



# IMAGINE

A WORLD OF POSSIBILITIES

THE BEST KEPT SECRET IN CRITICAL  
SERVICE ACTUATION SYSTEMS

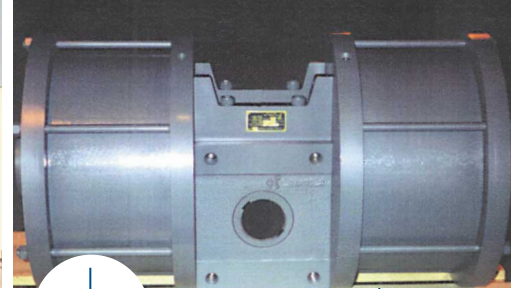
***FLO-TORK***,<sup>®</sup> INC.

THE BEST KEPT SECRET  
WITH SPECIALIZED  
VALVE AUTOMATION

F L O - T O R K



LARGE PNEUMATIC ACTUATORS



HIGH CYCLE PNEUMATIC ACTUATOR

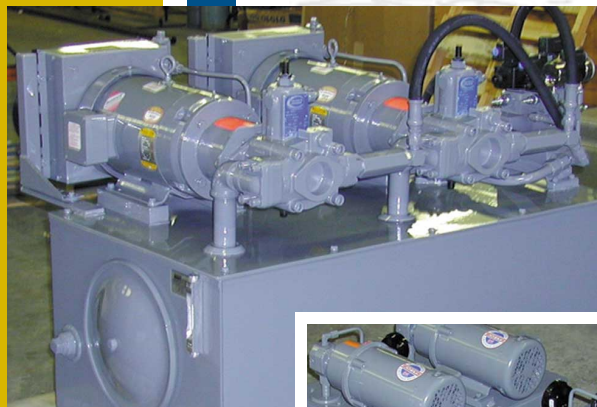


SLURRY VALVE ACTUATORS

### "NATURAL SYSTEMS"

A "Natural System" includes the power supply, pump, controls, enclosures and mounting hardware required to provide you with a complete self-standing system to meet your valve automation requirements. Flo-Tork can design and build a complete system—direct gas, gas over oil, electro-hydraulic, electro-pneumatic—for various pressures and temperature installations to meet your needs.

If a power source is your problem Flo-Torks' capabilities include the supply of solar systems to meet these needs.



HYDRAULIC POWER SYSTEMS

## IMAGINE A WORLD WHERE YOUR CRITICAL SERVICE ACTUATION PROBLEMS ARE SOLVED.

### IMAGINE:

YOU GIVE YOUR CRITICAL SERVICE APPLICATION PROBLEMS TO AN ACTUATOR MANUFACTURER WHO TRULY LISTENS, ANALYZES THE INFORMATION, AND THEN PROVIDES THE CORRECT SOLUTION. THEY DO IT RIGHT THE FIRST TIME AND AT A REASONABLE COST. A SOLUTION THAT INCREASES YOUR SYSTEM UP-TIME AND REDUCES MAINTENANCE COST. A DOUBLE SAVINGS TO YOU!

### THIS DOES HAPPEN.

IN THIS WORLD OF INCREASED PRESSURE TO PERFORM WITH REDUCED STAFFING LEVELS, HIGH PRODUCTION REQUIREMENTS, AND LIMITED MAINTENANCE TIME, WOULDN'T IT BE NICE TO BE ABLE TO PURCHASE A COMPLETE SYSTEM OPTIMIZED TO YOUR MOTION/FLOW CONTROL REQUIREMENTS?

FLO-TORK, INC. OFFERS YOU THIS CAPABILITY. WE HAVE BEEN DESIGNING MOTION CONTROL SOLUTIONS FOR A MULTITUDE OF INDUSTRIES FOR OVER 45 YEARS. FLO-TORK LISTENS, ANALYZES YOUR INFORMATION AND PROVIDES YOU WITH ROTARY OR LINEAR ACTUATORS INCLUDING COMPLETE "NATURAL SYSTEM" PACKAGES WHICH SOLVE YOUR APPLICATION PROBLEMS.

CALL US AND LET US PUT OUR DESIGN CAPABILITIES TO WORK FOR YOU.

IMAGINE BEING ABLE TO TURN THE PROBLEM OVER TO A SINGLE SOURCE. WHEN YOU KNOW YOUR PROBLEM IS UNDERSTOOD AND THE SOLUTION IS RIGHT, YOU CAN MOVE ON TO THE NEXT.....



SPRING RETURN DIVERTER VALVE



CUSTOM HYDRAULIC



AIR SEPARATION PLANT ACTUATORS

## DID YOU KNOW

### OFFSHORE DRILLING RIGS

SPRING RETURN HYDRAULIC ACTUATORS ARE USED FOR DIVERTER VALVE APPLICATIONS ON OFFSHORE DRILLING RIGS. THE ACTUATORS PRODUCE 18,000 LB-IN SPRING ENDING TORQUE, 58,000 LB-IN HYDRAULIC TORQUE AND ARE RATED AT 3000 PSI OPERATING PRESSURE.

### PETROCHEMICAL PLANTS

LARGE FAST CLOSING PNEUMATIC ACTUATORS ARE USED FOR ALL BALL VALVE APPLICATIONS UP TO 20 INCH IN HDPE PLANTS. THE ACTUATORS PRODUCE 58,000 LB-IN TORQUE @ 50 PSI AND 90 DEGREE ROTATION IN 1 SECOND. THE GUARANTEED CYCLE LIFE IS 2,000,000 CYCLES.

