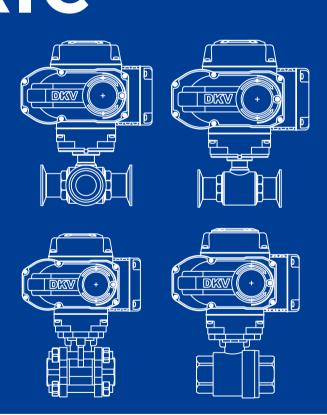
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# ELECTRIC VALVE 自認的限



# 广东帝为阀门有限公司

**GUANGDONG DKV VALVE CO LIMITED** 











MANUFACTURE
HIGH
QUALITY
VALVES

# 公司简介

DKV帝为阀门-用专业、实用的阀门经验为您提供更加合适管道工程方案。DKV帝为阀门源于具有38年管道工程经验的建大集團,于2019年在中国佛山创立,是一家专业的管道流体控制阀门研制公司。DKV引进国外德国和日本的先进流体阀门方案,经过多年的研发,带来了高品质的电动阀门、气动阀门、自控阀门、食品卫生级阀门、工业通用及水用阀门等。DKV客户涵盖环保、水处理、医药、食品、印染、新材料、石油、化工、天然气、电力、核电、矿山、机械制造、特种罐体制造、市政建筑、地产建筑等诸多领域。 DKV帝为阀门通过:欧盟CE认证、ISO9001质量管理体系认证、ISO14001环境管理体系认证、OHSAS18001职业健康安全管理体系认证、德国莱茵TÜV金品诚企认证、国家权威检测质量合格产品证书、及其他证书。

我公司一贯坚持重合同、守信用的原则。我们愿以优质的产品和周到的服务,在国内及国际市场上完成自己的使命。随着市场的不断更新和升级,我们将继续致力于生产领域,不断提高技术水平。

DKV valve - with professional and practical valve experience to provide you with more suitable pipeline engineering solutions. DKV Valve originated from JIANDA Group, which has 38 years of pipeline engineering experience. It was founded in Foshan, China in 2019. It is aprofessional pipeline fluid control valve development company. DKV has introduced advanced fluid valve solutions from Germany and Japan. After years of research and development, it has brought high quality electric valves, pneumatic valves, automatic control valves, food sanitation valves, industrial valves and water valves, etc. DKV customers cover many fields such asenvironmental protection, water treatment, medicine, food, printing and dyeing, new materials, petroleum, chemical industry, natural gas, electric power, nuclear power,mining, machinery manufacturing, special tank manufacturing, municipal construction,real estate construction and so on. DKV valve through certification: European CE certification, ISO9001 quality management system certification, ISO14001 environmental management system certification, OHSAS18001 occupational health and safety management system certification, Germany TUV Verified Supplier Certification, national authority testing quality qualified product certificate, and other certificates.

Our company always adheres to the principle of honoring contract and keeping good faith. We are willing to complete our mission in the domestic and international market with high quality products and considerate service. As the market continues to update and upgrade, we will continue to commit to the production field, and constantly improve the technical level.

# 人才团队

TALENTS

#### 让人才与帝为共成长

帝为阀门有限公司积极致力于员工个人能力的培养和开发。帝为定期实施一系列的集体规模培训。如针对新人的始业培训,针对技术与管理人员的专业培训,以及"传帮带"模式。将业务需要的人才培养成为业内的最高水平,实现企业与员工的共同成长。

























# COMPANY HONOR

公司荣誉



















#### **Electric 2PCS threaded ball valve**

#### Introduction

The 2 piece ball valve small size, large diameter, switch easy and convenient, reliable seal, simple structure, easy maintenance, sealing surface and sphere often closed state, not easy to be medium erosion, can be applied to water, gas, steam, oil, nitric acid, acetic acid and other media.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bus
Voltage Optional	AC110-240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customized
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



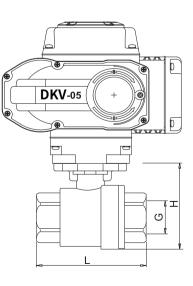
#### **Technical Parameters**

	Body	Valve components		
Size Range	DN08-DN100	Seating Material	PTFE: -20℃~180℃ PPL: -20℃~150℃	
Body material	SS304 SS316 SS316 L	Core Material	Stainless Steel	
End Connection	Female Thread	Stem Material	Stainless Steel	
Operating Pressure	PN1.6MPa	Applicable media	Control of Water, Air, Gas,	
Structure	Floating ball core	Applicable Media	Oil, Liquid, Steam	



MEDLE	DN08	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
G	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
D	8	10	15	20	25	32	40	50	65	80	100
L	55	55	55	73	84	98	106	121	160	180	220
Н	30	30	37	40	49	53	62	70	93	106	126

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.





#### **Electric 3PCS threaded ball valve**

#### Introduction

The 3 piece design allows for the center part of the valve containing the ball, stem & seats to be easily removed from the pipeline. This facilitates efficient cleaning of deposited sediments, replacement of seats and gland packings, polishing out of small scratches on the ball, all this without removing the pipes from the valve body. The design concept of a three piece valve is for it to be repairable.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bus
Voltage Optional	AC110-240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customized
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4

#### **Technical Parameters**

	Body	Valve components		
Nominal size	DN08-DN100	Seat material	PTFE: -20℃~180℃ PPL: -20℃~250℃	
Body material	SS304 SS316 SS316 L	Core material	SS304 SS316	
Connection type	Female Thread	Stem material	SS304	
Pressure Rating	PN1.0, 2.5, 4.0, 6.4, 31.5MPa	Applicable medium	Water, Liquids, Gas, Oil,	
Structure type	Floating ball core	Applicable MediuM	Powder, Steam, Acid-base Corrosive Medium.	

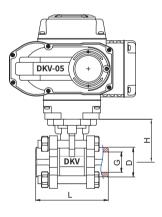
#### **Qutine Size drawing**

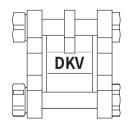
Qutine Size drawing											ι	JNIT: mm
	MEDLE	DN08	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
	Actuator	uator DKV -05							DI	<b>KV</b> -10	<b>DKV</b> -16	<b>DKV</b> -30
	G	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
	D	11.2	12.5	15	20	25	32	40	50	65	80	100
	L	60	60	72	82	90	112	120	145	185	210	268
	н	42	42	42	48.5	58.5	63	71	78	100	109	140
	Weight (Kg)	3.8	3.8	3.8	3.8	4.1	4.5	5.0	5.7	10.1	14.6	19.8

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.













#### Introduction

The 3 piece design allows for the center part of the valve containing the ball, stem & seats to be easily removed from the pipeline. This facilitates efficient cleaning of deposited sediments, replacement of seats and gland packings, polishing out of small scratches on the ball, all this without removing the pipes from the valve body. The design concept of a three piece valve is for it to be repairable

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bus
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customized
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



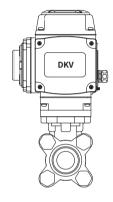
	Body	Valve components		
Nominal size	DN08-DN100	Seat material	PTFE: -20℃~180℃ PPL: -20℃~250℃	
Body material	SS304 SS316 SS316 L	Core material	SS304 SS316	
Connection type	Clamp	Stem material	SS304	
Pressure Rating	PN1.0, 2.5, 4.0, 6.4, 31.5MPa	Applicable medium	Water, Liquids, Gas, Oil,	
Structure type	Floating ball core	Applicable medium	Powder, Steam, Acid-base Corrosive Medium.	

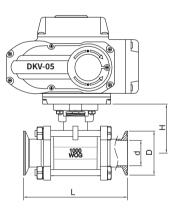
#### **Qutine Size drawing**

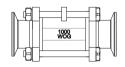
									UNIT: mm
MEDLE	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
Actuator			DKV-05			DI	⟨V-10	<b>рку</b> -16	<b>DKV</b> -30
G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
D	50. 5	50. 5	50. 5	50. 5	50. 5	64	91	106	119
L	100	100	120	130	140	156	196	228	242
н	55	60	70	82	90	105	120	132	158

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.











