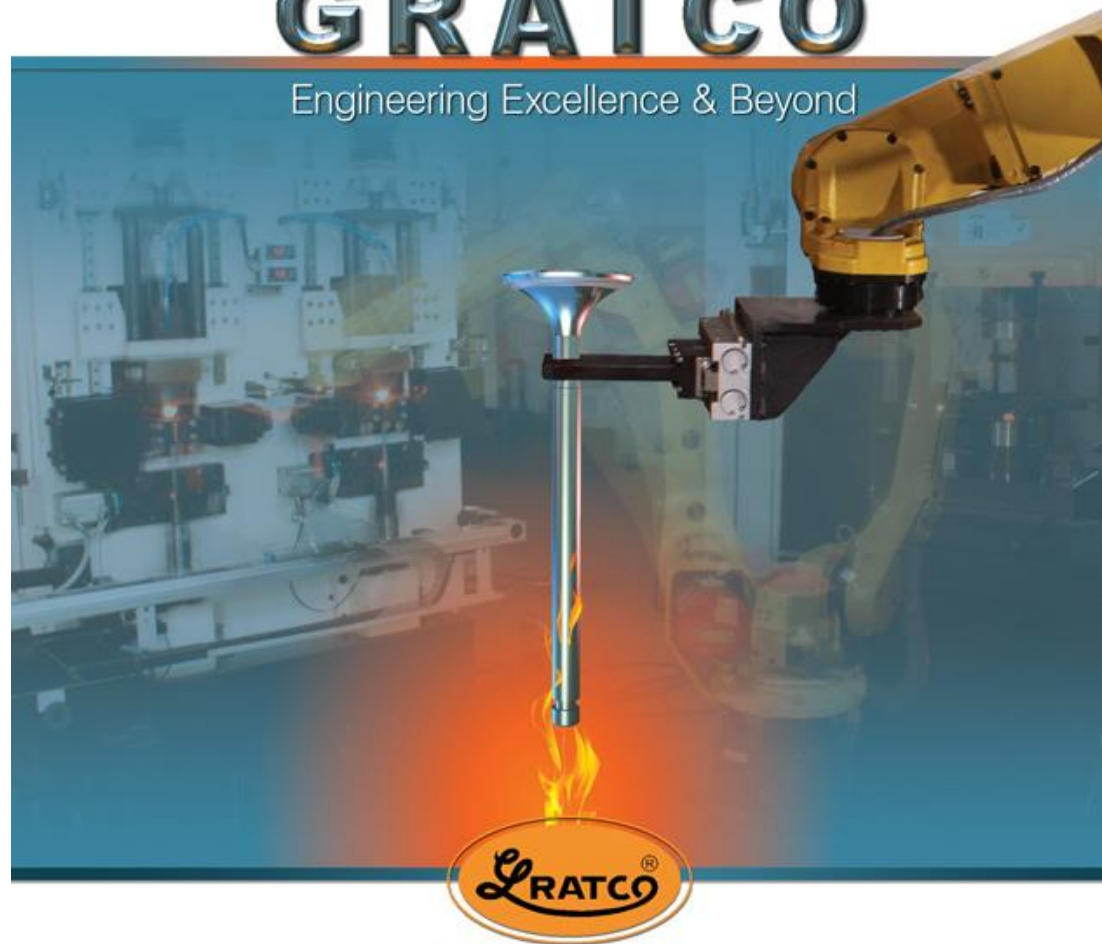


# GRATCO

Engineering Excellence & Beyond



**GRATCO VALVES**

Inlet Exhaust Valves

## GROWTH

**SINCE 1988**

First Robot & automation production line established

International OEM business started

Unit-2 at Chhatral started

TS Certification

Export Business started

ISO Certification

OEM business started

First CNC Machine in the company

Foundation of Company

2015

2010

2009

2005

2002

2001

1995




1994

1988

Since its inception in 1988, the company is backed by a management team dedicated to customer satisfaction and progress through reliability. Automotive Valves is the preferred supplier to reputed Original Equipment Manufacturers (OEMs). One of the oldest companies dealing in valves, the company's products have been and continue to be the choice of numerous customers across the globe.

## PRODUCTS & RANGE

Our aim is to provide better products & services as per the needs of customers and to their entire satisfaction. Continuous improvement in product, processes, systems, sales & services is our organization's firm determination & commitment.

