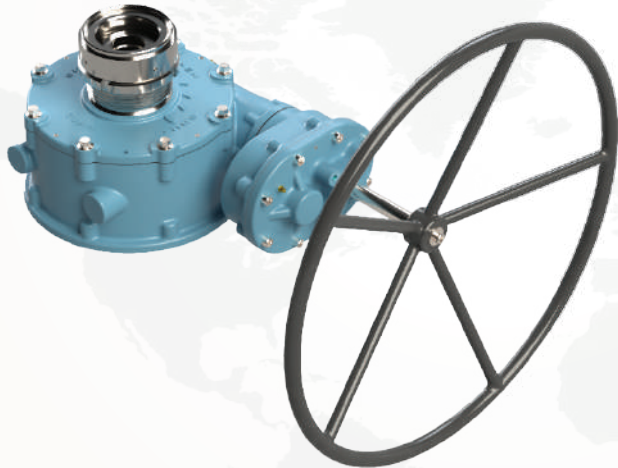




SUSIN I-TORK INDIA PRIVATE LIMITED

An ISO 9001 - 2015 Certified Company



Mechanical Actuators

MTG Series



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SUSIN I-TORK INDIA PRIVATE LIMITED

Susin Group was founded by Mr. Muthukumar in 1992, as a company specialized in the design, manufacture and installation of Valve automation products to different industries. In 2006 the company stepped into marketing to manufacturing, and to focus more on valve automation industrial requirements. We are providing complete automation solution to all kind of Valve Industries where we equipped to support in pneumatic, hydraulic, electrical & mechanical actuators. Susin produces various range of critical products in different applications.

OUR GLOBAL PARTNERS

iTork - Korea

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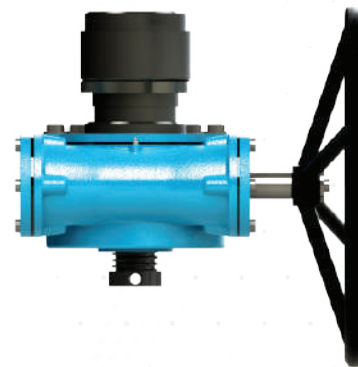
APPLICATIONS

- MTG SERIES MECHANICAL ACTUATORS are designed to have a side mounted handwheel to perform the manual operation of linear valves like Gate & Globe valves which is installed with pneumatic linear actuator.
- Our MTG SERIES MECHANICAL ACTUATORS has Unique Design features to Provide Higher Efficiency through Worm Gear Constructions. This leads to reduce the Efforts to Operate the Valves.
- MTG Series declutchable manual override offers a simple and reliable method for manual operation of linear Valves fitted with Pneumatic linear actuators.
- MTG Gear box is of rugged Construction and Suitable for indoor and outdoor use. It is designed for simple and reliable manual positioning of Valves. Self-Locking Worm Gear brings a long life and safe Operations.



FEATURES

- Ductile iron housing and cover
- Thrust unit provided for smooth load transfer and accurate axial alignment of gears
- Epoxy primer-coated housing and cover for corrosion protection
- Special lubricants applied to O-rings and gears
- Roller-bearing construction for smooth and efficient operation
- Suitable for low stroke to high stroke length applications
- Manual engagement and disengagement possible at any position
- Self-locking worm gear design
- Extended support provided for the handwheel shaft
- Hardened worm and worm gear for enhanced durability
- Easy to operate with comfortable handwheels
- Available with IP-65, IP-67, and IP-67M protection ratings
- Worm supported by self-lubricating bushes and bearings



Engagement Type

The actuator stem can be engaged with the gearbox threaded sleeve through a locking-pin arrangement. The threaded sleeve can be rotated and adjusted to any required position for manual-mode connection.

MOV Flange (Optional) - Motorized Inputs

MTG Worm gear actuator can be Operated through electrical actuators with MOV Flange mounting.

