

AE-D Series

Electric Actuator



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Features and Benefits



External user interface for local control and calibration without opening enclosure.



High Visibility LED or Scaled Position Indicator.



NEMA 6P Enclosure.
Watertight to 1.5M
(4.9') for 30 minutes



3 Output Relays for Open, Closed, and Fault.



High efficiency Brushless DC Motor for long service life.



Heater and Thermostat standard on all units.



Female Conduit Entry with Pre-wired Cable.



High Resolution 4096 Step (1024/90°) Position Encoder eliminates the need for cams and microswitches.



Optional Super Capacitor



FAIL SAFE Super Capacitor Power Module for reliable operation at loss of power.



Technical Specifications

AE-D Series Electric Actuator Performance Chart																	
Model Number	Torque (In-lbs)	Cycle Time Sec. 0-90		Motor Power (Watts)	Rated Current (Amps)				Run Current (Amps)				Lock Current (Amps)				ISO 5211 Patterns
		24VAC 24VDC	110VAC 220VAC		24 VAC	24 VDC	110 VAC	220 VAC	24VAC	24VDC	110 VAC	220 VAC	24VAC	24VDC	110 VAC	220 VAC	
AE-D11	89	9	6	10	1	0.7	0.32	0.18	0.7	0.48	0.26	0.14	2.25	1.35	0.45	0.35	F03/F05-11
AE-D12	124	11	8	10	1	0.7	0.32	0.18	0.7	0.48	0.26	0.14	2.25	1.35	0.45	0.35	F03/F05-11
AE-D13	177	15	11	10	1	0.7	0.32	0.18	0.7	0.48	0.26	0.14	2.25	1.35	0.45	0.35	F03/F05-11
AE-D21	310	11	8	15	1.9	1.4	0.65	0.45	1	0.8	0.4	0.32	3.75	3.13	1.55	0.78	F05/F07-14
AE-D22	443	14	12	15	1.9	1.4	0.65	0.45	1	0.8	0.4	0.32	3.75	3.13	1.55	0.78	F05/F07-14
AE-D31	708	20	16	15	1.8	1.4	0.65	0.45	1.25	0.8	0.4	0.32	3.7	2.65	1.07	0.72	F05/F07-22
AE-D32	885	27	18	15	1.8	1.4	0.65	0.45	1.25	0.8	0.4	0.32	3.7	2.65	1.07	0.72	F05/F07-22
AE-D41	1328	22	8	100	1.3	1.25	1.32	0.85	1	1	1	0.6	1.95	1.88	1.98	1.28	F07/F10-27
AE-D42	1770	31	10.5	100	1.3	1.25	1.32	0.85	1	1	1	0.6	1.95	1.88	1.98	1.28	F07/F10-27
AE-D43	2213	35	13	100	1.3	1.25	1.32	0.85	1	1	1	0.6	1.95	1.88	1.98	1.28	F07/F10-27
AE-D44	2655	—	15	100	—	—	2.2	1.2	—	—	1.3	0.7	—	—	3.3	1.8	F07/F10-27
AE-D45	3540	—	17	100	—	—	2.2	1.2	—	—	1.3	0.7	—	—	3.3	1.8	F07/F10-27
**AE-D51	2655	—	14	100	—	—	2.2	1.2	—	—	1.3	0.7	—	—	3.3	1.8	F12/F14-36
**AE-D52	3540	—	16	100	—	—	2.2	1.2	—	—	1.3	0.7	—	—	3.3	1.8	F12/F14-36
**AE-D53	4425	—	19	100	—	—	2.2	1.2	—	—	1.3	0.7	—	—	3.3	1.8	F12/F14-36
**AE-D54	5753	—	22	100	—	—	2.2	1.2	—	—	1.3	0.7	—	—	3.3	1.8	F12/F14-36

