Technical data Part-turn gearboxes

Type	Output torque	Reduction ratio	Input torque[1]	Valve attachment		Factor[2]	Turns at input shaft	Valve shaft			Weight[3]
	max. [Nm]		approx. [Nm]	Housing GGG	Option Housing BZ	approx.	for 90°	Shaft Ø max. [mm]	Square max. [mm]	Two-flat max. [mm]	approx. [kg]
GHE 05.1	125	80:1	5	F07 F10[4]	F07	25	20	20	17	16	2.5
GHE 07.1	250	80:1	10	F07 F10[4]	F07	25	20	25.4	22	22	4.0
GHE 10.1	500	80:1	20	F10 F12[4]	F10	25	20	38	30	27	7.5
GHE 12.1	1,000	80:1	40	F12 F14[4]	F12	25	20	50	36	41	13

Use
For manual operation (e.g. butterfly valves, ball valves and plug valves)

Notes on table	
1) Input torque	For maximum output torque
2) Factor	Conversion factor from output torque to input torque for gearbox size definition
3) Weight	Indicated weight does neither include coupling nor operating elements
4)	With intermediate flange and price adder, possibly requires an extended coupling

Features and functions		
Version	Clockwise rotation RR	
Housing material	Standard:	Spheroidal cast iron (GJS-500-7)
	Option:	Bronze (alloy)
Self-locking	Yes	
Swing angle	Standard:	Fixed angle between 82° and max. 98° Adjustment in the factory to 90°, unless another angle is stated when setting.
	Option:	Multi-turn version without end stops with AUMA special sizing
Mechanical position indicator	Continuous position indication	
Operation elements	Standard:	Handwheel made of polyamide
	Option:	Handwheel with ball handle Operation elements according to VG 85081 made of bronze in version A or with additional ball element in version B
Valve attachment	Standard:	Integrated into the housing in accordance with EN ISO 5211
	Option:	Implemented with intermediate flange With intermediate flange and price adder, possibly requires an extended coupling
Splined coupling for connection to the valve shaft	Part-turn gearbox can be mounted at 4 x 90° increments on coupling	
	Standard:	Coupling without bore
	Option:	Machined coupling with bore and keyway, square bore or bore with two-flats
Coupling material	Standard:	Quenched and tempered steel
	Option:	Version made of bronze

Service conditions		
Ambient temperature	–25 °C to +80 °C	
Enclosure protection according to EN 60529	Standard:	IP67
	Option:	IP68
	According to AUMA definition, enclosure protection IP68 meets the following requirements: • Depth of water: maximum 8 m head of water • Duration of continuous immersion in water: Max. 96 hours • Up to 10 operations during continuous immersion	

Technical data Part-turn gearboxes

Corrosion protection	Standard:	KN	Suitable for installation in industrial units, in water or power plants with a low pollutant concentration
	Options:	KM	Bronze suitable for use in seawater or saline atmospheres
Paint	Two-component iron-mica combination		
Colour	AUMA silver-grey (similar RAL 7037)		
Lifetime	Operating cycles (OPEN - STOP - CLOSE) for swing movements of 90° and temperature range of –25°C to +80°C GHE 05.1 – GHE 12.1: 1,000		

Further information	
Reference documents	Dimensions GHE 05.1 – GHE 12.1 Operation instructions GHE 05.1 – GHE 12.1