POV Valves Co.,Ltd

POQ Manual

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POQ series manual

Contents

Thank you for purchasing the POQ electric -actuator from our company.
Before the Installation of various components, Installation of field equipments and operation, please read this manual carefully.
Follow the instruction in the manual will bring convenience and efficiency to your work.

POQ Series Manual

1.Product Description

POQ series electric actuator is a new generation product developed by our company's latest technology.

The product adopts a variety of power supply voltage methods, which has stronger usability. Product shell the use of aluminum alloy material makes the equipment more lightweight, and at the same time, it is necessary to ensure that the product can be pressure resistance and ensure the safety of internal electronic control.

The product adopts a closed seal design, has obtained IP67 certification, and the internal standard is equipped with anti-corrosion tide resistance, the explosion-proof grade of explosion-proof products is Ex d ⅡBT4 ⅡT6Or Ex d ⅡCT4 ⅡT6.

Widely used in a variety of industrial fields, including: metallurgy, petroleum, chemical, power plants,printing and dyeing, water treatment, shipbuilding, papermaking, food processing, pharmaceuticals and building automation many industries such as chemical systems.

2.Standard parameter

Shell	Protection grade IP67 Nema 4 and 6 Option: Ip68
Ambient temperature	-25℃ to +70℃
Environment humidity	< 90% RH
Power supply	Single-phase: 24V, 110V, 220V, 230V, 240V 50/60Hz Three-phase: 220V, 380V, 415V,440V 50/60Hz DC: DC24V
Torque switch	On (NO) / off (OFF), SPDT 250V AC 10A (except POQ-006, POQ-010)
Limit switch	On (NO) / off (OFF), SPDT 250V AC 10A
Motor overheat protection	Built-in thermal protection 120℃±5℃
Stroke	90°±5°(0°~270°Optional)
Indicator	360°Angle of view indication (flameproof type: continuous position indication)
Manual operation	POQ-006~POQ-060 Manual/automatic clutch mechanism POQ-080~POQ-2000 No clutch required
Self-locking device	Worm gear and worm mechanism provide
Mechanical limit	External adjustable bolt
Desiccator	Aluminum alloy moisture-proof resistance (anti-condensation)
Wiring hole	Standard：2-NPT3/4” Optional customization：M20～M25、PG13.5、PG16、PT3/4″、PF3/4″
Grease	Molybdenum disulfide grease (EP type)
Main material	Aluminum, steel, aluminum blue steel, 35CrMo, etc.
Exterior coating	Epoxy polyester powder coating
Seismic performance	Direction：x, z, y; Maximum acceleration：12g; Sweep frequency：10-55Hz; Amplitude：0.15mm; Time 30 minutes
Infrared remote control	No opening setting
Explosion-proof grade	Optional：EXd II BT5 EXd II Ct5
Potentiometer	Optional：1K-5K
Proportional control unit	Input Output：4-20mA
Field control unit	Optional：Process control on/off/off knob
Bus control unit	Optional
Bluetooth communication	Optional
GPRS wireless control	Optional

3.The main technical parameters

Model	Output torque		On/off time (90/sec)			Protection level	Motor		Duty Cycle (CSA)	Shaft diameter (mm)		Installation size	Number of Handwheel turns	Weight
	N.m	Kg.m	50Hz	60Hz	DC24V	IP	Power (W)	Insulation grade	S4(%)	Round hole	Square	ISO 5211		Kg
POQ-006	60	6	27	23	21	67/68	20	F	50	20	17	F05/F07	10	6.9
POQ-010	100	10	27	23	21	67/68	20	F	50	20	17	F05/F07	10	6.9
POQ-016	160	16	28	24	22	67/68	40	F	50	28	22	F07/F10	12	16.4
POQ-020	200	20	28	24	22	67/68	40	F	50	28	22	F07/F10	12	16.4
POQ-030	300	30	32	27	25	67/68	60	F	50	28	22	F10/F12	14	20.5
POQ-050	500	50	32	27	25	67/68	90	F	30	28	22	F10/F12	14	20.5
POQ-060	600	60	32	27	25	67/68	120	F	25	28	22	F10/F12	14	20.5
POQ-080	800	80	38	33	29	67/68	120	F	25	36	27	F10/F12 /F14	14.2	33.4
POQ-100	1000	100	43	37	33	67/68	120	F	25	36	27	F10/F12 /F14	14.2	33.4
POQ-130	1300	130	49	42	37	67/68	120	F	25	36	27	F10/F12 /F14	14.2	33.4
POQ-170	1700	170	34	28	26	67/68	200	F	25	45	36	F12/F14 /F16	16	44
POQ-200	2000	200	47	39	36	67/68	200	F	25	45	36	F12/F14 /F16	16	44
POQ-230	2300	230	47	39	36	67/68	200	F	25	45	36	F12/F14 /F16	16	44
POQ-350	3500	350	78	67	60	67/68	200	F	25	72	46	F14/F16	37	80
POQ-500	5000	500	108	92	82	67/68	200	F		72	46	F14/F16	37	80
POQ-800	8000	800	142	118	107	67/68	200	F		80	55	F16/F25	48	107
POQ-1300	13000	1300	102	86	—	67/68	900	F		95	75	F25/F30	132	250
POQ-1600	16000	1600	120	102	—	67/68	900	F		95	75	F25/F30	132	250
POQ-2000	20000	2000	147	123	—	67/68	900	F		95	75	F25/F30	132	250

4.Rated/starting current

Model	AC24V 50Hz		AC24V 60Hz		AC110V 50Hz		AC110V 60Hz		AC220V 50Hz		AC220V 60Hz		AC380V 50Hz		AC380V 60Hz		AC440V 50Hz		AC440V 60Hz		DC24V	
	Rated (A)	Start (A)	Rated (A)	Start (A)	Rated (A)	Start (A)	Rated (A)	Start (A)	Rated (A)	Start (A)	Rated (A)	Start (A)	Rated (A)	Start (A)	Rated (A)	Start (A)	Rated (A)	Start (A)	Rated (A)	Start (A)	Rated (A)	Start (A)
POQ 006	4.2	6.6	5.1	7	1.1	1.52	1.3	1.65	0.52	0.73	0.64	0.78	0.18	0.35	0.15	0.32	0.15	0.3	0.12	0.26	2.53	7.78
POQ 010	4.2	6.6	5.1	7	1.1	1.52	1.3	1.65	0.52	0.73	0.64	0.78	0.18	0.35	0.15	0.32	0.15	0.3	0.12	0.26	2.53	7.78
POQ 016	5.5	7.1	7	8.1	1.4	1.8	1.8	1.9	0.72	0.9	0.92	1	0.28	0.68	0.24	0.63	0.25	0.52	0.21	0.5	4.2	11
POQ 020	5.5	7.1	7	8.1	1.4	1.8	1.8	1.9	0.72	0.9	0.92	1	0.28	0.68	0.24	0.63	0.25	0.52	0.21	0.5	4.2	11
POQ 030	9.2	17.8	11.2	17.7	2.5	4.4	2.4	4.5	1.42	2.5	1.4	2.31	0.38	1.1	0.32	0.92	0.28	0.75	0.25	0.7	5.7	26
POQ 050	9.2	17.8	11.2	17.7	2.4	4.2	3.2	4.3	1.38	2.3	1.65	2.2	0.41	1.16	0.37	1.1	0.3	0.9	0.27	0.85	7.3	23
POQ 060	12.8	25	13.5	24.1	3.1	6	3.5	5.8	1.75	3.3	1.92	3.1	0.41	1.16	0.37	1.1	0.3	0.9	0.27	0.85	7.3	23
POQ 080	12.8	25	13.5	24.1	3.1	6	3.5	5.8	1.75	3.3	1.92	3.1	0.41	1.16	0.37	1.1	0.3	0.9	0.27	0.85	7.3	23
POQ 100	12.8	25	13.5	24.1	3.1	6	3.5	5.8	1.75	3.3	1.92	3.1	0.41	1.16	0.37	1.1	0.3	0.9	0.27	0.85	7.3	23
POQ 130	12.8	25	13.5	24.1	3.1	6	3.5	5.8	1.75	3.3	1.92	3.1	0.41	1.16	0.37	1.1	0.3	0.9	0.27	0.85	7.3	23
POQ 170	12.5	26.6	14.6	25.4	3.3	7	3.8	6.7	1.52	3.54	1.94	3.3	0.8	2.3	0.72	2.1	0.62	1.9	0.6	1.8	17	55
POQ 200	12.5	26.6	14.6	25.4	3.3	7	3.8	6.7	1.52	3.54	1.94	3.3	0.8	2.3	0.72	2.1	0.62	1.9	0.6	1.8	17	55
POQ 230	12.5	26.6	14.6	25.4	3.3	7	3.8	6.7	1.52	3.54	1.94	3.3	0.8	2.3	0.72	2.1	0.62	1.9	0.6	1.8	17	55
POQ 350	12.5	26.6	14.6	25.4	3.3	7	3.8	6.7	1.52	3.54	1.94	3.3	0.8	2.3	0.72	2.1	0.62	1.9	0.6	1.8	17	55
POQ 500	12.5	26.6	14.6	25.4	3.3	7	3.8	6.7	1.52	3.54	1.94	3.3	0.8	2.3	0.72	2.1	0.62	1.9	0.6	1.8	17	55
POQ 800	12.5	26.6	14.6	25.4	3.3	7	3.8	6.7	1.52	3.54	1.94	3.3	0.8	2.3	0.72	2.1	0.62	1.9	0.6	1.8	17	55
POQ 1300													2.6	5.4	1.7	5.73						
POQ 1600													2.6	5.4	1.7	5.73						
POQ 2000													2.6	5.4	1.7	5.73						

5.Actuator installation

1. Installation site

1.1 Installation Precautions

- For installation in places with explosive gas, explosion-proof actuators need to be ordered;
- Please specify in advance if the installation is submerged;
- When installing the cable on site, its outer diameter must be in line with the cable that is compatible with the inner diameter of the waterproof connector, otherwise the outdoor rainwater can enter the actuator from the waterproof cable connector and damage the internal parts;
- Please reserve space for wiring and manual operation and maintenance;

1.2 Ambient temperature

- The ambient temperature is -25℃+70℃ (other temperatures can be customized);
- When the ambient temperature is lower than -25℃ or higher than 70℃ please contact the technical department of our company in advance to propose specific solutions; (all series of standard dryers)

1.3 Pipeline fluid temperature conditions

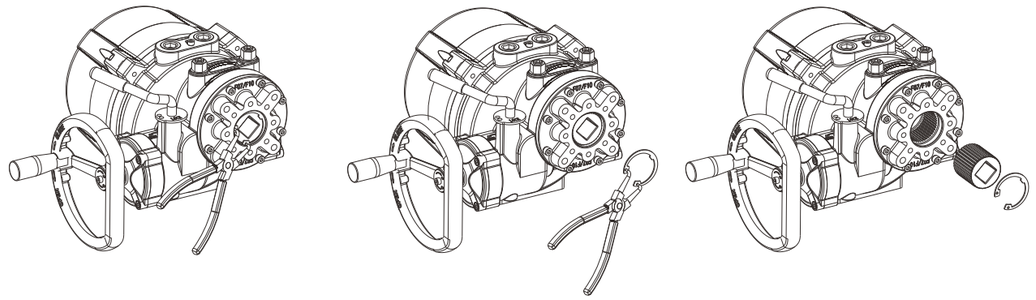
- When used with a valve, the heat of the fluid in the pipeline will be transferred to the actuator, and the temperature of the actuator housing will rise; if the on-site pipeline fluid is higher than 80℃, please contact our company in advance.Contact with the Ministry to propose a specific solution; (the connection with the valve needs to increase the bracket for heat insulation)

1.4 Pipeline high frequency vibration conditions

- Intelligent actuators under high-frequency vibration conditions require separate installation;

2. Actuator output connection

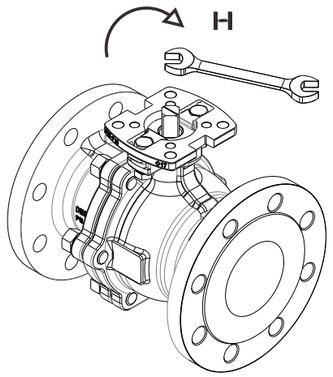
- The flange mounting hole at the bottom of the actuator is ISO5211 standard. If the valve connection size does not conform to the standard, please contact our company's technical department in advance to propose a specific solution; (before leaving the factory)(According to customer requirements, re-punch holes or produce brackets and connecting sleeves)
- According to the different connecting spindles of the valve, the inner hole at the bottom of the actuator can be replaced with different sizes such as square holes, round holes and bilateral holes; the replacement method is simple, just use circlip pliers to take out the spline sleeve bottom the circlip can be replaced;

