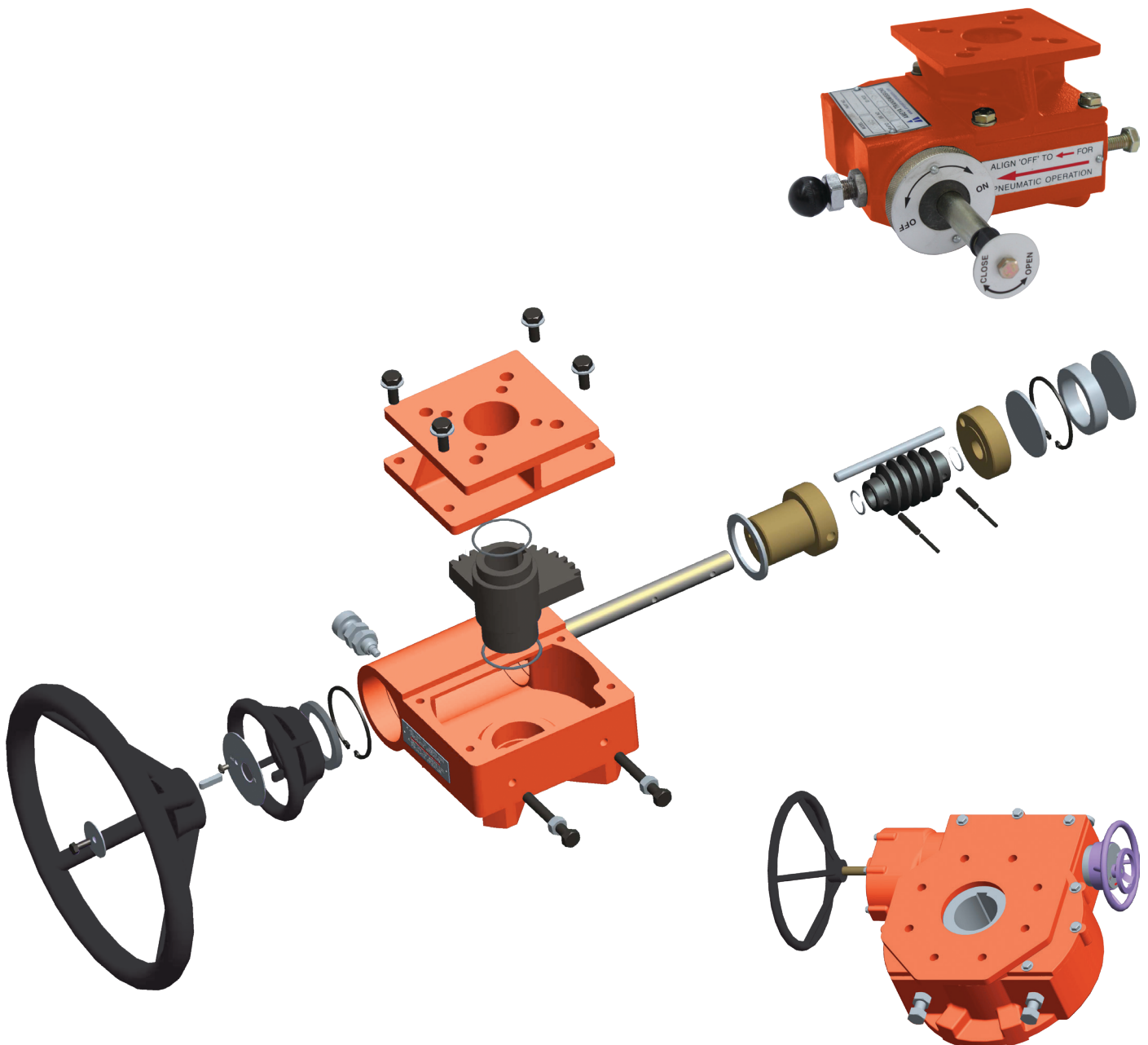


# De-clutchable Quarter-turn Manual Overrides for Pneumatic Actuation

## MOR Series



### Standard Features

- Designed for higher efficiencies and lower input effort on handwheel
- 11 models up to 35,000 Nm torque capacity
- Alloy steel worm shafts
- Rugged design
- High performance axial bearings
- Red oxide primer
- Integral top flange (ISO drive coupling available on request)
- Fully sealed gearbox
- Temperature range: -20 °C (-4 °F) to +120 °C (+248 °F)
- Powder coated handwheels for smooth and easy operation
- Stroke 0-90° (+5° adjustable)
- Smooth and easy clutch – declutch mechanism

### Options

- Housing material options (ductile iron / stainless steel)
- Worm shaft, fasteners and hand wheel material option available in stainless steel
- Worm wheel material option available in aluminum bronze
- High temperature variant up to +200 °C (+392 °F) & low temperature variant up to -52 °C (-61.6 °F) available
- Marine application (all exposed fasteners and shafts in stainless steel)
- Finish painting available on request
- Chainwheel operation available

