



DECLUTCHABLE GEAR OPERATOR DG

TECHNICAL FEATURES



Manufacturing program:



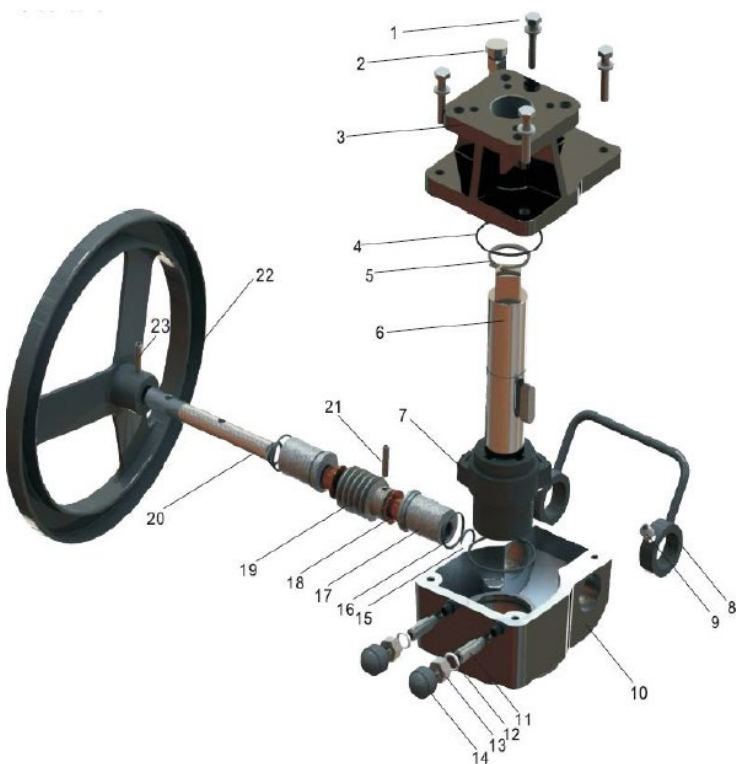
Quality Management:



GENERAL CHARACTERISTICS

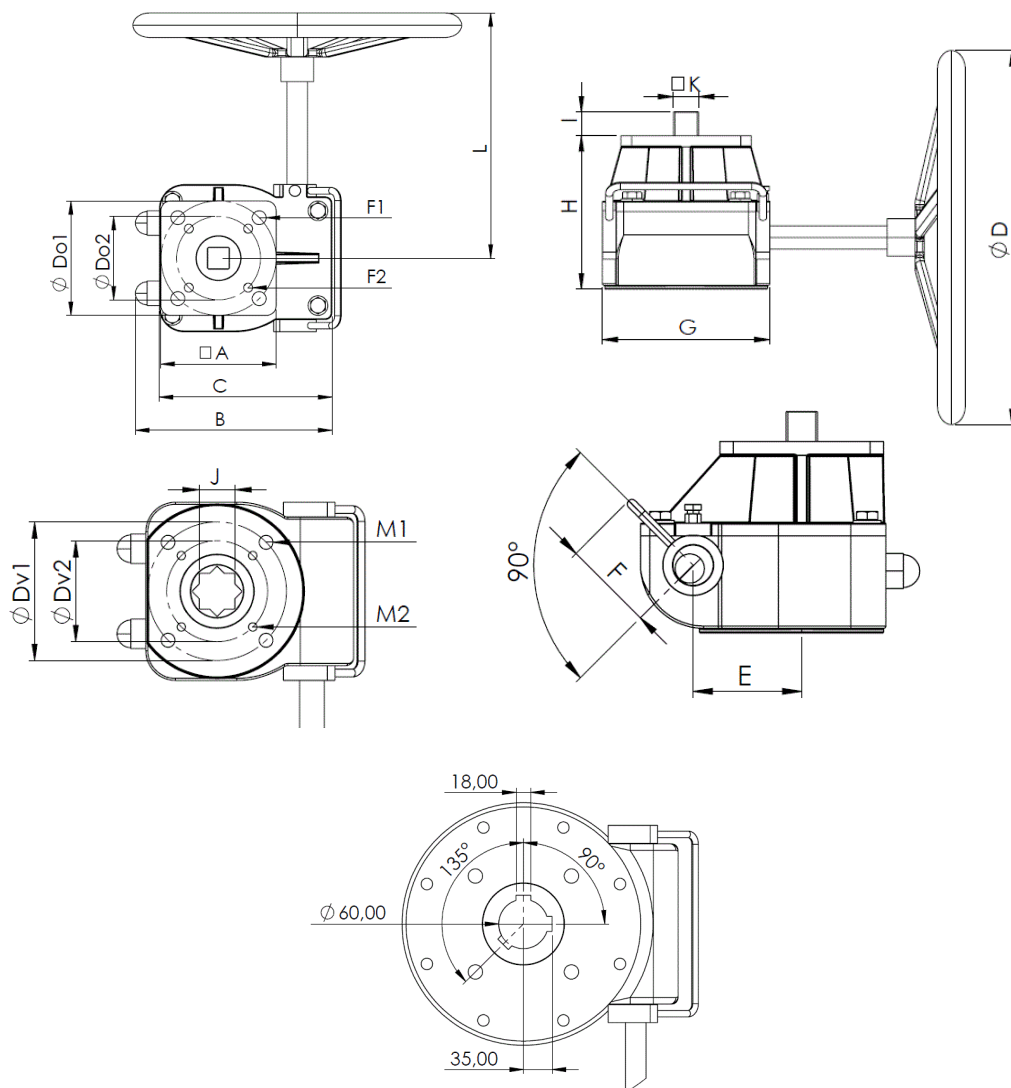
Actreg DGs are installed in between the pneumatic actuator and the valve and provide a means of manually overriding the system

