

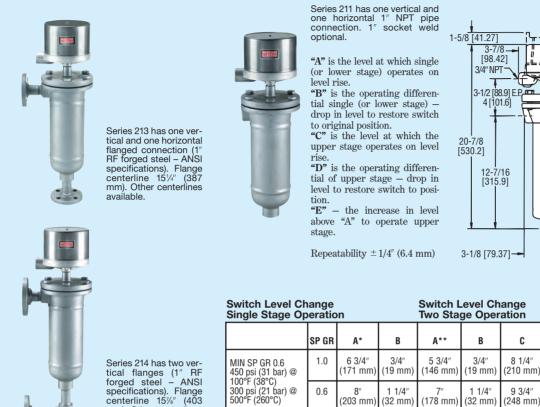
211

Flanged Chamber External Mount, Pressure to 450 psig (31 bar), Hermetically

Sealed Switches and Temperature to 500°F (260°C)



6-1/8 DIA. E.P.



[155.5] 5-3/4 DIA. [146.0] 6-1/2 DIA [165.1] 1" NPT (SIDE/BOTTOM) (1" SOCKET WELD HUB-OPTIONAL)

	Switch Level Ch Single Stage Op		n		Switch L Two Stag							
		SP GR A*		В	A**	В	C	D	E	ORDERING CODE		
	MIN SP GR 0.6 450 psi (31 bar) @ 100°F (38°C) 300 psi (21 bar) @ 500°F (260°C)	1.0	6 3/4″ (171 mm)	3/4″ (19 mm)	5 3/4″ (146 mm)	3/4″ (19 mm)	8 1/4″ (210 mm)	1 1/4″ (32 mm)	2 1/2″ (64 mm)	C1-60		
		0.6	8″ (203 mm)	1 1/4″ (32 mm)	7″ (178 mm)	1 1/4″ (32 mm)	9 3/4″ (248 mm)	2″ (51 mm)	2 3/4″ (70 mm)			
	*"A" is adjustable ± 1	".	**"A" is not adjustable.									

A removable stainless steel float enclosed in a flanged carbon steel chamber is featured in the durable, field proven 211 Series. External side mount series includes 1" NPT process connections as standard, or with socket weld hubs; or, 1" flanges as options. Pressure and temperature limits are 450 psi (31 bar) at 100°F (38°C), and 300 psi (21 bar) at 500°F (260°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; (explosionproof) and (explosion-proof - vapor proof) groups B, C, D, E, F, G, NEMA-7 - 9.

mm). Other centerlines

avaílable

APPLICATIONS

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

SPECIFICATIONS

Minimum Specific Gravity: 0.60

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

Electrical Rating: 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 (socket weld hubs or flanges optional). See model chart.

Enclosures: 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: 211, 34 lb (15 kg); 213, 44 lb (20 kg); 214, 51 lb (23 kg).

Suggested Specifications

Liquid level control shall be 211 (213) (214) Series with flanged carbon steel chamber. Process connections shall be 1" NPT (socket weld hub) (flanged). Unit shall be suitable for operation at 450 psi (31 bar) and 100°F (38°C), 300 psi (21 bar) and 500°F (260°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 (mercurv) switch, (SPST) (SPDT) (DPDT). Enclosure shall be general purpose (weatherproof) (explosion-proof) (explosion- proof vapor proof).

