Bevel gearboxes GK 10.2 – GK 40.2												
Туре	Output torque		Reduction ratio	Input torque <sup>1)</sup>		Valve attachment		Factor <sup>2)</sup>	Input shaft		Hand- wheel	Weight <sup>3)</sup>
	Nominal torque	Modulating torque		Nominal torque	Modulating torque	Standard	Option		Q	5		
	max. Nm	max. Nm		Nm	Nm	EN ISO 5210	DIN 3210		Standard	Option	max. ⊘ mm	approx. kg
GK 10.2	120	60	1:1	135 67	66 33	F10	G0	0,9 1,8	20	_	315 200	8,5
GK 14.2	250	120	2 : 1 2.8 : 1	139 100	66 48	F14	G½	1,8 2.5	20	30	315 250	15
GK 14.6	500	200	2.8 : 1 4 : 1	198 139	80 55	F14	G½	2,5 3,6	30 20	- 30	400 315	15
GK 16.2	1,000	400	4 : 1 5.6 : 1	278 198	111	F16	G3	3,6 5,0	30	_	500 400	25
GK 25.2	2,000	800	5.6 : 1 8 : 1	397 278	160 111	F25	G4	5,0 7,2	30	_	630 500	60
GK 30.2	4,000	1,600	8 : 1 11 : 1	556 404	222	F30	G5	7,2 9,9	30	40	800	110
GK 35.2	8,000	_	11:1	808 556	-	F35	G6	9,9 14,4	40	- 30	800	190
GK 40.2	16,000	_	16 : 1 22 : 1	1 111	_	F40	G7 <sup>4)</sup>	14,4	40	-	800	250

Possible combinations with multi-turn actuators					
Gearbox	Flange for mounting	ig of actuator	Permissible actuator weight	Suitable AUMA multi-turn actuator <sup>5)</sup>	
Type	Standard EN ISO 5210	Option DIN 3210	max. kg	Type	
01/ 40 0	F10/F14	G0/G½	40/80	SA(R) 10.1/SA(R) 14.1	
GK 10.2	F10	G0	40	SA(R) 07.5/SA(R) 10.1	
GK 14.2	F10/F14	G0/G1/2	40/80	SA(R) 10.1/SA(R) 14.1	
GK 14.2	F10	G0	40	SA(R) 10.1	
GK 14.6	F14	G½	80	SA(R) 14.1	
GK 14.0	F10/F14	G0/G1/2	40/80	SA(R) 10.1/SA 14.1	
GK 16.2	F14	G½	80	SA(R) 14.1/SA 14.5	
GK 16.2	F14	G½	80	SA(R) 14.1	
GK 25.2	F14	G½	80	SA(R) 14.5	
GK 25.2	F14	G½	80	SA(R) 14.1/SA 14.5	
GK 30.2	F14/F16	G½/G3	80/160	SA(R) 14.5/SA(R) 16.1	
GK 30.2	F14	G½	80	SA(R) 14.5	
GK 35.2	F16	G3	160	SA 16.1	
GK 35.2	F14/F16	G½/G3	80/160	SA 14.5/SA 16.1	
GK 40.2	F16/F25	G3/G4	160/300	SA 16.1/SA 25.1	
GK 40.2	F16	G3	160	SA 16.1	

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<sup>1)</sup> At max. output torque

<sup>2)</sup> Conversion factor from output torque to input torque to determine the actuator size

<sup>3)</sup> Gearbox without output shaft and without mounting flange for actuator

