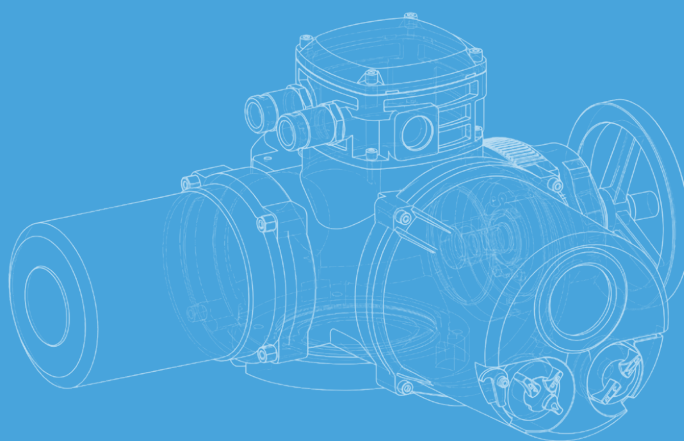


AZ Actuator Catalog

VALVE INTELLECTUAL TECHNOLOGY EXPERT



2026



PRODUCT OVERVIEW

The AZ multi-turn electric actuator features a compact structure, small size, attractive appearance, and reliable performance. It is suitable for gate valves, globe valves, diaphragm valves, gates, etc., and is used for opening, closing or regulating the valves.

The overall performance of the AZ multi-turn valve electric actuator complies with GB/T 24923-2010 "Technical Conditions for Ordinary Type Valve Electric Actuators" and GB/T 28270-2012 "Intelligent Type Valve Electric Actuators". The explosion-proof performance complies with GB/T 3836.1-2021 "Explosive Atmospheres - Part 1: Equipment - General Requirements" and GB/T 3836.2-2021 "Explosive Atmospheres - Part 2: Equipment Protected by Flameproof Enclosures 'd'".



MAIN TECHNICAL PARAMETERS

Power Supply	3-phase AC	AC380 ±10% ,50Hz(Optional 220V ~ 480V, 60Hz)	
	1-phase AC	AC220 ±10%,50Hz (Optional 110V ~ 220V, 60Hz)	
Protection Class	Basic	IP65	Optional IP68(3m/72h)
	Open-Close (IS)	IP67	
	Modulation (IM)		
Environmental Requirements	Temperature	-20 ~ +60℃ (Optional -40~60℃)	
	Relative Humidity	≤90% (+25℃)	
Explosion-proof Marking		Ex db IIB T4 Gb	
Working Duty	Basic, Open-Close (IS)	S2-15min, Class A	
	Modulation (IM)	S4-25%, Class C	
Insulation Class		Class F (Optional Class H)	

FUNCTION CONFIGURATION

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

Function configuration	Basic	IS	IM
Non-intrusive commissioning	-	☒	☒
Manual open-close operation	☒	☒	☒
Remote/Local control switch	-	☒	☒
LCD status display	-	☒	☒
Mechanical position limit switch	☒	-	-
Absolute encoder limit positioning	-	☒	☒
Mechanical torque limit protection	☒	☒	☒
Phase sequence self-identification	-	☒	☒
Power phase-loss protection	-	☒	☒
Motor overheating 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	-	☐	☐
Fault Diagnosis System	-	☒	☒

MECHANICAL PARAMETER

Model	Torque	Speed	Flange	Hand wheel	Manual Ratio	Maximum turns	Reference weight									
							Basic	IS/IM								
/	Nm	Rpm	/	mm	i	Turn	kg									
AZ10	100	24	F07/F10/J2	160	1:30	1000	30~33	33~36								
		36														
		48														
AZ15	150	24							F12/F14/J3	200	1:28.5	800	33~35	36~39		
		36														
		48														
AZ20	200	24	F14/F16/J4	250	1:26	500	47~50	50~53								
		36														
		48														
AZ30	300	24							F16/F25/J5	250	1:26	500	65~68	68~71		
		36														
		48														
AZ45	450	24	F30/J7	350	1:30	450	147~152	152~157								
		36														
		48														
AZ60	600	24					F30/J7	350	1:30	450	152~156	157~161				
		36														
		48														
AZ90	900	24	J8								172	177				
		36														
		48														
AZ120	1200	24														
		36														
		48														
AZ180	1800	24									147~152	152~157				
		36														
AZ250	2500	24													152~156	157~161
		36														
AZ350	3500	24													172	177

