

Hydrogen

.....

RECIPROCATING GAS COMPRESSORS

MADE & DESIGNED IN ITALY 



Via Ponticelli, 5-7, 43029
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FORNOVOGAS
WE MOVE ENERGY
MADE IN ITALY 

 ITALIAN MANUFACTURER

Since 1969



1969

FOUNDATION

.....

Dr. Carlo Bauzone founded Fornovo Gas, creating a company that immediately stood out for its innovation and passion for gas compression.

2004

FIRST COMPRESSOR

.....

The first reciprocating compressor, fully developed with Fornovo Gas technology, is introduced, marking a crucial moment in our innovation journey.

2009

CERTIFICATIONS

.....

Fornovo Gas earns ISO 9001, ISO 14001, and ISO 45001 certifications, affirming its commitment to excellence and quality.



2019

EXPANSION

.....

Fornovo Gas compressors are now operational in 60 countries, spreading our technology worldwide.

2021

HYDROGEN

.....

The range of reciprocating compressors for hydrogen is launched, marking another significant milestone in our mission to support the energy transition.

2024

TODAY

.....

Fornovo Gas, a certified Benefit Society, continues to innovate in sustainable solutions. With a strong commitment to carbon neutrality by 2030, the company expands its international presence, driving the global energy transition.

About Us

For over **55 years**, Fornovo Gas has been synonymous with **innovation, sustainability**, and a strong sense of family passion.

Founded as a **family-run business**, our company has grown into a **global leader** in the **design and production of reciprocating gas compressors**.

Delivering **high-performance, customized solutions** for a wide range of applications: Biogas, Biomethane, CO₂, Industry, CNG, Hydrogen, and more...

With a **worldwide network** of partners and clients, we continue to innovate and expand while staying true to the values that have brought us this far:

Meticulous **attention to detail**, unwavering **dedication**, and a **commitment** to delivering solutions that meet today's needs while anticipating the challenges of tomorrow.

Benefit Society

Since 2022, Fornovo Gas has been a **Benefit Society**.

This decision strengthens our commitment to combining industrial innovation with ambitious **environmental, social, and governance (ESG) goals**.

As a Benefit Company, we align ethical responsibility with tangible results: delivering advanced technologies that **respect the environment, support sustainable development**, and **create value** for our clients, communities, and people.

This model allows us to provide cutting-edge, reliable solutions while embracing a more **responsible vision** for the future, a path toward progress that benefits everyone.

Our Numbers

3000+

COMPRESSORS
INSTALLED
WORLD WIDE

20 %

STEADY GROWTH
IN ORDERS

120

OVER 120
EMPLOYEES

60

OPERATING IN
MORE THAN 60
COUNTRIES

2

AMAZING
DOGS

Our Values



QUALITY AND RELIABILITY

Our compressors are designed and manufactured in Italy, ensuring top-notch **Made in Italy** quality, reliability, and performance.



TECHNOLOGICAL INNOVATION

Revolutionary **oil-free compressors**: the clean, powerful choice for tomorrow's industries.



TAILOR MADE

Every client is **unique**, and so is every solution we deliver.



CORPORATE SUSTAINABILITY

Operating with a focus on **sustainability**, delivering compressors designed for a greener future.



PARTNERSHIP AND COLLABORATION

We believe **teamwork** is the key to overcoming energy challenges.



FAMILY TRADITION

A **family-run business** that puts people first, fostering strong and lasting relationships with clients and partners.

