



Limitorque Actuation Systems MT Series Bevel Gear Operator

Designed for the Rugged Demands of the Power Industry



The MT Series operators are optimized to deliver reliable performance in power industry valve applications.

Flowserve Limitorque introduces a new bevel gear operator designed for power industry valves.

The MT series is a superior combination of a bevel gear operator torque housing with a new thrust base design ideally suited for torque-seated valve applications and applications involving elevated process temperatures. Both the bevel gear and the thrust base housings are of ductile iron. Robust thrust bearings and drive sleeve/stem nut design combine to offer the most rugged bevel gear operator available for handling the seating and unseating forces of high pressure gate and globe valves used in power plants world-wide.

The operator stem nut is shouldered in the drive sleeve to capture thrust forces within the thrust housing without transferring those forces to the torque housing.

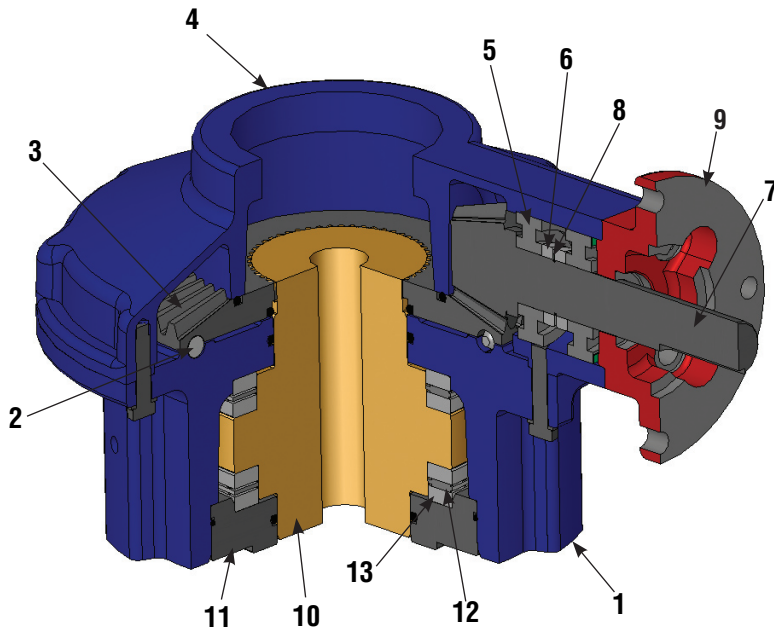
Available in torque ranges to 3,000 ft-lb and thrust ranges to 100,000 lb., the MT series provides high efficiency and strong design for every application. When motorized by the Limitorque MX, SMB, or L120 series electric actuators, the MT offers flexibility for a wide range of valve opening and closing times.

Backed by unsurpassed sales and service support, Flowserve Limitorque Actuation Systems delivers the technology needed for reliable power plant valve operation today and for years to come.

Experience In Motion



Operator Size	Ratio	Torque Rating (ft-lb)	Torque Rating (N m)	Thrust Rating (lb.)	Thrust Rating (kN)	Max. Threaded Stem Acceptance	
						(in.)	(mm)
MT-2	4:1	1,500	2,034	65,000	290	2.87	73
MT-2	6:1	1,000	1,356	65,000	290	2.87	73
MT-3	4:1, 6:1	3,000	4,067	100,000	445	3.54	60



No.	Description
1	Thrust Base
2	Ball Bearing
3	Bevel Gear
4	Bevel Housing
5	Bearing
6	Spacer
7	Input Pinion
8	Retaining Ring
9	Motorized Adapter
10	Stem Nut
11	Thrust Ring
12	Roller Bearing
13	Raceway Washer

Flowserve Corporation has established industry leadership in the design and manufacture of its products. When properly selected, this Flowserve product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Flowserve products should be aware that Flowserve products might be used in numerous applications under a wide variety of industrial service conditions. Although Flowserve can (and often does) provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Flowserve products. The purchaser/user should read and understand the Installation Operation Maintenance (IOM) instructions included with the product, and train its employees and contractors in the safe use of Flowserve products in connection with the specific application.

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because Flowserve is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice. Should any question arise concerning these provisions, the purchaser/user should contact Flowserve Corporation at any one of its worldwide operations or offices.

© 2005 Flowserve Corporation, Irving, Texas, USA. Flowserve is a registered trademark of Flowserve Corporation.

**To find your local Flowserve representative,
visit www.flowserve.com or call USA 1 800 225 6989**

**To find your local Limitorque representative,
visit www.limitorque.com.**

FCD LMENPS1700-01 07/08 Printed in USA.

United States
Flowserve Corp.
Flow Control
Limitorque Actuation Systems
5114 Woodall Road
Lynchburg, VA 24506 USA
Telephone: 434 528 4400
Fax: 434 845 9736