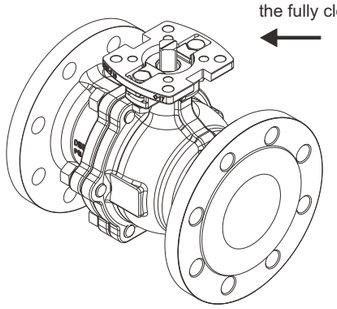


5.Actuator installation

3. Installation sequence of actuator and valve

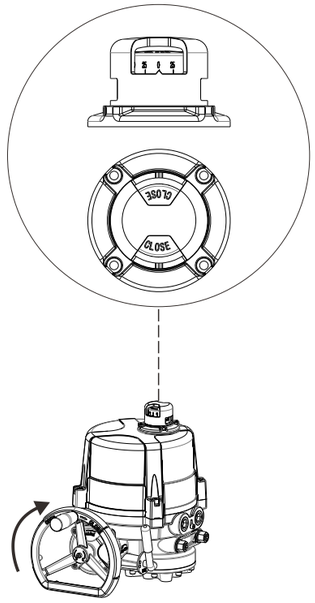
1





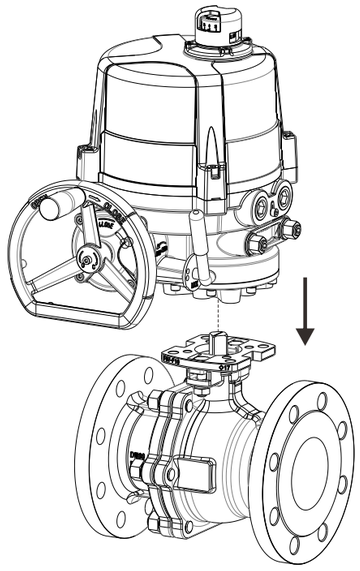
Ensure that the valve reaches the fully closed position

2



Turn the handwheel to make the actuator reach the fully closed position

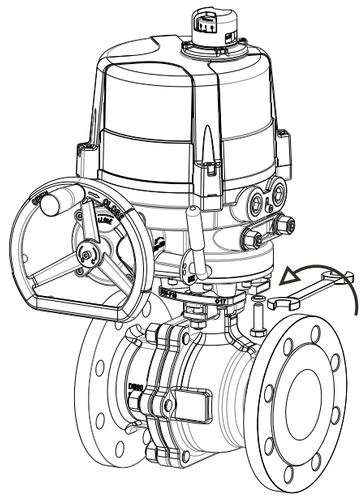
3



Slightly turn the hand wheel to instal the actuator on the valve

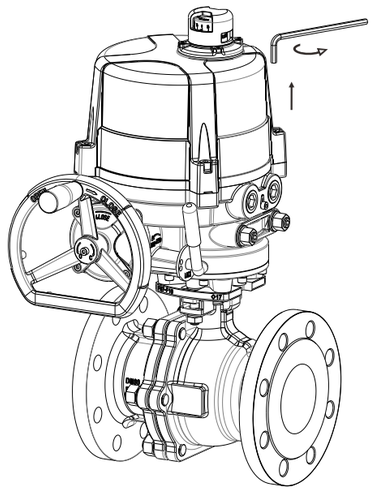
5.Actuator installation

4



Tighten the bolts and manually adjust the actuator switch

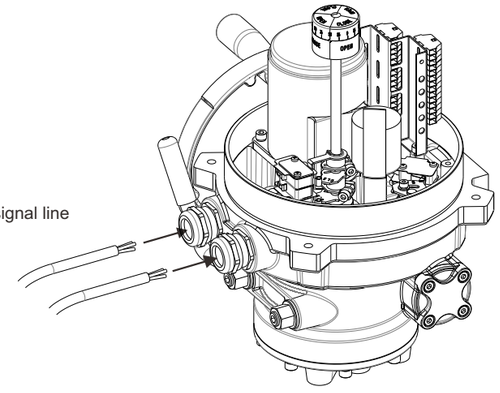
5



6mm/8mm/10mm

6

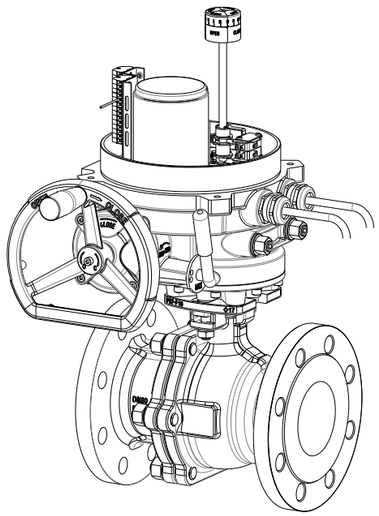
Separately connect the power line and signal line



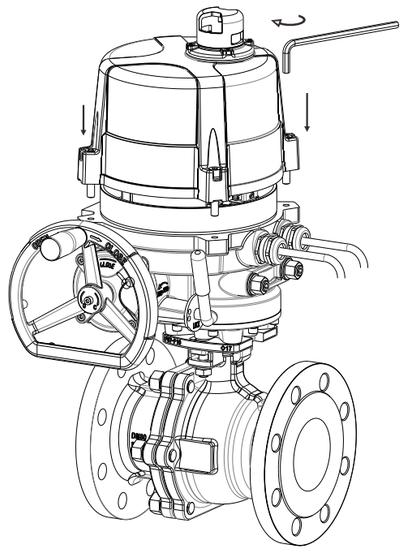
Note: This figure only shows the installation sequence and can be used as a reference. The actual actuator shall prevail.

5.Actuator installation

7



8



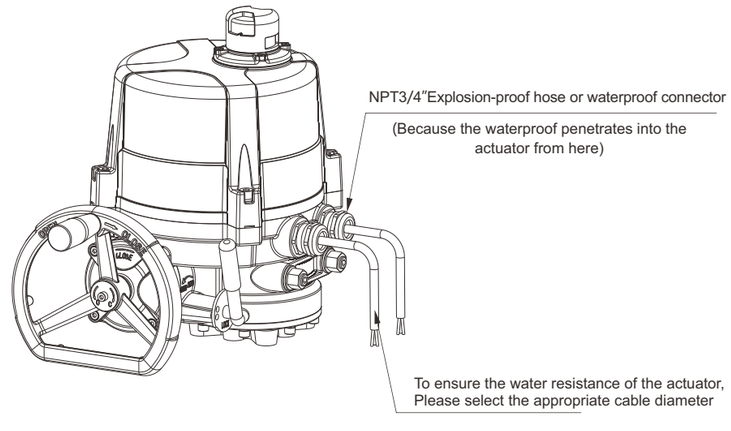
4. Electrical wiring

- Remove the plug for external cable access, please use an explosion-proof connector or explosion-proof cable hose with an external thread of NPT3/4";
- If the cable connector does not meet the electrical interface of the actuator, it may cause the internal sealing level to drop and fail to meet the protection requirements, or the actuator will be damaged by water entering the inside;
- When using electrical wires, take full waterproof measures;
- Remove the upper cover of the actuator, use a flat-blade screwdriver to press down the metal shrapnel in the small hole on the terminal, and at the same time the wire is smoothly inserted into the side terminal hole, pull out the screwdriver, the internal spring clamping mechanism of the terminal can reliably clamp the wire;

POQ Series Manual

5.Actuator installation

9



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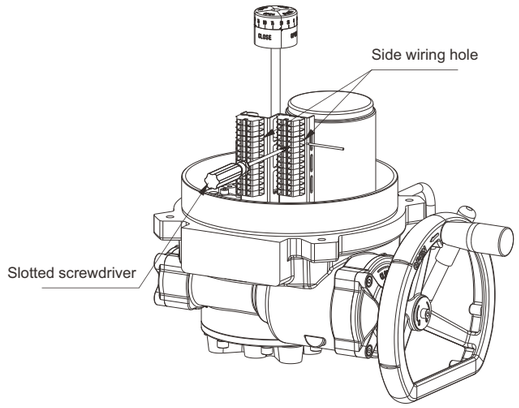


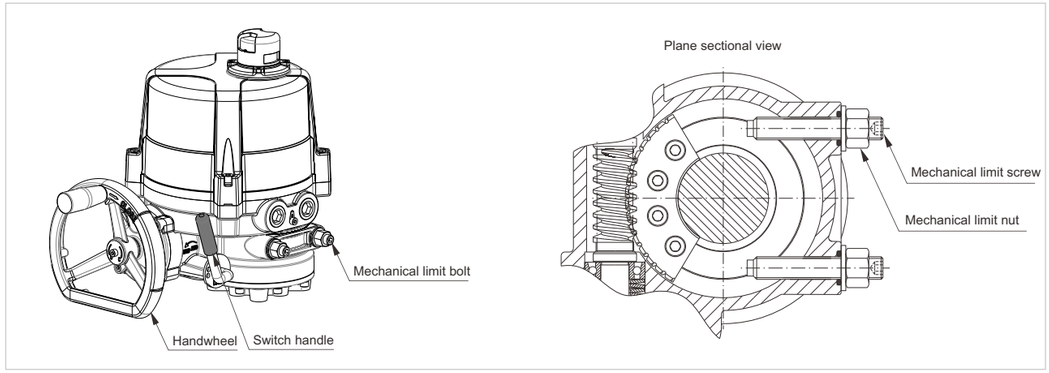
Note:

1. Before completing the wiring check, do not switch on the power supply. Short-circuit and wrong wiring will cause permanent damage to the actuator!
2. Please pay attention to the switch instructions, please do not use brute force on the hand wheel/handle when it exceeds the fully open and fully closed positions, so as not to cause damage to the actuator mechanism!

6. Debugging instructions for actuator

6.1 Mechanical limit adjustment

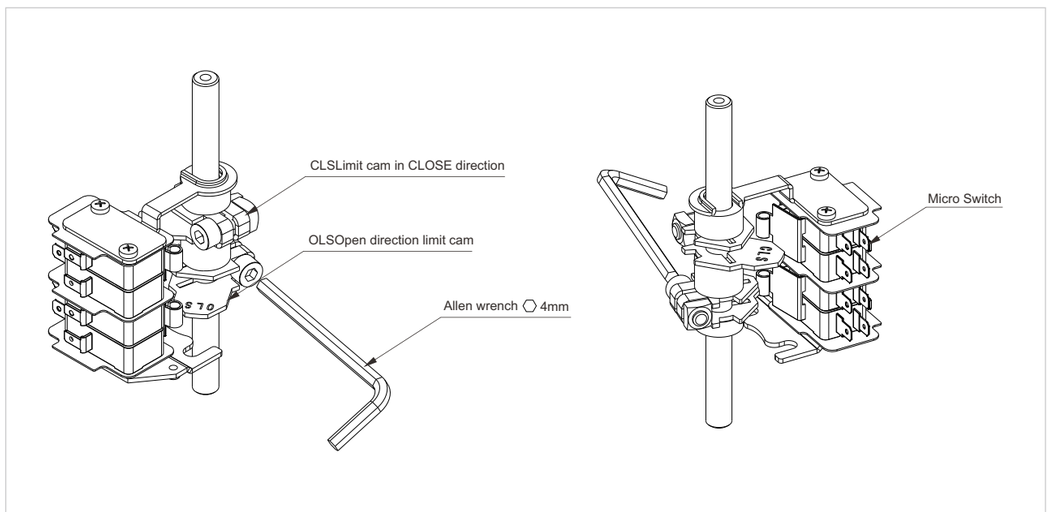
Loosen the mechanical limit screw and limit nut, turn the handwheel with the left hand and press the switch handle with the right hand in the direction of the arrow to engage the internal clutch of the mechanism to reach the manual function state (switching hand when the power is turned on) The handle automatically resets without human intervention), continue to rotate the handwheel clockwise to move the actuator to the fully closed position, rotate the limit screw, and stop turning when it hits the internal sector worm gear.Rotate two turns to the left, and finally tighten the nut. In this way, the position of the mechanical limit when the actuator is fully closed is set. Rotate the handwheel in the fully open position counterclockwise and set it in the same way.



Note: POQ series 006 type to 060 type manual switch requires a switch handle (automatic reset function when power is on), 080 type to 2000 type does not need a switch handle

6.2 Electronic travel limit adjustment

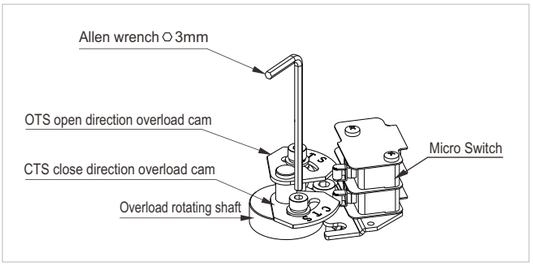
Manually close the valve to the position to loosen the switch direction limit cam, adjust it to the position where the limit switch is just pressed down, and then lock the limit cam, so that the position of the electrical limit when the actuator is fully closed is adjusted; The position when fully open can be set in the same way;



6. Debugging instructions for actuator

6.3 Adjustment of overload protection device

Under the normal working pressure of the valve, adjust the overload cam so that it just touches the roller of the corresponding micro switch, but it can't be pressed. When the required torque to openor close the valve is greater than the factory rated torque, the overload rotating shaft will rotate clockwise or counterclockwise, driving the upper overload cam to press the micro switch to stop the function and output a set of over torque indications. To protect the electric valve from damage.



