



MANUAL DECLUTCHABLE
GEAR OVERRIDES

UT-ZM SERIES

ISO 9001:2008

www.unitorq.com



For 20 years, UniTorq has been the clear leader in the actuation industry. Our UT-ZM series of Manual Declutchable Gear Overrides follows that tradition of excellence, providing manual override capabilities whenever air supply or power to a pneumatic actuator is lost. Our gear overrides enable users to safely and easily position their valves - specifically enabling a 90° turn in either direction - whenever it becomes necessary to manually override a double acting or spring return actuator.

- **Corrosion Resistant** - The UT-ZM is ideal for harsh environments and is manufactured to provide high levels of corrosion resistance. Each unit is enclosed in a dust and weatherproof housing that conforms to IP67 standards. A powder epoxy coating is applied to the housings, and all gears are pre-lubricated with a high-quality, proprietary lubricant. The sturdy construction includes a stainless steel declutch lever and die cast handwheels.
- **Wide Range of Sizes and Torque** - UniTorq's UT-ZM gear override is available in various models with torque outputs ranging from 1,770 to 61,955 in. lbs. Units are offered with ISO bolt patterns for a quick, custom and direct-mount fit between the actuator and the valve. Other bolt mounting patterns are available upon request.
- **Easy to Use** - The UT-ZM is engineered to make operation easier. When an operator needs to engage or disengage the override, they simply pull the spring-loaded pin while rotating the declutch lever. When the bar reaches the proper position it automatically locks into place. There are no knobs to turn or keys to misplace. With its internal self-locking mechanism the UT-ZM is one of the safest and easiest to operate overrides on the market.
- **Lockout Device** - UniTorq recommends a direct mount lockout solenoid device (Model # NV62L) designed to be used in conjunction with the actuator to relieve air pressure before engaging the override.
- **Padlock Option** - The addition of the Padlock Kit allows placement of a lock to prevent unintended operation.

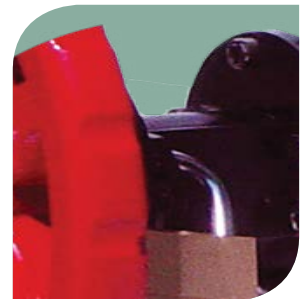
Standard Self Locking Design

The pin on the UT-ZM is spring-loaded. The operator pulls the pin up and adjusts the declutch lever until it reaches the self-locking position.



Optional Padlock Kit

A padlock attached to the override provides an additional layer of protection against unintended start-up from the control room.



Designed for Safety

Block and Vent Air With The Isolation Safety Option

The Isolation Safety Option provides an innovative, intelligent solution to block and vent air from the actuator. This eliminates air resistance and makes operation of the override safer and easier. The built-in porting not only eliminates the need to install extra tubing, tees, valves and fittings, it releases air automatically. This provides an efficient, more reliable approach to isolating a valve during manual operation.

Auto Mode



The UT-ZM equipped with the Isolation Safety Option has 3 ports:

- P** = Pressurized Air Port
- A** = Actuator/Solenoid Port
- R** = Released Air Port

In auto mode, the actuator drives the valve using air entering through the Pressurized Air port and the Actuator/Solenoid port.

Manual Mode



To switch to manual mode, the declutch bar is lifted and air is automatically released from the Actuator/Solenoid port and blocked from entering through the Pressurized Air Port. This simple and efficient release of air makes operation of the gear easier and safer.

