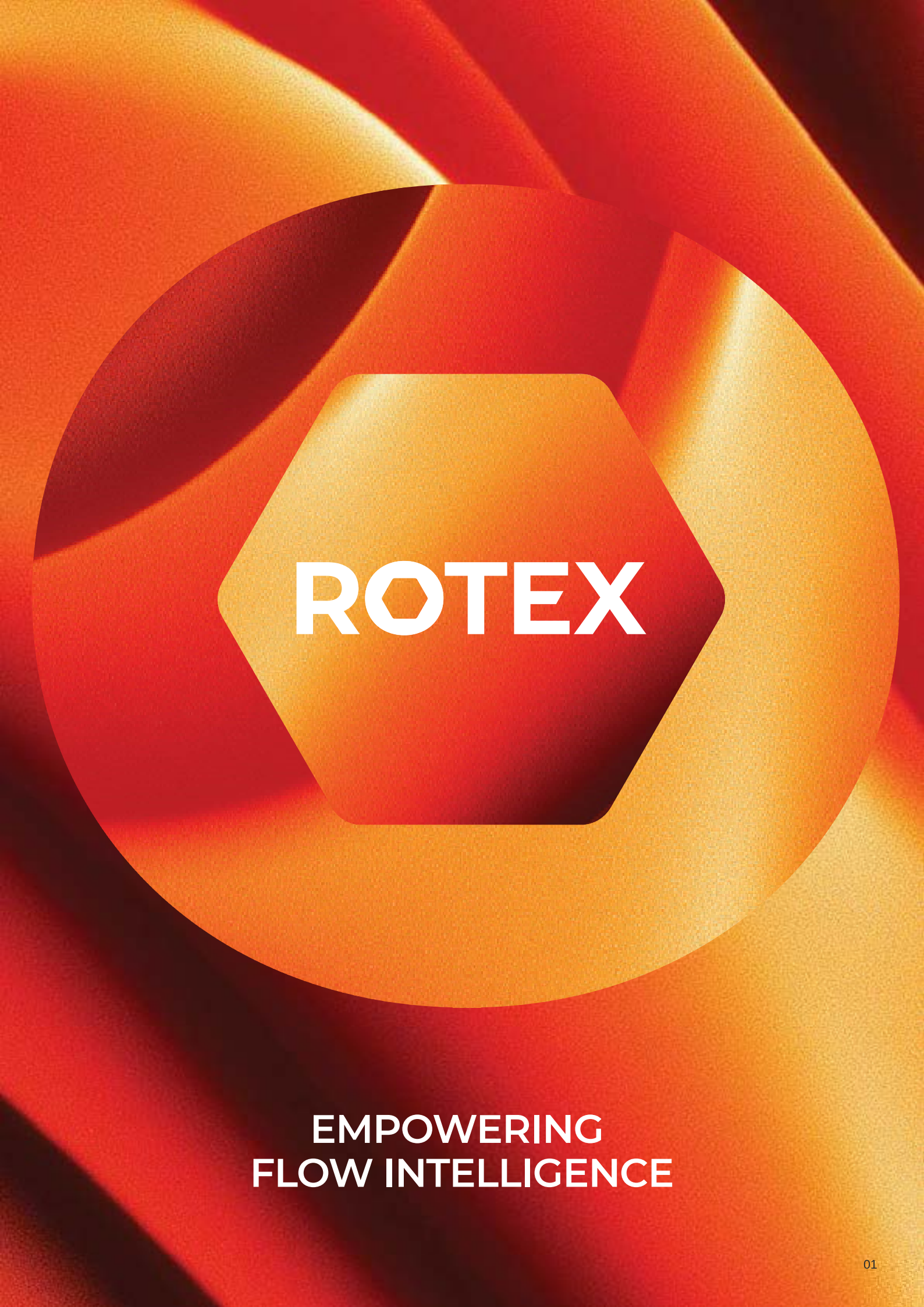


EMPOWERING FLOW INTELLIGENCE

THE ARCHITECTS OF FLOW

Six decades of engineering the way the world flows.

From a Single Component to the Pulse of Industry

In 1967, our journey began with a valve that could withstand the realities of an imperfect world. From the extreme pressures of the deep sea to the zero-tolerance zones of aerospace, we have built a legacy by mastering the challenges that define the limits of engineering.

