PO9-GQ

PO9-G SERIES:
GB TYPE 2-WAY FLANGE BALL VALVE (PN16-PN40)

PO9-GQ Series:
MOTORIZED BALL VALVE WITH POQ HIGH-PERFORMANCE ACTUATOR

DESCRIPTION

The POV Motorized Ball Valves are controlled by our POQ series high-performance electric actuators. The actuator has powerful performance and numerous functions, and is applicable to a variety of working conditions and requirements. The maximum torque can reach 20000 nm.

The actuator can be equipped with a variety of Controlbus functions, including MODBUS, PROFIBUS, Hart, etc. it supports Bluetooth control and remote GPRS Remote control. It can not only set, debug and adjust the switch of the electric ball valve, but also obtain the position information, status information and fault information of the electric valve. Limit switch, torque switch, overheat protection, manual clutch and other devices can be configured internally, and explosion-proof configuration can be selected, which is applicable to a variety of working conditions.

ORDERING CODE

PO 9 6 4 □ — 1 □ □ □ — G Q —

Seal Material	
4	PTFE
R	RPTFE
P	PPL

Body Material	
3	A216 WCB
A	A351 CF8
B	A351 CF8M
C	A351 CF3M
E	A240 2205

Ball Material	
A	S.S. 304
B	PTFE
E	Duplex S.S. 2205

Pressure Rating	
3	PN16
4	PN25
5	PN40

— □ □ □ □

Actuator Control Model	
B	Common ON-OFF Type
G	Common Regulating Type
Y	Intelligent Integrated Type
S	Super Intelligent Type

Voltage	
1	AC220V
2	AC110V
3	AC24V
4	DC24V
5	AC380V
6	Others

Explosion-Proof Grade	
0	NA
1	EXd II CT5

Operation Function	
K1	ON-OFF
K2	Regulating
K3	Potentiometer
K4	ON-OFF c/w 4-20mA Feedback
K5	ControlBus Modbus-RTU Type
K6	ControlBus Modbus-TCP/IP Type
K7	ControlBus Profibus-DP Type
K8	ControlBus Hart Type
K9	ControlBus FF Type

Example: PO9644-1AA3-GQ-S51K2 : Motorized Ball Valve, CF8 Body, SS304 Ball, PTFE Seat, PN16, with Electric actuator POQ Super Intelligent type, Regulating type, Power supply AC380V, Explosion-proof Exd II CT5

INVESTMENT CASTING BALL VALVE

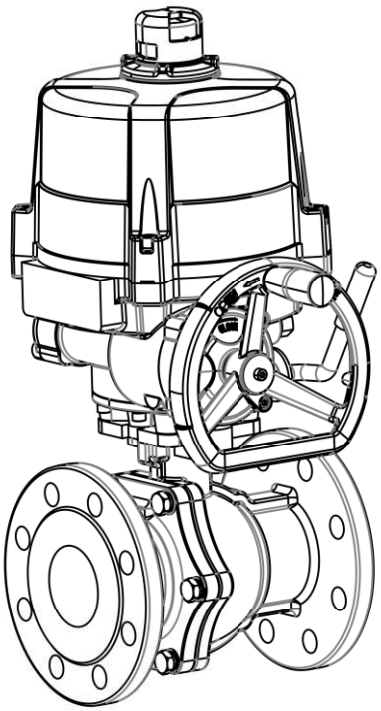
PO9-GQ

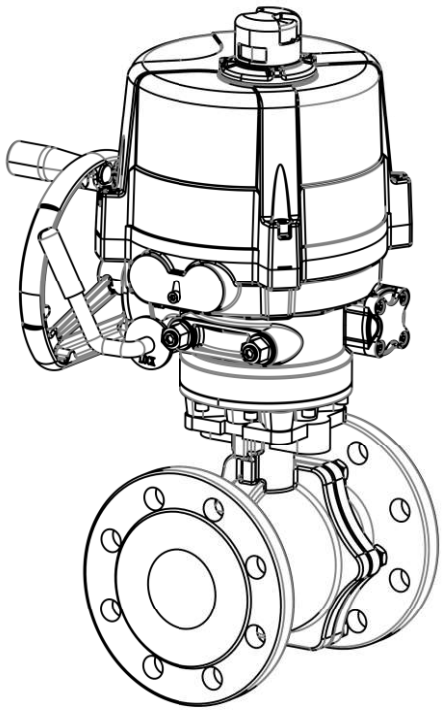
PO9-GQ Series:
MOTORIZED BALL VALVE WITH POQ HIGH-PERFORMANCE ACTUATOR

