

## PRESSURE SWITCHES

| C6097 / C437<br>Pressure<br>Range | Type | Part Number  | Reset<br>Type | Mounting | Temperature<br>Range                                                                                | Notes          |        |
|-----------------------------------|------|--------------|---------------|----------|-----------------------------------------------------------------------------------------------------|----------------|--------|
| 0.4-5 in w.c.                     | HGPS | C6097A1004/U | Auto          | NPT      | C6097A1xxx:<br>-40F to +140F<br>(-40C to +60C)<br><br>C6097A2xxx:<br>+5F to +140F<br>(-15C to +60C) |                |        |
|                                   |      | C6097A1210/U |               | Flange   |                                                                                                     |                |        |
|                                   |      | C6097A1095/U | Manual        | NPT      |                                                                                                     |                |        |
|                                   |      | C6097A1228/U |               | Flange   |                                                                                                     |                |        |
| 1-10 mbar                         | HGPS | C6097A2110   | Auto          | NPT      |                                                                                                     | 250Vac version |        |
| 3-21 in w.c.                      | HGPS | C6097A1053/B |               |          |                                                                                                     | Auto           | Flange |
|                                   |      | C6097A1053/U |               |          |                                                                                                     |                |        |
|                                   |      | C6097A1061/U |               | Manual   |                                                                                                     |                | NPT    |
|                                   |      | C6097A1012/B | Flange        |          |                                                                                                     |                |        |
|                                   |      | C6097A1012/U |               |          |                                                                                                     |                |        |
|                                   |      | C6097A1020/U | Auto          | Flange   |                                                                                                     |                |        |
|                                   | LGPS | C6097B1069/U |               | Auto     |                                                                                                     | NPT            |        |
|                                   |      | C6097B1119/U |               |          |                                                                                                     |                |        |
|                                   |      | C6097B1028/B |               | Manual   |                                                                                                     | Flange         |        |
|                                   |      | C6097B1028/U |               |          |                                                                                                     |                |        |
| C6097B1036/U                      |      |              |               |          |                                                                                                     |                |        |
| 12-60 in w.c.                     | HGPS | C6097A1079/U | Auto          | Flange   |                                                                                                     |                |        |
|                                   |      | C6097A1087/U |               | NPT      |                                                                                                     |                |        |
|                                   |      | C6097A1038/U | Manual        | Flange   |                                                                                                     |                |        |
|                                   |      | C6097A1046/U |               |          |                                                                                                     |                |        |
|                                   | LGPS | C6097B1077/U | Auto          | NPT      |                                                                                                     |                |        |
|                                   |      | C6097B1085/U |               |          |                                                                                                     |                |        |
|                                   |      | C6097B1002/U | Manual        | Flange   |                                                                                                     |                |        |
|                                   |      | C6097B1010/U |               |          |                                                                                                     |                |        |
| 2.5-50 mbar                       | HGPS | C6097A2210   | Auto          | NPT      |                                                                                                     | 250Vac version |        |
| 30-150 mbar                       | HGPS | C6097A2310   |               | Flange   |                                                                                                     | 250Vac version |        |
| 1.5-7 psi                         | HGPS | C6097A1129/U |               | Auto     |                                                                                                     | NPT            |        |
|                                   |      | C6097A1137/U |               |          |                                                                                                     | Flange         |        |
|                                   |      | C6097A1103/U | Manual        | NPT      |                                                                                                     |                |        |
|                                   |      | C6097A1111/U |               | Flange   |                                                                                                     |                |        |
|                                   | LGPS | C6097B1093/U | Auto          | NPT      |                                                                                                     |                |        |
|                                   |      | C6097B1101/U |               | Flange   |                                                                                                     |                |        |
|                                   |      | C6097B1044/U | Manual        | NPT      |                                                                                                     |                |        |
|                                   |      | C6097B1051/U |               |          |                                                                                                     |                |        |
| 100-500 mbar                      | HGPS | C6097A2410   | Auto          | NPT      |                                                                                                     | 250Vac version |        |
| 1-10 psi                          | LGPS | C437D2029/U  | Manual        |          |                                                                                                     |                |        |
|                                   | HGPS | C437E2028/U  |               |          |                                                                                                     |                |        |

**For mounting and installation instructions, refer to the SV2 Series Safety Shut-off Valve Installation Instructions, document 32-00018**



## C6097 PRESSURE SWITCH PLACEMENT

C6097 flange mount pressure switches may be mounted directly on the SV2 Series valves and used for high gas pressure and VPS (valve proving system) switch operation. The NPT versions may be mounted to various valve pressure taps and can be used for VPS, high gas pressure and low gas pressure. The C6097 pressure switches may be used on all SV2 series valves models.

### NOTES:

- The flange mount C6097s cannot be used for low gas pressure on the SV2 series valves.
- C6097 NPT versions may be used for low gas pressure mounted external to the valve, using the pressure tap on the inlet flange or using the Inlet (I) port on pressure access locations A and C on V1.

The flange mount C6097 pressure switches can be mounted in any of the four (4) positions on the valve body. The seals of the C6097 will only cover the center pressure access port of each location.

V1 seat mounting locations A and C access the Middle (M) and Inlet (I) pressure ports. V2 seat mounting locations B and D access the Outlet (O) and M (Middle) pressure ports.

### NOTES:

- The Inlet (I) port on V1 seat mounting locations A and C is only allowed for NPT mount pressure switches.
- The Middle (M) port on V2 seat mounting locations B and D is only allowed for NPT mount pressure switches

The available pressure port locations for V1 and V2 seats for both sides of the valve are shown in Fig. 8. Pressure Switch types, placement and associated functionality information can be found in Table. 3.

