Product Overview
The PFA DI Water Spray Gun is suitable for use in high purity semiconductor applications. The design utilizes a molded high purity PFA body with precision machined sealing areas. A one piece machined modified PTFE diaphragm/poppet provides excellent flexibility and long life. Wetted surfaces are PFA and modified PTFE thus eliminating the need for elastomer seals. The SG-1 is available with either 1/4” FNPT or 3/8” Parflare connections. Optional coiled hoses, with or without recirculation feature are also available.

Features
One piece precision machined diaphragm/poppet manufactured from the latest technology modified PTFE. Provides over five times the flexural life as compared to conventional PTFE. Wiper seat for positive through flow shut off and diaphragm to body seal.

Benefits
High cycle life.

Reversible/removable hanger.

Optional recirculation kit.

Benefits
High cycle life.

Lower replacement costs.

Less downtime.

Specifications
Materials of Construction:
Wetted Surfaces - PFA, Modified PTFE
External Surfaces - PFA, PVDF, Stainless Steel Spring

Pressure Ranges:
0 to 80 PSIG (5.5 bar)

Pressure range above is for operation at ambient temperature. For use at higher temperatures consult Pressure/Temperature chart on page 3.

Temperature Ranges:
0° - 150° F (-17° - 66° C) Ambient
0° - 200° F (-17° - 93° C) Fluid

SPRAY PATTERN
DISTANCE FROM HEAD (feet [meters])
0 [0] 1 [0.3] 2 [0.6] 3 [0.9] 4 [1.2]

SPRAY PATTERN DIAMETER (inches [mm])
@ 80 psig (5.5 bar)
0.62 [16] 7 [178] 9 [229] 14 [355] 18 [457] 2 [0.6] 1 [0.3] 0.62 [16]
SG-1 DI Water Spray Gun

Bracketed dimensions are in mm.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>End Connection</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SG-1-01</td>
<td>1/4&quot; FNPT</td>
<td>Spray Gun only</td>
</tr>
<tr>
<td>SG-1-02</td>
<td>3/8&quot; Parflare</td>
<td>Spray Gun only</td>
</tr>
<tr>
<td>SG-1-02-01</td>
<td>3/8&quot; Parflare</td>
<td>Spray Gun with complete 1002-0158 recirculation assembly</td>
</tr>
<tr>
<td>FBMTR-2G64</td>
<td>N/A</td>
<td>Recirculating tee connector only</td>
</tr>
<tr>
<td>1002-0158</td>
<td>&quot;</td>
<td>Complete recirculation kit with FBMTR-2G64 and 8&quot; FEP coil</td>
</tr>
<tr>
<td>1002-0161</td>
<td>&quot;</td>
<td>8&quot; FEP coil only</td>
</tr>
</tbody>
</table>

**Inlet Pressure vs. Flow**

- **Pressure (bar):** 0.7, 1.4, 2.1, 2.8, 3.5, 4.2, 4.9
- **Pressure (psi):** 13.2, 11.4, 9.5, 7.6, 5.7, 3.8, 1.9
- **Flow (gpm):** 1.0, 1.5, 2.0, 2.5, 3.0, 3.5
- **Flow (lpm):** 1.9, 3.8, 5.7, 7.6, 9.5, 11.4, 13.2

**Flow (gpm)** vs. **Pressure (psi)**

- **Flow (lpm)** vs. **Pressure (bar)**

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