PO9-GQ-B : COMMON ON-OFF TYPE

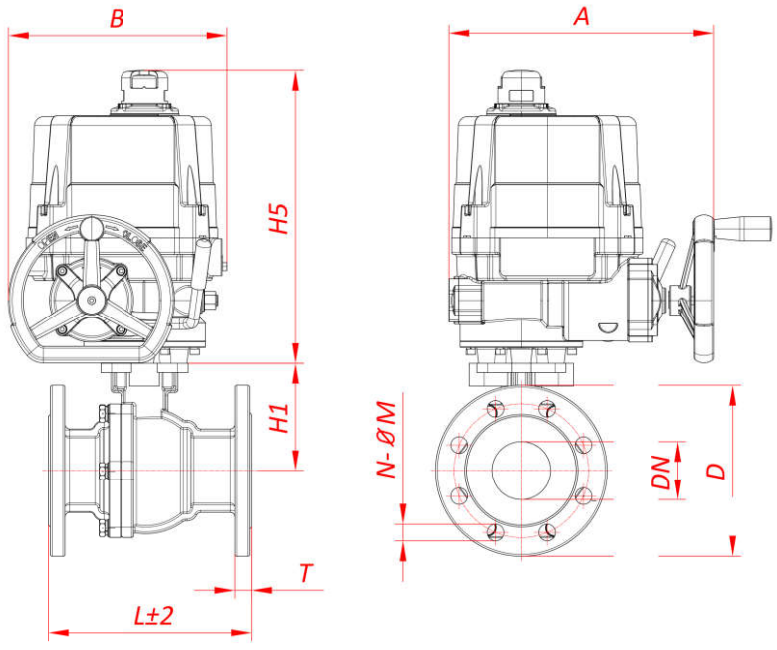
FEATURES

- Protection IP67 Nema 4 and 6
- Optionnal Explosion-proof type Exd II CT5
- Position Indicator on the top
- Epoxy polyester powder coating on alu-alloy shell
- Integrated declutchable gear for manual override
- Torque switch and Limit Switch 2x SPDT ON/OFF
- Common Open and Close the valve according to remote signal, with feedback of Open and Close position
- Support multiple voltage designs includes: Single Phase: 24V、110V、220V、230V、240V 50/60Hz/ 3-Phases: 220V、380V、415V、440V 50/60Hz / DC24V





DIMENSIONS



INVESTMENT CASTING BALL VALVE

PO9-GQ-B :
COMMON ON-OFF TYPE

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN16

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN16 PRESSURE RATING	DN15	130	108	95	16	4-14	52	137.5	165	140.5	POQ-006
	DN20	130	117	105	18	4-14	56.5	137.5	165	140.5	POQ-006
	DN25	140	127	115	18	4-14	65	137.5	165	140.5	POQ-006
	DN32	165	140	140	18	4-18	73.5	137.5	165	140.5	POQ-006
	DN40	165	165	150	18	4-18	81.5	168.5	211.5	154	POQ-010
	DN50	203	178	165	20	4-18	89	168.5	211.5	154	POQ-010
	DN65	222	190	185	18	8-18	116	203	259	186	POQ-020
	DN80	241	203	200	20	8-18	127	203	259	186	POQ-020
	DN100	305	229	220	20	8-18	149.5	203	259	186	POQ-050
	DN125	356	–	250	22	8-18	173	203	259	186	POQ-060
	DN150	394	–	285	22	8-22	208	229.5	283.5	193	POQ-100
	DN200	457	–	340	24	12-22	256	229.5	283.5	193	POQ-200

