

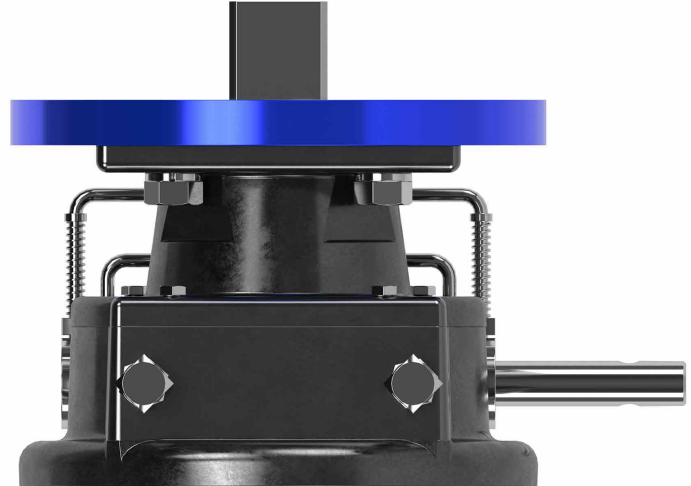
Dynatorque SD declutchable manual override



Enables manual control of valve when automation isn't possible or preferred

Applications

- Emergency operation of automated valves during loss of power, instrument air, or control signal
- Commissioning and functional testing of valves where manual positioning is required before the actuator is placed in service
- Maintenance and troubleshooting by isolating a process or cycling a valve while the actuator is being serviced or has been removed
- Remote or difficult-to-access installations where a reliable and local manual backup is required
- Critical shutoff or isolation duties (e.g., emergency shutdown valves and block valves) where manual intervention may be required as a contingency
- Processes with intermittent automation requirements



Benefits

- Enhances operational safety and reduces downtime by providing a reliable manual backup
- Enables controlled manual positioning with a self-locking worm gear that reduces the risk of unintended valve movement from process forces
- Supports safer and faster maintenance and commissioning by allowing manual stroking and positioning without removing the actuator or valve package
- Reduces wear-related intervention; typically lubricated for life with minimal periodic maintenance required under normal service

Dynatorque SD declutchable manual override.

How it improves performance

Installed between an actuator and valve, the Dynatorque™ SD declutchable manual override is compatible with both spring-return and double-acting actuators. It ensures reliable valve operation during maintenance, emergencies, and system failures. The durable design and simple installation suit a range of industrial settings, including oil and gas, water treatment, and manufacturing. A locking device for these overrides is also available to prevent unintended engagement or disengagement.

(Specifications on page 2)

Features

- Standard ISO 5211 mounting dimensions on top and bottom flanges or custom machined for mounting to actuator and valve
- Switchable worm gear that enables manual or automatic operation
- Compatibility with both double-acting and spring-return actuators
- Transparent to valve operation when disengaged, enabling actuator to cycle without added loading
- Nine frame and spur combinations that provide output torque from 3,000 to 315,000 lbf.in [340 to 35,590 N.m]
- One-handed declutch mechanism
- Suitable for all handwheel applications with chainwheel adapters
- Compatibility with third-party sensor switches for improved monitoring and automation

Dynatorque SD declutchable manual override



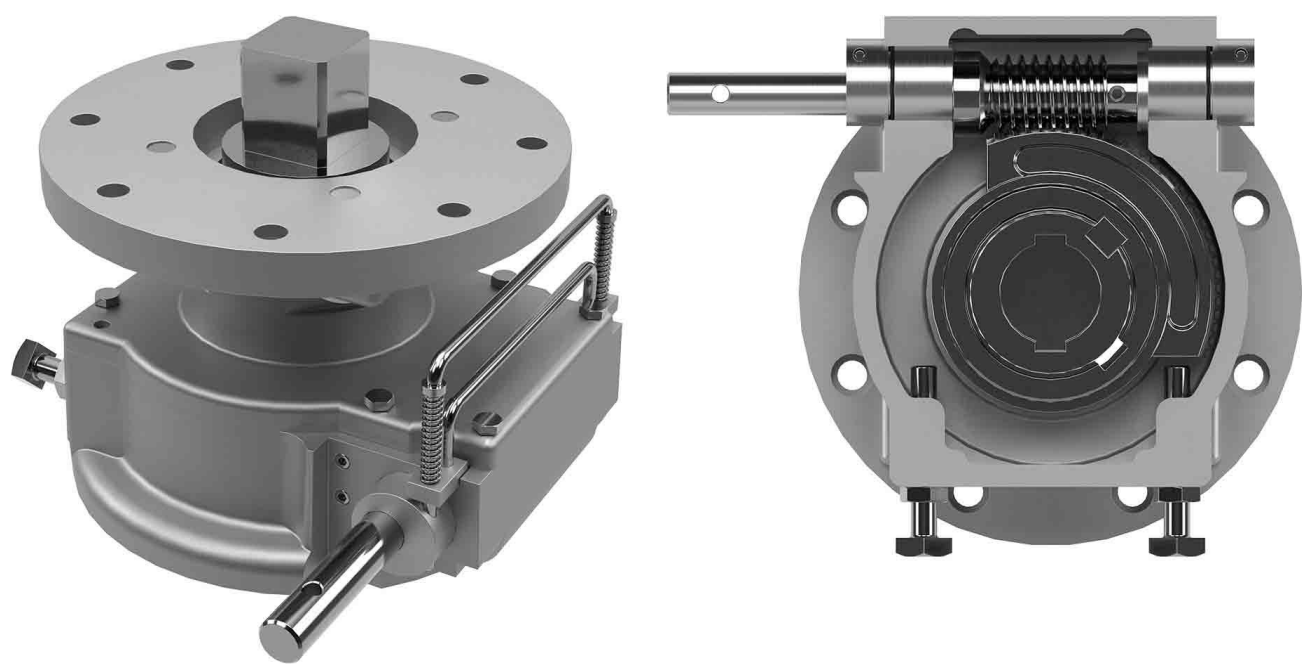
Dynatorque SD declutchable manual override Specifications

Specifications	DT3SD to DT21SD	DT36SD to DT54SD	DT90SD to DT140SD
Gear type	Declutchable manual override	Declutchable manual override	Declutchable manual override
Applications	Standard and low temperatures	Standard and low temperatures	Standard and low temperatures
Approx. torque rating	0–26,000 lbf.in	26,000–63,000 lbf.in	63,000–140,000 lbf.in

Dynatorque SD declutchable manual override Specifications

Specifications	DT315SD
Gear type	Declutchable manual override
Applications	Standard and low temperatures
Approx. torque rating	140,000–315,000 lbf.in

All specifications are subject to change without notice.



Side (left) and bottom (right) views of a Dynatorque SD declutchable manual override.