

*** Intelligent Valve Actuators**



HURKO®

**HURKO SCIENCE
AND TECHNOLOGY CO.,LTD**

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About Us

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With an emphasis on supreme technology, HURKO Science and Technology CO., LTD is a manufacturer of the intelligent electric actuator that focuses on research & development, production, sales and customer service. We have abundant technology strength, advanced manufacture technics, and perfect machining and test equipment. Our intelligent actuators are provided with excellent quality, high capability & low price and simple manipulation. In the all-over world actuator domain our product is in the one-up status, It is introduced into from the foreign techniques. By our abstraction and amelioration our electric actuator is excogitated. It is a supemal, pithy and top end intelligent product nowadays. It's adopts the super large-scale integration, so it has powerful functions and steady performance. Our actuator has the LCD of the Chinese or English menu. It is the mechanical and electric integrative product assembled with intelligent, efficient and human performance. Our company has the advanced machining equipments and a lot of professional persons with ability in automatization, instrumentation, machine design, motor design and so on. These offer powerful sustainment and guarantee for the quality and performance of the "HURKO" electrical actuator. Our electric actuator is widely used in the domain of the power station, petroleum, paper-making, chemical plant, refinery, water disposal and so on.

About Us

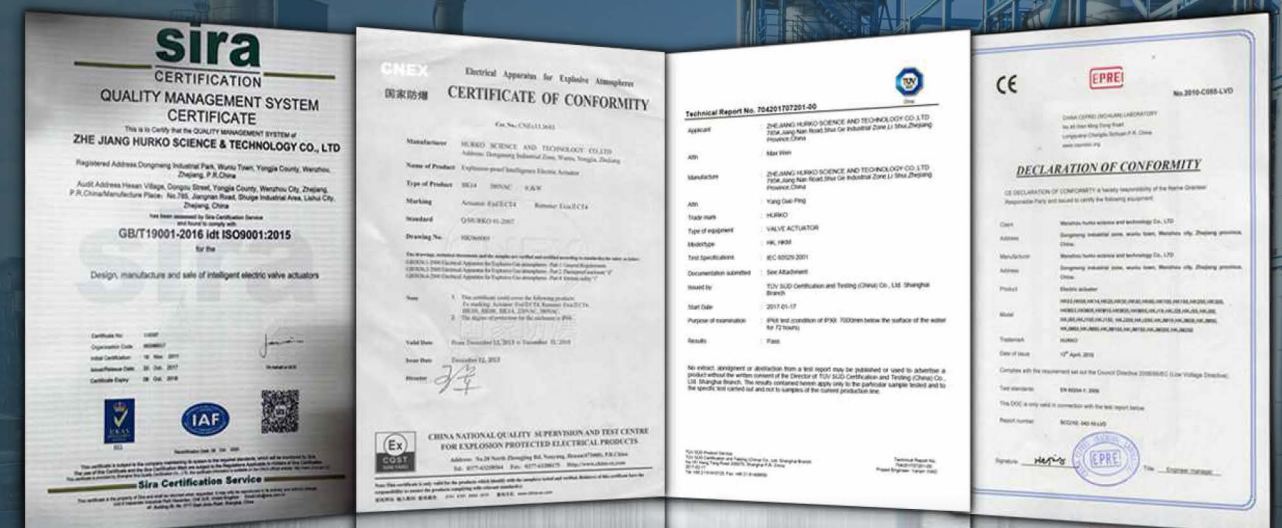
**CREAT INTELLIGENT
ELECTRIC ACTUATOR NEW ERA**

