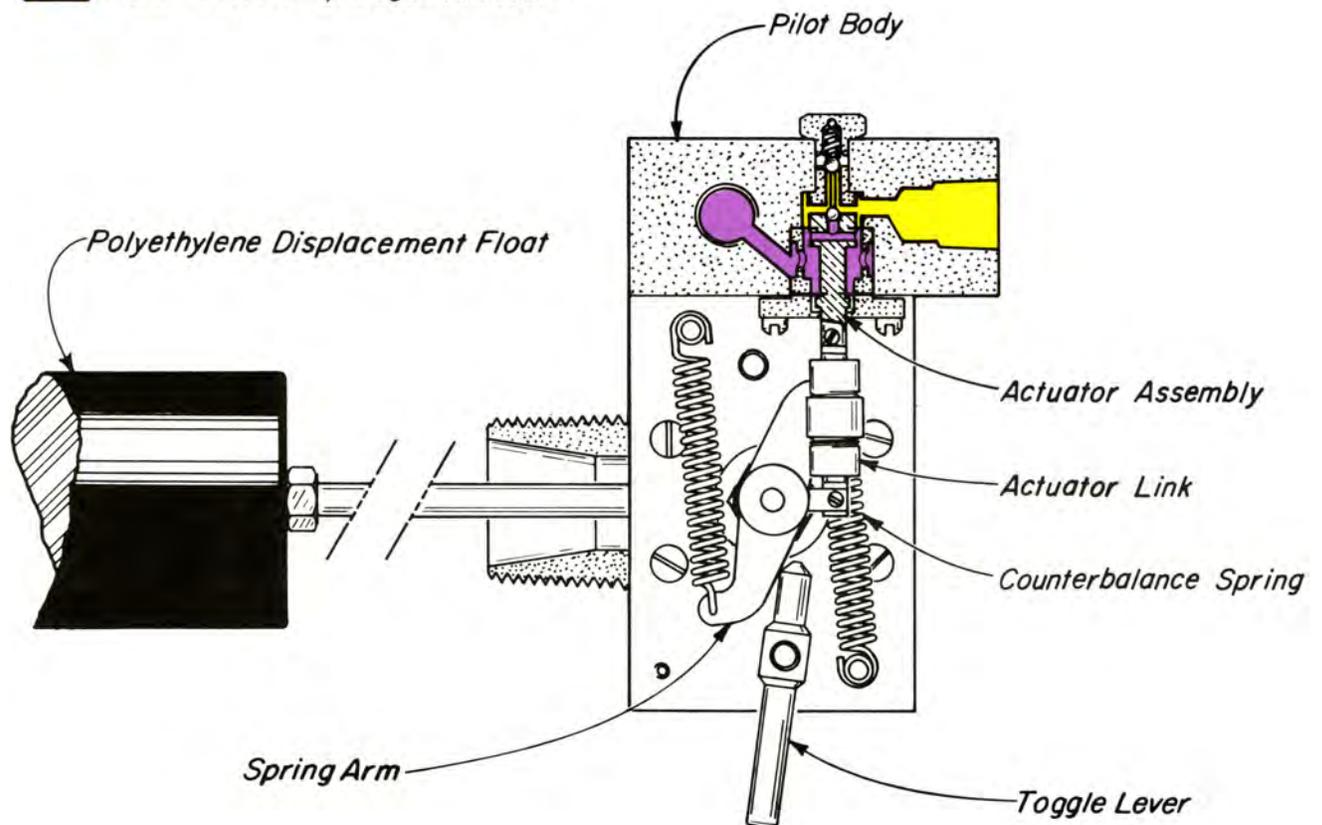
OPERATION:

The ULC Pilot consists of a DISPLACEMENT FLOAT for monitoring the liquid level, a trunnion and shaft to transmit float movement, and a pilot case which contains a PILOT BODY, SPRING ARM and ACTUATOR ASSEMBLY.

As the liquid level rises, the displaced volume of liquid plus the force of the COUNTERBALANCE SPRING lifts the FLOAT, rotating the trunnion and SPRING ARM in a clockwise direction. This draws the ACTUATOR ASSEMBLY downward, closing the vent (Yellow to Atmosphere) and opening the inlet (Violet to Yellow). Yellow pressure opens the motor valve.

