



***Installation, Operation & Maintenance Manual
JFG Series Aluminum Worm Gear Operators***

● JFG Series Installation

J flow Control JFG Series manual gear operators are used with Butterfly valves, Ball valves and Damper drives. The JFG Series utilizes ISO 5211 mounting that allows direct mounting to many valve types and brands. The compact size, high mechanical efficiency, self-locking high torque output and corrosion resistant make it very versatile for many applications. fdddfd

Make sure the JFG Series manual gear operator and the valve are in the same position (Both are in the either the Open or Closed position). JFG Series manual gear operators meet the EN ISO 5210 and DIN 3210 mounting interface requirements. This allows the JFG Series to direct mount to many types of valves. If direct mounting is not possible, install brackets, adapter or couplers required for proper adaption. Please check alignment while securely tightening bolts to assure there is no movement between gearbox and valve.

● JFG Series Calibration

JFG Series manual gear operators have travel stop adjustments for both the open and closed position. The travel stop on the left side controls the counter-clockwise position (typically the open position) and the travel stop on the right side controls the clockwise position (typically the closed position) The adjustment is limited to approx +5 degrees & -5 degrees at each end of travel. Below are steps to follow to adjust the end of position fo either the open or closed position.

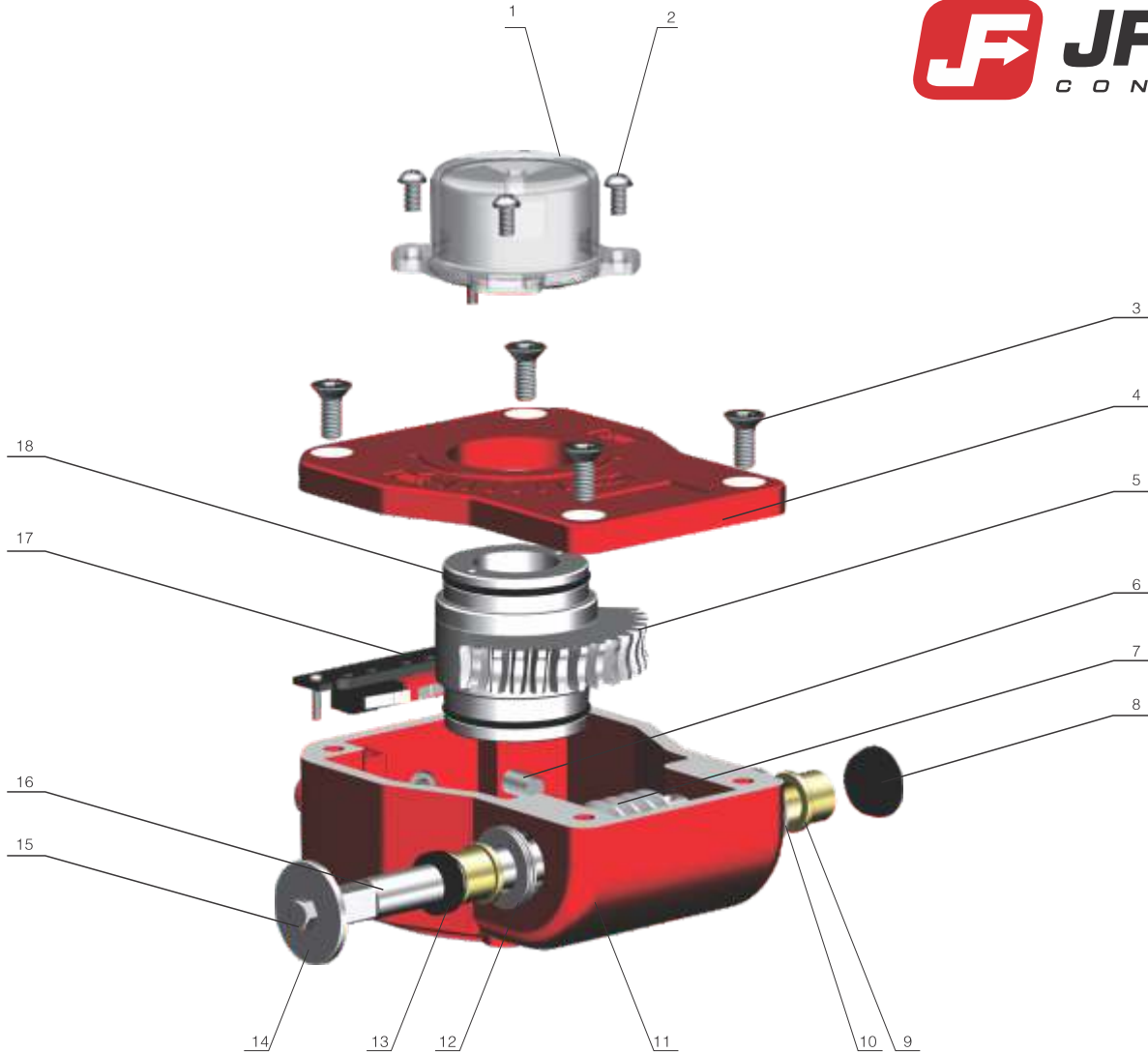
1. Remove the red travel stop cover
2. Loosen the Hex jamb nut
3. Loosen the Allen Set Screw
4. Position gearbox to the proper position.
5. Screw in the Allen Set Screw until you fell resistance
6. Tighten the Hex Jamb But while holding the Allen Set Screw from turning.
7. Replace the Red travel stop covers