## ANSI 150#Electric 2 way flange ball valve

#### Introduction

Ultra Low Torque, Elegant, Durable, Corrosion Resistance

Full Flow, PTFE Ball sealing, Low Torque Can Use the Handle Regulating Valve Seat Tightness Released By The Central Section Is Still Intact, Valves, Replaceable To Provide Supplementary Platform Embedded Copper Nut Products Convenient Automatic Actuator

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110-240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



#### **Technical Parameters**

	Body	Valve components		
inal size	DN08-DN100	Seat material	PTFE: -30°C ~180°C PPL: -30°C ~250°C	
material	SS304 SS316 SS316 L	Core material	SS304 SS316	
ction type	Clamp	Stem material	SS304	
ure Rating	PN1.0, 2.5, 4.0, 6.4, 31.5MPa	Applicable medium	Water, Liquids, Gas, Oil, Powder, Steam, Acid-base	
ture type	Floating ball core	Applicable Medium	Corrosive Medium.	

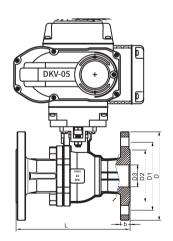
#### **Qutine Size drawing**

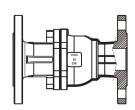
111	NΙ.	Т٠	m	m

I	MEDLE	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
	G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
	D3	15	20	25	30	40	50	65	80	100	125	150	200
	D2	34.9	42.9	50.8	63.5	73	92.1	104.8	127	157.2	185.7	215.9	269.9
	D1	60.3	69.9	79.4	88.9	98.4	120.7	139.7	152.4	190.5	215.9	241.3	298.5
	D	90	100	110	115	125	150	180	190	230	255	280	345
	L	108	117	127	140	165	178	190	203	229	356	394	457
	b	11.5	13	14.5	16	17.5	19.5	22.5	24	24	24	25.5	29
	n–φd	4−⊕14	4–ф14	4-⊕14	4–∳18	4–∳18	4–ф18	4–∳18	8–ф18	8–∳18	8–ф18	8-0428	4-ф23
A	Actuator	DKV-05				<b>DKV</b> -10	<b>DKV</b> -16	DK	<b>V -</b> 30	<b>DKV</b> -60	DKV -	125	

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.







#### Electric 2 way lined flange ball valve

#### Introduction

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#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



#### **Technical Parameters**

	Body	Valve components			
Nominal Size	DN15~DN200	Seat Material	PTFE: -30°C~180°C		
Body Material	Castiron	Disc Material	Castiron		
Connection Type	Flange	Stem Material	Stainless Steel		
Pressure Rating	PN1.0MPa	Applicable Medium	Control of Water, Air, Gas,		
Structure type	Floating ball core	Applicable Medium	Oil, Liquid, Steam		

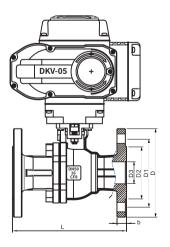
#### **Qutine Size drawing**

UNIT: mm

MEDLE	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
D3	15	20	25	30	40	50	65	80	100	125	150	200
D2	45	55	65	78	85	100	120	135	155	185	210	265
D1	65	75	85	100	110	125	145	160	180	210	240	295
D	95	105	115	135	145	160	180	195	215	245	280	335
L	140	140	150	165	180	200	220	250	280	320	360	400
b	14	16	16	18	18	20	20	22	22	24	24	26
n–φd	4-ф14	4-ф14	4-ф14	4-ф18	4-ф18	4–∳18	4–ф18	8–⊕18	8–⊕18	8–⊕18	8 <del>-q</del> 28	8-Ф23

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.





## Electric foood gradde clamp ball vavle

#### Introduction

The 3 piece design allows for the center part of the valve containing the ball, stem & seats to be easily removed from the pipeline. This facilitates efficient cleaning of deposited sediments, replacement of seats and gland packings, polishing out of small scratches on the ball, all this without removing the pipes from the valve body. The design concept of a three piece valve is for it to be repairable.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



#### **Technical Parameters**

	Body	Valve components			
Nominal Size	DN15~DN100	Seat Material	PTFE: -30 °C ~180 °C PPL: -30 °C ~ 250 °C		
Body Material	SS304, SS316, SS316L	Disc Material	SS304, SS316, SS316L		
Connection Type	Clamp, Welding	Stem Material	SS304,		
Pressure Rating	PN1.6MPa	Design Standard	ISO、DIN、IDF、SMS、3A		
Structure type	Floating ball core 3 way L-type/ T-type ball valve	Applicable Medium	Food, Medicine, Packaging Machinery, Filling Machinery And Other Health Conditions Using Level.		

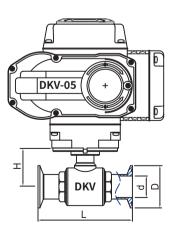
#### **Qutine Size drawing**

Size	Ø19	Ø25	Ø32	Ø38	Ø51	Ø63	Ø76	Ø89	Ø102	
DN	DN15	DN20	DN25	DN32	DN40	DN50	DN65	Dn80	DN100	
d	16	21	29	35	47	59	72	85	97	
D	50.5	50.5	50.5	50.5	64	77.5	91	106	119	
L	102	117	123	140	180	200	220	235	275	
Actuator		<b>DKV</b> -05					<b><v< b="">-10</v<></b>	<b>DKV</b> -16		
Weight (Kg)	3.8	3.9	3.95	4.3	5.1	7.3	8.8	11.4	13.5	

#### Installation Instruction

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.





UNIT: mm



#### Introduction

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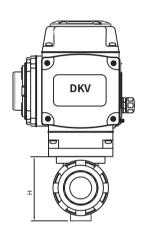
#### **Electric Actuator**

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Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



#### **Technical Parameters**

	Body	Valve components			
ominal Size	DN15~DN400	Seat Material	EPDM, PTFE		
dy Material	Plastic UPVC	Core Material	Plastic UPVC		
nection Type	Double union	Stem Material	SS304, SS410		
ssure Rating	PN1.0MPa PN1.6MPa	Applicable Madison	Water, Liquids, Gas, Oil,		
ructure type	Floating ball core	Applicable Medium	Powder, Steam, Acid-base Corrosive Medium.		

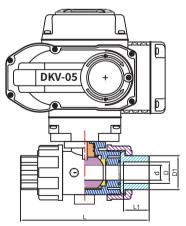


#### **Qutine Size drawing**

1

MEDLE	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
d	14	20	25	30	38	50	63	78	100
D	20	25	32	40	50	63	75	90	110
D1	30	36	45	55	64	77	96	112	141
L1	22. 8	25	28.5	32	34.8	39	46	48	64.5
L	121. 8	134. 5	150.2	166.8	179	205	233	257	309
н	61	74	90	104	121	146	169	220	255
Weight (Kg)	3. 4	3. 5	3. 65	3.88	4.6	5.1	7. 6	9. 4	12. 6
Actuator		<b>DKV</b> -05						DK	<b>V</b> -16

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.





# Electric 2 way ultrahigh pressure ball valve

#### Introduction

Ultra Low Torque, Elegant, Durable, Corrosion Resistance

Full Flow, PTFE Ball sealing, Low Torque Can Use the Handle Regulating Valve Seat Tightness Released By The Central Section Is Still Intact, Valves, Replaceable To Provide Supplementary Platform Embedded Copper Nut Products Convenient Automatic Actuator

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110-240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



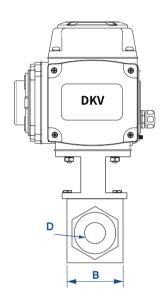
	Body	Valve components			
Nominal Size	DN15~DN200		PTFE: -30°C~180°C		
Body Material	SS304, SS316, SS316L	Seat Material	PPL: -30°C ~250°C		
Connection Type	Thread	Disc Material	SS304, SS316, SS316L		
Pressure Rating	PN1.6-PN6.3MPa	Stem Material	SS304,		
Structure type	Floating ball core	Applicable Medium	Water, Liquids, Gas, Oil, Powder, Steam, Acid-base Corrosive Medium.		