The Scale of Our Impact

We serve 7,000 customers across 83 countries, supported by a network of localized expertise in Europe (Netherlands), the Middle East (UAE), and India. By perfecting the solenoid valve, the smart positioner, and the electro-hydraulic actuator, we are commanding the outcome of flow at every scale and ensuring that the energy, mobility, and resources that drive civilization move with precision, safety, and intelligence.

30%	CAGR since the 90s
33	Utility Patents
83+	Countries Served Worldwide
21+	International Certifications
53%	Revenue from Export
87+	Global Distributors
7000+	Customers
6100+	Customised Solutions Developed

LEADERSHIP BY DESIGN

RAJESH SHAH

Managing Director – Rotex Automation Ltd.

With over four decades of leadership, Rajesh Shah has been instrumental in shaping Rotex into a globally recognized flow control company. His strategic vision, financial foresight, and customer-focused approach have guided the company's expansion and sustained its long-term growth. By aligning financial strategy with investments in technology and capabilities, he continues to build on Rotex's legacy of engineering excellence and strengthen its foundation for the future.

AMIT SHAH

CEO – Rotex Manufacturers & Engineers Pvt. Ltd.

With four decades of experience, Amit Shah has driven Rotex's advancement in industrial automation and actuation technologies. Combining deep engineering expertise with a passion for innovation, he guides the development of next-generation actuation solutions that anticipate the evolving needs of industry. His leadership continues to strengthen manufacturing capabilities, drive strategic growth, and shape Rotex's global positioning as a trusted partner in advanced actuation.

NIRAV SHAH

Managing Director – Rotex Automation Ltd.

Rotex Managing Director Nirav Shah, a Mechanical Engineering Gold Medalist, author, and holder of 19 utility design patents, drives breakthrough innovations delivering significant savings for global partners like Cummins and Daimler. His leadership inspires engineers to challenge conventions, solve complex problems, and set new industry standards.

MITALI SHAH

Director, Global Business Development – Rotex Manufacturers & Engineers Pvt. Ltd.

Mitali Shah has spearheaded Rotex's global expansion across 30+ countries since 2015. With a Master's in International Marketing from Regent's University London, she drives strategic growth, organizational resilience, and inclusive manufacturing. Championing a 50% female workforce, she is shaping a globally competitive, progressive, and future-ready organization.

EMPOWERING FLOW INTELLIGENCE

Flow Intelligence is the difference between a world that reacts and a world that anticipates

This is the vision that defines Rotex. We engineer systems that empower the machines controlling our most critical environments to think as they move. From the miniature solenoid valves modulating braking systems of transportation vehicles to the electro-hydraulic actuator stabilizing a turbine under peak load, every component becomes a node of intelligence that is designed to understand context, adapt to volatility, and protect performance when it matters most.

The result is a new reality for the industries we serve. Refineries operate with higher availability and greater safety. Rail networks respond faster to demand surges. Heavy Duty Defense Trucks navigate under varied terrain conditions. Medical devices deliver life-saving precision without hesitation.

Behind every one of these outcomes is Flow Intelligence. And behind Flow Intelligence is Rotex: engineering the certainty that keeps the world moving, breathing, and building forward.

THE INTELLIGENCE ECOSYSTEM

DESIGNED & VALIDATED PERFORMANCE FOR LIFE.



SMART MANUFACTURING.

Zero compromise on quality.