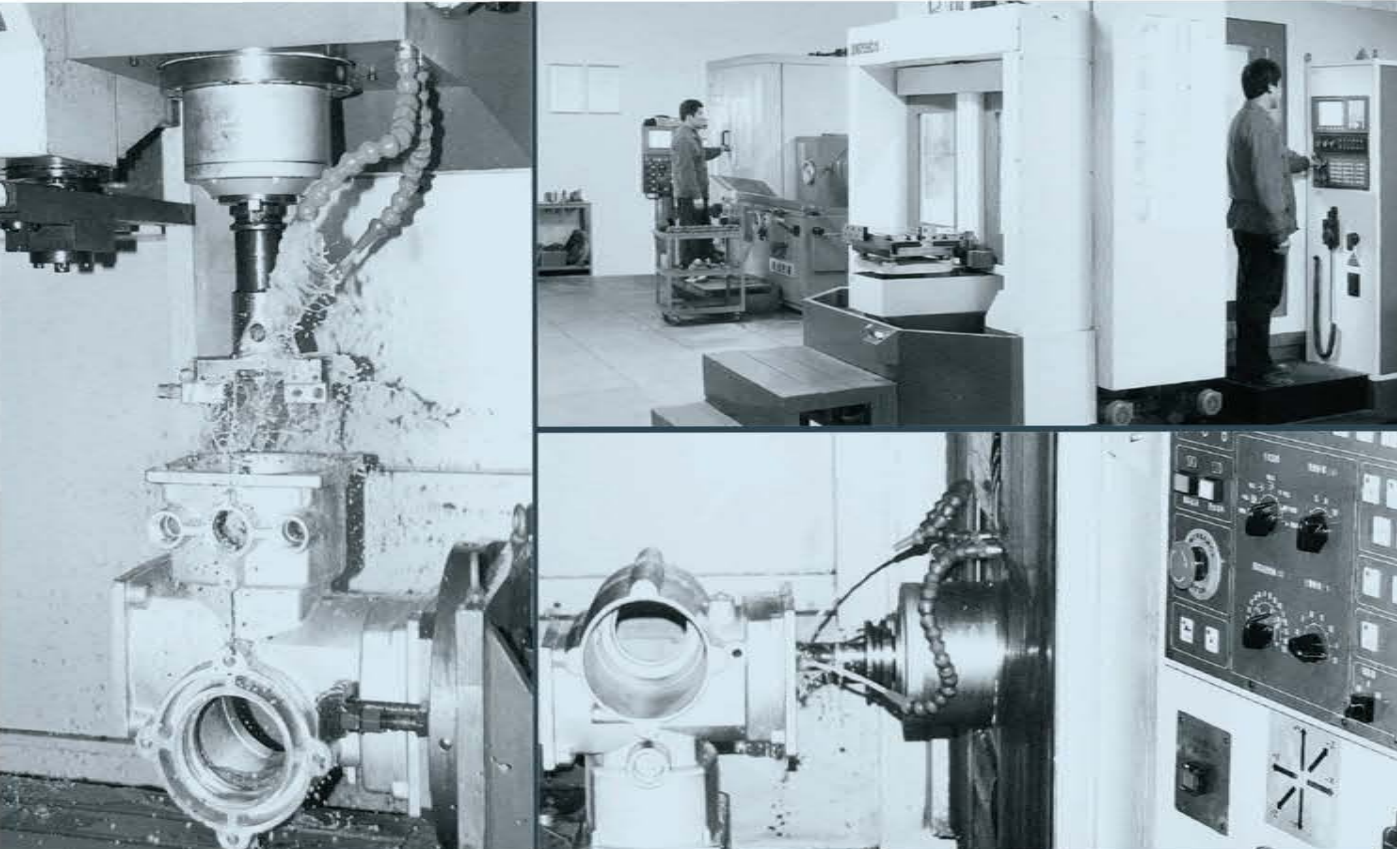


QUALITY

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On the road of the progress, we keep to the guidelines of "Prospering with quality, rooting With science and technology" all along, also we can grasp a new direction in market development accurately, innovate continuously and exploit bravely! We continuously hanker for the better knight service and satisfy the consumers' needs farthest!





STRENGTH

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Our company has research and development department, technology department, sales department, examination department production department personnel department, logistics department and so on. Every department has executed the quality system certificate of ISO9001:2000. In our company, every working-procedure is held the pass strictly. On the road of the progress, We all along make great efforts!

The excellence of our intelligent electric actuators owing to our high-precision numerical-control equipments, high-exactitude detection instruments, high-tech strict quality management system, professional persions, and high-level science and technology strength! On the road of the progress, we are all along with all our hearts!



HURKO



To turn customer satisfaction into customer willingness is the ultimate goal of Hurko. Each customer is taken as Hurko's permanent strategic partnership

Effective service system is the base to brand Hurko and assurance of the promise. Currently, Hurko has set up many sales and service office in China and world wide. Special project manager will be sent for each project for one-on-one service, to keep an accurate and fluent communication, therefore, a convenient and fast service system.

SERVICE

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Multi-Turn



Part-Turn



Linear



Double-stage Gearbox



Damper



Gearbox

Hurko intelligent controller using MCU to control, can receive the on-off signal, proportion signal, bus signal, adaptor three-phase contactor or solid state relay control motor positive and reverse, realize the on-off operation for the actuator. In the controller internal, integrated perfect protection circuit for overheating, of phase, over torque and so on. The controller can provide position signal feedback, multiple field programmable relay state feedback. the control signal can be divided into switch type and proportion type, the power supply can be divided into single-phase and three-phase.

Switch type receive only external switch quantity signal, the MCU control panel processing, output instruction after enlargement drive actuator motor remote opening or closing the action.

On the basis of switch type, the proportion type can receive external proportion signal.

Bus type: profibus-dp, Modbus, FF, Hart, Device Net



The Main Technical Characteristics

1. 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
2. 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.
3. 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.
4. Perfect bus supporting plan: Profibus-dp, Modbus, FF, Hart, Device Net five kind of bus available.
5. Unique double speed control mechanism, can make the actuators in work process avoid causing fluid surge effect.
6. Infrared setting device and knob (magnetic isolation technique) all can set working parameters, convenient and practical, truly realize free open cover.
7. Perfect level 3 password protection, but to different customers or operator separate authorization, prevent fault parameters set to actuator fault phenomenon.
8. Provide five field programmable non-hold type relay feedback, provide an alarm non-hold type relay feedback, extensible four hold-type relay feedback.
9. Input /output signal channel have been photoelectric isolation (can bear 2000 v surge voltage).
10. Operating temperature range: -30℃ ~ + 70 ℃.
11. Use humidity range or less 90% RH, non-condensing around, do not contain strong corrosive, flammable and explosive gas or dust.

Display



Advanced
Settings:
Enter?

Feedback Set:
Enter?

Basic Settings
Enter?

