

## MODIFICATION & CONVERSION UPGRADATION ACTIVITIES

Due to change in operating process parameters, fire or explosion hazards, updating of plant instrumentation, it is often necessary to convert valve from existing type to another type. R-tork Controls has design skill, material, staff & experience to confidently undertake work modification and conversion like-

Change of Cv value

Change in flow Characteristics.

Change of valve action from air to open / close or vice a versa .

Change of MOC of trim set from one metal to another.

Conversion of pressure balanced trim to unbalanced trim or vice a versa.

Conversion of manual valve to pneumatic / electrically operated .

Conversion of on-off valve to control duty valve.

Change of actuators to meet the warranted  $\Delta P$  conditions.

Change in Leakage Class.

## VALVE TESTING

R-tork Controls a well known valve servicing division is fully equipped with all the modern valve testing facilities. The thorough testing of control valve is crucial, if the valve is to be expected to operate reliably & maintain its designed characteristics for long periods under actual operating conditions. Hydrostatic test is carried out on all valves to ensure that it means the testing requirements against its primary pressure and temperature rating.

In addition to this, seat leakage and gland leakage testing is carried out to ensure satisfactory operation with necessary adjustments, wherever so warranted. When test is satisfactorily completed a test certificate is issued.

Finally, after testing , each valve is painted with modern, high corrosion resistance paint, specific shade for specific application as per customers request.

Visitors are welcomed to inspect the facilities and to personally witness tests taking place.



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VALVE MAINTENANCE,  
MANUFACTURING, REMANUFACTURING & REPAIR SERVICES



Your Partner for  
**Technical Solutions**







## INTRODUCTION

R-tork was promoted by the technocrats having collective experience of over four decades in CONTROL VALVE TECHNOLOGY, established in 2012. The company is engaged in Design, Development and Manufacture of a comprehensive range of Control Valves for all Process, Power generation and associated industries. Standard, Special and Customised Control Valves & Automated on-off valves are all available on demand for use in a wide range of applications and industries.

Today modern plant and processes demand control valves which have to be virtually failure proof and maintain optimum performance, whilst working under most adverse Operating conditions. Instrument engineers have to admit that control valve maintenance shall be better handled by specialists having thorough understanding of the fundamentals, specifications, standards, construction and operation of control valves.

In recognition of this fact, R-tork Controls has organized most advance, most capable control service centre, which is fully equipped with an integrated servicing package maintaining close control over all functional and aesthetic requirement in particular to design and stock control to react quickly to meet plant emergencies.

R-tork Service center is staffed by factory trained experts who apply advanced control valve manufacturing technology to the maintenance function. The service center gives total maintenance services { TMS } for control valve of any size / any type / any age / any make. Total Maintenance services for control valve includes

- REPAIR AND RETROFIT
- PARTS REPLACEMENT
- FIELD SERVICE
- MODIFICATION AND CONVERSION
- TECHNICAL SERVICE
- QUALITY AND INSPECTION
- WARRANTY AND GUARANTEE



THE COMPANY IS CONFIDENT IN ITS RESOURCES SETTING THE PACE IN VALVE TECHNOLOGY

## REPAIR & RETROFIT

Disassembly, inspection, evolution of complete valve, actuator. Cleaning of valve parts and its suitability for further use or its replacement or modification to upgrade the performance.

Skin machining on plug and seat contact, lapping and establishing perfect seating contact.

Reconditioning of plug, seat, cage by depositing tough metal / stellite hard facing. If so warranted.

Replacement of gland packing, gaskets and seal rings.

Re-assembly of valve body, mounting of actuators, travel checking, actuators bench set checking etc.

Hydrostatic and seat leakage Test and inspection of valves w.r.t prevailing latest standards. (ANSI B16-104)

Functional Test on gland, joint and final calibration with valve positioner.

Scrutinizing cause of valve failure and providing client with expert recommendation for eliminating the cause / reoccurrence.

Preparation and submission of Test Certificates.

## PARTS REPLACEMENT

### SUPPLY OF SPARES AND ACCESSORIES

R-tork in depth knowledge in the field of valve and actuator design provides ability to supply compatible spare parts for wide range of valves. With minimum of information or by examination of damaged parts, R-tork is able to supply the parts of equal quality to those provided by original suppliers, often at comparatively lower cost and with quicker delivery.

This sort of service has proved to be of great interest to many major valve using companies as a means to obsolete parts. All parts are provided with full certification and manufactured to QA/QC standards and are covered by a full guarantee. On many occasions after carefully inspecting the damaged part, alternative materials or design modification are suggested to enhance the valve performance.

R-tork also supply and fix the accessories like Valve Positioner, I/P Converter, Air Filter Pressure Regulator, volume Booster, Limit switches, Air Lock Relay, Proximity Switches, Handwheel Units (TMH/ SMH) etc.

## FIELD SERVICE

R-tork Controls has a team of experienced field engineers/technocrats able to carry out either the entire valve/ actuator/service requirement or provide the necessary support for your plant maintenance engineers on major/minor shutdown.

A portable mobile facility for overhauling, skin machining, testing, re-calibration and valve instrumentation activities to carry out the shut down within time frame is available and can be provided where necessary.

R-tork Controls technicians / engineering staff are highly trained and widely experienced to face challenge of present day process control situation. After execution of shutdown activities our skeleton team of highly skilled technocrats remains at the site till commissioning of plant.

## QUALITY & GUARANTEE

R-tork Controls operate a quality system. Certification is available for all tests carried out and materials used in manufacture or repair.

## WARRANTY & GUARANTEE

R-tork Controls offer full guarantee and warranty against faulty workmanship or materials equivalent to those offered by many original valve manufacturers.