ELECTRICAL PARAMETERS

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

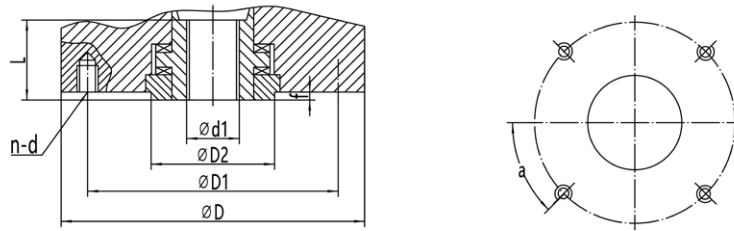
Model	Speed	Motor Power	Motor Speed	Current (30% load)	Current (100% load)	Motor Efficiency	Motor Power Factor	Reference Size
/	Rpm	kW	Rpm	A	A	%	cosφ	/
AZ10	24	0.25	1400	0.6	1.5	65	0.74	S1
	36	0.37		0.8	2.1	67	0.75	S2
	48	0.55		1.1	2.8	71	0.75	
AZ15	24	0.37	1400	0.8	2.1	67	0.75	S1
	36	0.55		1.1	2.8	71	0.75	S2
	48	0.75		1.3	3.3	73	0.76	
AZ20	24	0.55	1400	1.1	2.8	71	0.75	S3
	36	0.75		1.3	3.3	73	0.76	
	48	1.1		1.8	4.4	75	0.77	S4
AZ30	24	0.75	1400	1.3	3.3	73	0.76	S3
	36	1.1		1.8	4.4	75	0.77	S4
	48	1.5		2.3	5.7	78	0.79	
AZ45	24	1.1	1400	1.8	4.4	75	0.77	S5
	36	1.5		2.3	5.7	78	0.79	
	48	2.2		3.0	7.4	80	0.81	
AZ60	24	1.5	1400	2.3	5.7	78	0.79	
	36	2.2		3.0	7.4	80	0.81	
	48	3.0		4.5	11.3	82	0.82	
AZ90	24	2.2	1400	3.0	7.4	80	0.81	S6
	36	3.0		4.5	11.3	82	0.82	
	48	5.5		5.3	13.3	85	0.83	
AZ120	24	3.0	1400	4.5	11.3	82	0.82	
	36	5.5		5.3	13.3	85	0.83	
	48	7.5		6.1	15.2	87	0.84	
AZ180	24	4.0	1400	5.3	13.3	84	0.82	S7
	36	5.5		6.1	15.2	85	0.83	
AZ250	24	5.5	1400	6.1	15.2	85	0.83	
	36	7.5		8.3	20.7	87	0.84	
AZ350	24	7.5	1400	8.3	20.7	87	0.84	S8

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

Model	Speed	Motor Power	Motor Speed	Current (30% load)	Current (100% load)	Motor Efficiency	Motor Power Factor	Reference Size
/	Rpm	kW	Rpm	A	A	%	cosφ	/
AZ10	18	0.25	1400	1.3	2.2	65	0.74	S2
AZ15	18	0.37	1400	1.9	3.2	67	0.75	
AZ20	18	0.55	1400	2.5	4.2	71	0.75	S4
AZ30	18	0.75	1400	2.9	4.9	73	0.76	

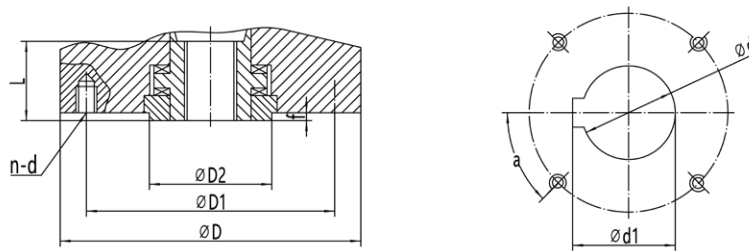
VALVE CONNECTION

Standard: ISO5210-A



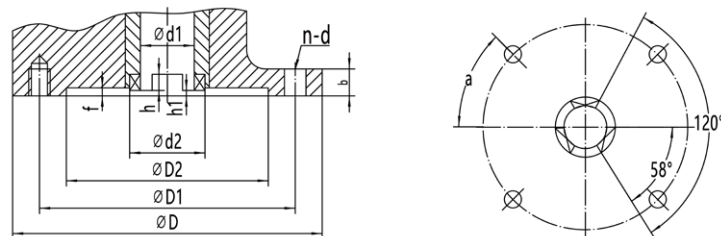
Model	Flange	D	D1	D2	f	d1(max)	n-d	L	α
AZ10/AZ15	F07	90	70	55	3	Tr 20	4-M18	30	45°
	F10	125	102	70		Tr 28	4-M10	40	
AZ20/AZ30	F12	150	125	85	4	Tr 32	4-M12	50	
	F14	175	140	100		Tr 40	4-M16	55	
AZ45/AZ60	F14	175	140	100	5	Tr 48	4-M16	55	22.5°
	F16	210	165	130		Tr 48	4-M20	70	
AZ90/AZ120	F25	300	254	200	5	Tr 60	8-M16	90	
AZ180/AZ250	F30	350	298	230		Tr 70	8-M20	130	