TECHNICAL SPECIFICATION

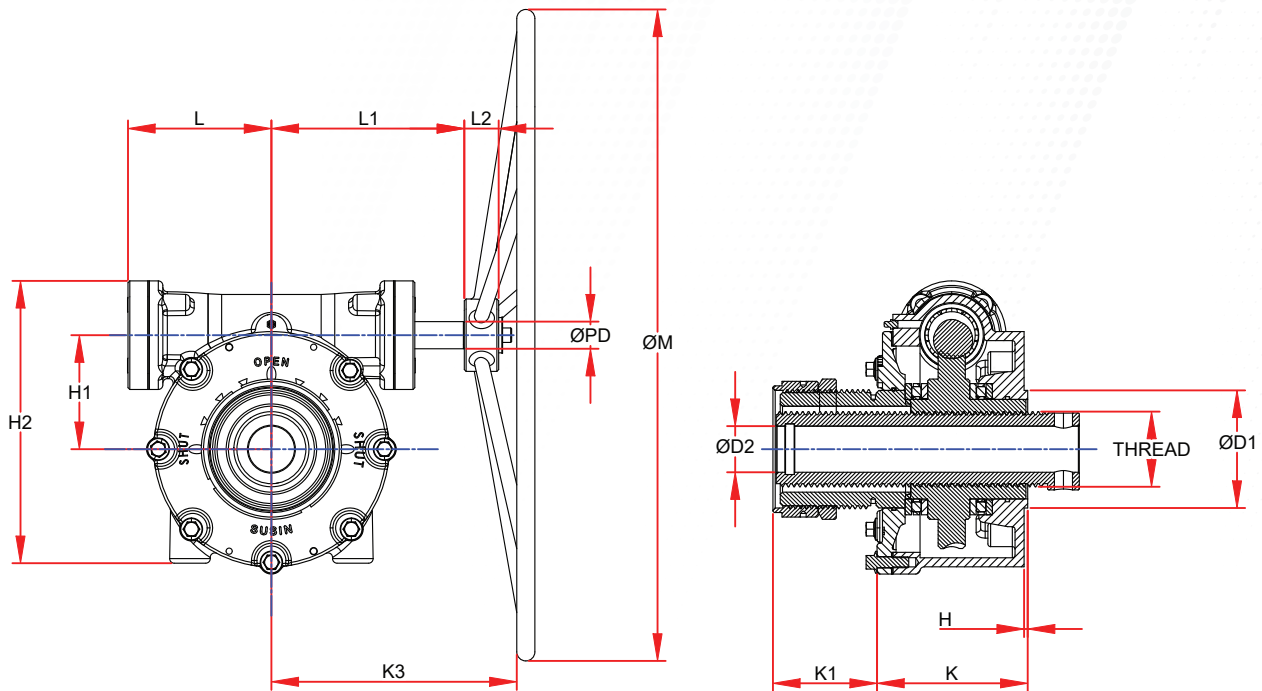
Model No	Output Torque		Output Thrust		Mechanical Advantage ± 10%	Gear Ratio	Valve Mounting ISO 5210		Approx Unit Weight (Kg)	Recommended Hand Wheel Dia (mm)
	Nm	Ft-lbs	Nm	Ft-lbs			Standard	Option		
MTG-100	1000	737.60	160	35969.43	9.20	20:1	F12	F10	14	Ø400
MTG-200	2000	1475.00	240	53954.15	9.50	21:1	F14	F12	27	Ø710
MTG-300	3000	2212.70	290	65194.59	11.50	26:1	F16	F20	37	Ø710
MTG-400	4000	2950.00	380	85427.40	11.50	28:1	F20	F16	43	Ø710
MTG-650	6500	4794.00	600	134885.37	12.00	26:1	F20	F16	65	Ø710
MTG-900	9000	6638.00	870	195583.78	14.00	33:1	F25	F30	88	Ø710
MTG-1200	12000	8851.00	1100	247289.84	14.50	34:1	F30	F25	100	Ø800
MTG-1800	18000	13276.00	1800	404656.10	15.00	31:1	F30	F25	160	Ø850

