

Flanged Chamber External Mount, Pressure to 1440 psig (99 bar), Hermetically Sealed Switches and Temperature to 475°F (246°C)



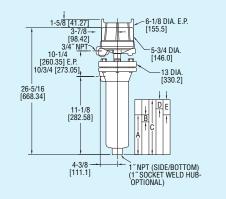
Series 1241

> Series 1241 has one vertical and one horizontal 1" NPT pipe connection. 1" socket weld optional.

"A" is the level at which single (or lower stage) operates on level rise.
"B" is the operating differential single (or lower stage) — drop in level to restore switch to original position.
"C" is the level at which the upper stage operates on level rise.
"D" is the operating differential of

upper stage — drop in level to restore switch to position.

"E" — the increase in level above "A" to operate upper stage.



ł.		Switch Level Change Single Stage Operation				Switch Level Change Two Stage Operation								
Series 1244 has two vertical flanges (1"		SP GR	A**	в	A**	в	с	D		Ordering Code				
	RF forged steel –	MIN SP GR 0.6 1440 psi (99 bar) @ 100°F (38°C)		6″ (152.4 mm)	15/16″ (23.81 mm)	6″ (152.4 mm)		7-1/8″ (180.98 mm)	13/16" (20.64 mm)	` '				
		1275 psi (87.9 bar) @ 475°F (246°C)		6-9/16″ 1 (166.69 mm) (3	1-1/4″ (31.75 mm)	6-9/16″ (166.69 mm)		7-11/16″ (195.26 mm)	-	1-1/8″ (28.58 mm)	C1-60			
	, i					**"A" is not ac	ljustable.							

A removeable stainless steel float enclosed in a flanged carbon steel chamber is featured in the durable, field proven 1241 series. External side mount series includes 1 "NPT process connections as standard or 1 " flanges as options. Pressure and temperature limits are 1440 psi (99 bar) at 100°F (38°C) and 1275 psi (87.9 bar) at 475°F (246°C). Minimum specific gravity for all models is 0.60. The models shown can be ordered with a variety of electrical arrangements including SPST, SPDT, or DPDT circuits in hermetically sealed snap action or mercury contacts. Switches can be ordered open on level rise or fall. Single pole double throw electrically independent circuits are available as well as low current or high DC current applications. A full range of enclosures are offered including general purpose NEMA-1; weatherproof NEMA-4X; (explosion-proof) and (explosion-proof) groups B, C, D, E, F, G, NEMA-7.9.

APPLICATIONS

Oil refineries, chemical plants, power generating stations, pumping stations, heat transfer systems, sanitary/waste water facilities, drip legs, hydraulic systems, boilers.

A is not adjustad

SPECIFICATIONS Minimum Specific Gravity: 0.60.

Switch Type: Snap action or mercury switch. See charts A and B. Electrical Ratings: See charts A and B.

Wiring Connections:

G, WT or E enclosure, terminal block;

EV enclosure, 18" (460 mm) leads.

Process Connections: 1" NPT standard (flanges optional); See model chart.

Enclosure Rating: See model chart.

Enclosure:

- G, painted steel and aluminum;
- WT, painted steel, aluminum and neoprene;
- E, aluminum;
- EV, aluminum and neoprene.

Wetted Parts: C1 construction. Chamber: carbon steel. Trim: 303SS, 304SS, and 430SS (316SS and 430SS optional). **Weight:** 1241, 34 lb (15 kg): 1243, 44 lb (20 kg): 1244, 51 lb (23 kg)

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Suggested Specifications

Liquid level control shall be 1241 (1243) (1244) Series with flanged carbon steel chamber. Process connections shall be 1" NPT (socket weld hub) (flanged). Unit shall be suitable for operation at 1440 psi (99 bar) at 100°F (38°C); 1275 psi (87.9 bar) at 475°F (246°C) with a minimum specific gravity of 0.60. Switch mechanism shall be gravity return and shall be activated by a stainless steel float. Circuit shall be (hermetically sealed) snap action (mercury) switch, (SPST) (SPDT) (DPDT). Enclosure shall be general purpose (weatherproof) (explosion-proof) (explosion-proof).