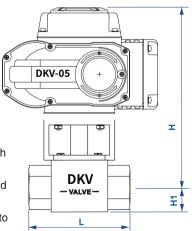
#### **Qutine Size drawing**

Qu'une	oize diaw	8						UNIT: mm
MEDL	E DN08	DN10	DN15	DN20	DN25	DN32	DN40	DN50
G	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
D	6	8	10	14.6	19.6	24.8	30	39.6
В	33	35	37	45	55	88	102	113
L	69	72	83	95	113	120	131	142
Н	13	16	18	24	32	38	42	50
H1	176	176	176	237	237	249	285	348

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.









#### Electric 3 way threaded ball valve

#### Introduction

Electric three way ball valve is classified into L type electric three way ball valve and T type electric three way ball valve. L type electric three way ball valve can connect mutually perpendicular two pipelines. T type electric three way ball valve is utilized to divert, interflow and flow reversal.

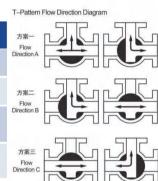
#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



#### **Technical Parameters**

Val	ve Body	Valve Components			
Size Range	DN08-DN65	Body Material	Stainless Steel		
Operating Pressure	1.0MPa-6.4MPa	Core Material	Stainless Steel		
End Connection	d Connection Threaded, Butt Welded		PTFE: -30°C~180°C PPL:-30°C~250°C		
Structure	3 Way L-port/ T-port	Applicable Media	Control of Water, Air, Gas, Oil, Liquid, Steam		



#### **Qutine Size drawing**

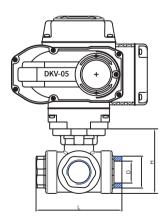
Qualific 5	ize didi	8						UNI	T: mm
MEDLE	DN08	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65
Actuator		C	COVNA-0	5	COVI	NA-10	COVNA-16		
G	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
D	10	12	12	15	20	25	32	38	48.5
L	71	71	74	88	92	124	138	154	180
Н	56	56	58	60	70	82	95	100	180
Weight (Kg)			3.7	3.8	4.1	7.6	8.1	9.3	146



L-Pattern Flow Direction Diagram



- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.





#### Electric 3 way falnge ball valve

UNIT: mm

#### Introduction

Quick open and close, less flowing resistance. PTFE sealing, perfect sealing, high temperature, corrosion resistance, acid and alkali resistance. The main features of the valve itself is compact, easy operation and maintenance for water, acids and natural gas general working media.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



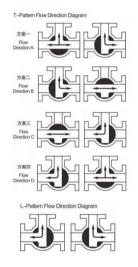
Val	ve Body	Valve Components			
Size Range	DN15~DN200	Body Material	Stainless Steel, WCB		
Operating Pressure	1.6MPa -6.4MPa	Core Material	Stainless Steel, WCB		
End Connection	Flange	Sealing Material	PTFE: -30°C~180°C PPL: -30°C~250°C		
Structure	3 way L-Port/ T-Port	Applicable Media	Control of Water, Air, Gas, Oil, Liquid, Steam		

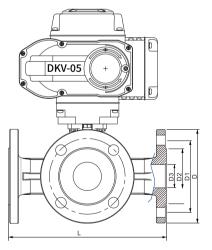
#### **Qutine Size drawing**

MEDLE	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
D3	15	20	25	30	40	50	65	80	100	125	150	200
D2	45	55	65	78	85	100	120	135	155	185	210	265
D1	65	75	85	100	110	125	145	160	180	210	240	295
D	95	105	115	135	145	160	180	195	215	245	280	335
L	150	164	180	200	220	240	260	280	320	380	440	550
Н	53	58.5	70	77.5	88.5	92	107	119	150	200	240	300
В	72	80	90	100	110	120	130	140	160	190	220	260
n–φd	4-ф14	4-ф14	4-ф14	4-∳18	4–∳18	4–∳18	4-ф18	8–ф18	8–∳18	8–∳18	8-428	4-ф23
Weight (Kg)												
Actuator		DKV-0	5	Dk	<b>(V -</b> 10	<b>DKV</b>	Dk	<b>(V -</b> 30	<b>DKV</b>	DKV 125	DKV -250	DKV -400

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.









# Sanitary clamp electric 3 way ball valve

LINUT

#### Introduction

Sanitary pneumatic 3 way ball valves has been through the sophisticated inspection process and strict quality management. Using internal and external polishing and sterilization. Clamp quick connection, all–inclusive seal, easy to disassemble, cleaning and maintenance. Three–way sanitary ball valve for sanitarypipelines medium commutation, diversion, confluence, mixed flow. They can be manually operated or automated with an electric or pneumatic actuator.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4

#### **Technical Parameters**

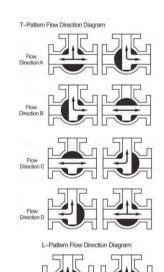
	Body	Valve components			
Nominal Size	DN15~DN100	Seat Material	PTFE: -30 °C ~180 °C PPL: -30 °C ~ 250 °C		
Body Material	SS304, SS316, SS316L	Disc Material	SS304, SS316, SS316L		
Connection Type	onnection Type Clamp, Welding Ste		SS304,		
Pressure Rating	PN1.6MPa	Design Standard	ISO、DIN、IDF、SMS、3A		
Structure type	Floating ball core 3 way L-type/ T-type ball valve	Applicable Medium	Food, Medicine, Packaging Machinery, Filling Machinery And Other Health Conditions Using Level.		

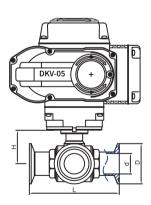
#### **Qutine Size drawing**

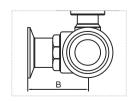
								UN	H I . IIIIII
Size	Ø19	Ø25	Ø32	Ø38	Ø51	Ø63	Ø76	Ø89	Ø102
DN	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
d	16	22	29	35	48	59	72	85	98
D	50.5	50.5	50.5	50.5	64	77.5	91	106	119
L	105	126	138	155	186	200	220	240	268
Н	45	48	52.5	65	74	84	102	112	122
В	60	61. 5	69	77	91	109	122	135	150
Actuator		DKV-05				KV-10	DH	(V -16	<b>DKV</b> -30
Weight	3. 95	4. 1	4. 4	4. 8	7. 4	9. 1	11. 6	13. 6	17. 3

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.









#### Electric 3 way UPVC ball valve

#### Introduction

Ultra Low Torque, Elegant, Durable, Corrosion Resistance

Full Flow, PTFE Ball sealing, Low Torque Can Use the Handle Regulating Valve Seat Tightness Released By The Central Section Is Still Intact, Valves, Replaceable To Provide Supplementary Platform Embedded Copper Nut Products Convenient Automatic Actuator

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110-240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



	Body	Valve components		
ominal Size	DN15~DN <b>50</b>	Seat Material	EPDM, PTFE	
dy Material	Plastic UPVC	Core Material	Plastic UPVC	
nection Type	Double union	Stem Material	SS304, SS410	
ssure Rating	PN1.0MPa PN1.6MPa	And Frankla Marking	Water, Liquids, Gas, Oil,	
ructure type	Floating ball core	Applicable Medium	Powder, Steam, Acid-base Corrosive Medium.	

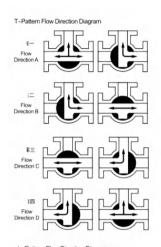
#### **Qutine Size drawing**

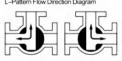
UNIT: mm

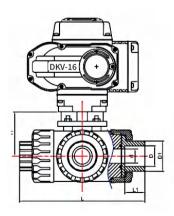
MEDLE	DN15	DN20	DN25	DN32	DN40	DN50
G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
d	14	20	25	30	38	50
D	20	25	32	40	50	63
D1	30	36	45	55	64	77
L1	22. 8	25	28.5	32	34.8	39
L	163	172	200	206	240	246
н	79	79	82	82	110	110
Weight (Kg)	4.2	4.3	4.9	5.1	7.7	6.1
Actuator	DKV -05			<b>DKV</b> -10		

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.