Model No	Output Torque		Output Thrust		Mechanical Advantage ± 10%	Gear Ratio	Valve Mounting ISO 5210		Approx Unit Weight (Kg)	Recommended Hand Wheel Dia (mm)
	Nm	Ft-lbs	Nm	Ft-lbs			Standard	Option		
MTG-300-1S	3000	2212.70	290	65194.59	25.30	65:1	F16	F20	50	Ø710
MTG-400-1S	4000	2950.00	380	85427.40	25.30	70:1	F20	F16	55	Ø710
MTG-650-1S	6500	4794.00	600	134885.37	33.60	60:1	F20	F16	75	Ø710
MTG-900-1S	9000	6638.00	870	195583.78	39.20	99:1	F25	F30	98	Ø710
MTG-1200-1S	12000	8851.00	1100	247289.84	40.60	102:1	F30	F25	110	Ø710

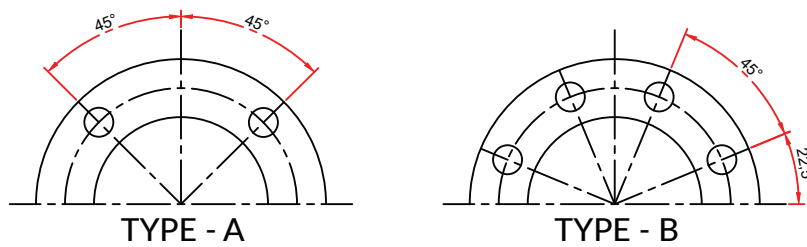
Model No	Output Torque		Output Thrust		Mechanical Advantage ± 10%	Gear Ratio	Valve Mounting ISO 5210		Approx Unit Weight (Kg)	Recommended Hand Wheel Dia (mm)
	Nm	Ft-lbs	Nm	Ft-lbs			Standard	Option		
MTG-900-2S	9000	8851.00	870	195583.78	109.76	297:1	F25	F30	108	Ø710
MTG-1200-2S	12000	11063.00	1100	247289.84	113.68	306:1	F30	F25	118	Ø710
MTG-1800-2S	18000	13276.00	1800	404656.10	109.35	279:1	F30	F25	188	Ø800

Mentioned Specifications & Dimensions are Subject to Change Without Prior Notice for Quality Improvements.

