



WECHAT



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Welcome to HEARKEN

Actuators and Controls

**Hearken
Here We
Can**

The Trusted, Passionate and focused Partner in Valve Automation

At HEARKEN FLOW, The founding principle of Hearkenflow is simple: to Listen our customers needs first, to develop the innovative valve actuators solutions , to meet the unique needs of our customers, Along the way, To help our customers to solve the problems in Valve Automation. We are growing our brand in Pneumatic and Electric Actuators, Accessories..



Experienced team



Large inventory



Convenient consultation



WHY WE ARE DIFFERENT

We offer a complete valve automation solution by the applications experience and customization capabilities, with an experienced support team to guide you in selection, installation, and project support. In addition we maintain an extensive supply of product inventory on hand so that we can quickly fulfill orders and reduce wait times. Our sales and support staff are readily available and accessible so that customers get the answers they need quickly.

THE TARGET WE ARE PURSUING



High-quality



low cost



Reliable solution

- To build A strong Reputation in Providing Quality, Cost Effective , Reliable And Robust Performance Solutions for Valve Automation,
- Included Pneumatic Actuators, Electrically Actuators, Actuated Valves.



COMMITMENT TO QUALITY

At HEARKEN FLOW means performance, All products manufactured by HEARKEN FLOW are warranted against defects in material and workmanship for a period of 18 months from the day of startup. Each of our products are tested at the factory. we are confident that our products meet or exceed all applicable standards before they ever leave our facility. We are an ISO 9001-2008 certified company. Our Valve Actuators Has Applied for SIL3 Certificate, ATEX Certificate ,CE, Explosion-proof Certificate, IP68 Weather proof etc....

HML Series Electric Actuator

— Linear Design

Torque Protection

A sensor serve as overload protection for the entire valve travel, and you can setting a different torque volume between 40~120% of rated torque.

Limit Protection

Set this function is avilability, the actuator should stop automati cally while the valve position reach the limit position.

Automatic Phase Rotation Correction

Actuator monior the phases and run in the coretr dretien regard less of the sequence of power supply connection that is realized through a phase rotation correction Boolean logical calculation.

Without this function it may damage the valve in unconsciously.

Instantaneous Reversal Protection

The motor control logic automatically add a time delay in swit ching the motor when the actuator is ordered to reverse direct ion instantaneously, this function can preventing unnecess ary wear to the valve stems and gearboxes.

Electric Protection

The input and output signal channel of circuits are designed as photoelectric isolate mode.

Motor Thermal Protection

Two thermostats are embedded in the windings for provide thermal-protection by de-energised motor in the event of motor over the maximum temperature.

Main Technical Characteristics

- The input voltage range: single Phase 50/60Hz:110,120,220,230,240V 3-Phase 50/60Hz:200,230,240,380,400.415.440.460,480V
- Using the absolute encoder, the valve position never lost.The absolute encoder can ensure the high precision, zero wear, long life,strong anti-interference, no battery support.
- Optional all electronic torque detection technology to realize the torque continuous measurement, the over torque value can be adjusted without secondary calibration, it is unnecessary to consider mechanical wear.
- Perfect bus supporting plan: Profibus-dp. Modbus, FF, Hart, Device Net five kind of bus available.
- Unique double speed control mechanism, can make the actuators in work process avoid causing fluid surge effect.
- Infrared setting device and knob (magnetic isolation technique) all can set working parameters, convenient and practical, truly realize free open cover.
- Perfect level 3 password protection, but to different customers or operator separate authorization, prevent fault parameters set to actuator fault phenomenon.
- Provide five field programmable non-hold type relay feedback,provide an alarm non-hold type relay feedback, extensible four hold type relay feedback.
- Input /output signal channel have been photoelectric isolation (can bear 2000 V surge voltage).
- Operating temperature range: -30°C -+70°C.
- Use humidity range or less 90% RH, non-condensing around, do not contain strong corrosive, fammable and explosive gas or dust.



Testing For All Actuators

All actuators manufactured by HEARKEN are individually tested, Testing is carried out to check the leakage in both internal and external,The angle of rotation and Torque values.All bodies are stamped with year,month of production,size and serial number.

