

2A ENGINEERING



ENGINEERING PERFORMANCE. DELIVERING TRUST.

The Future Solution Partner for Fuel
and Autogas Stations.



We don't just manufacture dispensers. We ensure they deliver even better performance.

The outer casing is just a protective shell. The real difference lies in the engineering inside the machine.

As a Grade 2A engineering company, we design all hydraulic and electronic systems in-house with our AR-GE infrastructure, ensuring the highest performance and reliability in line with the most rigorous standards.



30+ YEARS

Sectoral Leadership and Innovation.



Global Supplier

Reliable OEM and brand supplier for the world's largest autogas and fuel distribution companies.



Continuous R&D

Driving technological development tailored to sector needs since 1995.



International Standards

100% compliance and registered safety with ATEX, OIML, and MID certifications.

THE CENTER OF ENGINEERING: LPG Hydraulic Assembly



System Diameter: DN25
Nominal Pipe Size (Inlet/Outlet)

Operating Pressure: 7 - 25 bar

Flow Capacity: 5 - 50 L/min
Optimum Flow Rate

Temperature Resistance
Uninterrupted operation in
ambient temperatures from
-25 C to +55 C.

Certification
EC type approval, 100% compatible with all
MID-certified dispenser systems.



LPG METER



Product Features

Pistons	4
Measurement Accuracy	$\pm 0.5\%$
Cycle Volume	0,5 Liter
Magnetic Coupling	14000 Gauss
Body	GGG40 cast iron

Self cleaning and self washing system.

Cold stamped shaft and crank.

1.5 million liters warranty.

Thanks to EC type approval it can be used in all dispenser which has MID certificate.

OIML R117 Certified

LPG NOZZLES



ATEX
CERTIFIED



PRODUCT FEATURES

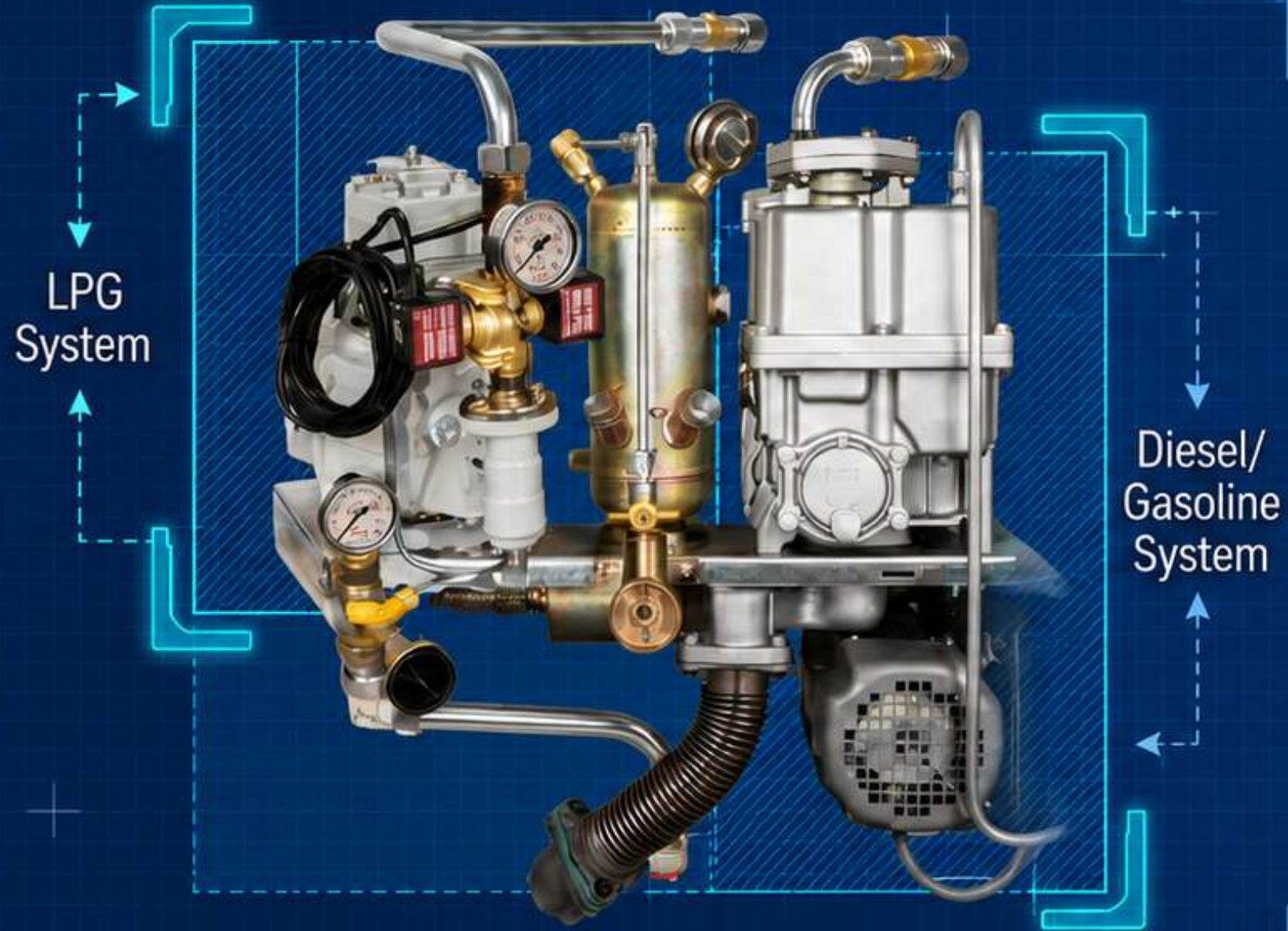
Size	19,9x23,1x6 (cm)
Connection Dimensions	1" BSPP End
Temperature	-45+55 °C
Working Pressure	25 bar
Test Pressure	37,5 bar
Sealing	Polymer and Elastomer O-ring
Components	MS58 Brass Metal, 6013 Al, Chrome, Nickel
Product Weight	1650 gr
Usage	LPG systems