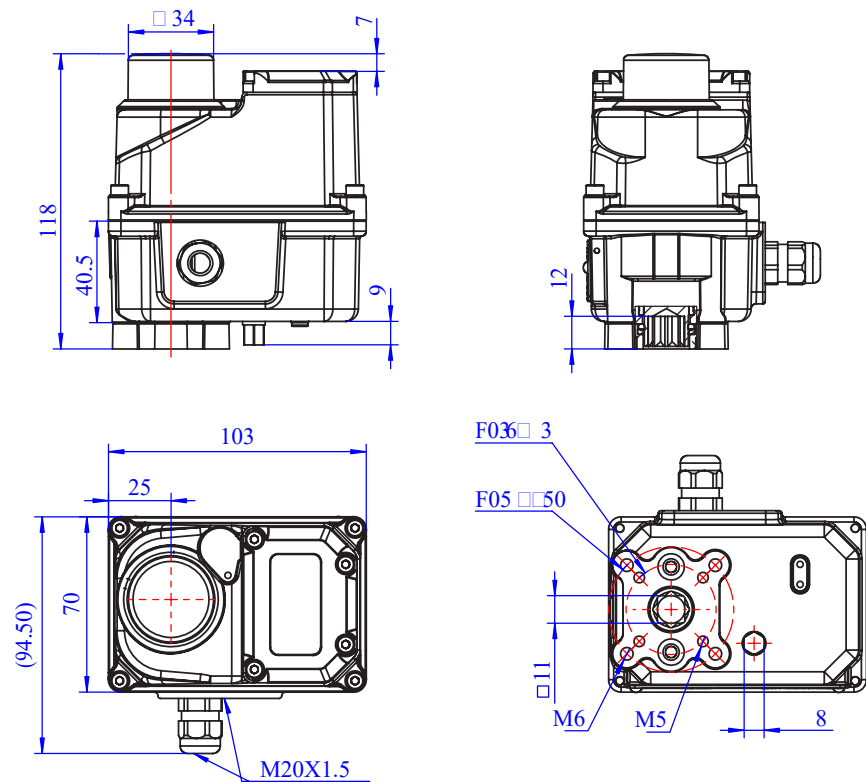
**** Note:** These Part Numbers do **NOT** offer the Super Capacitor Option for Fail Safe due to loss of Power.

Technical Specifications - Fast Acting

AE-D Series Electric Actuator Performance Chart																	
Model Number	Torque (In-lbs)	Cycle Time Sec. 0-90		Motor Power (Watts)	Rated Current (Amps)				Run Current (Amps)				Lock Current (Amps)				ISO 5211 Patterns
		24VAC 24VDC	110VAC 220VAC		24 VAC	24 VDC	110 VAC	220 VAC	24VAC	24VDC	110 VAC	220 VAC	24VAC	24VDC	110 VAC	220 VAC	
AE-D1A	80	5	5	10	1	0.7	0.32	0.18	0.7	0.48	0.26	0.14	2.25	1.35	0.45	0.35	F03/F05-11
AE-D2A	204	5	5	15	1.9	1.4	0.65	0.45	1	0.8	0.4	0.32	3.75	3.13	1.55	0.78	F05/F07-14
AE-D3A	443	5	5	30	5	4	1.67	0.75	3.3	2.5	1.1	0.55	6.9	6.3	2	1.3	F05/F07-22
AE-D4A	708	5	5	100	1.3	1.25	1.32	0.85	1	1	1	0.6	1.95	1.88	1.98	1.28	F07/F10-27
AE-D4B	1328	—	5	100	—	—	2.2	1.2	—	—	1.9	1.1	—	—	3.3	1.8	F07/F10-27
AE-D4C	1062	5	—	80	—	4.5	—	—	—	2.5	—	—	—	6.5	—	—	F07/F10-27