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN25

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN25 PRESSURE RATING	DN15	130	108	95	16	4-14	52	137.5	165	140.5	POQ-010
	DN20	130	117	105	18	4-14	56.5	137.5	165	140.5	POQ-010
	DN25	140	127	115	18	4-14	65	137.5	165	140.5	POQ-010
	DN32	165	140	140	18	4-18	73.5	137.5	165	140.5	POQ-010
	DN40	165	165	150	18	4-18	81.5	168.5	211.5	154	POQ-020
	DN50	203	178	165	20	4-18	89	168.5	211.5	154	POQ-020
	DN65	222	–	185	18	8-18	116	203	259	186	POQ-050
	DN80	241	–	200	20	8-18	127	203	259	186	POQ-050
	DN100	305	–	220	20	8-18	149.5	203	259	186	POQ-060

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN40

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN40 PRESSURE RATING	DN15	130	108	95	16	4-14	52	137.5	165	140.5	POQ-10
	DN20	130	117	105	18	4-14	56.5	137.5	165	140.5	POQ-10
	DN25	140	127	115	18	4-14	65	137.5	165	140.5	POQ-10
	DN32	165	140	140	18	4-18	73.5	137.5	165	140.5	POQ-10
	DN40	165	165	150	18	4-18	81.5	168.5	211.5	154	POQ-20
	DN50	203	178	165	20	4-18	89	168.5	211.5	154	POQ-20
	DN65	222	–	185	18	8-18	116	203	259	186	POQ-20
	DN80	241	–	200	20	8-18	127	203	259	186	POQ-20
	DN100	305	–	220	20	8-18	149.5	203	259	186	POQ-40

INVESTMENT CASTING BALL VALVE

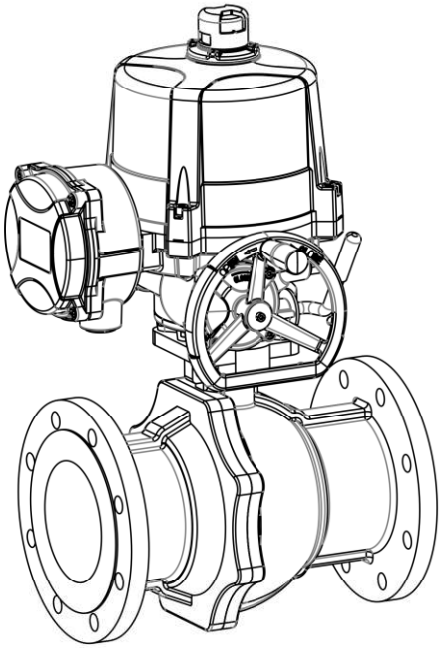
PO9-GQ

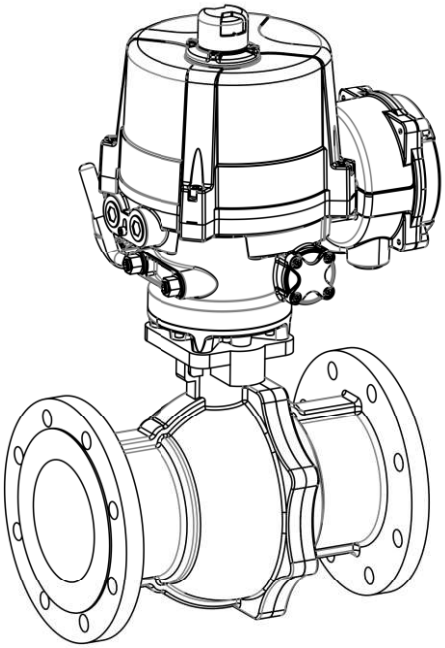
PO9-GQ Series:
MOTORIZED BALL VALVE WITH POQ HIGH-PERFORMANCE ACTUATOR

