





AUTOMATED VALVE PACKAGES

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ADDITIONAL ORBIT INFORMATION

The Company and it's Products
Technical Reference Data
Dimensional Data, Valves and Actuators
Standard Instrumentation Packages
Installation and Maintenance
Parts List and Ordering Instructions



AUTOMATED VALVE PACKAGES

ORBIT CAN PROVIDE YOU WITH PERFECTLY MATCHED PACKAGES WHICH INCLUDE VALVE, ACTUATOR AND INSTRUMENTATION

ORBIT'S UNIQUE DESIGN MAKES AUTOMATION EASIER.

ORBIT valves are ideal for automation by the very nature of their operating principle. Many automated valves remain open or closed for extended periods of time. This and other environmental and process conditions can cause higher breakaway torque in valves with friction between their sealing surfaces.

The mechanical camming action of an ORBIT valve retracts the core from its seat as it opens. The core is then rotated to the open position without scraping the seat. This reduces the need for the high torque actuators found on many other valves which scrape their seating surfaces together during opening and closing.

By eliminating the opening and closing friction, ORBIT can provide economical, low-pressure operators and still be assured of sufficient thrust to open and close the valve.

ORBIT ACTUATORS ARE SPECIALLY DESIGNED FOR USE EXCLUSIVELY ON ORBIT VALVES.

ORBIT actuators provide reliable, trouble-free, on-off operation and are especially suitable for simple or extensive instrumentation.

ORBIT OFFERS A WIDE VARIETY OF PISTON AND DIAPHRAGM ACTUATORS.

All ORBIT valves can be equipped with perfectly matched ORBIT linear actuators.

Many capabilities can be added to the basic double acting actuator. Models are available with spring return to open or close. Manual override mechanisms are also available.

ORBIT OFFERS A FULL RANGE OF INSTRUMENTATION CAPABILITIES.

A variety of instrumentation capabilities can be provided to meet your system's needs. Many common systems are available as economical standard packages. Pneumatically or Electrically activated systems are available. You may order our standard systems or custom systems designed to your specifications. Standard packages include combinations for spring return or double acting actuators, with signals to open or close and provisions for fail open, fail close, or fail in last position on loss of signal or pneumatic supply.

ORBIT DESIGN ASSISTANCE.

ORBIT can provide design assistance and recommended proven systems, or you may prefer to specify your own design and have our factory mount and test it for you. Most ORBIT valves can be easily automated in the field at a later date.











Using low pressure air supply (up to 65 psi/4.4 bars), these simple reliable diaphragm actuators are designed and built by ORBIT to match the exact needs of the smaller sizes of ORBIT valves.

With valve and actuator from the same company, there is singlesource responsibility for the complete package:

- Operations and maintenance advice
- Repair parts and field service
- Warranty











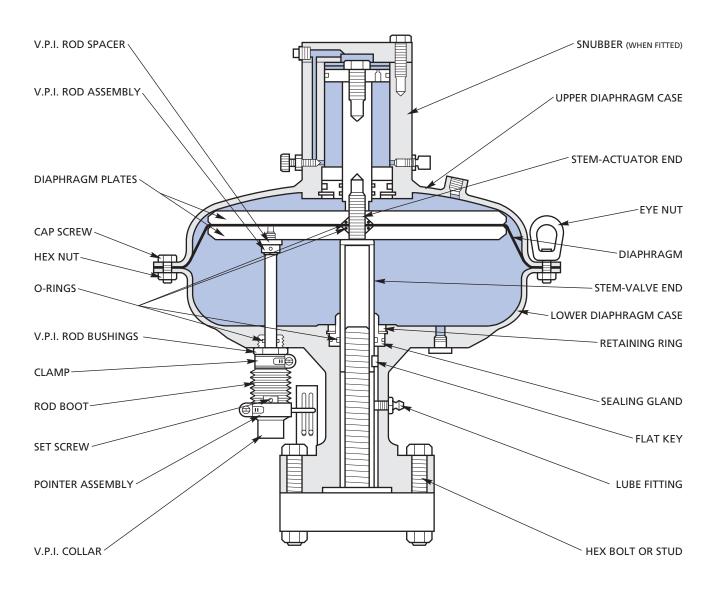




DOUBLE ACTING SERIES 84, 164 & 424



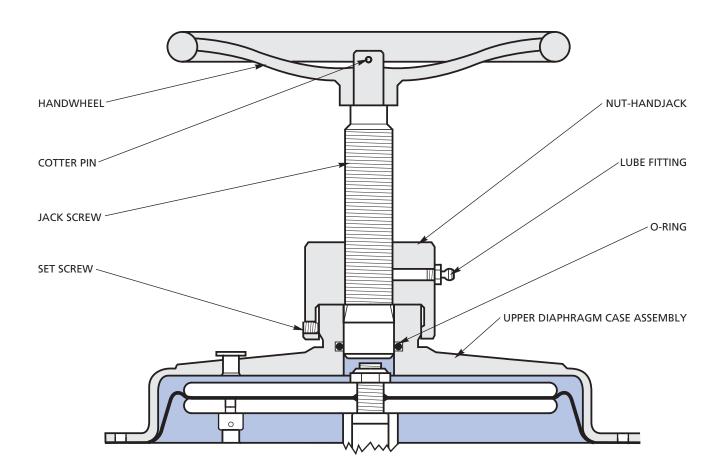






DOUBLE ACTING WITH MANUAL CLOSE MECHANISM SERIES 84 & 164



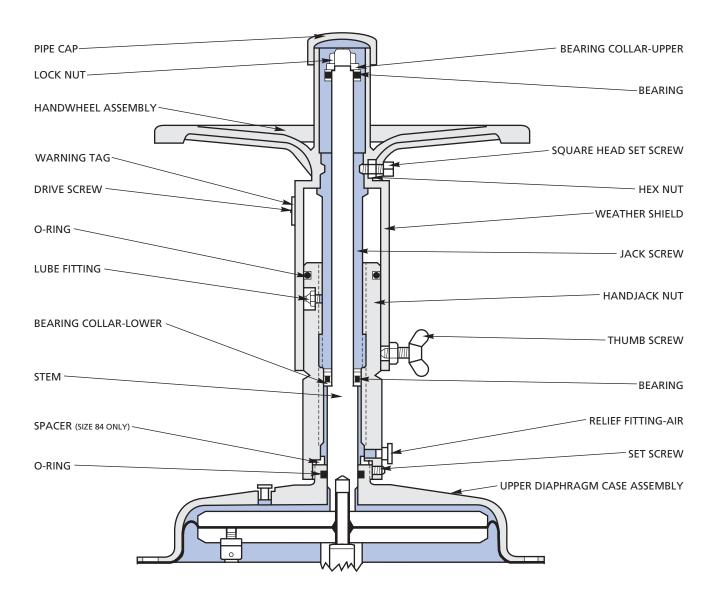






DOUBLE ACTING WITH TWO-WAY MANUAL MECHANISM SERIES 84 & 164

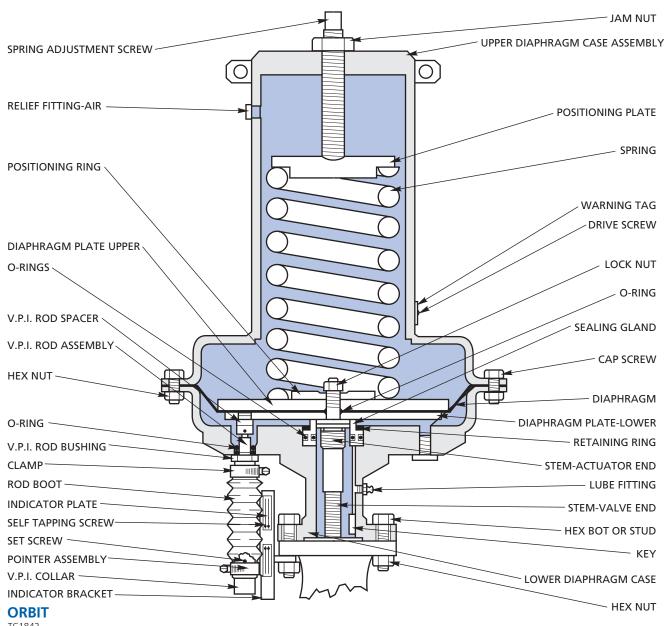






SPRING CLOSE SERIES 84, 164 & 167

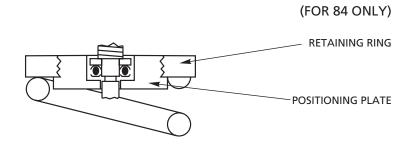


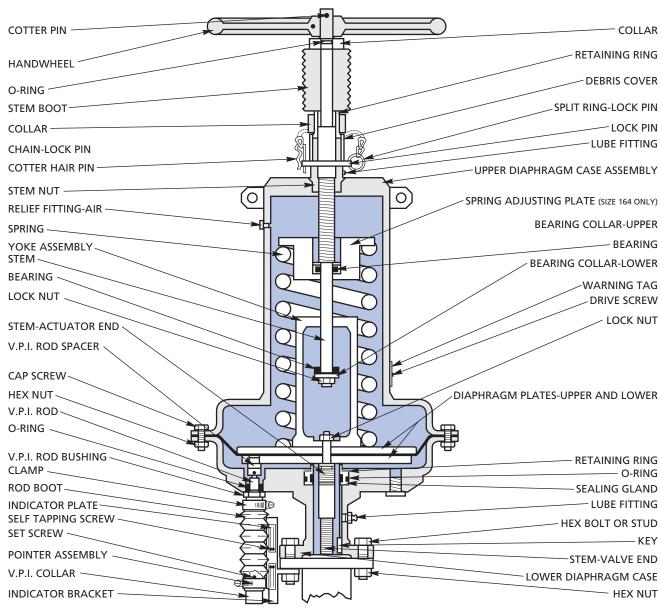




SPRING CLOSE WITH TWO-WAY MANUAL MECHANISM SERIES 84, 164 & 167



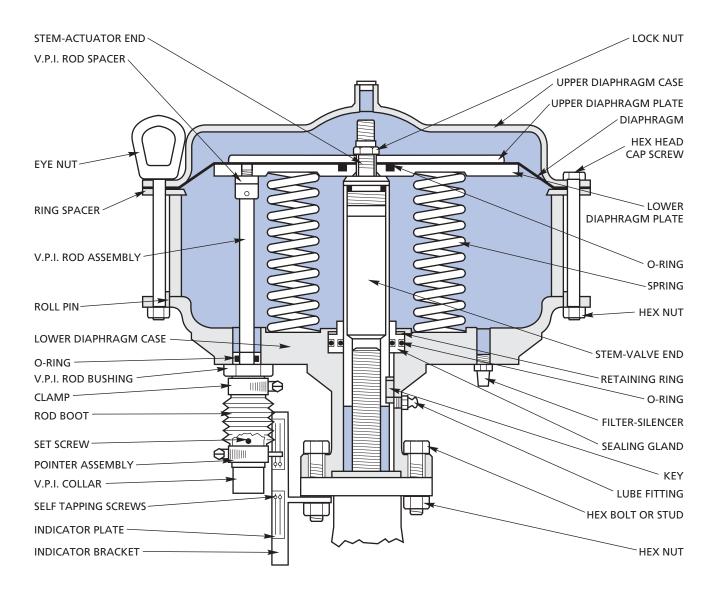






SPRING OPEN SERIES 85 & 165

