

RMD-DG ACTREG DECLUTCHABLE MANUAL GEARBOX

FEATURES

ACTREG RMD-DG manual gearboxes are designed for the manual control of motorized valves, mounted between the valve and the actuator. In the engaged position, the actuator operates the valve. In the disengaged position, the handwheel is used to manually operate the valve. Aluminum housing and handwheel. Adjustable stops 90° +/- 5°. Connections on valve and actuator sides standardized to ISO 5211.



AVAILABLE MODELS

RMD-DG : Endless screw reducer.

IP
65



Item	Valve site		Actuator site	
	ISO	Square F	ISO	Square M
DG050-14	F5 / F7	17	F5 / F7	14
DG050-17	F5 / F7	17	F5 / F7	17
DG102A-17	F10 / F12	27	F10 / F12	17
DG102-22	F10 / F12	27	F10 / F12	22
DG102-27	F10 / F12	27	F10 / F12	27
DG140-27	F10 / F14	36	F10 / F14	27
DG140-36	F10 / F14	36	F10 / F14	36
DG165-36	F16	36	F16 / F14	36
DG254-46	F16 / F25	Ø 60	F16 / F25	46

SAFETY COEFFICIENT

Model	Performance	Output torque*
DG050	1:40	300 Nm
DG102	1:36	810 Nm
DG102A	1:36	810 Nm
DG140	1:50	1310 Nm
DG165	1:55	2800 Nm
DG254	1:50	5500 Nm

* Allow for a safety factor of at least 1,8.

For selection on single-acting actuators add : actuator torque, springs compressed + valve torque.

LIMITS OF USE

Degree of protection	IP 65
Ambiant Temperature	- 30°C / +80°C
Output angular stroke	90° +/-5°

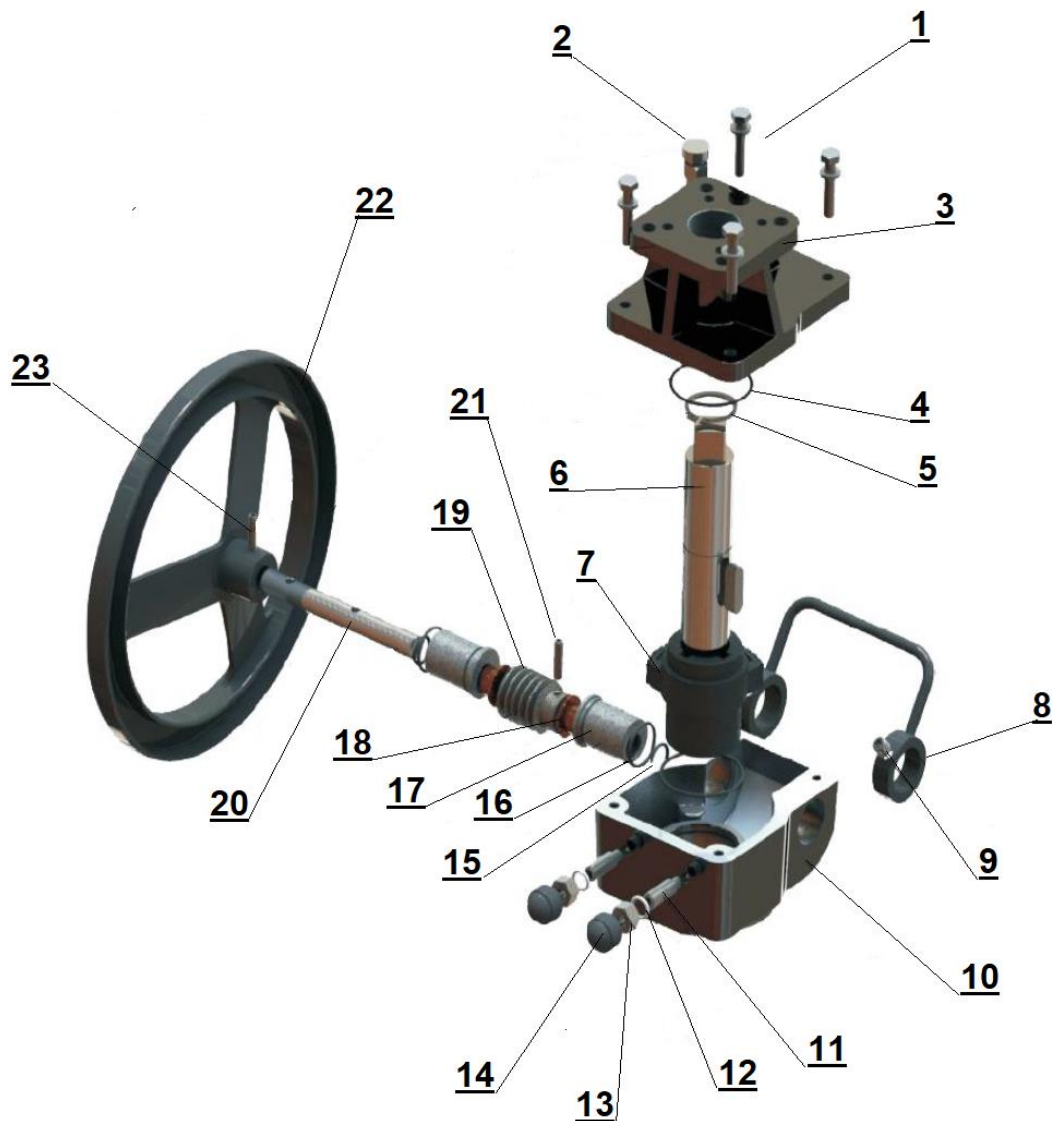
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CONSTRUCTION