PO9-GQ-G : REGULATING TYPE

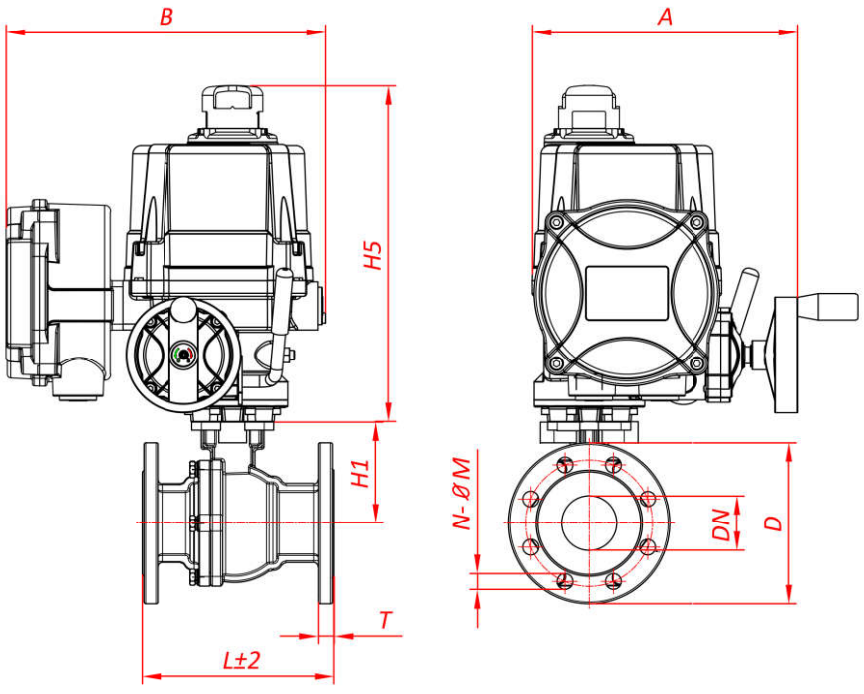
FEATURES

- Protection IP67 Nema 4 and 6
- Optionnal Explosion-proof type Exd II CT5
- Position Indicator on the top
- Epoxy polyester powder coating on alu-alloy shell
- Integrated declutchable gear for manual override
- Torque switch and Limit Switch 2x SPDT ON/OFF
- Proportionally Open the valve in position 0° to 90° according to digital signal 4-20mA, and feedback 4-20mA position signal
- Support multiple voltage designs includes: Single Phase: 24V、110V、220V、230V、240V 50/60Hz/ 3-Phases: 220V、380V、415V、440V 50/60Hz / DC24V





DIMENSIONS



INVESTMENT CASTING BALL VALVE

PO9-GQ-G : REGULATING TYPE

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN16

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN16 PRESSURE RATING	DN15	130	108	95	16	4-14	52	137.5	280	266	POQ-006
	DN20	130	117	105	18	4-14	56.5	137.5	280	266	POQ-006
	DN25	140	127	115	18	4-14	65	137.5	280	266	POQ-006
	DN32	165	140	140	18	4-18	73.5	137.5	280	266	POQ-006
	DN40	165	165	150	18	4-18	81.5	168.5	280	266	POQ-010
	DN50	203	178	165	20	4-18	89	168.5	280	266	POQ-010
	DN65	222	190	185	18	8-18	116	203	316	315	POQ-020
	DN80	241	203	200	20	8-18	127	203	316	315	POQ-020
	DN100	305	229	220	20	8-18	149.5	203	341	333	POQ-050
	DN125	356	–	250	22	8-18	173	203	341	333	POQ-060
	DN150	394	–	285	22	8-22	208	229.5	415	439	POQ-100
	DN200	457	–	340	24	12-22	256	229.5	458	478	POQ-200

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN25

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN25 PRESSURE RATING	DN15	130	108	95	16	4-14	52	280	218	266	POQ-010
	DN20	130	117	105	18	4-14	56.5	280	218	266	POQ-010
	DN25	140	127	115	18	4-14	65	280	218	266	POQ-010
	DN32	165	140	140	18	4-18	73.5	280	218	266	POQ-010
	DN40	165	165	150	18	4-18	81.5	316	286	315	POQ-020
	DN50	203	178	165	20	4-18	89	316	286	315	POQ-020
	DN65	222	–	185	22	8-18	116	341	299	333	POQ-050
	DN80	241	–	200	24	8-18	127	341	299	333	POQ-050
	DN100	305	–	235	24	8-22	138	341	299	333	POQ-060