As the liquid level lowers, the weight of the FLOAT forces the trunnion and SPRING ARM in a counter-clockwise direction. This pushes the ACTUATOR upward, closing the inlet (Violet to Yellow) and opening the vent (Yellow to Atmosphere). Vented yellow pressure allows the motor valve to close.

-  *Actuator Assembly*
-  *Supply Pressure*
-  *Motor Valve Diaphragm Pressure*



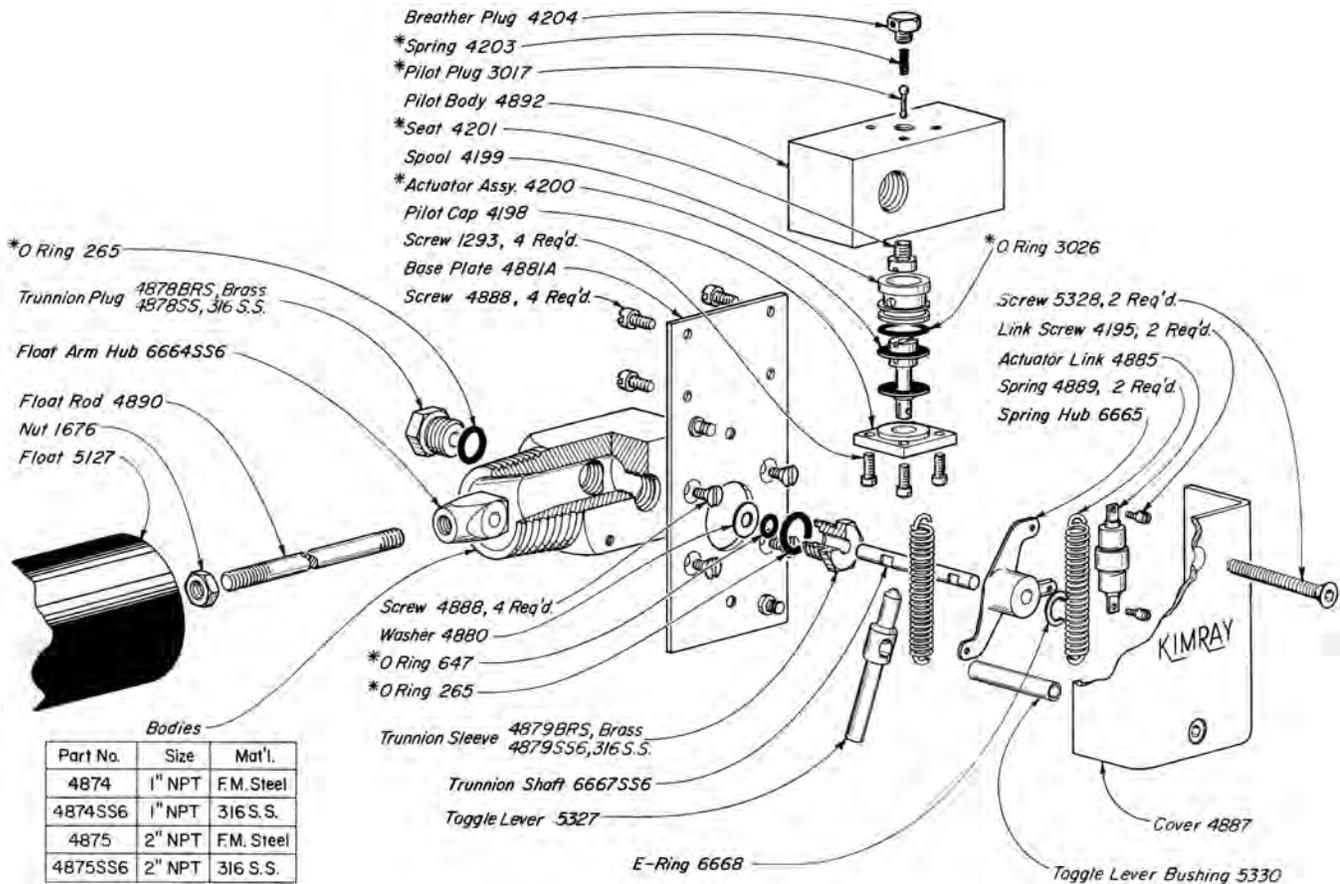
Kimray is an ISO 9001- certified manufacturer.

