

Spirax Sarco AEL7 Series

Heavy Duty Electric Actuator

The AEL7 Series is a cost effective heavy duty linear electric actuator. Especially suited to the steam generation and distribution areas of the steam ecosystem where robustness and reliability are key requirements. Designed to couple directly to the range of Spirax Sarco Spira-trol™ and Hiter control valves.



Product Features

- + Thrust Range 1kN to 20kN.
- + Suitable for Spira-trol™ and Hiter control valves.
- + Available in 24Vac, 24Vdc, 115Vac and 230Vac supply Voltages.
- + VMD and modulating electronic positioner card options.
- + Potentiometer directly coupled to valve plug and seat.
- + Heavy duty, low backlash gearbox.
- + Heavy duty aluminium frame.
- + Lubricated for life gearbox.
- + Directly compatible with Spirax Sarco level control systems
- + Optional FSC shut down module.
- + DIN 14597 Certified Safety option with Spira-trol™ valve¹.

Product Benefits

- + Precise valve control - direct contact between plug and potentiometer reduces control system backlash, improves resolution and eliminates position feedback deviation.
- + Heavy duty gearbox provides protection from water hammer in steam and level control systems².
- + Simple to commission without the requirement for manual intervention³ in VMD and modulating versions - zero risk of overrun damage.
- + Voltage and mA feedback standard with modulating versions.
- + Robust, reliable, vibration resistant design.
- + Suitable for tough environments - Enclosure Protection Class IP65³ as standard plus heater options.
- + Silent operation.

¹ Seat Option "P"; ² The risk of water hammer must always be reduced for warranty; ³ Except AEL7T versions

Typical applications

- + Level control systems - boilers are the steam system energy center and maximum reliability of operation is key to minimising production downtime and maximising operating profit.
- + Critical steam ecosystem distribution and control applications where reliability and repeatability are essential.
- + Systems with a high risk of water hammer or vibration - the heavy duty gearbox and electronics of AEL7 series actuator are designed to cope with abnormal events².
- + High-Limit applications - in combination with Spira-trol™, the AEL7T versions are DIN14597 compliant and certificated as a safety device¹.



AEL7 Heavy Duty linear electric actuator - designed to help:

Production and Process Managers

Who want to remove the risk of unplanned downtime or security of steam supply, the AEL7 can be relied upon to provide years of faultless service. The gearboxes are designed to withstand the stresses of steam system life providing a high level of impact and vibration resistance.

Maintenance Managers

Tasked with continuous improvement to help plant maximise production and minimise reactive downtime, the AEL7 Series Heavy Duty Actuator can be used as a problem solver for applications where vibration or water hammer can reduce the life expectancy of lower cost.

Energy and Sustainability Managers

Looking at reducing reliance on inefficient compressed air systems? The AEL7 offers an alternative to compressed air for some safe area applications where the speed of process

response is slow to medium. A typical DN80 (Ø3") valve and 6kN AEL7 in a steam distribution application could pay for itself in less than a year.

Health and Safety Managers

Tasked with improving heat transfer system safety (of secondary temperature), the DIN14597 compliant AEL7T safety device can be relied upon to shut down the source of heat energy quickly and reliably time and time again. The valve can be closed in as little as 5-7s, shutting the flow of energy to the heat transfer surface almost instantaneously. Plus the device can then be utilised as a slow opening valve reducing the risk of water hammer onto the heat exchanger upon startup.

¹ Seat Option "P"; ² The risk of water hammer must always be reduced for warranty

For more information visit:
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