MECHANICAL ACTUATOR - GENERAL



ISO 5210 Flange Mounting Details



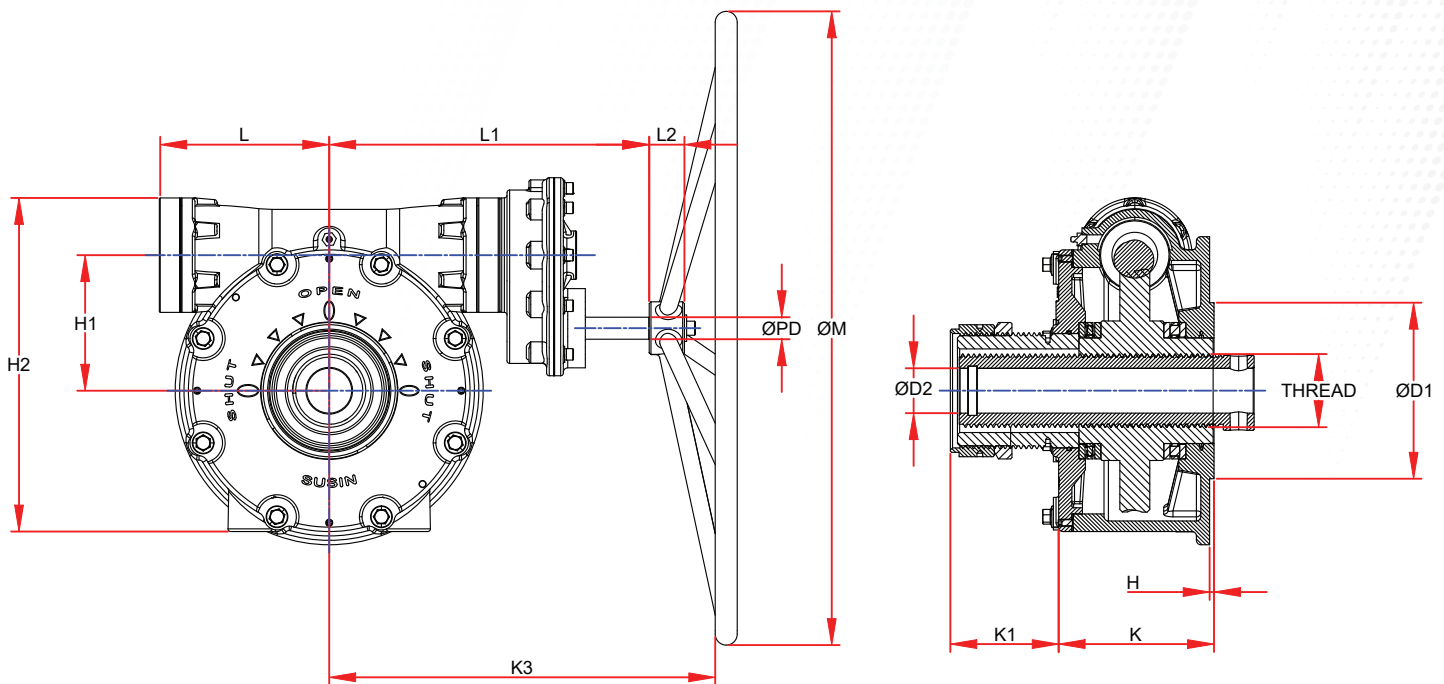
Dimensional Data

All dimensions are in mm

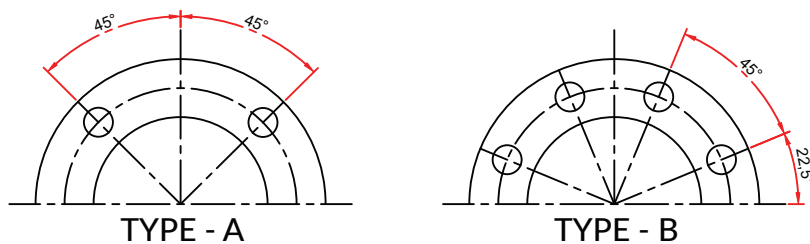
Model No	Type	ØD1	Standard		Option		H	MAX THREAD SIZES	ØD2	H1	H2	K	K1	K3	L	L1	L2	ØPD / □SQ	Hand Wheel Øm
			Flange	PCD	Flange	PCD													
MTG-100	A	85	F12	125	F10	102	3	TR 48x3	30	75	162	93.5	90	300	80	200	25	Ø18	600
MTG-200		100	F14	140	F12	125	3	TR 65x4	45	79.5	210	105.5	90	400	106.5	300	38	Ø20	710
MTG-300		130	F16	165	F20	205	3	TR 75x4	55	100	251	130	100	530	121.5	400	40	Ø25	710
MTG-400		130	F20	205	F16	165	4	TR 95x4	78	117.5	285	125	100	575	133.5	475	40	Ø25	710
MTG-650	B	160	F20	205	F16	165	4	TR 95x4	78	126	281	157	120	650	158.5	550	40	Ø25	710
MTG-900		200	F25	254	F30	298	5	TR 105x4	88	154	380	175	120	650	193	550	40	Ø30	710
MTG-1200		230	F30	298	F25	254	5	TR 115x6	92	168	380	186.5	140	700	185.5	600	40	Ø30	800
MTG-1800		230	F30	298	F25	254	5	TR 165x6	130	190	480	186.5	150	750	220	650	40	Ø35	850

Mentioned specifications & dimensions are subject to change without prior notice for quality improvement