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN40

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN40 PRESSURE RATING	DN15	130	108	95	16	4-14	52	280	218	266	POQ-010
	DN20	130	117	105	18	4-14	56.5	280	218	266	POQ-010
	DN25	140	127	115	18	4-14	65	280	218	266	POQ-010
	DN32	165	140	140	18	4-18	73.5	280	218	266	POQ-010
	DN40	165	165	150	18	4-18	81.5	316	286	315	POQ-020
	DN50	203	178	165	20	4-18	89	316	286	315	POQ-020
	DN65	222	–	185	22	8-18	116	341	299	333	POQ-020
	DN80	241	–	200	24	8-18	127	341	299	333	POQ-020
	DN100	305	–	235	24	8-22	138	341	299	333	POQ-040

INVESTMENT CASTING BALL VALVE

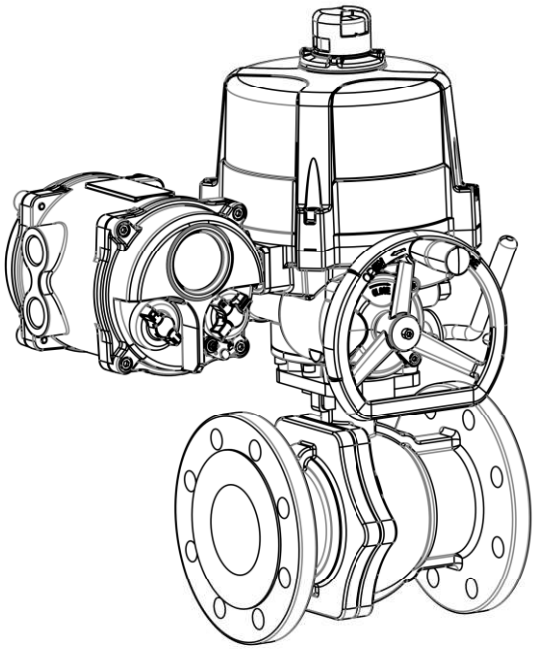
PO9-GQ

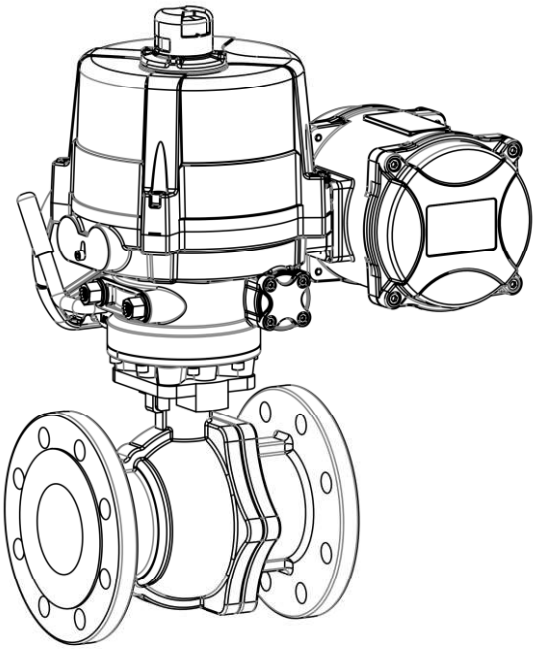
PO9-GQ Series:
MOTORIZED BALL VALVE WITH POQ HIGH-PERFORMANCE ACTUATOR

