

APPLICATIONS:

Liquid level controller for oil and gas separators, water knockouts, 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 control valve requiring not more than 45 psig diaphragm pressure.

FEATURES:

Compact design fits in production units & other tight spaces.

Snap or throttle control in one pilot

Easily convert b/tw left/right mount & direct/indirect action

Non-bleed pilot (Preferred EPA Natural Gas Star BMP)

1/4" NPT vent ports for optional emissions capture

No vent gas in enclosure

Simple pilot removal

Powder coated enclosure

Vibration resistant

PVC Displacer (Std.) (4000 psi, 175°F);

316 SS Displacer (Optional) (1500 psi, 450°F)

40 micron supply gas filter

Paraffin cleanout port

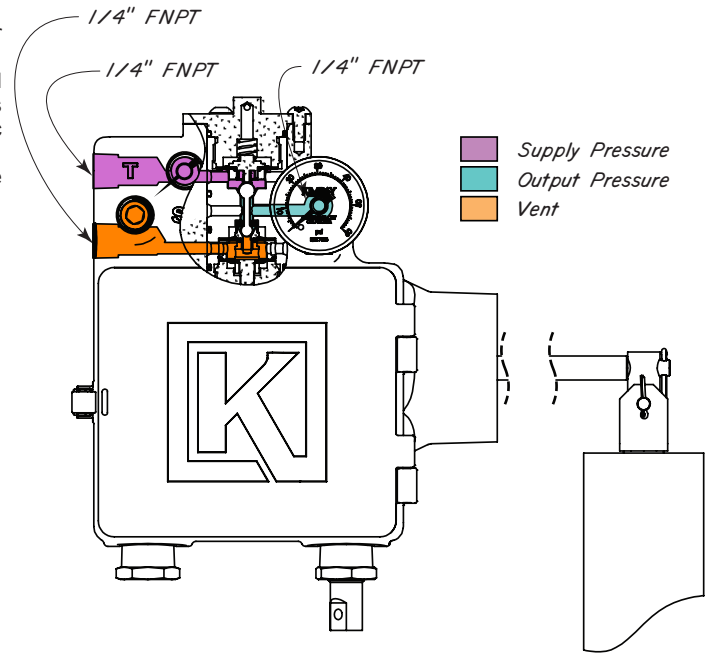


Image above shown in left mount

CERTIFICATIONS:

NACE MR0175 compliant Wetted Parts option available

• documents available upon request, specify when ordering

Canadian Registration Number (CRN):

0H23619.2

Kimray is an ISO 9001- certified manufacturer.

Standard Configuration Code †	Order Code	Line Size	Connection Type	Mounting Type	Supply Press. psig	Max. W.P. †† psig
FPL2S4L1AS	LCL	2"	NPT	Left Hand	5 - 45	4000
FPL2ARL1AS	LCA		150RF			285
FPL2BRL1AS			300RF			740
FPL2DRL1AS			600RF			1480
FPL2FRL1AS			1500RF			3705
FPL2DJL1AS			600RTJ			1480
FPL2FJL1AS			1500RTJ			3705
FPL3ARL1AS		3"	150RF	Left Hand	5 - 45	285
FPL3BRL1AS			300RF			740
FPL3DRL1AS	LCW		600RF			1480
FPL3ERL1AS			900RF			2220
FPL3FRL1AS			1500RF			3705
FPL3DJL1AS			600RTJ			1480
FPL3EJL1AS			900RTJ			2220
FPL3HUL1AS	LDC		H.U.			3000
FPL4ARL1AS	LDM	4"	150RF	Left Hand	5 - 45	285
FPL4BRL1AS			300RF			740
FPL4DRL1AS			600RF			1480
FPL4ERL1AS			900RF			2220
FPL4FRL1AS			1500RF			3705
FPL4DJL1AS			600RTJ			1480
FPL4HUL1AS			H.U.			1500
FPL5HUL1AS	LEM	5"	H.U.			1500
FPL6FRL1AS		6"	1500RF			3705
Standard Configuration Code †	Order Code	Line Size	Connection Type	Mounting Type	Supply Press. psig	Max. W.P. †† psig
FPL2S4R1AS	LCR	2"	NPT	Right Hand	5 - 45	4000
FPL2ARR1AS	LCJ		150RF			285
FPL2BRR1AS			300RF			740
FPL2DRR1AS			600RF			1480
FPL2FRR1AS			1500RF			3705
FPL2DJR1AS			600RTJ			1480
FPL2FJR1AS			1500RTJ			3705
FPL3ARR1AS		3"	150RF	Right Hand	5 - 45	285
FPL3BRR1AS	LDE		300RF			740
FPL3DRR1AS	LDF		600RF			1480
FPL3ERR1AS			900RF			2220
FPL3FRR1AS			1500RF			3705
FPL3DJR1AS			600RTJ			1480
FPL3EJR1AS			900RTJ			2220
FPL3HUR1AS	LDL		H.U.			3000
FPL4ARR1AS	LDV	4"	150RF	Right Hand	5 - 45	285
FPL4BRR1AS			300RF			740
FPL4DRR1AS			600RF			1480
FPL4ERR1AS			900RF			2220
FPL4FRR1AS			1500RF			3705
FPL4DJR1AS			600RTJ			1480
FPL4HUR1AS			H.U.			1500
FPL5HUR1AS	LEV	5"	H.U.			1500
FPL6FRR1AS		6"	1500RF			3705

