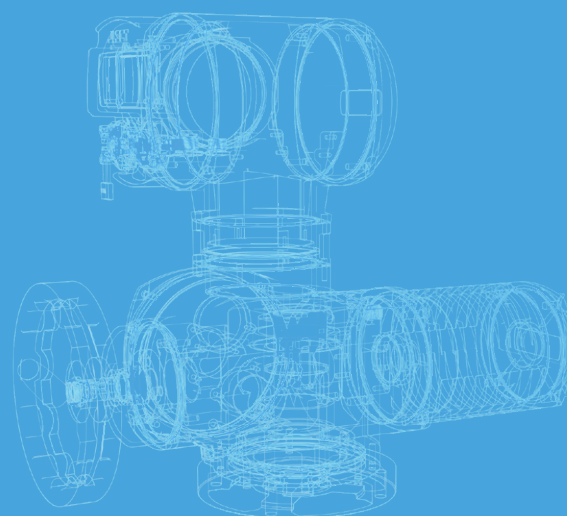


UTM Actuator Catalog

VALVE INTELLECTUAL TECHNOLOGY EXPERT

2026



PRODUCT OVERVIEW

The UTM series valve electric actuator is a new-generation product independently developed by our company. Featuring a modular design concept and advanced manufacturing technology, it boasts advantages such as a compact structure, small size, aesthetic appearance, and stable, reliable operation.

The UTM valve electric actuator is a multi-turn electric actuator designed for valves where the closure member performs linear motion, such as gate valves, globe valves, diaphragm valves, and sluice gates. It is capable of opening, closing, or regulating these valves.

The performance of the UTM valve electric actuator complies with ISO 22153:2020 Electric actuators for industrial valves - General requirements, and its flameproof performance meets the standards of IEC 60079-1:2014 Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures "d".



MAIN TECHNICAL PARAMETERS

Power Supply	3-phase AC	AC380 $\pm 10\%$, 50Hz (Optional 220V ~ 480V, 60Hz)
	1-phase AC	AC220 $\pm 10\%$, 50Hz (Optional 110V ~ 220V, 60Hz)
Protection Class		IP66/IP68(3m/72h)
Environmental Requirements	Temperature	-20 ~ +60°C (Optional -40~60°C)
	Relative Humidity	$\leq 90\%$ (+25°C)
Explosion-proof Marking		Ex db IIC T4 Gb, Ex tb IIIC T130 °C Db
Working Duty	Basic/Open-Close (Pro)	S2-15min, Class A
	Modulation (Plus)	S4-25%, Class C
Insulation Class		Class F (Optional Class H)
Corrosion Resistance Level		C5M

FUNCTION CONFIGURATION

"-"Mean no such function, " ☐ "Mean optional function, " ☒ "Mean has such function

Function configuration	Basic	Pro	Plus
Non-intrusive commissioning	-	☒	☒
Manual open-close operation	☒	☒	☒
Remote/Local control switch	-	☒	☒
LCD status display	-	☒	☒
Separately mounted control	-	☐	☐
Plug terminals	☒	☒	☒
Mechanical position limit switch	☒	-	-
Absolute encoder limit positioning	-	☒	☒
Mechanical torque limit protection	☒	☒	☒
Electronic torque limit protection	-	☒	☒
Phase sequence self-identification	-	☒	☒
Power phase-loss protection	-	☒	☒
Over and under voltage protection	-	☒	☒
Motor overheating protection	☒	☒	☒
Motor overload and short circuit protection	-	☒	☒
Remote open-close control	-	☒	☒
Remote analog modulation control (4-20mA)	-	-	☒
Valve position output (4-20mA)	-	☒	☒
6 configurable relay outputs	-	☒	☒
hand-held remote control	-	☒	☒
Fieldbus control	-	☐	☐
Valve position display without power	-	☐	☐
Automatic temperature control heating	-	☐	☐
Fault Diagnosis System	-	☒	☒

MECHANICAL PARAMETER

Model	Torque	Speed	Flange	Maximum turns	Hand wheel	Manual Ratio	Reference weight	
							Basic	Pro/Plus
/	Nm	Rpm	/	turns	mm	i	kg	
UTM06	30~60	25 ⁽¹⁾	F07/F10/J2	1000	200	1:18	26-30	33-37
		50				1:9		
		100				1:9		
UTM12	60~120	25 ⁽¹⁾	F10/J2	1000	200	1:18	27-32	35-39
		50				1:9		
		100				1:9		
UTM16	80~160	25 ⁽¹⁾	F10/J2	1000	200	1:18	28-33	36-40
		50				1:9		
		100				1:9		
UTM24	120~240	25 ⁽¹⁾	F12/F14/J3	800	200	1:17	35-43	42-50
		50				1:8.5		
		100				1:8.5		
UTM32	160~320	25 ⁽¹⁾	F14/J3	800	200	1:17	36-44	43-51
		50				1:8.5		
UTM50	250~500	25 ⁽¹⁾	F14/F16/J4	500	260	1:52	59-75	66-82
		50				1:26		
UTM100	500~1000	25 ⁽¹⁾	F16/F25/J5	500	260	1:52	62-97	69-104

Note: (1)Self-locking can be achieved via a worm gear mechanism.