PO9-GQ-Y : INTELLIGENT INTEGRATED TYPE

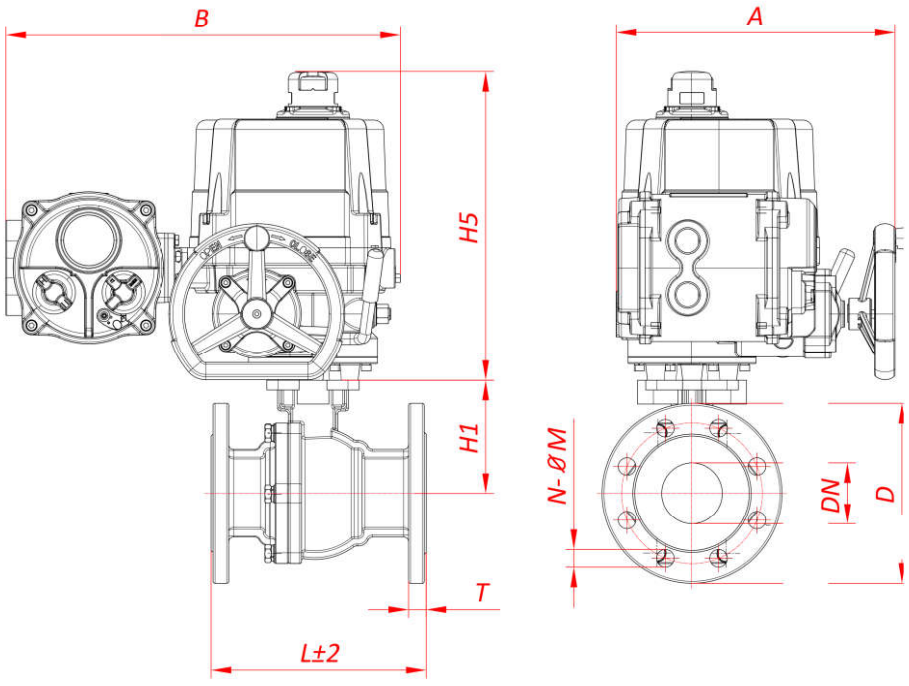
FEATURES

- Protection IP67 Nema 4 and 6
- Optionnal Explosion-proof type Exd II CT5
- Position Indicator on the top
- Epoxy polyester powder coating on alu-alloy shell
- Integrated declutchable gear for manual override
- ON-OPEN Type or Regulating Type Control Way
- Non-intrusive type, LED screen, Control button, Local/Remote Control, Mechnical Torque switch,
- Support multiple voltage designs includes: Single Phase: 24V、110V、220V、230V、240V 50/60Hz/ 3-Phases: 220V、380V、415V、440V 50/60Hz / DC24V





DIMENSIONS



INVESTMENT CASTING BALL VALVE

PO9-GQ-Y :
INTELLIGENT INTEGRATED TYPE

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN16

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN16 PRESSURE RATING	DN15	130	108	95	16	4-14	52	280	244	356	POQ-006
	DN20	130	117	105	18	4-14	56.5	280	244	356	POQ-006
	DN25	140	127	115	18	4-14	65	280	244	356	POQ-006
	DN32	165	140	140	18	4-18	73.5	280	244	356	POQ-006
	DN40	165	165	150	18	4-18	81.5	280	244	356	POQ-010
	DN50	203	178	165	20	4-18	89	280	244	356	POQ-010
	DN65	222	190	185	18	8-18	116	316	286	405	POQ-020
	DN80	241	203	200	20	8-18	127	316	286	405	POQ-020
	DN100	305	229	220	20	8-18	149.5	341	299	423	POQ-050
	DN125	356	–	250	22	8-18	173	341	299	423	POQ-060
	DN150	394	–	285	22	8-22	208	415	336	529	POQ-100
	DN200	457	–	340	24	12-22	256	458	382	568	POQ-200

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN25

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN25 PRESSURE RATING	DN15	130	108	95	16	4-14	52	280	218	356	POQ-010
	DN20	130	117	105	18	4-14	56.5	280	218	356	POQ-010
	DN25	140	127	115	18	4-14	65	280	218	356	POQ-010
	DN32	165	140	140	18	4-18	73.5	280	218	356	POQ-010
	DN40	165	165	150	18	4-18	81.5	316	286	405	POQ-020
	DN50	203	178	165	20	4-18	89	316	286	405	POQ-020
	DN65	222	–	185	22	8-18	116	341	299	423	POQ-050
	DN80	241	–	200	24	8-18	127	341	299	423	POQ-050
	DN100	305	–	235	24	8-22	138	341	299	423	POQ-060