NOTES:

For standard & optional seals, metals, Cf Cv values, material specifications & dimensions see technical data on pages 08:I - 08:VII

† For Corrosive service remove last "S" & replace with "C"

† For code builder see page 08:00.2

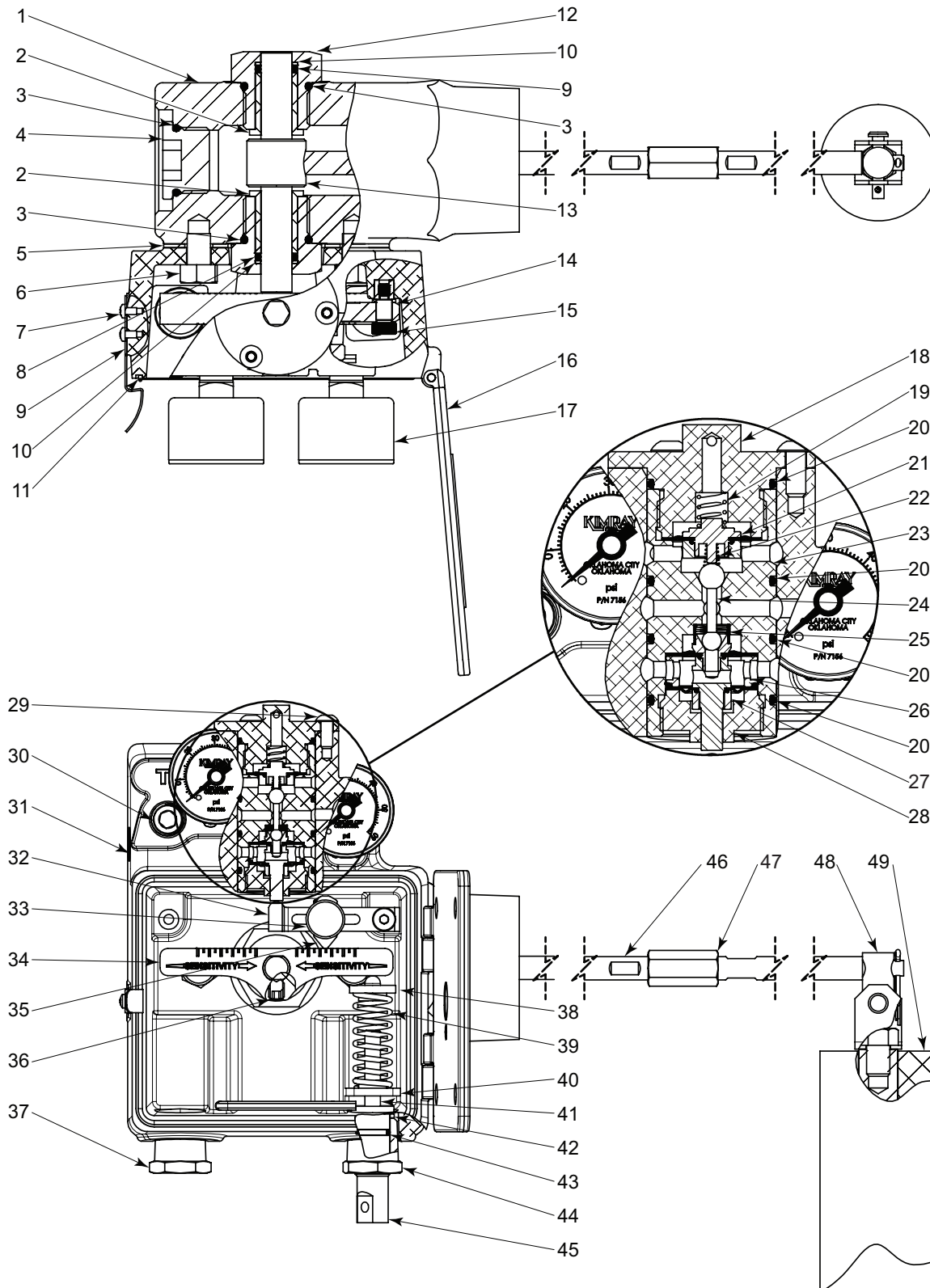
†† Max W.P. values based on -20°F to 100°F.

All Pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

FLOAT OPERATED CONTROLLERS

GEN 3 PNEUMATIC LEVEL CONTROLLER MODEL PL

KIMRAY INC.®



All Pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

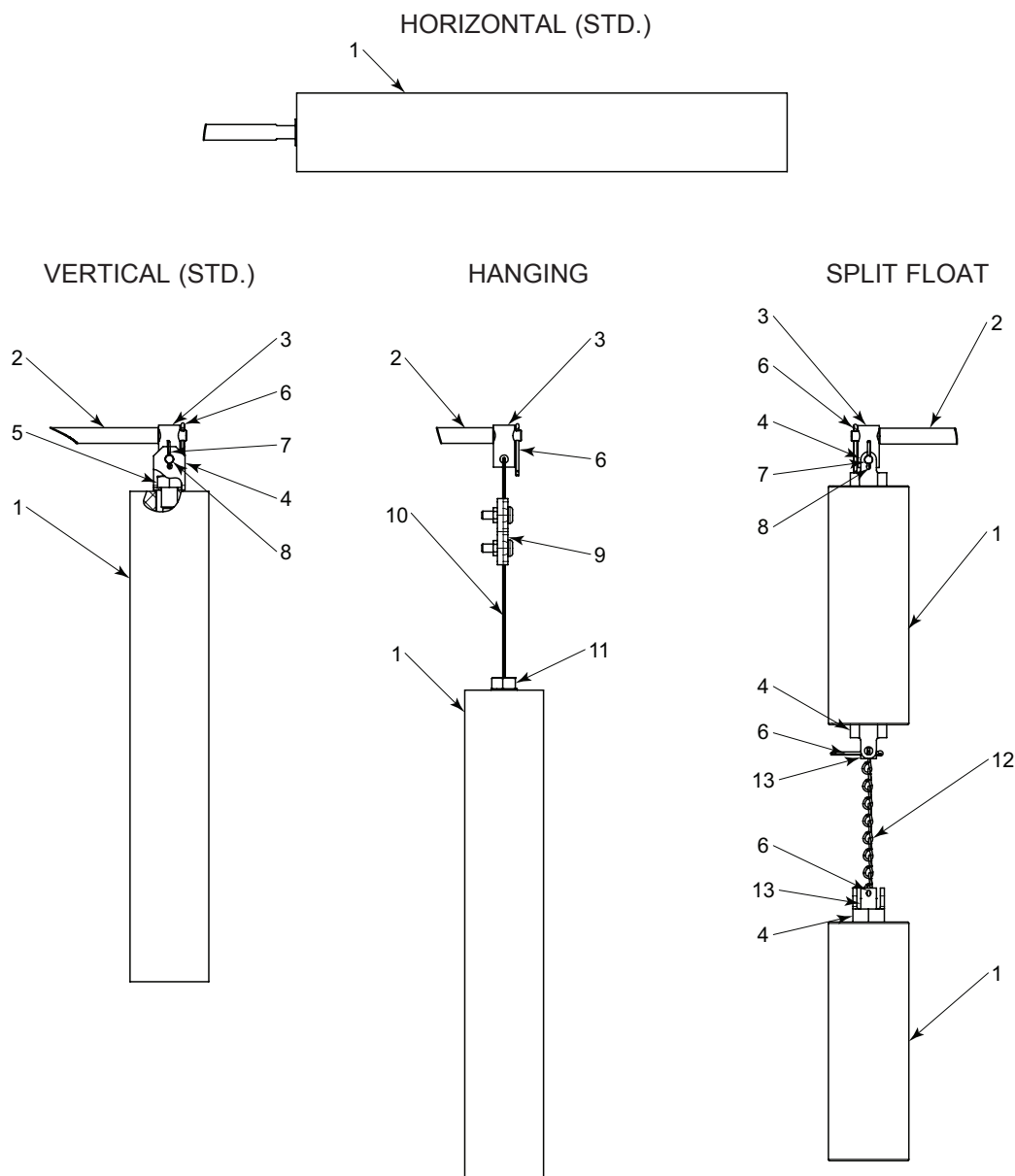
ITEM	QTY.	DESCRIPTION	PART NUMBER					
			STANDARD					CORROSIVE
1	1	Body	2 INCH	3 INCH	4 INCH	5 INCH	6 INCH	2 INCH
		MNPT	7736	----	----	----	----	7736S6
		150RF	7820	7826	7833	----	----	----
		300RF	7821	7827	7834	----	----	----
		600RF	7822	7828	7835	----	----	----
		900RF	----	7829	7836	----	----	----
		1500RF	7823	7830	7837	----	7839	----
		600RTJ	7824	7831	7838	----	----	----
		900RTJ	----	7832	----	----	----	----
		1500RTJ	7825	----	----	----	----	----
		Hammer Union	----	7759	7760	7761	----	----