# Electric 3 way ultrahigh pressure ball valve

#### Introduction

Ultrahigh pressure ball is adopt ball core rotate 90 degrees to open or close the valve, the brick, high pressure forging with German import seal assembly, provided by initial seal, stainless steel butterfly spring cushion packing seal surface enhanced with medium pressure rise, self sealing performance is strong, super high pressure ball valve can be used in the ultra high pressure liquid, ultrahigh pressure gas or the mixture of main application industry has ultrahigh pressure testing machine, pneumatic pumps, hydraulic pump, deep—sea detectors.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110-240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4

#### **Technical Parameters**

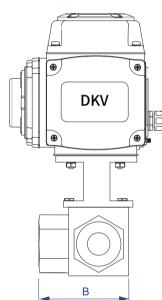
	Body	Valve components		
Nominal Size	DN15~DN200		PTFE: -30°C~180°C	
Body Material	SS304, SS316, SS316L	Seat Material	PPL: -30°C ~250°C	
Connection Type	Flange	Disc Material	SS304, SS316, SS316L	
Pressure Rating	PN1.6-PN6.3MPa	Stem Material	SS304,	
Structure type	Floating ball core	Applicable Medium	Water, Liquids, Gas, Oil, Powder, Steam, Acid-base Corrosive Medium.	

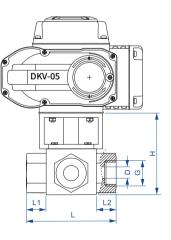
#### **Qutine Size drawing**

								UNIT: mm
MEDLE	DN08	DN10	DN15	DN20	DN25	DN32	DN40	DN50
G	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
D	8	10	15	20	25	32	40	50
В	64	64	65	80	95	107	123	
Н	43	43	43	53	64	70	79	
L	80	80	82	101	120	127	150	
L1	19	19	20	25	29	30	28	
L2	19	19	20	25	29	30	28	

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.









#### **Electric soft sealing butterfly valve**

#### Introduction

According to the sealing performance, pneumatic butterfly valve can be divided into metal seal and soft seal type. Advantages pneumatic butterfly valve over other type valves may include:compact structure, miniature size, long servise life, good sealing performance, easy maintenance, quick detachable and installation.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



	Body	Valve components		
Size Range	DN50-DN600	Seating Material	NBR, EPDM, VITON, PTFE	
Body material	SS, CI, Ductile Iron, WCB	Disc Material	SS, CI, Ductile Iron, WCB	
End Connection	Wafer Flange	Stem Material	Stainless Steel	
Operating Pressure	< 1.6MPa	Applicable media	Control of Water, Air, Gas,	
Structure	Midline Structure / A-type	Applicable Media	Oil, Liquid, Steam	

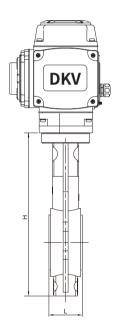
#### **Qutine Size drawing**

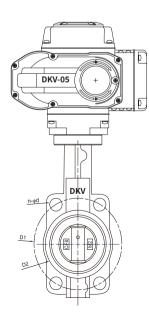
U	N	1-	Γ:	m	۱r	n

MEDLE	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN500
Inch	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
D	50	65	80	100	125	150	200	250	300	350	400	500
D1	96	104	127	153	180	206	270	320	368	428	482	605
D2	125	145	160	180	210	240	295	355	410	470	525	585
L	45	47	48	58	59	59	64	70	78	80	108	120
Н	212	225	256	280	315	345	405	480	554			
n–φd	4-ф18	4-ф18	4-ф18	4-ф18	4-ф18	<b>4-</b> \$23	<b>4-</b> ∳23	<b>4-</b> \$23	<b>4-</b> ∳26	<b>4-</b> φ26	4-ф26	4-∳30
Weight (Kg)	5. 2	5. 6	6. 2	8.9	10.3	11. 7	18.8	24. 8	43. 34			
Actuator	<b>DKV</b> -05	<b>DKV</b> -05	<b>DKV</b> -05	<b>DKV</b> -10	<b>DKV</b> -10	<b>DKV</b> -16	<b>DKV</b> -30	<b>DKV</b> -30	<b>DKV</b> -60	<b>DKV</b> -60	<b>DKV</b> -125	<b>DKV</b> -250

- ${\bf 1.}\ Verify\ that\ the\ valve\ break away\ torque\ is\ less\ than\ the\ rated\ output\ torque\ of\ the\ actuator.$
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.









#### **Electric Soft sealing butterfly valve**

#### Introduction

According to the sealing performance, pneumatic butterfly valve can be divided into metal seal and soft seal type. Advantages pneumatic butterfly valve over other type valves may include:compact structure, miniature size, long servise life, good sealing performance, easy maintenance, quick detachable and installation.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



#### **Technical Parameters**

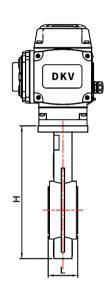
	Body	Valve components		
Size Range	DN50-DN600	Seating Material	NBR, EPDM, VITON, PTFE	
Body material	Stainless Steel	Disc Material	Stainless Steel	
End Connection	Wafer Flange	Stem Material	Stainless Steel	
Operating Pressure	< 1.6MPa	Applicable media	Control of Water, Air, Gas,	
Structure	Midline Structure / A-type	Applicable media	Oil, Liquid, Steam	

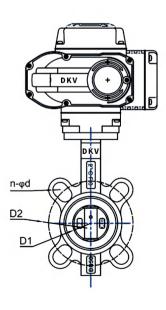
#### **Qutine Size drawing**

UNII	: mm
DNI400	DNEO

MEDLE	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN500
Inch	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
D	52.7	64.4	78.8	104.2	123.3	157	202.5	250.5	301.6	333.3	389.6	491.6
D1	89	104	127	153	180	206	270	320	368	428	482	605
D2	125	145	160	180	210	240	270	320	368	428	482	585
L	41	43	45	50	54	54	60	66	75.5	86.5	86.5	131.8
н	207	219	232	262	265	296	353	390	460	508	597	677
n–φd	4-ф18	4-ф18	4-ф18	4-φ18	4-ф18	<b>4-</b> \$23	<b>4-</b> \$23	<b>4-</b> \$23	<b>4-</b> ∳26	<b>4-</b> ∳26	4-ф26	4-ф30
Weight (Kg)	5.2	5.6	7.2	8.9	10.3	11.7	18.8	24.8	305			
Actuator	<b>DKV</b> -05	<b>DKV</b> -05	<b>DKV</b> -05	<b>DKV</b> -10	<b>DKV</b> -10	<b>DKV</b> -16	<b>DKV</b> -30	<b>DKV</b> -30	<b>DKV</b> -60	<b>DKV</b> -60	<b>DKV</b> -125	<b>DKV</b> -250

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.







#### Lug Type electric butterfly vale

#### Introduction

According to the sealing performance, pneumatic butterfly valve can be divided into metal seal and soft seal type. Advantages pneumatic butterfly valve over other type valves may include:compact structure, miniature size, long servise life, good sealing performance, easy maintenance, quick detachable and installation.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bu
Voltage Optional	AC110-240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



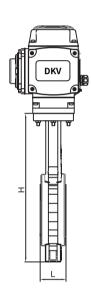
#### **Technical Parameters**

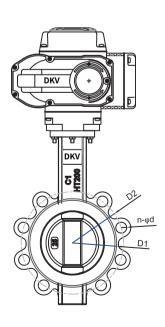
	Body	Valve components				
Size Range	DN50-DN600	Seating Material	NBR, EPDM, VITON, PTFE			
Body material	Stainless Steel	Disc Material	Stainless Steel			
End Connection	Wafer Flange	Stem Material	Stainless Steel			
Operating Pressure	< 1.6MPa	Applicable media	Control of Water, Air, Gas,			
Structure Midline Structure / A-type		Applicable media	Oil, Liquid, Steam			



										UN	IT: mm	
MEDLE	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN500
Inch	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
D	52.7	64.4	78.8	104.2	123.3	157	202.5	250.5	301.6	333.3	389.6	491.6
D1	89	104	127	153	180	206	270	320	368	428	482	605
D2	125	145	160	180	210	240	295	355	410	470	525	585
L	41.4	44	45	52	54	54	55	60	65	76	86	130
Н	217	234	252	289	318	341	428	490	567			
n–φd	4-M16	4-M16	8-M16	8-M16	8-M16	8-M20	12-M20	12-M24	12-M24			
Actuator	<b>DKV</b> -05	<b>DKV</b> -05	<b>DKV</b> -05	<b>DKV</b> -10	<b>DKV</b> -10	<b>DKV</b> -16	<b>DKV</b> -30	<b>DKV</b> -30	<b>DKV</b> -60			

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.





