

RFID-enabled Smart Gas Cylinders



Tianhai RFID-enabled Smart Gas Cylinders are jointly launched by Tianhai industry and Thingple Technologies. Continuing Tianhai's tradition of manufacturing excellence and commitment to highest quality standards, the smart cylinders are manufactured by first-class processing equipment and advanced processes. The cylinders have built-in UHF-RFID tag developed by Thingple, with world-class performance in fast data-rate communication, long distance reading, durability and reliability.

The RFID-enabled smart cylinders, matched with fixed and handheld readers, allow customers to accurately and effortlessly track cylinders through its lifetime, and maximum return on asset through advanced data analytics.

Cylinder parameters	Inside Diameter	90mm-406mm
	Water capacity	1.2L-180L
	Height	285mm-2090mm
	Weight	1.9kgs-165kgs
	Design Wall Thickness	2.4mm-11.9mm
	Filling pressure	1-35Mpa
	Filling medium	Normal industrial gas
	Standard	Q/JB THB;GB5099; ISO;DOT; TC;UN ISO; EN ISO; EN 1964-1.
	Material	30CRMO; 37MN; 34CRMO4
RFID Tag parameters	Protocol Standard	UHF EPC Class 1 Gen 2
	Frequency	865-956Mhz
	Region	Tags for CN、 EU、 USA standards are available
	Chip IC	Monza 4QT
	Memory	128 bit EPC + 96 bit TID + 512 bit user memory
	Anti-collision data processing	Supported
	UHF read-write distance	6.5m (2W reader, open space)
	Sealing	IP65
	Withstands exposure to	Mineral oil, petroleum, salt mist, vegetable oil, 5% caustic soda
	Storage temperature	-40 ~ 85°C
	Operating temperature	-40 ~ 85°C
	Built-in information	Can customize built-in gas cylinder certificate or other information

Handheld or fixed readers and gas cylinder management software are available through Thingple Technologies.



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