FLOAT OPERATED LEVEL CONTROLLER



UNIVERSAL LEVEL CONTROLLER

BRASS, STEEL & STAINLESS STEEL - 0-1500 psig OPER. PRES.



Parts for pilots available with pipe vent not shown are Breather plug 147, Screw 1293 (4) required, Pilot Body 4892PV, Breather plug 4893.

PILOTS ACCESSORIES AVAILABLE:

PART NO.	DESCRIPTION
6001	4" Hammer Union Adapter for 1" NPT Pilot

CONTROLLERS AVAILABLE:

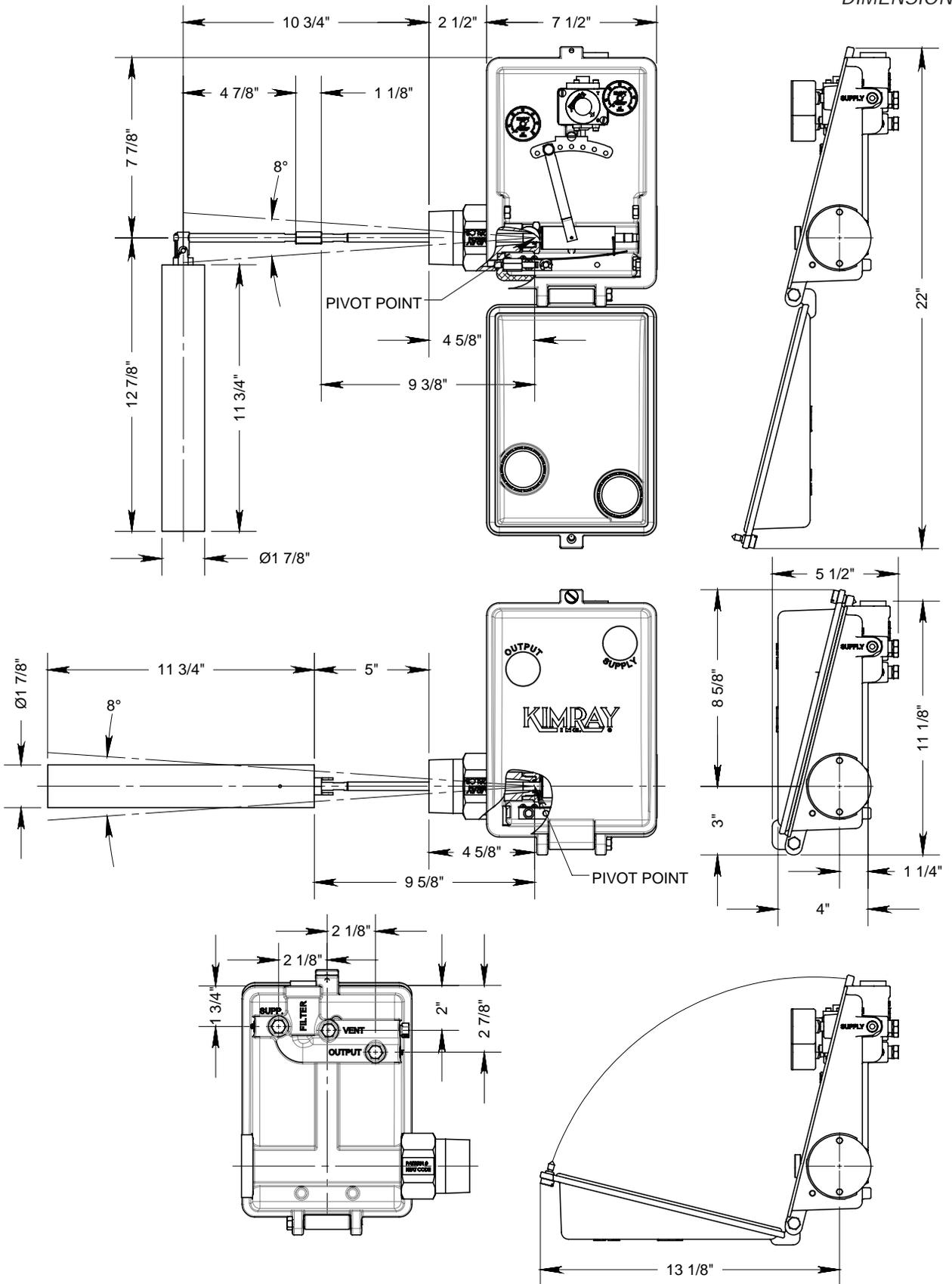
PART NO.	BODY CONNECTION	MODEL NO.	SUPPLY PRES.	MAX W.P.	REP. KIT
CMB	1" NPT	ULC STEEL	0-30	1500	RSL
CMC	1" NPT	ULC SS6	0-30	1500	RSL
CMD	2" NPT	ULC STEEL	0-30	1500	RSL
CME	2" NPT	ULC SS6	0-30	1500	RSL
CMG	1" NPT	ULC STL W/PIPE VENT	0-30	1500	RSL
CMH	1" NPT	ULC SS6 W/PIPE VENT	0-30	1500	RSL
CMI	2" NPT	ULC STL W/PIPE VENT	0-30	1500	RSL
CMJ	2" NPT	ULC SS6 W/PIPE VENT	0-30	1500	RSL