# ANSI 150# Electric flange butterfly valve

#### Introduction

According to the sealing performance, pneumatic butterfly valve can be divided into metal seal and soft seal type. Advantages pneumatic butterfly valve over other type valves may include:compact structure, miniature size, long servise life, good sealing performance, easy maintenance, quick detachable and installation.

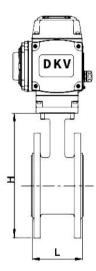
#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bus
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	lp65; Explosion Proof Construption Are Acailable: EX d II BT4



#### **Technical Parameters**

	Body	Valve components				
Size Range	1.1/2"-3"	Seating Material	NBR, EPDM, VITON, PTFE			
Body material	SS, CI, Ductile Iron, WCB	Disc Material	Stainless Steel , WCB			
End Connection	150LB	Stem Material	Stainless Steel , WCB			
Operating pressure	< 1.6MPa	Applicable media	Control of Water, Air, Gas, Oil, Liquid, Steam			
Structure	Midline Structure / A-type	Applicable Media				

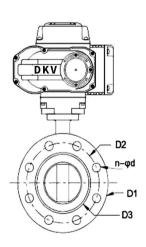


#### **Qutine Size drawing**

UNIT: mm

MEDLE	DN50	DN65	DNB0	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN500
Inch	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
D	52.7	64.4	83	104.2	123.3	157	202.5	250.5	301.6	333.3	389.6	491.6
D1	165	185	200	220	250	285	340	395	445	505	565	670
D2	125	145	160	180	210	240	295	355	410	470	525	620
D	99	118	132	156	184	211	266	319	370	429	480	582
L	108	112	114	127	140	140	150	165	185	195	216	229
Н	192	207	224	255	290	325	386	460	510	565	632	759
n–φd	4-φ18	4-φ18	8-ф18	8-ф18	8-ф18	8-ф22	8-ф22	12-ф22	12-ф22	16-ф22	16-ф26	20-ф22

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.





# **Electric fluorine lined butteerfly** valve

#### Introduction

According to the sealing performance, pneumatic butterfly valve can be divided into metal seal and soft seal type. Advantages pneumatic butterfly valve over other type valves may include:compact structure, miniature size, long servise life, good sealing performance, easy maintenance, quick detachable and installation.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bus
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4

#### **Technical Parameters**

	Body	Valve components					
Size Range	DN50-DN600	Seating Material	PTFE				
Body material	Stainless Steel	Disc Material	Stainless Steel				
End Connection	Wafer Flange	Stem Material	Stainless Steel				
Operating Pressure	Operating Pressure <1.6MPa		Control of Water, Air, Gas,				
Structure Midline Structure / A-type		Applicable media	Oil, Liquid, Steam				

#### **Qutine Size drawing**

											UNI	I: mm
MEDLE	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN500
Inch	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
D	50	65	80	100	125	150	200	250	300	350	400	500
D1	96	104	127	153	180	206	270	320	368	428	482	605
D2	125	145	160	180	210	240	295	355	410	470	525	585
L	43	46	46	52	56	56	60	68	78	78	102	127
L1	108	112	114	127	140	140	152	165	178	190	216	229
н	212	230	233	270	298	337	407	480	555	610	715	870
n–φd	4-ф18	4¬Φ18	8-418	8-ф18	8¬Ф18	8-Ф23	8-Ф23	12 <b>-</b> ф23	12- <b></b> 423	16 <b>-</b> ⊕23	16-ф25	20-ф25

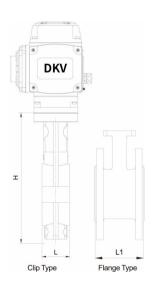
#### Installation Instruction

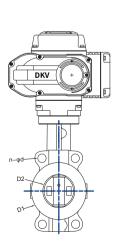
**DKV** -05

Actuator DKV -05

- 1. Verify that the valve breakaway torque is less than the rated output torque of the actuator.
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.









#### **Electric PVC water butterfly valve**

#### Introduction

According to the sealing performance, pneumatic butterfly valve can be divided into metal seal and soft seal type. Advantages pneumatic butterfly valve over other type valves may include:compact structure, miniature size, long servise life, good sealing performance, easy maintenance, quick detachable and installation.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bus
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4



#### **Technical Parameters**

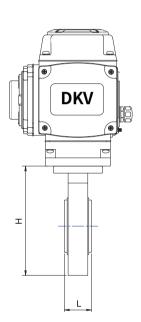
	Valve Body	Valve Components		
Size Range	DN50-DN600	Body Material	UPVC, CPVC, RPP, PVDF	
Operating Pressure	1.0MPa	Stem Material	UPVC, CPVC, RPP, PVDF	
End Connection	Wafer, Flange	Sealing Material	EPDM, NBR	
Structure	Midline Structure A Type	Applicable Media	Compatible PVC Food Industry Chemical Solvents	

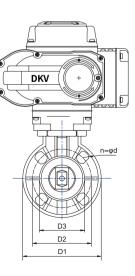
#### **Qutine Size drawing**

UNIT: mm

MEDLE	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN500
Inch	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"
D	52.7	64.4	83	104.2	123.3	157	202.5	250.5	301.6	333.3	389.6	491.6
D1	165	185	200	220	250	285	340	395	445	505	565	670
D2	125	145	160	180	210	240	295	355	410	470	525	620
D3	99	118	132	156	184	211	266	319	370	429	480	582
L	108	112	114	127	140	140	150	165	185	195	216	229
Н	192	207	224	255	290	325	386	460	510	565	632	759
n–φd	4-ф18	4-ф18	8-ф18	8 <b>-</b> ф1 <b>8</b>	8-ф18	8 <del>-</del> Ψ22	8- Ψ22	12 <b>-</b> ∳22	12- <b></b> 422	<b>16-</b> ∳22	16-ф26	20-ф26
Weight (Kg)	4.48	4.48	5.28	7.38	7.78	9.02	10.48					

- 1. When removing the valve from storage, a careful check should be made to ensure that the valve has not been damaged during the storage period.
- 2 . Valve open or close position is indicated on the notch plate for lever operated valves or on the top of the gear operator for gear operator operated valves.
- 3. Center valve, span body with bolts, but do not tighten. Slowly open disc to ensure that it clears adjacent pipe ID and leave at full open position.
- 4. For flange welding center valve with disc 10 open between flanges, span bolts, align this assembly in pipe and tack weld flanges to pipe. After tack welding, remove valve and finish welding.
- 5. Valve should be checked for identification purpose and ensure that characteristics of valve matches to those specified for piping specifications, for the line where that is to be mounted. Nameplate instructions will give the necessary information.







# Sanitary clamp electric butterfly valve

#### Introduction

The 3 piece design allows for the center part of the valve containing the ball, stem & seats to be easily removed from the pipeline. This facilitates efficient cleaning of deposited sediments, replacement of seats and gland packings, polishing out of small scratches on the ball, all this without removing the pipes from the valve body. The design concept of a three piece valve is for it to be repairable.

#### **Electric Actuator**

ON/OFF Type	Feedback: the Active Contact Signal, Passive Contact Signal, Resistance, 4-20mA
Regulation Type	Input & Output Signal: DC 4-20mA, DC 0-10V, DC 1-5V
Field Operation	The Field, Remote Control Switch Regulation and MODBUS, PROFIBUS Field Bus
Voltage Optional	AC110–240V 380V 50/60Hz; DC12V, DC24V, Special Voltage Can be Customize
Protection Class	Ip65; Explosion Proof Construption Are Acailable: EX d II BT4

# **⊗** DKV-16

#### **Technical Parameters**

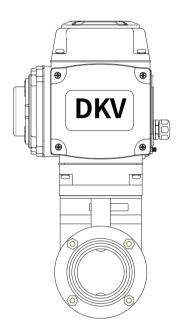
	Body	Valve components		
Nominal Size	DN15~DN100	Seat Material	PTFE: -30℃~180℃ PPL: -30℃~250℃	
Body Material	SS304, SS316, SS316L	Disc Material	SS304, SS316, SS316L	
Connection Type	Clamp, Welding	Stem Material	SS304,	
Pressure Rating	PN1.6MPa	Design Standard	ISO、DIN、IDF、SMS、3A	
Structure type	Midline Structure	Applicable Medium	Food, Medicine, Packaging Machinery, Filling Machinery And Other Health Conditions Using Level.	