The White Twins

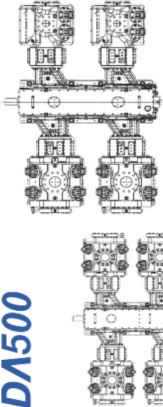
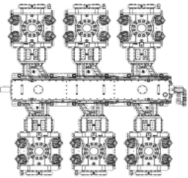
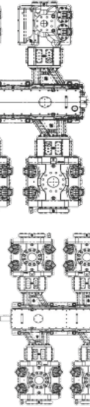
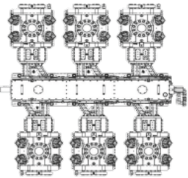
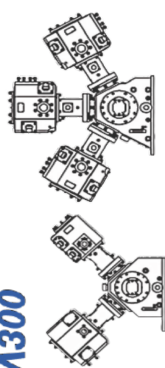
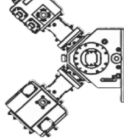
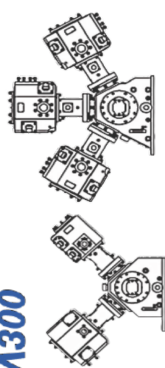
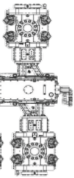
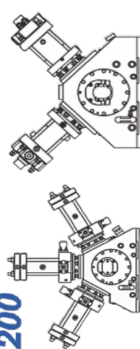
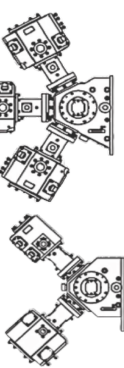
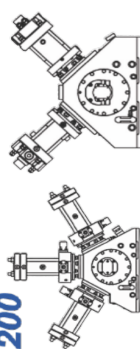
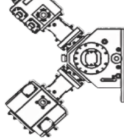
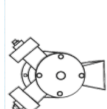
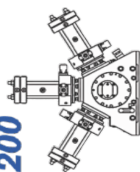
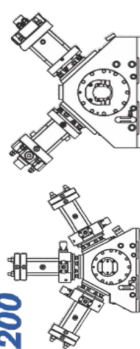
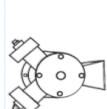
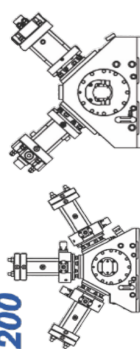
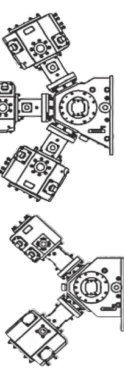
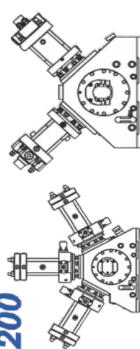
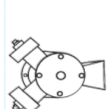
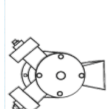
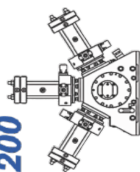
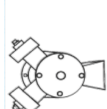
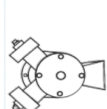
We're not just experts in gas compression...
WE'RE A TEAM !

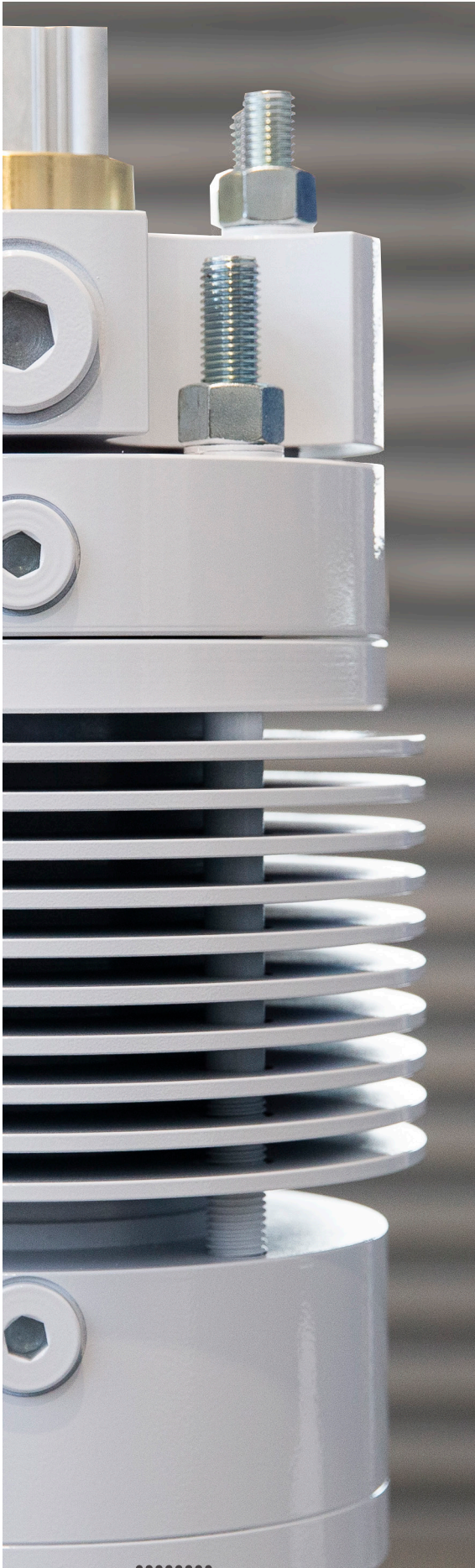
Sonny and **Mizu**, our beloved office dogs, are proud members of the **Fornovo Gas family**.

