CUSTOMIZED VALVE AUTOMATION HARDWARE

VALVE TO ACTUATOR MOUNTIGN KITS, LIMIT SWITCH AND ACCESSORY KITS, VALVE EXTENSIONS, LOCK-OUT KITS, 3-WAY TEE AND TANDEM LINKAGES

ANYTHING’S POSSIBLE... JUST ASK!
WWW.BITORQ.COM
For the past three decades, BI-TORQ Valve Automation has engineered complete bracket, coupler and mounting hardware assemblies to mount any ball, butterfly, plug, gate or damper valve to any make or model of actuator. Our wide range of AutoCad® engineered drawings ensures that we can link virtually any automated valve assembly, whether the valve has been in line for 20 years or needs to be installed by the end of the week. Carbon steel, stainless steel and epoxy-coated options are available for most mounting kits. We also offer a full range of mounting kits for limit switches and positioners to actuators or manual valves.

**CUSTOMIZED BROACHING**

special broaches, drive bushings for Rotork, EIM, Limitorque, AUMA, Mastergear and more!

**CUSTOMIZED VALVE TO ACTUATOR MOUNTING KITS**

OVER 30,000 CATALOGED DRAWINGS ON OUR AUTOCAD® SYSTEM FOR ALL MAJOR VALVE AND ACTUATOR MANUFACTURERS

- VALVES TO ACTUATORS
- VALVES TO GEARS AND DECLUTCHABLE MANUAL OVERRIDES
- ACTUATORS TO SWITCHES & POSITIONERS
- TANDEM LINKAGES
- AND MUCH, MUCH MORE

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**MANUAL AND AUTOMATED LOCK-OUT KITS**

**FOR MANUAL VALVES**

Simplicity is the key to our pipe mount lockout kit. By utilizing common features on all ball valves, the pipe mount lockout adapts to all makes of bar stock, cast and three-piece valves to create a tamper-proof manual valve assembly. In addition, we offer a wide range of other manual valve handle options, including chain wheels, overhead lever handles, tee-bars, kits to mount limit switches to manual valves and heat extensions to protect the valve operator.

**FOR AUTOMATED VALVES**

Our automated design offers the perfect solution for locking devices on automated valves requiring safety during maintenance operations or protection for critical system valves. The lockout system is designed as an integral part of the mounting kit and is available for both the “locked open” and “locked close” positions. The lockout pin is attached to the bracket with a keeper chain and can be stowed in a pin storage tube.
BI-TORQ manufactures a wide range of customized mounting kits for:

**PNEUMATIC POSITIONERS TO PNEUMATIC ACTUATORS**
- both NAMUR and non-NAMUR styles

**LIMIT SWITCHES TO PNEUMATIC ACTUATORS**
- both NAMUR and non-NAMUR styles

**LIMIT SWITCHES TO MANUAL VALVES**
- custom designed for butterfly & ball valves to a switch

**ACCESSORIES**
- custom designed for automation accessories

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**STEM EXTENSIONS**
Our customized stem extensions are designed for use inside tanks, coffer dams, tank sides or catwalks where the valve handwheel, gear operator or actuator must be extended for operator accessibility. A mounting bracket complete with thrust bearing is furnished to carry the weight of the extension and eliminate load on the valve stem. Most extensions over three feet are supplied with universal couplings to ensure smooth operation. One additional mounting bracket is provided at the top of the extension for the operator plus one stabilizing bracket per six feet of extension.

**BURIED SERVICE EXTENSIONS**
These extensions are designed specifically for buried or submerged service lines. These extensions are furnished complete so they are ready for field installation to pneumatic, electric, hydraulic or gear operators. Our extensions are fitted with thrust support bearings to carry the full weight load of the extension shaft, eliminating load on the valve stem. Top alignment bearings eliminate side load on the valve or actuator and simplify installation. The extension shaft is enclosed completely in a steel outer torque tube housing.

**OTHER EXTENSIONS**
BI-TORQ’S customization capabilities allow us to create extension types for valves with 2” nuts or for those requiring handwheel or motorized floorstands. If an operator of any type isn’t in an ideal location, reach out to us and we can work with you to come up with a solution.
The use of butterfly valve tee linkages provides an economic alternative to larger sized three-way ball valves. By incorporating a flanged tee, our specialized linkage arms and mounting kits, our engineers can design a master-slave arrangement so that only one actuator operates two valves. BI-TORQ tee linkages are adjustable and use high quality rod end spherical bearings to ensure smooth, reliable operation. We also offer a complete mounting and testing service with your choice of valves and actuators, or we can provide an entire package including our own butterfly valves and actuators.

**FEATURES**
- Economic 3-way valve solution
- Ideal for mixing applications
- Variety of arrangements
- Adjustable linkages
- Complete packages including valves, actuators, tees and flange packs
- Customizable assemblies
- Full service factory assembly & testing

**CUSTOMIZATION OPTIONS**
- Tee materials
- Actuator type
- Different sized valves
- Valve operator extensions
- Customer-supplied valves

**TANDEM LINKAGES**
Expert design and machining capabilities allow BI-TORQ to be at the forefront when it comes to innovative valve assemblies. Our tandem linkages allow a single actuator, gear or handle operator to turn multiple valves at once. Our tandem linkages can be designed to fit a variety of pipeline arrangements, if you have a unique application like this in mind, please contact us for a prototype.

**ANYTHING’S POSSIBLE… JUST ASK!**