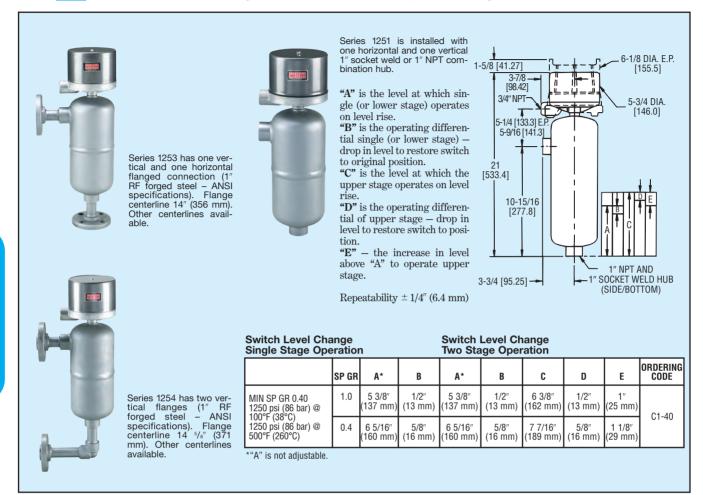


Welded Chamber

Min. Specific Gravity 0.40, Pressure to 1250 psig (86 bar), and Temperature to 500°F (260°C), Hermetically Sealed Switches





Leak proof all welded heavy duty carbon steel bodies coupled with snap action or mercury switches provide reliable, long term service for compatible liquids. The use of an external magnet reduces the possibility of magnetic particle build-up inside the armature tube and subsequent loss of operation as may occur with the internal magnet repulsion design. A variety of snap action or mercury switches in SPST, SPDT, DPDT or DPST configurations will satisfy most electrical requirements. These switch assemblies are contained in NEMA-1 general purpose, NEMA-4X weatherproof, NEMA-7-9 groups B, C, D, E, F, G, explosion-proof or explosion-proof - vapor proof enclosures.

APPLICATIONS

Refineries, chemical plants, power generating stations, water treatment plants, mixing systems, scrubbers, accumulators, condensate recovery, industrial tanks and vessels.

SPECIFICATIONS

C1-40: Minimum specific gravity 0.40. Process pressure 1250 psi (86 bar) at 100°F (38°C) to 500°F (260°C).

Switch Type: Snap action or mercury. 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 Connection: Combination 1" NPT/socket weld hubs or flanges. 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, 316SS and 430SS.

Weight: 1251, 40 lb (18 kg); 1253, 50 lb (22.7 kg); 1254, 57 lb (25.8 kg).

Suggested Specifications

Liquid level control shall be 1251 (1253) (1254) Series with 1" combination NPT/socket weld hub (flanged) process connections. Chamber shall be welded and suitable for operation at 1250 psig (86 bar) and 500°F (260°C) with a minimum specific gravity of 0.40. Circuit shall be hermetically sealed snap action (mercury) switch (SPST) (SPDT) (DPDT). Enclosure shall be general purpose, (explosion-proof) (explosion-proof – vapor proof). Switch mechanism shall be gravity return and shall be activated by a stainless steel float.

MODEL CHA	ART -	- SI	ERIES 1	1251				L3. 1+201-419-0120 www.warwic	,
EXAMPLE ENCLOSURE	1251	G WT E EV	7810	10	C1	40		1251-WT-7810-C1-40. Liquid level control. Welded carbon steel chamber. Weather proof enclosure. SPDT snap switch, fixed deadband, automatic reset. Operating pressure 1250 psig (86 bar) at 100°F (38°C), 1250 psig (86 bar) at 500°F (260°C). Side/bottom process connections, combination 1" NPT/socket weld hubs. Minimum specific gravity 0.40. 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. Explosion proof, vapor proof. NEMA-7, 9. Class I Groups B, C, D. Class II Groups E, F, G.	UL UL UL
CIRCUITS (For Electrical Circuits see charts A & B below.)			48XX 48XX 78XX 78XX 78XXHM 98XX	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). Do not exceed 450°F (232°C). See Chart B.	
WELDED CHAMBER CONSTRUCTION COMBINATION 1" NPT/SOCKET WELD HUBS	1251				C1 C1	40		Carbon steel body. Minimum specific gravity 0.40. Side/bottom process connections. Combination 1" NPT/socket weld hub. Pressure rating 1250 psig (86 bar) at 100°F (38°C) to 500°F (260°C).	UL
WELDED CHAMBER CONSTRUCTION WITH FLANGED PROCESS CONNECTIONS	1253 1253 1254 1254 1254				C1 C1 C1 C1 C1 C1	140 340 640 140 340 640		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 0.40. 1" 300# flanges side/bottom process connection. Pressure rating 720 psi (50 bar) at 100°F (38°C), 625 psi (43 bar) at 500°F (260°C). Minimum specific gravity 0.40. 1" 600# flanges side/bottom process connection. Pressure rating 1250 psi (86 bar) at 100°F (38°C), 1250 psi (86 bar) at 500°F (260°C). Minimum specific gravity 0.40. 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 0.40. 1" 300# flanges side/side process connection. Pressure rating 720 psi (50 bar) at 100°F (38°C), 625 psi (43 bar) at 500°F (260°C). Minimum specific gravity 0.40. 1" 600# flanges side/side process connection. Pressure rating 1250 psi (86 bar) at 100°F (38°C), 1250 psi (86 bar) at 500°F (260°C). Minimum specific gravity 0.40.	
OPTIONS					C216		12	316SS chamber and trim. 430SS armature. Breather and drain for E type enclosure. Recommended for high humidity or outdoor service.	UL

SALES: 1+201-419-6120

CHARTS A & B - ELECTRICAL CIRCUITS AND RATINGS

		ELECTRICAL RATINGS IN AMPS							ORDERING CODE		
SWITCH Type	SWITCH ACTION		AC		DC			SINGLE STAGE TWO ST		STAGE	
		120V	240V	440V	30V	125V	250V		LOWER	UPPER	
CHART A Mercury Contacts	SP-ST Open on level FALL	10	5	3†		10	5	-4820	-4820	-21	UL
	SP-ST Open on level RISE	10	5	3†		10	5	-4821	-4821	-20	UL
	SP-DT One Switch	4	2	1†		4	2	-4810	-4810	-10	UL
	SP-DT Two switches E.I.*	10	5	3†		10	5	-4815	-4815	-15	UL
	DP-ST Two switches E.I.* Open on level FALL	10	5	3†		10	5	-4814	-4814	-13	UL
	DP-ST Two switches E.I.* Open on level RISE	10	5	3†		10	5	-4813	-4813	-14	UL
	DP-DT Two SP-DT switches	4	2	1†		4	2	-4806	-4806	-06	UL
CHART B Snap Action Contacts	SP-DT One switch	12	5	3†		0.5**	0.25**	-7810	-7810	-10	UL
	DP-DT Two SP-DT switches	12	5	3†		0.5**	0.25**	-7806	-7806	-06	UL
	SP-DT One hermetically sealed switch	5	5		5**			-7810HM	-7810HM	-10HM	
	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	
*Electrically Independent †Available on special order. Change 1st digit in Ordering Code from 4 to 5 or 7 to 8 ±10 Amp inductive (Polarized) at 125 VDC i.e4820 becomes -5820, -7810 becomes -8810, etc. **Resistive											