SPACE SAVING & INNOVATION: Combo Hydraulic Group



Maximum functionality in narrow spaces. Flawlessly integrating both LPG and Diesel/Gasoline systems into a single chassis.



Multi-Fuel Compatibility

Simultaneous LPG (5-50 L/min) and Diesel/Gasoline (50 L/min) integration.



Compact Design

Minimum footprint on station islands, delivering maximum operational efficiency.



Common Standard

Engineered to M2 mechanical class with a high Accuracy Class of 0.5 for both fuel types.

PRECISION THAT MATTERS: LPG Master Meter Solutions.

Exact measurement for safe and efficient LPG distribution.

Mechanical Meter



- ✓ - Prima Meter featuring high accuracy of 0.3% - 0.4% (performing well beyond the 0.6% legal limit).
- ✓ - Engineered for long service life and proven durability.

Coriolis Meter



- ✓ - Massflow technology providing ultra-precise measurement with a maximum 0.2% accuracy.
- ✓ - Built for advanced calibration and accredited verification standards.

INTEGRATED SYSTEMS: Our Dispenser Portfolio



LPG Dispenser

MID & ATEX & CE certified

- Eltomatic brand pulser shaft
- ATC (Automatic Temperature Compensation) system
- 14,000 gauss magnetic system.



Fuel Dispenser

MID & ATEX & CE certified

- Gasoline and Diesel compatibility
- MID & ATEX certified electronic architecture
- Stainless steel casing option.



CNG Dispenser

MID & ATEX & CE certified

- 250 bar operating pressure
- +/- 0.2% meter accuracy
- 1 to 77 kg/min flow rate capacity.