N°	Name	Material	N°	Name	Material
1	Bolt (4)	SS 304	14	Adjusting nut sheath (2)	NBR 70
2	The limiting assembly	SS 304	15	O-ring (2)	NBR 70
3	Bracket cap	Aluminium	16	O-ring (2)	NBR 70
4	O-ring (2)	NBR 70	17	Eccentric shaft (2)	45# steel plating
5	Clip spring (2)	Carbon black	18	Bearing (2)	Powder metallurgy
6	Connecting shaft	Carbon steel 45#	19	Worm	Carbon steel 45#
7	Worm gear	Ductile iron	20	Rotating shaft	Carbon steel 45#
8	Wrench	Carbon steel galvanized	21	Pin	Carbon black
9	The set screws	SS 304	22	Hand wheel	Aluminium
10	Body	Aluminium	23	Pin	Carbon black
11	Adjusting bolt (2)	Carbon black		Grease	Standard
12	Adjusting bolt gasket(2)	Galvanized steel		Coating	C4
13	Adjusting nut (2)	Galvanized steel			

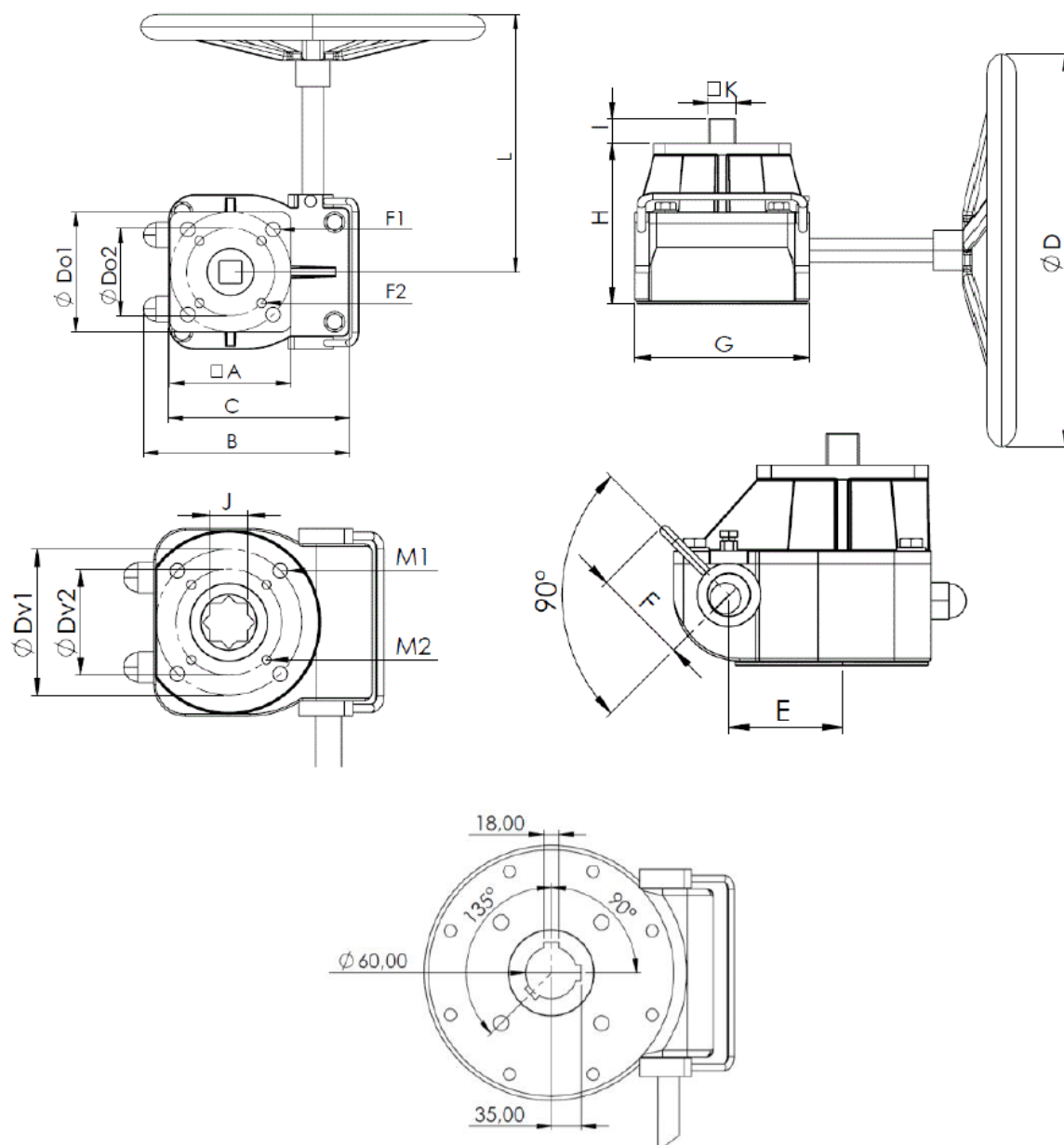


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DIMENSIONS in (mm) and WEIGHT (Kg)



Only for DG-254 shaft connection

Model	A	B	C	ØD	E	F	G	H	I	J x Depth	K	L	Do1	F1	Do2	F2	Dv1	M1 x Depth	Dv2	M2 x Depth	Weight (kg)
DG050	70	125	110	200	44	54	90	100	14.5	17 x 20	14	130	70 (F07)	8.5	50 (F05)	6.5	70 (F07)	M8 x 15	50 (F05)	M6 x 10	2,3
DG102	115	185	160	300	65	70	140	124	21.5	27 x 30	22	180	125 (F12)	13	102 (F10)	11	125 (F12)	M12 x 22	102 (F10)	M10 x 20	5,6
