

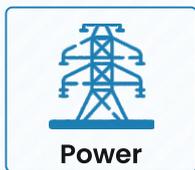


M-torQ Controls India



- **LIMIT SWITCH BOX** • **MANUAL OVERRIDE** • **MANUAL GEARBOX** • **PNEUMATIC ACTUATOR**
- **FIRE PROOFING SOLUTIONS** • **VALVE AUTOMATION WITH ADAPTATION KIT**

**SECTORS
WE SERVE**



Valve Automation

M-torQ Complete Valve Automation Solutions

M-torQ offers comprehensive support for your valve applications. From on-site to workshop, repair or replacement, to actuator integration, and consigned inventory.

M-torQ offers Automated Package for all types of valves such as ball, butterfly, plug, gate and globe valves with all types of actuators i.e single acting, double acting, electric, hydraulic actuators with control accessories like solenoid valves, limit switch, air filter regulator etc. tubed on SS back plate or control cabinet



Limit Switch Box



M-torQ MLS series 5001 Flameproof Limit Switch box

- Twin shaft design, ensuring a complete sealed device.
- Copper free aluminium body and cover with polyester Powder coating. AISI 316L stainless steel body and cover with electro-polished finishing/Glass beading.
- Shatterproof Polycarbonate Dome

- Easily settable cam
- The locked Serrated cams, ensures the secured settings against any vibration
- Cable entry 1/2" NPT, M20x1.5 or 3/4" NPT
- Cable entry Dual cable entry Optional 4 cable entry
- Two different designs available Fix bracket/ Adjustable bracket
- Enclosure Type based on IECEx : Ex d IIC T6 Gb | Exia II T6 Gb

- Standard Namur VDI/VDE-3845 Mounting
- Mounting as per ISO 5211

- IP 68 Up to 2m 1 hour with lab certified as per IS/IEC 60529 : 2001

- Limit switch box with Stainless steel 304 / 316 nameplate

- Ambient Temperature: -20°C to +55°C
- Operating Temperature: -40°C to +85°C
- Approvals : ATEX, IECEx, EAC,CCOE/PESO – IS/IEC60079-0 2017, IS/IEC60079-1 2014, SIL certified up to SIL 3 (Sensors)
- Unique "two piece" dome arrangement.

M-torQ MLS series 5004 Weather proof Limit Switch box

- Twin shaft design, ensuring a complete sealed device.
- Copper free aluminium body and cover with polyester Powder coating. Shatterproof Polycarbonate Dome
- All fasteners & Shaft in stainless steel

- Easily settable cam
- The locked Serrated cams, ensures the secured settings against any vibration
- Cable entry 1/2" NPT, M20x1.5. Cable entry Dual cable entry.
- Two different designs available Fix bracket/ Adjustable bracket
- A special PCB, eliminates all the wiring from the switch element to the terminals. Complete protection against short circuit.

- Standard Namur VDI/VDE-3845 Mounting
- Mounting as per ISO 5211

- IP 68 Up to 1m 30 min with lab certified as per IS/IEC 60529 : 2001

- Limit switch box with plastic sticker

- Ambient Temperature: -20°C to +55°C (-4 to 131°F) (T6)
- Approvals : IP 68, SIL certified up to SIL 3 (Sensors)
- Unique "two piece" dome arrangement.

M-torQ MTSR
Single Acting Actuator

M-torQ MTDA
Double Acting Actuator



- Robust design, corrosion resistant body parts, Heavy duty & high strength materials for pinion shaft and fasteners.
- Torque ranges from 10 Nm to 11350 Nm for double acting and 8 Nm to 8000 Nm for Single acting actuators.
- Stroke 0° to 90° adjustable up to ±5°.
- Enclosure Ip68.
- Mounting standards Conforming to ISO 5211, NAMUR and VDE/VDI 3845.
- Standard star actuator bottom mounting or as per customer requirement.

