



UUNIQUE- Rack & Pinion Slide Gate Valve

Model -URPSGV

The Rack & Pinion Motor Operated Slide Gate Valve is a heavy-duty isolation valve designed for control of dry bulk materials in gravity flow applications. The valve is engineered in rectangular port configuration, making it suitable for installation at silo inlets, hopper outlets, and material transfer points where reliable shut-off is essential.

This valve utilizes a rack and pinion drive mechanism coupled with an electric motor, ensuring smooth, synchronized, and uniform linear movement of the gate. The design allows consistent opening and closing across the full width of the port, minimizing jamming and ensuring controlled material discharge. Such construction makes the valve ideal for cement, sugar, chemical, power, bulk solids handling, and process industries.

The valve body is fabricated from carbon steel structural sections (ISMC channel construction), providing high mechanical strength and rigidity for large openings. The gate is manufactured from heavy-duty carbon steel plate, designed to withstand abrasive material flow. The rack and pinion assembly, also constructed from carbon steel, ensures positive drive transmission and reliable operation under continuous duty conditions.

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To reduce operating effort and improve service life, the gate is properly guided within the body, ensuring stable movement during operation. The valve is supplied with a motor-mounted yoke assembly, allowing easy integration with automation systems.

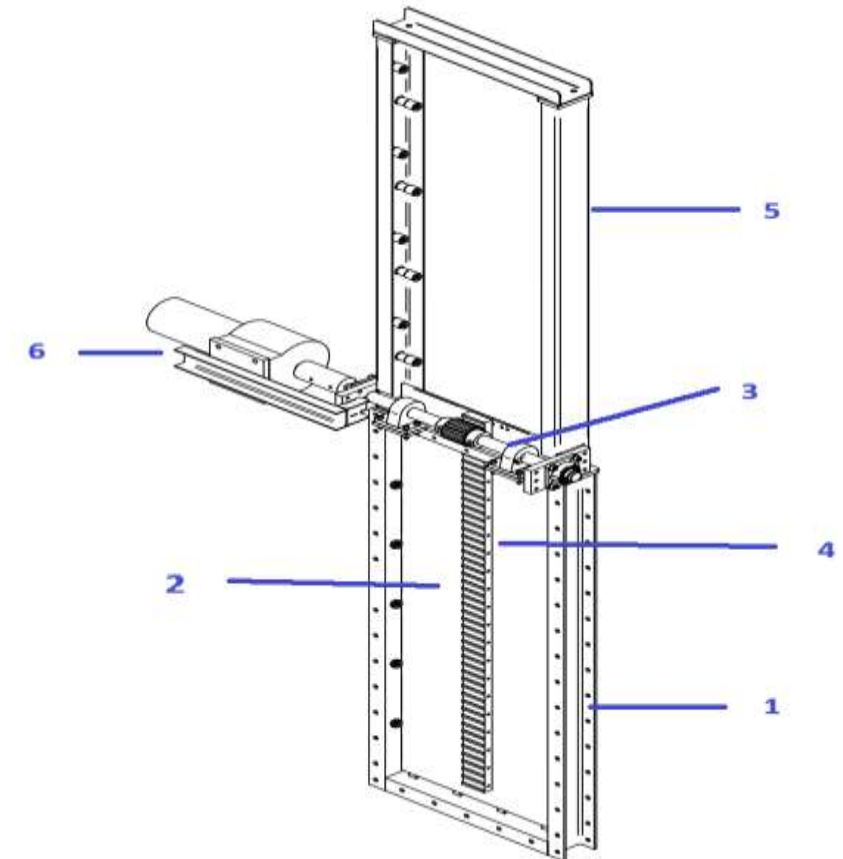
Leakage control is ensured through better sealing arrangements, with seat integrity verified through feeler gauge testing, preventing material escape and dust emission. The valve is externally painted for corrosion protection and long service life in industrial environments.

This series can be customized in size, orientation, actuation type, and mounting hole patterns, making it suitable for project-specific requirements and OEM applications.

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Components	Constructions
Body	SS:304/SS:36/ Carbon Steel
Gate	SS:304/SS:36/ Carbon Steel
Pinion Shaft	Carbon Steel / EN8
Rack	Carbon Steel
Yoke	Carbon Steel
Motor	Standard



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Rack and Pinion Slide Gate Valve Size 1900x800 mm

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Rack and Pinion Slide Gate Valve Size 750x950 mm

