## Series 211 Flangyed Chamblel <br> External Mount, Pressirife 10450 naig (31 lar), Herneticilly 

Series 213 has one vertical and one horizontal flanged connection ( $1^{\prime \prime}$ RF forged steel - ANSI specifications). Flange centerline 151/4" (387 $\mathrm{mm})$. Other centerlines available.

Series 214 has two vertical flanges ( $1^{\prime \prime}$ RF forged steel - ANSI specifications). Flange centerline 15 $78^{\prime \prime}$ (403 mm ). Other centerlines available.


Repeatability $\pm 1 / 4^{\prime \prime}(6.4 \mathrm{~mm})$


Switch Level Change Single Stage Operation

| Two Stage Operation |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SP GR | A* | B | A** | B | C | D | E | $\begin{gathered} \text { ORDERING } \\ \text { CODE } \end{gathered}$ |
| MIN SP GR 0.6 <br> 450 psi (31 bar) @ $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right)$ 300 psi (21 bar) @ $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$ | 1.0 | $\left\lvert\, \begin{gathered} 63 / 4^{\prime \prime} \\ (171 \mathrm{~mm}) \end{gathered}\right.$ | $\begin{gathered} 3 / 4^{\prime \prime} \\ (19 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 53 / 4^{\prime \prime} \\ (146 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 3 / 4^{\prime \prime} \\ (19 \mathrm{~mm}) \end{gathered}$ | $\left\|\begin{array}{c} 81 / 4^{\prime \prime} \\ (210 \mathrm{~mm}) \end{array}\right\|$ | $\begin{gathered} 11 / 4^{\prime \prime} \\ (32 \mathrm{~mm}) \end{gathered}$ | $\left\lvert\, \begin{gathered} 21 / 2^{\prime \prime} \\ (64 \mathrm{~mm}) \end{gathered}\right.$ | C1-60 |
|  | 0.6 | $\begin{gathered} 8^{\prime \prime \prime} \\ (203 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 11 / 4^{\prime \prime} \\ (32 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 7^{\prime \prime} \\ (178 \mathrm{~mm}) \end{gathered}$ | $\begin{gathered} 11 / 4^{\prime \prime} \\ (32 \mathrm{~mm}) \end{gathered}$ | $\left\|\begin{array}{c} 93 / 4^{\prime \prime} \\ (248 \mathrm{~mm}) \end{array}\right\|$ | $\begin{gathered} 2^{\prime \prime} \\ (51 \mathrm{~mm}) \end{gathered}$ | $\left\|\begin{array}{c} 23 / 4^{\prime \prime} \\ (70 \mathrm{~mm}) \end{array}\right\|$ |  |

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 $1^{\prime \prime}$ NPT process connections as standard, or with socket weld hubs; or, $1^{\prime \prime}$ 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 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; (explosionproof) and (explosion-proof - vapor proof) groups B, C, D, E, F, G, NEMA-7-9.

## 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, $18^{\prime \prime}(460 \mathrm{~mm}$ ) leads.
Process Connections: $1^{n}$ 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 ( 316 SS and 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 $1^{\text {tI }}$ NPT (socket weld hub) (flanged). Unit shall be suitable for operation at $450 \mathrm{psi}(31 \mathrm{bar})$ 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) (explosion- proof vapor proof).

MODEL CHART - SERIES 211


CHARTS A \& B - ELECTRICAL CIRCUITS AND RATINGS

| $\begin{aligned} & \text { SWITCH } \end{aligned}$ | SWITCH ACTION | ELECTRICAL RATINGS IN AMPS |  |  |  |  |  | ORDERING CODE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | AC |  |  | DC |  |  | $\begin{aligned} & \text { SINGLE } \\ & \text { STAGE } \end{aligned}$ | TWO STAGE |  |  |  |
|  |  | 120V | 240V | 440V | 30VDC | 125V | 250 V |  | LOWER | UPPER |  |  |
| CHART A <br> Mercury <br> Contacts | SP-ST Open on level FALL | 10 | 5 | $3 \dagger$ |  | 10 | 5 | -4821 | -4821 | -21 | UL | CSA |
|  | SP-ST Open on level RISE | 10 | 5 | $3 \dagger$ |  | 10 | 5 | -4820 | -4820 | -20 | UL | CSA |
|  | SP-DT One Switch | 4 | 2 | $1 \dagger$ |  | 4 | 2 | -4810 | -4810 | -10 | UL | CSA |
|  | SP-DT Two switches E.I.* | 10 | 5 | $3 \dagger$ |  | 10 | 5 | -4815 | -4815 | -15 | UL | CSA |
|  | DP-ST Two switches E.I.* Open on level FALL | 10 | 5 | $3 \dagger$ |  | 10 | 5 | -4813 | -4813 | -13 | UL | CSA |
|  | DP-ST Two switches E.I.* Open on level RISE | 10 | 5 | $3 \dagger$ |  | 10 | 5 | -4814 | -4814 | -14 | UL | CSA |
|  | DP-DT Two SP-DT switches | 4 | 2 | $1 \dagger$ |  | 4 | 2 | -4806 | -4806 | -06 | UL | CSA |
| CHART B <br> Snap Action Contacts | SP-DT One switch | 12 | 5 | $3 \dagger$ |  | 0.5** | 0.25** | -7810 | -7810 | -10 | UL | CSA |
|  | DP-DT Two SP-DT switches | 12 | 5 | $3 \dagger$ |  | 0.5** | 0.25** | -7806 | -7806 | -06 | UL | CSA |
|  | 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٪ | $3 \ddagger$ | -9806 | -9806 | -06 |  |  |
|  | SP-DT One switch | 10 | 3 |  |  | $10 \ddagger$ | $3 \ddagger$ | -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 <br> $\ddagger 10$ Amp inductive (Polarized) at 125 VDC |  | 0 beco tive | $\begin{aligned} & \text { ecial or } \\ & \text { nes }-58 ? \end{aligned}$ | $\begin{aligned} & \text { er. Chan } \\ & 0,-7810 \end{aligned}$ | ge 1st dig becomes | $\begin{aligned} & \mathrm{t} \text { in Ord } \\ & -8810,6 \end{aligned}$ | ring Code | from 4 to | $5 \text { or } 7 \text { to }$ |  |  |  |