<sup>5)</sup> Standard flange according to EN ISO 5210

## GK 10.2 - GK 40.2

## **Technical data Multi-turn gearboxes**

Application						
For motor or manual operation of	/alves (e.g. gate val	ves and globe valves).				
Features and functions						
Type of duty	Short-time duty S2	? - 15 min (open-close duty)				
	Intermittent duty S4 - 25 % (modulating duty)					
Direction of rotation	Option: GK Rev	ckwise rotation at input shaft results in clockwise rotation at output shaft 10.2 – GK 25.2 ersal of rotation direction using a reversing gearbox GW 14.1 30.2 – GK 40.2 ckwise rotation possible as an alternative				
Stages	Single stage: GK 10.2 – GK 25.2 Double stage: GK 30.2 – GK 40.2					
Input shaft	Standard: Cylir	, , , , , , , , , , , , , , , , , , , ,				
Operation						
Motor operation		multi-turn actuator ng the multi-turn actuator (refer to table on page 1)				
Manual operation	Standard: With Options: - With - Ma	dwheel diameters (refer to table on page 1)  Without ball handle - With ball handle - Material GJL-200 - Remote extension shaft (not included in AUMA's scope of delivery)				
Valve attachment	_					
Output drive types  A, B1, B2, B3, B4 according to EN ISO 5210  A, B, D, E according to DIN 3210  C according to DIN 3338  Special output drive types: AF, AK, AG, IB1, IB3, IB4						
Service conditions		71				
Mounting position	Any position					
Enclosure protection according	Standard: IP 6	7				
to EN 60 529 <sup>7)</sup>	Options: IP 6	8 (max. 6 m head of water)				
Corrosion protection	Standard: KN Options: KS KX	Suitable for installation in industrial units, in water or power plants with a low pollutant concentration  Suitable for installation in occasionally or permanently aggressive atmosphere with a moderate pollutant concentration (e.g. in wastewater treatment plants, chemical industry)  Suitable for installation in extremely aggressive atmospheres with high humidity and high pollutant concentration				
Finish coating	Standard: Two	-component iron-mica combination				
Colour	Standard: AUN	MA silver-grey (similar to RAL 7037) if finish painted er colours on request				
Ambient temperature	Options: -60	°C to +80 °C °C to +60 °C (extreme low temperature), EL version C to + 120 °C (high temperature), H version				
Lifetime	Open-close duty: GK 10.2: GK 14.2 – 16.2: GK 25.2 – 30.2: GK 35.2 – 40.2: Modulating duty <sup>8</sup> ): GK 10.2: GK 14.2 – 16.2: GK 25.2 – 30.2:	Operations (OPEN - CLOSE - OPEN) with 30 turns per stroke 20,000 operations 15,000 operations 10,000 operations 5,000 operations 5,000 operations 5.0 million modulating steps 3.5 million modulating steps 2.5 million modulating steps				

- 6) With respect to size, please contact AUMA
- 7) Refer to information sheet "Multi-turn gearboxes in enclosure protection IP68 (submersible)"
- 8) The lifetime for modulating duty depends on the load and the number of starts. A high starting frequency will rarely improve the modulating accuracy. To reach the longest possible maintenance and fault-free operating time, the number of starts per hour chosen should be as low as possible for the process.

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## Technical data Multi-turn gearboxes

GK 10.2 – GK 40.2

Accessories					
Limit switching	WSH limit switching device for manually operated valves. For signalling intermediate and end positions. (refer to separate data sheet)				
Reversing gearboxes	Reversing gearbox GW for reversing the rotational direction for manual and motor operation				
Special features for use in	potentially explosive atmospheres				
Explosion protection	II2G c IIC T4 according to ATEX 94/9/EC				
Type of duty <sup>9)</sup>	During open-close duty: Short-time duty S2 - 15 min. at 50 % of maximum nominal output torque up to GK 14.6 and with 35 % of maximum nominal output torque from GK 16.2 During modulating duty: Intermittent duty S4 – 25 % at maximum modulating torque				
Ambient temperature	Standard: -40 °C to +60 °C Options: -60 °C to +60 °C (extreme low temperature) Combinations with SAExC actuators at ambient temperatures 40 °C with special sizing.				
Further information					
Reference documents	Product description Multi-turn gearboxes GK 10.2 – GK 40.2; GST 10.1 – GST 40.1 Dimensions GK 10.2 - GK 40.2 Technical data SA/SAR Technical data GW Technical data WSH				

9) The type of duty must not be exceeded.

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