ITEM	QTY.	DESCRIPTION	PART NO		ITEM	QTY.	DESCRIPTION	PART NO	
			STANDARD	CORROSIVE				STANDARD	CORROSIVE
2	2	Flanged Bearing *	7678		27	1	Lower Diaphragm Assy. ◇ *	7096AS	
3	3	O-Ring, Fitting *	7679V		28	1	Bottom Cartridge Cap ◇	7743	
4	1	Socket Plug	7667S6		29	3	Pilot Screw	7739	
5	1	Mount Gasket *	7754		30	3	NPT Socket Plug	7762	
6	2	Mount Screw	7908		31	1	Enclosure	7735AS	
7	2	Latch Screw	7752		32	1	Pilot Lever	7673	
8	2	O-Ring, Shaft *	7758V		33	1	Sensitivity Knob	7742	
9	1	Latch	7947		34	1	Torque Lever	7672	
10	2	Back-Up Standard *	7680V		35	1	Sensitivity Fulcrum	7674	
		Shaft PTFE (AFLAS kit only)	7819		36	1	Torque Level Set Screw	7749	
11	1	Cover Seal	7763		37	1	Hex NPT Plug	7756	
12	2	Bearing Hub	7666	7666S6	38	1	Upper Spring Plate	7675	
13	1	Torque Shaft	7668	7668S6	39	1	Spring Standard	7725	
14	1	Pilot Washer *	7751				Heavy	7726	
15	1	Pilot Lever Screw	7740		40	1	Lower Spring Plate	7676	
16	1	Enclosure Cover	7737		41	1	Spring Adjuster Set Screw	7750	
17	2	Gauge	7156		42	1	Spring Adjuster Washer *	7727	
18	1	Top Cartridge Cap ◇	7745		43	1	O-Ring, Spring Adjuster *	7748	
19	1	Booster Spring ◇ *	585L		44	1	Spring Adjuster Bushing	7757	
20	4	O-Ring, Pilot ◇ *	5226V		45	1	Spring Adjusting Knob	7677	
21	1	Upper Diaphragm Assy. ◇ *	7102AS		46	1	Displacer Arm	7681	
22	1	Conical Spring ◇ *	5469		47	1	Displacer Arm Coupling	5454	
23	1	Cartridge Body ◇	7744		48	1	Rod Assembly	7723A	
24	1	Pilot Plug ◇ *	112				Optional 6" Arm Extension	5543L6	
25	1	Spring ◇ *	5541				Optional 12" Arm Extension	5543L12	
26	1	Diaphragm Spacer ◇ *	5475				Optional 18" Arm Extension	5543L18	
Repair Kits			RYC		* These parts are recommended spare parts and stocked as repair kits.				
Pilot Assembly			YBZ		◇ These parts are stocked as Pilot Assembly				