Note: The overload protection device has been adjusted before leaving the factory, in principle, no further adjustment is required; if adjustment is required, the valve needs to be adjusted under normal working pressure conditions

6.4 Potentiometer adjustment

The potentiometer is used as a feedback output in the actuator, and there are three output terminals, of which the terminal pin ② is connected to the sliding arm of the potentiometer. When the terminal pin of ① is connected to the actuator to open, the resistance between it and the sliding arm keeps decreasing one end; when the pin of terminal ③ is connected to the actuator to close the action,the resistance to the sliding arm keeps decreasing one end (note: potentiometer) There should be no resistance value crossing zero, umping phenomenon). Use the handwheel to turn the valve to the fully open position, and use a multimeter to measure it, and adjust the resistance of the terminals ① ② on the wiring terminals to between 40Ω and 65Ω. If it is not correct, it can be adjusted by turning the transmission gear on the potentiometer.

6.5 Position indicator adjustment

First close the valve to the correct position, disassemble the 3D window protective cover and 3D transparent protective cover, use an Allen key to loosen the 3D indicator column, rotate it to the correct position and lock it, and then reset and install it in turn (Picture 1) . First close the valve to the correct position, disassemble the Ex upper cover, loosen the indicator plate with a Phillips screwdriver, rotate it to the positive position and lock it, and then reset and install it in sequence (Figure 2).

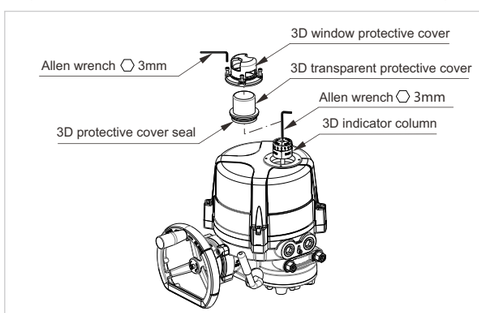


Figure 1

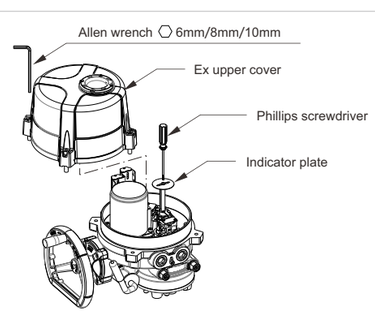
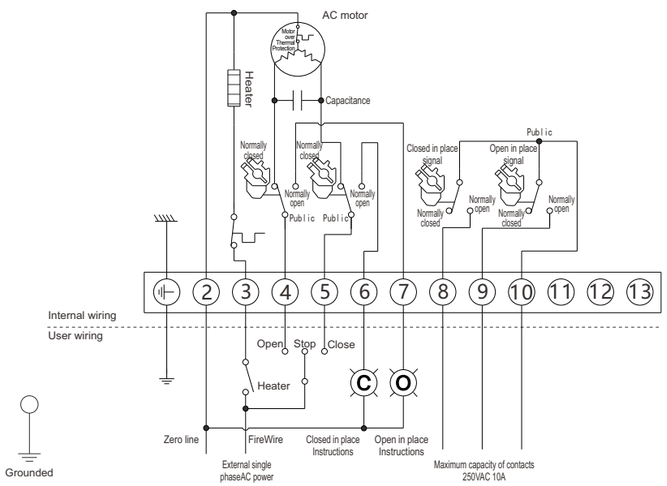