NOTES:

*These parts are recommended spare parts and are stocked as repair kits.
For standard & optional Seals, Metals & Material specifications see Technical Data on pages C1:1 - C1:V

Kimray is an ISO 9001- certified manufacturer.

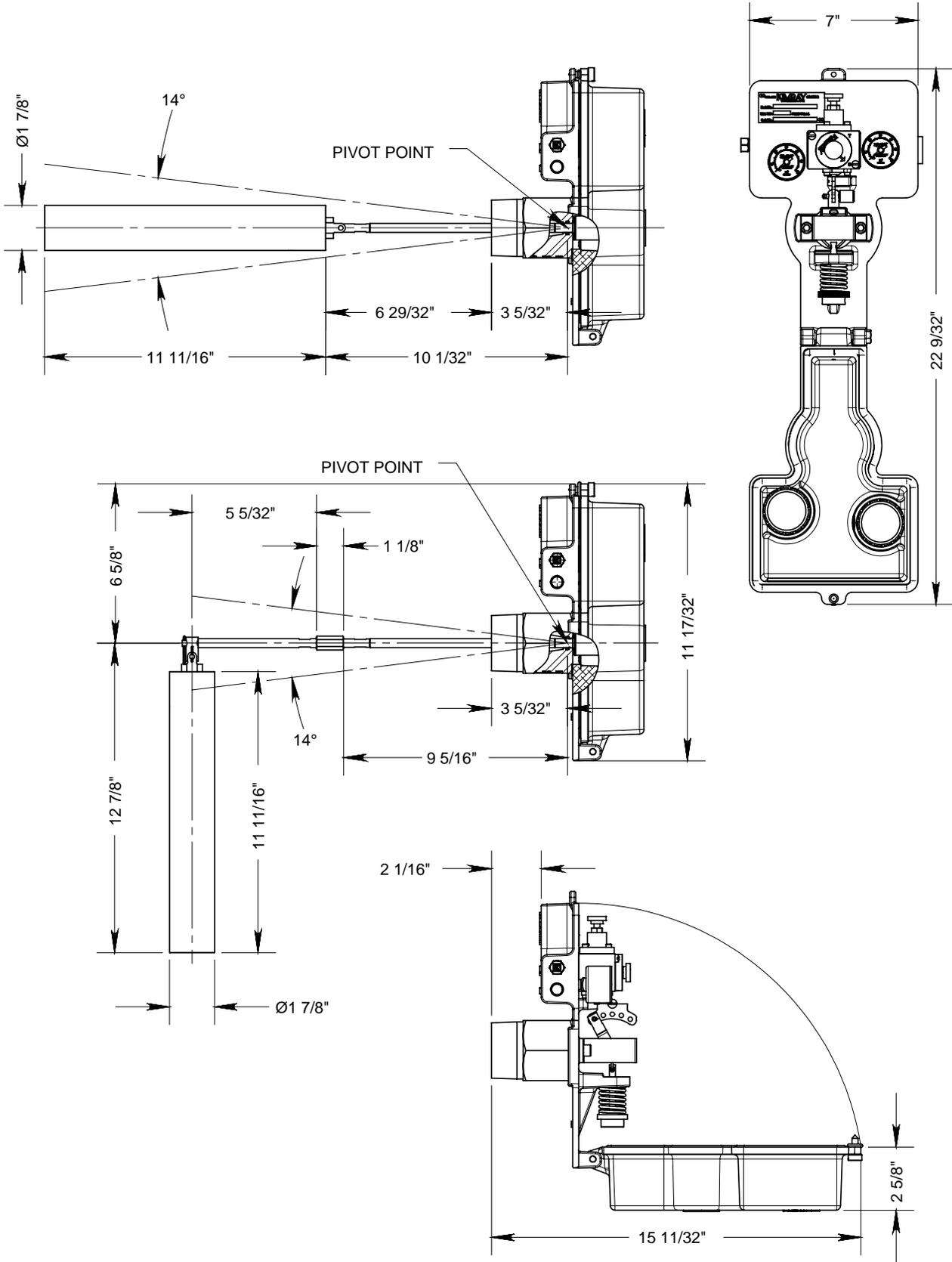
GEN II SIDE MOUNT DIMENSIONS

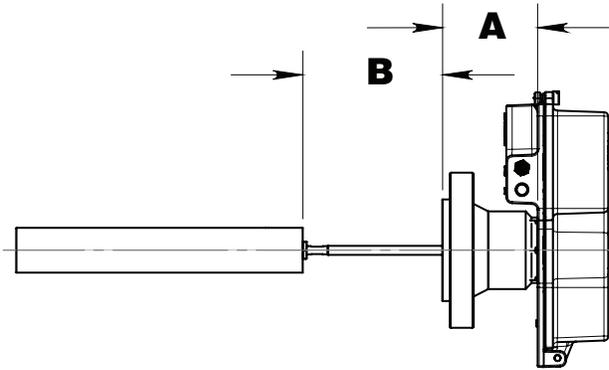


FLOAT OPERATED LEVEL CONTROLLER

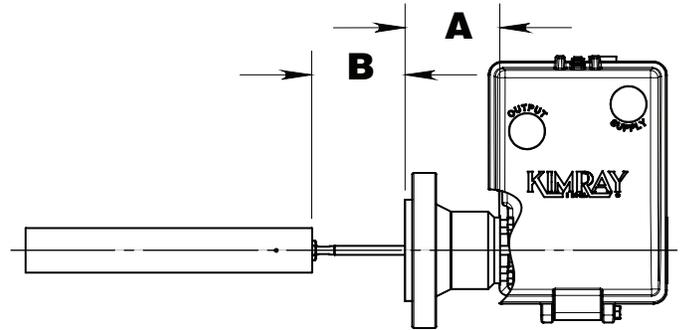


GEN II BACK MOUNT DIMENSIONS

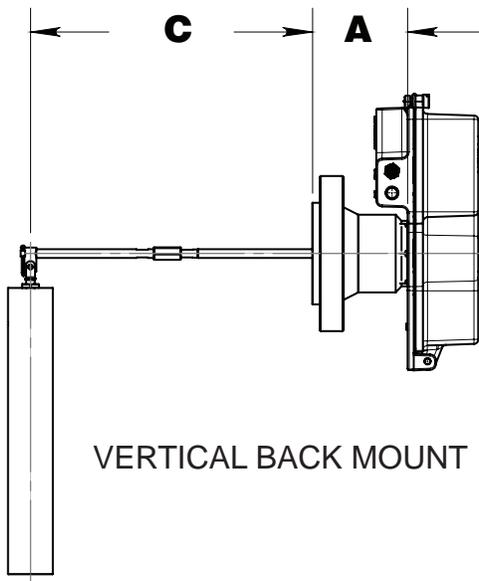




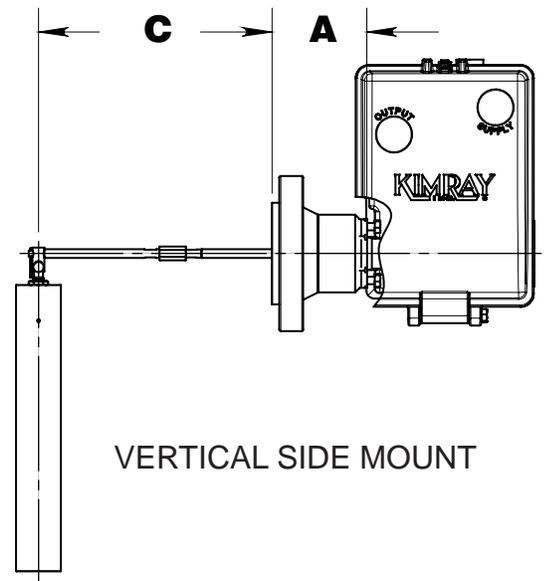
HORIZONTAL BACK MOUNT



HORIZONTAL SIDE MOUNT



VERTICAL BACK MOUNT



VERTICAL SIDE MOUNT

FLANGES		150#			300#			600#			900#			1500#				
TYPE	SIZE	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C		
