

## Combustion Pressure Sensor (High Pressure Resistant)

### For measurement of new engine development

#### Features

1. Designed to achieve both increased pressure resistance (400 bar) and high sensitivity (-15 pC/bar).
2. It can be used for bench measurement of high performance vehicles, supercharged engines, etc
3. High pressure durability and high natural frequency realize the measurement of strong knocking.

#### Specification

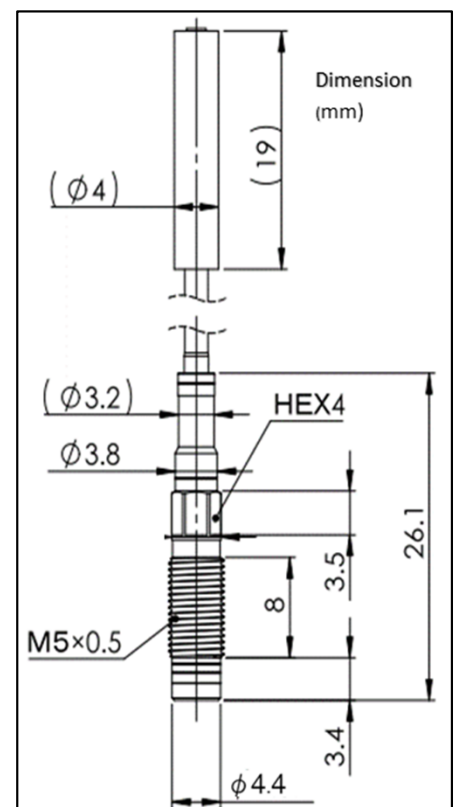
Type	MCZ03
Measuring range	0~40MPa (0~400bar)
Sensitivity	-15pC/bar
Linearity	$\leq \pm 0.5\%$ ※1
Natural frequency	$\geq 120\text{KHz}$
Insulation resistance	$\geq 10^{13}\Omega$ ※1
Operating range	-40~400°C ※2
Thermal shock error	$\leq \pm 0.4\text{bar}$ ※3
Mounting dimensions	M5×0.5、 HEX : 4 (mm)
Cooling	Non-cooling
Mounting torque	1.5Nm

※1.At normal temperature

※2.Temperature of pressure receiving surface

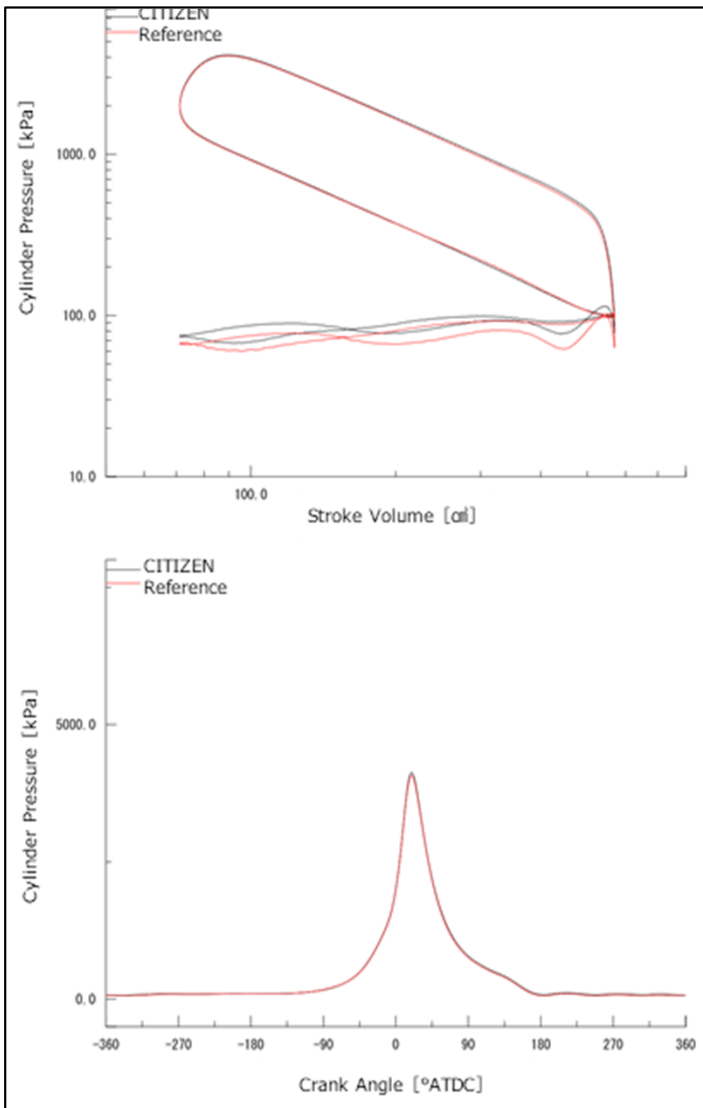
※3.Thermal shock error:1500rpm / IMEP:9bar