With their boundless energy and loyalty, they embody our core values of **dedication**, **reliability**, and **teamwork**.



Our Products

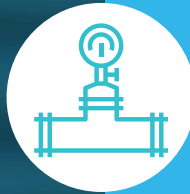
POWER kW	MODEL	CYLINDER				APPLICATION									
		Bore (mm)	Acting Strokes (mm)	MAWP (bar g)	Cooling <div><div>air</div><div>liquid</div></div>	<div><div>NO LUBE</div><div>OIL FREE</div><div>LUBE</div></div>	Distance Piece Type	Features Options	CH4	Bio CH4	N2	CO2	Sour Gas	Toxic Gas	H2 Syngas
1800	DA500		500	17,5	<div><div></div><div></div></div>	<div><div>NO LUBE</div><div>OIL FREE</div><div>LUBE</div></div>	B-C	Bone dry gas seals							
			400	34,7	<div><div></div><div></div></div>		B-C	Bone dry gas seals							
			300 DOUBLE ACTING	62	<div><div></div><div></div></div>		B-C	Ni-plated surface treatment							
			220 ACTING	70,5	<div><div></div><div></div></div>		B-C	Ni-plated surface treatment							
315	DA300		185	100	<div><div></div><div></div></div>	<div><div>NO LUBE</div><div>OIL FREE</div><div>LUBE</div></div>	B-C	Cylinder lubrication system							
			150	140	<div><div></div><div></div></div>		B-C	Cylinder lubrication system							
			115	275	<div><div></div><div></div></div>		B-C	Packings Nitrogen buffer							
			370-190 240-140 TANDEM	48 143 275 500	<div><div></div><div></div></div>		B-C	Packings Nitrogen buffer							
55	SA200		320	10	<div><div></div><div></div></div>	<div><div>NO LUBE</div><div>OIL FREE</div><div>LUBE</div></div>	B	Bone dry gas seals							
			240	40	<div><div></div><div></div></div>		B	Bone dry gas seals							
			150 DOUBLE ACTING	90	<div><div></div><div></div></div>		B	Ni-plated surface treatment							
			90	133	<div><div></div><div></div></div>		B	Ni-plated surface treatment							
7	SA150		200-130 100-50 TANDEM	220	<div><div></div><div></div></div>	<div><div>NO LUBE</div><div>OIL FREE</div><div>LUBE</div></div>	B	Ni-plated surface treatment							
			90	275	<div><div></div><div></div></div>		B	Ni-plated surface treatment							
			100-50 TANDEM	375	<div><div></div><div></div></div>		B	Ni-plated surface treatment							
			150 SINGLE ACTING	50	<div><div></div><div></div></div>		B-C	Bone dry gas seals							
55	SA200		80 ACTING	100	<div><div></div><div></div></div>	<div><div>NO LUBE</div><div>OIL FREE</div><div>LUBE</div></div>	B-C	Ni-plated surface treatment							
			50-25	306	<div><div></div><div></div></div>		B-C	Ni-plated surface treatment							
			40-20	500	<div><div></div><div></div></div>		B-C	Packings Nitrogen buffer							
			65 SINGLE ACTING	14	<div><div></div><div></div></div>		B-C	Packings Nitrogen buffer							
7	SA150		45 ACTING	14	<div><div></div><div></div></div>	<div><div>NO LUBE</div><div>OIL FREE</div><div>LUBE</div></div>	B-C	Ni-plated surface treatment							
			37	42	<div><div></div><div></div></div>		B-C	Packings Nitrogen buffer							
			65 SINGLE ACTING	14	<div><div></div><div></div></div>		B-C	Ni-plated surface treatment							
			40	42	<div><div></div><div></div></div>		B-C	Packings Nitrogen buffer							



