soust Flangel Chamber
External Mount, Pressure to 1440 psig ( 99 har), Hermetically Sealed
Switches and Temperature to $475^{\circ} \mathrm{F}\left(246^{\circ} \mathrm{C}\right)$


A removeable stainless steel float enclosed in a flanged carbon steel chamber is featured in the durable, field proven 1241 series. External side mount series includes $1^{\prime \prime}$ NPT process connections as standard or $1^{\prime \prime}$ flanges as options. Pressure and temperature limits are $1440 \mathrm{psi}(99 \mathrm{bar})$ at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right)$ and $1275 \mathrm{psi}(87.9 \mathrm{bar})$ at $475^{\circ} \mathrm{F}\left(246^{\circ} \mathrm{C}\right)$. 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 (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 action or mercury switch. See charts A and B.
Electrical Ratings: 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 (flanges optional); See model chart.
Enclosure Rating: See model chart.
Enclosure:
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 (316SS and 430SS optional).
Weight: 1241, $34 \mathrm{lb}(15 \mathrm{~kg}) ; 1243,44 \mathrm{lb}(20 \mathrm{~kg}) ; 1244,51 \mathrm{lb}(23 \mathrm{~kg})$.

## Suggested Specifications

Liquid level control shall be 1241 (1243) (1244) Series with flanged carbon steel chamber. Process connections shall be 1"NPT (socket weld hub) (flanged). Unit shall be suitable for operation at 1440 psi (99 bar) at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right)$; $1275 \mathrm{psi}(87.9 \mathrm{bar})$ at $475^{\circ} \mathrm{F}\left(246^{\circ} \mathrm{C}\right)$ 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) (explosionproof) (vapor-proof).

Model Chart－Series 1241

| Example | 1241 | WT | 7810 | 10 | HF | C1 | 60 |  | 1241－WT－7810－C1－60．Liquid level control．Flanged carbon steel chamber．Weather－proof enclosure．SPDT snap switch，fixed deadband，automatic reset．Operating pressure 1440 psig（ 99 bar）at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right) 1275 \mathrm{psi}\left(87.9\right.$ bar）at $475^{\circ} \mathrm{F}\left(246^{\circ} \mathrm{C}\right)$ ．Side／bottom process connections， 1 ＂NPT．Minimum specific gravity 0.60 ． |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Enclosure |  | $\begin{array}{\|l\|} \hline G \\ W T \\ E \\ E V \end{array}$ |  |  |  |  |  |  | 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． <br> Explosion－proof，vapor－proof NEMA－7，9．Class I Groups B，C，D．Class II Groups E，F，G． |  |  |
| Circuits <br> （For electrical circuits see charts A \＆B below） |  |  | 48XX $48 X X$ $78 X X$ $78 X X$ $78 X X H M$ $98 X X$ $98 X X$ $10 X X$ $10 X X$ | $\begin{array}{\|l} x x \\ x x \\ x x \\ x x \end{array}$ |  |  |  |  | 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 exceeds $350^{\circ} \mathrm{F}\left(177^{\circ} \mathrm{C}\right)$ ．Do not exceed $450^{\circ} \mathrm{F}\left(232^{\circ} \mathrm{C}\right)$ ．See chart B． <br> Two stage．High capacity DC snap switch．Use heat fins（HF）if process temperature exceeds $350^{\circ} \mathrm{F}\left(177^{\circ} \mathrm{C}\right)$ ．Not to exceed $450^{\circ} \mathrm{F}\left(232^{\circ} \mathrm{C}\right)$ ．See chart B． <br> Single stage．High temperature snap switch．Continuous rating $800^{\circ} \mathrm{F}\left(425^{\circ} \mathrm{C}\right)$ ．See 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 B． 211－C1－60 type rated at 175 psi （12 bar）． |  |  |
| Flanged Chamber Construction 1＂ NPT／HUBS | 1241 |  |  |  |  | $\begin{aligned} & \mathrm{C} 1 \\ & \mathrm{C} 1 \end{aligned}$ | 60 |  | Carbon steel body． <br> Minimum specific gravity 0.60 ．Side／bottom process connections． $1^{\prime \prime}$ NPT hubs． <br> Pressure rating 1440 psig（ 99 bar ）at $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right), 1275 \mathrm{psi}(87.9 \mathrm{bar})$ at $475^{\circ} \mathrm{F}\left(246^{\circ} \mathrm{C}\right)$ ． |  |  |
| Flanged Chamber Construction with Flanged Process Connections | 1243 |  |  |  |  | $\begin{aligned} & \mathrm{C} 1 \\ & \mathrm{C} 1 \end{aligned}$ | $\begin{aligned} & 660 \\ & 660 \end{aligned}$ |  | $1^{\prime \prime} 600 \#$ flanges side／bottom process connection．Pressure rating $1440 \mathrm{psi}\left(99 \mathrm{bar}\right.$ ）at $100^{\circ} \mathrm{F}$ $\left(38^{\circ} \mathrm{C}\right), 1275 \mathrm{psi}(87.9 \mathrm{bar})$ at $475^{\circ} \mathrm{F}\left(246^{\circ} \mathrm{C}\right)$ ．Minimum specific gravity 0.60 ． <br> $1^{\prime \prime} 600 \#$ flanges side／side process connection．Pressure rating $1440 \mathrm{psi}(99 \mathrm{bar})$ at $100^{\circ} \mathrm{F}$ $\left(38^{\circ} \mathrm{C}\right), 1275 \mathrm{psi}(87.9 \mathrm{bar})$ at $475^{\circ} \mathrm{F}\left(246^{\circ} \mathrm{C}\right)$ ．Minimum specific gravity 0.60 ． |  |  |
| Options |  |  |  |  | HF | C216 |  | 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> 316 SS chamber and trim． 430 SS armature． <br> Breather and drain for E type enclosure．Recommended for high humidity or outdoor service． |  |  |

Charts A \＆B－Electrical Circuits and Ratings