Local Control
Mode:
Inching

Deadband
Adjustment:
1.5%

Signal Inquires:
Enter?

Display



Actuator Display

The actuator has a liquid crystal display. The LCD screen is divided into four parts use to menu zone, alarm zone, indication zone and battery zone. The menu zone display the setting menu and interrogate menu. The indication zone display the valve position with the way of the percentage digital and the graphics, the valve position display precision is 1%. The LCD backlight will light as long as main power was supplied.

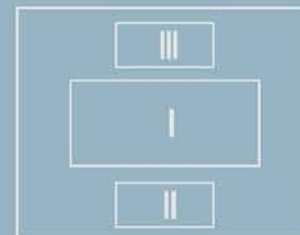
The actuator has two indicated lamps, the red lamp means the full close position, the green lamp means the full open position.

The battery supports the LCD display and the valve position measure while the system main power failure. In this situation, the actuator did not receive the data from infra-red setting tool as well as the backlight and indicted lamp are not lighted.

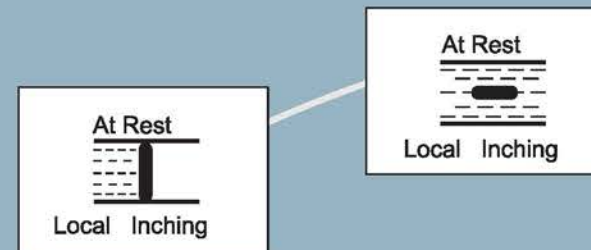
Liquid Crystal Display(LCD)

The actuator with a bitmap line LCD display. Its layout region I , area II and area III .

The area I for valve position display to valve position opening in the form of percentage of real-time display the current valve position value; The area II for control mode display; The area III for running status and alarm



information display (see the "5.The alarm information" in the subsequent).



CL. Overtorque
98.8%
Local Inching

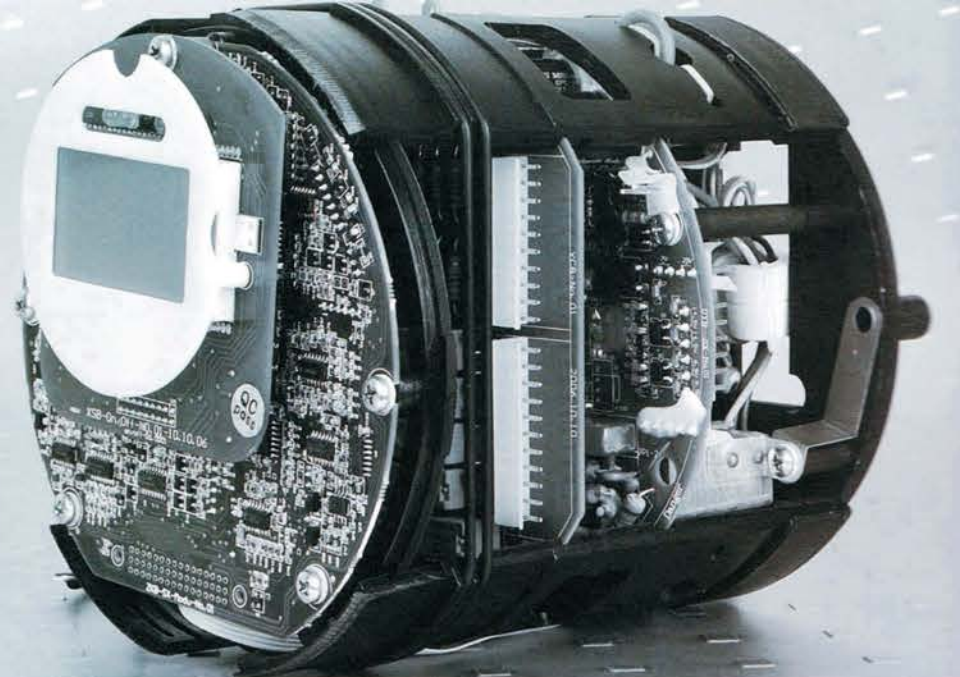
POS. Error
59.1%
Local Inching

OP. Overtorque
52.3%
Local Inching

MOT. OverThermal
30.3%
Local Inching

Lost Phase
30.3%
Local Inching





1. 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.

2. Limit protection

Set this function is availability, the actuator should stop automatically while the valve position reach the limit position.

3. Automatic phase rotation correction

Actuator monitor the phases and run in the correct direction regardless of the sequence of power supply connection that is realized through a phase rotation correction Boolean logical calculation.

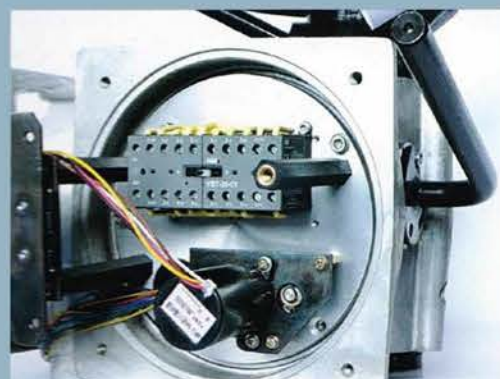
Without this function it may damage the valve in unconsciously.