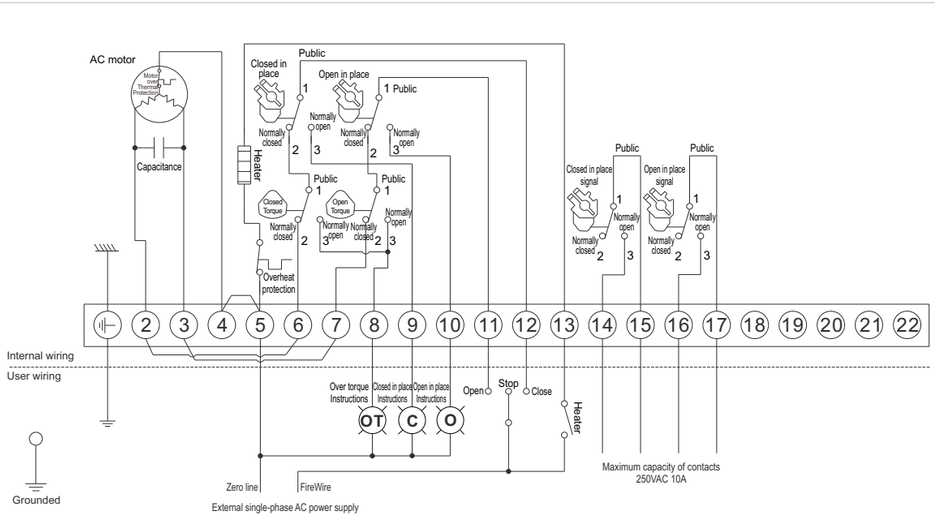
Figure 2

7.Wiring diagram

7.1 POQ-006B/K1~010B/K1 AC24V, AC110V, AC220V-50Hz/60Hz (BASIC ON-OFF TYPE)

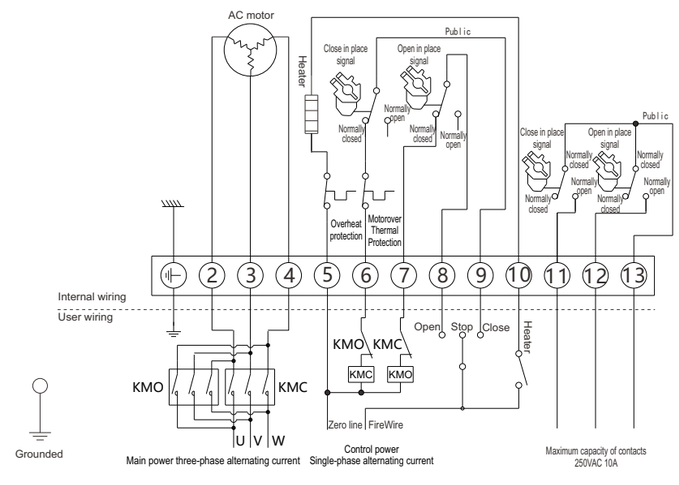


7.2 POQ-016B/K1~800B/K1 AC24V, AC110V, AC220V-50Hz/60Hz (BASIC ON-OFF TYPE)

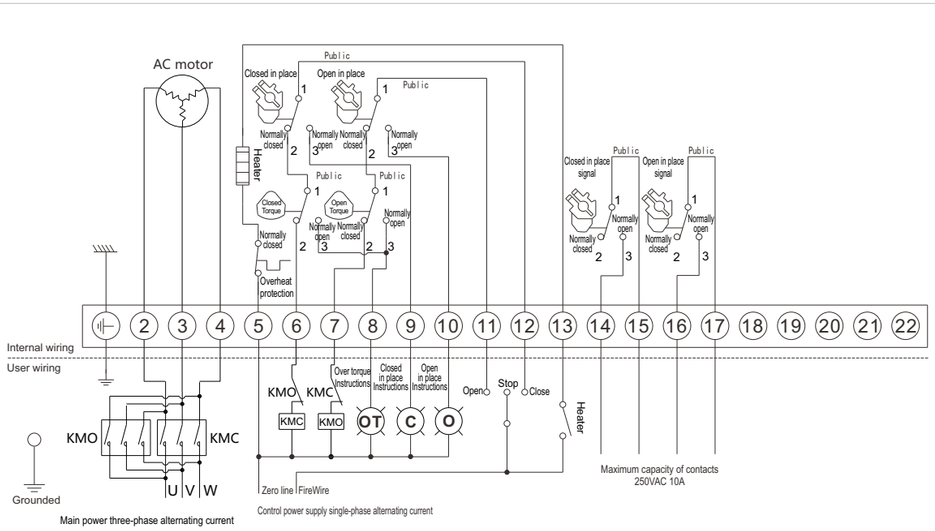


7.Wiring diagram

7.3 POQ-006B/K1~010B/K1 AC380V, AC440V-50Hz/60Hz(BASIC ON-OFF TYPE)

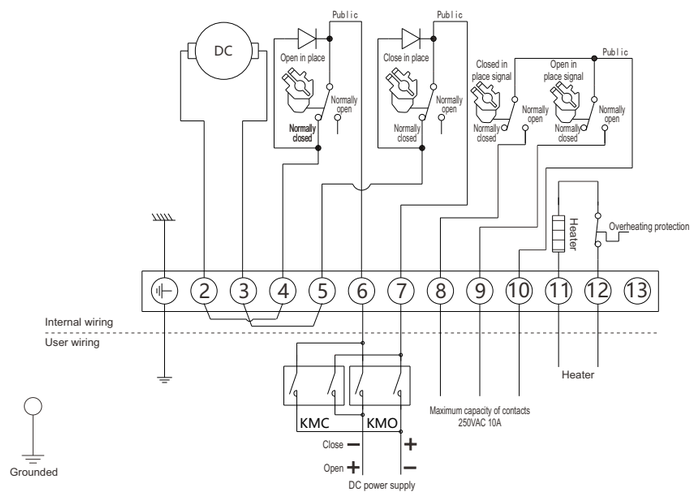


7.4 POQ-016B/K1~2000B/K1 AC380V, AC440V-50Hz/60Hz (BASIC ON-OFF TYPE)

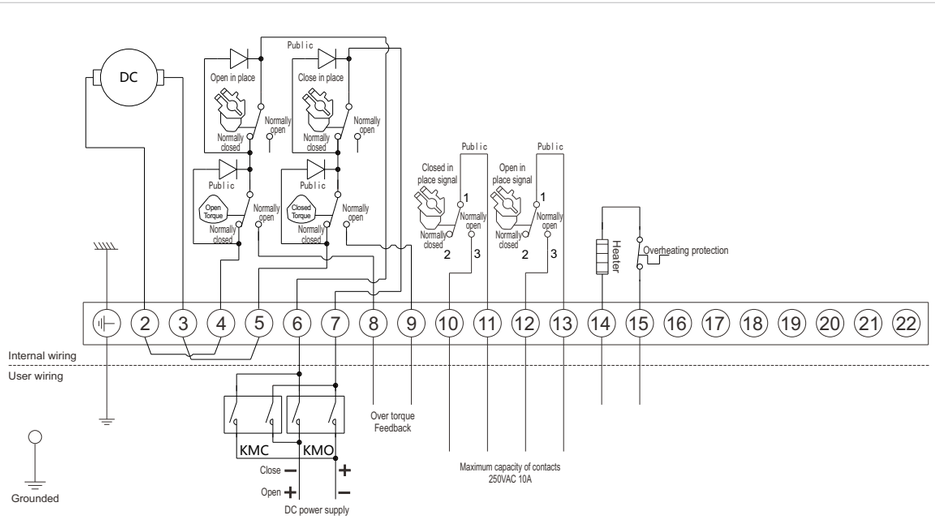


7.Wiring diagram

7.5 POQ-006B/K1~010B/K1 DC24V-50Hz/60Hz (BASIC ON-OFF TYPE)

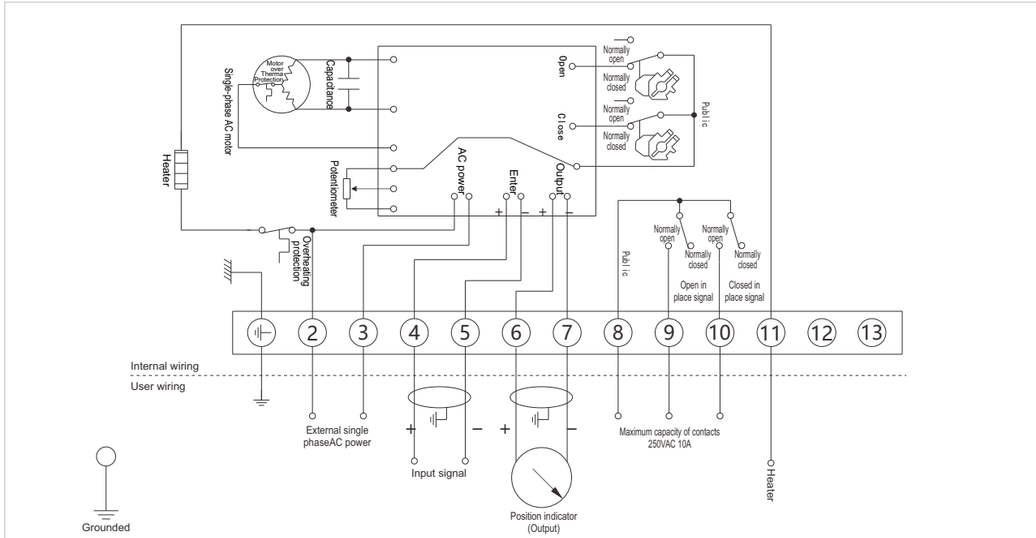


7.6 POQ-016B/K1~800B/K1 DC24V-50Hz/60Hz (BASIC ON-OFF TYPE)

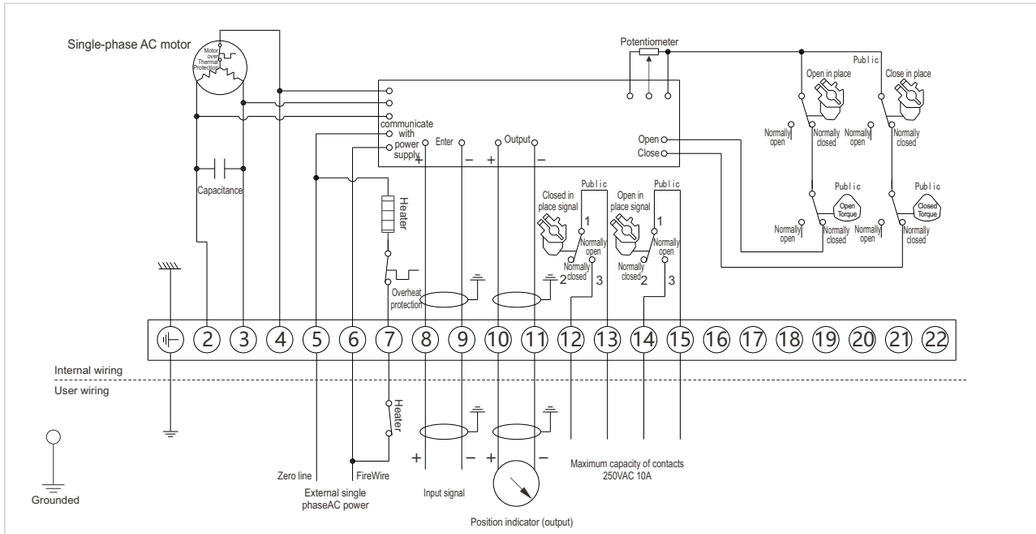


7.Wiring diagram

7.7 POQ-006G/K2~010G/K2 AC110V, AC220V-50Hz/60Hz (COMMON MODULATING TYPE)

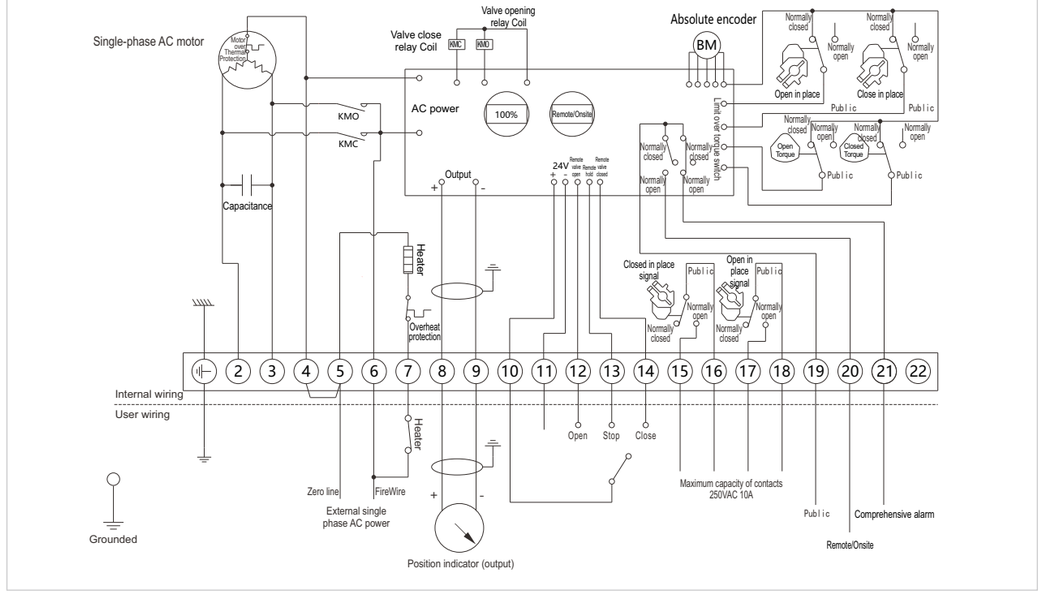


7.8 POQ-016G/K2~800G/K2 AC110V, AC220V-50Hz/60Hz (COMMON MODULATING TYPE)

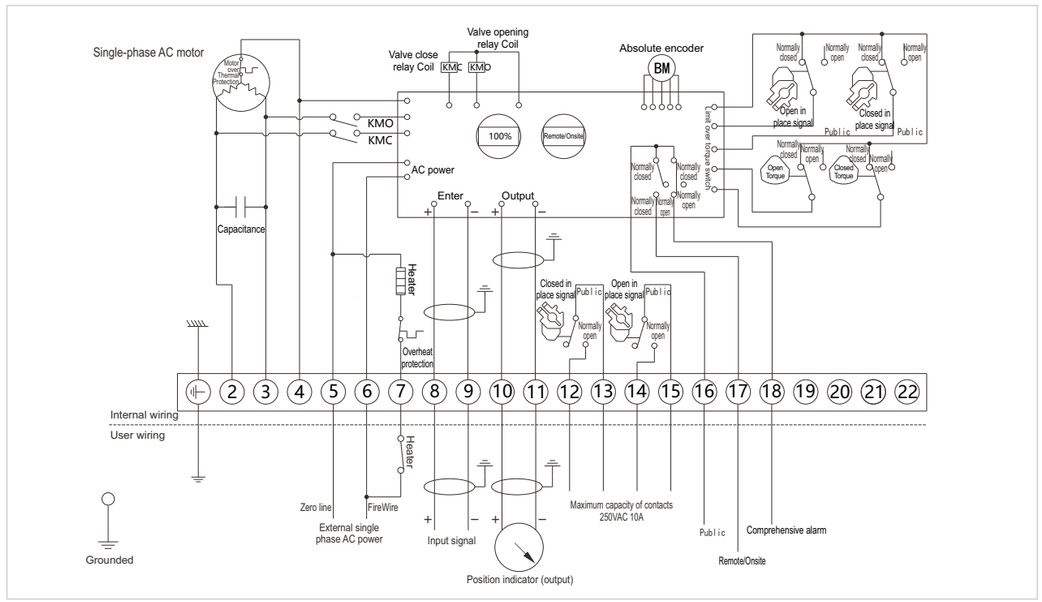


7.Wiring diagram

7.9 POQ-006Y/K1~800Y/K1 AC110V, AC220V-50Hz/60Hz (Non-intrusive intelligent integrated ON-OFF type)

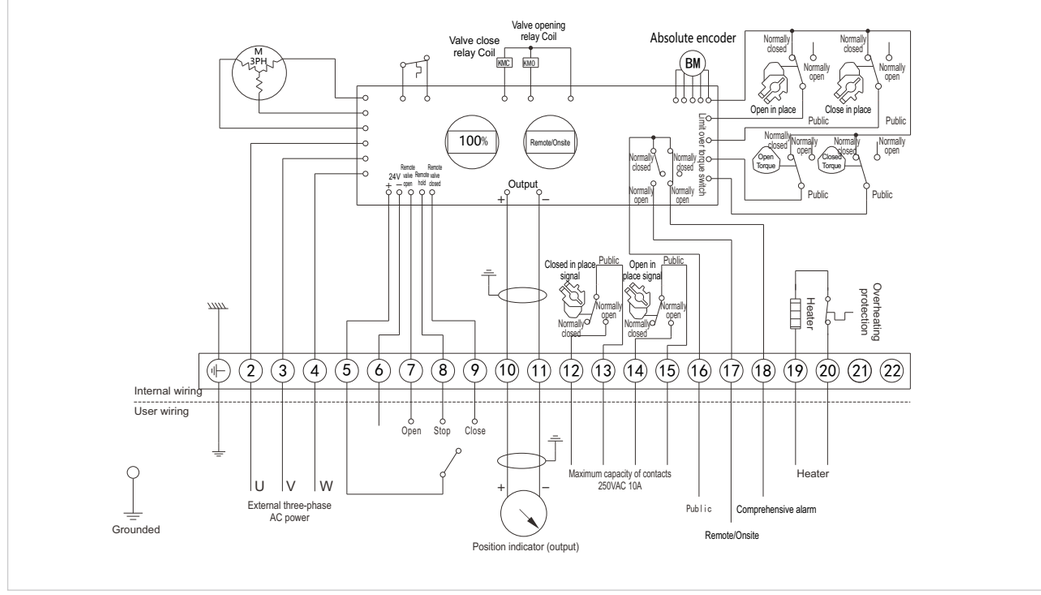


7.10 POQ-006Y/K2 ~ 800Y/K2 AC110V, AC220V-50Hz/60Hz (Non-intrusive intelligent integrated Modulating type)

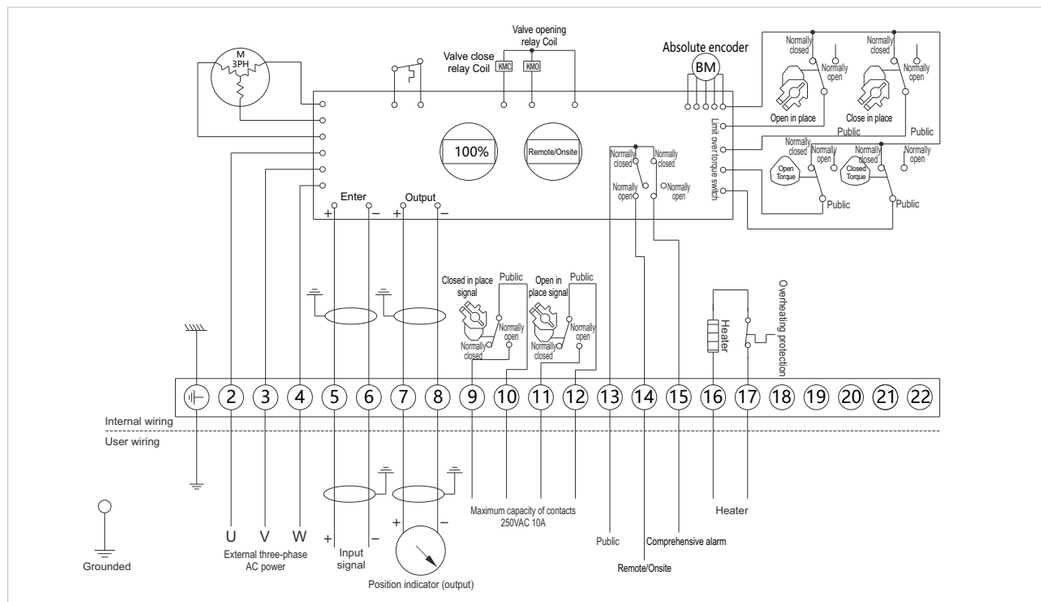


7.Wiring diagram

7.11 POQ-006Y/K1~800Y/K1 AC380V-50Hz/60Hz (Non-intrusive intelligent integrated ON-OFF type)

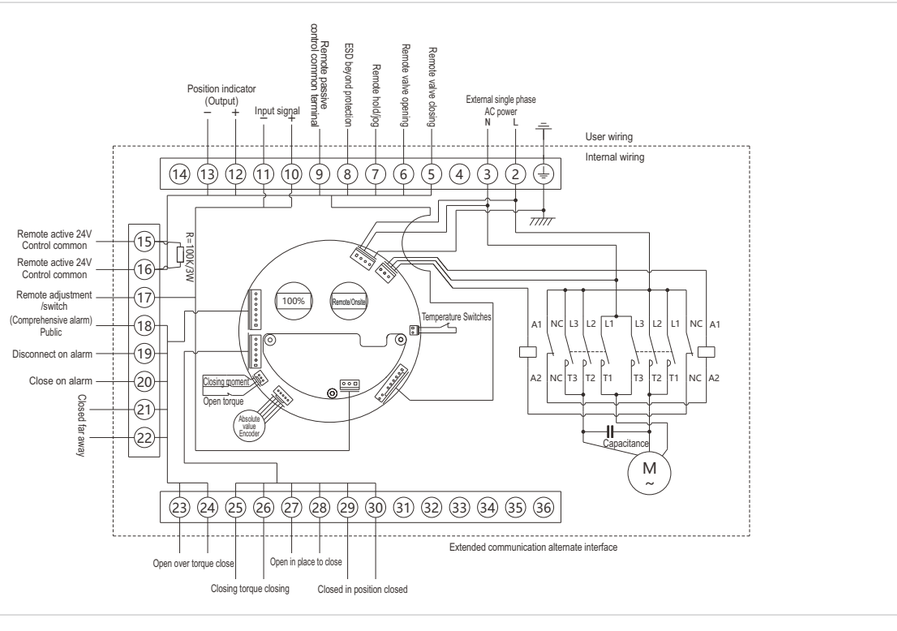


7.12 POQ-006Y/K2~800Y/K2 AC380V-50Hz/60Hz (Non-intrusive intelligent integrated Modulating type)

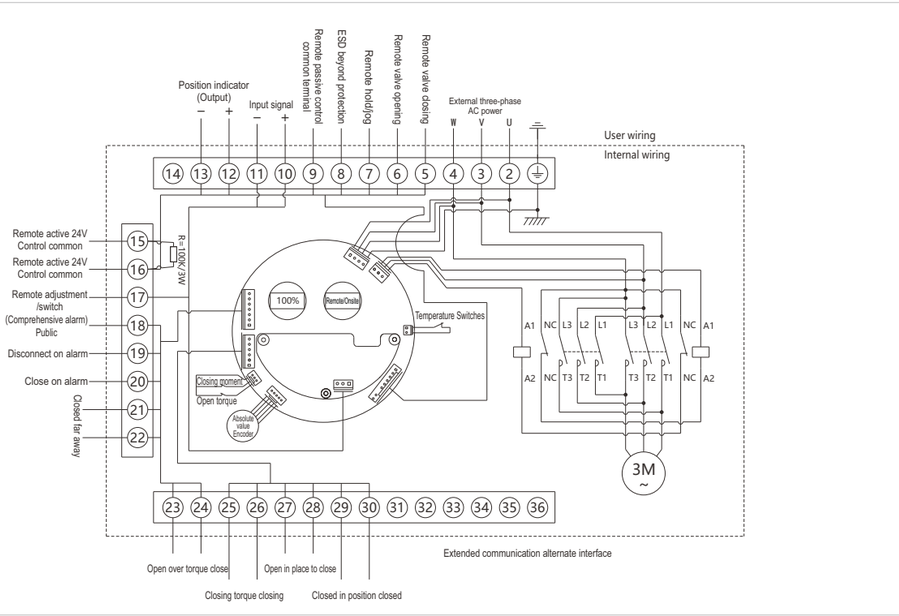


7.Wiring diagram

7.13 POQ-006S~800S AC220V-50Hz/60Hz (Super intelligent type)



7.14 POQ-006S~000S AC380V-50Hz/60Hz (Super intelligent type)



8.Actuator commissioning

8.1 Manual operation

When performing manual operation, the power must be cut off first; turn the hand wheel with the left hand and press the switch handle with the right hand in the direction of the arrow to engage the internal clutch of the mechanism to reach the manual function state (when the power is turned on)The switch handle automatically resets without human intervention), and continues to rotate clockwise or counterclockwise (opening can be observed through the window)

Note: - When the manual switch is in place, it will hit the mechanical limit stop. Excessive rotation will cause damage, so avoid excessive force.
- POQ 006 type~060 type manual switch requires a switch handle (automatic reset function when power is on), 080 type ~ 2000 type does not need a switch handle.

8.2 Electric operation

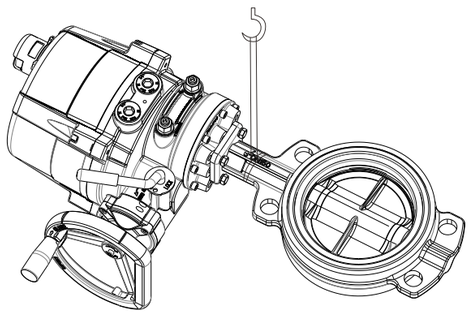
- Before electric operation, first use manual operation to check whether the opening or closing of the actuator opening window and the valve angle are consistent;
- Check whether the wiring is correct (wire strictly in accordance with the internal wiring diagram of the factory);
- After confirming the above status, start electric operation.

Note: - It is forbidden to change the internal wiring of the actuator.
- Check whether the wiring diagram, power supply, and input/output signals are correct before use.
