

# Dielectric Fitting



## Features

- Metal components are machined from 316 stainless steel for use in rugged environments.
- 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 SUPERLOK® Tube Fitting or tapered pipe thread end connections provide direct connection to tubing or piping system.

## Introduction

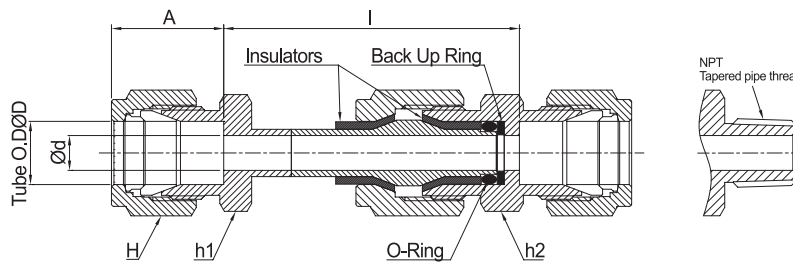
The Superlok® Dielectric Fittings are designed to insulate subsystems from electrical current, voltages and static charges. Installed on impulse lines ahead of monitoring stations in natural gas pipelines, the fittings interrupt cathodic current flow while permitting full fluid flow.

## 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<sup>6</sup> Ω at 10V (dc)
- Pressure Rating : 5000 psig (344 bar)
- Temperature Rating : -40 to 200°F (-40 to 93°C)



**WARNING :** A "NO WRENCHING" label is placed on the hax 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. ØD	Thread	Width Across Flat, inch			dimensions, mm			
			h1	h2	H	φd	A	I	L
SDE-S4	1/4"	-	1/2	13/16	9/16	7.1	15.6	65.5	96.7
SDE-S6	3/8"	-	5/8		11/16		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.

## Ordering Information

Example :

**SDE - S6 - M4N**  
 1                      2                      3

### 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	
Metric 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