# De-clutchable Quarter-turn Manual Overrides for Pneumatic Actuation

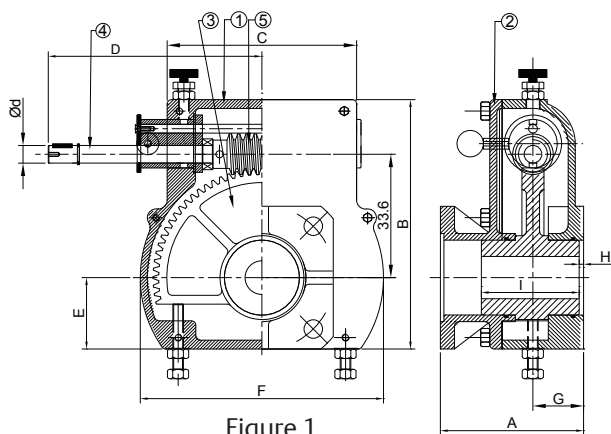
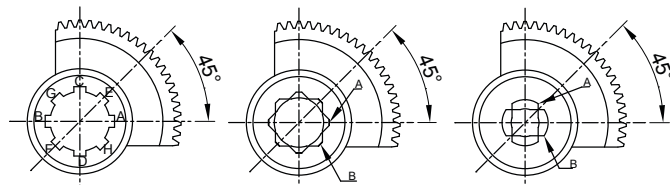


Figure 1



View From Top At Close Position

**Note:**  
Refer to Figure (1) for Models up to "MOR 3.5"  
Refer to Figure (2) for Models above "MOR 3.5"

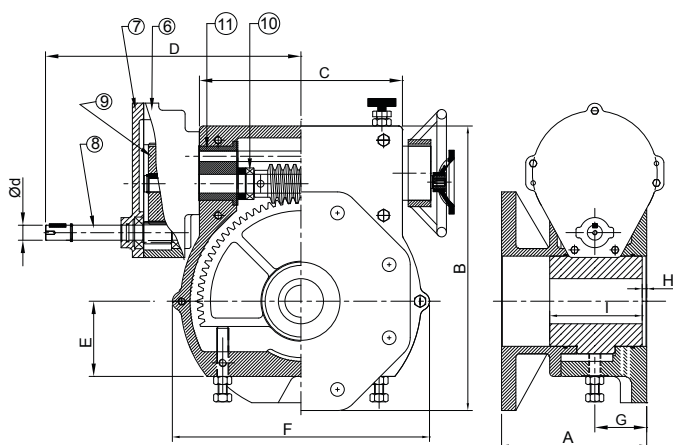


Figure 2

Sr. No.	Description	Material	USA Standard	IS Standard
1	Housing	Cast Iron	ASTM A48-83 30A	IS 210 FG200
2	Cover	Cast Iron	ASTM A48-83 30A	IS 210 FG200
3	Worm Wheel	Ductile Iron	ASTM A70-50 05	SGI 500/7
4	Input Shaft	Carbon Steel	ASTM A576 1045	45C8
5	Worm	Carbon Steel	ASTM A576 1045	45C8
6	Spur Housing	Cast Iron	ASTM A48-83 30A	IS 210 FG200
7	Spur Cover	Cast Iron	ASTM A48-83 30A	IS 210 FG200
8	Spur Pinion	Carbon Steel	ASTM A322 4140	40Cr4Mo3
9	Spur Gear	Carbon Steel	ASTM A322 4140	40Cr4Mo3
10	Thrust Bearing	Special Steel	ASTM A295 52100	-
11	Eccentric Bush	Ductile Iron	ASTM A65-45 12	SGI 400/12
12	Handwheel (Pipe)	Carbon Steel	ASTM A53	IS 2062 Gr B
13	'O' Ring	Buna n	-	Nitrile

Model	Rated Output Torque (Nm)	Mech. Advant. ±10%	Ratio	Turns To Close	Valve Mounting ISO 5211	Max. Drive Bore	Approx. Unit Weight (Kg)	Actuator Mtg. Flange ISO 5211	Recommended Handwheel (mm)	Gear Operator Dimensions									
										A	B	C	D	E	F	G	H	I	Ød
MOR 0.5	250	9	38:1	9.5	F05, F07	25	5	F05, F07	Ø175	83	121	98	126	40	98	28.5	5	48	12
MOR 1	650	9	38:1	9.5	F07, F10, F12	30	9	F07, F10, F12	Ø250	113	175	146	165	58	146	40.5	4.5	75.5	14
MOR 1.5	1000	14.5	60:1	15	F10, F12	40	17	F10, F12	Ø350	146	209	140	144	51	178	51	6	87	15
MOR 2	1500	17	70:1	17.5	F10, F12, F14	50	25	F10, F12, F14, F16	Ø400	150	224	151	230	67	209	44	3	91	16
MOR 2.5	2500	17	80:1	20	F12, F14, F16	60	31	F12, F14, F16	Ø500	162.5	283	215	237	81	276	57.5	9	107	20
MOR 3.5	3500	22	90:1	22.5	F16, F25	80	60	F16 F25	Ø500	185	368	270	265	100	342	69	6	126	20
										193	378								
MOR 5	5000	50	264:1	66	F16, F25	80	70	F16 F25	Ø600	185	368	267	325	100	342	69	10	136	20
										193	379								
MOR 7.5	7500	70	348:1	87	F25, F30	100	105	F25, F30	Ø600	227	457	313	348	100	400	76.5	10	174	20
MOR 10	10000	85	405:1	101.25	F25, F30	100	125	F25, F30	Ø750	227	457	313	435	100	400	76.5	10	174	20
MOR 15	15000	95	460:1	115	F25, F30	110	180	F25, F30	Ø750	235	524.5	331	444	132.5	488	88	10	208	20
MOR 35	35000	260	1282:1	320.5	F25, F30, F35	160	317	F30, F35	Ø750	362	594.5	441	532	146	549	119	12	330	20

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