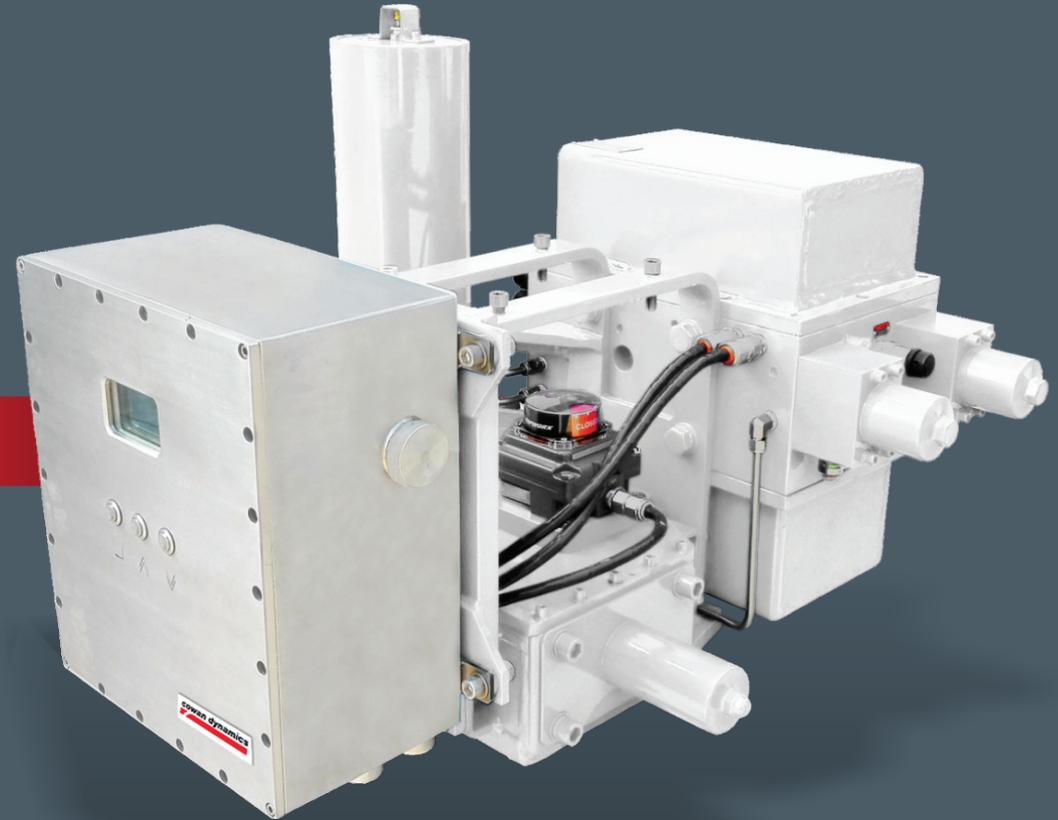


E²H90 SERIES

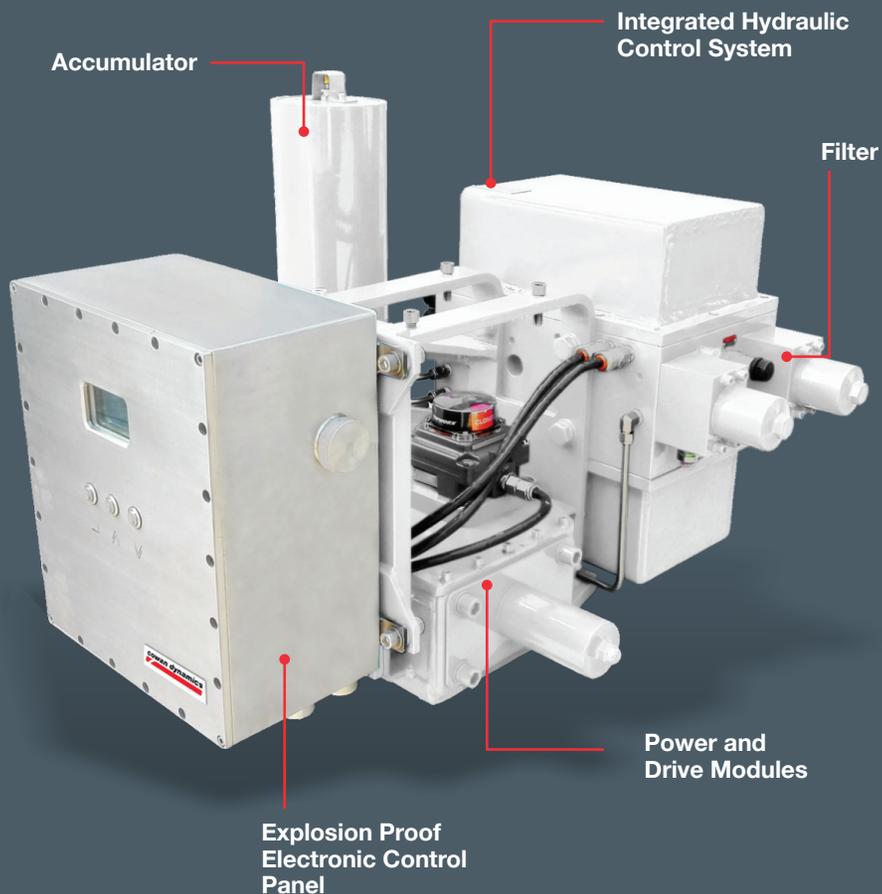
Self-Contained Electro-Hydraulic Rotary Actuator

Designed & Engineered for Emergency Shut-Down Applications

- Torques up to 2,655,000 in-lbs
- On/Off Service
- Fail Last, Fail Close or Fail Open



