

Wellmark Series 1800

Pneumatic and electric liquid level control, low pressure no-bleed

Application

The Wellmark Series 1800 Liquid Level Control offers design simplicity, easy installation, adjustment, and reliable liquid-level monitoring. The Series 1800 can be equipped with a snap action 3-way 2-port valve (1800M) or an electrical contact switch (1800E). The 1800 is actuated by movable arms that permit the control range to be adjusted easily and accurately set to the range desired. With the liquid level below the float, the 3-way 2-port valve, or micro switch, will be in low level position and will remain there until the float rises to the pre-set high level. The 3-way 2-port valve, or micro switch, reverses positions as the float rises or drops through the pre-set level. The 1800 Liquid Level Control can be used in oil and gas processing, manufacturing plants, hazardous waste disposal, food processing, petro-chemical facilities, or wherever fluid levels need to be monitored or controlled.

Installation

The Series 1800 is available with various standard pipe closures.

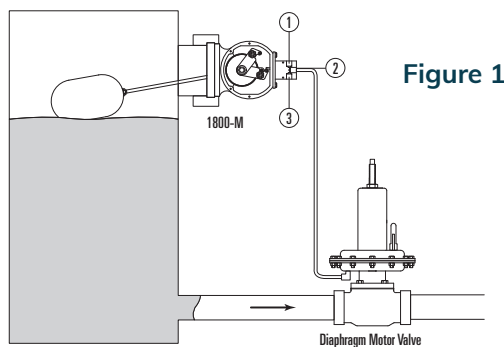


Figure 1

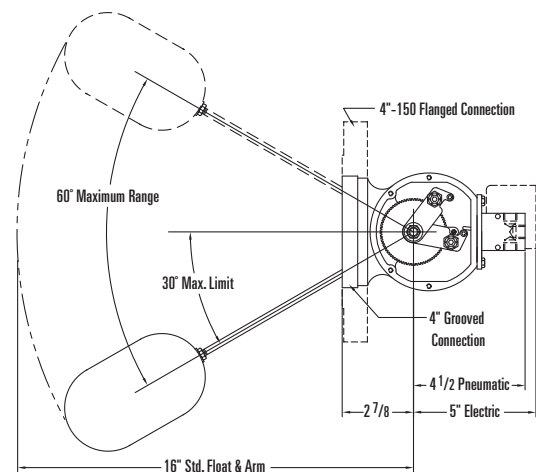
Pneumatic control valve piping

The Series Model 1800 Pneumatic Level Control is equipped with a 3-way 2-port valve with three 1/4" NPT ports. The 3-way 2-port valve has a standard working pressure of 100 psi. The connections to the ports depend on the control action desired. Port positions are shown below. Reference Figure 1.

With Float At Low Level	With Float At High Level
PORT 1 CLOSED TO 2	PORT 1 OPEN TO 2
PORT 2 COMMON	PORT 2 COMMON
PORT 3 OPEN TO 2	PORT 3 CLOSED TO 2



Dimensional data

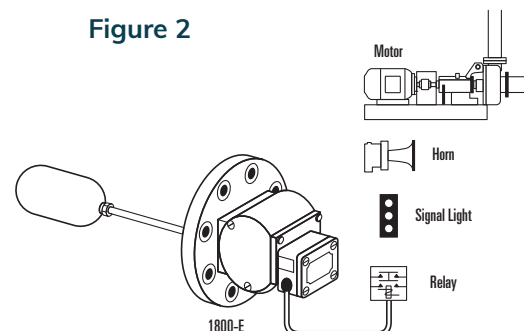


The Series Model 1800 Electric Level Control provides electrical contact switch closure for alarm or control functions. Reference Figure 2.

Explosion proof

Electric switch, SPDT

UL and CSA listed: "L96" 15 amps, 125, 250, or 480 VAC; 1/8 HP-125 VAC, 1/4 HP-250 VAC
1/2 amp-125 VDC, 1/4 amp-250 VDC



Model code

Determining the model code

Example given: Standard model 4G-1800-M-series 1800, 4" grooved connection, pneumatic type control.

