NOTES:
1. LEAK TEST VACUUM 10x10^-7 C.C./SEC. OR LESS.
2. CONTINUITY TEST: OPTICAL CONTINUITY USING RED LASER.
3. ALL TESTS ARE PERFORMED AT ROOM TEMPERATURE.
4. ALL PARTS MUST PASS ALL TESTS.
5. FIBER POSITIONING IS APPROXIMATE & VARIABLE.
6. NO COSMETIC SURFACE VOIDS ARE ACCEPTABLE ON O-RING SEALING SURFACES. COSMETIC SURFACE VOIDS SMALLER THAN Ø.035 [.89] ARE ACCEPTABLE ON ALL OTHER SURFACES.
7. DIMENSION IS OVER-ALL-LENGTH EXCLUDING OVERFILL ON ATMOSPHERE SIDE OF HOUSING.
8. REF-OPERATING TEMPERATURE -20°C TO 125°C.
9. REF-PARTS ARE DEFLASHED ON PARTING LINE +0.001 [.03] MAXIMUM.
10. PAVE-SEAL CAN BE A BI-DIRECTIONAL HERMETIC SEAL FOR VACUUM AND MOST PRESSURES. FOR PRESSURES ABOVE 150 PSI (10 BAR), CHECK WITH SALES ENGINEERING.
11. DIMENSIONS ARE INCHES [millimeters].

### PART LIST

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>A/R</td>
<td>FOMBLIN YVAC 3</td>
<td>LUBRICANT O-RING FOMBLIN GREASE</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>010 VITON</td>
<td>O-RING -010 VITON 75</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>PTFE 23</td>
<td>TUBING .026 ID X .038 OD PTFE</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>SMF-28E+FIBER</td>
<td>FIBER OPTIC SINGLE MODE 28e+FIBER</td>
</tr>
<tr>
<td>2</td>
<td>A/R</td>
<td>PAVE-Seal 150</td>
<td>EPOXY BLACK</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>0168</td>
<td>HOUSING SP6-E</td>
</tr>
</tbody>
</table>

### SP6 INSTALLATION PORT

**SCALE: 2:1**

- **MAXIMUM OVER/UNDERFILL**: [9.40 ± 0.10] (Ø.370 ± 0.004)
- **MINIMUM**: [13] .5
- **ATMOSPHERE**: [1000 MIN] 39.4 MIN
- **VACUUM**: [1000 MIN] 39.4 MIN

**Recommended Retaining Ring**
TRUARC N5000-37 OR EQUAL

REPLACE O-RINGS IF REMOVED FROM PORT.

**LEVEL**

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>REVISION</th>
</tr>
</thead>
</table>
| ALL DIMENSIONS AND TOLERANCES APPLY TO FINISHED PART IN INCHES. ALLOWABLE TOLERANCES UNLESS SPECIFIED OTHERWISE: NONE. Angles noted. Dimensions are in inches [millimeters]. **Max.** 150 PSI (10 BAR), check with sales engineering. PAVE-SEAL can be a bi-directional hermetic seal for vacuum and most pressures. For pressures above 150 PSI (10 BAR), check with sales engineering. Dimensions are in inches (mm). **NOTED**

**Part Number**
0168

**Part Name**
HOUSING SP6-E

**Description**

*See Note 7*

- Optic Positioning is approximate & variable.
- No cosmetic surface voids are acceptable on O-Ring sealing surfaces. Cosmetic surface voids smaller than Ø.035 [.89] are acceptable on all other surfaces.
- Dimension is over-all-length excluding overfill on atmosphere side of housing.
- Ref-operating temperature: -20°C to 125°C.
- Ref-parts are deflashed on parting line +0.001 [.03] maximum.
- Pave-Seal can be a bi-directional hermetic seal for vacuum and most pressures. For pressures above 150 PSI (10 BAR), check with sales engineering.
- Dimensions are in inches (mm).