4. Instantaneous reversal protection

The motor control logic automatically add a time-delay in switching the motor when the actuator is ordered to reverse direction instantaneously , this function can preventing unnecessary wear to the valve stems and gearboxes.

5. 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)



6. Valve Jammed protection

Electronic latching inhibits the actuator 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.

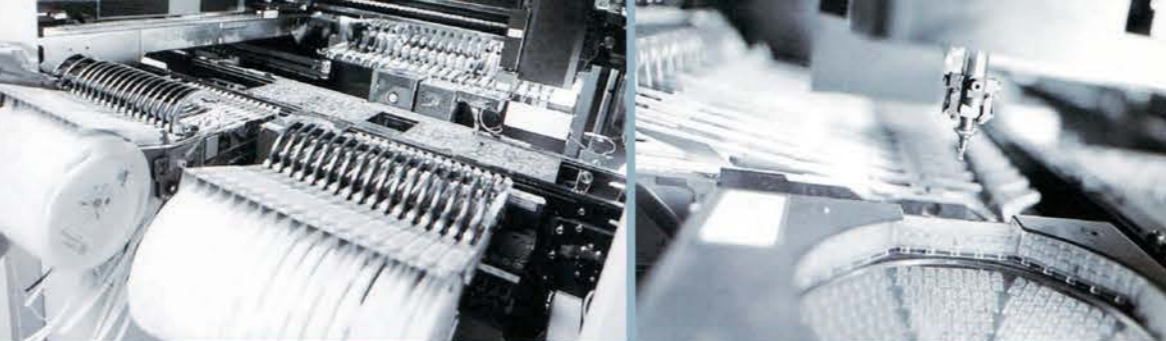
7. Motor thermal protection

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

8. Electric protection

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





Fieldbus module advantages:

- Reduce wiring, save time during planning and installation.
- Reduce cable, marshalling rack and dimensions of the control cabinet.
- simple to configure
- simple to use
- widespread open standard protocol
- many compatible devices available
- redundant configuration available



Modbus communication

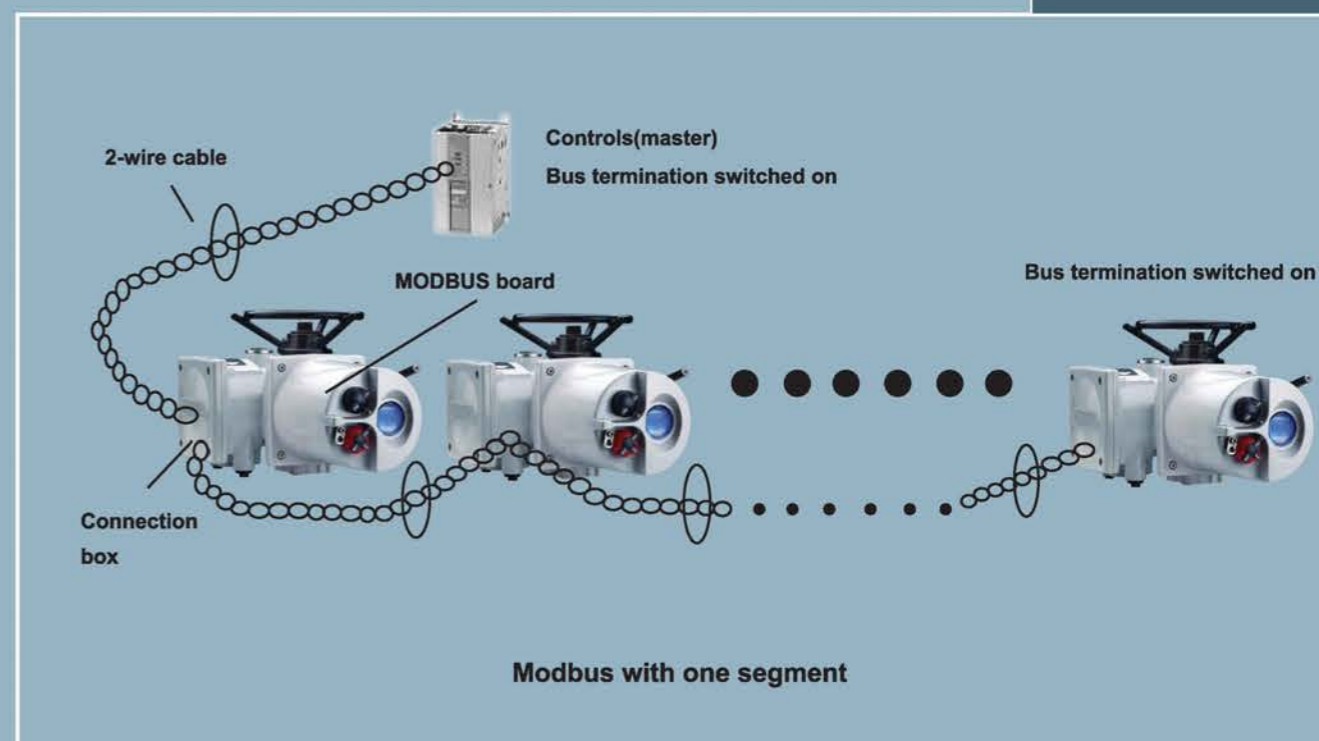
Signal or dual MODBUS modules can be included in the Hurko actuator to provide remote serial communication to the control functions and for status feedback data. The field network uses an RS485 data highway, either 2 or 4 wires, and can be duplicated where redundancy is required. The communication is half duplex and the protocol used is Modbus RTU with data rates up to 38 K baud. The actuator variables necessary to set up the system are programmable over the infra-red data link.