### AIR SEPARATION PLANTS

EXTENDED CYCLE LIFE ACTUATORS ARE USED FOR BVF APPLICATIONS UP TO 36 INCH IN AIR SEPARATION PLANTS. THE ACTUATORS HAVE PROVIDED OVER 5,000,000 CYCLES OF CONTINUOUS SERVICE RESULTING IN LOWER OPERATING COSTS AND INCREASED PROFITS. THE ACTUATORS ACHIEVE 90 DEGREE ROTATION IN LESS THAN 1 SECOND. SPECIAL CUSHIONS FOR END OF STROKE DECELERATION ARE USED TO REDUCE SHOCK TO THE ACTUATOR AND VALVE INTERNAL PARTS WHICH PREVENTS PREMATURE WEAR.

### SUBSEA OPERATIONS

SUBSEA ACTUATORS HAVE OVER 5 YEARS OF SUCCESSFUL OPERATION AT DEPTHS UP TO 10,000 FT. THE APPLICATIONS INCLUDE RISER BOOSTER BALL VALVES AND MANIPULATOR ARMS ON DEEP SEA DIVING BELLS. THE SEALED DESIGN AND SPECIAL CONSTRUCTION MATERIALS RESULT IN LOWER WEIGHT, ZERO LEAKAGE AND PROTECTION AGAINST SEA WATER CORROSION.

### GAS PROCESSING PLANTS

FIREPROOF ENCLOSED ACTUATORS ARE MOUNTED IN NATURAL GAS PROCESSING PLANTS ON INLET BALL VALVES UP TO 30 INCH. THE ACTUATORS PRODUCE 1,440,000 LB-IN TORQUE AND HAVE A HYDRAULIC PRESSURE RATING OF 3000 PSI.

## WHEN YOU NEED...

- TECHNOLOGY AND FLEXIBILITY OF DESIGN
- QUALITY—PRIMARY SUPPLIER OF CRITICAL SERVICE ACTUATORS FOR U.S. NAVY NUCLEAR SUBMARINES
- HEAVY DUTY HYDRAULICS UP TO 3000 PSI
- HIGH TORQUE CAPABILITY UP TO 50,000,000 LB-IN
- HIGH SPEED CLOSING CYCLES
- EXTENDED CYCLE LIFE
- SPECIAL ROTATION CAPABILITY
- ZERO LEAKAGE
- HIGH MECHANICAL EFFICIENCY
- SPECIAL CUSHIONS AND STROKE ADJUSTERS
- MINIMUM BREAKAWAY PRESSURE
- CUSTOM SHAFTING AND MOUNTING VARIATIONS
- CUSTOM SEALING ARRANGEMENTS
- ENGINEERING SERVICES

LOOK TO FLO-TORK FOR ALL YOUR ACTUATOR SOLUTIONS, FROM STANDARD TO CUSTOM DESIGN



GAS PROCESSING PLANT FIRE PROOF ACTUATOR

## A STORY OF PROGRESS

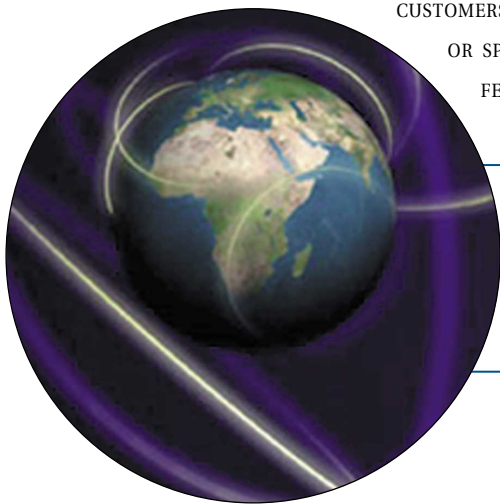
Since its beginning in 1957, FLO-TORK has been recognized for its original approaches to motion design technology and its ability to specialize in rotary actuator applications. These achievements have been made possible by a strong engineering staff that enables the company to custom design components-tailoring unique materials, tolerances and design specifications to each customer's needs.

FLO-TORK, INC. WAS FOUNDED IN 1957 BY JULIUS FEJES, A RESOURCEFUL AND TALENTED ENTREPRENEUR. THE COMPANY'S INITIAL FOCUS WAS PROVIDING HIGH RELIABILITY ACTUATOR SYSTEMS FOR CRITICAL MILITARY AND INDUSTRIAL FLUID POWER APPLICATIONS.

IN THE 1980S, FLO-TORK, INC. BEGAN APPLYING THIS EXPERTISE TO DEVELOPING ACTUATOR PRODUCTS DESIGNED FOR CRITICAL VALVE APPLICATIONS. THE COMPANY HAS CONTINUED TO EXPAND PRODUCT LINES TO MEET THE NEEDS OF AN EVER-CHANGING MARKETPLACE.

TODAY FLO-TORK OFFERS ONE OF THE BROADEST PRODUCT RANGES OF HYDRAULIC, PNEUMATIC AND ELECTRIC ACTUATORS AVAILABLE TO THE VALVE INDUSTRY.

FLO-TORK'S STRENGTH CAN BE SUMMARIZED AS ITS ABILITY TO MEET THE CUSTOMERS' NEEDS. THESE NEEDS MAY UTILIZE STANDARD PRODUCTS OR SPECIALIZED DESIGNS THAT INCORPORATE UNIQUE CONCEPTS, FEATURES AND MATERIALS THAT SOLVE THE MOST DEMANDING APPLICATION REQUIREMENTS.



FLO-TORK'S PHILOSOPHY IS: GIVE US YOUR CRITICAL SERVICE ACTUATOR SYSTEM PROBLEMS AND WE WILL SOLVE THEM!

**I M A G I N E** THE POSSIBILITIES...

## A WORLD OF POSSIBILITIES

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**FLO-TORK**, INC.