

GCD Isolation Diaphragm for Oil-filled Pressure Sensor

Feature

- ✓ Flat outer edges without warping
- ✓ Uniform axial elasticity of corrugations
- ✓ High repeatability with low hysteresis
- ✓ Stress-relieved
- ✓ Excellent mechanical properties



Introduction

Metal diaphragms are essential components in the manufacturing of oil-filled MEMS pressure sensors. Its function is to isolate the pressure-sensitive chip from direct contact with the measurement medium. The physical properties of the diaphragm directly influence the performance of the sensor.

Order Guide

GCD	Isolation Diaphragm			
	Code1	Diameter		
	120	12.0 mm	Thickness 25 and 50 optional	
	124	12.4 mm		
	180	18.0 mm		
	184	18.4 mm		
	188	18.8 mm		
	300	30.0 mm	Thickness only with 80	
	320	32.0 mm		
		Code2	Thickness	
		25	0.025 mm	
		50	0.05 mm	
		80	0.08 mm	
			Code3	Material
			M1	316L, 1.4404
			M2	316L, 1.4435
			M3	Tantalum
			M4	Titanium
GCD	188	25	M1	
Complete type sample: GCD-188-25-M1				