



DRIVEN BY ACCURACY



COMPANY PROFILE



dvgautomation.com

ABOUT US

Established in 2007,

DVG Automation is an Italian manufacturing company and a global leader in the design and production of pneumatic, hydraulic, electro-hydraulic and gas-operated piston actuators, as well as related control systems.

Our solutions are engineered for quarter-turn and linear valves, supporting flow control process automation across production, transportation and distribution.

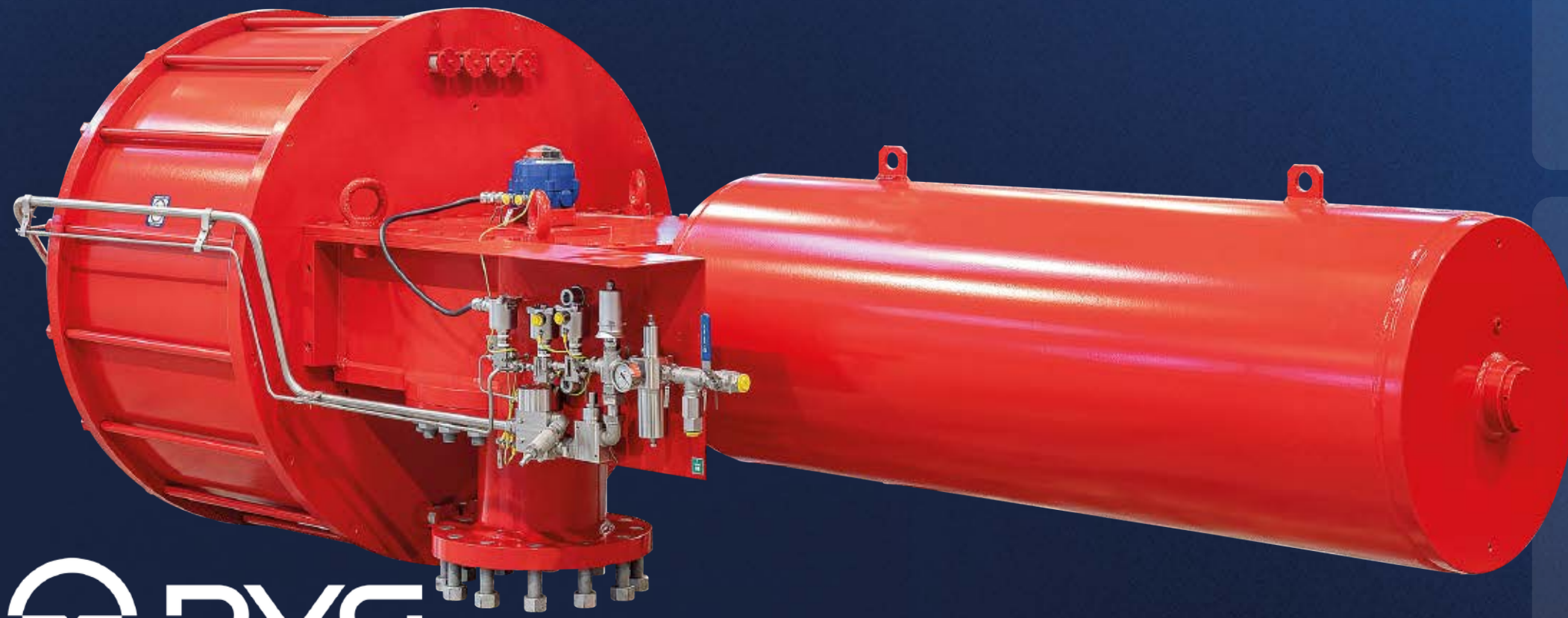
The company has a proven track record in demanding industrial applications, with a strong focus on the Oil & Gas industry, where reliability, safety and high performance are critical.



DVG AUTOMATION

in brief

Since its founding, DVG has quickly become a global leader in Valve Automation, compliant with international standards, representing today a guarantee of reliability, performance and long-term value for its customers.