CAN bus communication

The CAN bus uses CAN2.0B protocol, it is based on ISO/OSI. The signal transmission medium is the twisted-pair, the great communication speed is 1Mbit/s, the great distance of the communication is 10Km (5kbps), the bus can link 110 actuators maximally.

Profibus communication

Profibus connectivity is possible by fitting the DP interface module within the Hurko actuator. this allows the Hurko actuator to be integrated into a standard Profibus network. Full compatibility with the fieldbus standard EN 50170 is provided and the module carries Profibus certification for inter-operability. The network allows full control of the actuator and feedback of status data to the host. The Hurko actuator Profibus module has two communication ports to facilitate redundant fieldbus wiring where reliability is paramount, data rates up to 1.5 M baud are supported.

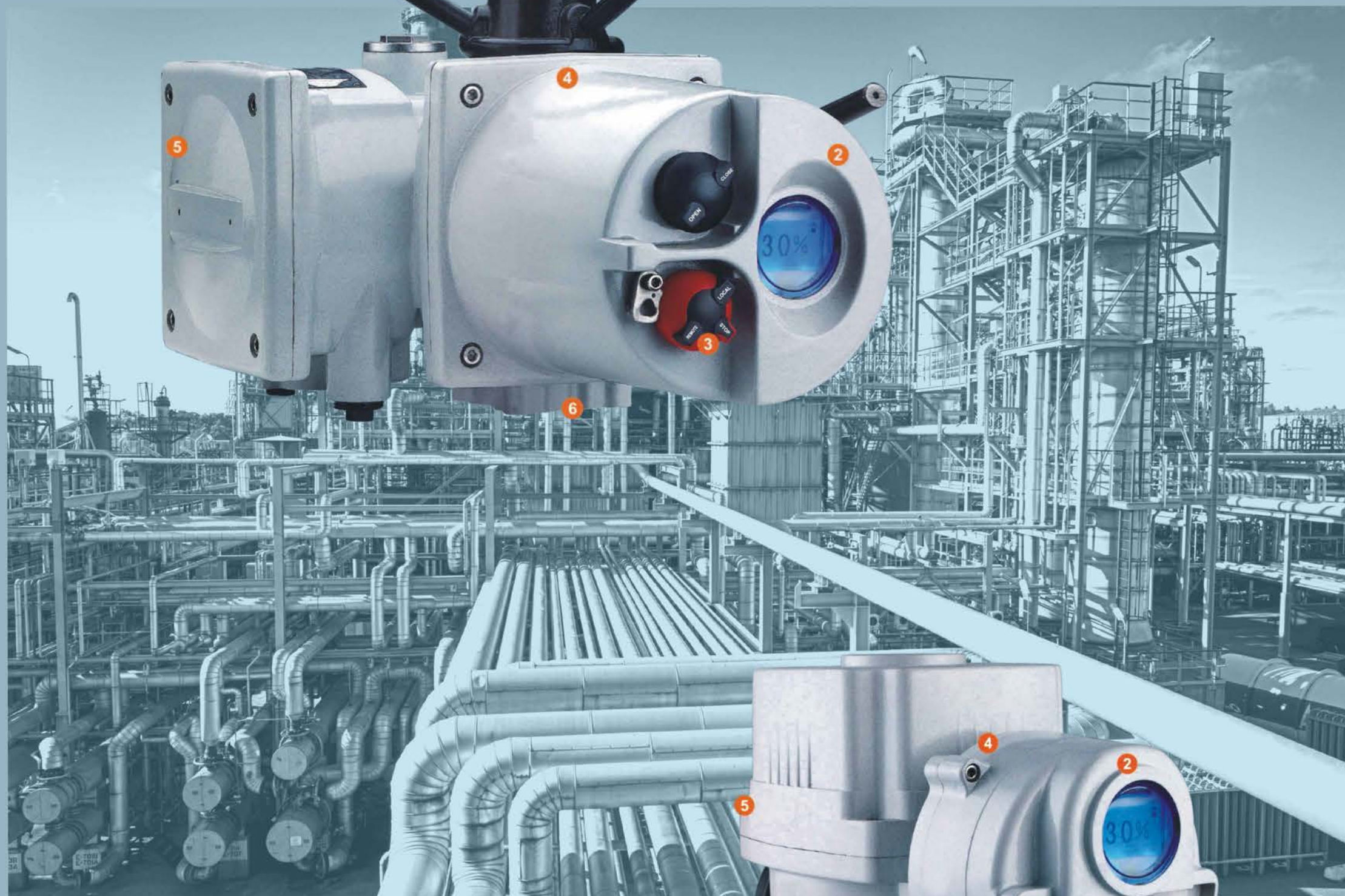


Foundation Fieldbus communication

Hurko actuator can be connected to a Foundation Fieldbus network by the inclusion of a Hurko actuator FF module. The device complies with fieldbus standard IEC 61158-2, using a 2 wire electrical connection to the highway and has been certified for inter-operability. The foundation highway exchanges data and control between devices and full actuator functionality is available. Each actuator has full link scheduler capability and function blocks for analogue and digital inputs and outputs as well as PID and the standard transducer block. Foundation Fieldbus networks are capable of operating without a host system as a supervisor, the field devices communicating directly between themselves.