## WARNING

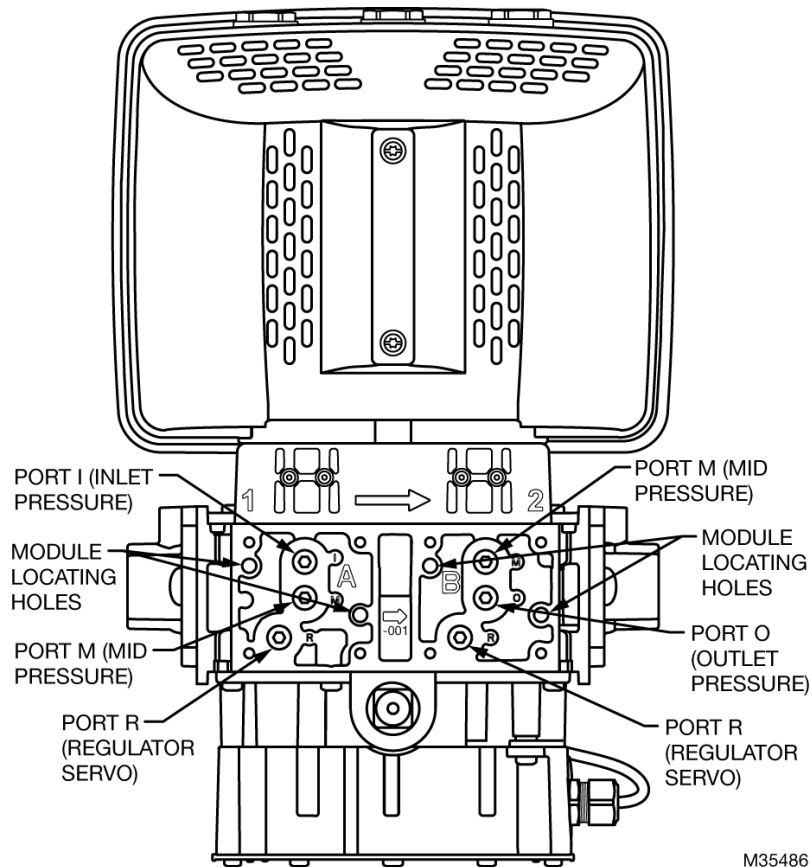
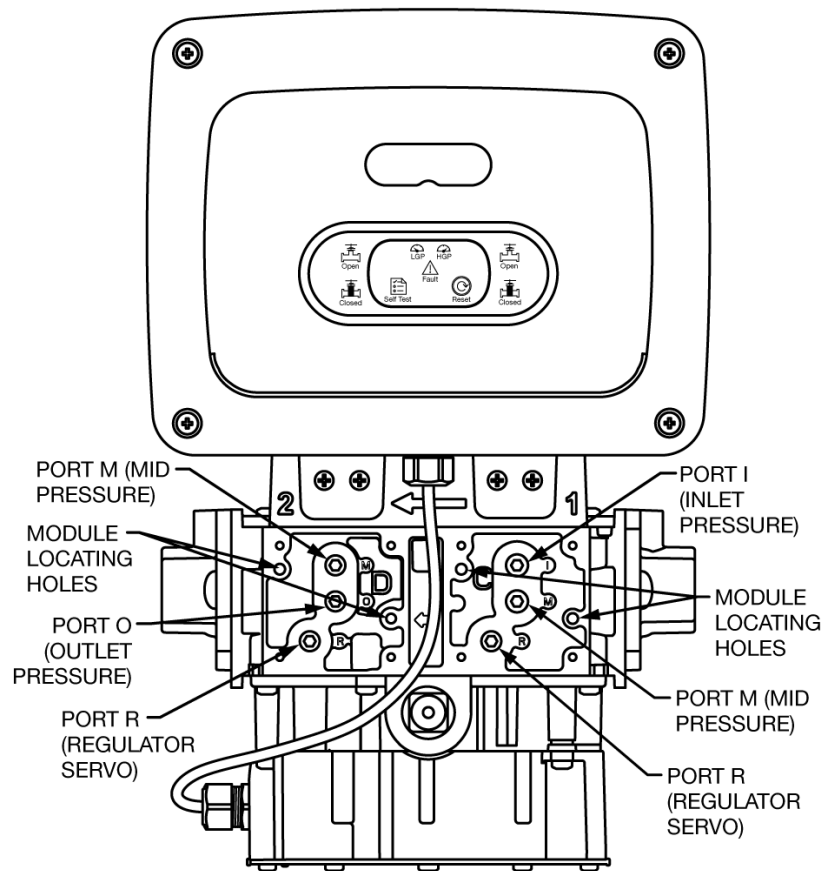
**Explosion Hazard.**

**Can cause explosion, serious injury or death.**

- The M4x25 screws shipped with the SV2 valve **MUST** be used to secure the flange mount C6097 to the valve body
- DO NOT use the 8-32 screws provided with the flange mount C6097 pressure switch
- Failure to follow this advice can result in gas leakage and explosion

| Valve Model | Description | C6097 Functions   | C6097 Mounting Style | Pressure Access Location      | Pressure Port to Open |
|-------------|-------------|-------------------|----------------------|-------------------------------|-----------------------|
| V2F         | On/off      | VPS               | Flange               | A/C on V1                     | Middle (M)            |
|             |             | High gas pressure |                      | B/D on V2                     | Outlet (O)            |
|             |             | VPS               | NPT                  | B/D on V2                     | Middle (M)            |
|             |             | High gas pressure |                      | Pressure tap on outlet flange |                       |
|             |             | Low gas pressure  |                      | A/C on V1                     | Inlet (I)             |
|             |             |                   |                      | Pressure tap on inlet flange  |                       |

### Pressure Switch Placement



M35486

## Valve Body and Pressure Ports