- For other unknown or special specifications, please contact our company's technical department.

9.Handling and storage

9.1 Transport

- When transporting or installing the product, if you need to use ropes or hooks for hoisting, remember not to hang directly on the handwheel or switch handle, so as not to cause the handwheel to fall out of the mechanism and cause a fall and damage.
- If the electric actuator has been installed on the valve, when hoisting is required for a large-size valve, do not directly use ropes or hooks to hoist the electric actuator to avoid damage to the electric actuator.



Correct hoisting method

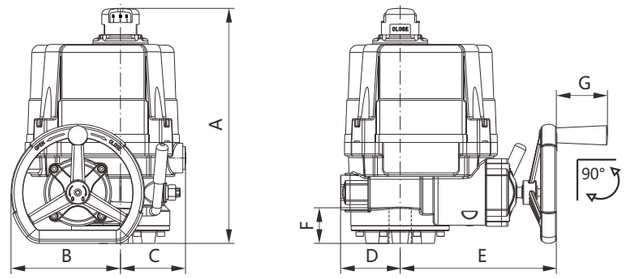
10.Order code

POQ- Ex 010 B / K1 / 27S / AC220V / F05-F07 / 11 / B

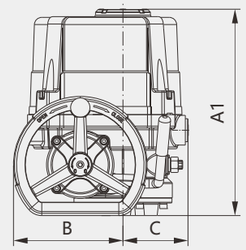
- Electric actuator series model
- Explosion-proof mark: Ex. It is not explosion-proof and does not indicate
- Actuator output torque ÷ 10
- B: Basic type
  G: Ordinary adjustment type
  Y: Non-intrusive intelligent integrated type
  S: Super smart
- K1: switch type
  K2: Adjustable
  K3: Precision potentiometer (resistance output)
  K4: Switch type output 4-20mA
  K5: Bus Modbus-RTU type (single card/dual card)
  K6: Bus Modbus-TCP/IP type (single card/dual card)
  K7: Bus Profibus-DP type (single card/dual card)
  K8: Bus Hart type
  K9: Bus FF type...
  (Bus single card K5-1 or dual card means K5-2)
- 0 90° opening and closing time
- Power supply type
- ISO5211 standard
- Connection hole size
- B: With remote control
  G: With Bluetooth communication
  Y: With GPRS wireless control
  J: External junction box
  "N" when not selected...

11.Dimensions

Basic type POQ-006B~POQ-060B/ Explosion-proof basic type POQ-Ex006B~POQ-Ex060B



POQ-006B～POQ-060B

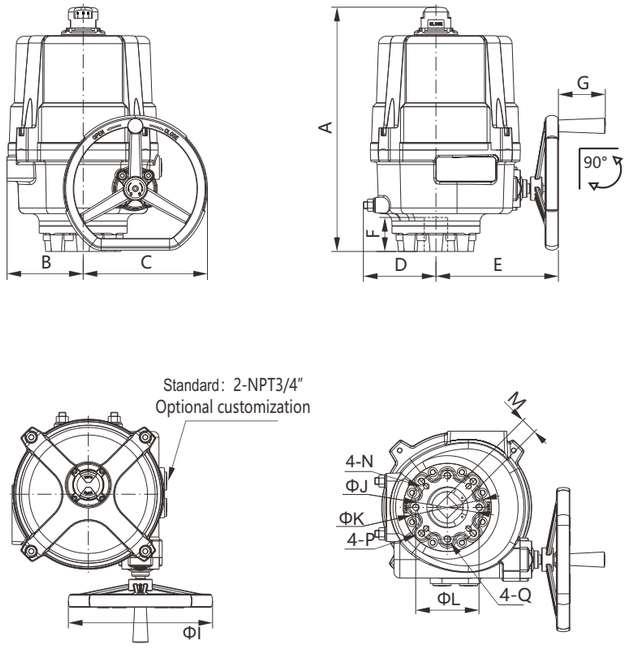


POQ-Ex006B～POQ-Ex060B

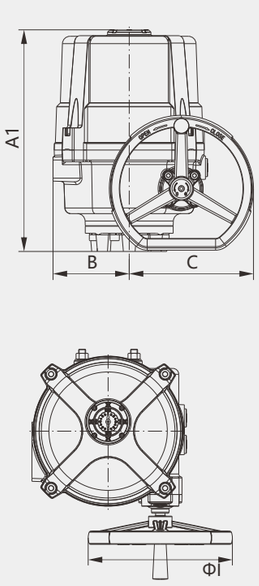
Modle	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	ΦL	4-Q	M	A1
POQ-006	280	92	77	47	171	40	50	100	50	4-M6	70	4-M8	57.15	4-M6	9/11/14/17	240
POQ-010	280	92	77	47	171	40	50	100	50	4-M6	70	4-M8	57.15	4-M6	9/11/14/17	240
POQ-016	316	147	90	78	208	48	63	180	70	4-M8	102	4-M10	69.85	4-M8	11/14/17/22	276
POQ-020	316	147	90	78	208	48	63	180	70	4-M8	102	4-M10	69.85	4-M8	11/14/17/22	276
POQ-030	341	152	98	81	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301
POQ-050	341	152	98	81	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301
POQ-060	341	152	98	81	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301

11.Dimensions

Basic type POQ-080B~POQ-230B/Explosion-proof basic type POQ-Ex080B~POQ-Ex230B



POQ-080B ~ POQ-230B

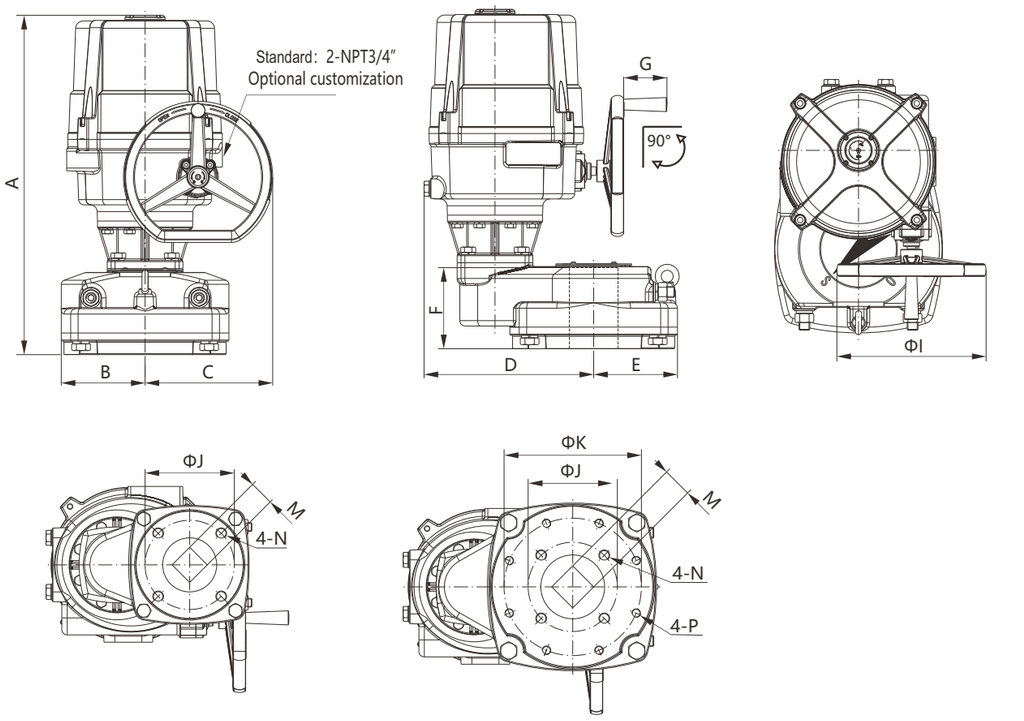


POQ-Ex080B ~ POQ-Ex230B

Model	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	ΦL	4-Q	4-Q	M	A1
POQ-080	415	130	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12	F14 Factory optional	17/22/27	375
POQ-100	415	130	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12		17/22/27	375
POQ-130	415	130	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12		17/22/27	375
POQ-170	458	145	236	146	236	66	80	280	F12(Φ125/4-M12) F14(Φ140/4-M16) F16(Φ165/4-M20)						Factory optional	22/27/36	418
POQ-200	458	145	236	146	236	66	80	280								22/27/36	418
POQ-230	458	145	236	146	236	66	80	280								22/27/36	418

