

MOS- SERIES (DE-CLUTCHABLE / MANUAL OVER-RIDE WORM GEAR BOXES)

The 'MOS' series are De-clutchable Quarter Turn Worm Gear Boxes are used to operate Pneumatically Actuated Valves.

PRODUCT DESCRIPTION:

- High Performance Gear Boxes by Robust Construction & Compact Design.
- Meeting QUALITY, PERFORMANCE and DELIVERY.
- Torque range from 250 Nm to 9800 Nm.
- Output Travel 0° to 90° (±5°).
- Self-locking Mechanism (Worm & Worm Wheel).
- Standard Version : Clockwise Input = Clockwise Output to Close.
- IP-54 Enclosure.
- Working Temperature -20°C to +120°C.
- Graded Cast Iron Housing and Worm Wheel in Ductile Iron.
- High Tensile Fasteners.
- High performance Bearings.
- Sturdy Hand wheel with Black Powder coating for Easy and Smooth Operation.
- Semi-Glossy Black Epoxy Paint as Standard.
- Gear Boxes lubricated with Multi-purpose Grease.
- Gear Box Mounting as per ISO 5211 Std.
- Types of Stem Cavity processed: Round with keyway, Square 90 deg / 45 deg Orientation, Double Dee .

FEATURES:

- Housing, Cover and Worm Wheel material also available in Ductile Iron/Carbon Steel/Stainless Steel/Nickel Aluminium Bronze material or as required as optional.
- Worm and Shaft are also available in Stainless Steel as material as optional.
- Fasteners and Hand wheel also available in Stainless Steel as optional.
- Gear Boxes for Low Temperature and High Temperature applications also available against requirement.
- IP-65/ IP-67 Enclosure Optional.
- RL Version Optional

TESTING FACILITIES:

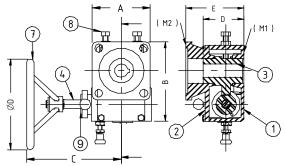
• Test Rig to measure the Performance Factor (P.F)

PERFECT ACTUATORS & CONTROLS PVT. LTD.

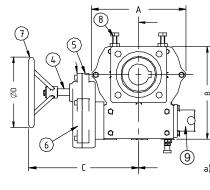
(An ISO 9001 : 2015 Certified Company) B-137/493, INDUSTRIAL ESTATE, GOKUL ROAD. HUBLI - 580 030. INDIA PHONE : 0836 - 2335971, 2210619. FAX : (0836) 2331698 E-Mail : sales@pacplindia.com, info@pacplindia.com. Website : www.pacplindia.com

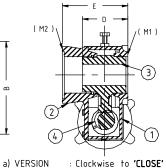


a) Standard Gear Box



b) Gear Box with Secondary Gear Attachment

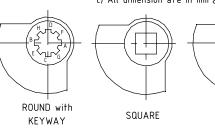




b) IP enclosure : IP-54

SI.	Description	Material *					
1	Housing	CI FG-220					
2	Cover	CI FG-220					
3	Worm wheel	SGI 600/3					
4	Worm / Shaft	EN-8					
5	SG Casing	CI FG-220					
6	SG Gears	EN-8					
7	Handwheel	MS Fab.					
8	Fasteners	8.8 Gr.					
9	Cams	EN - 8					
10	Grease	Multipurpose					

Note - a) *Material optional as required b) Performance Factor achieved after 10 cycles. c) All dimension are in mm & indicative



View Seen From Top at 'Close' Position

D-D

MODEL	RATIO	TURNS TO CLOSE 90°	PERFOMANCE FACTOR ±10%	MAXIMUM OUTPUT TORQUE DIAMETER OF DRIVE BORE		GEAR BOX BASE AS PER ISO:5211 (M1)		PNEUMATIC ACTUATOR BASE AS PER ISO:5211 (M2)		HANDWHEEL Ø D			В	С	D	E	
				Nm	Max.	Min.	Max.	Min.	Max.	mm	(Kg.)						
MOS-01	40 : 1	10	10	250	25*	F05	F07	F05	F07	200	5.0	92	117	252	60	93	
M0S-02	35 : 1	8.75	8	450	28	F07	F10	F07	F10	200	8.0	125	148	256	92	110	
MOS-03	40 : 1	10	10	600	36	F10	F12	F10	F12	250	11.0	153	163	309	98	115	
MOS-04	40 : 1		10	890	40	F10	F12	F10	F12	450	11.0	128	173	331	89	129	
MOS-04A	45 : 1	11.25	11	1610	52	F12	F14	F12	F14	500	16.0	156	187	390	97	153	
MOS-05	48 : 1	12	10	11 F	1900	52	F12	F16	F12	F16	500	30.0	166	205	370	104	160
MOS-06	48 : 1		11.5	3600	70	F14	F16	F14	F16	600	30.0	202	236	480	121	176	
MOS-06A	54 : 1	13.5	13	5000	70	F14	F16	F14	F16	700	48.0	270	266	500	127	182	
MOS-07	54 : 1			7600	90	F16	F25	F16	F25	700	90.0	290	299	523	146	205	
MOS-08	64 : 1	16	16	9800	115	F25	F30	F25	F25	700	133.0	330	346	538	154	214	
MOS-05SGM	110.4 : 1	27.6	27.6	22	1900	52	F12	F16	F12	F14	600	45.0	166	205	480	104	160
MOS-06SGM	110.4 : 1			23	3600	70	F14	F16	F14	F16	600	85.0	202	236	510	121	176
MOS-06ASGM	216 : 1	- 54		5000	70	F14	F16	F14	F16	700	85.0	270	266	530	127	182	
MOS-07SGM	216 : 1		44	7600	90	F16	F25	F16	F25	700	130.0	290	299	560	146	205	
MOS-08SGM	256 : 1	64	62	9800	115	F25	F30	F25	F30	700	165.0	330	- 346	580	154	214	
	384 : 1	96	81		115	F25	F30	F25	F30	700	165.0	330		580	154	214	

 \star – Max. Stem size for F05 Mounting Base – (M2) is ϕ 19.0mm

 \star - Max. Stem size for F07 Mounting Base - (M2) is ϕ 25.0mm