PRODUCTS & TEAMS ENSURING CONSISTENT PERFORMANCE



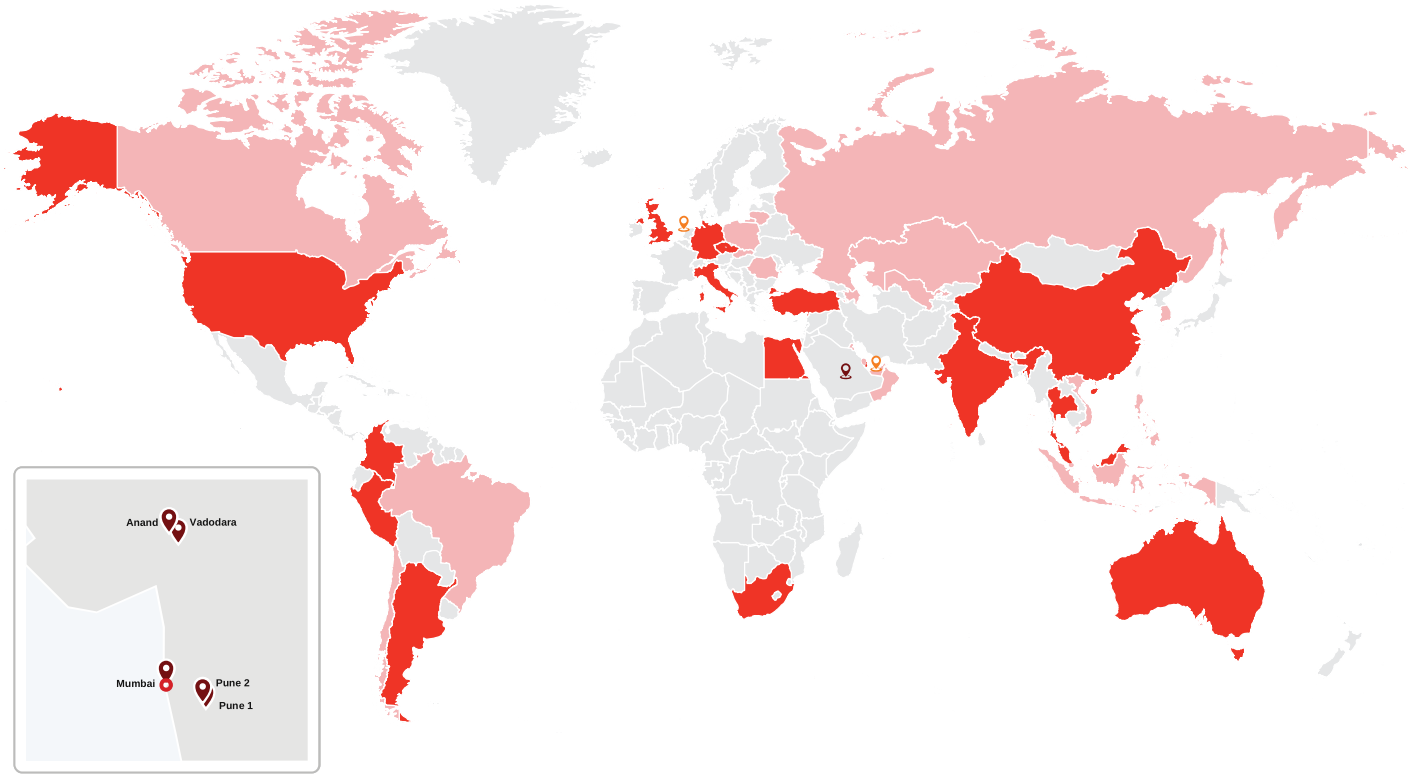
Product Certifications

System Certification

GLOBAL PRESENCE, LOCAL INTELLIGENCE

Sales & Service Associates

Direct Rotex Presence



Gujarat & Maharashtra, India (Zoomed)

2

Sales office and warehouse

Netherlands · UAE

6

Manufacturing Plants

Vadodara · Anand · Mumbai · Pune 1 · Pune 2 · Saudi Arabia

18+

Direct Rotex Presence

105+

Sales & Service Associates

THE ROTEX NETWORK

Global Reach. One Standard. Lifelong Partnership.

With direct presence in 18+ countries and 105+ channel partners worldwide, including partnerships spanning 25+ years, we combine local expertise with enduring trust, transparency and shared success.

Through certified partners, standardised service excellence and responsive lifecycle support, we sustain peak performance globally—while field insights continuously shape future engineering.

AT THE HEART OF BIG THINGS

THE SOLENOID SPECIALISTS.

Engineering the Pulse That Powers the World.

Behind the world’s most critical systems lies a decisive force: the solenoid valve. From Power Plants and aerospace to life-support systems, it transforms electrical signals into precise mechanical motion, controlling the flow of fluids.

In a fraction of a second, this small yet powerful component regulates pressure, directs flow, and safeguards entire operations.

For nearly six decades, Rotex has mastered this precision, engineering solenoid solutions that deliver reliability, control, and performance where every command matters.