11.Dimensions

Basic type POQ-350B~POQ-800B/Explosion-proof basic type POQ-Ex350B~POQ-Ex800B

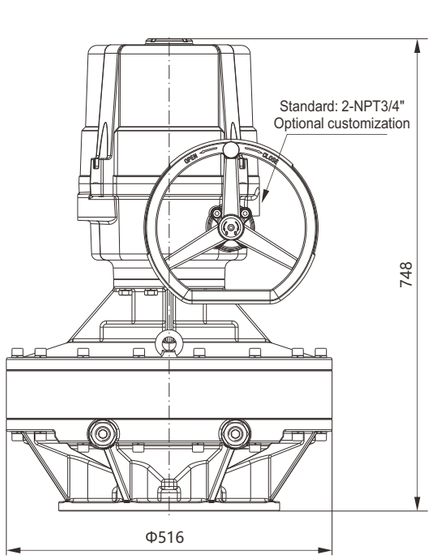


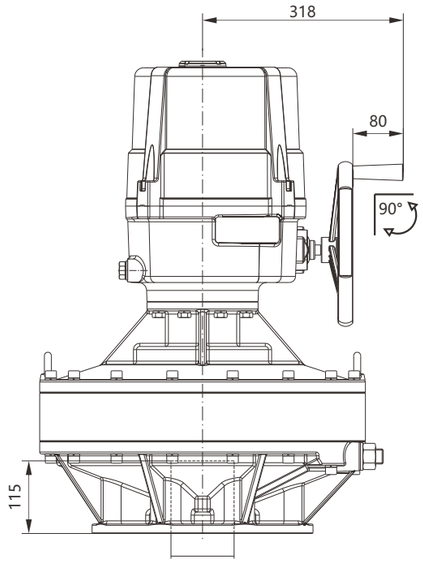
POQ-350B ~ POQ-800B/POQ-Ex350B ~ POQ-Ex800B

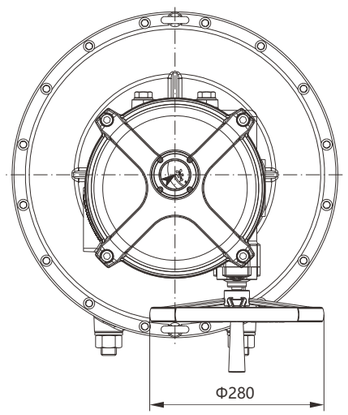
Model	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	M
POQ-350	620	145	236	267	110	145	80	280	160	4-M20	F14 Optional appearance		36/46
POQ-500	620	145	236	267	110	145	80	280	160	4-M20			36/46
POQ-800	627	155	236	315	155	150	80	280	160	4-M20	254	8-M16	46/55

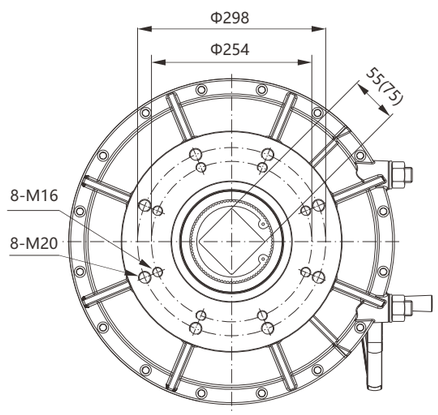
11.Dimensions

Basic type POQ-1300B~POQ-2000B/Explosion-proof basic type POQ-Ex1300B~POQ-Ex2000B





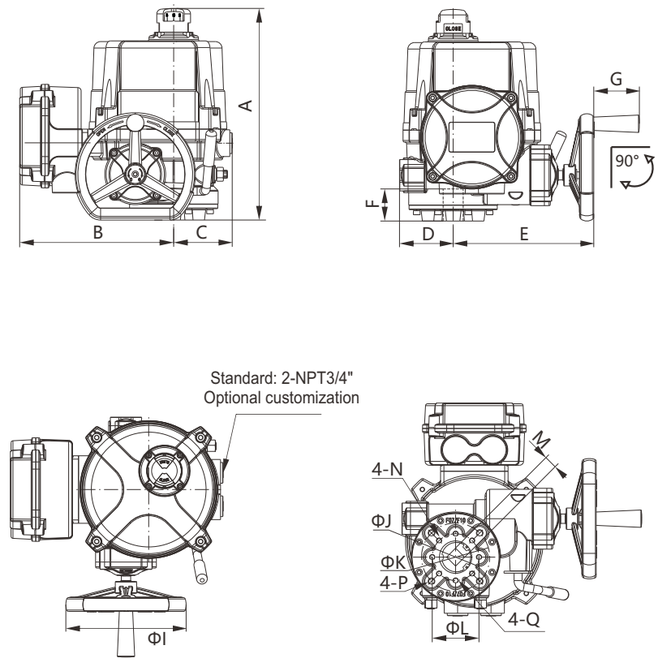




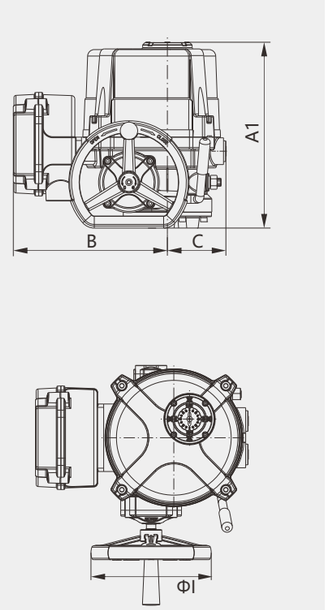
POQ-1300B ~ POQ-2000B/POQ-Ex1300B ~ POQ-Ex2000B

11.Dimensions

Ordinary adjustment type POQ-006G~POQ-060G/Explosion-proof ordinary adjustment type POQ-Ex006G~POQ-Ex060G



POQ-006G ~ POQ-060G



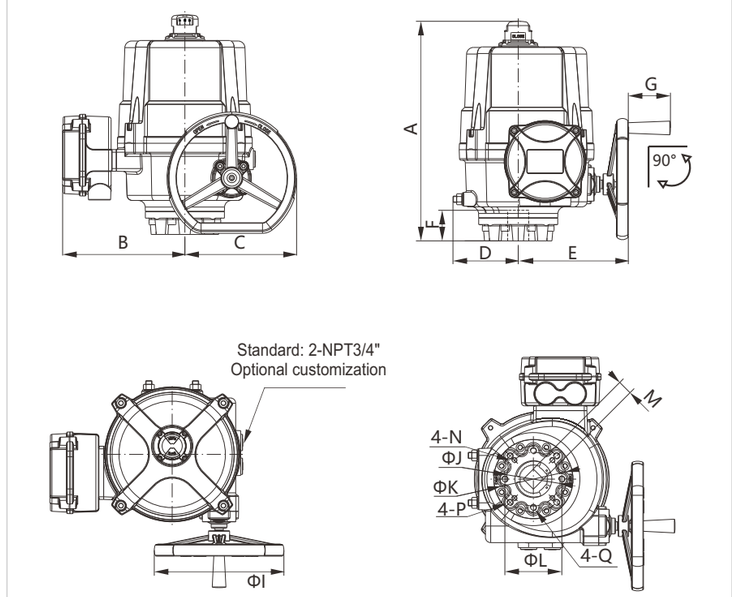
POQ-Ex006G ~ POQ-Ex060G

Modle	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	ΦL	4-Q	M	A1
POQ-006	280	189	77	47	171	40	50	100	50	4-M6	70	4-M8	57.15	4-M6	9/11/14/17	240
POQ-010	280	189	77	47	171	40	50	100	50	4-M6	70	4-M8	57.15	4-M6	9/11/14/17	240
POQ-016	316	225	90	78	208	48	63	180	70	4-M8	102	4-M10	69.85	4-M8	11/14/17/22	276
POQ-020	316	225	90	78	208	48	63	180	70	4-M8	102	4-M10	69.85	4-M8	11/14/17/22	276
POQ-030	341	235	98	81	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301
POQ-050	341	235	98	81	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301
POQ-060	341	235	98	81	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301

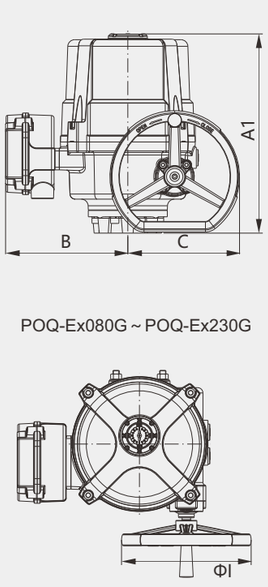
Note: It can also be selected as a basic switch type with external junction box

11.Dimensions

Ordinary adjustment type POQ-080G~POQ-230G/Explosion-proof ordinary adjustment type POQ-Ex080G~POQ-Ex230G



POQ-080G ~ POQ-230G



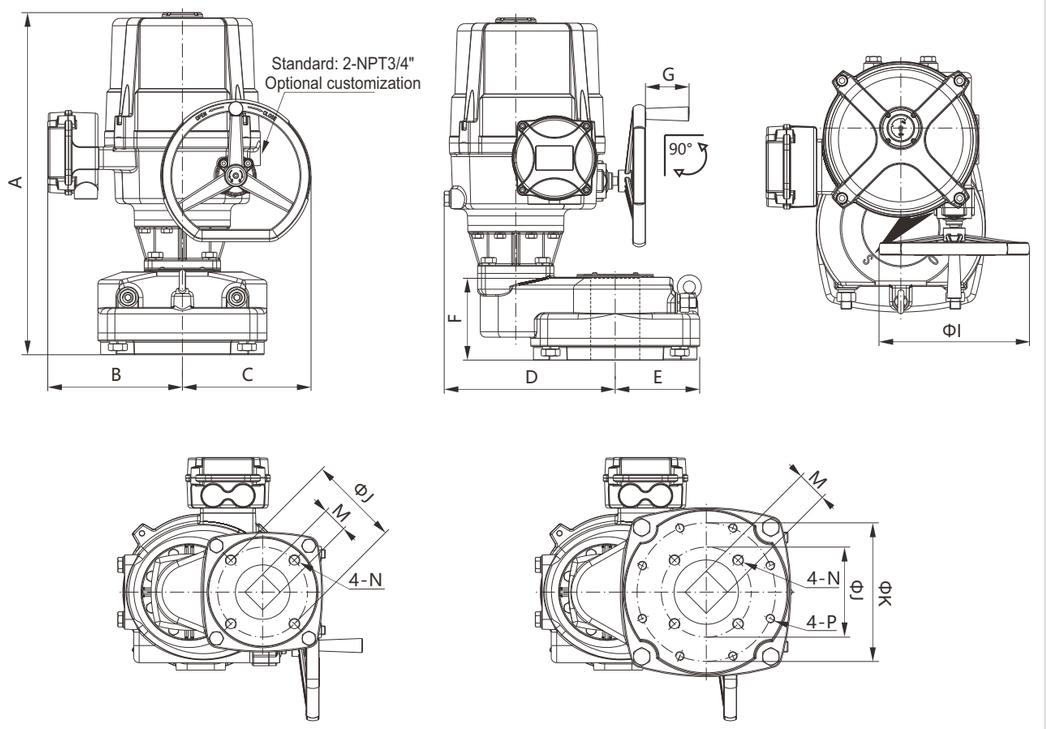
POQ-Ex080G ~ POQ-Ex230G

Modle	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	ΦL	4-Q	4-Q	M	A1
POQ-080	415	227	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12	F14 Factory optional	17/22/27	375
POQ-100	415	227	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12		17/22/27	375
POQ-130	415	227	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12		17/22/27	375
POQ-170	458	242	236	146	236	66	80	280	F12(Φ125/4-M12) F14(Φ140/4-M16) F16(Φ165/4-M20)						Factory optional	22/27/36	418
POQ-200	458	242	236	146	236	66	80	280								22/27/36	418
POQ-230	458	242	236	146	236	66	80	280								22/27/36	418

Note: It can also be selected as a basic switch type with external junction box

11.Dimensions

Ordinary adjustment type POQ-350G~POQ-800G/Explosion-proof ordinary adjustment type POQ-Ex350G~POQ-Ex800G