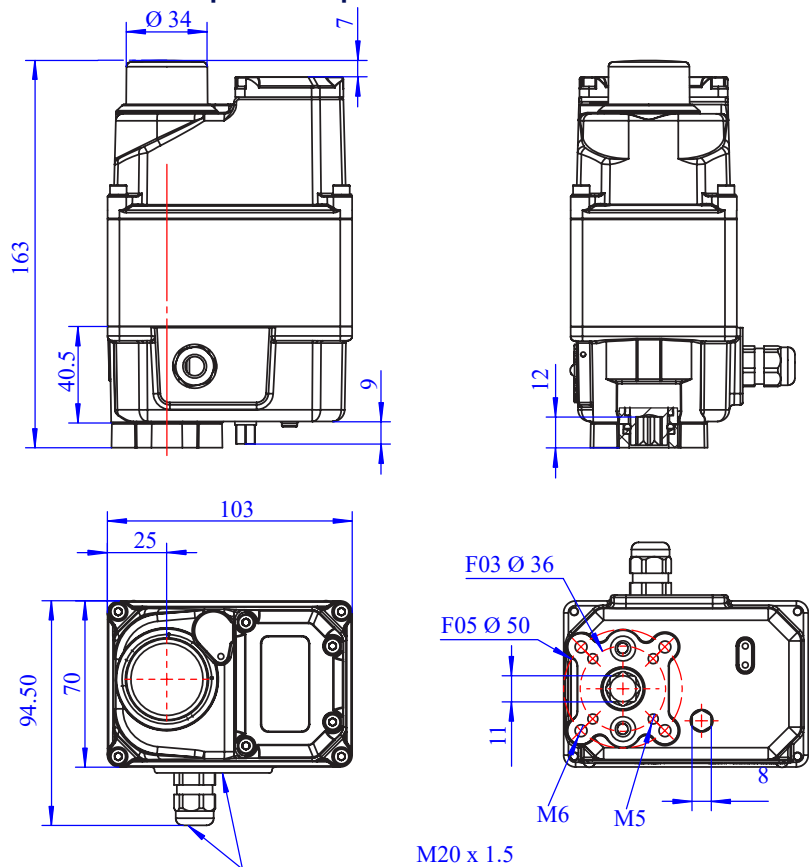
Dimensions AE-D1 Series

AE-D1



Units: mm

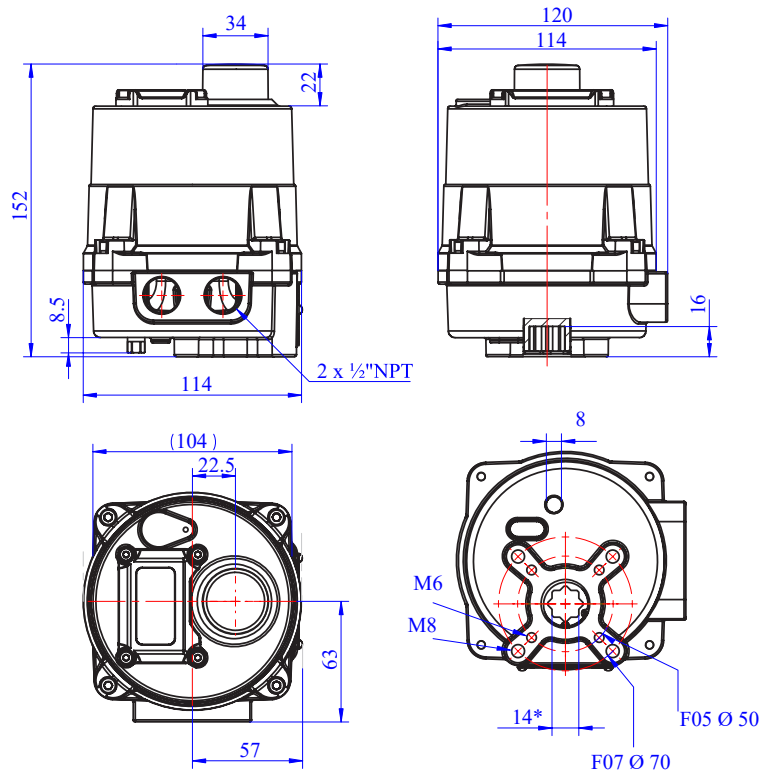
AE-D1 with Super Capacitor



Units: mm

