



## Declutchable Gear Operator

The MAX-GEAR series “MO” declutchable gear operator offers simple and reliable manual positioning of valves, dampers, and other quarter turn devices when overriding an existing actuator.

**Torque range 2655 in-lb through 48675 in-lb**



Pneumatic  
Actuator  
with  
declutchable  
manual  
override



- Fully lubricated
- Long life reliability
- Precision machining
- Epoxy coated housing
- Weather proof housing
- Grease fittings standard
- Large diameter input shafts
- Rugged compact construction
- Mounting dimensions to ISO 5211
- External fully adjustable end stops



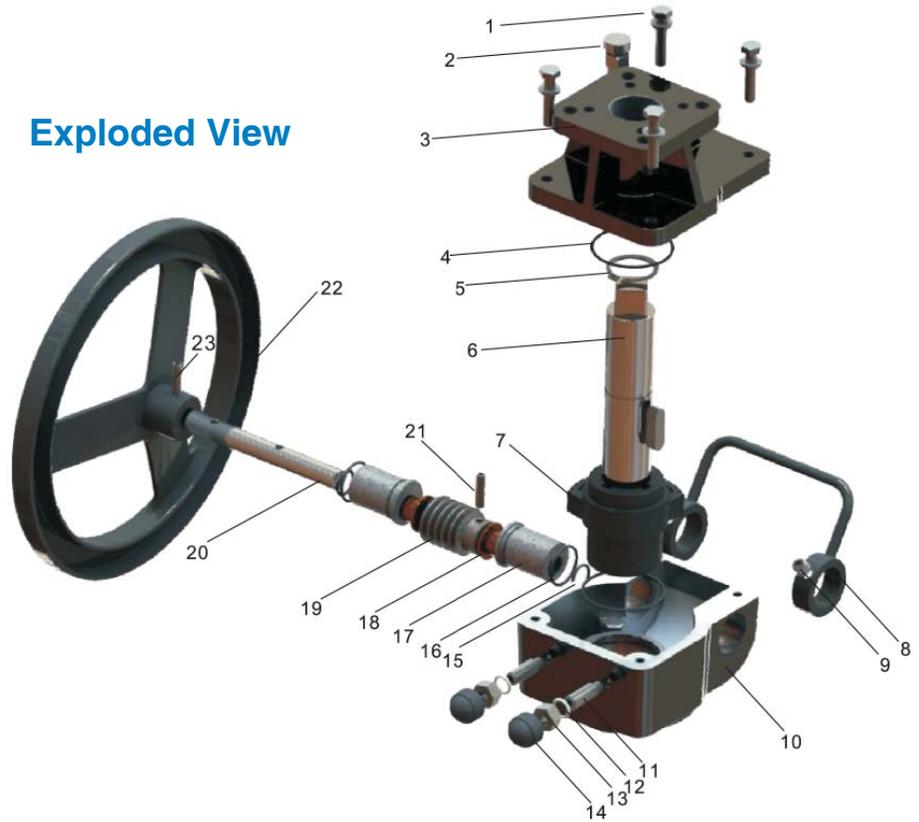
**MAX-GEAR simplifies gear mounting, eliminating costly key-way machining, all sizes utilize ISO square drives or Double D drives**