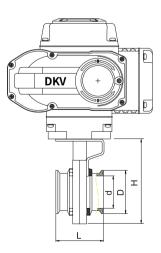
#### **Qutine Size drawing**

LIN	IT.	mm

	Body	Valve components		
Nominal Size	DN15~DN100	Seat Material	PTFE: -30°C ~180°C PPL: -30°C ~250°C	
Body Material	SS304, SS316, SS316L	Disc Material	SS304, SS316, SS316L	
Connection Type	Clamp, Welding	Stem Material	SS304,	
Pressure Rating	PN1.6MPa	Design Standard	ISO、DIN、IDF、SMS、3A	
Structure type	Midline Structure	Applicable Medium	Food, Medicine, Packaging Machinery, Filling Machinery And Other Health Conditions Using Level.	

- ${\bf 1.}\ Verify\ that\ the\ valve\ break away\ torque\ is\ less\ than\ the\ rated\ output\ torque\ of\ the\ actuator.$
- 2. Any mechanical stops that would interfere with the operation of the actuator must be removed before installation of the actuator, i.e. lever, travel stops, etc.
- 3. The actuator output coupling must be centered with the valve stem to prevent side loading, which causes premature stem packing wear.
- 4. To use the manual override feature (identified on cover label), the override shaft must be pressed down firmly at least 1/4" in order to disengage the motor from the gears. The manual override is not designed to overcome torque in excess of the rated torque of the actuator. Serious damage to the gear system may result from excessive turning force on the manual override.
- 5. This Series actuator may be mounted in any position, i.e. horizontal, upside down. If the conduit entrance points upward, conduit piping must be oriented as to prevent condensation from entering the actuator from the conduit pipe.







### Main Functions and Key Features

- 1.Body: body material is hard aluminum alloy, which is treated by hard anodic oxdization and coated by Polyester powder, so that it has great corro-sion resistance and protection classisIP67.
- 2.Motor: fully enclosed cage type motor is small in size and inertia, large in torque. Insulation class is F grade which can prevent motor over-heating;
- 3.Manual Override: small handle is reliable, energy-saving. It can be used for manual operation when electricity is off; In automatic operation. it can be fixed inside the clip for easy operation;
- 4.Indicator: indicator is assembled on center axis, valve position can be ob-served, Outside mirror design facilitates position observation and prevents water dropS accumulation;
- 5. Enclosure: high sealing performance, standard protection class is IP67;
- 6.Limit Switches: mechanical and electronic position limit switches. Mechani-ca stop lscrew can be adjustable; Electronic limit switches can be controlled by cam. Position can be set easily and accurately by simply adjusting the cam without any influence by handle;
- 7.Self Lock: accurate turbo-worm structure can output large torque with high efficiency and little noise(Max.50 decibel). Service life is quite long. Its self lock function can stop reverse rotation. Drive part is stable and reliable with-out additional lubrication;
- 8.Captive Bolt: bolts won't fall off when cover is disassembled:
- 9.Application: bottom connection complies with ISO5211/DIN3337 Standard. Star square hole is easy for square valve stem linear or 45° rotation applica-tion; Both vertical and horizontal assemble are available;

10.Diagram: control diagram complies with single phase or three phase wiring standard, reasonable wiring diagram and connection terminal can meet requirement of other optional functions.

Manual Override

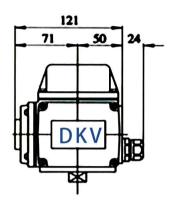
ON/OFF Type

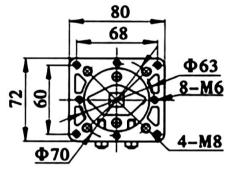
Regulation Type

Intelligent Type

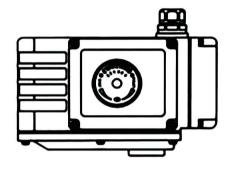




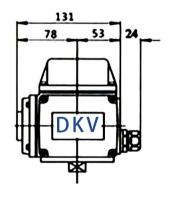


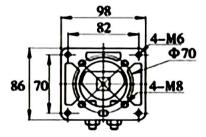


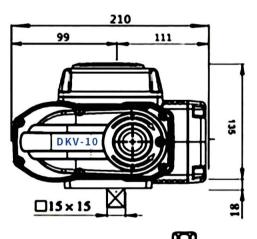
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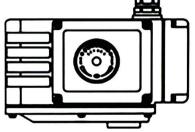


**DKV-10/16** 



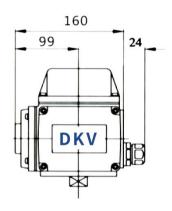


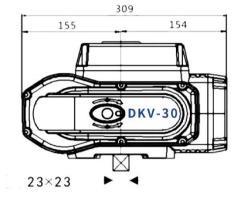


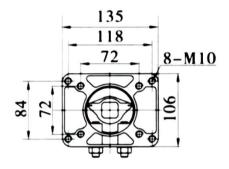




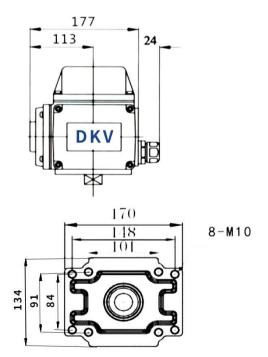
#### **DKV-30/60**

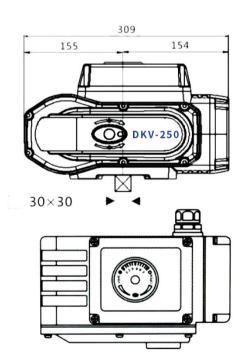






DKV-125/250/400





# **Technical parameters of electric** actuator

#### ON/OFF Type

Performance Model	05	10	16	30	60	125	250	400
Torque Output	50Nm	100Nm	160Nm	300Nm	600Nm	1250Nm	2500Nm	4000Nm
90° Cyle Time	20S/60S		15S/20S/60	)S	30S/60S	90\$	90S	90S
Angle of Rotation	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°
AV220V Drive Motor	0.23A	0.35A	0.40A	0.45A	0.60A	1.03A	1.85A	2.7A
Angle of Rotation	50W	75W	80W	100W	130W	210W	285W	360W
Product Weight	3KG	5KG	5.5KG	8KG	8.5KG	15KG	15.5KG	16KG
Voltage Options			AC110V	AC220V,AC	380V,DC24\	/,AC24V		
Insulation Resistance		DC2	24V:100MΩ,	/250V;AC11	0/220V/380	V:100MΩ/5	00V	
Withstand Voltage		DC24	V:500V;AC1	10/220V:15	00V;AC380\	V:1800V 1M	inute	
Protection class				IP	65			
Installation Angle				A	ny			
Elextrial Connection	(	61/2 Water-	proof Cable	e Connecto	rs, Electric	Power Wire	,Signal Wir	e
Ambient Temp				-30°C t	o +60°C			
Control Circuit	A: ON/OFF Type with Light Indicator Signal Feedback B: ONOFF Type with Passive Contact Signal Feedback C: ON/OFF Type with Resistance Potentiometer Signal Feedback D: ON/OFF Type with Resistance Potentiometer and Neutral Position Signal Feedback E: Regulation Type with Servo Control Module F:DC24V/ DC12V Direct ON/OFF Type Control Circuit G: AC380V Three-Phase Power Supply with Passive Signal Feedback H: AC380V Three-Phase Power Supply with Resistance Potentiometer Signal							
Optional Function	Over	Torque Pro	otectors, De	humidify H	eater, Stair	ıless Steel (	Coupling &	Yoke