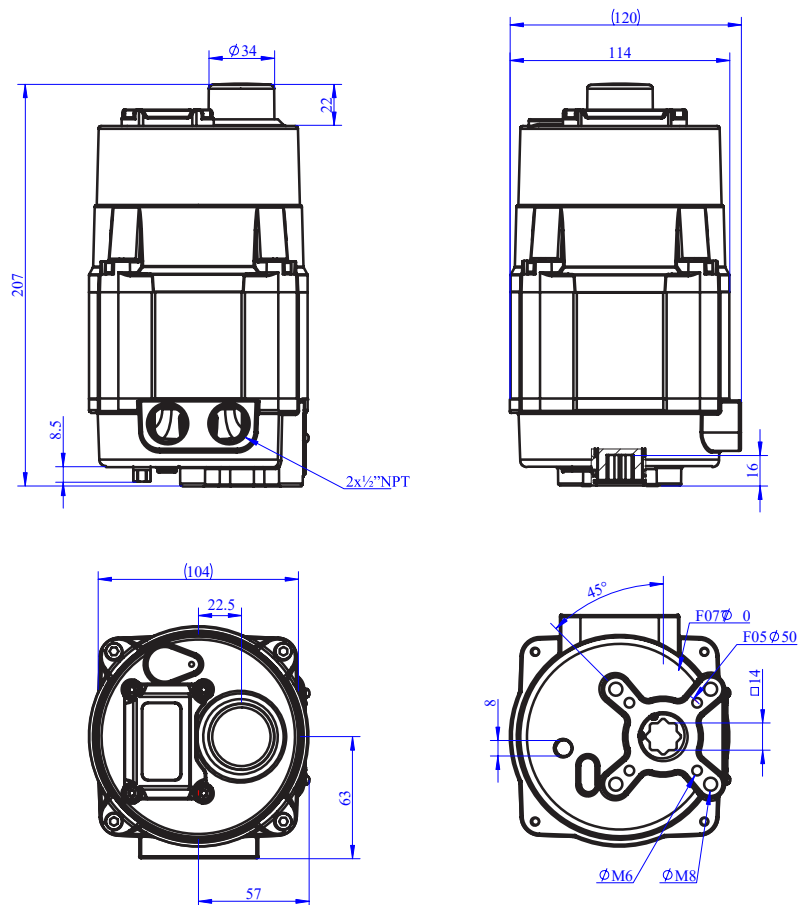
Dimensions AE-D2 Series

AE-D2



AE-D2 with Super Capacitor

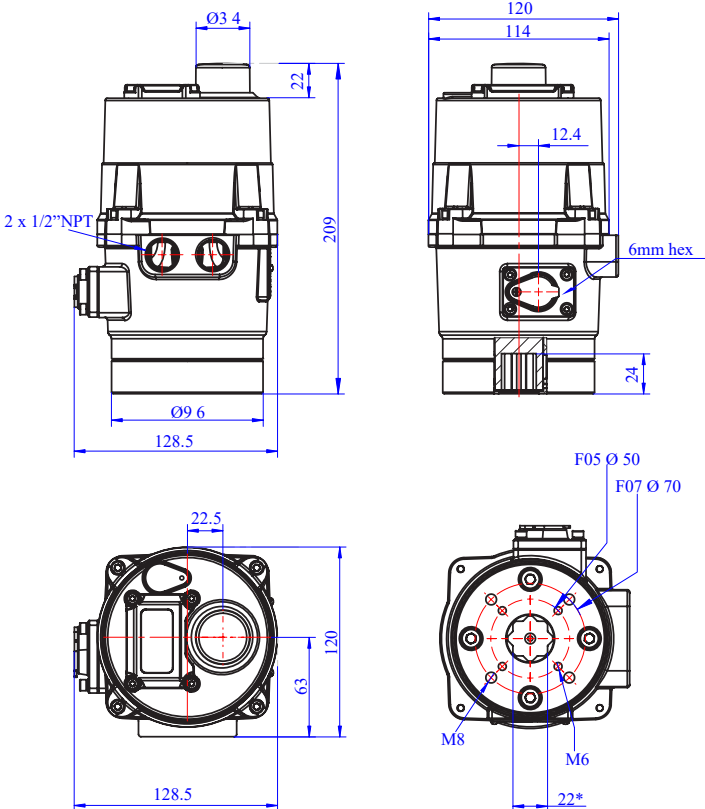
Units: mm



Units: mm

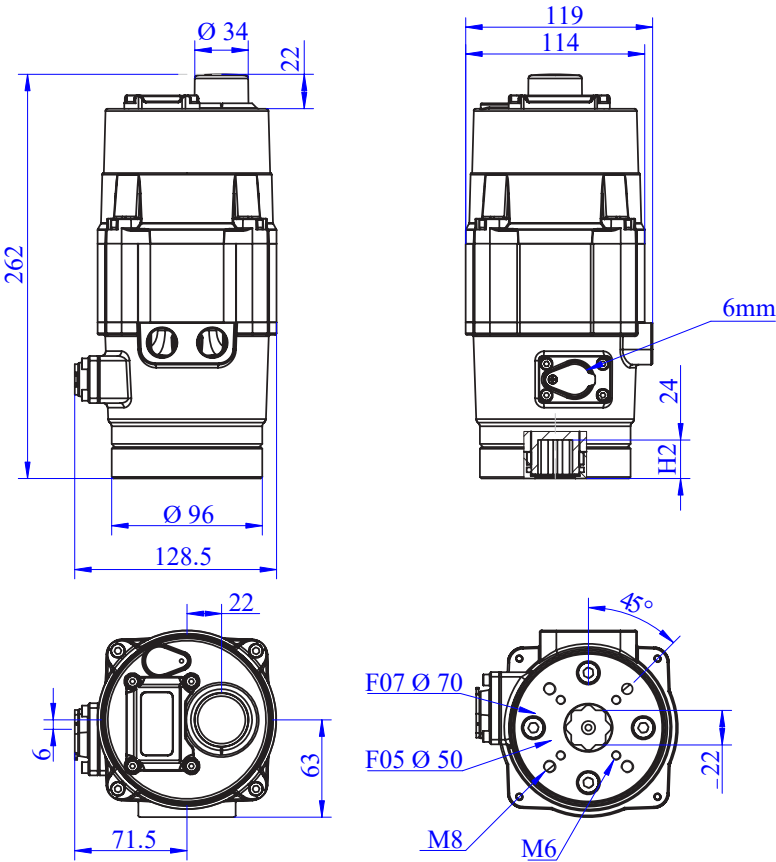