ELECTRICAL PARAMETERS

Three-phase power supply is applicable to: 380V/400V/415V (50Hz), 460/480V (60Hz)

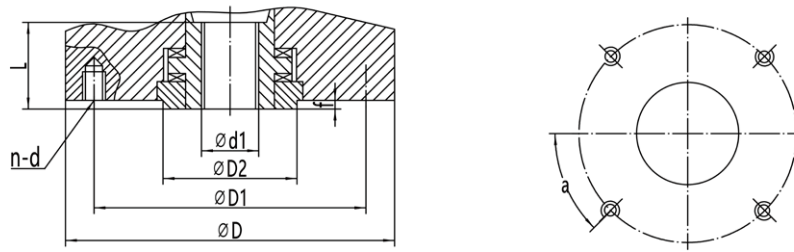
Model	Speed	Max Mechanical Power	Motor Model	Motor Speed	Maximum Motor Power	Current (30% load)	Current (100% load)	Motor Efficiency	Motor Power Factor
/	Rpm	kW	/	Rpm	kW	A	A	%	cosφ
UTM06	25	0.15	ZDM15-4	1400	0.8	1.2	1.5	65	0.67
	50	0.3	ZDM15-4		0.8	1.5	2.5	65	0.67
	100	0.6	ZDM30-2	2800	2	1.9	2.9	71	0.75
UTM12	25	0.3	ZDM15-4	1400	0.8	1.5	2.5	65	0.67
	50	0.6	ZDM30-4		1.6	1.9	3.0	70	0.71
	100	1.2	ZDM30-2	2800	2	2.0	4.4	71	0.75
UTM16	25	0.4	ZDM30-4	1400	1.6	2.2	3.0	70	0.71
	50	0.8	ZDM30-4		1.6	2.3	3.3	70	0.71
	100	1.6	ZDM30-2	2800	2	2.7	5.4	71	0.75
UTM24	25	0.6	ZDM30-4	1400	1.6	2.3	4.5	70	0.71
	50	1.2	ZDM35-4		2.4	3.4	5.9	72	0.72
	100	2.4	ZDM35-2	2800	3	3.9	10.1	73	0.77
UTM32	25	0.8	ZDM35-4	1400	2.4	3.5	6.3	72	0.72
	50	1.6	ZDM35-4		2.4	3.9	10.7	72	0.72
UTM50	25	1.3	ZDM100-4	1400	4	5.4	7.7	74	0.72
	50	2.5	ZDM100-4		4	5.8	14.2	74	0.73
UTM100	25	2.5	ZDM100-4	1400	4	6.1	12.6	74	0.72

Single-phase power supply is applicable to: 220V (50Hz/60Hz)

Model	Speed	Max Mechanical Power	Motor Model	Motor Speed	Maximum Motor Power	Current (30% load)	Current (100% load)	Motor Efficiency	Motor Power Factor
/	Rpm	kW	/	Rpm	kW	A	A	%	cosφ
UTM06	25	0.15	ZDM15-4S	1400	0.8	2.1	2.5	65	0.67
	50	0.3	ZDM30-4S		2	2.5	4.3	68	0.69
UTM12	25	0.3	ZDM30-4S	1400	2	2.5	4.3	68	0.69
	50	0.6	ZDM35-4S		2.4	3.3	5.1	70	0.71
UTM16	25	0.4	ZDM30-4S	1400	2	3.7	5.1	68	0.69
	50	0.8	ZDM35-4S		2.4	3.9	5.6	70	0.71
UTM24	25	0.6	ZDM35-4S	1400	2.4	3.9	7.7	70	0.71
UTM32	25	0.8	ZDM35-4S	1400	2.4	5.9	10.7	70	0.71