SIDE MOUNT	Raised Face	2"	3 27/64	4 15/32	10 11/32	3 5/8	4 17/64	10 9/64	3 59/64	3 31/32	9 27/32	4 27/64	3 15/32	9 11/32				
		3"	3 27/64	4 15/32	10 11/32	3 51/64	4 3/32	9 31/32	4 11/64	3 23/32	9 19/32	4 13/16	3 5/64	8 61/64	6 19/64	1 19/32	7 15/32	
		4"	3 39/64	4 9/32	10 5/32	3 59/64	3 31/32	9 27/32	4 27/64	3 15/32	9 11/32				5 3/4	2 9/64	8 1/64	
		6"													6 1/8	1 49/64	7 41/64	
	Ring Joint	2"	3 43/64	4 7/32	10 3/32	3 9/16	4 21/64	10 13/64	3 63/64	3 57/64	9 49/64				4 11/64	3 23/32	9 19/32	
		3"							3 59/64	3 31/32	9 27/32	4 31/64	3 13/32	9 9/32				
		4"							4 31/64	3 13/32	9 9/32							
	BACK MOUNT	Raised Face	2"	3 27/64	4 15/32	10 11/32	3 5/8	4 17/64	10 9/64	3 59/64	3 31/32	9 27/32	4 27/64	3 15/32	9 11/32			
			3"	3 27/64	4 15/32	10 11/32	3 51/64	4 3/32	9 31/32	4 11/64	3 23/32	9 19/32	4 13/16	3 5/64	8 61/64	6 19/64	1 19/32	7 15/32