※ Recommend our mounting tools.

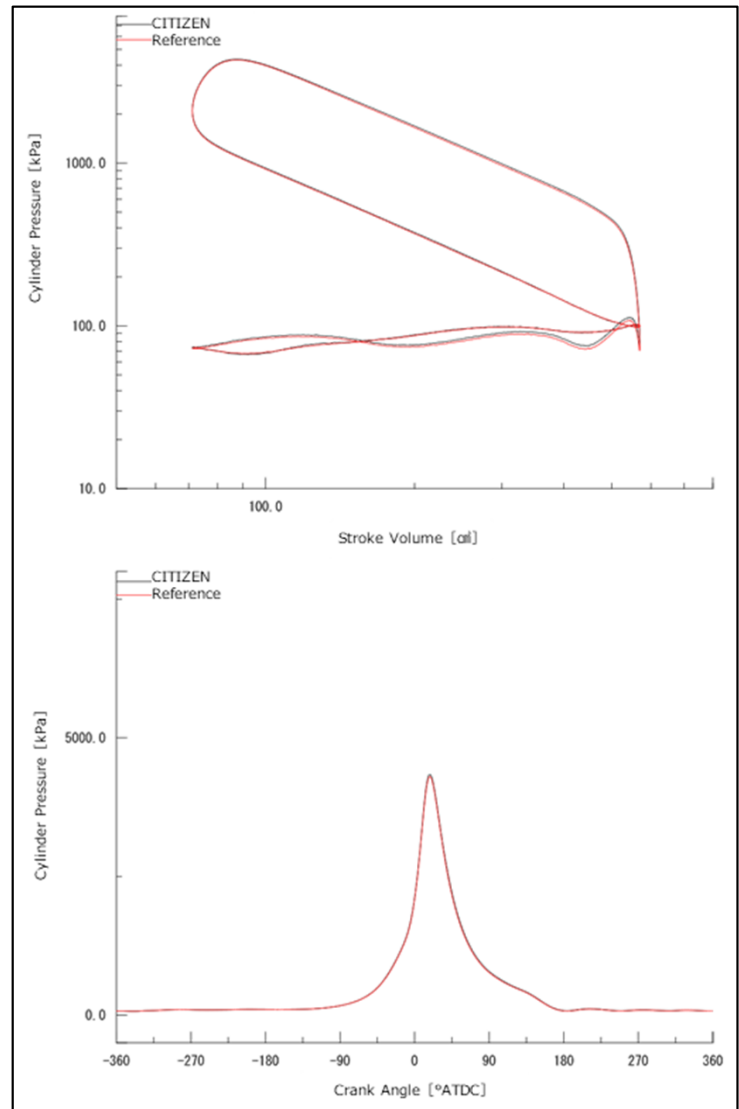


# Combustion pressure sensor data

@2000rpm 180Nm 300Waveform Average  
\*Reference sensor: Water-cooled sensor



@2000rpm 180Nm 300Waveform Average  
※Reference sensor: Non-cooled sensor



Product specifications are subject to change without notice.