1800 4 G 1800 M -

A
B
C
D
E

A END CONNECTION SIZE	
CODE	SIZE
4	4"

B CONNECTION TYPE	
CODE	TYPE
F	Flanged (Cl. 150RF)
G	Grooved

C PRODUCT LINE SERIES	
CODE	SERIES
1800	1800 Series

D OUTPUT SIGNAL	
CODE	TYPE
M	Pneumatic (3-Way Valve)
E	Electric (SPDT Only)

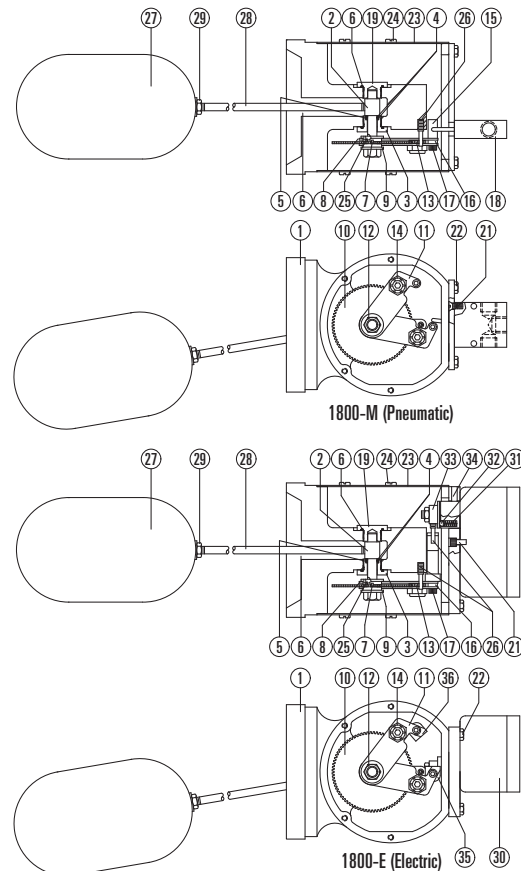
E ADDITIONAL OPTIONS	
CODE	OPTION
-	Top Level
INT	Interface (Liquid/Liquid)
LA	Less Arm
LF	Less Float

Please specify float size and arm length when selecting the model code

AVAILABLE FLOATS	
SIZE	MATERIAL
3.5" x 6"	316SS
3.5" x 12"	316SS

*Available Arm lengths: 10", 12", 18", 24". For other sizes, C/F

Item	Description	Qty.	Part No.	
			1800-M	1800-E
1	BODY, 4" GROOVED, DUCTILE IRON	1	1120998	1120998
	BODY, 4" FLANGED, CL. 150RF, DUCTILE IRON	1	1119669	1119669
2	STEM, 303 STAINLESS STEEL	1	1119547	1119547
3	STEM RETAINER, BRASS	1	1120143	1120143
4	BACK UP RING, TEFLON®	2	1125988	1125988
5*	O-RING, BUNA-N	1	1001548	1001548
6*	O-RING, BUNA-N	2	1119527	1119527
7	PIN, 316 STAINLESS STEEL	1	1119110	1119110
8	GEAR COLLAR, 303 S.S.	1	1119105	1119105
9	GEAR COLLAR, 303 S.S.	1	1123356	1123356
10	GEAR, STEEL NICKLE PLATED	1	1119242	1119242
11	ACTUATOR ARM, 303 S.S.	4	1123286	1123286
12	NUT, STEEL PLATED	1	1121120	1121120
13	PINION GEAR, BRASS	2	1126669	1126669
14	NUT, STEEL PLATED	2	1119978	1119978
15	ARM, 303 S.S.	2	1123167	1123167
16	SPACER, 303 S.S.	2	1125592	1125592
17	SCREW, STEEL PLATED	2	1122106	1122106
18*	3-WAY VALVE, ALUMINUM/S.S.	1	1122627	1122627
19	RETAINER, BRASS	1	1125281	1125281
20	MOUNTING PLATE, ALUMINUM	1	1122278	1122278
21	SCREW, STEEL PLATED	2/1	1119356	1120283
22	CAP SCREW, STEEL PLATED	4/3	1126045	1126045
23	COVER, STEEL	2	1124314	1124314
24	SCREW, STEEL PLATED	4	1124307	1124307
25	PIN, 17-4PH	1	1123285	1123285
26	STOPSWITCH ARM, STEEL	1/2	1121553	1121553
27	FLOAT 3 1/2"x6", STAINLESS STEEL	1	1121215	1121215
28	FLOAT ARM, STAINLESS STEEL, 10" STD.	1	1124652	1124652
29	JAM NUT, STAINLESS STEEL	1	1120092	1120092
30	MICRO SWITCH, EX-AR16	1	-	C/F
31	SPRING, STAINLESS STEEL	1	-	C/F
32	PLUG, DELRIN®	1	-	C/F
33	COLLAR, BRASS	1	-	1126222
34	SET SCREW, STEEL PLATED	1	-	1123158
35	ACTUATOR BLOCK, ALUMINUM	1	-	1120242
36	ACTUATOR BLOCK, ALUMINUM	1	-	1124317



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