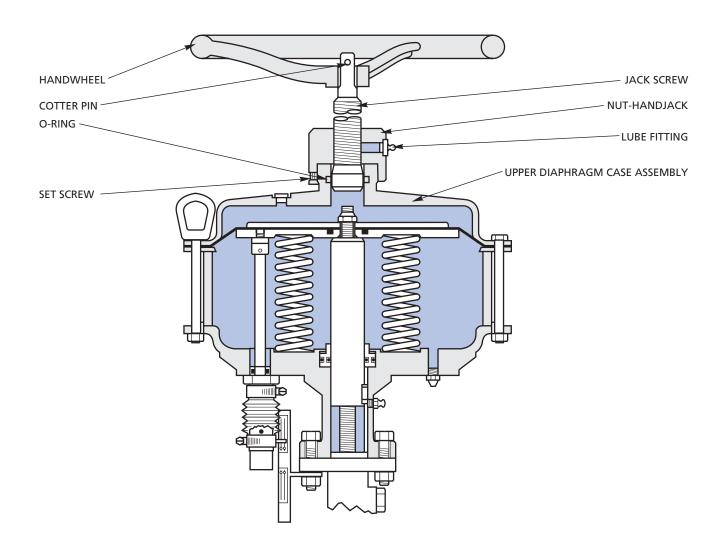






SPRING CLOSE WITH MANUAL CLOSE MECHANISM SERIES 85 & 165







PISTON ACTUATORS





ORBIT Piston Actuators are ideal for larger size valves and are available with many types of optional equipment.

These actuators will provide the required opening or closing force using air, gas or hydraulic pressure. On-off operation is sure, efficient and consumes very little power.

The actuators use two cylinders, one on top of the other, with double acting pistons joined to common central shaft or stem to generate sufficient linear thrust from a compact unit.

A gas over oil tank provides smooth operation, lubrication and assures many years of trouble-free operation. The piston and rod