Hydrogen

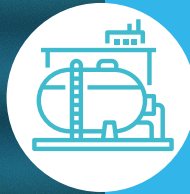
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IN 2021, FORNOVO GAS LAUNCHED A DEDICATED RANGE OF ALTERNATIVE COMPRESSORS SPECIFICALLY DESIGNED FOR HYDROGEN. THESE COMPRESSORS ARE NOW TRUSTED SOLUTIONS ACROSS VARIOUS APPLICATIONS, INCLUDING :



PIPELINE INJECTION

.....



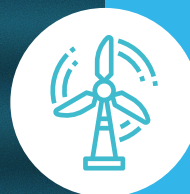
INDUSTRIAL ENERGY - FEEDSTOCK

.....



SYNGAS

.....



POWER TO GAS

Match with 1 MW Electrolyzer

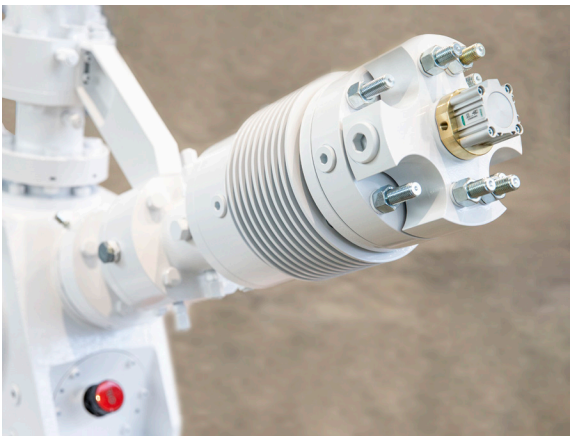
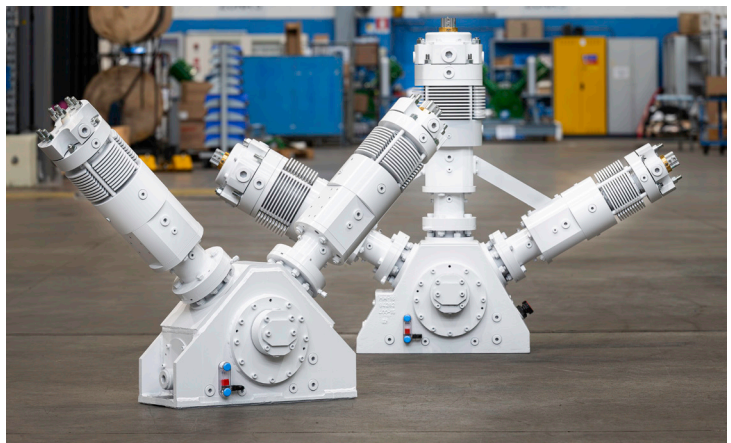
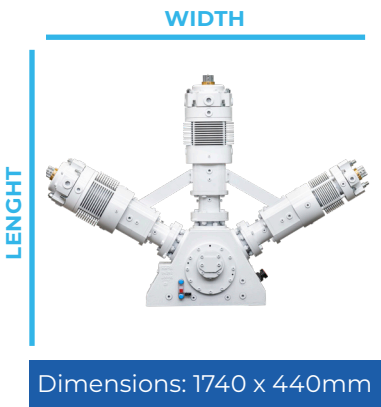
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The Product

