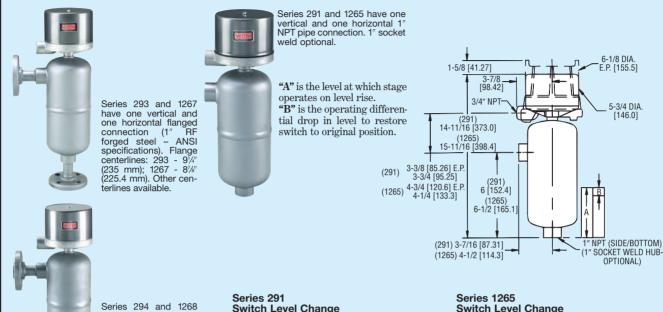


Series 291/1265 Welded Chamber

Single Stage, Low Cost, Hermetically Sealed Snap Switches, Series 291: Pressure 300 psig (24 bar) to 600°F (315°C). Series 1265: Pressure 1500 psig (103 bar) to 300°F (149°C)





vertical two have flanged connections (1 RF forged steel – ANSI specifications). Flange centerlines: 294 - 10" (254 mm); 1268 - 9%" (244.5 mm). Other centerlines available

Switch Level Change Single Stage-Not Adjustable

CODE	SP GR	Α	В
C1-60	1.0	3 1/4" (82.55 mm)	7/8" (22 mm)
	0.60	3 5/8" (92 mm)	1 1/8" (28.6 mm)

Switch Level Change Single Stage-Not Adjustable

CODE	SP GR	Α	В		
C1-40	1.0	4" (101.6 mm)	5/8" (16 mm)		
01 40	0.40	3 5/16" (135 mm)	1 3/8" (35 mm)		

Series 291: Inexpensive yet rugged construction in a welded chamber control. The 291 series is specifically designed for single stage operation where pressure does not exceed 350 psig (24 bar) at 100°F (38°C) or 300 psig (21 bar) at 600°F (315°C) available with a variety of hermetically sealed snap switch or mercury switch circuits protected by a general purpose, weatherproof or explosionproof enclosure and will accommodate specific gravities down to 0.60.

SPECIFICATIONS

C1-60: Minimum specific gravity. Process pressure 350 psig (24 bar) at 100°F (38°C), 300 psig (21 bar) at 600°F (315°C).

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

Electrical Rating: See chart.

Wiring Connections: G, WT or E enclosure, terminal block. EV enclosure 18" (460 mm) leads

Process Connection: 1" NPT (socket weld hubs or flanged optional)

Enclosures: G, painted steel and aluminum; WT, painted steel, aluminum and neoprene; E, aluminum; EV, aluminum and neoprene

Wetted Parts: C1 construction, carbon steel, 303SS, 304SS, 430SS. Weight: 291, 10 lb (4.5 kg); 293, 15 lb (6.8 kg); 294, 17 lb

(7.7 kg).

Suggested Specifications

Liquid level control shall be 291 (293) (294) series with 1" NPT (socket weld hubs) (flanged) process connections. Chamber shall be welded carbon steel (316SS) suitable for operation at 350 psig (24 bar) at 100°F (38°C) and 300 psig (21 bar) at 600°F (315°C) with a minimum specific gravity of 0.60. Circuit shall be (hermetically sealed) snap action (mercury) switch (SPST) (SPDT) (DPDT). Switch mechanism shall be gravity return activated by a stainless steel float. Enclosure shall be general purpose, (weatherproof), (explosionproof), (explosion-proof, vapor proof)

APPLICATIONS

Refineries, chemical plants, power generating stations, water treatment

Series 1265: High pressure is featured in the 1265 series, with a welded chamber and single stage operation. This control is rated at 1500 psig (103 bar) and 300°F (149°C) with a minimum specific gravity of 0.40. Choice of enclosures include general purpose, weatherproof or explosion-proof. Hermetically sealed snap action or mercury switches are available in a variety of circuits.

SPECIFICATIONS

C1-40: Minimum specific gravity. Process pressure 1500 psig (103 bar) at 300°F (149°C).

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

Electrical Rating: See charts A and B.

Wiring Connections: G, W or E enclosure, terminal block. EV enclosure 18" (460 mm) leads.

Process Connections: 1" NPT (socket weld hubs or flanged optional). Enclosures: G, painted steel and aluminum; WT, painted steel, aluminum and neoprene. E, aluminum. EV, aluminum and neoprene.

