

Products > Sapphire Orifice Jewels

# Sapphire Orifice Jewels

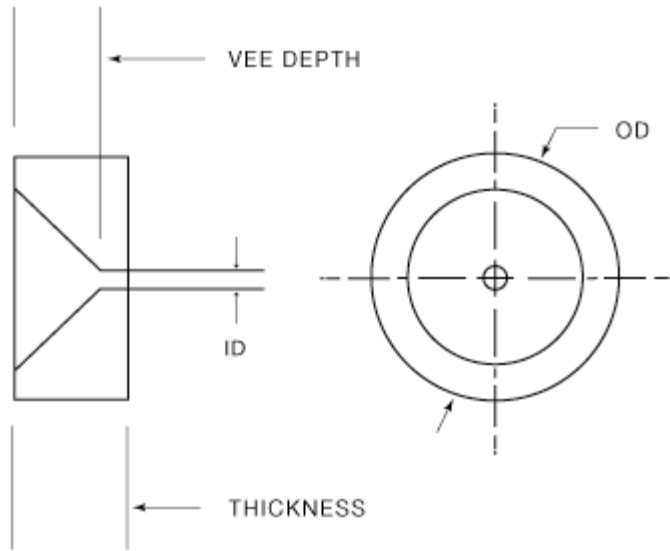
Sapphire is an excellent orifice jewel material because of its resistance to wear, heat and corrosion, as well as its low friction. The hole diameter for control purposes is usually specified to be held within 0.0002". Sapphire orifice jewels can be used for UHP water jet applications (up to 40,000-50,000 PSI), oil atomizing and the handling of air, hot gases and practically all liquids and acids.



**Typical Applications:** Ultra-High Pressure Sapphire Waterjet Orifices, Control Units (gas, liquid), Flow-meters, Ink Jet Printing

Model	Inside Diameter	Outside Diameter	Thickness	Angle	Vee Depth
0015T64	.0015/.0018"	.065"	.006"	N/A	straight hole
0016T65	.0021/.0028"	.060"	.012"	N/A	straight hole
0032B60	.0010/.0012"	.065"	.012"	N/A	straight hole
0051T47	.0018/.0022"	.0468/.0472"	.019/.021"	75/85°	.014/.019"
0076T47	.0028/.0032"	.0468/.0472"	.019/.021"	75/85°	.011/.016"
0089G62	.0031/.0040"	.0620/.0634"	.0442/.0444"	70/90°	.020/.025"
0102T47	.0038/.0042"	.0468/.0472"	.019/.021"	75/85°	.008/.013"
0139M55	.0054/.0056"	.078/.079"	.0276/.0315"	85/95°	.023/.026"
0140G87	.0053/.0060"	.0870/.0878"	.045/.050"	85/95°	.022/.030"
0152M45	.0058/.0062"	.0458/.0468"	.0300/.0315"	70/95°	.017/.021"
0203M45	.0078/.0082"	.0458/.0468"	.0300/.0315"	70/95°	.017/.021"
0254S48	.0098/.0102"	.0870/.0878"	.045/.050"	85/95°	.0312/.0323"

## Orifice Jewel Cross Section



### NOT SEEING EXACTLY WHAT YOU NEED?

We specialize in creating a wide range of custom optical components and custom mechanical components including a variety of shapes - from internal holes and tapers to outer flanges, angles and surface finishes. Contact us (800-922-0118) and we will consult with you to create a custom component that meets all of your specifications.