CNG DISPENSER

2A SERIES



CNG DISPENSER PARTS DESCRIPTION



Description	2A	
	NGV 1	NGV 2
Meter	EH 8ff15	EH 8ff25
Flow Rate	40 kg/min	70 kg/min
Temperature Range	-25°C to +55°C	-25°C to +55°C
Working Pressure	250 bar	250 bar
Maximum Pressure	375 bar	375 bar
Coalescing Filter	Yes	Yes
Line	Up to 3 lines	Up to 3 lines
Nozzle Type	Staubli/WEH	Staubli/WEH
Hose Type	Eaton/Parker	Eaton/Parker
Breakaway Type	Staubli/WEH	Staubli/WEH
Check Valve	Legris 3/8"	Legris 3/8"
Pressure Relief Valve	*	*
Pressure Gauge	400 bar	400 bar
Emergency Shutoff Valve	Manual/Auto	Manual/Auto
Pressure Regulator	Optional	Optional
Pneumatic Actuated Ball Valves	Optional	Optional
Solenoid Valve	Asco 3/8"	Asco 1"
Solenoid Sequencing Valves	In 2/3 lines	In 2/3 lines
Tubing	12 mm (SS316)	1" (SS316)
Vent Connection	12 mm (SS316)	1" (SS316)
Preset	Yes	Yes
Flow Control System	Yes	Yes
Temperature Control System	Yes	Yes
Pressure Control System	Yes	Yes
Impact Sensor	Optional	Optional
Gas Sensor	Optional	Optional
Automatic Grounding System	Yes	Yes
SCADA System	Yes	Yes
Changeable Density	Yes	Yes

* According to configuration.

EXTREME ENGINEERING: LNG Solutions.

Cryogenic precision for the alternative fuels of the future.

15-90 kg/min

Capacity

(Minimum to maximum flow rate)

< 1.5%

Accuracy Rate

(Advanced measurement precision)

-162 C / -104 C

Extreme Cold Working Limits

(Superior endurance for liquefied gas)

22 bar

System Resistance

(Maximum pressure threshold)

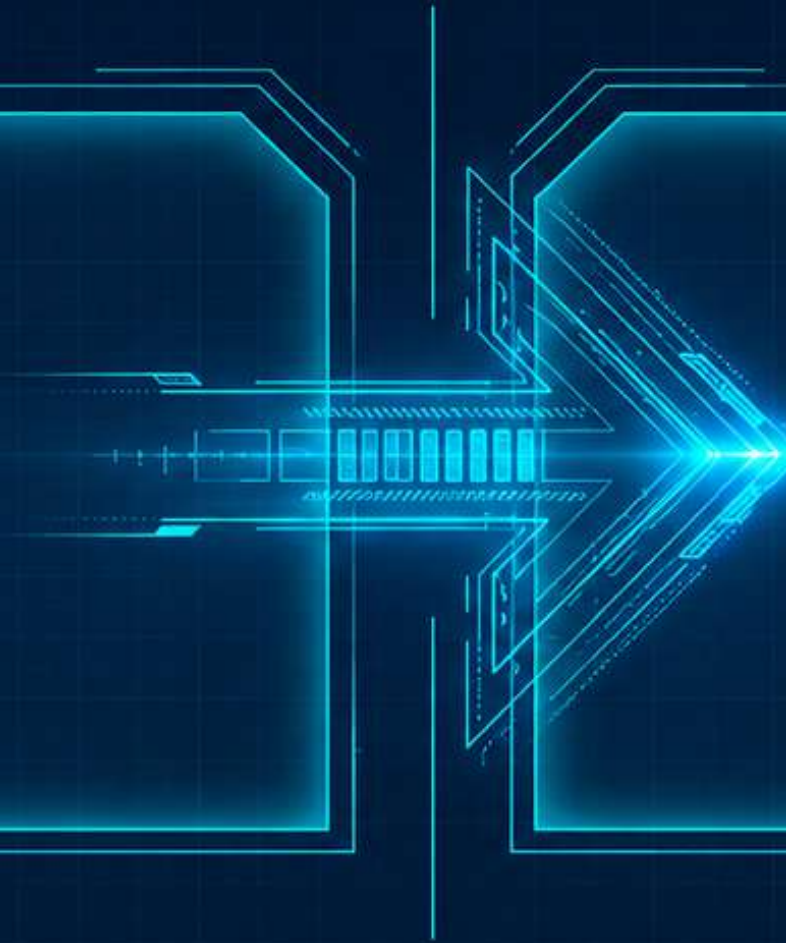


CUSTOMER SPECIFIC: OEM & Flexible Production (Modular Architecture).



LEGO Logic

Fully modular hydraulic and electronic groups allow for fast, easy, and low-cost add-ons tailored to growing needs.