seals operate against polished surfaces, coated with molybdenum disulfide, a dry film lubricant that also minimizes wear.

A variety of accessories can be mounted at various locations on the actuator.

NOTE: Some mounting applications may require bracing to support the cylinder actuator. Consult your ORBIT Representative for mounting positions other than vertical.







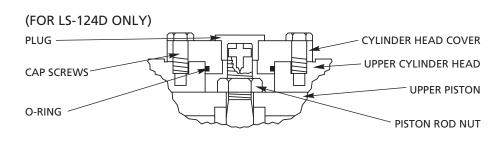


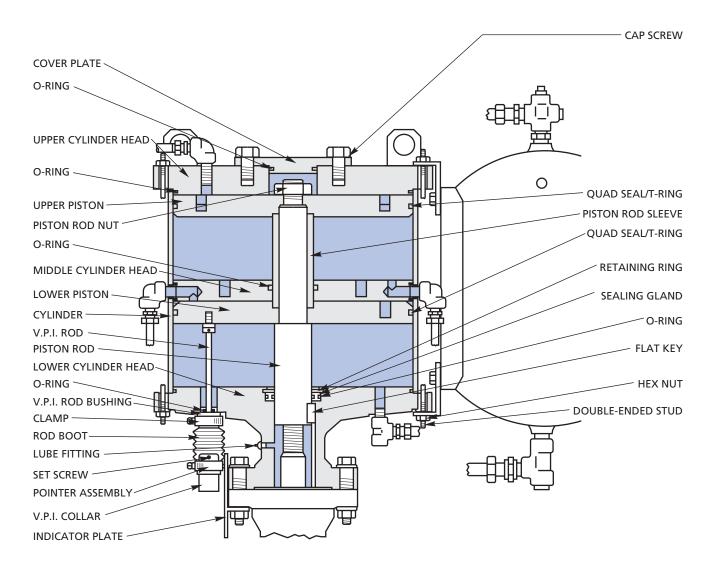


DOUBLE ACTING

SERIES LS-124D, LS-185D, LS-205D, LS-207D, LS-208D, LS-267D, LS-269D & LS-2611T NOTE: "T" Suffix indicates triple stack cylinders.





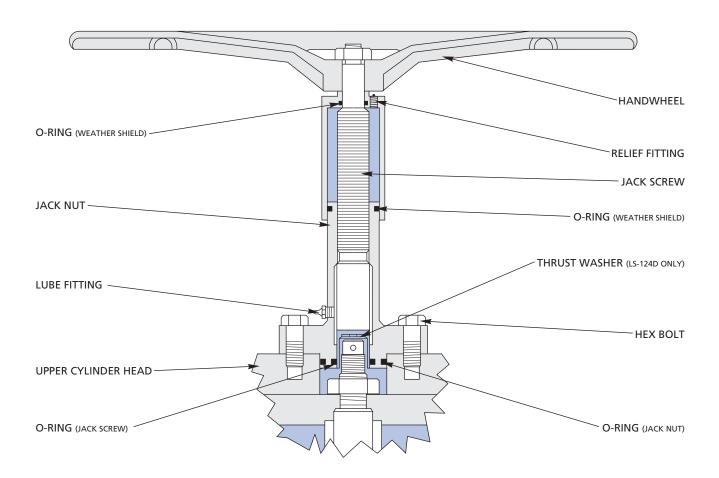


NOTE: Piston stack can be double as illustrated, or triple.