VERTICAL RECIPROCATING COMPRESSOR

The **SA200** is a high-performance **oil-free reciprocating compressor** designed for demanding hydrogen applications.

Engineered for **efficiency, reliability, and safety**, it features a **modular design** and precision components, ensuring **optimal operation** and **compliance** with **industry standards**, ideal for industrial and renewable energy projects.

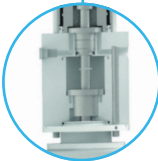


SA200 HYD

MAIN Specifications

- > **OUTLET PRESSURE**
Up to 450 bar
- > **POWER**
Up to 55 kW
- > **FLOW RATE**
Up to 100 kg/h
- > **COMPRESSION STAGES**
Up to 4

Main Features



DISTANCE PIECE, PRESSURE PACKINGS AND PISTON RODS

Distance piece and pressure packing : Flushed with inert gas (Nitrogen) to ensure safety and prevent leakage to the environment

Double distance piece and treated piston rods: Specially engineered to prevent hydrogen embrittlement, ensuring durability and reliability in hydrogen applications.



VALVES, CYLINDER HEAD AND SEALS

Cylinder heads, seals and gaskets: Made from hydrogen-specific materials to minimise leakage and improve system efficiency.

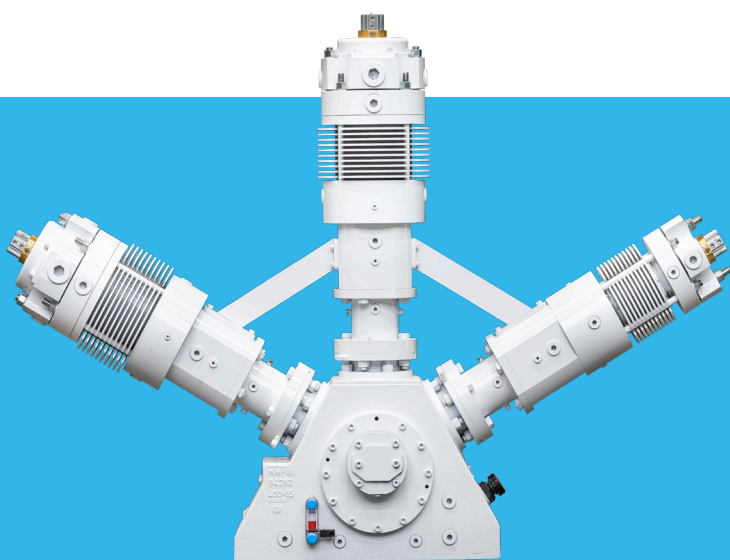
Valves and piston seals : Specially designed to optimise performance and increase durability.



OIL FREE

Fornovo Gas' compressors are designed to **operate completely oil-free**, meaning they do not require oil for cylinders lubrication. This design **eliminates the risk of oil contamination** in the process gas.

Each compressor is engineered to work **cleanly** and **efficiently**, ensuring that both the environment and the equipment remain free from contaminants.