» Advanced Engineering



4.Position Measurement:

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.

5.Motor:

Entire seal mouse cage type asynchronous machine. It has big force at start moment and small inertia, and can be appropriate to all kinds of valve system. The motor equips a hot protector, and can be one phase power supply motor or three phases power supply motor.

6.Interface unit:

The Interface unit including the foundation and the actuation wrap. Setup of foundation conforms to the ISO5211 standard. The actuation wrap can be easily connected to all kinds of valve shafts.

1.Handwheel operation:

Direct drive handwheel to provide reliable emergency manual operation in the event of a power supply failure.

Electric operation always has the higher priority than manual operation, when motor is energized that the operation state automatic switch to electric operation mode unless hand/auto lever is purposely locked into "manual operation"

2.Non-intrusive design:

Actuator covers need not be removed for site commissioning. All settings and adjustments are made using the supplied infra-red Setting Tool, including speed setting for the actuator. After assembly in the controlled environment of our manufacturing facilities, air exchanges are eliminated, all internal components are completely protected for life.

3.Local operation:

There are two knobs on the electric hood of actuator, one is a mode knob (red knob), the other one is operating knob (black knob). If local electromotion operation to be required, you must make the red knob go to "LOCAL" position, and control the actuator by the black knob.



The basic HK/HKM actuator is Multi-turn electric actuator. If client need the big output torque can select V series multi-turn gearbox. If the actuator applies to the part-turn valve, it should mount with D/C series part-turn gearbox. If applies to the control valve as linear motion, need mount with thrust unit and bracket.

Part-Turn Worm Gearbox:

Material: QT450 or WCB QA15
Torque: Up to 400,000Nm
Ratio: Up to 2500:1
Enclosure: IP65 IP68 Option
Flange: ISO5211



Multi-Turn Bevel Gearbox:

Material: QT450/WCB/
Torque: Up to 100,000Nm
Ratio: Up to 200:1
Enclosure: IP65 IP68 Option
Flange: ISO5211





4.1 HKM/HKE Series Multi-tum Modulating Duty Actuator Performance Table(Single Phase)

Output speed (rpm)		18	24	36	48	72	96	144	192
HKM03 HKE03	Modulation torque N.m	12	12	10	10				
	Max torque N.m	24	24	21	20				
HKM05 HKE05	Modulation torque N.m	20	18	15	13				
	Max torque N.m	42	38	33	27				
HKM10 HKE10	Modulation torque N.m	40	32	26	25	18			
	Max torque N.m	85	77	58	55	38			
HKM20 HKE20	Modulation torque N.m	70	70	55	42	42			
	Max torque N.m	133	133	107	89	89			
HKM50 HKE50	Modulation torque N.m	180	150	130	102	72			
	Max torque N.m	343	328	265	204	142			



4.2 HKM/HKE Series Multi-tum Modulating Duty Actuator Performance Table(3-Phase)

Output speed (rpm)		18	24	36	48	72	96	144	192
HKM03 HKE03	Modulation torque N.m	17	17	15.6	13.6				
	Max torque N.m	34	34	30	27				
HKM05 HKE05	Modulation torque N.m	34	34	30	27				
	Max torque N.m	61	54	54	48				
HKM10 HKE10	Modulation torque N.m	81	81	68	54	47			
	Max torque N.m	122	109	81	68	54			
HKM20 HKE20	Modulation torque N.m	152	152	129	102	102			
	Max torque N.m	204	204	163	136	136			
HKM50 HKE50	Modulation torque N.m	271	271	253	203	203			
	Max torque N.m	544	544	408	313	218			





4.3 HKML/HKEL Series Linear Actuator Performance Table(Single Phase)

Model	Output speed(rpm)	18	24	36	48	72
HKML03 HKEL03	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 speed mm/sec	0.9	1.2	1.8	2.4	
	Rated close stroke KN	13.00	13.00	11.38	10.84	
HKML05 HKEL05	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 speed mm/sec	0.9	1.2	1.8	2.4	
	Rated close stroke KN	22.76	20.60	17.89	14.63	
HKML10 HKEL10	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 speed 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
HKML10 HKEL10	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 speed 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
HKML20 HKEL20	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 speed 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
HKML20 HKEL20	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 speed 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

4.4 HKML/HKEL Series Linear Actuator Performance Table(3- Phase)

Model	Output speed(rpm)	18	24	36	48	72
HKML03 HKEL03	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 speed mm/sec	0.9	1.2	1.8	2.4	
	Rated close stroke KN	18.43	18.43	16.26	14.63	
HKML05 HKEL05	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 speed mm/sec	0.9	1.2	1.8	2.4	
	Rated close stroke KN	33.06	29.27	29.27	26.02	
HKML10 HKEL10	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 speed 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
HKML10 HKEL10	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 speed 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
HKML20 HKEL20	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 speed 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
HKML20 HKEL20	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 speed 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