			4"	3 39/64	4 9/32	10 5/32	3 59/64	3 31/32	9 27/32	4 27/64	3 15/32	9 11/32				5 3/4	2 9/64	8 1/64
6"															6 1/8	1 49/64	7 41/64	
Ring Joint		2"	3 43/64	4 7/32	10 3/32	3 9/16	4 21/64	10 13/64	3 63/64	3 57/64	9 49/64				4 11/64	3 23/32	9 19/32	
		3"							3 59/64	3 31/32	9 27/32	4 31/64	3 13/32	9 9/32				
		4"							4 31/64	3 13/32	9 9/32							

SEALS

Table 1 - GEN II Seal Options

Product Type	Part	Standard Material	Optional Material
Pneumatic & Electric	Mounting Piece	LTV	AFLAS®, HSN, PTFE
Pneumatic	Pilot Seals	FKM	N/A

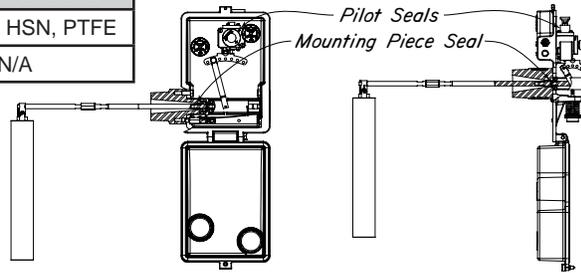


Table 2 - Level Switch Seal Options

Product Type	Part	Standard Material	Optional Material
Electric Switch	O-rings	FKM	AFLAS®, HSN, Nitrile
Pneumatic Switch	O-rings	FKM	AFLAS®, HSN, Nitrile
	Diaphragm	FKM	LTN

