

Technical data Part-turn gearboxes

Features and functions	
Type of duty	Class A according to EN 15714-2: OPEN-CLOSE
Weatherproof version	Class B according to EN 15714-2: Inching/positioning or positioning duty
End stops	End positions OPEN and CLOSED can be set individually.
Swing angle	90° ± 5°
Direction of rotation	Standard: Suitable for clockwise closing valves
	Option: Suitable for counterclockwise closing valves
Lifetime	GQB 80.1 – GQB 125.1 Lifetime according to EN 15714-2 and ISO/DIS 22109 when assuming a valve torque safety factor of 1.5.
	GQB 160.1 – GQB 250.1 Lifetime according to EN 15714-2 and ISO/DIS 22109 when assuming a valve torque safety factor of 1.2.
Worm wheel material	Spheroidal cast iron (EN-GJS)
Housing material	Cast iron (EN-GJL)
Self-locking	The gearboxes are self-locking when at standstill under normal service conditions; strong vibration may cancel the self-locking effect. While in motion, safe braking is not guaranteed. If this is required, a separate brake must be used.
Static safety factor	<ul style="list-style-type: none"> Sized with double safety, in relation to maximum torques With overload protection to prevent housing damage

Interface to multi-turn actuator or operator	
Input shaft	Standard: Corrosion-protected, cylindrical with parallel key according to DIN 6885-1
	Option: Cylindrical with parallel key according to DIN 6885-1 with square adapter for power tool emergency operation
Flange for actuator	In accordance with EN ISO 5210
Manual operation	Standard: <ul style="list-style-type: none"> Handwheel made of aluminium with electrophoretic coating Handwheel with ball handle
	Options: <ul style="list-style-type: none"> Handwheel made of GJL-200 with electrophoretic coating and painting Handwheel lockable Handwheel extension on request
Position indicator	Mechanical position indication proportional to travel (pointer cover)

Interface to the valve	
Output drive flange	Dimensions according to EN ISO 5211
Connection to valve shaft	Standard: Plug-in unmachined output drive sleeve with splines
	Options: <ul style="list-style-type: none"> Plug-in finish-machined coupling with splines and bore with keyway, square bore or two-flat with grub screw for secure fixing to valve shaft. Plug-in finish-machined coupling with splines and bore with keyway, square bore or coated two-flat with grub screw for secure fixing to valve shaft. Integral coupling for adopting enlarged valve shaft diameter with 4 keyways according to DIN 6885 (not available for GQB 80.1 - GQB 100.1)
Spigot	Standard: <ul style="list-style-type: none"> GQB 80.1 – GQB 125.1: Plane (recess) according to EN ISO 5211 GQB 160.1 – GQB 250.1: Spigot according to EN ISO 5211 (integrated into the housing)
	Options: <ul style="list-style-type: none"> 4 bores for dowel pin GQB 80.1 – GQB 125.1: With spigot according to EN ISO 5211 GQB 160.1 – GQB 250.1: Plane

Service conditions	
Use	Indoor and outdoor use permissible
Ambient temperature	Standard: –40 °C to +100 °C
	Option: Further temperature ranges on request
Humidity	Up to 100 % relative humidity
Vibration resistance according to IEC 60068-2-6	1g, 5 to 200 Hz or on request

We reserve the right to alter data according to improvements made. Previous documents become invalid with the issue of this document.

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Enclosure protection according to EN 60529	IP67	
Corrosion protection	KN	Suitable for installation in industrial units, in water or power plants with a low pollutant concentration.
	KS	Suitable for use in areas with high salinity, almost permanent condensation, and high pollution.
Coating	Double layer powder coating	
Colour	Standard:	AUMA silver-grey (similar to RAL 7037)
	Option:	Available colours on request
Further information		
EU Directives	Machinery Directive: (2006/42/EC)	
Reference documents	Dimensions GQB 80.1 – GQB 125.1 Dimensions GQB 160.1 – GQB 250.1 Dimensions Extensions for input shaft Mounting position – Mounting of actuators	