Standard Temperature : -20° To 80°

- Guide Material - PTFE/Nylon/Delrin
- O ring - NBR

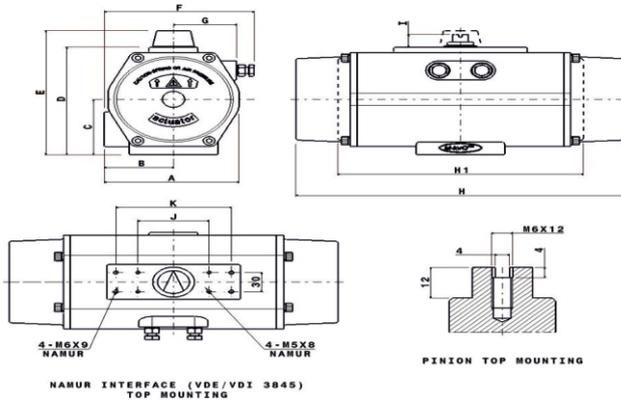
High Temperature : -15° To 260°

- Guide Material - PPSU/Bronze Impregnated PTFE
- O ring - Viton / Silicon

Low Temperature : -50° To 70°

- Guide Material -PTFE/Nylon/Delrin/ Bronze Impregnated PTFE
- O Ring -Low Temp. NBR / Silicon

Dimensions – SR and DA Actuators



Dimensions Table Unit : mm

Model	A	B	C	D	E	F	G	H	HI	I	J	K
MTSR-040	56	33	32	62	81	70	23	120	120	15	80X30	-
MTSR-050	61	37	34	68	87	76	26	165	125	20	80X30	-
MTSR-060	71	42	39	78	97	88	31	200	170	20	80X30	-
MTSR-075	89	52	50	100	126	106	37	240	180	20	80X30	-
MTSR-085	107	56	60	120	146	125	50	90	210	20	80X30	-
MTSR-095	122	65	69	134	160	137	54	310	232	20	80X30	-
MTSR-105	134	72	72	144	170	154	60	325	235	20	80X30	-
MTSR-125	151	78	87	169	195	169	70	372	278	20	80X30	130X30
MTSR-140	170	89	97	188	225	201	81	446	368	30	80X30	130X30
MTSR-160	189	97	106	208	245	222	92	490	404	30	80X30	130X30
MTSR-190	222	112	127	250	287	255	105	570	460	30	80X30	130X30
MTSR-210	232	122	136	275	310	272	112	650	500	30	80X30	130X30
MTSR-240	280	140	155	310	375	296	127	795	580	50	-	130X30
MTSR-270	295	160	175	350	410	325	136	860	620	50	-	130X30
MTSR-300	320	175	195	390	452	357	150	950	700	50	-	130X30
MTSR-350	370	305	225	450	520	420	175	1150	800	50	-	130X30

Output Torque of Double Acting Actuators

	Output Torque for Double Acting Actuators (Unit: - Nm)						
	Air Supply Pressure (Unit: - Bar)						
	3	4	5	6	7	8	8.5
MTDA-040	8	10	13	16	18	20	21
MTDA-050	13	16	20	23	27	31	33
MTDA-060	22	27	33	39	46	52	56
MTDA-075	35	45	56	69	81	94	100
MTDA-085	60	76	92	111	130	149	159
MTDA-095	73	98	124	150	175	201	214
MTDA-105	90	123	157	190	223	256	272
MTDA-125	158	215	271	329	386	444	472
MTDA-140	234	320	410	497	584	671	714
MTDA-160	391	487	615	750	884	1018	1085
MTDA-190	540	700	867	1074	1280	1486	1589
MTDA-210	838	1078	1329	1610	1890	2171	2311
MTDA-240	1280	1641	1329	2448	2879	3310	3525
MTDA-270	1753	2267	2801	3396	3992	4587	4885
MTDA-300	2240	2998	3787	4644	5502	6359	6787
MTDA-350	4162	5325	6538	7913	9288	10663	11351

M-torQ MTGAT (Gearbox) & MTGOR (Manual Override) series Worm gear operators

- Aluminium, Cast Iron Housing & Cover
- Series of models up to 35000 Nm for MTGOR series & 350000 Nm for MTGAT series.
- De clutachable hand wheel.
- Mounting flanges conforming to ISO5211
- Comprehensive gear ratios with spur input reduction section
- Powder coated hand wheel for easy and smooth operation
- Environmental friendly high performance grease
- Chain wheel operation as an optional
- Submergibility to IP67. IP68 as an option.
- Stainless steel - Input shaft, wheel & enclosed screws as an optional
- Pad lockable flange
- NAMUR Mounting
- High temperature variant up to +160°C.
- Low temperature variant up to -55°C.
- Finish painting / coating is available on request



Our Clients



Approval

ISO	ATEX
TR-CU	PESO
BIS	IP 68

Corporate office & Factory Address

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