Design & Materials



Power and Drive Module

- Quarter turn stroke: -5° to 95° adjustable
- The cylinder features dual seals to guarantee zero leakage
- Symmetric and canted yokes are available to satisfy various valve torque profiles

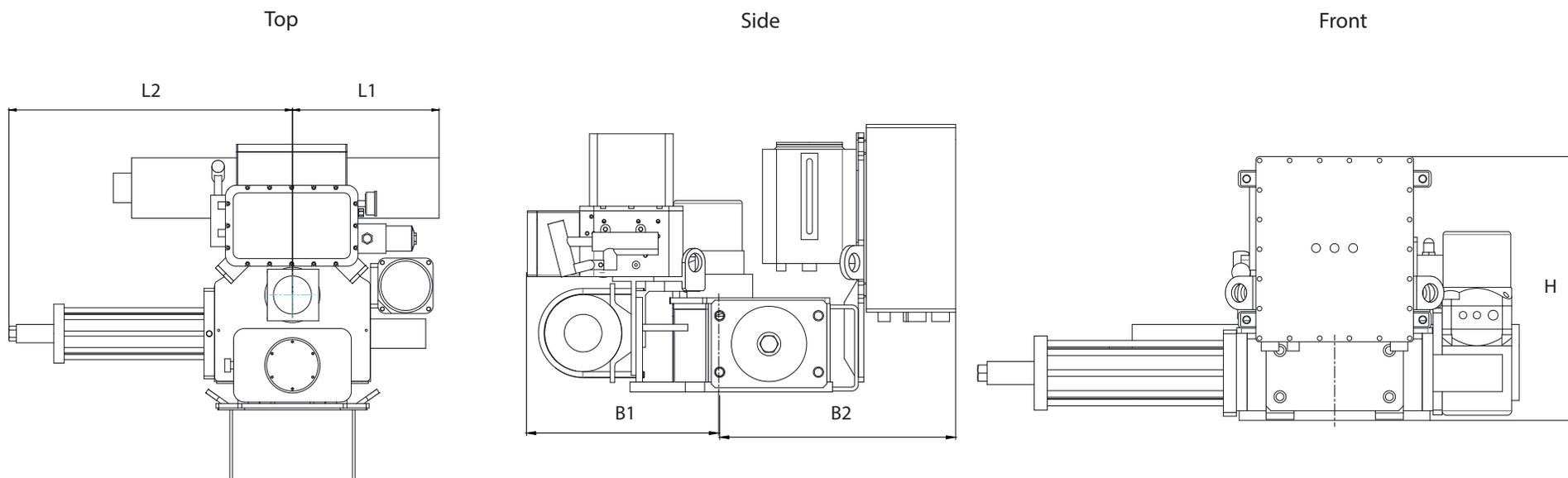
Specifications

Cowan's E²H90 is a compact self-contained **Electro-Hydraulic Rotary Actuator for ESD** valve applications.

The E²H90 Series are used for industrial process valves where highly reliable, controlled and **Emergency Shut-Down** are required. They are used to automate rotary type valves such as: ball and butterfly valves.

Service	Isolation, on/off
Design	Double or single acting
Fail system	Hydraulic Accumulators or Springs
Driven by	Accumulators, sized to 2 strokes
Voltages	200-240 Vac/1 Phase/3 Phase
	380-480 Vac/3 Phase
	500-690 Vac/3 Phase & Custom
Control panel	Integral or remote
Ambient temperature	(-40 to +70 C)
Protection	IP65/IP68
Classification for hazardous areas	Explosion-proof rating: Ex d IIB/IIC T4
Communication	Digital (standard) Feedback by HART, PROFIT NET, PROFIT BUS (options)
HMI	Local, remote and ESD function can be configured
	Open and close indication
	Program partial stroke test (PST)
Service	Duty cycle S5 (15 min continue service)
Power consumption	Only when recharging accumulators
Movement Lock	Complete after each operation
Manual override	Manual hydraulic pump
Speed	Speed control for Open and Close
Mounting	Horizontal or vertical (ISO, MSS, Custom)
Safety Integrity level	SIL 2 (HFT)=0 ; SIL 3 (HFT)>=1

Dimensions



Torque Chart

E2H90 Model	TORQUE OUTPUT (In-lbs)						L1 (inch)	L2 (inch)	B1 (inch)	B2 (inch)	H (inch)	Weight (lbs)
	BTO	RTO	ETO	BTC	RTC	ETC						
E2H90-003Y-060	23,101	12,159	22,305	21,824	12,159	21,312	15.7	19.7	15.7	18.1	18.9	396
E2H90-006Y-080	39,261	23,392	40,790	34,140	23,392	40,980	15.7	23.6	16.5	18.9	19.7	528
E2H90-009Y-100	69,417	43,977	74,821	62,109	43,977	71,092	16.5	26.8	17.7	19.7	20.5	616
E2H90-015Y-100	100,913	52,665	96,529	74,353	52,665	92,340	17.7	31.5	17.7	20.5	23.6	836
E2H90-030Y-120	243,696	135,147	225,071	193,600	135,147	207,519	19.7	41.3	20.5	22.8	26.8	1056
E2H90-060Y-150	499,284	245,904	390,552	334,512	245,904	424,795	25.6	51.2	23.6	25.6	29.9	1584
E2H90-100Y-200	857,855	475,746	765,593	655,731	475,746	734,758	37.4	55.1	25.6	27.6	32.3	2640
E2H90-200Y-240	1,774,556	928,055	1,408,958	1,249,752	928,055	1,607,687	37.4	55.1	25.6	27.6	32.3	2640

* Consult factory for torques above 1,775,556 In-lbs

Related materials

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