Phase Failure Protection

Actuator real time monitors all three phases of the power supply during operation to prevent lose phase action. (3-phase power supply only)

Valve Jammed Protection

Electronic latching inhibits the actuato torque protection function around 5 seconds and allows the motor to generate 2 times rated torque to unseat the stuck valves while starting operation signal is enabled, if the actuator in the above-mentioned second time have no movement, control circuit will cut off the power supply of the motor to prevent the further valve damage or motor burn out.

Fig. 6: Type of Connection between Electric Actuator and Valve

Model	Output speed (rpm)	18	24	36	48	72
HML03	Driving stem diameter/thread pitch mm	26/3				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F10				
	Modulation stroke KN	6.50	6.50	5.42	5.42	
	Linear soeed mm/sec	0.9	1.2	1.8	2.4	
	Rated close stroke KN	13.00	13.00	11.38	10.84	
HML05	Driving stem diameter/thread pitch mm	26/3				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F10				
	Modulation stroke KN	10.84	9.76	8.13	7.05	
	Linear soeed mm/sec	0.9	1.2	1.8	2.4	
	Rated close stroke KN	22.76	20.60	17.89	14.63	
HML10	Driving stem diameter/thread pitch mm	32/6				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F14				
	Modulation stroke KN	15.37	12.29	9.99	9.60	6.91
	Linear soeed mm/sec	1.8	2.4	3.6	4.8	7.2
	Rated close stroke KN	32.65	29.58	22.28	21.19	14.80
HML10	Driving stem diameter/thread pitch mm	38/14				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F14				
	Modulation stroke KN	9.34	7.47	6.07	5.84	4.20
	Linear soeed mm/sec	4.2	5.6	8.4	11.2	16.8
	Rated close stroke KN	19.85	17.98	13.54	12.84	8.87
HML20	Driving stem diameter/thread pitch mm	32/6				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F14				
	Modulation stroke KN	26.89	26.89	21.13	16.13	16.13
	Linear soeed mm/sec	1.8	2.4	3.6	4.8	7.2
	Rated close stroke KN	51.09	51.09	41.10	34.19	34.19
HML20	Driving stem diameter/thread pitch mm	38/14				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F14				
	Modulation stroke KN	16.35	16.34	12.8	9.81	9.81
	Linear soeed mm/sec	4.2	5.6	8.4	11.2	16.8
	Rated close stroke KN	31.06	31.06	24.99	20.78	20.78

HML Series Linear Actuator Performance Table (3-Phase)

Model	Output speed (rpm)	18	24	36	48	72
HML03	Driving stem diameter/thread pitch mm	26/3				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F10				
	Modulation stroke KN	9.20	9.20	8.45	7.37	
	Linear soeed mm/sec	0.9	1.2	1.8	2.4	
	Rated close stroke KN	18.43	18.43	16.26	14.63	
HML05	Driving stem diameter/thread pitch mm	26/3				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F10				
	Modulation stroke KN	18.43	18.43	16.26	14.63	
	Linear soeed mm/sec	0.9	1.2	1.8	2.4	
	Rated close stroke KN	33.06	29.27	29.27	26.02	
HML10	Driving stem diameter/thread pitch mm	32/6				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F14				
	Modulation stroke KN	31.15	31.15	26.12	20.74	18.06
	Linear soeed mm/sec	1.8	2.4	3.6	4.8	7.2
	Rated close stroke KN	46.87	41.87	31.15	26.12	20.74
HML10	Driving stem diameter/thread pitch mm	38/14				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F14				
	Modulation stroke KN	18.91	18.91	15.88	12.61	10.97
	Linear soeed mm/sec	4.2	5.6	8.4	11.2	16.8
	Rated close stroke KN	28.49	25.45	18.91	15.88	12.61
HML20	Driving stem diameter/thread pitch mm	32/6				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F14				
	Modulation stroke KN	58.39	58.39	49.56	39.18	39.18
	Linear soeed mm/sec	1.8	2.4	3.6	4.8	7.2
	Rated close stroke KN	78.37	78.37	62.62	52.25	52.25
HML20	Driving stem diameter/thread pitch mm	38/14				
	Max linear travel mm	115				
	Flange type (ISO 5210)	F14				
	Modulation stroke KN	35.49	35.49	30.12	23.82	23.82
	Linear soeed mm/sec	4.2	5.6	8.4	11.2	16.8
	Rated close stroke KN	47.64	47.64	38.06	31.76	31.76