Pattern Hardened	Multigroove	Chrome Plated	Nitrided	Bimetal	Seat Hard Faced	Tip Welded/ Button Welded
						

The size-wise ranges are as under :

<b>Stem Dia:</b>	From 4.50 mm to 13.00 mm
<b>Head Dia:</b>	From 17.00 mm to 60.00 mm
<b>Overall Length:</b>	From 60.00 mm to 225.00 mm

Gratco Valves have gained wide acceptance in the domestic as well as the international market. Our range includes valves for Two-wheelers, Three-wheelers, Cars, Jeeps, Tractors, Trucks, Commercial Vehicles, Marine Engines and Stationary Engines.



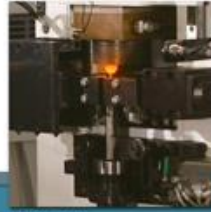
# PRODUCTION

The Valves produced by us meet international standards and follow OEM specifications or customer specifications as applicable.

Quality is maintained right from assortment of raw material to final packing and rendering. Our Quality Control system ensures that impeccable standards are maintained right through the production process to manufacture defect-free products.



FRICTION WELDING



UPSETTING



DIE FORGING



HEAT TREATMENT



HARD FACING ALLOY DEPOSITION



HEAD DIA. TURNING



NECK PROFILE TURNING



GROOVING



TIP HARDENING



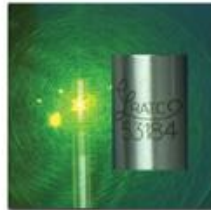
SEAT HARDENING



STEM GRINDING



SEAT GRINDING



LASER MARKING WITH CODE



FINAL PACKING

- Automation unit provides full advantage of intelligent solutions designed to maximize efficiency and increase output.
- Exhibits high standards of repeatable precision.

Our continuous efforts to modernize our production line enables us to optimize process time and increase productivity.





# QUALITY

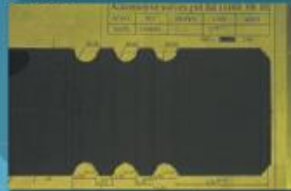
Each valve produced by us, undergoes the majority rigorous standards inspection. Hence, quality is in-built in the system to ensure total reliability of the end product.

Our processes include:

- STATISTICAL PROCESS CONTROL
- MEASUREMENT SYSTEM ANALYSIS
- 100% TRACEABILITY



MICROSTRUCTURE



PROFILE INSPECTION



PROFILE PROJECTOR

HARDEN END  
HRC-50 Min. FOR  
1.5 TO 3.0 DEEP



ROUNDNESS & CYLINDRICITY TESTING



TENSILE TESTING

HARDEN END  
HRC-50 Min. FOR  
1.5 TO 3.0 DEEP



METALLURGICAL MICROSCOPE



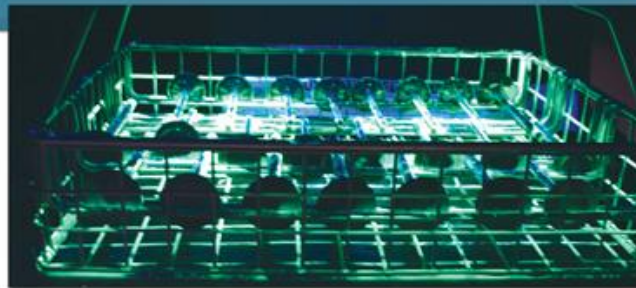
MICROVICKERS HARDNESS TESTING



CONTRACER FOR CONTOUR MEASUREMENT



MULTIGAUGING CHECK



CRACK DETECTION

The team at Automotive Valves Pvt. Ltd. consists of highly experienced and qualified technicians working with dedication to enhance quantity with quality, by adopting advanced production techniques and rigorous quality standards to make our company's products which are crucial components in an internal combustion engine.





ISO/TS 16949: 2009



USA  
MEXICO  
COLOMBIA  
GUATEMALA  
PANAMA

GERMANY  
FRANCE  
ITALY  
POLAND  
HUNGARY  
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ALGERIA  
TURKEY  
IRAN  
DUBAI  
SAUDI ARABIA,

BANGLADESH  
NEPAL  
AFGHANISTAN  
PAKISTAN,  
RUSSIA



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