ITEM	QTY.	DESCRIPTION	PART NO	WEIGHT	MAX TEMP	MAX PSI	MIN DIFF. SP.GR.	MATERIAL	SPRING P/N BASED ON EXTENSION LENGTH			
49	1	Displacers							NO Ext.	6" Ext.	12" Ext.	18" Ext.
		1 7/8" x 12" Lg	7637A	1lb 15oz	175°F	4000	>0.20	PVC	7725	7725	7725	7725
		2 1/2" x 12" Lg	7639A	3lb 0.5oz	175°F	4000	>0.15	PVC	7725	7725	7726	7726
		1 7/8" x 20" Lg	7638A	3lb 5oz	175°F	4000	>0.15	PVC	7725	7725	7726	7726
		2 3/4" x 14 1/4" Lg	7640A	4lb 5oz	175°F	4000	>0.1	PVC	7725	7726	7726	7726
		1 3/4" x 12" Lg	5461SS6	1lb 15oz	450°F	2000	>0.20	316SS	7725	7725	7725	7725
		1 3/4" x 20" Lg	5461SS6L20	3lb 0oz	450°F	2000	>0.17	316SS	7725	7725	7726	7726

ACCESSORIES (not shown)	
ITEM	DESCRIPTION
Hex Key	7845
Filter	7847

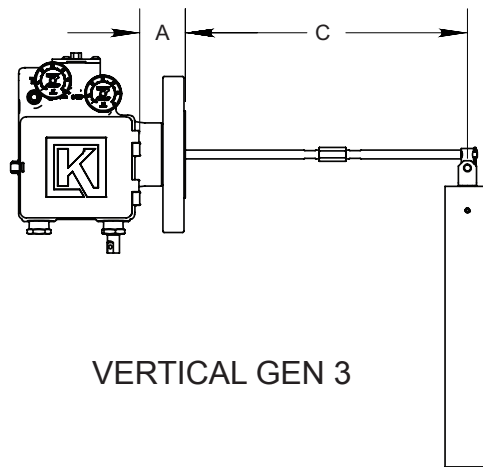
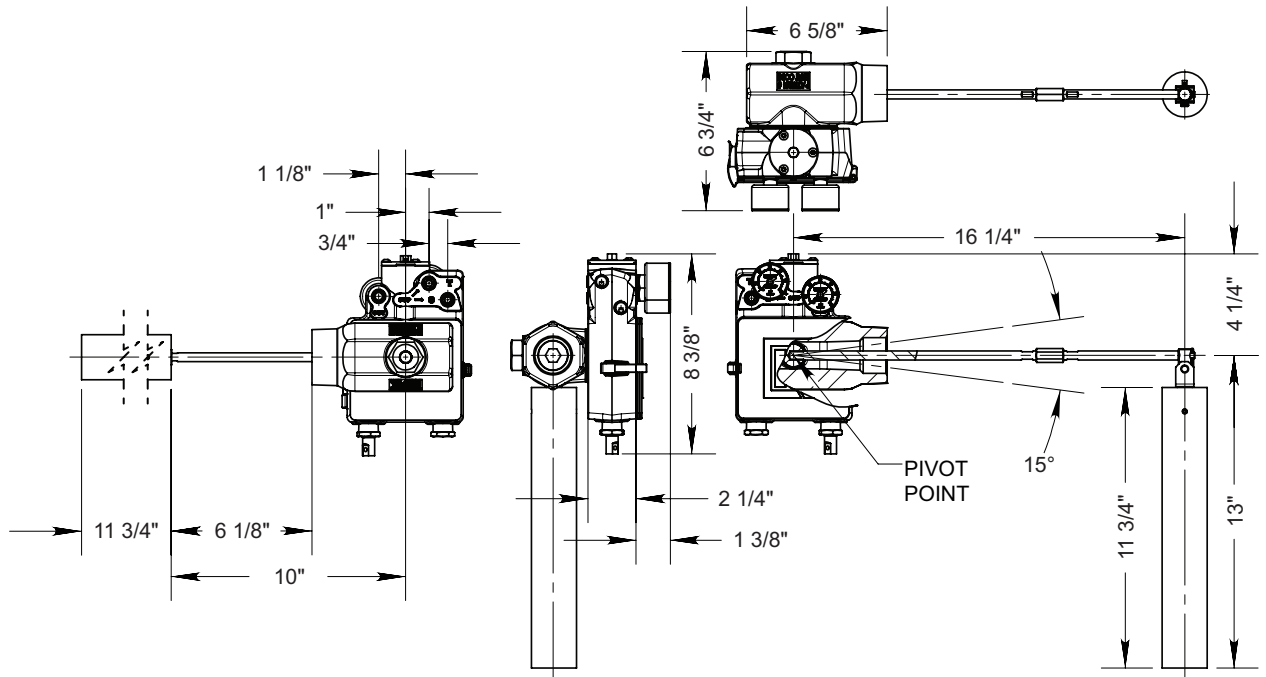
EXTENSION RODS KITS				
Extension Kit	Length	Coupling	Spring	Arm Ext.
LPA	6"	5454	7726	5543L6
LPB	12"	5454	7726	5543L12
LPC	18"	5454	7726	5543L18