Repeatability ±61/49 (6.4 mm)

Model Chart - Series 1241

Example	1241	WT	7810	10	HF	C1	60		1241-WT-7810-C1-60. Liquid level control. Flanged carbon steel chamber. Weather-proof	
									enclosure. SPDT snap switch, fixed deadband, automatic reset. Operating pressure 1440	
									psig (99 bar) at 100°F (38°C) 1275 psi (87.9 bar) at 475°F (246°C). Side/bottom process	
									connections, 1" NPT. Minimum specific gravity 0.60.	
Enclosure		G							General purpose, NEMA-1.	
		WT							Weather-proof NEMA-3R, 4, 4X.	
		E							Explosion-proof NEMA-7, 9. Class I Groups B, C, D. Class II Groups E, F, G.	
		EV							Explosion-proof, vapor-proof NEMA-7, 9. Class I Groups B, C, D. Class II Groups E, F, G.	
Circuits			48XX						Single stage. Mercury switch. See chart A.	
			48XX	ΧХ					Two stage. Mercury switch. See chart A.	
			78XX						Single stage. Snap switch. See chart B.	
(For electrical			78XX	ΧХ					Two stage. Snap switch. See chart B.	
circuits see			78XXHM						Hermetically sealed snap switch. See chart B.	
charts A & B			98XX						Single stage. High capacity DC snap switch. Use heat fins (HF) if process temperature	
below)									exceeds 350°F (177°C). Do not exceed 450°F (232°C). See chart B.	
			98XX	XX					Two stage. High capacity DC snap switch. Use heat fins (HF) if process temperature	
									exceeds 350°F (177°C). Not to exceed 450°F (232°C). See chart B.	
			10XX						Single stage. High temperature snap switch. Continuous rating 800°F (425°C). See Chart B.	
									211-C1-60 type rated at 175 psi (12 bar).	
			10XX	XX					Two stage. High temperature snap switch. Continuous rating 800°F (425°C). See Chart B.	
									211-C1-60 type rated at 175 psi (12 bar).	
Flanged Chamber						C1			Carbon steel body.	
Construction 1"	1241					C1	60		Minimum specific gravity 0.60. Side/bottom process connections. 1" NPT hubs.	
NPT/HUBS									Pressure rating 1440 psig (99 bar) at 100°F (38°C), 1275 psi (87.9 bar) at 475°F (246°C).	
Flanged Chamber	1243					C1	660		1" 600# flanges side/bottom process connection. Pressure rating 1440 psi (99 bar) at 100°F	
Construction with									(38°C), 1275 psi (87.9 bar) at 475°F (246°C). Minimum specific gravity 0.60.	
. J	1244					C1	660		1" 600# flanges side/side process connection. Pressure rating 1440 psi (99 bar) at 100°F	
Connections									(38°C), 1275 psi (87.9 bar) at 475°F (246°C). Minimum specific gravity 0.60.	
Options					HF				High temperature fins should be considered if ambient temperature is extremely high or if	
									process temperature exceeds 500°F (260°C) for extended periods.	
						C216			316 SS chamber and trim. 430 SS armature.	
								12	Breather and drain for E type enclosure. Recommended for high humidity or outdoor service.	

Charts A & B - Electrical Circuits and Ratings

			Electr	ical Ra	tings in	AMPS	3	Ordering Code				
			AC		DC			Single	Two Stage			
Switch Type	Switch Action	120V	240V	440V	30VDC	125V	250V	Stage	Lower	Upper		
Chart A	SP-ST Open on level FALL	10	5	3†		10	5	-4821	-4821	-21		
Mercury	SP-ST Open on level RISE	10	5	3†		10	5	-4820	-4820	-20		
Contacts	SP-DT One switch	4	2	1†		4	2	-4810	-4810	-10		
	SP-DT Two switches E.I.*	10	5	3†		10	5	-4815	-4815	-15		
	DP-ST Two switches E.I.* Open on level FALL	10	5	3†		10	5	-4813	-4813	-13		
	DP-ST Two switches E.I.* Open on level RISE	10	5	3†		10	5	-4814	-4814	-14		
	DP-DT Two SP-DT switches	4	2	1†		4	2	-4806	-4806	-06		
Chart B	SP-DT One switch	12	5	3†		0.5**	0.25**	-7810	-7810	-10		
Snap	DP-DT Two SP-DT switches	12	5	3†		0.5**	0.25**	-7806	-7806	-06		
Action	SP-DT One hermetically sealed switch	5	5		5**			-7810HM	-7810HM	-10HM		
Contacts	DP-DT Two hermetically sealed SP-DT switches	5	5		5**			-7806HM	-7806HM	-06HM		
	DP-DT Two SP-DT switches	10	3			10‡	3‡	-9806	-9806	-06		
	SP-DT One switch	10	3			10‡	3‡	-9810	-9810	-10		
	DP-DT Two SP-DT switches	2	2			0.4**	0.25**	-1006	1006	-06		
	SP-DT One switch	2	2			0.4**	0.25**	-1010	-1010	-10		
	SP-DT One switch ndependent † Availal	ble on 0 beco	l special		Change 7810 bec	0.4** 1st die	0.25** git in O	-1010 dering Co		-10	r 7 t	7 to 8

LEVEL

Level Switches, Float