Custom Architecture

Premium exterior builds utilizing 316-grade or 430-grade stainless steel, or galvanized painted steel (DKP).



Full Customization

Configurations explicitly designed to match your station's corporate identity, architecture, and exact model requirements.

EUROPE'S LARGEST CNG FILLING STATION: SOCAR BLUELINE

Baku, Azerbaijan & Türkiye General

A2A

1 CAPACITY:
10,000 m³
filling capacity
per hour.

2 SCALE:
Consists of
18 CNG stations
and 2 filling plants.

3 DONATION POWER:
Integration of a total of
3 unit-developed CNG
compressors in the project.



We deliver the backbone of international energy corridors by supplying turnkey solutions, not just equipment.

CNG DISPENSER



CNG COMPRESSOR



CNG PRIORITY PANEL



CNG STORAGE SYSTEM



LPG PUMPS (6 - 8 Stages)



Product Features

- 3000 Series / 4000 Series / 5000 Series / 6000 Series
- High efficiency, energy saving design.
- Compact and robust construction.
- Low NPSH, smooth and reliable operation.
- Suitable for liquid phase LPG transfer.
- Easy maintenance and long service life.
- ATEX & CE Certified.



3000 Series

	6 Stage	8 Stage
Inlet	2 ½"	2 ½"
Outlet	1 ¼"	1 ¼"
Pump Capacity	90-100 lt/min	100-120 lt/min
Pump Capacity	5,4-6 m ³ /h	6-7,2 m ³ /h
Exproof motor power	4 kw	4 kw

4000 Series

	6 Stage	8 Stage
Inlet	3 "	3 "
Outlet	1 ½"	1 ½"
Pump Capacity	220 lt/min	230 lt/min
Pump Capacity	13,2 m ³ /h	13,8 m ³ /h
Exproof motor power	5,5 kw	7,5 kw

5000 Series

	6 Stage	8 Stage
Inlet	4"	4"
Outlet	2"	2"
Pump Capacity	400 lt/min	450 lt/min
Pump Capacity	24 m ³ /h	27 m ³ /h
Exproof motor power	18,5 kw	22 kw

6000 Series

	6 Stage	8 Stage
Inlet	4"	4"
Outlet	2 ½"	2 ½"
Pump Capacity	550 lt/min	600 lt/min
Pump Capacity	33 m ³ /h	36 m ³ /h
Exproof motor power	30 kw	37 kw



Stronger Systems. Stronger Partnerships.

Shape the energy of tomorrow today with 2A Engineering A.S.

LPG SKID SYSTEMS: Mobile & Integrated Solutions.

Rapid deployment architecture for temporary or permanent autogas distribution.



Scalable Capacity

Engineered to order, utilizing AD 2000 / EN 12493 compliant storage tanks ranging from 3m³ to 200m³.