DOUBLE ACTING WITH MANUAL CLOSE MECHANISM SERIES LS-124D, LS-185D, LS-205D & LS-207D

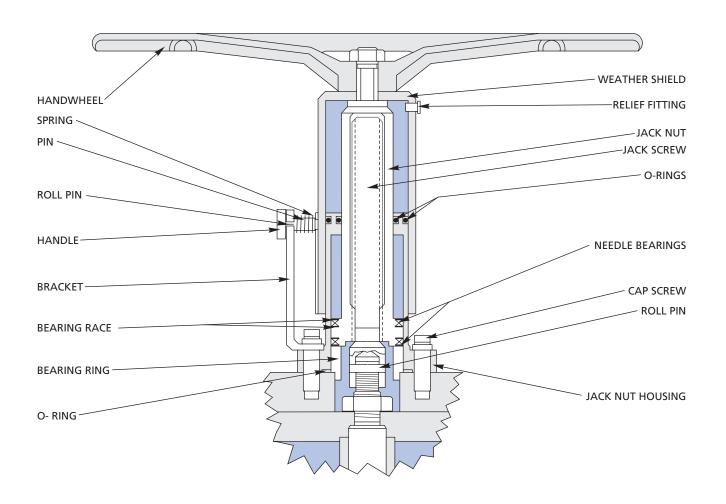






DOUBLE ACTING WITH TWO-WAY MANUAL MECHANISM SERIES LS-124D

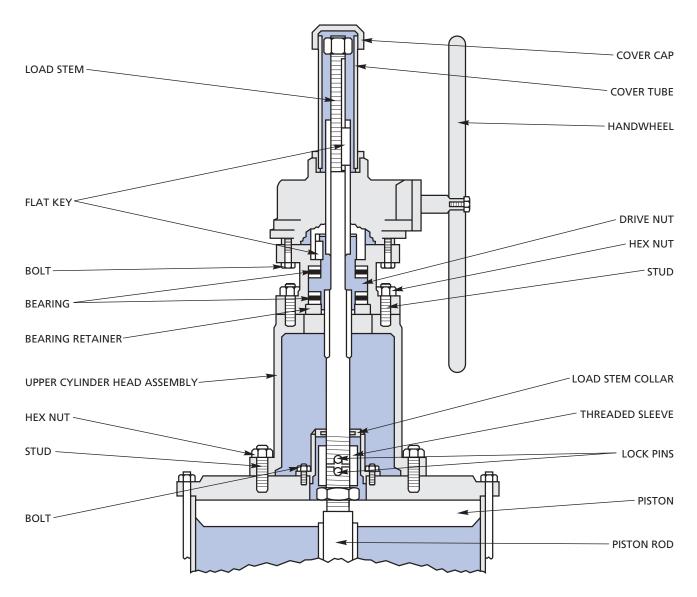






DOUBLE ACTING WITH TWO-WAY MANUAL MECHANISM SERIES LS-267D & LS-269D

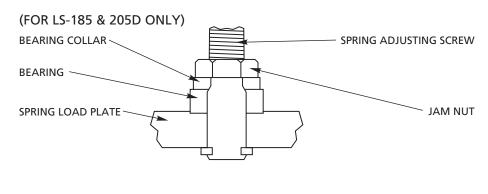


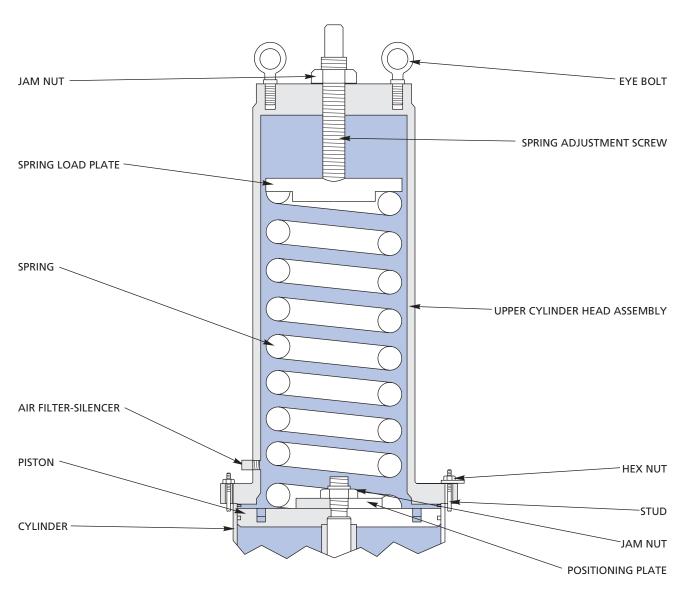