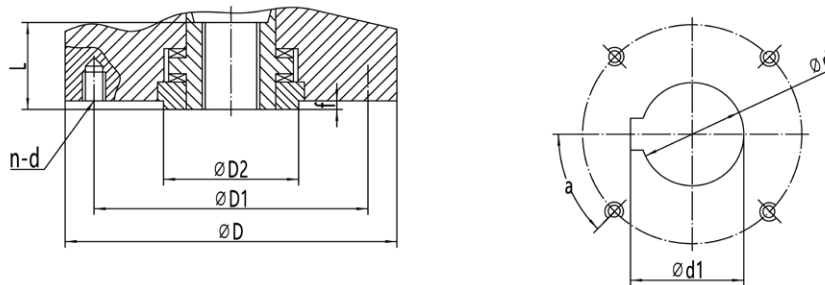
VALVE CONNECTION

Standard: ISO5210-A



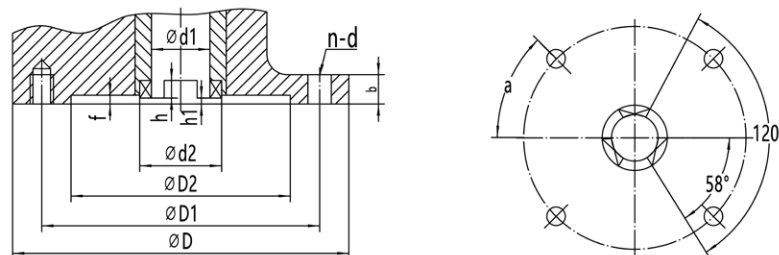
Model	Flange	D	D1	D2	f	d1(max)	n-d	L	α
UTM06	F07	90	70	55	3	Tr 20	4-M18	30	45°
UTM06/12/16	F10	125	102	70		Tr 28	4-M10	40	
UTM24	F12	150	125	85		Tr 32	4-M12	50	
UTM24/32	F14	175	140	100	4	Tr 40	4-M16	55	
UTM50	F14	175	140	100		Tr 48	4-M16	55	22.5°
UTM50/100	F16	210	165	130	5	Tr 48	4-M20	70	
UTM100	F25	300	254	200		Tr 60	8-M16	90	

Standard: ISO5210-B



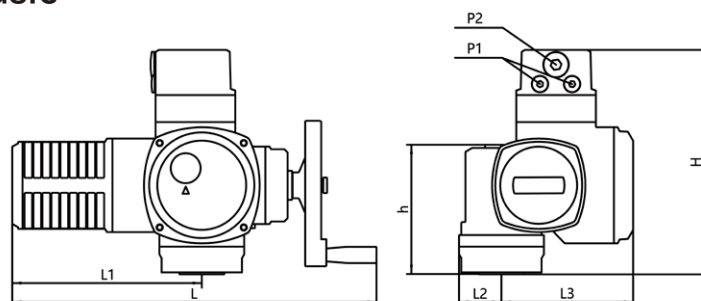
Model	Flange	D	D1	D2	f	d1(max)	d(max)	n-d	L	α
UTM06	F07	90	70	55	3	20	15	4-M18	30	45°
UTM06/12/16	F10	125	102	70		28	20	4-M10	40	
UTM24	F12	150	125	85		32	25	4-M12	50	
UTM24/32	F14	175	140	100	4	40	30	4-M16	55	
UTM50	F14	175	140	100		48	40	4-M16	55	22.5°
UTM50/100	F16	210	165	130	5	48	40	4-M20	70	
UTM100	F25	300	254	200		60	50	8-M16	90	

Standard: JB2920



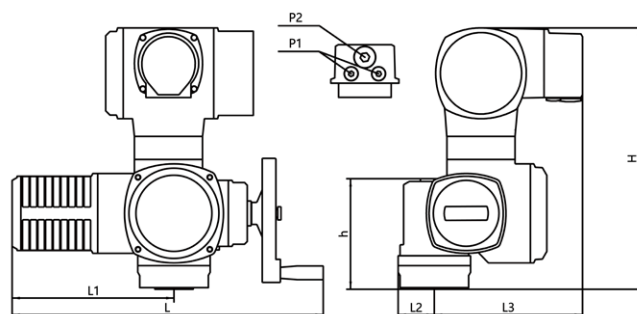
Model	Flange	D	D1	D2	h1	f	h	b	d1	d2	d	n	α
UTM06/12/16	J2	145	120	90	2	5	8	12	30	45	M10	4	45°
UTM24/32	J3	185	160	125			10	15	42	58	M12		
UTM50	J4	225	195	150			12	20	50	72	M16		
UTM100	J5	275	235	180			14	25	62	82	M20		

Dimensions of basic



Model	Flange	Motor	L	L1	L2	L3	H	h	P1	P2
UTM06-16	F10	ZDM15	570	295	65	205	350	200	M20*1.5	M32*1.5
		ZDM30	600	325						
UTM32	F14	ZDM30	620	335	88	227	370	245		
		ZDM35	665	380						
UTM50-100	F16	ZDM100	745	445	115	255	430	310		

Dimensions of Pro and Plus



Model	Flange	Motor	L	L1	L2	L3	H	h	P1	P2
UTM06-16	F10	ZDM15	570	295	65	270	475	200	M20*1.5	M32*1.5
		ZDM30	600	325						
UTM32	F14	ZDM30	620	335	88	295	495	245		
		ZDM35	665	380						
UTM50-100	F16	ZDM100	745	445	115	315	555	310		



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