Because when the world's critical systems depend on a single movement, precision is everything.

RIGOROUS INSPECTION

Every solenoid passes through 29 distinct inspection processes before shipping

EXTREME VERSATILITY

TEMPERATURE RANGE:

-60°C to 350°C (-76°F to 662°F)

PRESSURE RANGE:

Absolute Vacuum to 690 bar (10000 psi)

SIZE:

1/8 Inch to 4 Inch

VOLTAGE:

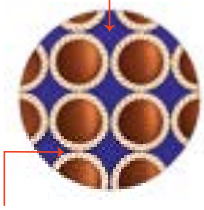
6V to 440V with +/- 20% variation handling capability

ENVIRONMENT PROTECTION:

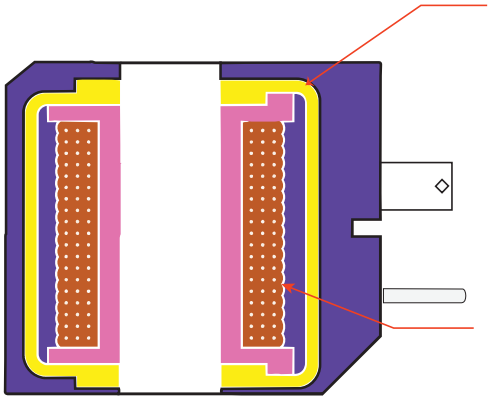
IP54 to IP68 & even IP6K9K
and Ex d, Ex ia, Ex mb

Design Feature of ROTEX Solenoid.

Void space between winding wire filled with Epoxy for better heat transfer, thereby lower temperature rise



Appropriate selection of thickness and insulation of winding wire for long life.



'O' Shape core for efficient magnetic linkage

- Low pulling force

More winding for

- Lower temperature rise
- Better insulation life

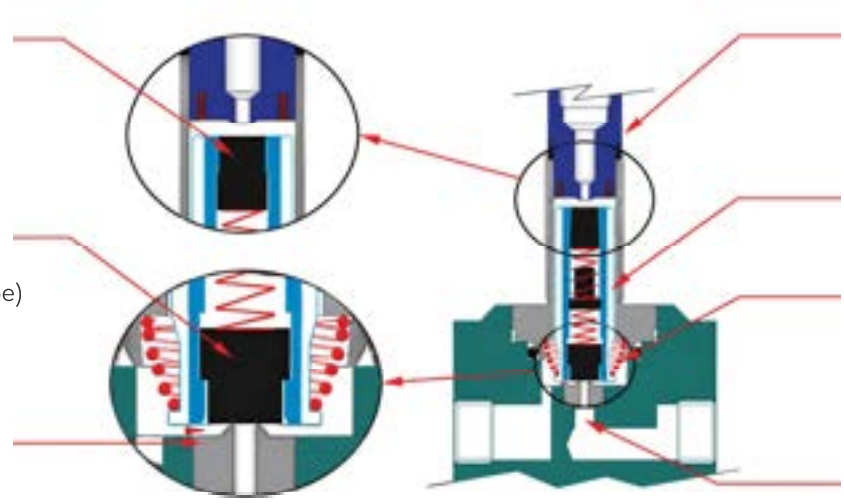
- LED Option with Exd & Ex ia Solenoids
- No Cooling period required for Exd Solenoids
- Bottom Cable Entry for all weather protection

Design Feature of ROTEX Operator/Plunger

Floating Seat for longer seal life

Low Sliding Gap (Low Gap between Plunger and Core tube)