Quality system and certifications compliant with international standards.

The R&D department is constantly driving technical innovation, including patented piston-type actuator solutions.

Fully equipped to handle all stages of the production process and supports the entire supply chain.

Advanced technologies driving efficient design and manufacturing with high customization capacity.



VISION

To be the benchmark for those who aim to master technical complexity and turn it into reliable systems.

MISSION

We embrace and analyze complexity to transform it into solid, controlled outcomes.

We lead every project with a structured method, taking full responsibility for technical oversight and carrying it through complete fulfillment.

VALUES

- **RESPONSIBLE EXPERTISE**
Expertise is respect for the outcome.
- **ETHICS OF DOUBT**
Understand first, then act.
- **RELIABILITY**
We are a steady point in complex decisions.
- **CONTROL**
Every variable is managed, every risk assessed.
- **PROTECTION**
We prevent in order to ensure safety and continuity.
- **METHOD**
No improvisation, only informed decisions.
- **RESPONSIBILITY**
The work is finished only when it truly works.

PRODUCT RANGE



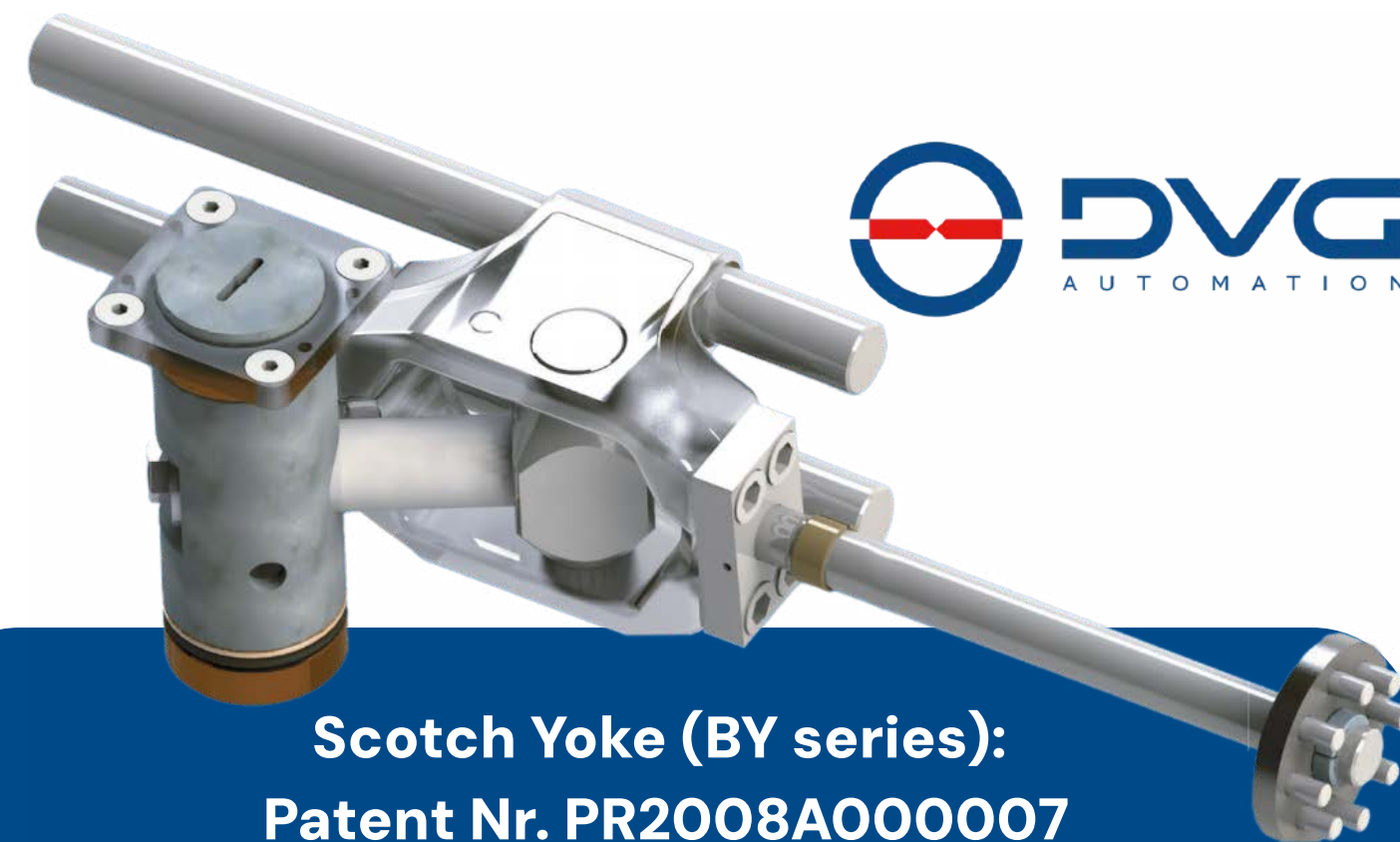
ACTUATOR QUARTER TURN & LINEAR	CONTROL SYSTEMS & ACCESSORIES
Hydraulic	Pneumatic Control System
Pneumatic	Hydraulic Control system
Gas Over Oil	HIPPS Control System
Direct Gas	Partial Stroke Test Devices
Electro Hydraulic	Pneumatic Pilot Valves
Quick Acting	Quick Exhaust Valves
Compact helical slot	Limit switches
Hydraulic power unit	Hydraulic Power Valves
Self contained hydraulic unit	Volume Booster