MODEL CHART – SERIES 211

EXAMPLE	211	WT	7810	10	HF	C1	60			211-WT-7810-CI-60. Liquid level control. Flanged carbon steel chamber. Weather proof enclosure. SPDT snap switch, fixed deadband, automatic reset. Operating pressure 450 psig (31 bar) at 100°F (38°C), 300 psig (21 bar) at 500°F (260°C). Side/bottom process connections, 1" NPT. Minimum specific gravity 0.60.		
ENCLOSURE		G WT E								General purpose, NEMA-1. Weather proof, NEMA-3R, 4, 4X. Explosion proof, NEMA-7, 9. Class I Groups B, C, D. Class II Groups E, F, G. (CSA approved Groups C, D, E, F, G only). Explosion proof, vapor proof, NEMA-7, 9. Class I Groups B, C, D. Class II Groups E, F, G. (CSA approved groups C, D, E, F, G only).	UL UL UL	CSA CSA CSA
CIRCUITS (For Electrical Circuits see charts A & B below.)			48XX 48XX 78XX 78XX 78XXHM 98XX 98XX 10XX	xx xx xx xx						Single stage. Mercury switch. See Chart A. Two stage. Mercury switch. See Chart A. Single stage. Snap switch. See Chart B. Two stage. Snap switch. See Chart B. Hermetically sealed snap switch. See Chart B. Single stage. High capacity DC snap switch. Use heat fins (HF) if process temperature exceeds 350°F (177°C). Do not exceed 450°F (232°C). See Chart B. Two stage. High capacity DC snap switch. Use heat fins (HF) if process temperature exceeds 350°F (177°C). No not exceed 450°F (232°C). See Chart B. Two stage. High capacity DC snap switch. Use heat fins (HF) if process temperature exceeds 350°F (177°C). No not exceed 450°F (232°C). See Chart B. 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). 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 Construction 1" NPT HUBS	211					C1 C1	60			Carbon steel body. Minimum specific gravity 0.60. Side/bottom process connections. 1" NPT hubs. Pressure rating 450 psig (31 bar) at 100°F (38°C), 300 psi (21 bar) at 500°F (260°C).	UL UL	CSA CSA
FLANGED CHAMBER CONSTRUCTION WITH FLANGED PROCESS CONNECTIONS	213 213 213 214 214 214 214					C1 C1 C1 C1 C1 C1	160 360 660 160 360 660			1" 150# flanges side/bottom process connection. Pressure rating 275 psi (19 bar) at 100°F (38°C), 150 psi (10 bar) at 500°F (260°C). Minimum specific gravity 0.60. 1" 300# flanges side/bottom process connection. Pressure rating 450 psi (31 bar) at 100°F (38°C), 300 psi (21 bar) at 500°F (260°C). Minimum specific gravity 0.60. 1" 600# flanges side/bottom process connection. Pressure rating 450 psi (31 bar) at 100°F (38°C), 300 psi (21 bar) at 500°F (260°C). Minimum specific gravity 0.60. 1" 150# flanges side/side process connection. Pressure rating 275 psi (19 bar) at 100°F (38°C), 150 psi (10 bar) at 500°F (260°C). Minimum specific gravity 0.60. 1" 300# flanges side/side process connection. Pressure rating 450 psi (31 bar) at 100°F (38°C), 300 psi (21 bar) at 500°F (260°C). Minimum specific gravity 0.60. 1" 300# flanges side/side process connection. Pressure rating 450 psi (31 bar) at 100°F (38°C), 300 psi (21 bar) at 500°F (260°C). Minimum specific gravity 0.60. 1" 600# flanges side/side process connection. Pressure rating 450 psi (31 bar) at 100°F (38°C), 300 psi (21 bar) at 500°F (260°C). Minimum specific gravity 0.60.	UL UL UL UL UL	CSA CSA CSA CSA CSA CSA
OPTIONS					HF	C216		H2	12	High temperature fins should be considered if ambient temperature is extremely high or if process temperature exceeds 500°F (260°C) for extended periods. 316SS chamber and trim. 430SS armature. 1" socket weld hub instead of 1" NPT. Breather and drain for E type enclosure. Recommended for high humidity or outdoor service.	UL	CSA

CHARTS A & B - ELECTRICAL CIRCUITS AND RATINGS

		ELECTRICAL RATINGS IN AMPS							ORDERING CODE			
SWITCH	SWITCH		AC		DC			SINGLE	TWO STAGE			
TYPE	ACTION	120V	240V	440V	30VDC	125V	250V	STAGE	LOWER	UPPER		
	SP-ST Open on level FALL	10	5	3†		10	5	-4821	-4821	-21	UL	CSA
	SP-ST Open on level RISE	10	5	3†		10	5	-4820	-4820	-20	UL	CSA
CHART A	SP-DT One Switch	4	2	1†		4	2	-4810	-4810	-10	UL	CSA
Mercury	SP-DT Two switches E.I.*	10	5	3†		10	5	-4815	-4815	-15	UL	CSA
Contacts	DP-ST Two switches E.I.* Open on level FALL	10	5	3†		10	5	-4813	-4813	-13	UL	CSA
	DP-ST Two switches E.I.* Open on level RISE	10	5	3†		10	5	-4814	-4814	-14	UL	CSA
	DP-DT Two SP-DT switches	4	2	1†		4	2	-4806	-4806	-06	UL	CSA
	SP-DT One switch	12	5	3†		0.5**	0.25**	-7810	-7810	-10	UL	CSA
	DP-DT Two SP-DT switches	12	5	3†		0.5**	0.25**	-7806	-7806	-06	UL	CSA
CHART B	SP-DT One hermetically sealed switch	5	5		5**			-7810HM	-7810HM	-10HM		
Snap	DP-DT Two hermetically sealed SP-DT switches	5	5		5**			-7806HM	-7806HM	-06HM		
Action	DP-DT Two SP-DT switches	10	3			10‡	3‡	-9806	-9806	-06		
Contacts	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		
*Electrically Independent \$\$\phi10 Amp inductive (Polarized) at 125 VDC \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$												

CALL TO ORDER: U.S. Phone 219 879-8000 • U.K. Phone (+44) (0)1494-461707 • Asia Pacific Phone 61 2 4272-2055

Level