Profiled shaped Nozzle for Longer seat life



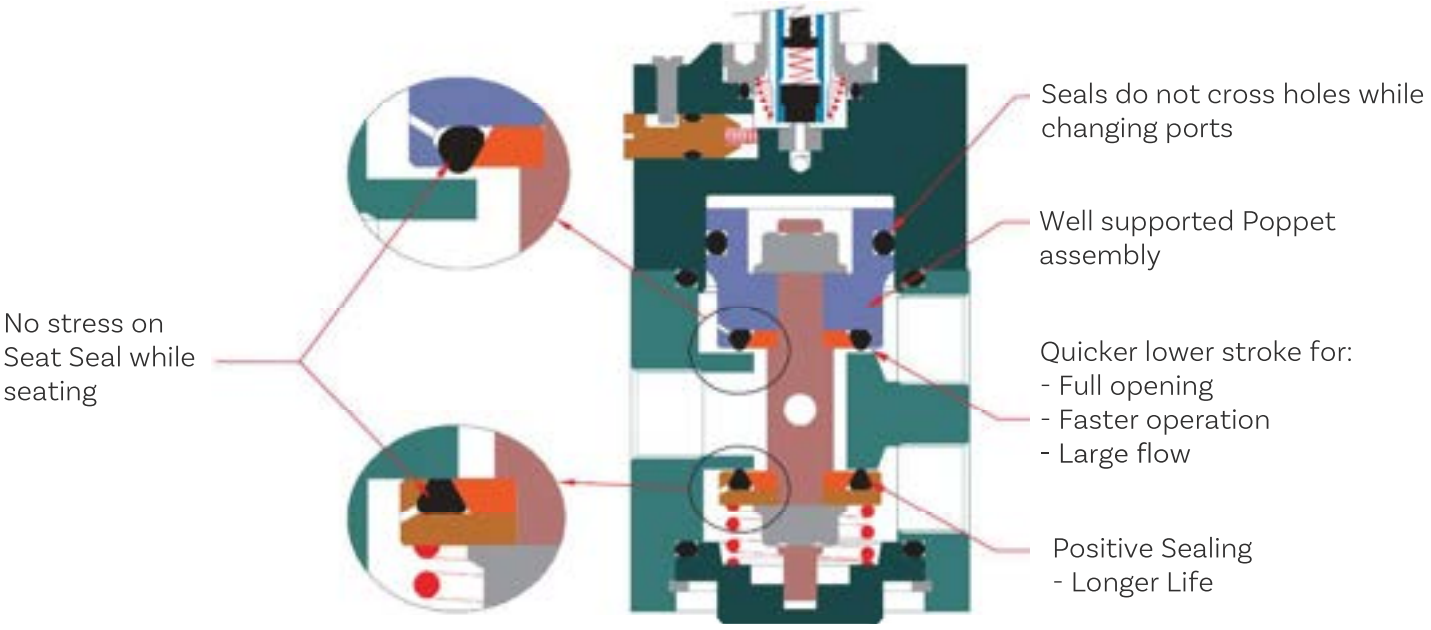
Efficient operator offering excellent Power to Cv relation

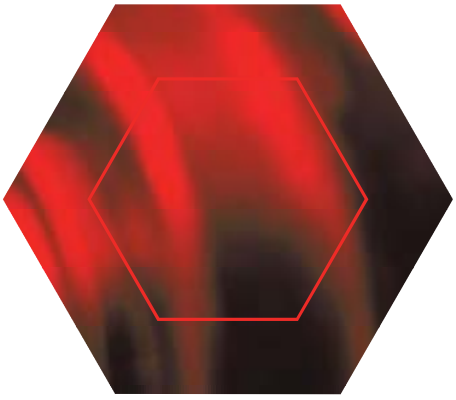
SS 430 Plated Plunger for higher corrosion resistance

Self aligning Spring

- Larger hole for higher flow factor

Design Feature of ROTEX Poppet Technology.





SOLENOID ENCLOSURE OPTIONS

HORIZONTAL CABLE ENTRY
ALUMINIUM CAST ENCLOSURE
WEATHER PROOF
EXPLOSION PROOF



MULTI PIN CONNECTOR
STEEL ENCLOSURE
WEATHER PROOF



HORIZONTAL CABLE ENTRY
ALUMINIUM CAST ENCLOSURE
EXPLOSION PROOF



DIN PLUG CONNECTOR
MOULDED ENCLOSURE
WEATHER PROOF





BOTTOM CABLE ENTRY
ALUMINIUM CAST ENCLOSURE
WEATHER PROOF
EXPLOSION PROOF



DIN PLUG CONNECTOR
STEEL ENCLOSURE
WEATHER PROOF
EXPLOSION PROOF



BOTTOM CABLE ENTRY
STAINLESS STEEL CAST ENCLOSURE
WEATHER PROOF
EXPLOSION PROOF



Interchangeable across
Voltage/ Current range without
affecting performance of the Valve