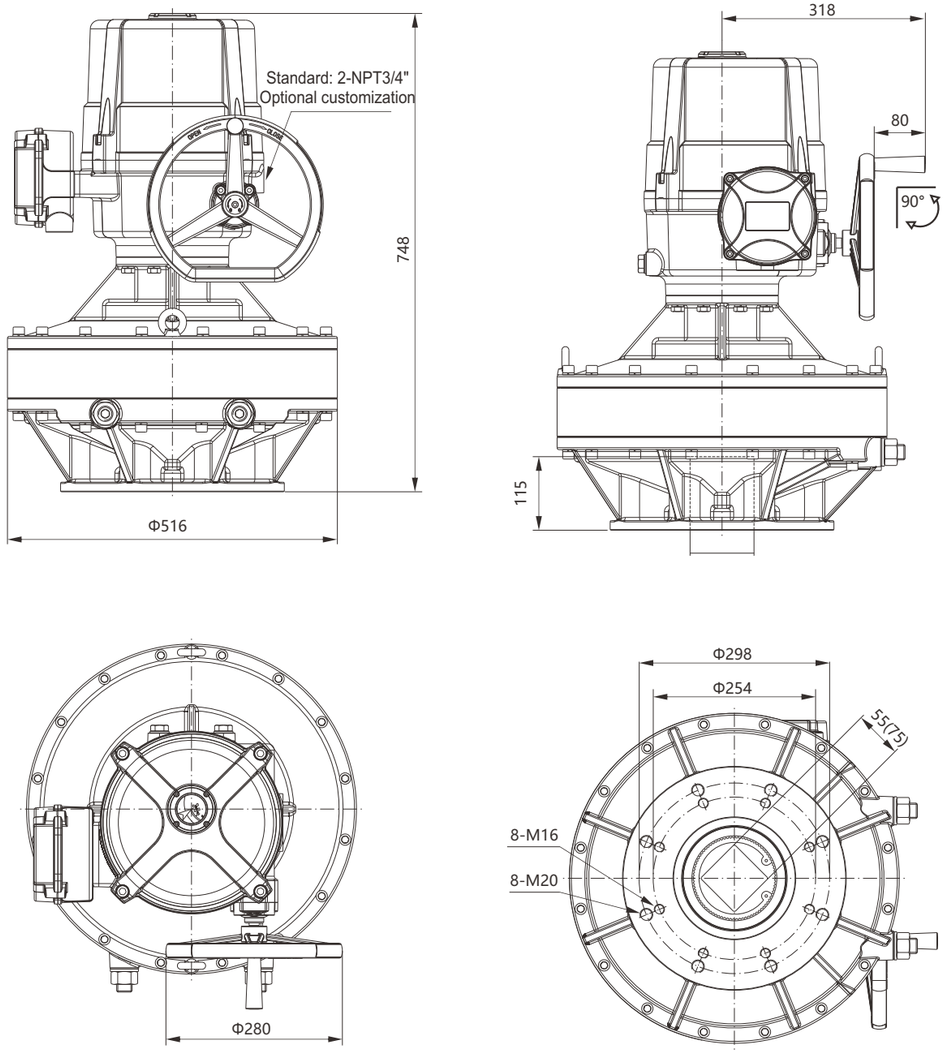
POQ-350G ~ POQ-800G/POQ-Ex350G ~ POQ-Ex800G

Modle	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	M
POQ-350	620	242	236	267	110	145	80	280	160	4-M20	F14 Factory optional		36/46
POQ-500	620	242	236	267	110	145	80	280	160	4-M20			36/46
POQ-800	627	242	236	315	155	150	80	280	160	4-M20	254	8-M16	46/55

Note: It can also be selected as a basic switch type with external junction box

11.Dimensions

Basic type POQ-1300G~POQ-2000G with external junction box/Explosion-proof basic type POQ-Ex1300G~POQ-Ex2000G\ with external junction box

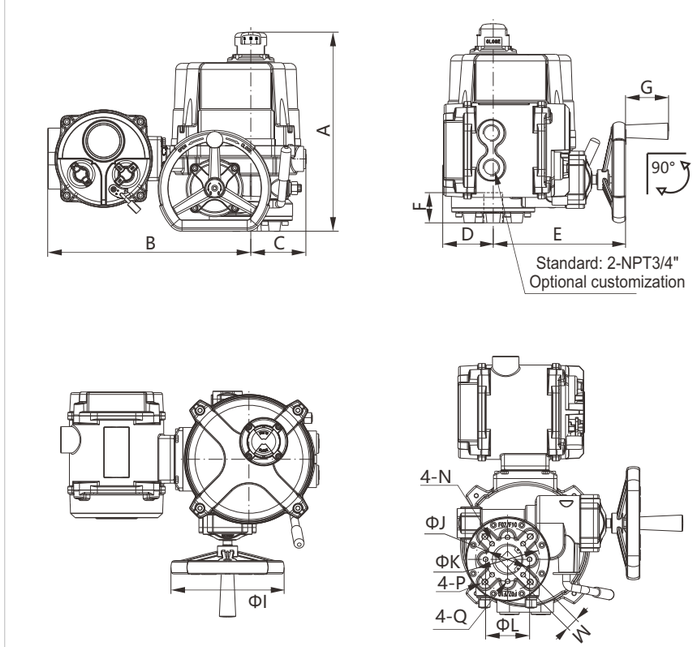


POQ-1300G~POQ-2000G with external junction box/POQ-Ex1300G~POQ-Ex2000G with external junction box

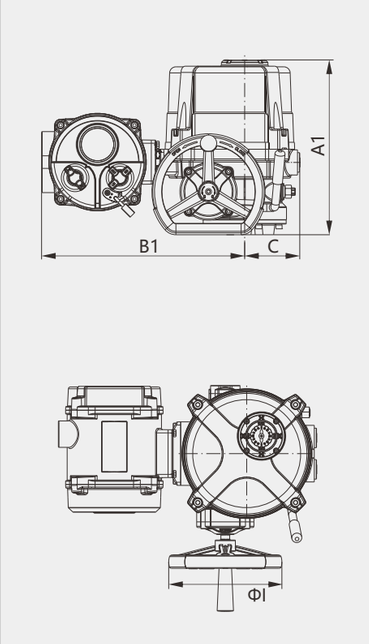
Note: It can also be selected as a basic switch type with external junction box

11.Dimensions

Non-invasive intelligent integrated type POQ-006Y~POQ-060Y/Explosion-proof non-invasive intelligent integrated type POQ-Ex006Y~POQ-Ex060Y



POQ-006Y～POQ-060Y

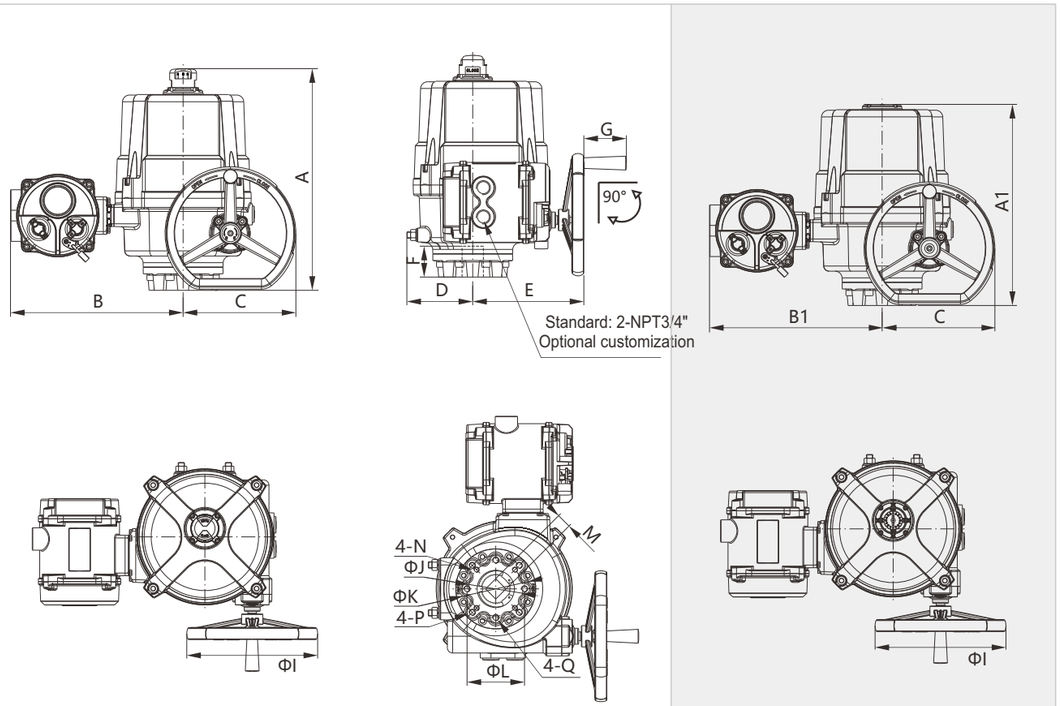


POQ-Ex006Y～POQ-Ex060Y

Modle	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	ΦL	4-Q	M	A1	B1
POQ-006	280	279	77	73	171	40	50	100	50	4-M6	70	4-M8	57.15	4-M6	9/11/14/17	240	292
POQ-010	280	279	77	73	171	40	50	100	50	4-M6	70	4-M8	57.15	4-M6	9/11/14/17	240	292
POQ-016	316	315	90	78	208	48	63	180	70	4-M8	102	4-M10	69.85	4-M8	11/14/17/22	276	328
POQ-020	316	315	90	78	208	48	63	180	70	4-M8	102	4-M10	69.85	4-M8	11/14/17/22	276	328
POQ-030	341	325	98	81	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301	338
POQ-050	341	325	98	81	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301	338
POQ-060	341	325	98	81	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301	338

11.Dimensions

Non-invasive intelligent integrated type POQ-080Y~POQ-230Y/Explosion-proof non-invasive intelligent integrated type POQ-Ex080Y~POQ-Ex230Y



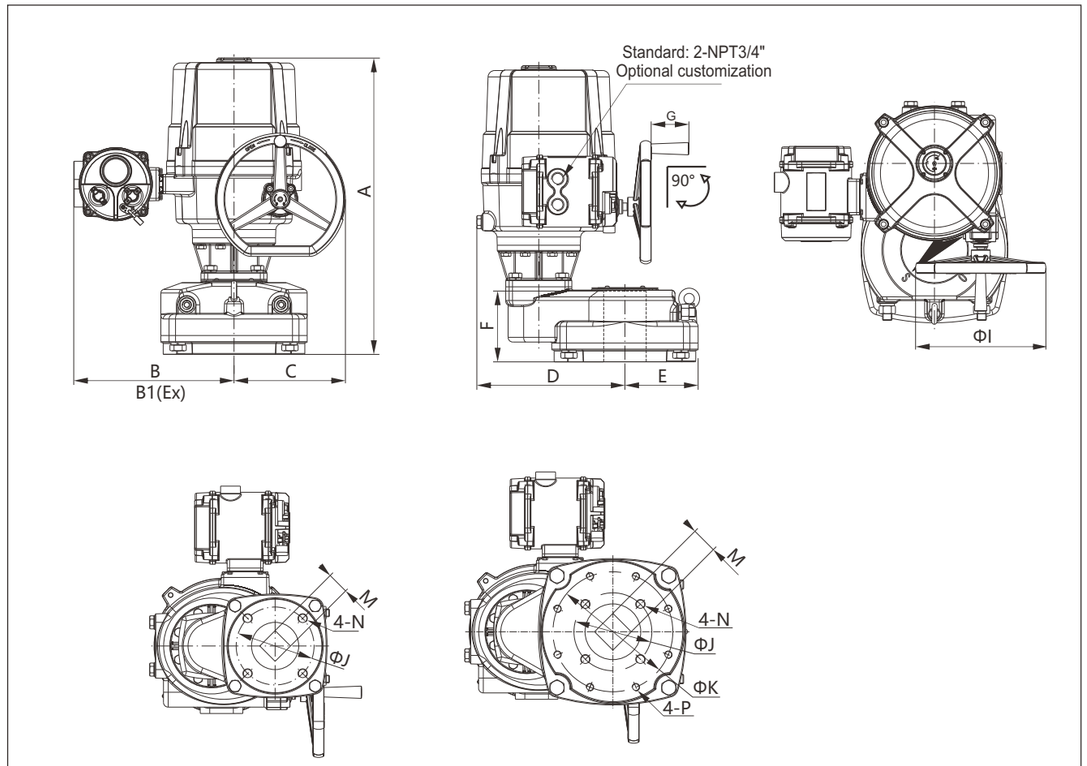
POQ-080Y ~ POQ-230Y

POQ-Ex080Y ~ POQ-Ex230Y

Modle	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	ΦL	4-Q	4-Q	M	A1	B1
POQ-080	415	317	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12	F14 Factory optional	17/22/27	375	330
POQ-100	415	317	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12		17/22/27	375	330
POQ-130	415	317	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12		17/22/27	375	330
POQ-170	458	332	236	146	236	66	80	280	F12(Φ125/4-M12) F14(Φ140/4-M16) F16(Φ165/4-M20)						Factory optional	22/27/36	418	345
POQ-200	458	332	236	146	236	66	80	280								22/27/36	418	345
POQ-230	458	332	236	146	236	66	80	280								22/27/36	418	345

11.Dimensions

Non-invasive intelligent integrated type POQ-350Y~POQ-800Y/Explosion-proof non-invasive intelligent integrated type POQ-Ex350Y~POQ-Ex800Y

