

Gearbox

LV 9940

Features: Manual operated quarter-turn gearbox for ball and butterfly valve.

GJL 250 cast iron body with epoxy coating. Sealed to IP67.

Optional accessories: Position indicator, padlocking, limit switchbox, chain driver, stem extension.





1. Preface

RM Series Gearboxes are quarter turn gearboxes intended for manually operated ball and butterfly valves.

1.1. Technical Data

Connection data and allowable torques are as follows:

Туре	Max Torque (Nm)		Connection			
	Output	Input	Size	Drilling*	Bore***	
RM.0250	250	21	2" to 6"	4 x M6 x 10 / 4 x M8 x 16	P 17	
RM.0750	750	50	8″	4 x M8 x 16 / 4 x M10 x 16**	P 22	
RM.1200	1200	48	10" to 12"	4 x M12 x 21	P 27	

*: number of holes x thread x thread depth **: does not comply with ISO5211 standard

***: Q= square, P=polygon

1.2 Warnings

Be sure to read and understand this manual before the installation and use of the gearbox.
Check that the gearbox is correctly sized for the valve to be operated; do not exceed maximum allowable torques.
Installation and operating shall be carried out by trained staff, taking account of local safety regulations.
Store in a dry place and protect against dust.

2. Installation

1. We recommend to mount the handwheel on the input shaft before assembling the gearbox to the valve. (Fig 1.)



2. Gearbox is delivered in 15% off closed position. Check the fully closed position by turning the handwheel clockwise.

3. Check that bolt circle if the ISO flanges (valve and gearbox) match. Check also that valve stem and gearbox bore match.

4. Make sure the valve is in the closed position. If not, close the valve before continuing.

5. Mount the gearbox on the valve. Fasten with bolts and spring washers. Use bolts of 8.8 quality or better. Thread depth is shown in section 1.1 above. Fasten bolts crosswise to the torque values shown here:

Bolt	M6	M8	M10	M12
Torque (Nm)	9.5	23	46	79



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3. End stop adjustment



• The gearbox is self-braking. No additional fixtures are required to retain the valve position.

• We recommend you check the bolt between the valve and gearbox for tightness six months after commissioning. • If the gearbox is seldom operated we recommend you perforn a test run every six months.