**[www.maxsealinc.com](http://www.maxsealinc.com)**

## Material/Parts List

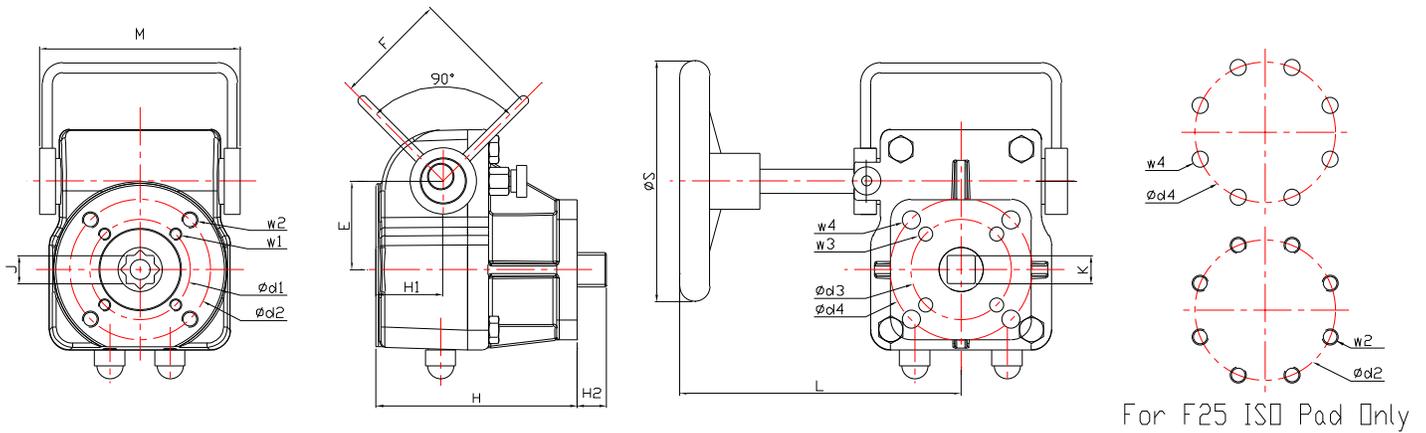
No.	Name	Material
1	Bolt	SS304
2	Limiting Assembly	SS304
3	Bracket Cap	Aluminum
4	O-Ring	NBR
5	Clip Spring	Steel
6	Connecting Shaft	Steel
7	Worm Gear	Ductile Iron
8	Wrench	SS304
9	Set Screw	SS304
10	Body	Aluminum
11	Adjusting Bolt	Steel
12	Adjusting Bolt Gasket	Steel
13	Adjusting Nut	Steel
14	Adjusting Nut Sheath	NBR
15	O-Ring	NBR
16	O-Ring	NBR
17	Eccentric Shaft	Nickel Plated CS
18	Bearing	Powder Metal
19	Worm	Steel
20	Rotating Shaft	Steel
21	Pin	Steel
22	Hand Wheel	Steel, Polyester Coated
23	Pin	Steel

## Exploded View



*Dust proof and water proof: our gear operator is filled with lubricant before leaving the factory. It is solid sealed with valve after installation, meeting IP65 protection grade.*

## Dimensions and Technical Data



Model #	Gear Ratio	Valve Side Mounting											Actuator Side Mounting					Torque in-lb	WGT Lbs						
		E	F	H	H1	H2	J	K	L	M	S	d1	w1	ISO	d2	w2	ISO			d3	w3	ISO	4	w4	ISO
MQ50	40:1	1.74	2.13	3.94	1.22	0.55	0.55	0.55	5.63	4.09	7.87	1.97	M6	F05	2.76	M8	F07	1.97	0.26	F05	2.76	0.33	F07	2655	5.1
MQ70	38:1	2.06	2.76	4.65	1.46	0.67	0.67	0.67	6.97	4.88	7.87	2.76	M8	F07	4.02	M10	F10	2.76	0.33	F07	4.02	0.43	F10	3186	7.7
MQ102	36:1	2.56	2.76	4.88	1.54	0.87	0.87	0.87	7.48	5.51	11.81	4.02	M10	F10	4.92	M12	F12	4.02	0.43	F10	4.92	0.51	F12	7165	12.3
MQ140	50:1	3.35	3.07	6.38	2.17	1.06	1.06	1.06	12.8	7.09	15.75	4.02	M10	F10	5.51	M16	F14	4.02	0.43	F10	5.51	0.67	F14	11590	27.6
MQ165	55:1	4.11	4.13	7.13	2.28	1.42	1.42	1.42	12.55	8.43	23.62	--	--	--	6.50	M20	F16	--	--	--	6.50	0.83	F16	26550	52.9
MQ254	52:1	5.12	4.53	8.07	2.95	1.81	1.81	1.81	15.75	9.06	27.56	6.50	M20	F16	10.0	M16	F25	6.50	0.83	F16	10.0	0.67	F25	48675	81.6



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