Wetted Parts: C1 construction, carbon steel, 303SS, 304SS, 430SS

Weight: 1265, 15 lb (6.8 kg); 1267, 20 lb (9 kg); 1268, 22 lb (10 kg).

Suggested Specifications

Liquid level control shall be 1265 (1267) (1268) series with 1" NPT (socket weld hubs) (flanged) process connections. Chamber shall be welded carbon steel (316SS) suitable for operation at 1500 psig (103 bar) at 300°F (149°C) with a minimum specific gravity of 0.40. Circuit shall be (hermetically sealed) snap action (mercury) switch (SPST) (SPDT) (DPDT). Switch mechanism shall be gravity return activated by a graphite displacer. Enclosure shall be general purpose (weatherproof), (explosion-proof), (explosion-proof, vapor proof).

APPLICATIONS

Refineries, chemical plants, power generating stations, water treatment facilities.

MODEL CHA	RT	- SE	ERIES	291			SALES: 1+201-419-6120 www.warwio	cky.co
EXAMPLE	291	WT	7810BN	C1	60		291-WT-7810-C1-60. Liquid level control with welded carbon steel chamber. General purpose enclosure. Single pole double throw snap action switch rated at 12 amp 120 VAC; 5 amp 240 VAC. Fixed deadband and automatic reset. Operating pressure 350 psig (24 bar) at 100°F (38°C), 300 psig (21 bar) at 600°F (315°C). Side/bottom process connections 1° NPT. Minimum specific gravity 0.60.	
ENCLOSURE		G WT E EV					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 UL
CIRCUITS (For Electrical Circuits see charts A & B below.)			48XXBN 78XXBN 98XXBN				Single stage. Mercury switch. See Chart A. Single stage. Snap switch. See Chart B. Single stage. Snap switch 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 1" NPT PROCESS CONNECTIONS	291			C1 C1	60		Carbon steel body. Minimum specific gravity 0.60. Side/bottom process connections. 1" NPT. Pressure rating 350 psig (24 bar) at 100°F (38°C), 300 psig (21 bar) at 600°F (315°C).	UL UL
	293			C1	160		1" 150# RF flanges side/bottom process connection. Pressure rating 275 psi (19 bar) at 100°F (38°C),	UL
WELDED CHAMBER CONSTRUCTION	293			C1	360		150 psi (10 bar) at 600°F (315°C). Minimum specific gravity 0.60. 1" 300# RF flanges side/bottom process connection. Pressure rating 350 psi (24 bar) at 100°F (38°C),	UL
WITH FLANGED PROCESS	294			C1	160		300 psi (21 bar) at 600°F (315°C). Minmum specific gravity 0.60. 1" 150# RF flanges side/side process connection. Pressure rating 275 psi (19 bar) at 100°F (38°C),	UL
CONNECTIONS	294			C1	360		150 psi (10 bar) at 600°F (315°C). Minimum specific gravity 0.60. 1" 300# RF flanges side/side process connection. Pressure rating 350 psi (24 bar) at 100°F (38°C), 300 psi (21 bar) at 600°F (315°C). Minimum specific gravity 0.60.	UL
OPTIONS				C216		H2	316SS chamber and trim. 430SS armature. 1" socket weld hubs in place of 1" NPT process connections.	