Advantages



ITALIAN
QUALITY



EASY
MAINTENANCE



LOW
OPERATIONAL
COSTS



EXCELLENT
FLEXIBILITY



ISO 14687
SAE J2719

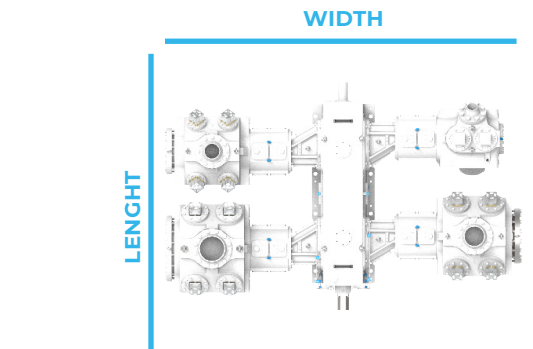
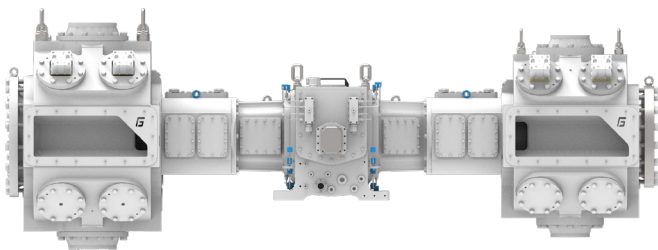
The Product

HORIZONTAL RECIPROCATING COMPRESSOR

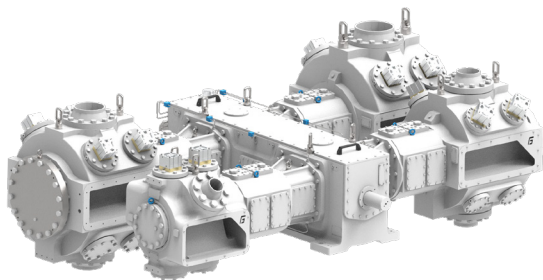
The **DA500** is a **horizontal reciprocating compressor** for **hydrogen applications**, designed to deliver unmatched performance and reliability.

Featuring advanced **oil-free technology**, it guarantees **purity** and **efficiency**, making it the ideal choice for demanding hydrogen systems.

With its **robust construction** and **modular design**, the DA500 offers **maximum adaptability** to various flow rates and pressures, ensuring seamless integration into your operations.



2 cylinders	Dimensions: 3762 x 850mm
4 cylinders	Dimensions: 3762 x 1900mm
6 cylinders	Dimensions: 3762x 3000mm



DA500 HYD

MAIN Specifications

- > **OUTLET PRESSURE**
Up to 450 bar
- > **POWER**
Up to 1800 kW
- > **FLOW RATE**
Up to 4500 kg/h
- > **COMPRESSION STAGES**
Up to 5

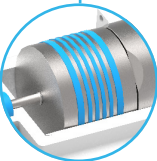
Main Features



DISTANCE PIECE, PRESSURE PACKINGS AND PISTON RODS

Distance piece and pressure packing : Flushed with inert gas (Nitrogen) to ensure safety and prevent leakage to the environment

Double distance piece and treated piston rods: Specially engineered to prevent hydrogen embrittlement, ensuring durability and reliability in hydrogen applications.