MECHANICAL ACTUATOR - WITH SINGLE STAGE REDUCTION ATTACHMENT



ISO 5210 Flange Mounting Details



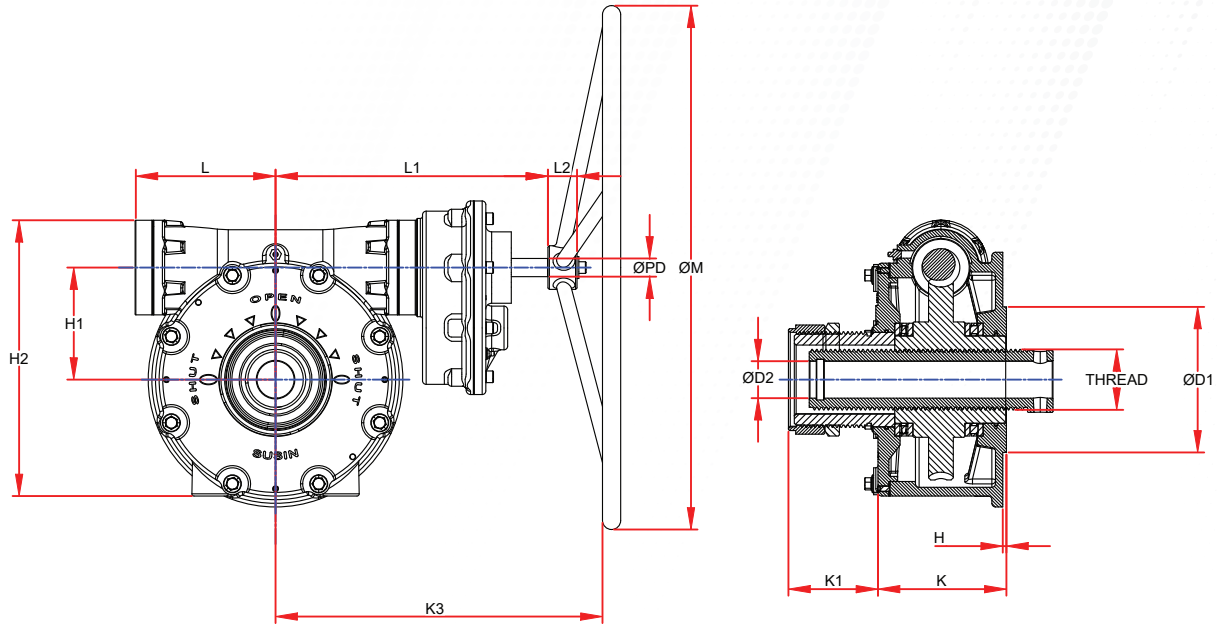
Dimensional Data

All dimensions are in mm

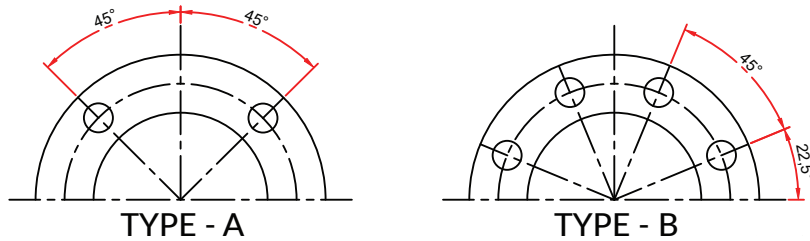
Model No	Type	ØD1	Standard		Option		H	MAX THREAD SIZES	ØD2	H1	H2	K	K1	K3	L	L1	L2	ØPD / □SQ	Hand Wheel Øm
			Flange	PCD	Flange	PCD													
MTG-300-1S	A	130	F16	165	F20	205	3	TR 75x4	55	100	251	130	100	530	121.5	400	40	Ø18	600
MTG-400-1S		130	F20	205	F16	165	4	TR 95x4	78	117.5	285	125	100	575	133.5	475	40	Ø18	600
MTG-650-1S	B	160	F20	205	F16	165	4	TR 95x4	78	126	281	157	120	650	158.5	550	40	Ø25	600
MTG-900-1S		200	F25	254	F30	298	5	TR 105x4	88	154	380	175	120	650	193	550	40	Ø23	710
MTG-1200-1S		230	F30	298	F25	254	5	TR 115x6	92	168	380	186.5	140	700	185.5	600	40	Ø23	800

Mentioned specifications & dimensions are subject to change without prior notice for quality improvement