HIGH-EFFICIENCY SCOTCH YOE ACTUATORS

DVG Automation's Scotch Yoke design delivers compact, lightweight quarter-turn actuators with enhanced performance and reliability.

The "QT" and "BY" series integrate advanced engineering features to maximize efficiency while offering a cost-effective solution for demanding applications. At the core is a patented mechanism that reduces wear on loaded and sliding components, ensuring smoother operation and significantly extending service life.

P A T E N T



Scotch Yoke (BY series):
Patent Nr. PR2008A000007

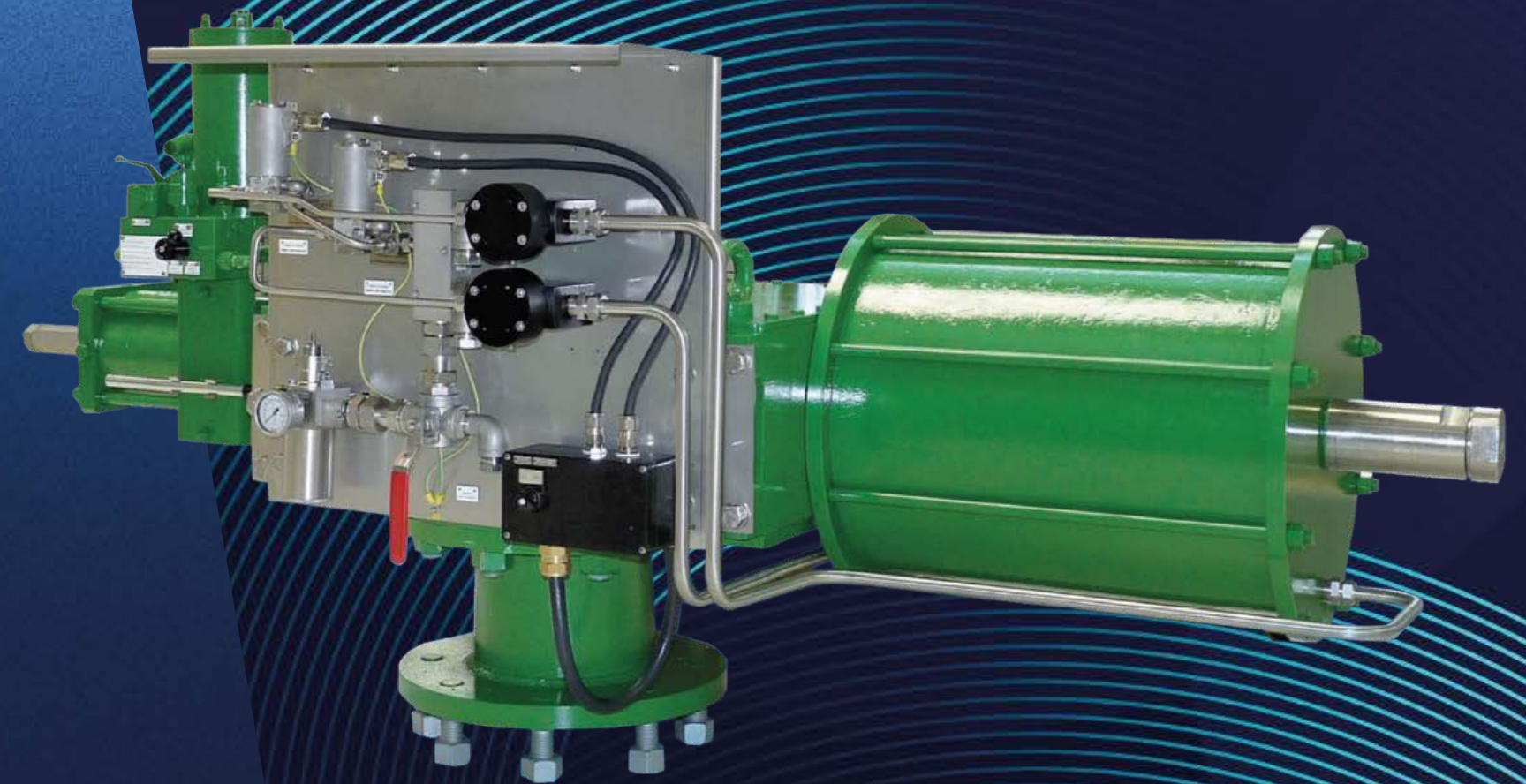


Scotch Yoke (QT series):
Patent Nr. PR2008A000006

SCOTCH YOKE QUARTER TURN

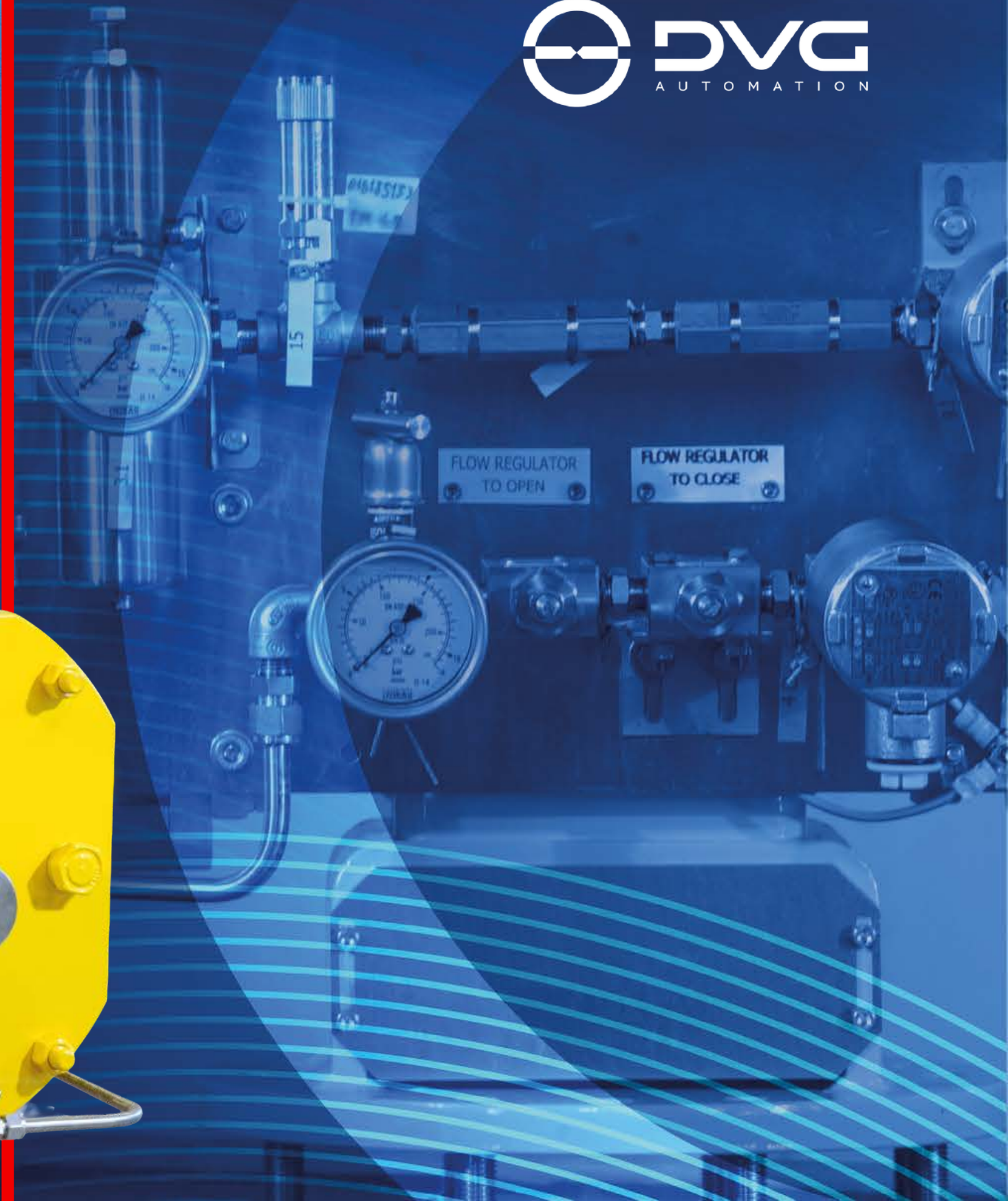
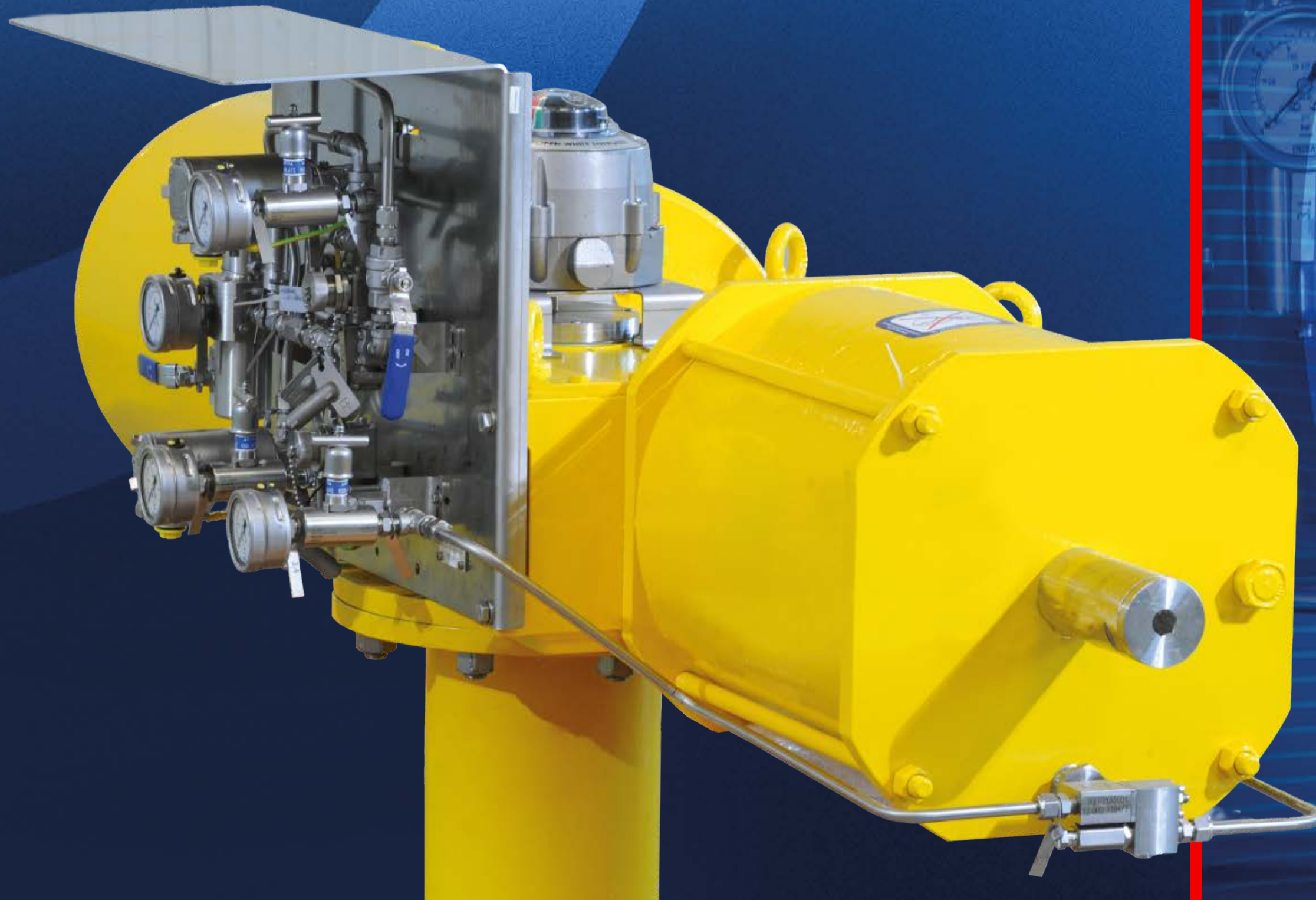