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN40

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN40 PRESSURE RATING	DN15	130	108	95	16	4-14	52	280	244	356	POQ-010
	DN20	130	117	105	18	4-14	56.5	280	244	356	POQ-010
	DN25	140	127	115	18	4-14	65	280	244	356	POQ-010
	DN32	165	140	140	18	4-18	73.5	280	244	356	POQ-010
	DN40	165	165	150	18	4-18	81.5	316	286	405	POQ-020
	DN50	203	178	165	20	4-18	89	316	286	405	POQ-020
	DN65	222	–	185	22	8-18	116	341	299	423	POQ-020
	DN80	241	–	200	24	8-18	127	341	299	423	POQ-020
	DN100	305	–	235	24	8-22	138	341	299	423	POQ-040

INVESTMENT CASTING BALL VALVE

PO9-GQ

PO9-GQ Series:
MOTORIZED BALL VALVE WITH POQ HIGH-PERFORMANCE ACTUATOR

PO9-GQ-S : SUPER INTELLIGENT TYPE

FEATURES

- Protection IP67 Nema 4 and 6
- Optionnal Explosion-proof type Exd II CT5
- Position Indicator on the top
- Epoxy polyester powder coating on alu-alloy shell
- Integrated declutchable gear for manual override
- ON-OPEN Type or Regulating Type Control Way
- Non-intrusive type, LED screen, Control button, Local/Remote Control, Mechnical Torque switch, Class I Menu
- Support multiple voltage designs includes: Single Phase: 24V、110V、220V、230V、240V 50/60Hz/ 3-Phases: 220V、380V、415V、440V 50/60Hz / DC24V

