Dielectric Fitting

Introduction
The Superlok® Dielectric Fittings are designed to insulate subsystems from electrical current, voltages and static charges. Installed on impulse lines lines ahead of monitoring stations in natural gas pipelines, the fittings interrupt cathodic current flow while permitting full fluid flow.

Features
- Metal components are machined from 316 stainless steel for use in rugged environments.
- Thermoplastic insulation with excellent electrical, chemical and ultraviolet resistance. Low water absorption maintains dielectric strength and integrity over a wide range of operating and climatic conditions.
- Gaugeable SUPERLOK® Tube Fitting or tapered pipe thread end connections provide direct connection to tubing or piping system.

Materials
- Body construction Materials : 316 Stainless Steel
- Insulator : PEEK
- O-ring Material : 70 durometer VITON
- Back-up Washer : Virgin PTFE

Technical Data
- Electrical resistance of insulators at 70°F (20°C) : 10 X 10^6 Ω at 10V (dc)
- Pressure Rating : 5000 psig (344 bar)
- Temperature Rating : -40 to 200°F (-40 to 93°C)

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Ordering Information
Example:
SDE - S6 - M4N

1. SUPERLOK Dielectric Fitting
2. Size of Fitting
   2-1. Tube O.D
   Fractional Tube
   | O.D (Inch) | 1/4 | 3/8 | 1/2 |
   | Designation | S4 | S6 | S8 |
   | Matric Tube
   | O.D (mm) | 6 | 8 | 10 | 12 |
   | Designation | S6M | S8M | S12M | S12M |
   2-2. Pipe Thread Size
   | Size (inch) | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
   | Applied Size | NPT 2N | 4N | 6N | 8N | 12N | 16N | ANSI B1.20.1 |
   | ISO Tapered | 2R | 4R | 6R | 8R | 12R | 16R | JIS B0203(PT), DIN2999, BSPT |

WARNING: A "NO WRENCHING" label is placed on the hex of the nut in the insulation sections. Do not disconnect at this point. Instructions are provided with every SUPERLOK® dielectric fitting.

Part No. Tube O.D. Thread Width Across Flat, inch dimensions, mm
| SDE-S4 1/4" | - | 1/2 | 9/16 | 4.8 | 15.6 | 65.5 | 96.7 |
| SDE-S6 3/8" | - | 5/8 | 13/16 | 11/16 | 7.1 | 17 | 66.4 | 100.4 |
| SDE-S8 1/2" | - | 13/16 | 7/8 | 22.9 | 60.3 | 106.1 |
| SDE-S12M 12mm | - | 22mm | | 23.1 | 60.3 | 106.4 |
| SDE-S6-M4N 3/8" 1/4" M.NPT | 5/8 | 7/8 | 11/16 | 17 | N/A | 95.18 |

* All dimensions in millimeters unless specified as "inch*. Dimension are for reference only, subject to change.