

## GCD Diaphragm

### 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.

### Diaphragm Order Guide

| GCD        | Diaphragm For Oil-filled Pressure Sensor |            |           |           |              |
|------------|--|------------|-----------|-----------|--------------|
|            | Code1                                    | Wave Shape |           |           |              |
|            | R  | Half Round |           |           |              |
|            | T  | Triangle   |           |           |              |
|            |  | Cod2       | Diameter  |           |              |
|            |  | 120        | 12mm      |           |              |
|            |  | 180        | 18mm      |           |              |
|            |  | 184        | 18.4mm    |           |              |
|            |  | 188        | 18.8mm    |           |              |
|            |  | 320        | 32mm      |           |              |
|            |  |            | Code3     | Thickness |              |
|            |  |            | 50        | 0.05mm    |              |
|            |  |            | 25        | 0.025mm   |              |
|            |  |            |           | Code4     | Material     |
|            |  |            |           | M1        | 316L, 1.4404 |
|            |  |            |           | M2        | 316L, 1.4435 |
|            |  |            |           | M3        | Tantalum     |
|            |  |            |           | M4        | Titanium     |
| <b>GCD</b> | <b>R</b>                                 | <b>184</b> | <b>25</b> | <b>M2</b> |              |

Complete type sample: GCD-R-184-25-M2