Series


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 $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right)$, and $300 \mathrm{psi}(21$ bar) at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$. 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 (explosionproof - vapor proof) groups B, C, D, E, F, G, NEMA-7-9.

## SPECIFICATIONS

Minimum Specific Gravity: 0.60
Temperature Limit: Ambient Temperature: $212^{\circ} \mathrm{F}\left(100^{\circ} \mathrm{C}\right)$; Process
Temperature: up to $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$.
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 (430SS optional).
Weight: $211,34 \mathrm{lb}(15 \mathrm{~kg}) ; 213,44 \mathrm{lb}(20 \mathrm{~kg}) ; 214,51 \mathrm{lb}(23 \mathrm{~kg})$.

## 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 $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right), 300 \mathrm{psi}(21 \mathrm{bar})$ and $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$ 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) (explo-sion- proof - vapor proof).

MODEL CHART - SERIES 211

| EXAMPLE | 211 | WT | 7810 | 10 | HF | C1 | 60 |  |  | 211-WT-7810-Cl-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 $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right), 300$ psig ( 21 bar ) at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$. Side/bottom process connections, 1 " NPT. Minimum specific gravity 0.60 . |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ENCLOSURE |  | $\begin{aligned} & \hline \text { G } \\ & \text { WT } \\ & \mathrm{E} \\ & \mathrm{EV} \end{aligned}$ |  |  |  |  |  |  |  | General purpose, NEMA-1. <br> Weather proof, NEMA-3R, 4, 4X. <br> Explosion proof, NEMA-7, 9. Class I Groups B, C, D. Class II Groups E, F, G. (CSA <br> approved Groups C, D, E, F, G only). <br> Explosion proof, vapor proof, NEMA-7, 9. Class I Groups B, C, D. Class II Groups E, F, <br> G. (CSA approved groups C, D, E, F, G only). | $\begin{aligned} & \text { UL } \\ & \text { UL } \\ & \text { UL } \\ & \text { UL } \end{aligned}$ | $\begin{aligned} & \hline \text { CSA } \\ & \text { CSA } \\ & \text { CSA } \end{aligned}$ |
| CIRCUITS <br> (For Electrical Circuits see charts A \& B below.) |  |  | 48XX 48XX 78XX 78XX 78XXHM $98 X X$ 98XX 10XX 10XX | $\begin{gathered} x x \\ x x \\ x x \\ x x \\ x \\ x \end{gathered}$ |  |  |  |  |  | Single stage. Mercury switch. See Chart A. <br> Two stage. Mercury switch. See Chart A. <br> Single stage. Snap switch. See Chart B. <br> Two stage. Snap switch. See Chart B. <br> Hermetically sealed snap switch. See Chart B. <br> Single stage. High capacity DC snap switch. Use heat fins (HF) if process temperature <br> exceeds $350^{\circ} \mathrm{F}\left(177^{\circ} \mathrm{C}\right)$. Do not exceed $450^{\circ} \mathrm{F}\left(232^{\circ} \mathrm{C}\right)$. <br> See Chart B. <br> Two stage. High capacity DC snap switch. Use heat fins (HF) if process temperature exceeds $350^{\circ} \mathrm{F}\left(177^{\circ} \mathrm{C}\right)$. No not exceed $450^{\circ} \mathrm{F}\left(232^{\circ} \mathrm{C}\right)$. <br> See Chart B. <br> Single stage. High temperature snap switch. Continuous rating $800^{\circ} \mathrm{F}\left(425^{\circ} \mathrm{C}\right)$. See <br> Chart B. 211-C1-60 type rated at 175 psi (12 bar). <br> Two stage. High temperature snap switch. Continuous rating $800^{\circ} \mathrm{F}\left(425^{\circ} \mathrm{C}\right)$. See Chart <br> B. 211-C1-60 type rated at 175 psi (12 bar). |  |  |
| FLANGED CHAMBER CONSTRUCTION 1" NPT HUBS | 211 |  |  |  |  | $\begin{array}{l\|} \hline \text { C1 } \\ \text { C1 } \end{array}$ | 60 |  |  | Carbon steel body. <br> Minimum specific gravity 0.60 . Side/bottom process connections. $1^{\prime \prime}$ NPT hubs. Pressure rating $450 \mathrm{psig}(31 \mathrm{bar})$ at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right), 300 \mathrm{psi}$ (21 bar) at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$. | $\begin{aligned} & \hline \mathrm{UL} \\ & \mathrm{UL} \end{aligned}$ | $\begin{aligned} & \text { CSA } \\ & \text { CSA } \end{aligned}$ |
| FLANGED CHAMBER CONSTRUCTION WITH FLANGED PROCESS CONNECTIONS | $\begin{aligned} & 213 \\ & 213 \\ & 213 \\ & 214 \\ & 214 \\ & 214 \end{aligned}$ |  |  |  |  | $\begin{aligned} & \mathrm{C} 1 \\ & \mathrm{C} 1 \\ & \mathrm{C} 1 \\ & \mathrm{C} 1 \\ & \mathrm{C} 1 \\ & \mathrm{C} 1 \end{aligned}$ | 160 <br> 360 <br> 660 <br> 160 <br> 360 <br> 660 |  |  | 1" 150\# flanges side/bottom process connection. Pressure rating 275 psi (19 bar) at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right), 150 \mathrm{psi}(10 \mathrm{bar})$ at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$. Minimum specific gravity 0.60 . <br> 1 " 300 \# flanges side/bottom process connection. Pressure rating 450 psi <br> (31 bar) at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right), 300 \mathrm{psi}(21 \mathrm{bar})$ at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$. Minimum specific gravity 0.60 . <br> 1" 600\# flanges side/bottom process connection. Pressure rating 450 psi (31 bar) at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right), 300 \mathrm{psi}(21 \mathrm{bar})$ at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$. Minimum specific gravity 0.60 . <br> 1" 150\# flanges side/side process connection. Pressure rating 275 psi (19 bar) at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right), 150 \mathrm{psi}(10 \mathrm{bar})$ at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$. Minimum specific gravity 0.60 . <br> 1" 300 \# flanges side/side process connection. Pressure rating 450 psi (31 bar) at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right), 300 \mathrm{psi}(21 \mathrm{bar})$ at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$. Minimum specific gravity 0.60 . <br> 1" $600 \#$ flanges side/side process connection. Pressure rating 450 psi (31 bar) at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right), 300 \mathrm{psi}(21 \mathrm{bar})$ at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$. Minimum specific gravity 0.60 . | UL UL UL UL UL UL | $\begin{aligned} & \hline \text { CSA } \\ & \text { CSA } \\ & \text { CSA } \\ & \text { CSA } \\ & \text { CSA } \\ & \text { CSA } \end{aligned}$ |
| OPTIONS |  |  |  |  | HF |  |  | H2 | 12 | High temperature fins should be considered if ambient temperature is extremely high or if process temperature exceeds $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$ for extended periods. <br> 1" socket weld hub instead of 1 " NPT. <br> Breather and drain for E type enclosure. Recommended for high humidity or outdoor service. |  |  |

CHARTS A \& B - ELECTRICAL CIRCUITS AND RATINGS