Note: 1.The power and current of the above actuators are measured by standard AC220V, which will be biased due to voltage instability in actual use. Other AC/DC voltage power and current are converted by 10% according to this table. 2. Output Torque: torque deviation of 10%

# **Technical parameters of electric** actuator

#### **Regulation Type**

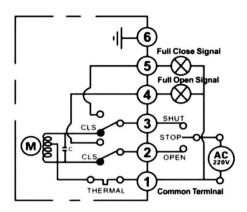
Model Performance	05	10	16	30	60	126	250	400	
Torque Output	50Nm	100Nm	160m	300Nm	600Nm	1250Nm	2500Nm	4000Nm	
90°CycleTime	20S	15S/30S	15S/30S	15S/30S	30S	100S	100S	100S	
Angle of Rotation	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	
Working Current	0.23A	0.35A	0.40A	0.45A	0.60A	1.03A	1.85A	2.7A	
Drive Motor	50W	75W	80W	100W	130W	210W	285W	360W	
Product Weight	3KG	3KG 5KG 5.5KG 8KG 8.5KG 15KG 15.5KG 1					16KG		
Voltage Options			AC1	10V,AC22	0V,AC380V	,DC24V,AC	24V		
Input Signal				4-20	mA 1-5V 0	)-10V			
Output Signal				4-20n	nA 1-5V 0	-10V			
Tolerance					±0.5%				
Return Difference					<0.3%				
Dead Zone		0.1% to 1.6%							
Damping Characteristics		0							
Mechanical Repeatability Error		0%							

#### Note:

90°Cycle Time: travel from closed position to open position or vice versa Duty Cycle for 24VAC will be approximately 20%

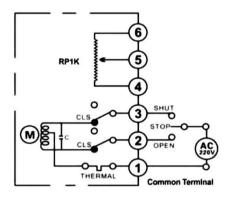
Note:1.The power and current of the above actuators are measured by standardAC220V,which willbe biased due to voltage instabiltyin actual use.OtherAC/DC voltage power and current are converted by 10% according to this table. 2. Output Torque: torque deviation of 10%





#### A: ON/OFF Type with Light Indicator Signal Feedback

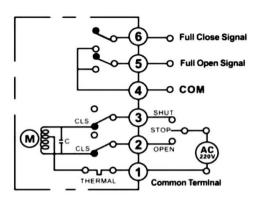
**Function**: Finish open or close operations by the circuit, and the actuator outputs a signal of active position (full opening, full closing)



#### C: ON/OFF Type with Resistance Potentiometer Signal Feedback

**Function:**Control the open angle of valves by circuit, and the actuator outputs the resistance signal corresponding to the position of switch

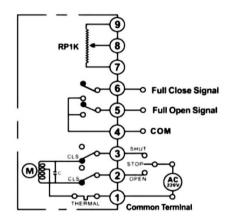
**Structure**: with  $500\Omega$  or  $1000\Omega$  potentiomete



#### B: ON/OFF Type with Passive Contact Signal Feedback

**Function:** Finish open or close operations by the circuit, and the actuator outputs a set signal of passive position (full opening, full closing)

Structure: with two neutral positions switches



## D: ON/OFF Type with Resistance Potentiometer and Neutral Position Signal Feedback

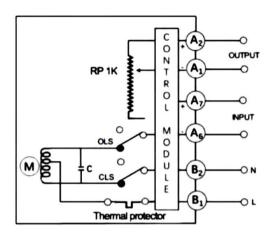
**Function:** control the open angle of valves by circuit, and the actuator outputs the resistance signal corresponding to the position of open position, at the same time, outputting a set signal of passive position

**Structure:** both potentiometer style and neutral positions switch style

#### Caution:

Can't connect one actuator parallel with other ones, in other words, can't use the same control -ler contact points to control two and above actuators, otherwise it will cost out of control, motor overheating, product damage and shorter service life.





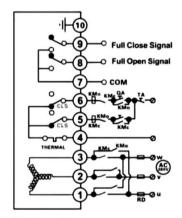
#### E: Regulation Type with Servo Control Module

Function: Modulating, input & output

DC4-20mA, 1-5VDC, 0-10VDC

Structure: With servo control module and

1000Ω potentiometer

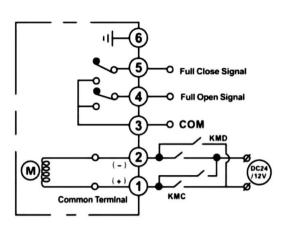


#### G: AC380V Three-Phase Power Supply with Passive Signal Feedback

**Function:** The external circuit make positive and negative conversion of DC power to open or close, and the actuator outputs a set signal of passive position (full opening, full closing)

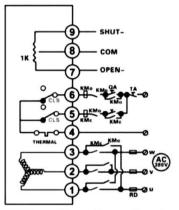
#### Notes:

Please kindly note if the switch position is correct when the three phase electric actuator is being adjusted, if it's opposite direction, then make 2 of power lines exchange each other



#### F: DC24V/ DC12V Direct ON-OFF Type

**Function:** The external circuit make positive and negative conversion of DC power to open or close, and the actuator outputs a set signal of passive position (full opening, full closing)



### H: AC380V Three-Phase Power Supply with Resistance Potentiometer Signal Feedback

**Function:** The external circuit make positive and negative conversion of DC power to open or close, and the actuator outputs a set signal of passive position (full opening, full closing)

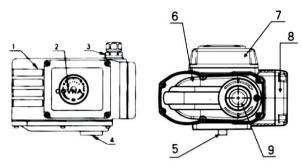
#### Notes:

Please kindly note if the switch position is correct when the three phase electric actuator is being adjusted, if it's opposite direction, then make 2 of power lines exchange each other

#### Caution:

Can't connect one actuator parallel with other ones, in other words, can't use the same control -ler contact points to control two and above actuators, otherwise it will cost out of control, motor overheating, product damage and shorter service life.





	Construction							
1	Shell	4	Rubber cap	7	Electric cover			
2	Position indicator	5	Output shaft	8	Terminal box			
3	Inlet wire lock	6	Gear box cover	9	Manual override			

The actuator are fully debugged before they go out, if they don't meet your demands because of the valve body, the coupling in actual installation. Please resume debugging according to following steps:

Assembly the actuator to the valve (refer to Installation)

Discharge the electric cover of actuator and debug as following steps according to the actual state of valve:

- ① Adjustment of limit position switch (refer to Commissioning);
- ② Adjustment of neural position switch (refer to Commissioning);
- ③ Adjustment of regulation type actuator (only for E style, refer to Commissioning of regulation type actuator);
- 4 Adjustment of mechanical limited location block (refer to Commissioning).

#### The manual test run

- ① Take off the rubber cap of manual handle hole; inset the hand shank into hole and rotate it clockwise decreased valve opening.
- ②Check whether the limit switch is running or not when the valve is full closing position (sensitive switch makingcrack sound when it is running), then turn the adjusting screw a half turn to check if the screw could touch the mechanical limited location block.
- ③ Turn hand shank anticlockwise to increase valve opening, check the situation of limit switch and mechanicallimit location block the same method, make trial turn to see whether they are all ight.

#### The electric test run

- 1) Take offterminal box, wiring correctly according to wiring diagram
- ② Separately turn on the power on clockwise and anticlockwise and see whether the actuator and the valve are working correctly.) The direction of shut point (clockwise) show close, the direction of open point (anticlockwise) show open.



#### 1. Installation environment

The product can be installed indoor and outdoor.

product is non-explosion-proof production, and the installation must be avoided being in flammable or explosive environment etc.

The actuator should be in protection box in the environment of long-term with the splash of rain, material and direct sunlight.

Please reserve space for controller, manual operation.

#### The surrounding environment temperature should be in -30°C~+60°CC

#### 2. Temperature of working medium

When matching with the valve, the actuator body's temperature will a bit rise if medium temperature happen heat transfer. If the temperature of medium is high, the bracket has the function of reducing heat conduction.

Please select the standard bracket if temperature of working medium below 60°C.

Please select the standard bracket when temperature of working medium above 60°C.