- Direct assembly with ACTREG ASR/ADA actuators
- Aluminium housing
- IP65
- Double adjustment stroke
- TR-CU
- Options on demand:
- C5 and extreme low temperature executions
- 3/2 relief valve



No.	Item	Qty	Standard DG	Extreme low temperature DG...E	C5 anticorrosive DG... C5
1	Bolt	4	SS304	SS304	SS316
2	The limiting assembly	1	SS304	SS304	SS316
3	Bracket Cap	1	Aluminium	Aluminium	Aluminium
4	O-Ring	2	NBR 70	Silicone	NBR 70
5	Clip spring	2	Carbon black	Carbon black	Carbon black
6	Connecting shaft	1	Carbon Steel 45#	Carbon Steel 45#	SS316
7	Worm gear	1	Ductile Iron	Ductile Iron	Ductile Iron
8	Wrench	1	Carbon Steel galvanized	Carbon Steel galvanized	SS316
9	The set screws	1	SS304	SS304	SS316
10	Body	1	Aluminium	Aluminium	Aluminium
11	Adjusting Bolt	2	Carbon black	Carbon black	SS316
12	Adjusting Bolt Gasket	2	Galvanized Steel	Galvanized Steel	SS316
13	Adjusting Nut	2	Galvanized Steel	Galvanized Steel	SS316
14	Adjusting nut sheath	2	NBR 70	PTFE	NBR 70
15	O-Ring	2	NBR 70	Silicone	NBR 70
16	O-Ring	2	NBR 70	Silicone	NBR 70
17	Ecocentric shaft	2	45# Steel plating	45# Steel plating	SS316
18	Bearing	2	Powder Metalurgy	Powder Metalurgy	Powder Metalurgy
19	Worm	1	Carbon steel 45#	Carbon steel 45#	Carbon steel 45#
20	Rotating shaft	1	Carbon steel 45#	Carbon steel 45#	SS316
21	Pin	1	Carbon black	Carbon black	SS316
22	Hand wheel	1	Aluminium	Aluminium	Aluminium
23	Pin	1	Carbon black	Carbon black	SS316
24	Grease		Standard	Low Temperature	Standard
25	Coating		C3	C3	C5

DECLUTCHABLE GEAR OPERATOR DG



Only for DG-254 shaft connection

DIMENSIONS

	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	300	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
DG050A	70	125	110	300	44	54	90	100	14,5	17 X 20	17	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	400	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	400	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	600	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	700	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	800 /1000	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