DG102A	115	185	160	300	65	70	140	124	21.5	27 x 30	17	180	125 (F12)	13	102 (F10)	11	125 (F12)	M12 x 22	102 (F10)	M10 x 20	5,6
DG140	140	230	210	400	85	78	190	162	25.5	36 x 40	27	300	140 (F14)	17	102 (F10)	11	140 (F14)	M16 x 25	102 (F10)	M10 x 25	12,5
DG165	165	268	243	600	105	105	230	181	37.5	36 x 40	36	385	165 (F16)	21	140 (F14)	17	165 (F16)	M20 x 35	-	-	25,8
DG254	275	330	283	700	130	130	265	205	49.5	Ø60 x 70	46	400	254 (F25)	17	165 (F16)	21	254 (F25)	M16 x 25	165 (F16)	M20 x 35	40,3

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INSTALLATION

The reducer is placed between the valve and the actuator. It has two ISO 5211 installation planes for the actuator and valve respectively.

FUNCTIONING

- To engage the actuator, pull the latch and move the release handle to the actuator mounting plane. From then on, it is the actuator that operates the valve when it is opened and closed.
- To disengage the actuator, pull the latch and move the disengagement handle to the valve mounting plane. The actuator is disengaged and the valve is operated by the gearbox steering wheel.



SPARE PARTS

Code	Name
982060	Handwheel 200 mm for DG050
982061	Handwheel 300 mm for DG102 / DG102A
982062	Handwheel 400 mm for DG140
982063	Handwheel 600 mm for DG165

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