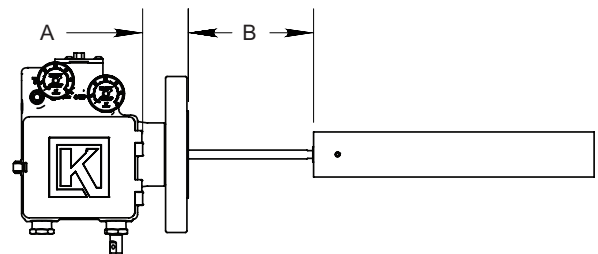
ITEM	DESCRIPTION	HORIZONTAL (STD.)		VERTICAL (STD.)		HANGING		SPLIT	
		PART NO	QTY.	PART NO	QTY.	PART NO	QTY.	PART NO	QTY.
1	Displacer	7637A	1	7637A	1	7637A	1	* 5560	2
2	Displacer ARM			5453	1	* 5453	1	* 5453	1
3	Hanger Block			6541	1	* 6541	1	* 5546SS6	1
4	U Bracket / Bushing			7577	1		1	* 6557SS6	3
5	Bolt			7696S6	1				
6	Cotter Pin			363	1	* 363	1	* 363	3
7	Clevis Pin			7168	1			* 7168	1
8	Cotter Pin			7169	1			* 7169	1
9	Cable Clamp					* 7722S6	1		
10	Cable (10 foot length)					* 7711S6	1		
11	Vented Bolt					* 7943S6	1		
12	Chain (8 foot length)							* 2826	1
	Screw							* 5547SS6	2
	Coupling (not shown)					* 5454	1	* 5454	1
Kit Number						LXX		CMP	

* These parts are stocked as repair kits.

All Pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.



VERTICAL GEN 3



HORIZONTAL GEN 3

FLANGES		150#			300#			600#			900#			1500#		
TYPE	SIZE	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
GEN 3	Raised Face	2"	1 31/32	5 1/2	11 11/16	2 5/32	5 5/16	11 1/2	2 15/32	5	11 3/16	----	----	2 31/32	4 1/2	10 11/16
		3"	1 31/32	5 1/2	11 11/16	2 11/32	5 1/8	11 5/16	2 23/32	4 3/4	10 15/16	3 11/32	4 1/8	10 5/16	4 3/32	9 9/16
		4"	2 5/32	5 5/16	11 1/2	2 15/32	5	11 3/16	2 31/32	4 1/2	10 11/16	2 29/32	4 9/16	10 3/4	3 17/32	10 1/8
		6"	----	----	----	----	----	----	----	----	----	----	----	4 13/32	3 1/16	9 3/32
	Ring Joint	2"	----	----	----	----	----	----	2 17/32	4 15/16	11 1/8	----	----	2 23/32	4 3/4	10 15/16
		3"	----	----	----	----	----	----	2 15/32	5	11 3/16	3 1/32	4 7/16	10 5/8	----	----
		4"	----	----	----	----	----	----	3 1/32	4 7/16	10 5/8	----	----	----	----	----