3.1 HK/HKC Series Multi-tum ON-OFF Duty Actuator Performance Table(Single Phase)

Output speed (rpm)		18	24	36	48	72	96	144	192
HK03 HKC03	Rated torque N.m	20	20	17	15				
HK08 HKC08	Rated torque N.m	24	24	20	17				
HK14 HKC14	Rated torque N.m	32	28	22					
HK20 HKC20	Rated torque N.m	81	81	81	63	63			
HK40 HKC40	Rated torque N.m	142	142	127	108				
HK60 HKC60	Rated torque N.m	252	232	184	147	109			



3.2 HK/HKC Series Multi-tum ON-OFF Duty Actuator Performance Table(3-Phase)

Output speed (rpm)		18	24	36	48	72	96	144	192
HK03 HKC03	Rated torque N.m	34	34	34	34	34	34		
HK08 HKC08	Rated torque N.m	81	81	81	81	61	47		
HK14 HKC14	Rated torque N.m	108	136	102					
HK20 HKC20	Rated torque N.m	203	203	203	203	176	142	120	
HK30 HKC30	Rated torque N.m	350	300	250					
HK40 HKC40	Rated torque N.m	400	400	298	244				
HK60 HKC60	Rated torque N.m	610	610	542	474	474	366	275	
HK100 HKC100	Rated torque N.m	1020	1020	845	680	680	542	406	
HK150 HKC150	Rated torque N.m	1490	1490	1290	1020	1020	745	645	542
HK200 HKC200	Rated torque N.m	2030	2030	1700	1355	1355	1020	865	730
HK201 HKC201	Rated torque N.m							1355	1355
HK300 HKC300	Rated torque N.m		3000						



HKJ/HKJM Performance Summaries

3.1 Part-tum Actuator Performance Table(Single Phase)

3.1.1 HKJ Series ON-OFF Duty Actuator

Model	Max output torque	Rated torque	Ttavel time	Max stem of valve	Motor power	Rated currenxy	Hand wheel number	Weight
	N.m	N.m	s	mm	W	A	n	kg
HKJ06	60	50	17	22	15	0.53	8.5	11
HKJ09	90	75	17	22	25	0.60	8.5	11
HKJ15	150	125	20	22	40	0.80	10	12
HKJ19	190	160	20	22	45	1.10	10	13
HHJ28	280	235	25	32	50	1.20	12.5	17
HKJ38	380	320	25	32	60	1.40	12.5	18
HKJ50	500	420	25	32	90	1.70	12.5	19
HKJ60	600	500	29	42	90	1.70	14.5	22
HKJ80	800	670	29	42	140	2.00	14.5	23
HKJ100	1000	840	29	42	180	2.40	14.5	25
HKJ150	1500	1250	87	75	90	1.70	43.5	68
HKJ200	2000	1670	87	75	140	2.00	43.5	70
HKJ250	2500	2100	87	75	180	2.40	43.5	70

3.1.2 HKJM Series Modulating Duty Actuator

Model	Max output torque	Modulation torque	Ttavel time	Max stem of valve	Motor power	Rated currenxy	Hand wheel number	Weight
	N.m	N.m	s	mm	W	A	n	kg
HKJ06	50	25	17	22	15	0.45	8.5	11
HKJ09	80	40	17	22	25	0.58	8.5	11
HKJ15	130	70	20	22	40	0.95	10	12
HKJ19	160	85	20	22	45	0.95	10	13
HHJ28	260	130	25	32	50	0.95	12.5	17
HKJ38	350	175	25	32	60	1.30	12.5	18
HKJ50	420	230	25	32	90	1.50	12.5	19
HKJ60	520	270	29	42	90	1.50	14.5	22
HKJ80	700	360	29	42	140	2.15	14.5	23
HKJ100	880	450	29	42	180	2.45	14.5	25
HKJ150	1350	720	87	75	90	1.50	43.5	68
HKJ200	1800	950	87	75	140	2.15	43.5	70
HKJ250	2300	1100	87	75	180	2.45	43.5	70

HKJ/HKJM Performance Summaries



Part-tum Actuator Performance Table(3-Phase)

Model	Max output torque	Modulation torque	Ttavel time	Max stem of valve	Motor power	Rated currenxy	Hand wheel number	Weight
	N.m	N.m	s	mm	W	A	n	kg
HKJ/HKJM06	60	50	17	22	15	0.25	8.5	11
HKJHKJM09	90	75	17	22	25	0.28	8.5	11
HKJHKJM15	150	125	20	22	40	0.39	10	12
HKJHKJM19	190	160	20	22	45	0.50	10	13
HHJHKJM28	280	235	25	32	50	0.40	12.5	17
HKJHKJM38	380	320	25	32	60	0.45	12.5	18
HKJHKJM50	500	420	25	32	90	0.73	12.5	19
HKJHKJM60	600	500	29	42	90	0.73	14.5	22
HKJHKJM80	800	670	29	42	140	0.80	14.5	23
HKJHKJM100	1000	840	29	42	180	0.98	14.5	25
HKJHKJM150	1500	1250	87	75	90	0.73	43.5	68
HKJHKJM200	2000	1670	87	75	140	0.80	43.5	70
HKJHKJM250	2500	2100	87	75	180	0.98	43.5	70



