Dielectric Fittings

Dielectric fittings isolate monitoring instruments from the effects of electrical current. Installed on impulse lines ahead of monitoring stations in natural gas pipelines, the fittings interrupt cathodic current flow while permitting full fluid flow. The fitting design is unique in that it separates the two primary functions of electrical insulation and fluid containment. Thermoplastic insulators provide high dielectric strength over a wide range of operating and climatic conditions. A fluorocarbon FKM quad seal contained in the fitting provides the primary fluid seal.

Features
- Metal components are machined from 316 stainless steel for use in rugged environments.
- Molded thermoplastic insulation with excellent electrical, chemical, and ultraviolet resistance and low water absorption maintains dielectric strength and integrity over a wide range of operating and climatic conditions.
- Gaugeable Swagelok® tube fitting or tapered pipe thread end connections (NPT/BSP) provide direct connection to tubing or piping system.

Materials
- Body: 316 stainless steel
- Insulators: Polyamide-imide
- Quad Seal: 70 durometer fluorocarbon FKM
- Backup Ring: Virgin PTFE

Technical Data
- Electrical Resistance of Insulators at 70°F (20°C): $10 \times 10^6 \ \Omega$ at 10 V (dc)
- Pressure Rating: 5000 psig (344 bar)
- Temperature Rating: −40 to 200°F (−40 to 93°C)

Ordering Information and Dimensions

<table>
<thead>
<tr>
<th>End Connections</th>
<th>Ordering Number</th>
<th>Dimensions, in.</th>
<th>Dimensions, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>Inlet/Outlet</td>
<td>Tube Size</td>
<td>Pipe Size</td>
<td>Ordering Number</td>
</tr>
<tr>
<td>Swagelok tube fittings</td>
<td>3/8 in.</td>
<td>—</td>
<td>SS-6-DE-6</td>
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<tr>
<td></td>
<td>1/2 in.</td>
<td>—</td>
<td>SS-8-DE-6</td>
</tr>
<tr>
<td></td>
<td>12 mm</td>
<td>—</td>
<td>SS-12-MDE-6</td>
</tr>
<tr>
<td></td>
<td>3/8 in.</td>
<td>1/4 in.</td>
<td>SS-6-DE-1-4</td>
</tr>
</tbody>
</table>

Dimensions shown with Swagelok nuts finger-tight. Dimensions are for reference only and are subject to change.

Caution: Do not mix or interchange parts with those of other manufacturers.
About this document

Thank you for downloading this electronic catalog, which is part of General Product catalog Swagelok published in print. This type of electronic catalog is updated as new information arises or revisions, which may be more current than the printed version.

Swagelok Company is a major developer and provider of fluid system solutions, including products, integration solutions and services for industry research, instrumentation, pharmaceutical, oil and gas, power, petrochemical, alternative fuels, and semiconductor. Our manufacturing facilities, research, service and distribution facilities support a global network of more than 200 authorized sales and service centers in 57 countries.

Visit www.swagelok.com to locate your Swagelok representative and obtain any information on features, technical information and product references, or to learn about the variety of services available only through authorized sales centers and service Swagelok.

Safe Product Selection
When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Warranty Information
Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit your Swagelok Web site or contact your authorized Swagelok representative.