MECHANICAL ACTUATOR - WITH DOUBLE STAGE REDUCTION ATTACHMENT



ISO 5210 Flange Mounting Details

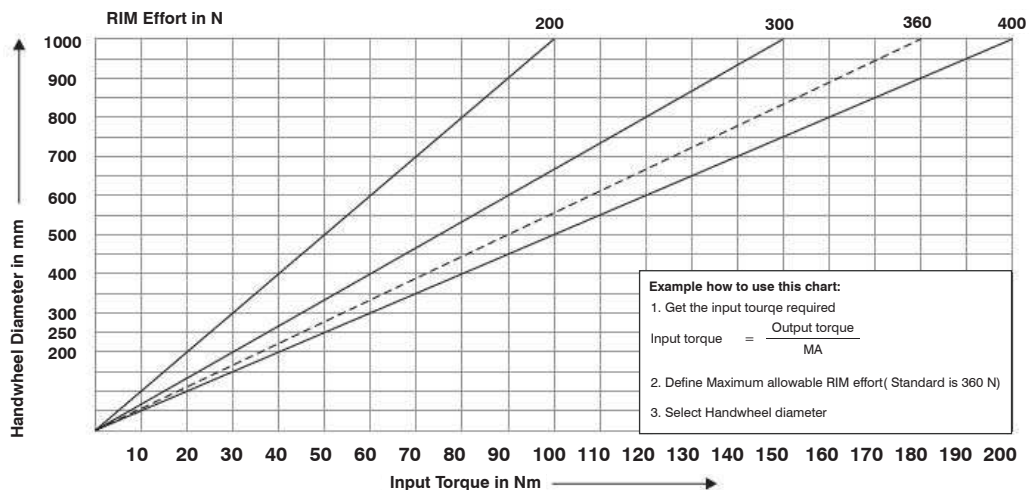


Dimensional Data

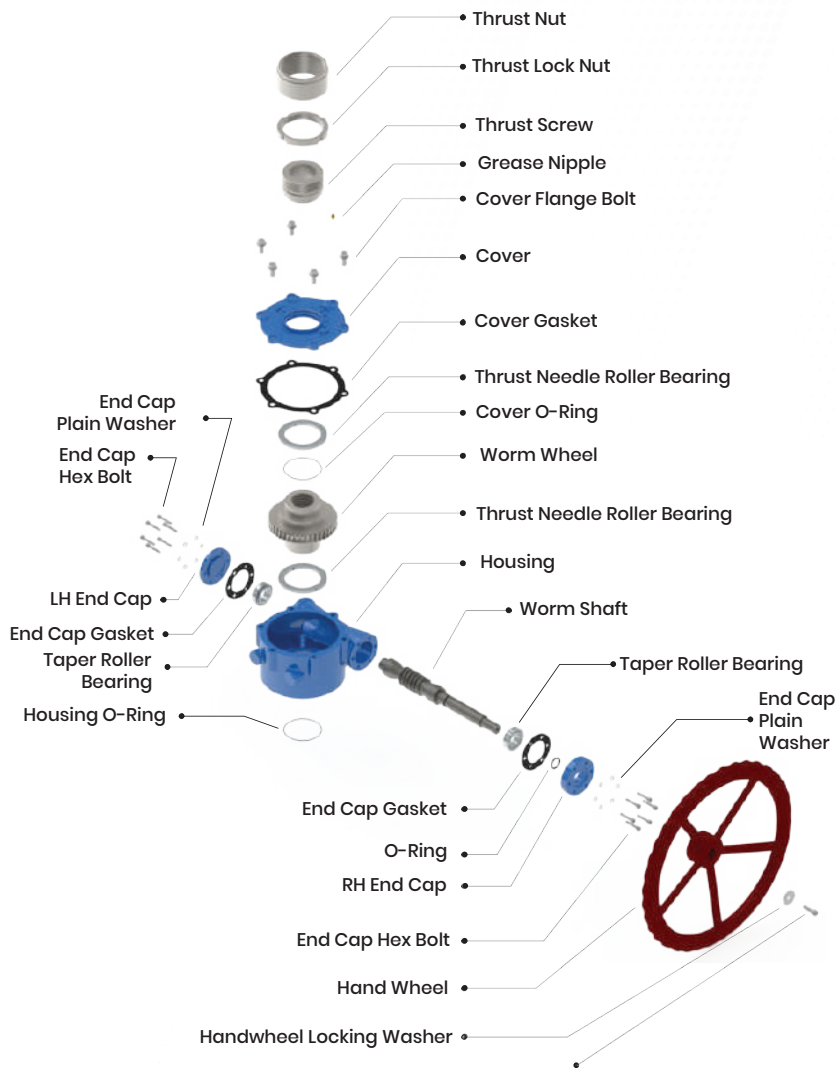
All dimensions are in mm

Model No	Type	ØD1	Standard		Option		H	MAX THREAD SIZES	ØD2	H1	H2	K	K1	K3	L	L1	L2	ØPD / ØSQ	Hand Wheel Øm
			Flange	PCD	Flange	PCD													
MTG-900-2S	B	200	F25	254	F30	298	5	TR 105x4	88	154	380	175	120	650	193	550	40	Ø23	710
MTG-1200-1S		230	F30	298	F25	254	5	TR 115x6	92	168	380	186.5	140	700	185.5	600	40	Ø23	800
MTG-1800-1S		230	F30	298	F25	254	5	TR 165x6	138	190	480	186.5	150	750	220	650	40	Ø25	800

Mentioned specifications & dimensions are subject to change without prior notice for quality improvement

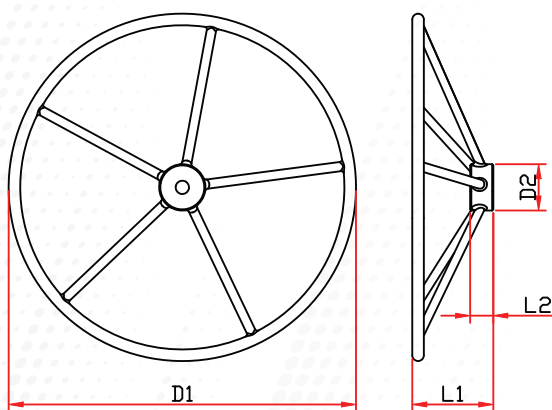


Exploded View – MTG Series



- **High Torque Efficiency:** Optimized gear design ensures maximum torque output with minimal input effort.
- **Backlash-Controlled Mechanism:** Reduced backlash for precise positioning and improved operational accuracy.
- **Sealed Gearbox Assembly:** Fully sealed construction prevents dust and moisture ingress, enhancing reliability in outdoor/harsh environments.
- **Temperature-Resistant Design:** Operates reliably across a wide temperature range for diverse industrial applications.
- **Corrosion-Resistant Fasteners:** All fasteners are coated/plated for long-term corrosion protection.
- **Maintenance-Friendly Design:** Internal components arranged for easy inspection and service without complete disassembly.