Plug & Play Deployment

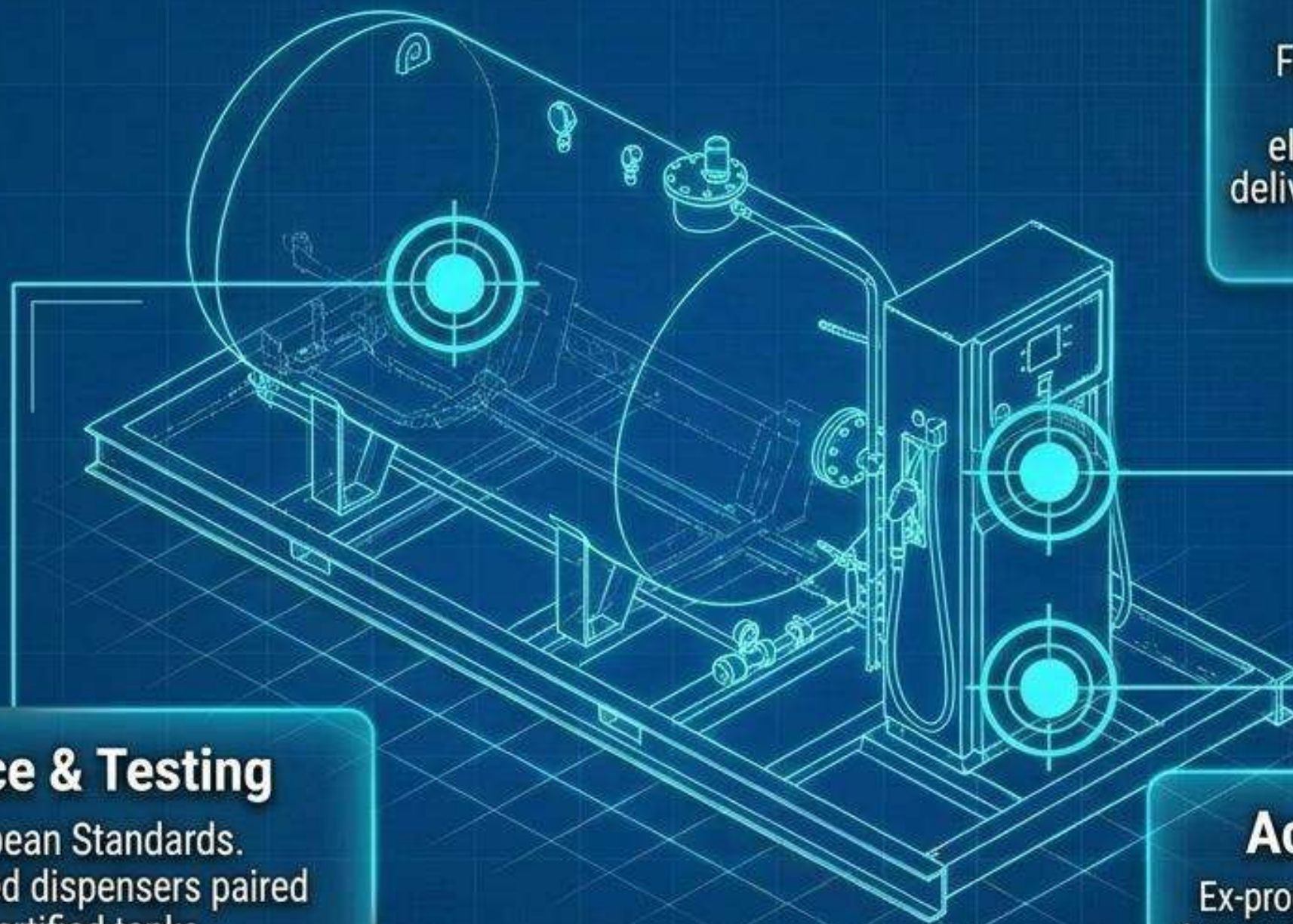
No complex site installation or heavy facility construction required. The system is ready for immediate LPG delivery the moment power is supplied.

Space Optimization

Minimal ground footprint, combining pressurized storage, multi-stage pumping, and precision dispensing into one unified, rigid chassis.



TECHNICAL EXCELLENCE: Skid Safety & Automation.