BY SERIES
UP TO 13.000 NM



QT SERIES
UP TO 800.000 NM

PNEUMATIC ACTUATORS





HYDRAULIC ACTUATORS

ELECTROHYDRAULIC SELF CONTAINED COMPACT



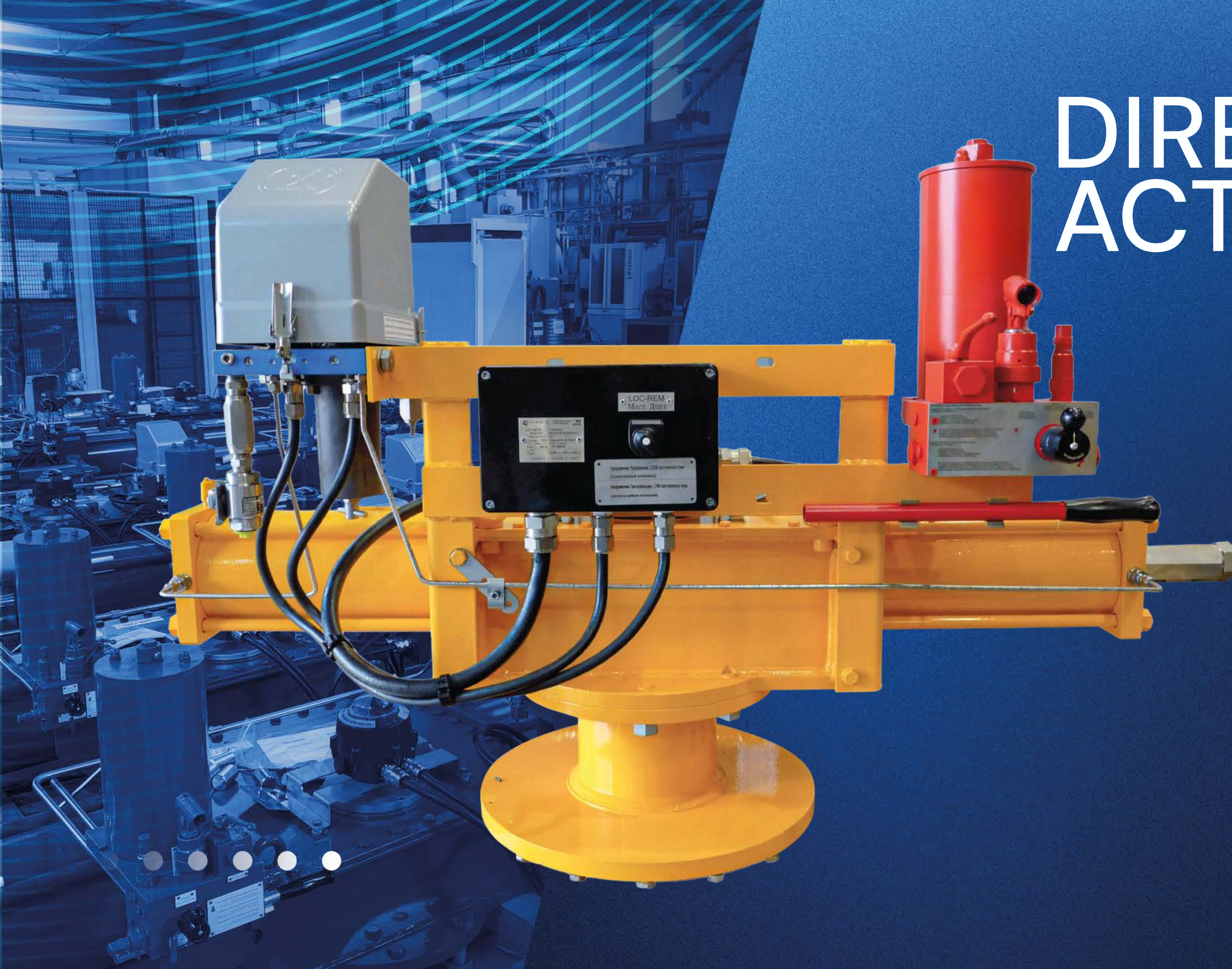
ELECTROHYDRAULIC CUSTOMIZED



GAS OVER OIL ACTUATORS



DIRECT GAS ACTUATORS



LINEAR ACTUATORS

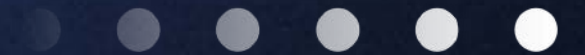




QUICK ACTING ACTUATORS

HIPPS APPLICATION

COMPACT HELICAL SLOT



HYDRAULIC POWER UNIT



CONTROL SYSTEMS



DVG designs and manufactures high-integrity actuator control systems, supplied as panels or cabinets in 316 stainless steel for maximum resistance and durability.

Systems are engineered to customer specifications, using DVG-designed pneumatic components or customer-approved brands.

A compact, modular design is available, offering key benefits including high corrosion resistance, suitability for space-constrained installations, reduced weight, and overall cost efficiency.

Resistance

Space Constraint

Weight and cost reduction

Control Systems production apply to:

Pneumatic

Gas

Hydraulic

Electro hydraulic

ELECTRONIC DEVICES

- LIMIT SWITCH BOX
- POSITION TRANSMITTER
- SMART PARTIAL STROKING TEST UNIT – SDCU

MECHANICAL PARTIAL STROKING TEST

LOCKING DEVICES



Order	2009/2935
Ackn.	PM 9/11/11
Serial N°	P09611100031001
Year	2010
Model	BYP-S-20S-175-20-01-NO
Valve Tag	T72-500-3105
Allowable Temp. Range (TS)	-100/+600
Max Allowable Pressure (PS)	12 BARG
Supply Pressure Range	4-7 BARG
Max Operating torque	2000 NM
CE 0474 Ex II 2GD c T4 IP67M	

ENGINEERING



Our design and manufacturing processes combine the highest quality and efficiency standards with advanced technologies. Full 3D CAD/CAM systems and a centralized PDM platform ensure precision, consistency, and seamless management of technical data.