Dimensions AE-D3 Series

AE-D3



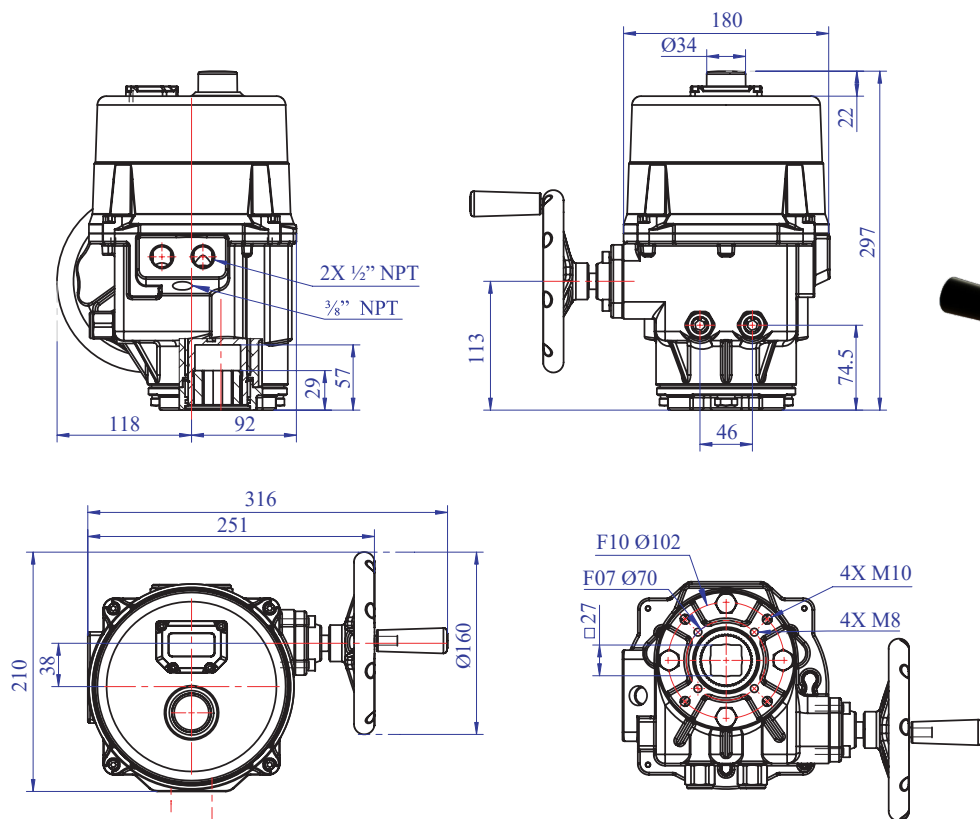
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AE-D3 with Super Capacitor