Standard: ISO5210-B



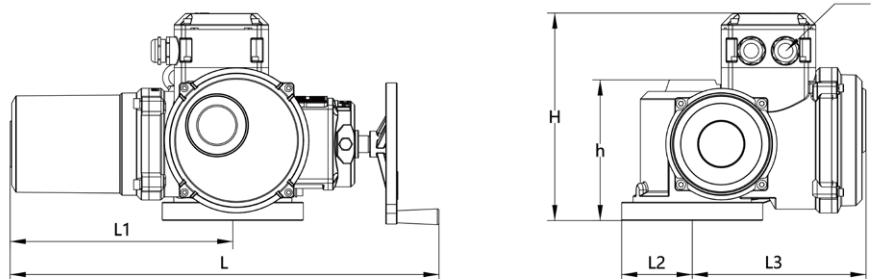
Model	Flange	D	D1	D2	f	d1(max)	d(max)	n-d	L	α
AZ10/AZ15	F07	90	70	55	3	20	15	4-M18	30	45°
	F10	125	102	70		28	20	4-M10	40	
AZ20/AZ30	F12	150	125	85	4	32	25	4-M12	50	
	F14	175	140	100		40	30	4-M16	55	
AZ45/AZ60	F14	175	140	100	5	48	40	4-M16	55	22.5°
	F16	210	165	130		48	40	4-M20	70	
AZ90/AZ120	F25	300	254	200	5	60	50	8-M16	90	
AZ180/AZ250	F30	350	298	230		70	60	8-M20	130	

Standard: JB2920



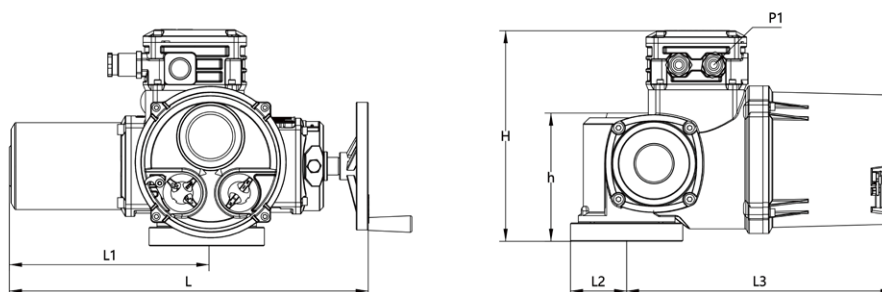
Model	Flange	D	D1	D2	h1	f	h	b	d1	d2	d	n	α
AZ10/AZ15	J2	145	120	90	2	5	8	12	30	45	M10	4	45°
AZ20/AZ30	J3	185	160	125			10	15	42	58	M12		
AZ45/AZ60	J4	225	195	150			12	20	50	72	M16		
AZ90/AZ120	J5	275	235	180			14	25	62	82	M20		
AZ180/AZ250	J7	330	285	220	3	6	16	30	72	98	φ27	8	22.5°
AZ350	J8	380	340	280			20	35	82	118	φ22		

Dimensions of basic



Model	Flange	Size	L	L1	L2	L3	H	h	P1
AZ10/15	J2	S1	507	251	72	222	267	166	M25*2
		S2	537	281					
AZ20/30	J3	S3	565	295	93	228	272	185	
		S4	615	345					
AZ45/60	J4	S5	627	346	113	265	312	241	
AZ90/120	J5	S6	688	407	138	265	312	241	
AZ180/250	J7	S7	780	466	165	300	391	317	
AZ350	J8	S8	780	466	190	300	391	317	

Dimensions of IS and IM



Model	Flange	Size	L	L1	L2	L3	H	h	P1
AZ10/15	J2	S1	507	251	72	345	267	166	M25*2
		S2	537	281					
AZ20/30	J3	S3	565	295	93	351	272	185	
		S4	615	345					
AZ45/60	J4	S5	627	346	113	388	312	241	
AZ90/120	J5	S6	688	407	138	388	312	241	
AZ180/250	J7	S7	780	466	165	423	391	317	
AZ350	J8	S8	780	466	190	423	391	317	



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