

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

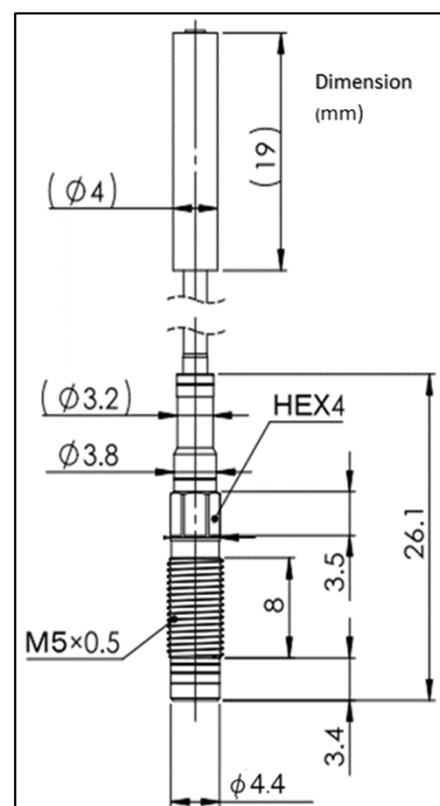
Type	MCZ03
Measuring range	0~40MPa (0~400bar)
Sensitivity	-15pC/bar
Linearity	$\leq \pm 0.5\%$ ※1
Natural frequency	$\geq 120\text{KHz}$
Insulation resistance	$\geq 10^{13}\Omega$ ※1
Operating range	-40~400°C ※2
Thermal shock error	$\leq \pm 0.4\text{bar}$ ※3
Mounting dimensions	M5×0.5、 HEX : 4 (mm)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

※1. At normal temperature

※2. Temperature of pressure receiving surface

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

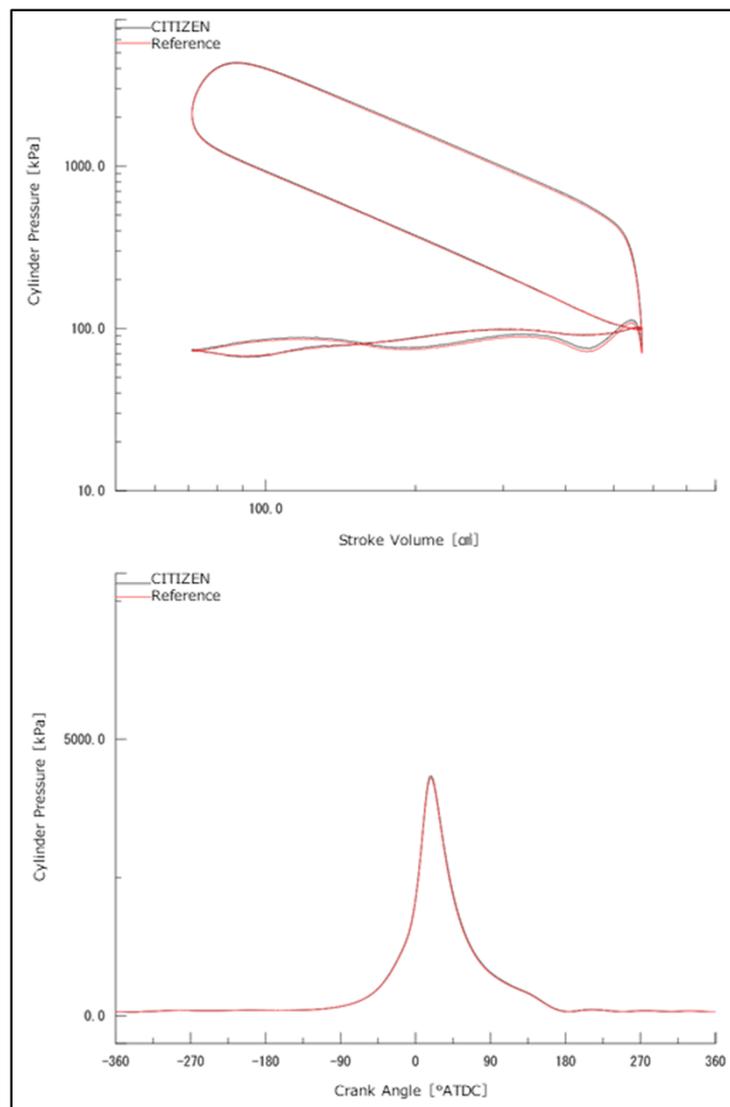
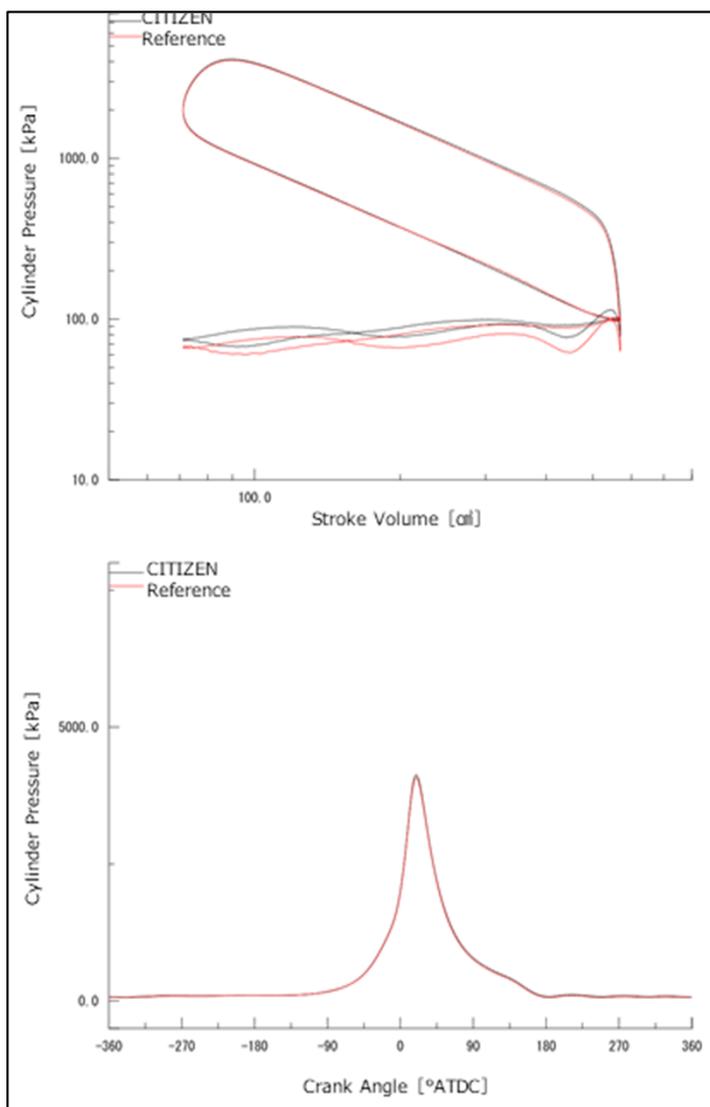
※ Recommend our mounting tools.



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.