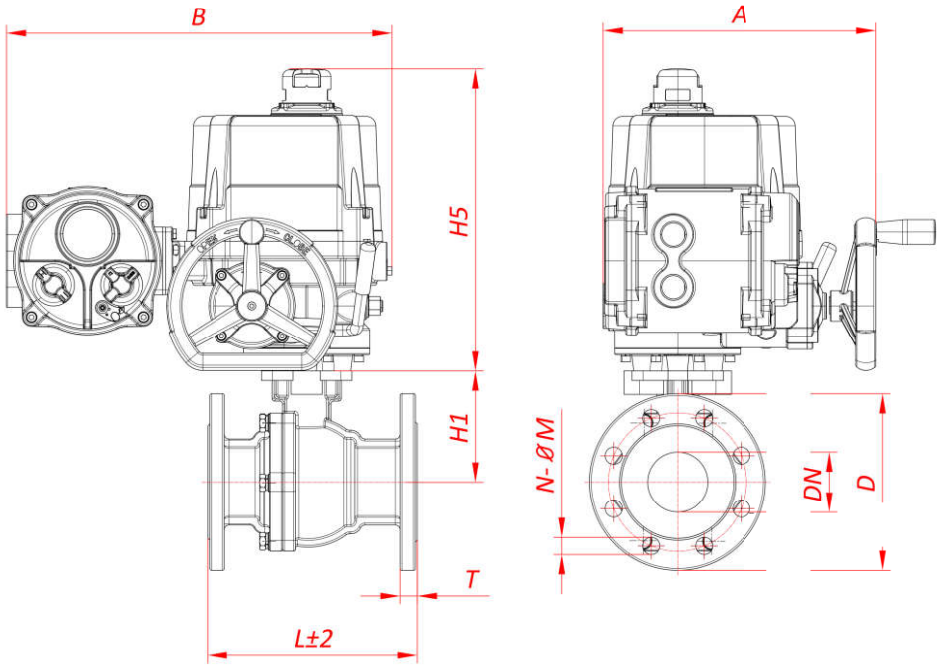
FUNCTIONS

ESD	Equpeed with ESD Function
TERMINALS	6 Terminals for Output signal, available for alarming, Open position, Close position, Over-torques and so on, which more 15 options can be reset with 5 terminals. Optional 4 bistable output contacts
BATTERY	Optional battery support, that is, after the main power supply is powered off, the control system can be awakened.
BLUETOOTH	Optional Bluetooth communication function to realize mobile phone on-site debugging and data download
INTERMITTENT OPERATION	It has the function of intermittent operation to stop the pipeline surge
SETTING MENU	The setting menu includes three levels: basic setting, feedback setting and advanced setting, with independent password protection
DATA RECORD	Optional data recording function, which can access the operation times, operation frequency, operation statistics, alarm records and other data of the actuator
FAULT DIAGNOSIS	With fault diagnosis function, it can diagnose 9 external signals
ELECTRONIC OVER-TORQUE PROTECTION	Optional electronic torque protection, no mechanical contact, good repeatability, torque protection value 30 ~ 100% can be set
LED SCREEN	The dot matrix LCD display screen is adopted, and the display language can be Chinese, English and Russian, with necessary graphics. The human-computer interaction interface is simple, intuitive, more humanized, convenient for debugging, and easy to use.

INVESTMENT CASTING BALL VALVE

PO9-GQ-S :
SUPER INTELLIGENT TYPE

DIMENSIONS



DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN16

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN16 PRESSURE RATING	DN15	130	108	95	16	4-14	52	280	266	377	POQ-006
	DN20	130	117	105	18	4-14	56.5	280	266	377	POQ-006
	DN25	140	127	115	18	4-14	65	280	266	377	POQ-006
	DN32	165	140	140	18	4-18	73.5	280	266	377	POQ-006
	DN40	165	165	150	18	4-18	81.5	280	266	377	POQ-010
	DN50	203	178	165	20	4-18	89	280	266	377	POQ-010
	DN65	222	190	185	18	8-18	116	316	307	426	POQ-020
	DN80	241	203	200	20	8-18	127	316	307	426	POQ-020
	DN100	305	229	220	20	8-18	149.5	341	311	444	POQ-050
	DN125	356	–	250	22	8-18	173	341	311	444	POQ-060
	DN150	394	-	285	22	8-22	208	415	336	550	POQ-100
	DN200	457	-	340	24	12-22	256	458	382	589	POQ-200

INVESTMENT CASTING BALL VALVE

PO9-GQ-S :
SUPER INTELLIGENT TYPE

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN25

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN25 PRESSURE RATING	DN15	130	108	95	16	4-14	52	280	266	377	POQ-010
	DN20	130	117	105	18	4-14	56.5	280	266	377	POQ-010
	DN25	140	127	115	18	4-14	65	280	266	377	POQ-010
	DN32	165	140	140	18	4-18	73.5	280	266	377	POQ-010
	DN40	165	165	150	18	4-18	81.5	316	307	426	POQ-020
	DN50	203	178	165	20	4-18	89	316	307	426	POQ-020
	DN65	222	-	185	22	8-18	116	341	311	444	POQ-050
	DN80	241	-	200	24	8-18	127	341	311	444	POQ-050
	DN100	305	-	235	24	8-22	138	341	311	444	POQ-060

DIMENSIONS OF MOTORIZED BALL VALVE WITH POQ ACTUATOR IN RATING PN40

	Size	L(Mid Seires)	L(Short Series)	D	T	N-M	H1	H5	A	B	POQ Model
PN40 PRESSURE RATING	DN15	130	108	95	16	4-14	52	280	266	377	POQ-010
	DN20	130	117	105	18	4-14	56.5	280	266	377	POQ-010
	DN25	140	127	115	18	4-14	65	280	266	377	POQ-010
	DN32	165	140	140	18	4-18	73.5	280	266	377	POQ-010
	DN40	165	165	150	18	4-18	81.5	316	307	426	POQ-020
	DN50	203	178	165	20	4-18	89	316	307	426	POQ-020
	DN65	222	-	185	22	8-18	116	341	311	444	POQ-020
	DN80	241	-	200	24	8-18	127	341	311	444	POQ-020
	DN100	305	-	235	24	8-22	138	341	311	444	POQ-040