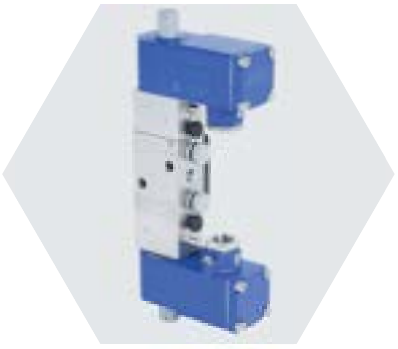
THE SPECTRUM OF FLUID CONTROL

The industry's widest range, built for any challenge.





Modern infrastructure is complex. A single plant requires thousands of distinct control interactions. Rotex has spent decades curating a portfolio that covers this entire spectrum. We offer the capacity to solve every flow challenge from a single source.



Whether you require 400 bar (5800 psi) pneumatic pressure to 690 bar (10000 bar) of hydraulic pressure, or vacuum for a dental chair, or an ultra-low power 0.4 W Solenoid Valve for energy sensitive applications or high flow applications up to a 4 inch port connection for dust suppression system or a Redundant solutions with diagnostic & online maintenance for highly critical safety shutdown systems, our range bridges the gap between mechanical reliability and digital intelligence.



SOLENOID VALVE

2 WAY SOLENOID VALVE

- Direct acting – NC / NO / Bi-directional
- Diaphragm operated – NC / NO
- Isolated piston / diaphragm operated – NC / NO / Bi-directional
- Pressure up to 400 bar (5800 psi) & orifice up to 100 mm (4 inch)
- External pilot operated solenoid valve



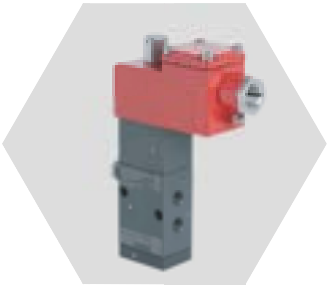
3 WAY SOLENOID VALVE

- Direct acting – NC / NO / Universal
- Internal / external pilot operated – NC / NO / Universal valve
- Pressure up to 150 bar (2175 psi) & orifice up to 50 mm (2 inch)
- External pilot operated solenoid valve
- NAMUR & subbase mount solenoid valves



4 WAY / 5 PORT SOLENOID VALVE

- Single / double solenoid valve
- Pressure up to 40 bar (580 psi) & orifice up to 50 mm (2 inch)
- NAMUR 3/2 - 5/2 convertible & subbase mount solenoid valves
- Air operated / air return valve
- External pilot operated solenoid valve



ENGINEERED VALVE

- Redundant control system – 1oo2, 2oo2 & 2oo3
- Manual reset ON/OFF solenoid valve
- Tamper proof manual reset ON valve
- Valve with latch solenoid
- Valve with ultra low power (0.2 W) solenoid
- Explosion proof & intrinsically safe solenoid valves



SPECIAL VALVES, ACTUATORS & POSITIONERS

ANGLE SEATED VALVE



- Pressure up to 25 bar (360 psi) & orifice up to 80 mm (3 inch)
- End connection: threaded, flanged, weld neck, tri-clamp type
- ON/OFF or proportionate application
- Media temperature up to 220 °C (428 °F)

PULSE JET VALVE



- Orifice up to 80 mm (3 inch)
- Pressure up to 16 bar (230 psi)
- End connections: threaded, tank mounted, quick coupling
- Remote pilot operated pulse valve
- Diaphragm less piston operated pulse valve

ELECTRO HYDRAULIC ACTUATOR



- Fully self-contained design with a single integrated hydraulic block
- Linear ESD speed <1 sec for 50 mm, Rotary ESD speed <1 sec
- rotary actuator torque up to 1,600,000 Nm, linear actuator thrust up to 8,000 kN
- Compatible protocols: HART, Modbus, Profibus DP, Ethernet, etc
- ESD/ BDV/ HIPPS/ ICSS/ SIS/ On/OFF System, IP66/IP68

POSITIONERS



- Convertible from direct acting to reverse acting
- IP 66 protection, CE certified
- Quick and ultra-precise response of the torque motor
- Easy and precise calibration with wide range of zero and span adjustment
- Vibration resistant, Stable, fast and accurate response

HEAVY _DUTY PROCESS CONTROL

BUILT FOR THE EXTREME

Engineering resilience for critical industries.