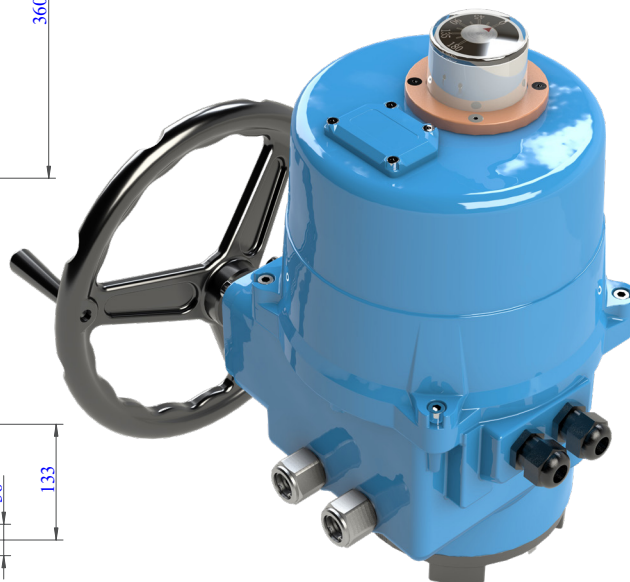
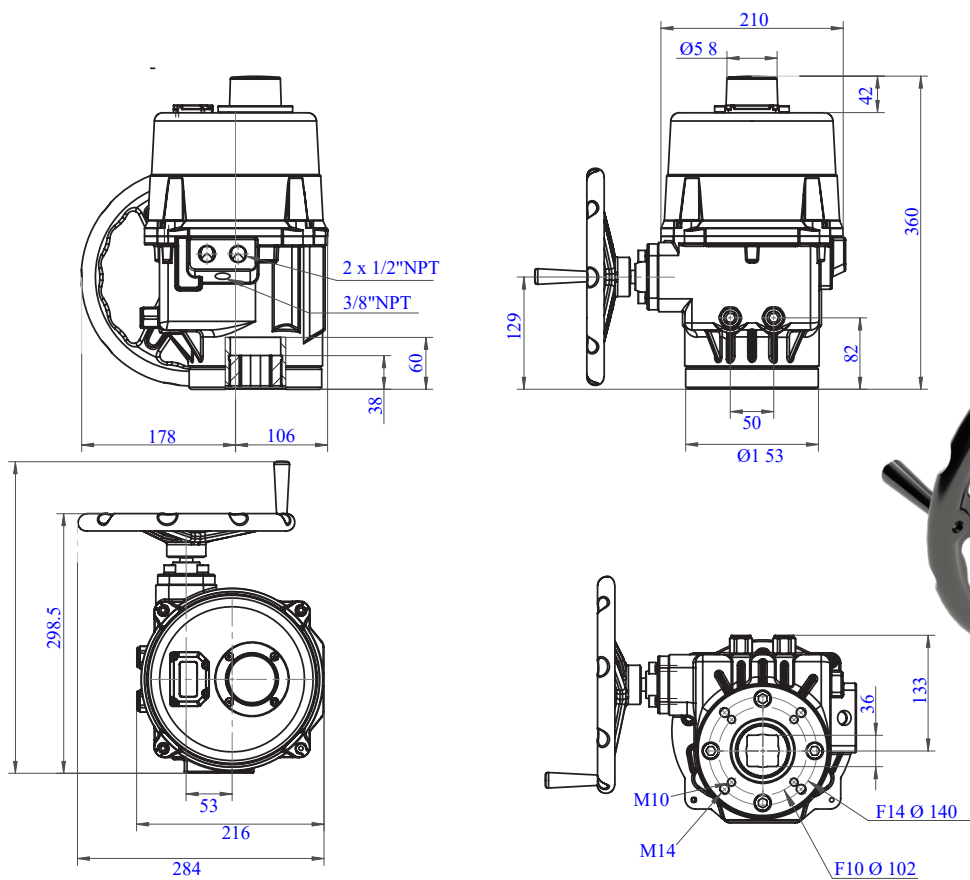
Units: mm