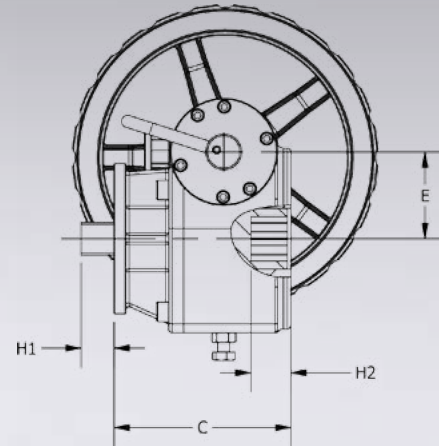
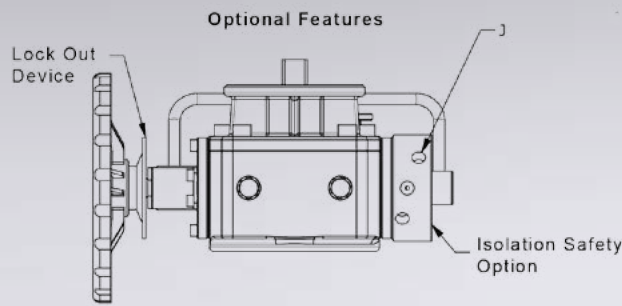
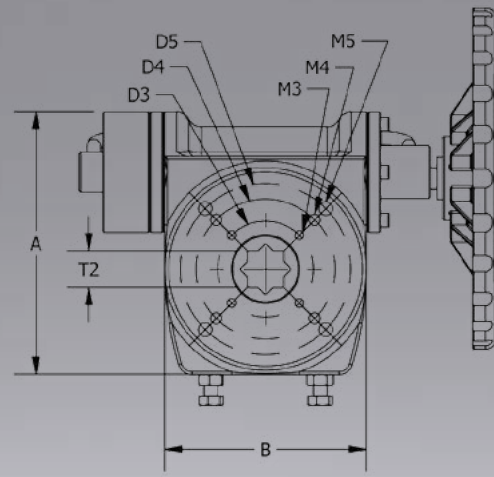
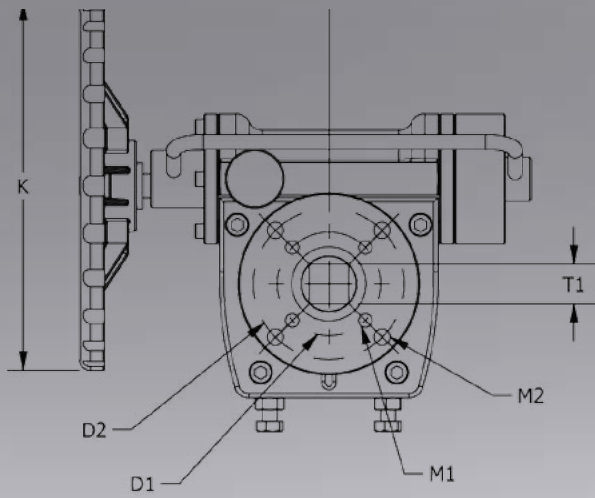
Isolation Safety Option



Standard Manual Override



If the Isolation Safety Option is not required the standard manual override is available.



Override	Input Torque in. lb	Output Torque in. lbs	A	B	C	D1	D2	D3, D4, D5	E	L	M1
UTZM28	194 in. lbs	1770 in. lbs	4.724 in.	3.973 in.	4.094 in.	F05	F07	F05, F07	1.752 in.	4.724 in.	0.276 in.
UTZM49	371 in. lbs	5310 in. lbs	7.559 in.	5.827 in.	5.709 in.	F07	F10	F07, F10	2.795 in.	6.890 in.	0.354 in.
UTZM65	849 in. lbs	10620 in. lbs	7.559 in.	5.827 in.	5.079 in.	F07	F10	F07, F10, F12	2.795 in.	7.126 in.	0.354 in.
UTZM75	885 in. lbs	17701 in. lbs	10.236 in.	7.717 in.	7.539 in.	F14	-	F14	4.232 in.	10.709 in.	0.669 in.
UTZM89	2035 in. lbs	35402 in. lbs	13.150 in.	10.039 in.	7.126 in.	F16	-	F12, F16	4.843 in.	10.827 in.	0.866 in.
UTZM95	973 in. lbs	61955 in. lbs	15.315 in.	11.693 in.	9.803 in.	F16	F25	F16, F25	6.142 in.	16.475 in.	0.866 in.

Override	M2	M3	M4	M5	T1	T2	H1	H2	J	K	Actuators
UTZM28	0.354 in.	M4 x 0.7	M8 x 1.25	-	17 mm	17 mm	0.551 in.	0.984 in.	1/4" NPT	7.874 in.	75, 105
UTZM49	0.433 in.	M8 x 1.25	M10 x 1.5	M12 x 1.75	22 mm	27 mm	0.748 in.	1.18 in.	1/4" NPT	7.874 in.	157, 257, 331
UTZM65	0.433 in.	M8 x 1.25	M10 x 1.5	M12 x 1.75	27 mm	27 mm	0.748 in.	1.18 in.	1/4" NPT	11.811 in.	406, 633
UTZM75	-	M16 x 2.0	-	-	36 mm	36 mm	1.339 in.	1.575 in.	1/4" NPT	15.748 in.	1009, 1260
UTZM89	-	M12 x 1.75	M20 x 2.5	-	46 mm	46 mm	1.77s in.	6.929 in.	1/4" NPT	27.559 in.	1831, 2928
UTZM95	0.512 in.	M20 x 2.5	M16 x 2	-	46/55 mm	46 mm	1.772 in.	1.890 in.	1/2" NPT	19.685 in.	



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