

KWS Diverter Gate Located Under Centrifuge

Multi-Turn Electrically Actuated Slide Gates

KWS multi-turn electrically actuated slide gates are used to control or divert the flow of bulk materials in a wide variety of applications. Slide gates can be found on screw conveyors at intermediate discharge points, below hoppers as cut-off valves or even as emergency shut-off gates to stop material surges.

Linear actuators are typically used for low load, low cycle applications because their force/torque output is small and their actuation mechanism is light-duty. For heavier-duty applications such as truck or bin loadout conveyors, multi-turn electrical actuators are a more reliable choice. Multi-turn actuators can be used for simple open/close duty and are very precise so they can be used for modulating duty, which is where a gate or valve is opened to a desired point set through upstream control.

Multi-turn actuators can be designed for actuation parallel or perpendicular to the direction of gate stroke. Parallel actuation is known as rising stem and uses an acme screw to translate the gate blade. Acme screw threads are designed for higher loads when compared to other thread types. Perpendicular actuation is known as rotating and uses a keyed shaft with a rack and pinion mechanism to translate the gate blade.

Features

Electric Actuator – KWS multi-turn electrically actuated slide gates utilize heavy duty Acme screws or keyed shafts for long life, even in the harshest conditions. Actuator rotation speeds typically vary from 4 to 180 rpm. Actuator torque outputs typically vary from 7 ft-lbs. all the way up to 23,600 ft-lbs.

Rugged Actuator – Motor and gearbox are double-sealed in a weather-proof enclosure that provides high quality corrosion protection suitable for a wide variety of temperature ranges.

Control Box – KWS multi-turn electrically actuated slide gates come with an integrated control unit that has a motor starter, motor heater, torque and limit switches, buttons for open/close and local/stop/remote function, along with digital and programmable output.

Benefits

Low Speed, High Torque Operation – KWS multi-turn electrically actuated slide gates produce high force for shearing through bulk materials when located under a silo or hopper.

Variety of Uses – KWS multi-turn electrically actuated slide gates are versatile and custom tailored to fit almost any application or design condition. Actuators can be used in corrosive, wet and explosion-proof environments such as wastewater or chemical plants.



**Design
Engineering
Manufacturing**

KWS Manufacturing

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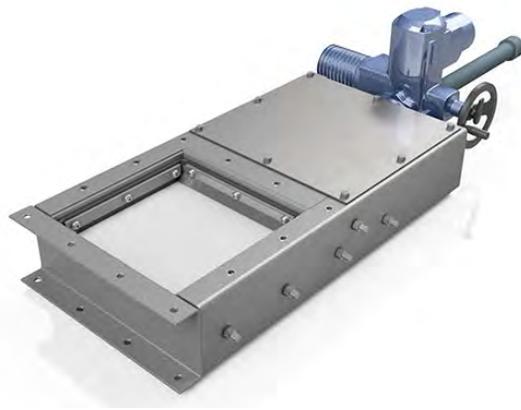
www.kwsmfg.com



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Easy to Wire & Program – The actuator controls can handle a wide variety of control communication protocols and are easily configurable for a variety of input and output signals. Travel limit setting, configuration of relays, alarms and other actuator settings can be performed with an infra-red or Bluetooth remote controller.



KWS Slide Gate with Rising Stem Actuator



KWS Slide Gate with Rotating Actuator



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