- **High Safety Factor:** Designed with adequate safety margins to withstand peak loads and emergency operating conditions.
- **Vibration-Resistant Construction:** Engineered to reduce vibration transmission for smoother operation and longer component life.
- **Optional Mechanical Position Indicator:** Provides clear visual indication of valve position (Open/Close).
- **Customizable Handwheel Sizes:** Handwheel diameter options available based on torque and ergonomic requirements.
- **Environmental-Grade Sealing:** High-quality O-rings and gaskets ensure leak-proof sealing for extended service life.
- **Compliance with International Standards:** Designed to meet relevant industrial standards (e.g., ISO, EN, MSS).
- **Shock-Load Protection:** Internal design accommodates sudden load variations without performance loss.
- **Compact & Rigid Structure:** Space-saving design with high structural rigidity for demanding installations.

All dimensions are in mm



S.NO	WHEEL OD D1	HEIGHT L1	BUSH DIA D2	BUSH LENGTH L2	NO. OF SPOKES
01	100	80	50	25	3
02	200	80	50	25	3
03	250	90	70	35	3
04	300	90	70	35	5
05	400	90	70	35	5
06	500	100	70	35	5
07	600	100	70	35	5
08	710	100	70	35	5
09	800	130	80	45	6
10	900	130	80	45	6
11	1000	130	90	60	6

Other Products



Pneumatic Actuators
(Rotary & Linear types)



Electrical Actuators
(Rotary & Linear types)



Hydraulic Actuators
(Rotary & Linear types)

Susin Group Global Presence



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