Table 1 - GEN 3 Seal Options

Product Type	Part	Standard Material	Optional Material
Pneumatic	Mounting Piece	FKM	AFLAS®, HSN,
	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
Pneumatic Switch	O-rings	FKM	N/A
	Diaphragm	FKM	LTN

Table 3 - Seal Specifications

		NITRILE	LOW TEMP NITRILE	HIGHLY SATURATED NITRILE	FKM	AFLAS®
	Kimray Suffix	-	LTN	HSN	V	AF
Resistance	Abrasion	G	G	G-E	G	G
	Acid	F	F	G-E	G-E	E
	Chemical	F	F	F	E	E
	Cold	G	E	G	P	P
	Flame	P	P	P	E	E
	Heat	G	G	E	E	E
	Oil	G-E	G-E	E	E	E
	Ozone	P	P	G	G-E	E
	Set	G	G	G	G-E	P
	Tear	F	F	F	F	P
	Water/Steam	F	F	E	P	G
	Weather	F	F	G	E	E
	CO2	F-G	F-G	G	G	G
	H2S	P	P	F	P	E
	Methanol	F	P	E	P	P
Properties	Dynamic	G	G	G	G	G
	Electrical	F	F	F	F	G-E
	Impermeability	G	G	G	G	G
	Tensile Strength	G	G	G-E	G	F
RATINGS: P-POOR, F-FAIR, G-GOOD, E-EXCELLENT						

Table 4 - Material Options			
	Component	Standard Material	Optional Material
Pneumatic GEN3 Level Controllers	Body	Steel (ASTM SA352LCB)	N/A
	Pilot	Aluminum (ASTM B221 6061-T6)	N/A
	Shaft & Bearing Hubs	Steel (ASTM)	316SS (ASTM A240)
	Bearings	Polyimide filled PTFE	N/A
	Levers	Steel (FLN2C-4005)	N/A
	Displacer	PVC	316SS (ASTM A 240)
	Spring	17-7SS (ASTM A313)	N/A
Pneumatic Level Switches	Body	Aluminum (ASTM B221 6061-T6)	N/A
	Float	316SS (ASTM A 240)	HDPE (ASTM D4976)
External Float Cages	Electronic & Pneumatic Level Switch Float Cage	Steel (ASTM SA352LCB)	316SS (ASTM A351 CF8M)
	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

FLOAT OPERATED CONTROLLERS



CODE BUILDER

F SERIES (LEVEL CONTROLS)

Series:

F = Float Operated Controllers

Model:

PL = GEN 3 Pneumatic Level Controller

Connection Size:

2 = 2 NPS
3 = 3 NPS
4 = 4 NPS
5 = 5 NPS (HU only)
6 = 6 NPS

End Connection:

S4 = 4000 psi MNPT - 2 inch only

AR = 150 RF

BR = 300 RF

DR = 600 RF

ER = 900 RF

FR = 1500 RF

DJ = 600 RTJ

EJ = 900 RTJ

FJ = 1500 RTJ

HU = Hammer Union - 3,4,5 inch only

GV = Grooved - 2 inch L & R only (PC & EC only)

Mounting Type:

L = Left Side Mount
R = Right Side Mount
B = Back Mount (PC & EC only)

Displacer Type:

Displacer Extensions:

A = None
B = 6 inch
C = 12 inch
D = 18 inch

1 = 1 7/8 x 12

2 = 1 7/8 x 20

3 = 2 3/4 x 14 1/4

4 = 2 1/2 x 12

5 = 1 7/8 x 5 11/16

6 = 1 3/4 x 12

7 = 1 3/4 x 20

Poly
4000 psi

316SS
2000 psi

Service Type:

S = Standard
C = Corrosive

F PL 2 S4 B 1 A S

Options: Additional cost and lead times will apply

If multiple options required input in sequential order

Leave blank if no options required

1 = NACE Certification (Corrosive Option Only)

2 = Hydrostatic Test Certification

3 = MTR (Shell Components)

A = AFLAS Elastomer

H = HSN Elastomer

X = Export (Hydrostatic test, MTR & 3.1)

Not all selections available on all products listed.
See product pages 08:10.1 - 08:30.3 for available options