Dimensions AE-D4 Series



Units: mm

Dimensions AE-D5 Series



Units: mm

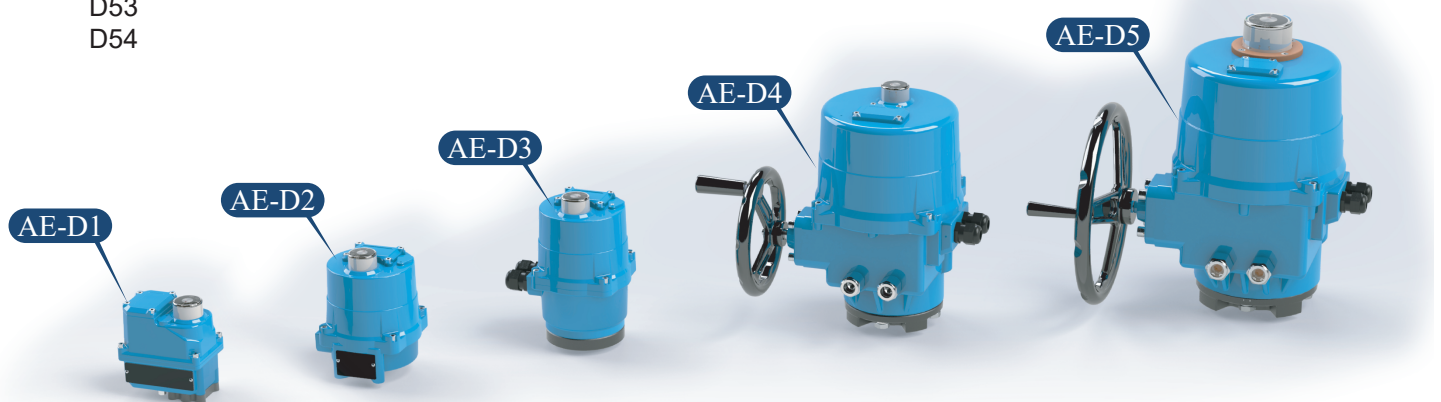
Ordering Information

AE		- D21		F		4		- 11		S1		2		-		0		1	
Series	Model	Voltage		Enclosure		Cycle Time (seconds)	Operation/Control Signals		Indicator				Options						
													Special Configurations/ Accessories				Cable		
AE	-	D1A	F	24 VAC/DC	4	NEMA 4,	-	05	-		1	Scaled 0°-90° LED	-	0	None	0	None		
		D11	G	110/220		4X, 6, 6P		06	O1	On-Off (0°~90°)				C	Super Capacitor	1	6 Feet		
		D12		VAC		IP67/68		08	S1	Smart (0°~45°~90°)					Fail/Safe Module	2	18 Feet		
		D13	B*	110 VAC				09	S2	Smart (0°~90°) with Timer				B	Battery Fail/Safe	3	30 Feet		
		D2A	C*	220 VAC				11	S3	Smart (0°~90°~180°)				R	Remote Control Module	X	Custom		
		D21						12	S4	Smart (0°~180°) with Timer									
		D22						13	Smart Modulating (0°~90°):										
		D3A						14	Input	Output									
		D31						16	V0	0~135Ω / 1~5V									
		D32						18	V1	4~20mA / 4~20mA									
		D4A						20	V2	4~20mA / 1~5V									
		D4B						22	V3	4~20mA / 2~10V									
		D4C						27	V4	1~5V / 4~20mA									
		D41						31	V5	1~5V / 1~5V									
		D42						35	V6	1~5V / 2~10V									
		D43							V7	2~10V / 4~20mA									
		D44							V8	2~10V / 1~5V									
		D45							V9	2~10V / 2~10V									
		D5A							Smart Modulating (0°~180°):										
		D5B							Input	Output									
		D51							VA	4~20mA / 4~20mA									
		D52							VB	4~20mA / 1~5V									
		D53							VC	4~20mA / 2~10V									
		D54							VD	1~5V / 4~20mA									
		D55							VE	1~5V / 1~5V									
									VF	1~5V / 2~10V									
									VG	2~10V / 4~20mA									
									VH	2~10V / 1~5V									
									VI	2~10V / 2~10V									

The Super Capacitor will **NOT** work with models:

D5A
D5B
D51
D52
D53
D54

*For D4 Series
and D5 Series



INLINE INDUSTRIES, INC.
9056 Garvey Ave., Rosemead, CA 91770
Tel: (800) 568-8998, (626) 813-6188
Fax: (626) 813-6186
www.ballvalve.com info@ballvalve.com