

Introduction

Rotex was founded by Late Mr. Jitendra G Shah in 1967 at modest manufacturing set up near Mumbai, India that was involved in manufacturing of textile machinery. His passion for technology eventually made him observe that all industries rely on power of the fluids like air, gases, water, fuels and oils etc. to control their processes and operations. It was all about how efficiently you could control and utilize the power of these fluids. This motivated his entrepreneurship to venture into the industry that is involved in efficient control of fluids. He decided set up a business that was involved in designing and manufacturing solenoid valves. Today Rotex not just pioneers Solenoid valve technology in India but is also a market leader serving to specialized needs of Industrial segment, Railways, Aerospace, Defense & Nuclear Power and Automotive sectors. Here we stand today with our motto to offer "Engineering For the Future"



To the automotive world we offer solutions that help increase efficiency, eliminates waste, reduces pollution and improvise safety and comfort. Our product line includes several solutions for Powertrain, After-treatment systems, Tipping, Air suspension and Thermal management systems in all kind of vehicles.

Customer needs are centric to everything that we do at Rotex and our customer benefit from our collaborative approach. Several decades of application engineering knowhow, our spirit of innovation and our collaborative work with customers for all aspects of development and supply are another reasons that our customer look up to us repeatedly

Technical Capability

Media Capability: All Automotive fluids (Air, Fuel, Coolant, Adblue, Oil, Water, Exhaust gases)

Ingress Protection: up to IP6K9K

Vibrations: up to 20G

Mechanical Shocks: up to 52G

Operating Pressure: Vacuum to 400 bar

Leak Tightness

Leak rate: < 1 mm3/sec of H2 @ 10bar

Cleanliness Level: Class A as per ISO 16232

Thermal Range -40°C to 125°C

Valve Operation & Control ON/OFF Type or PWM Control

R&D Set up

Team of 20 qualified engineers for designing and simulation activities

Softwares 2D: SolidWorks 3D SolidWorks CAE: ANSYS

Simulation: CFD, Mechanical,

Electromagnetic field

Built to Concept Built to Specification Built to Print

Customized proprietary software for O-ring selection, Spring design and No. of Copper turns in Solenoids

More than 6000 types of valves development and have registered 12 Patents

Extensive set up for quick prototyping and validation lab

Validation Lab

Thermal Cycling Thermal Shocks Humidity chambers Life Cycle Monitoring

Flow testing Response time checks Helium Leak testing

Burst test Ingress Test Salt spray test



Manufacturing set up

State of the Art Solenoid Winding facility with close loop feedback for No. of Turns and tension of wires

Vertical Moulding of solenoid and optional Epoxy Potting

Clean Room set up complimented with High pressure /Ultrasonic washing and Millipore lab

Semi automated Assembly lines extensively error proofed with use of feedback torque guns, vision sensors, auto rotating and locking fixture ensuring 100% correct process

Fully automated – End-Of Line testing. End to end traceability

Integrated Management System

QMS: AS 9100 D / IATF 16949 / EMS: ISO 14001: 2015 / Safety: OHSAS 18001: 2007



























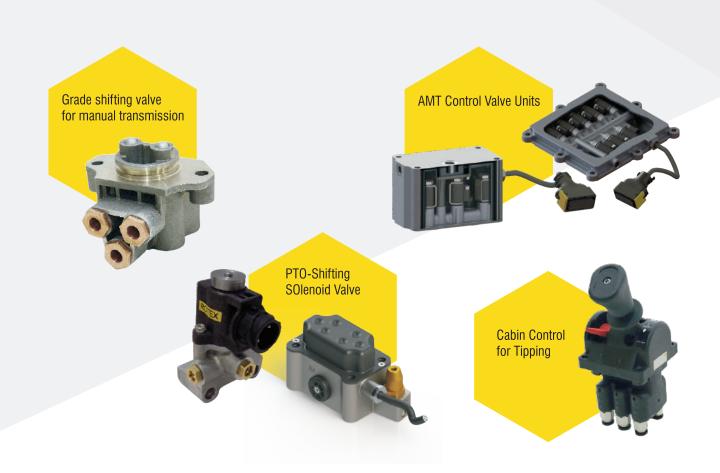


Emission After treatment System



Tipping and Transmission





Engine and Fuel System













Thermal Management / HVAC







Suspension / Air management





Rotex Automation Limited:

987/11 GIDC Makarpura, Vadodara - 390 010, Gujrat, INDIA. +91 265 6174100 | rotexauto@rotexautomation.com | www.rotexautomation.com