VALVES, CYLINDER HEAD AND SEALS

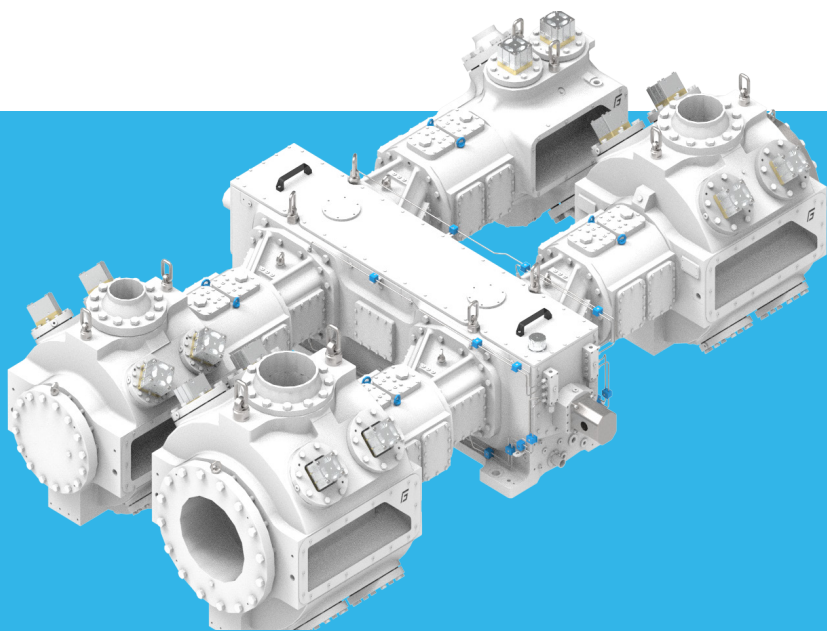
Cylinder heads, seals and gaskets: Made from hydrogen-specific materials to minimise leakage and improve system efficiency.

Valves and piston seals : Specially designed to optimise performance and increase durability.



DISTANCE PIECE TYPE C

The **Distance Piece Type C** ensures an **oil-free compression** process with its **double-compartment design**. This innovative feature prevents oil contamination, guaranteeing the **purity** of compressed gases like hydrogen while delivering top-tier performance, reliability and safety.



Advantages



ITALIAN
QUALITY



EASY
MAINTENANCE



LOW
OPERATIONAL
COSTS



EXCELLENT
FLEXIBILITY



ISO 14687
SAE J2719

What We Do
.....

Choose Our

The **Service Department** at Fornovo Gas is dedicated to providing **fast, reliable, and expert support** for our customers. We focus on ensuring the optimal performance and longevity of our gas compressors through **tailored solutions** and **prompt assistance**. Our skilled team is always ready to deliver **high-quality service**, keeping your **operations running smoothly**.



EXPERTISE YOU CAN
TRUST
.....

Our team comprises **certified technicians and engineers** with extensive experience in gas compression technology, ensuring your systems receive the **highest standard of care**.



CUSTOMIZED
MAINTENANCE PLANS
.....

We offer **maintenance programs** designed to meet your specific operational needs, **minimizing downtime** and **maximizing performance**.



GLOBAL SUPPORT
NETWORK
.....

With a robust **global presence**, our service network ensures **timely assistance** and **quick access to spare parts**, no matter where you are located.

Our Services



LONG TERM SUPPORT

We aim to **build lasting relationships** with our **clients**, providing continuous support throughout the compressor's lifespan to ensure optimal performance and quality service.



SPARE PARTS

We supply **original Fornovo Gas components**, guaranteeing compatibility and maintaining the integrity of your equipment.



TRAINING & KNOWLEDGE SHARING

We empower your team through **specialized training sessions**, enhancing operational efficiency and ensuring safe and effective equipment handling.

R&D Software

Fornovo Gas has developed a **proprietary system**, an advanced **simulation software**, designed to predict the **optimal configuration** and **performance** of compressors in relation to specific applications.



CONFIGURATION OPTIMIZATION

The software is designed to **predict** and **optimize** compressor configurations tailored to the specific requirements of industrial processes. This helps **improve efficiency** and system **performance**.



PERFORMANCE SIMULATION AND ANALYSIS

It allows for **simulating** compressor operation under various scenarios and **analyzing** their performance in real-time, providing data and forecasts to optimize operations and **reduce energy consumption**.



CUSTOMIZATION FOR SPECIFIC PROCESSES

The software can be adapted to different industrial applications, offering **customized configurations** that meet the precise needs of each client, ensuring high performance and maximizing system reliability.



FORNOVOGAS S.p.A.

Legal and operational headquarters

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WE MOVE ENERGY



SCAN

To Learn More
About Our
Compressors



SCAN

To see Sonny &
Mizu Calendar.



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