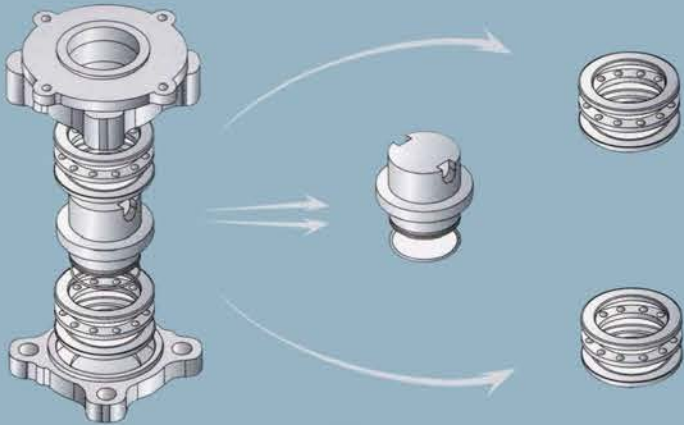


There are two kinds of base for HK/HKM actuator. HK100, HK150, HK200, HK201 and HK300 are integral type. HKM03, HKM05, HKM10, HKM20, HKM55 are disassemble type.

These two kinds of base are including flange and driving bush that comply with ISO 5210 or MSS SP-102 standard



Thrust Type Disassemble Base



Thrust type



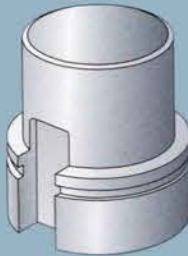
Non-thrust type disassemble base



B1 type



B3 type

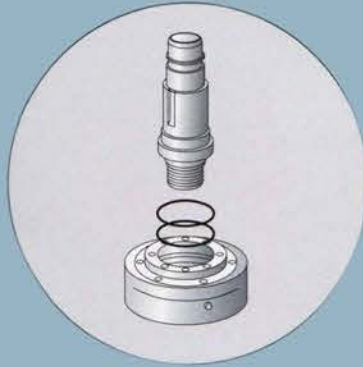


B4 type

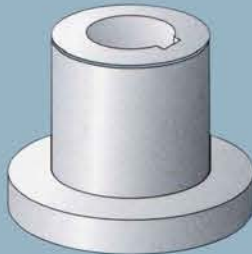
Non-thrust type



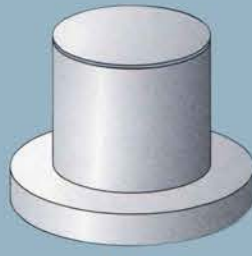
Drive bush can be machined according to stem of valve so that simplify the connection with valve and easy to disassembly. The design of base and drive bush of HK/HKM comply with ISO5211 or MSS SP-101 standard.



Non-thrust type undetachable base



B3 type



B4 type

Non-thrust type

B3 suitable for HK100-HK250 HKC100-HKC250 actuator with fixed shaft hole,the hole and key way are comply with ISO5210 standard..
B4 suitable for HK100-HK250 actuator without shaft hole. Which need to be machined by user

Model-interface dimensions table.

Actuator mode	HK03-14 HKM03-05	HK20-40 HKM10-20	HK60 HKM55	HK100	HK150	HK200	HK250	HK300
A type interface(thrust type)rated thrust								
rising stem(max)	32	51	67	73	83	83	-	83
Non-Rising stem(max)	26	38	51	57	73	73	-	73

B type interface(non-thrust)rated thrust								
B1 type(fixed hole)mm	42	60	80	-	-	-	-	-
B3 type(fixed hole)mm	20	30	40	50	50	50	50	-
B4 type(max)mm	20	30	44	50	60	60	60	-

Flange	F10	F14	F16	F25	F25	F30*	F25	F30
Net weight(kg)	33	55	80	235	258	258	238	258



Oil Refinery Plant



Oil Depot



Sewage Treatment Plant



Power Station

HK series actuators are suitable for intermittent control in automatic control loops that the system rate of change is 60 starts per hour (600 starts per hour is option). For the long stroke, it should providing the average torque required by the valve in mid stroke does not exceed 33% of the rated torque of the selected actuator. The HK actuator continual operation time is 15 minutes and motion proportion is 33.3%.

HKM Series are suitable for proportional control in automatic control loops that the system rate of change is relatively high, and high accuracy continuous modulation is necessary. When modulating applications require increased rates of starts per hour, the HKMM actuator ranges can be operated up to a rate of 1200 starts per hour providing the average torque required by the valve in mid stroke does not exceed 33% of the rated torque of the selected actuator.



HURKO



FUTURE

www.hurko-actuator.com

Yesterday

When Hurko established in 2005, Hurko got things moving with soaring ambition and full of enthusiasm. Hurko has gone through thick and thin during the more years of hard time.

Today

Hurko pioneers remarkable technical skills. The sense of contributing to new movement in modern industry, excellent team, scientific and applicable management system, combined with hi-tech, top-class equipments. The new outlook, new overall arrangement presents a new Hurko.

Tomorrow

More prosperous future All Hurko staff team up and endeavor to shape the trademark-Linuo a top class one in the whole world.



We are dedicating
To providing
Best technical
Act for
Customers.