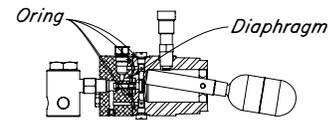


Table 3 - Seal Specifications

		NITRILE	HIGHLY SATURATED NITRILE	FKM	AFLAS®	
	Kimray Suffix	-	HSN	V	AF	LTN
Resistance	Abrasion	G	G	G	GE	G
	Acid	F	E	E	E	F
	Chemical	FG	FG	E	E	FG
	Cold	G	G	PF	P	E
	Flame	P	P	E	E	P
	Heat	G	E	E	E	G
	Oil	E	E	E	E	E
	Ozone	P	G	E	E	P
	Set	GE	GE	E	PF	GE
	Tear	FG	FG	F	PF	FG
	Water/Steam	FG	E	P	GE	FG
	Weather	F	G	E	E	F
	CO2	FG	GE	PG	GE	FG
	H2S	P	FG	P	E	P
Methanol	G	E	PF	PF	P	
Properties	Dynamic	GE	GE	GE	GE	GE
	Electrical	F	F	F	E	F
	Impermeability	G	G	G	G	G
	Tensile Strength	GE	E	GE	FG	GE
	Temp. Range (°F)	-40 to +220°F	-15° to +300°F	-10° to +350°F	+25° to +450°F	-85° to +120°F
	Temp. Range (°C)	-40 to +105°C	-26° to +149°C	-23° to +177°C	0° to +232°C	-65° to +49°C
	Form	O,S,D	O,S,D	O,S,D	O,S,D	O,D

RATINGS: P-POOR, F-FAIR, G-GOOD, E-EXCELLENT

Table 4 - Materials of Construction

	Component	Standard Material	Optional Material
Pneumatic & Electric GEN II Level Controllers	Body	ASTM SA-352LCB	ASTM A-351CF8M
	Pilot	ASTM B-221 6061-T6	N/A
	Link	303SS ASTM A-582	N/A
	Tangent Arm	316 S.S. ASTM A-240	N/A
	Waggle Arm	316 S.S. ASTM A-479	N/A
	Displacer	PVC	316 S.S. ASTM A-240
	Spring	17-7 PH Condition C 302SS ASTM A-313	N/A
Pneumatic Level Switches	Body	Aluminum ASTM B-221 6061-T6	N/A
	Float	316 S.S. ASTM A-240	N/A
External Float Cages	Electronic & Pneumatic Level Switch Float Cage	ASTM A-352 LCB	ASTM A-351CF8M
	Horizontal GEN II Float Cage	ASTM A-106 GR. B	N/A
	Vertical External GEN II Float Cage	SA-106B, SA-234 WPB, SA-516-70	N/A

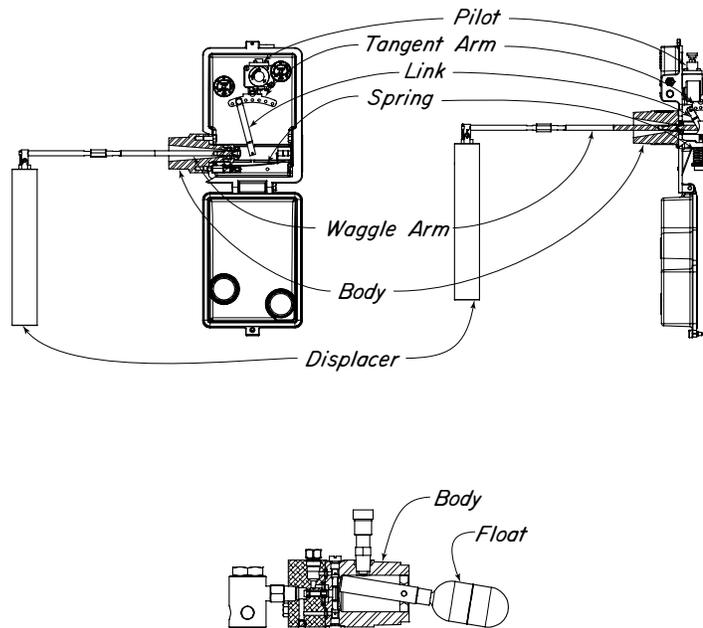


Table 5 - Material Specification

	Body		Inner Parts		
	CAST STEEL	CAST DUCTILE	303 STAINLESS STEEL	316 STAINLESS STEEL	6061-T6 ALUMINUM
KIMRAY SUFFIX	LCB	C6	S3	S6	AL
ASTM GROUP	ASTM A-352	ASTM A-351	ASTM A-582	ASTM A-479	ASTM B-221
GRADE	LCB	CF8M	303	316	6061-T6
UNS	J02505	J92900	S30300	S31600	A96061
NACE Compliant	Yes	Yes	No	No	No

NOTES:



Kimray is an ISO 9001- certified manufacturer.