The world Rotex sees runs on the extreme. From the volatile pressures of a deep-sea extraction to the sterile precision of a pharmaceutical cleanroom, our critical infrastructure operates in environments where failure is catastrophic.

Rotex is the universal variable in these equations of risk. We look beyond the spec sheet to engineer mastery over their specific physics. We control the combustibility of hydrogen, the kinetic force of heavy rail, and the purity of life-saving medicine. When the stakes are absolute, industry turns to Rotex.





CHEMICAL & PHARMA

High reliability product
for harsh chemical environment

Chemical plants have corrosive and aggressive environments. Such plants need products that are not only reliable but also capable of withstanding such abuse. ROTEX manufactured valves are specially designed to function smoothly in such an environment and withstand the effects of highly corrosive chemicals.



Challenges met by ROTEX

- SIL 3 certified product for reliable functionality
- Solenoid valves to work under sticky environmental conditions
- Corrosive atmosphere solution with stainless steel material of construction
- Low power (0.2 W, Ex ia) solution to meet industry demand



OIL & GAS

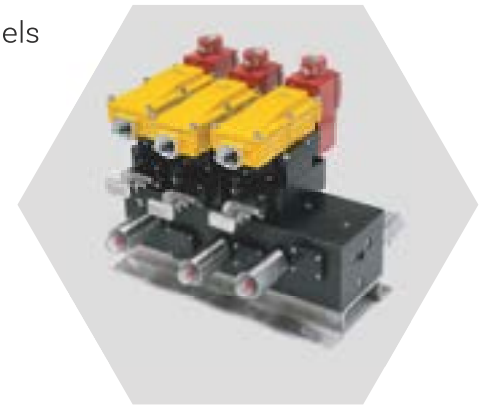
Low power & redundant solution
for critical operation

Solenoid valves used in oil refineries, petrochemical plants and natural g as distribution are critical for on demand operations and handling hazardous flammable environmental conditions. ROTEX offers highly reliable SIL3 rated flame proof solenoid valves ensuring highest safety and maximum uptime.



Challenges met by ROTEX

- Redundant SIL3 certified solenoid valve block with diagnostic & online maintenance for critical applications
- Solenoid valves upto 690 bar (10000 psi) for well head panels
- High Pulsating solenoid valve for gasification application
- Solenoid with feedback for turbine trip application
- Explosion proof or Intrinsically Safe solenoid valves for various critical pneumatic actuations







CEMENT

Consistent performance
in dusty environment

Consistent performance and efficient operations are vital for cement plants especially in the dusty environment. ROTEX offers a specially designed range of solenoid valves and pneumatic solutions. Rotex solenoid valves are well know for it's longer life, consistent performance in dusty environment and energy efficiency in cement industrial set ups of pneumatic and solenoid valves. ROTEX meets the requirement of long life and consistent performance for the cement industry.



Challenges met by ROTEX

- Pulse valve with Hytrel diaphragm for high cyclic demand
- Quick opening and closing, using optimal air and power / pulse for effective bag filter cleaning
- Three and five port poppet solenoid valves suitable for dusty environment
- Diaphragm less piston operated pulse valve foe demanding high pulsating bag filter application.
- Quick response high orifice air blaster solenoid valves enabling clear silos/hoppers/chutes.



AUTOMOTIVE

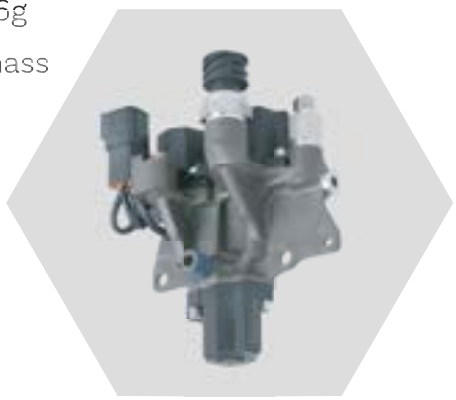
High performance automotive valves
for off road & on road vehicles