Automation & Control

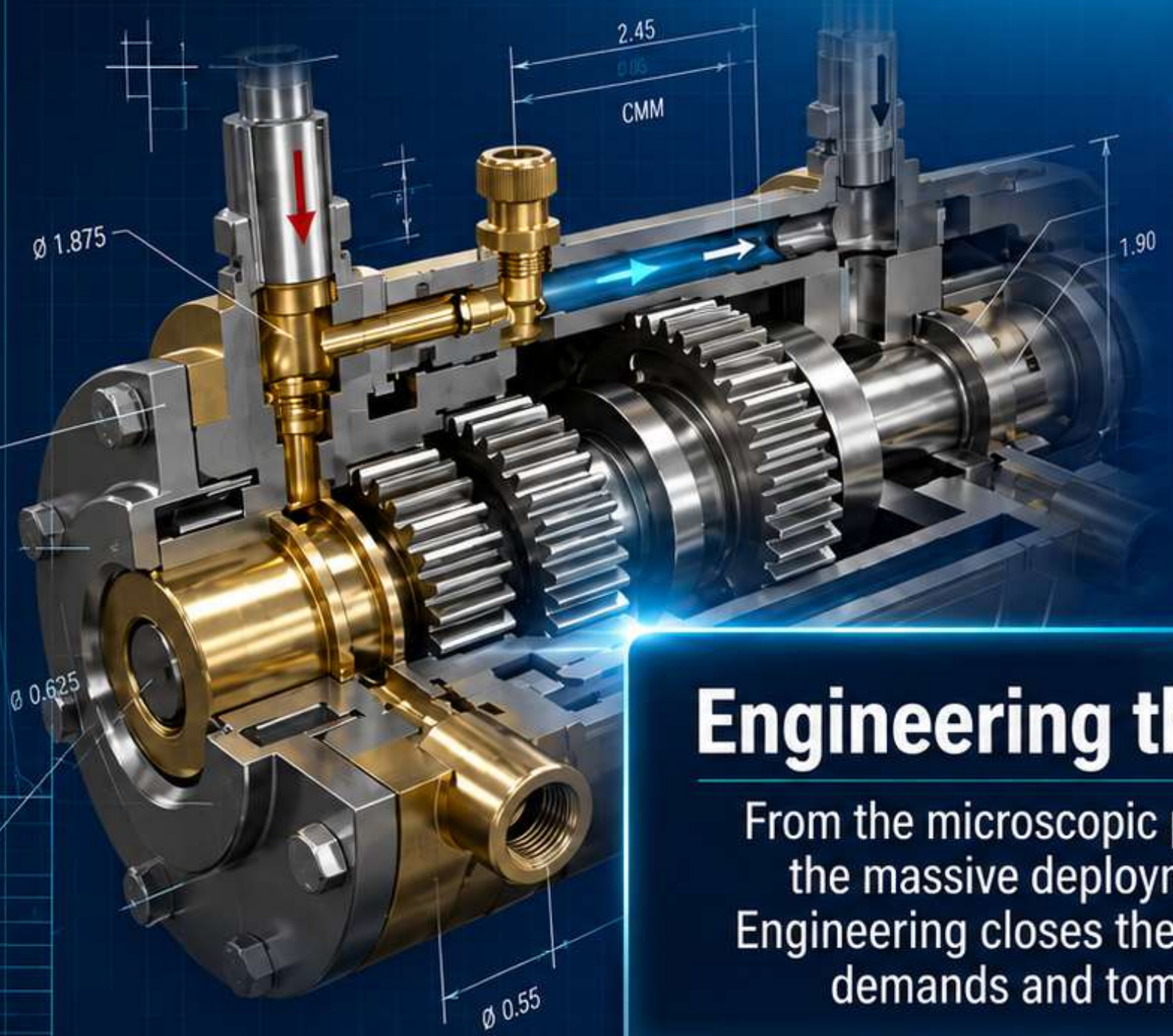
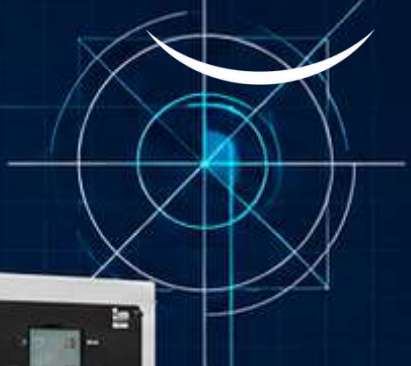
Full RS485 communication support. Integrated electronic tank measurement probes deliver seamless daily/shift reporting and real-time gas level telemetry.

Compliance & Testing

Built to European Standards. ATEX & CE-certified dispensers paired with Loyd-certified tanks. Rigorously verified via UT (Ultrasonic) and RT (Radiographic) weld testing.

Active Safety Protocols

Ex-proof electrical connections. Features an integrated gas leak detection system linked to pneumatic shutdown valves and an emergency stop spanning the entire operational footprint.



Engineering the Future of Energy.

From the microscopic precision of internal hydraulics to the massive deployment of mobile skid stations, 2A Engineering closes the gap between today's operational demands and tomorrow's energy innovations.

≡ **PERFORMANCE DRIVEN. TRUST DELIVERED.** ≡



GET IN TOUCH

Contact us to discuss your projects with our R&D team or to get information about our global dealer network.



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