ADVANCED ENGINEERING CAPABILITIES

We provide comprehensive technical analyses, including SIL calculations (Safety Integrity Level – SAR Report) and structural assessments using Finite Element Analysis (FEA), in compliance with international standards.

Our engineering team includes certified FS Engineers, qualified according to IEC 61508 and IEC 61511 standards, as well as IECEx certification aligned with EN 60079 regulations.

INTEGRATED TECHNICAL DOCUMENTATION

All functional diagrams and wiring diagrams are developed in-house, ensuring full control over design accuracy and customization.

Technical manuals are prepared in compliance with the European Machinery Directive 2006/42/EC, guaranteeing clarity, safety, and regulatory adherence.

APPLICATION ENGINEERING



DVG boasts a team of engineers dedicated to providing technical support during the proposal phase, carrying out in-depth analysis of customer specifications.

DVG

MANUFACTURING PLANT



Total Area
13.000 m²

Shop floor area
6.500 m²

Full steam production level is
5.000
units per annum, fully customized
and individually tested one by one.

All major activities such as Welding, Machining, Assembling and Testing are carried out internally ensuring full control of the manufacturing process, guaranteeing a high percentage of on time delivery. Modern Equipment and Technologies are the core of DVG production system and include:

Robot units, perform structural welding, guaranteeing the perfect repeatability on complex components.

Presses for spring cartridge assembly up to 70 tons, able to measure the effective spring force.

Highly efficient Horizontal Machining Centres (up to six axis).

Automated Tubes Bending Machine allows high flexibility and high volumes, while maintaining low process costs.

Automatic warehouse.



MANAGEMENT TOOLS

DVG has implemented the ERP SAP® Management System, developing in particular the “Engineering to Order” Module, which allows a severe though flexible management of both the activities connected with the job orders, and the operations linked with the accounting and/or logistical flows.



QUALITY

Since its foundation in 2007 DVG AUTOMATION has worked on its quality system and certifications in order to comply to the International standards.

DVG has also been qualified and approved by the major international end users and engineering companies proving to be a most reliable actuators manufacturers. All finished actuators are tested and certified by our internal quality department before being released.

DVG Quality System includes the following Certifications:



ISO 9001

Quality Management System

ISO 14001

Environmental Management System

ISO 45001

Health and Safety Management System

TESTING

DVG Automation has invested from the outset in a high-performance testing department, ensuring that production efficiency is never compromised. Our test ring is equipped with a comprehensive range of static and dynamic test benches, covering a wide spectrum of torque requirements.

CERTIFICATIONS





RESEARCH & DEVELOPMENT



We operate multiple climatic chambers to perform high and low temperature testing, accurately simulating real installation environments in order to achieve:

- **Endurance testing in accordance with EN 15714**
- **SIL 3 certification in compliance with IEC 61508**



AFTER SALES SERVICE



DVG provides a worldwide field service response for its customers for all type of actuators and control systems.

Our services include:

- assistance during installation, commissioning and start-up activities
- diagnosis and on-site repair
- upgrading of existing units (retrofitting)
- spare parts supply
- training programs

DVG Automation ensures a strong and continuous local presence worldwide thanks to our skilled technicians and the support of our qualified partners.

Support can be planned or provided in emergency situations, and spare parts availability is guaranteed for a minimum of 10 years from the customer order date.





DVG AUTOMATION S.p.A.

Headquarters:

Via G. Rossetti, 2 – 29016 Cortemaggiore (PC) – Italy
REA Nr 167410 VAT Nr 01494460338

Contacts

Tel. (+39) 0523 255811
Fax (+39) 0523 255890

www.dvgautomation.it
info@dvgautomation.it