● JFG Series Operation

JFG Series manual gear operators are suitable for industrial sites in various climatic regions (working Temperature of -40F to +250 F. The JFG Series is maintenance free and corrosion resistant to the harsh environments (meets IP67 sealing protection / EN 60529 with powder coated housing). Max Torque output range from 1600 In-Lbs to 10,600 In-Lbs.

To close the valve, rotate the Handwheel clockwise until the dome indicator on top is showing "CLOSE". To open the valve, rotate the Handwheel counter-clockwise until the dome indicator is "OPEN".

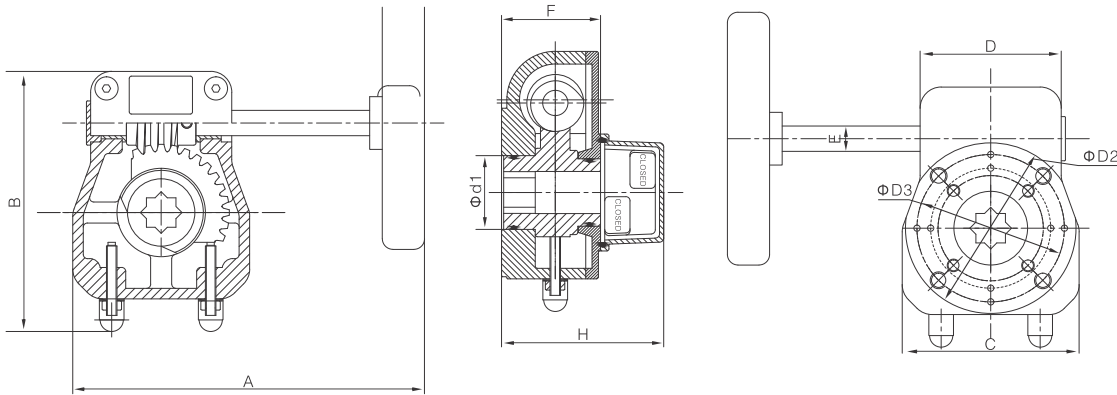
JFG Series Bill Of Material



No

No	Name	Material	No	Name	Material
1	Dome Indicator	Polycarbonate	10	Thrust Bearing	Alloy Steel
2	Screw	304 SST	11	Housing	Aluminum
3	Screw	304 SST	12	Thrust Bearing	Alloy Steel
4	Cover	Aluminum	13	Oil Seal	Rubber
5	Worm Gear	Ductile Iron	14	Washer	304 SST
6	Travel Stop Bolt	304 SST	15	Bolt	304 SST
7	Worm	HS Steel	16	Input Shaft	HS Steel
8	Cover	Buna Nitrile	17	Limit Switch	N/A
9	Sleeve bushing	PEEK	18	O-ring	Buna Nitrile

JFG Series Specification



● Specifications

Dim = Inches

	JFG-F05/F07	JFG-F07	JFG-F07/F10	JFG-F12	JFG-F10/F14
ISO Mounting	F05/F07	F07	F07/F10/F12	F12	F10/F14
MTG Flanged D2	3.19	3.62	4.92	5.51	5.51
Bolt Circle D3	1.969 / 2.756	2.756	2.756/4.016/4.921	4.921	4.016/5.512
Thread	4-M6/4-M8	4-M8	4-M8/4-M10/4-M12	4-M12/4-M16	4-M12/4-M16
ISO Output	0.551 [14MM]	0.669 [17MM]	0.866 [22MM]	1.063 [27MM]	1.417 [36MM]
d1	1.38	1.65	2.17	2.76	2.76
Output Torque In-Lbs	1600	2800	6000	8500	10,600
Weight Lbs	3	4	9	15	15
Handwheel Dia.	4.7 [120MM]	6.3 [160MM]	9.8 [250MM]	11.8 [300MM]	15.8 [400MM]
A	6.50	7.28	9.84	11.81	11.81
B	5.00	5.59	7.48	8.66	8.66
C	3.31	4.02	5.51	6.46	6.46
D	2.60	3.11	4.41	4.72	4.72
E	0.47	0.47	0.63	0.79	0.79
F	1.85	2.05	2.68	2.80	2.80
H	2.87	3.07	4.25	4.37	4.37



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