**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 explosion-proof 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**: Snap action or mercury. See charts A and B.  
**Wiring Connections**: G, WT 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**: G1 construction, carbon steel, 303SS, 304SS, 347SS.  
**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.  
**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**: G1 construction, carbon steel, 303SS, 304SS, 347SS.  
**Weight**: 291, 10 lb (4.5 kg); 293, 15 lb (6.8 kg); 294, 17 lb (7.7 kg).

**APPLICATIONS**

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

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**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**: G1 construction, carbon steel, 303SS, 304SS, 347SS.  
**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 CHART – SERIES 291

EXAMPLE 291 WT 7810B C1 80 291-WT-7810-C1-80. 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 120°F (38°C), 390 psig (21 bar) at 600°F (315°C). Side/bottom process connections. 1" NPT. Minimum specific gravity 0.60. UL


CIRCUITS (For Electrical Circuits see charts A & B below.) 48XEXN 78XXN 98XEXN Single stage. Mercury switch. See Chart A. Single stage. 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.

WELDED CHAMBER CONSTRUCTION T NPT PROCESS CONNECTIONS 291 C1 60 Carbon steel body. Minimum specific gravity 0.60. Side/bottom process connections. 1" NPT. Pressure rating 350 psig (24 bar) at 120°F (38°C), 390 psig (21 bar) at 600°F (315°C). UL

WELDED CHAMBER CONSTRUCTION WITH FLANGED PROCESS CONNECTIONS 293 C1 180 1" 150# RF flanges side/bottom process connection. Pressure rating 275 psi (19 bar) at 120°F (38°C), 150 psi (10 bar) at 600°F (315°C). Minimum specific gravity 0.60. UL

293 C1 360 3" 150# RF flanges side/bottom process connection. Pressure rating 350 psig (24 bar) at 120°F (38°C), 300 psig (21 bar) at 600°F (315°C). Minimum specific gravity 0.60. UL

294 C1 180 1" 150# RF flanges side/bottom process connection. Pressure rating 275 psi (19 bar) at 120°F (38°C), 150 psi (10 bar) at 600°F (315°C). Minimum specific gravity 0.60. UL

294 C1 380 3" 150# RF flanges side/bottom process connection. Pressure rating 350 psig (24 bar) at 120°F (38°C), 300 psig (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

EXAMPLE 1265 WT 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. UL


WELDED CHAMBER CONSTRUCTION T NPT PROCESS CONNECTIONS 1265 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

WELDED CHAMBER CONSTRUCTION WITH FLANGED PROCESS CONNECTIONS 1267 C1 140 1" 150# RF flanges side/bottom process connection. Pressure rating 275 psi (19 bar) at 120°F (38°C), 210 psi (14 bar) at 300°F (149°C). Minimum specific gravity 0.40. UL

1267 C1 340 3" 150# RF flanges side/bottom process connection. Pressure rating 720 psi (50 bar) at 120°F (38°C), 680 psi (47 bar) at 300°F (149°C). Minimum specific gravity 0.40. UL

1267 C1 640 1" 150# RF flanges side/bottom process connection. Pressure rating 1440 psi (99 bar) at 120°F (38°C), 1365 psi (94 bar) at 300°F (149°C). Minimum specific gravity 0.40. UL

1267 C1 1540 3" 150# RF flanges side/bottom process connection. Pressure rating 1500 psi (103 bar) at 120°F (38°C), 1500 psi (103 bar) at 300°F (149°C). Minimum specific gravity 0.40. UL

1266 C1 140 1" 150# RF flanges side/bottom process connection. Pressure rating 275 psi (19 bar) at 120°F (38°C), 210 psi (14 bar) at 300°F (149°C). Minimum specific gravity 0.40. UL

1266 C1 340 3" 150# RF flanges side/bottom process connection. Pressure rating 720 psi (50 bar) at 120°F (38°C), 680 psi (47 bar) at 300°F (149°C). Minimum specific gravity 0.40. UL

1266 C1 640 1" 150# RF flanges side/bottom process connection. Pressure rating 1440 psi (99 bar) at 120°F (38°C), 1365 psi (94 bar) at 300°F (149°C). Minimum specific gravity 0.40. UL

1266 C1 1540 3" 150# RF flanges side/bottom process connection. Pressure rating 1500 psi (103 bar) at 120°F (38°C), 1500 psi (103 bar) at 300°F (149°C). Minimum specific gravity 0.40. UL

OPTIONS H2 12 1" socket weld hubs in place of 1" NPT process connections. Breath and drain for E type enclosure. Recommended for high humidity or outdoor service.

CHARTS A & B - ELECTRICAL CIRCUITS AND RATINGS

<table>
<thead>
<tr>
<th>SWITCH TYPE</th>
<th>SWITCH ACTION</th>
<th>ELECTRICAL RATINGS IN AMPS</th>
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<th>1265 SERIES</th>
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*Electrically Independent  †Available on special order. Change 1st digit in Ordering Code from 4 to 5 or 7 to 8 **t10 Amp inductive (Polarized) at 125 VDC