SPRING CLOSE SERIES LS-124D, LS-185D, LS-205D, LS-207D & LS-267D



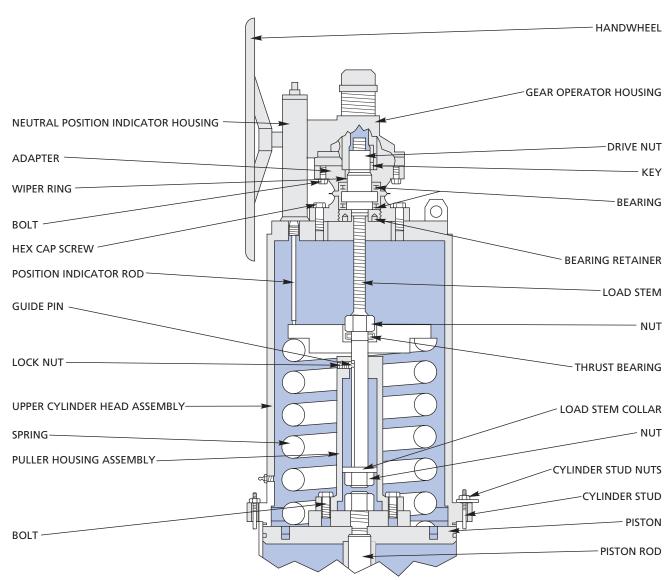






SPRING CLOSE WITH TWO-WAY MANUAL MECHANISM SERIES LS-205D, LS-207D & LS-267D

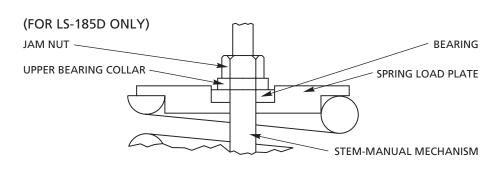


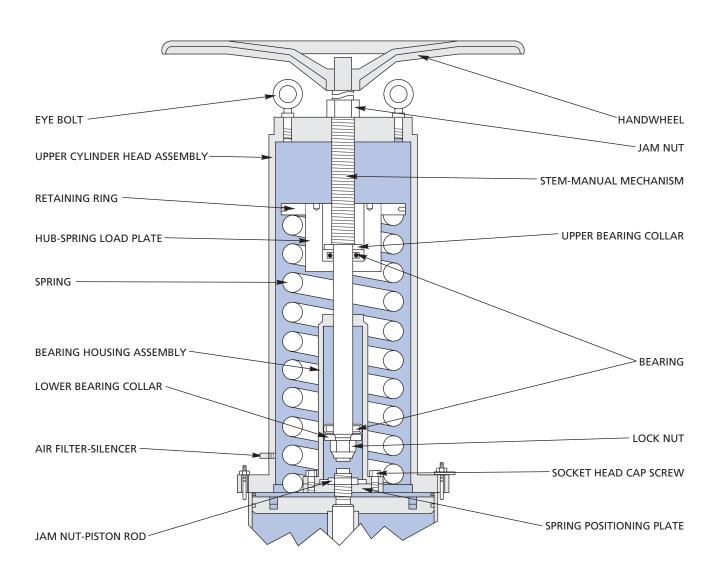




SPRING CLOSE WITH TWO-WAY MANUAL MECHANISM SERIES LS-124D & LS-185D







ORBIT AUTOMATED VALVE PACKAGES BOOK 4

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