CONFIGURATION WITH ACTREG ASR/ADA

ADA	DG	ASR	DG
ADA0020F03F05	DG050	ASR0020F03F05Sxx	DG050
ADA0040F05	DG050	ASR0040F05Sxx	DG050
ADA0080F05F07	DG050 ⁽¹⁾ / DG050A	ASR0080F05F07Sxx	DG050 ⁽¹⁾ / DG050A
ADA0130F05F07	DG050 ⁽¹⁾ / DG050A	ASR0130F05F07Sxx	DG050 ⁽¹⁾ / DG050A
ADA0200F07F10	DG050 ⁽¹⁾ / DG050A	ASR0200F07F10Sxx	DG102A
ADA0300F07F10	DG102	ASR0300F07F10Sxx	DG102
ADA0500F10	DG102	ASR0500F10Sxx	DG102
ADA0850F10F12	DG102 ⁽²⁾	ASR0850F10F12Sxx	DG140
ADA1200F10F14	DG140 ⁽³⁾	ASR1200F10F14Sxx	DG165
ADA1750F14	DG140 ⁽³⁾	ASR1750F14Sxx	DG165
ADA2100F16	DG165 ⁽⁴⁾	ASR2100F16Sxx	DG165 ⁽⁴⁾
ADA2500F16	DG254	ASR2500F16Sxx	DG254
ADA4000F16F25	DG254 ⁽⁵⁾⁽⁶⁾	ASR4000F16F25Sxx	DG254 ⁽⁵⁾⁽⁶⁾

(1): Square adapter needed: SS-17-14-22

(2): Square adapter needed: SS-27-22-39

(3): Square adapter needed: SS-36-27-48

(4): Square adapter needed: SS-46-36-54

(5): Square adapter needed: SS-55-46-65

(6): Check with Actreg. Sizing to be checked with valve torque. Special versión DG254_HW1000 available, option under request

PERFORMANCE

MODEL	GEAR RATIO	WHEEL (mm)	MAX. TORQUE CAPACITY GEAR (Nm)	RECOMENDED TORQUE (Nm)
DG050	1:40	300	300	125
DG050A	1:40	300	300	250
DG102	1:36	400	810	500
DG102A	1:36	400	810	250
DG140	1:50	600	1310	1000
DG165	1:55	700	2800	2000
DG254	1:52	800 / 1000 ⁽⁶⁾	5500	4000

GEAR BOX CODIFICATION

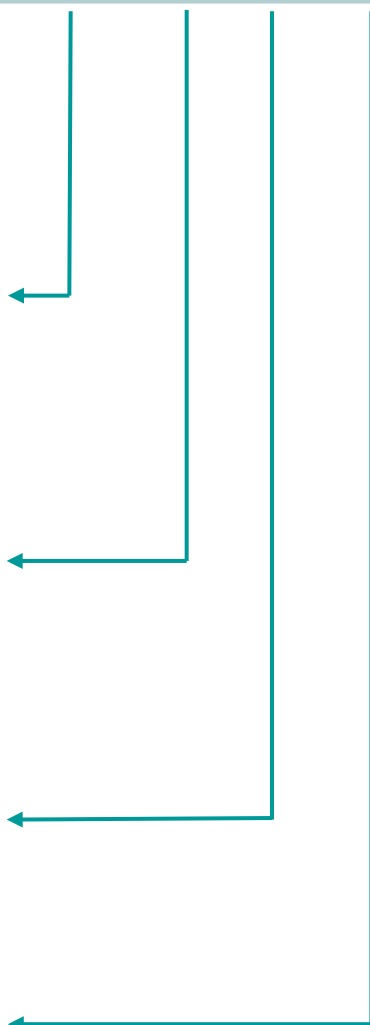
DG 102 - A - L - C5

MODEL	
50 / 50A	F05 (50mm) / F07 (70mm)
102 / 102A	F10 (102mm) / F12 (125mm)
140	F10 (102mm) / F14 (140mm)
165	F14 (140mm) / F16 (165mm)
254	F16 (165mm) / F25 (254mm)

ACTUATOR ADAPTER (Only for 50, 102 Model)	
A	Special actuator adapter (17mm)
-	Standard adapter

WORKING TEMPERATURES	
-	Standard temperature -20 °C + 80 °C
L	Low temperature -40 °C + 80 °C
E	Extreme low temperature -60 °C + 80 °C

CORROSIVE COATING PROTECTION	
-	Protection C3
C5	Protection C5





For further information visit our website

www.actreg.com



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