ROTEX has successfully designed and manufactured many solutions for the automotive segment for applications like DPF regeneration systems, exhaust brakes, fuel shut off, transmission system, tipping applications, HVAC, differential locking and many more. ROTEX manufacturing plants have passed audits of many German customers as per VDA 6.3 eg Daimler, Knorr, ZF(Wabco), Volkswagen etc



Challenges met by ROTEX

- IP6K9K solenoid to withstand 100 bar (1450 psi) water pressure jet and high velocity sand abrasion
- Component designed to withstand extreme vibrations up to 56g
- Leak rates as low as 1 mm/sec of H2N2 at 10 bar (145 psi) for mass production run
- Less than 50 PPM quality performance







FERTILIZER

Corrosion resistant
solenoid valves

The fertilizer industry demands robust, technologically advanced solutions capable of delivering dependable performance in mission-critical operations while withstanding harsh, hazardous, and highly corrosive environments.
ROTEX manufactures specially designed products using a combination of alloys and elastomer that can deliver reliable performance in such severe conditions



Challenges met by ROTEX

- Corrosion resistant solenoid valves for severe application
- Redundant control system with 1oo2, 2oo2, 2oo3
- SIL 3 certified product for critical application
- Solenoid valves for ammonia environment



POWER – THERMAL

Valves for dusty and
high temperature environment

Thermal power plants require valves that can sustain high levels of extreme temperature and pressure in dusty environment. At ROTEX, solenoid valves are designed and engineered with the objective of sustaining the most adverse conditions and deliver most critical performance.



Challenges met by ROTEX

- Dust tolerant rugged poppet solenoid valve
- Latching Solenoid Valves to handle stay put on power failure and air failure applications
- Solenoid valves for boiler applications
- Solenoid valves for turbine trip application
- Valves for ash and coal handling, dust suppression and water treatment







MINES & METAL

Solenoid valves for
high temperature application

In the Mines & Metal industry maximum system availability and safety is of utmost importance. ROTEX valves are manufactured from high quality materials, which have been tried and tested to withstand the extreme environmental challenges posed by the Mines & Metal industry.



Challenges met by ROTEX

- Special valve block for operating cylinder – crest cracking of molten aluminium
- High orifice valve for operating air motor of copper smelter
- Valves for blast furnace
- Pulse jet valves for steel plants



POWER – NUCLEAR

Next gen valve for ultra critical
and mission safe application

The biggest apprehension for any nuclear power industry is safety. At ROTEX, we understand the criticality and manufacture high quality and reliable safety solenoid valves. Our products are designed to work even under extraordinary conditions like, high temperatures and radiation-prone environment.

Challenges met by ROTEX

- Direct acting solenoid valve 80 NB, for helium at 0-120 bar (0-1740 psi), response OFF < 100 mS
- 4/2 solenoid valve for water at 100 bar (1450 psi)
- Solenoid with special epoxy potting for withstanding gamma radiation
- DNM Solenoid valve with working temperature of 350 deg C
- Specially designed products to meet seismic qualification and service life of 30 years







MEDICAL

High responsive valves
with high reliability

The medical industry requires reliable and highly responsive pneumatic components, with extremely low leak rate and high cyclic life. Also these valves are cleanliness critical thus needing a isolated plunger design in many of its applications.ROTEX offers solenoid valves which can be used to control the flow, direction and pressure of gases or fluid in medical devices.



Challenge

- Portable gas delivery system
- Dialysis machine
- Dental chairs
- Oxygen generator



RAILWAYS

Valves designed to withstand
high vibration and voltage variation

The rail transport industry calls for products which are extremely reliable, even under the most demanding environmental conditions. Extreme weather phenomena, high levels of vibration, the presence of dust and aggressive contamination, and huge voltage variation are common factors under which a product needs to perform.



ROTEX SOLUTIONS

- Valves for braking application
- Solenoid valve for Pantograph application
- Valves for warning horn
- Fire fighting valves for rolling stock
- Fail-safe braking with emergency and parking solenoid valves.
- Automatic Door Applications
- EP Contractor and Sanding Solenoid Valves







Connect with our technical experts today.

Whether you are designing a new plant, upgrading a legacy line, or solving a specific control challenge, our engineering team is ready to engage.

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ROTEX

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