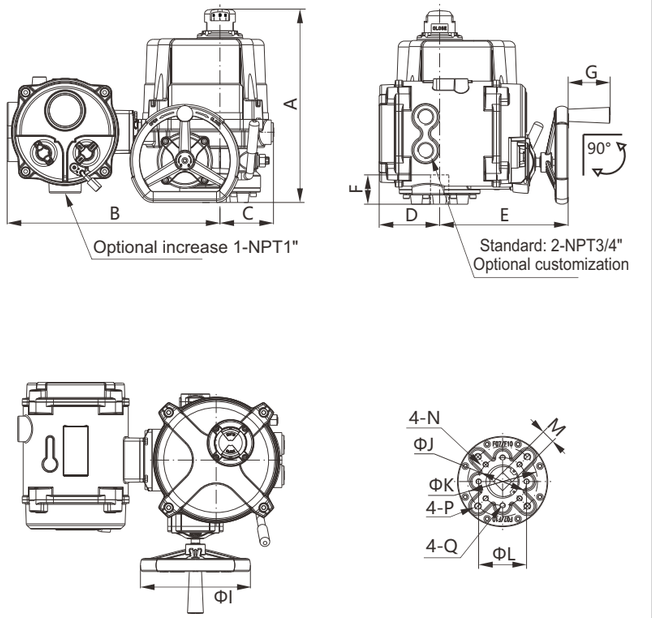


POQ-350Y ~ POQ-800Y/POQ-Ex350Y ~ POQ-Ex800Y

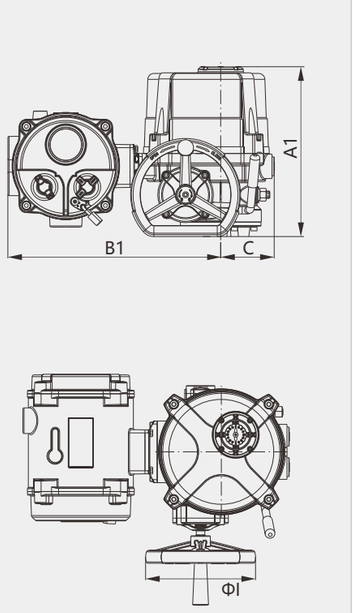
Modle	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	M	B1 (Ex)
POQ-350	620	332	236	267	110	145	80	280	160	4-M20	F14 Factory optional		36/46	345
POQ-500	620	332	236	267	110	145	80	280	160	4-M20			36/46	345
POQ-800	627	332	236	315	155	150	80	280	160	4-M20	254	8-M16	46/55	345

11.Dimensions

Super intelligent type POQ-006S~POQ-060S/Explosion-proof super intelligent type POQ-Ex006S~POQ-Ex060S



POQ-006S ~ POQ-060S

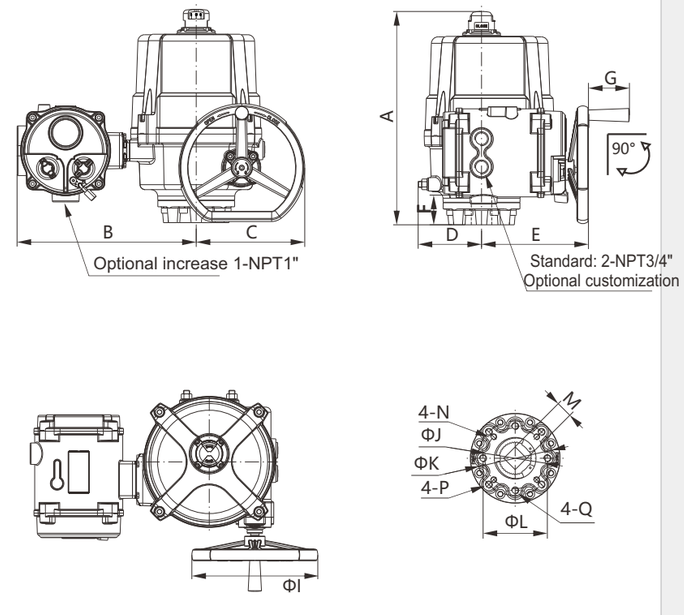


POQ-Ex006S ~ POQ-Ex060S

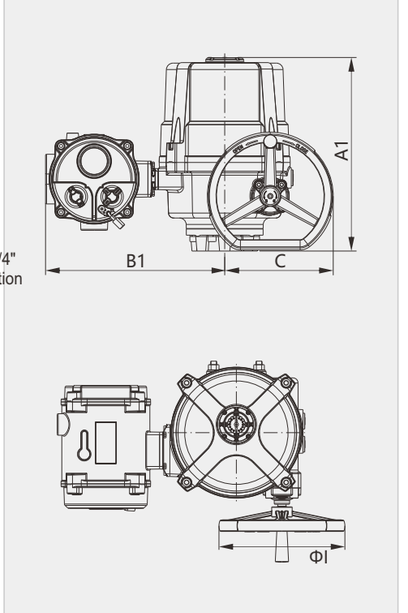
Modle	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	ΦL	4-Q	M	A1	B1
POQ-006	280	300	77	95	171	40	50	100	50	4-M6	70	4-M8	57.15	4-M6	9/11/14/17	240	312
POQ-010	280	300	77	95	171	40	50	100	50	4-M6	70	4-M8	57.15	4-M6	9/11/14/17	240	312
POQ-016	316	336	90	99	208	48	63	180	70	4-M8	102	4-M10	69.85	4-M8	11/14/17/22	276	348
POQ-020	316	336	90	99	208	48	63	180	70	4-M8	102	4-M10	69.85	4-M8	11/14/17/22	276	348
POQ-030	341	346	98	93	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301	358
POQ-050	341	346	98	93	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301	358
POQ-060	341	346	98	93	218	52	63	180	102	4-M10	125	4-M12	88.9	4-M12	14/17/22	301	358

11.Dimensions

Super intelligent type POQ-080S~POQ-230S/Explosion-proof super intelligent type POQ-Ex080S~POQ-Ex230S



POQ-080S ~ POQ-230S

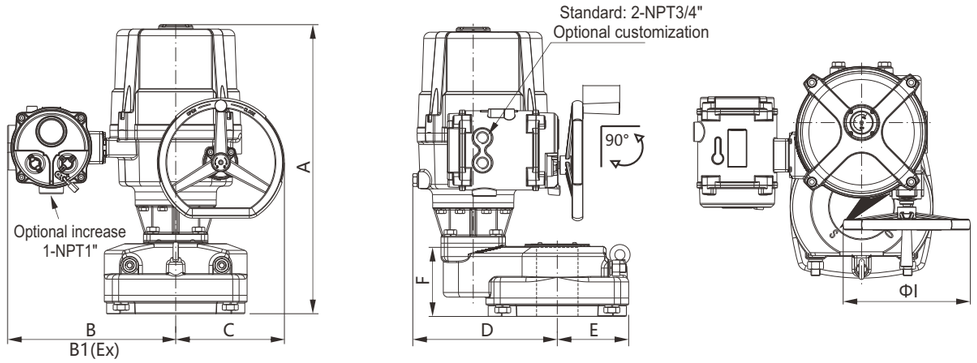


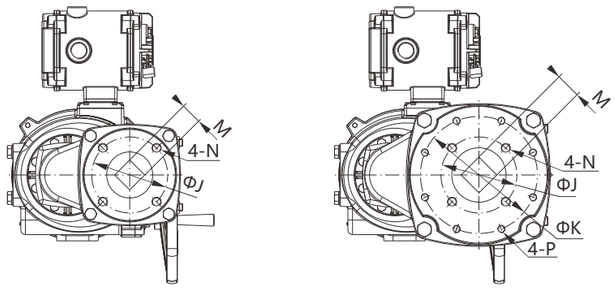
POQ-Ex080S ~ POQ-Ex230S

Modle	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	ΦL	4-Q	4-Q	M	A1	B1
POQ-080	415	338	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12	F14 Factory optional	17/22/27	375	350
POQ-100	415	338	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12		17/22/27	375	350
POQ-130	415	338	212	128	208	58	80	250	102	4-M10	125	4-M12	107.95	4-M12		17/22/27	375	350
POQ-170	458	353	236	146	236	66	80	280	F12(Φ125/4-M12) F14(Φ140/4-M16) F16(Φ165/4-M20)						Factory optional	22/27/36	418	365
POQ-200	458	353	236	146	236	66	80	280								22/27/36	418	365
POQ-230	458	353	236	146	236	66	80	280								22/27/36	418	365

11.Dimensions

Super intelligent type POQ-350S~POQ-800S/Explosion-proof super intelligent type POQ-Ex350S~POQ-Ex800S



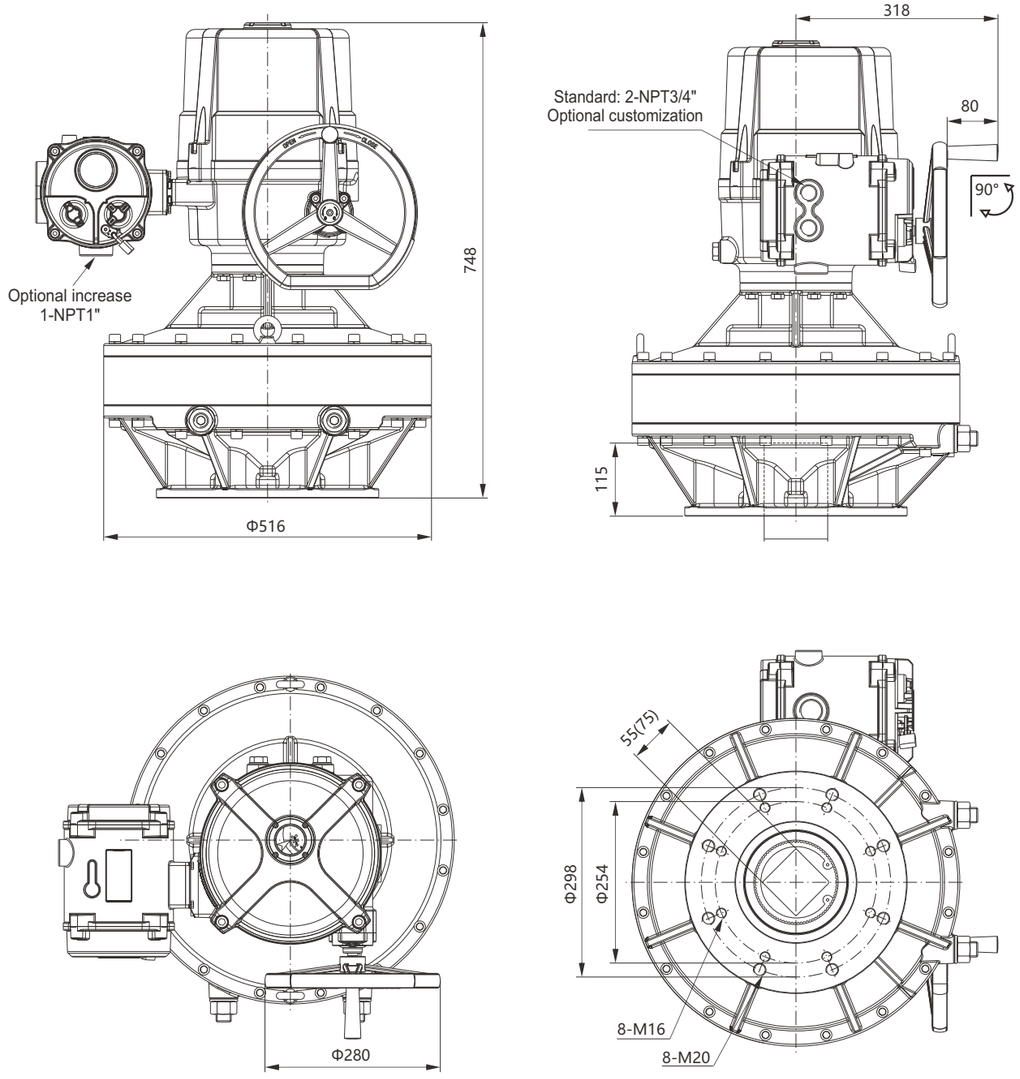


POQ-350S ~ POQ-800S/POQ-Ex350S ~ POQ-Ex800S

Modle	A	B	C	D	E	F	G	ΦI	ΦJ	4-N	ΦK	4-P	M	B1 (Ex)
POQ-350	620	353	236	267	110	145	80	280	160	4-M20	F14 Factory optional		36/46	365
POQ-500	620	353	236	267	110	145	80	280	160	4-M20			36/46	365
POQ-800	627	353	236	315	155	150	80	280	160	4-M20	254	8-M16	46/55	365

11.Dimensions

Super intelligent type POQ-1300S~POQ-2000S/Explosion-proof super intelligent type POQ-Ex1300S~POQ-Ex2000S



POQ-1300S ~ POQ-2000S/POQ-Ex1300S ~ POQ-Ex2000S