MODEL CHART - SERIES 1265

MODEL OIL			LITILO		•				
ENCLOSURE	1265	WT G WT E EV	7810	C1	40			1265-WT-7810-C1-40. Liquid level control with welded carbon steel chamber. Watertight - NEMA-4X. Enclosure. Single pole double throw snap action switch rated at 12 amp 120 VAC, 5 amp 240 VAC, Fixed deadband and automatic reset. Operating pressure 1500 psig (103 bar) at 300°F (149°C). Maximum side/bottom process connections 1" NPT. Minimum specific gravity 0.40. General purpose, NEMA-1. Weatherproof, NEMA-3R, 4, 4X. Explosion-proof, NEMA-7, 9. Class I Group B, C, D. Class II Group E, F, G. Explosion-proof, vapor proof, NEMA-7, 9. Class I Group B, C, D. Class II Group E, F, G.	UL UL
CIRCUITS			48XX 78XX 78XXHM 98XX					Single stage. Mercury switch. See Chart A. Single stage. Snap switch. See Chart B. Hermetically sealed snap switch. See Chart B. Single stage. High DC capacity 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 1" NPT PROCESS CONNECTIONS	1265			C1 C1	40			Carbon steel body. Minimum specific gravity 0.40. Side/bottom process connections. 1" NPT. Pressure rating 1500 psig (103 bar) at 300°F (149°C).	UL UL
WELDED CHAMBER CONSTRUCTION WITH FLANGED PROCESS CONNECTIONS	1267 1267 1267 1267 1268 1268 1268 1268			C1 C1 C1 C1 C1 C1 C1	140 340 640 1540 140 340 640 1540			1" 150# RF flanges side/bottom process connection. Pressure rating 275 psi (19 bar) at 100°F (38°C), 210 psi (14 bar) at 300°F (149°C). Minimum specific gravity 0.40. 1" 300# RF flanges side/bottom process connection. Pressure rating 720 psi (50 bar) at 100°F (38°C), 680 psi (47 bar) at 300°F (149°C). Minimum specific gravity 0.40. 1" 600# RF flanges side/bottom process connection. Pressure rating 1440 psi (99 bar) at 100°F (38°C), 1365 psi (94 bar) at 300°F (149°C). Minimum specific gravity 0.40. 1" 1500# RF flanges side/bottom process connection. Pressure rating 1500 psi (103 bar) at 100°F (38°C), 1500 psi (103 bar) at 300°F (149°C). Minimum specific gravity 0.40. 1" 150# RF flanges side/side process connection. Pressure rating 275 psi (19 bar) at 100°F (38°C), 210 psi (14 bar) at 300°F (149°C). Minimum specific gravity 0.40. 1" 300# RF flanges side/side process connection. Pressure rating 720 psi (50 bar) at 100°F (38°C), 680 psi (47 bar) at 300°F (149°C). Minimum specific gravity 0.40. 1" 600# RF flanges side/side process connection. Pressure rating 1440 psi (99 bar) at 100°F (38°C), 1365 psi (94 bar) at 300°F (149°C). Minimum specific gravity 0.40. 1" 1500# RF flanges side/side process connection. Pressure rating 1500 psi (103 bar) at 100°F (38°C), 1500# RF flanges side/side process connection. Pressure rating 1500 psi (103 bar) at 100°F (38°C).	UL UL UL UL UL UL UL
OPTIONS						H2	12	1" socket weld hubs in place of 1" NPT process connections. Breather and drain for E type enclosure. Recommended for high humidity or outdoor service.	

CHARTS A & B - ELECTRICAL CIRCUITS AND RATINGS

SWITCH TYPE	SWITCH ACTION		ELECT AC	RICAL RA	TINGS IN A	NGS IN AMPS DC			1265 SERIES ORDERING	
		120V	240V	440V	30V	125V	250V	ORDERING CODE	CODE	
	SP-ST Open on level FALL	10	5	3†		10	5	-4821 BN	-4821	UL
	SP-ST Open on level RISE	10	5	3†		10	5	-4820 BN	-4820	UL
CHART A	SP-DT One Switch	4	2	1†		4	2	-4810 BN	-4810	UL
Morouny	SP-DT Two switches E.I.*	10	5	3†		10	5	-4815 BN	-4815	UL
Mercury Contacts DF	DP-ST Two switches E.I.* Open on level FALL	10	5	3†		10	5	-4813 BN	-4813	UL
	DP-ST Two switches E.I.* Open on level RISE	10	5	3†		10	5	-4814 BN	-4814	UL
	DP-DT Two SP-DT switches	4	2	1†		4	2	-4806 BN	-4806	UL
	SP-DT One switch	12	5	3†		0.5**	0.25**	-7810 BN	-7810	UL
CHART B	DP-DT Two SP-DT switches	12	5	3†		0.5**	0.25**	-7806 BN	-7806	UL
Action	SP-DT One hermetically sealed switch	5	5		5**			-7810HM	-7810HM	
	DP-DT Two hermetically sealed SP-DT switches	5	5		5**			-7806HM	-7806HM	
	DP-DT Two SP-DT switches	10	3			10‡	3‡	-9806 BN	-9806	
	SP-DT One switch	10	3			10‡	3‡	-9810 BN	-9810	
Electrically Independent †Available on special order. Change 1st digit in Ordering Code from 4 to 5 or 7 to 8 i.e4820 becomes -5820, -7810 becomes -8810, etc.										