#### 3.Installed on the valve body (Figure 3)

Manually operate the actuator to drive the valve, confirm it does not

have abnormal situation. Turn the valve in full closed position.

Assemble the bracket to the valve body. • Set one end of couplings on valve spindle.

Turn the electric actuator to full closing position, and insert output-input shaft into the square holes of couplings.

Set the screw between the electric actuator and bracket.

Turn actuator by hand shank, confirm that it moves translation, no eccentric, no skew and no overrun.

#### 4. Cable installation

Install wire tubes as shown in Figure 4.

The outside diameter of wire tubes should beø9-ø11.

Take measures to proof water.

To prevent actuator from flowing into wire tubes water, the actuation position should higher than wire tubes position.

When installing wire, the outside diameter of wire should be 9-e11.

As figure 5, in case the water flow into actuator interior from line locking, all wire that are not allowed to be used.

The signal wire should be shielded wire in principle, don't parallel it to power wire.

#### 5.Special tips

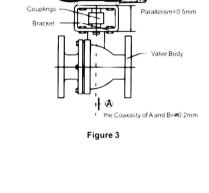
Caution: can't connect one actuator parallel with one another, in other words, can't use the same controller contact point to control more than one actuator, otherwise it will cause out of control, motor overheating, product damage, shorter service life.

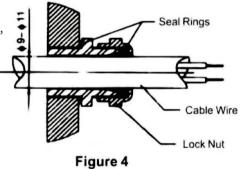
If the actuator is installed outdoor, we suggest equipping other protective cover to proof water, stabilize mechanical property, make a longer service life.

#### 6.Power voltage:220VAC 50Hz/60Hz

#### 7. Guard line options for witch of cutting-off winding

Ltem	Guard Line	Motor Power W/F
05	3A	10
10/16	5A	25,30
30/60	7A	40,90
125/250/400	10A	100,120,140





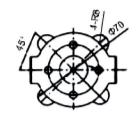
Cable Joint
Blanch
Joint
Plastic Pipe

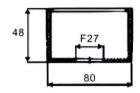
Figure 5

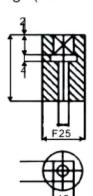




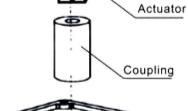
Z type bracket and couplings (match with 05)

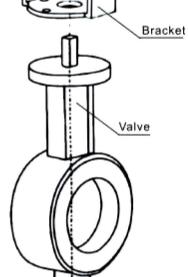




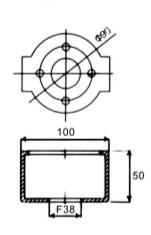


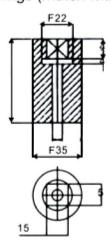
● S type bracket and couplings (match with 10/16)



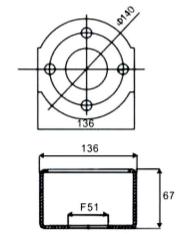


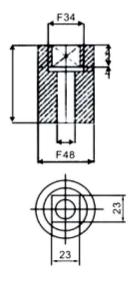
Assembly Drawing





M type bracket and couplings (match with 10/16)







#### **Commissioning**

#### 1.Adjustment of limit position switch (Figure 6)

Turn the valve to full opening position by hand. Loosen the screw of travel block and tun the block to drive the travel switch, then fine-tuning sensitive switch until hearing "click", after that, set screw.

The way of adjustment full opening position is the same as above.

#### 2.Adjustment of middle position switch (Figure 7)

Use hand shank to drive the valve to the position it need. Loosen the screw of travel block and tum the travel block, to drive sensitive switch, then set screw.

These two neutral position switches'position could be adjusted according to need.

#### 3.Adjustment of potentiometer (Figure 8)

Use hand shank to drive actuator to neutral position, and turn the pointer point to 50% scale line.



Separate potentiometer gear from the opening gear by suitable external force on potentiometer fixing plate.

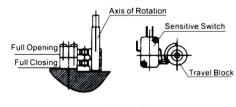
Put one probe of multimeter to one potentiometer terminal, the other probe to another terminal, then rotate potentiometer gear and see number in multimeter. When the resistance value is equivalent to R/2  $\pm 2\Omega$ , stop rotating, after that, mesh these two gears.

#### 4. Adjustment of mechanical limit location block(Figure 9)

Use hand shank to drive valve to full opening position and operate the switch (sensitive switch makes crack sound when it is running).

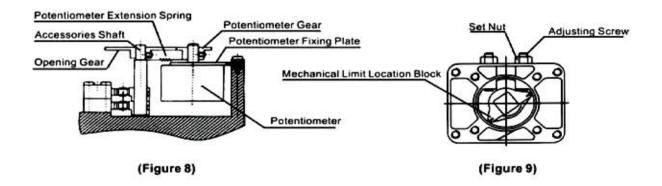
Loosen the nut and turn the adjusting screw to touch the mechanical limit location block, then turn the adjust -ing screw a half urn back, set nut.

Adjusting the full opening position by the same way as above.



(Figure 6)





#### 1. Function of electrical limit and mechanical limit

1) Electrical stroke limit function:

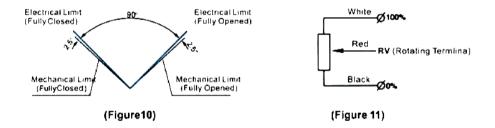
When the actuator reaches at fully opened/fully closed or the middle position, the bult-in electrical limit switch will ut off the circuit to protect the actuator.

②Mechanical limit function of output shaft:

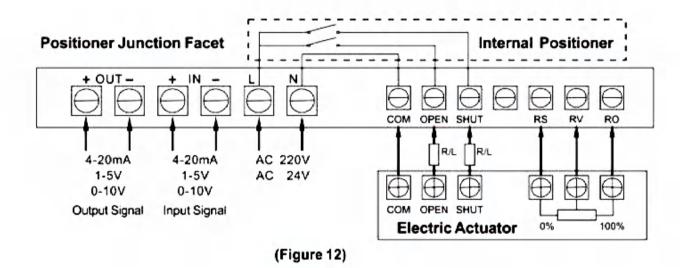
When electrical stroke limit function fails, output shaft Will be locked by mechanical lmit to protect the valve from damage.

Figure 10 shows the position relationship between electrical limit and mechanical limit.

- 2.Adjustment of actuator (Figure 10)
- ① Adjust the over-travel limit stopper to zero position and full position, and ensure electrical limit position angle is 90\*
- ② Adjust mechanical position limitation base on electrical limit position angle.
- 3. Connection of actuator with servo control module
- Potentiometer installation and connection (Figure 11)
- ①Finish potentiometer installation and connection according to "Commission" in previous chapter.
- ② Use multimeter to check resistance of potentiometer in middle opening position, and ensure it has homogeneous continuous variable from 0-100% opening.



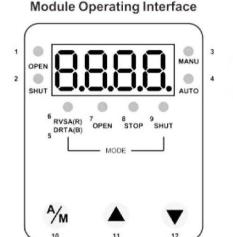
#### Electrical wiring of the servo control module(Figure 12)





# one stop supply





INC

			To
	1	OPEN	Output control "open"
Status indication	2	SHUT	Output control "shut"
	3	MANU	Manual control status
	4	AUTO	Auto control status
	5	DRTA	Operating by clockwise, the input signal is corresponding to 4mA-full position (usually we calibrate it to be full opening). 20mA-zero position (usually we set it to be full closing)
Mode	6	RVSA	Operating by anticlockwise, the input signal is corresponding to 4mA-full position (usually we set it to be full opening). 20mA-zero position (usually we calibrate it to be full closing)
indication	7	OPEN	Input opening signal to make the actuator open to maximum opening degree
	8	STOP	Input stopping signal to make the actuator stop running
	9	SHUT	Input shutting signal to make the actuator shut to minimum closing degree
	10	A/M	Automatic or manual mode toggle key, parameter change and toggle key
Button	11	•	Values increase button, it use for switching display to original set degree of opening, when it's in automatic mode, opening action when it's maual mode
	12	•	Values decrease button, it's use for switching display to the temperature of valve positioner shell when it's in automatic mode

#### 4. Zero Calibration

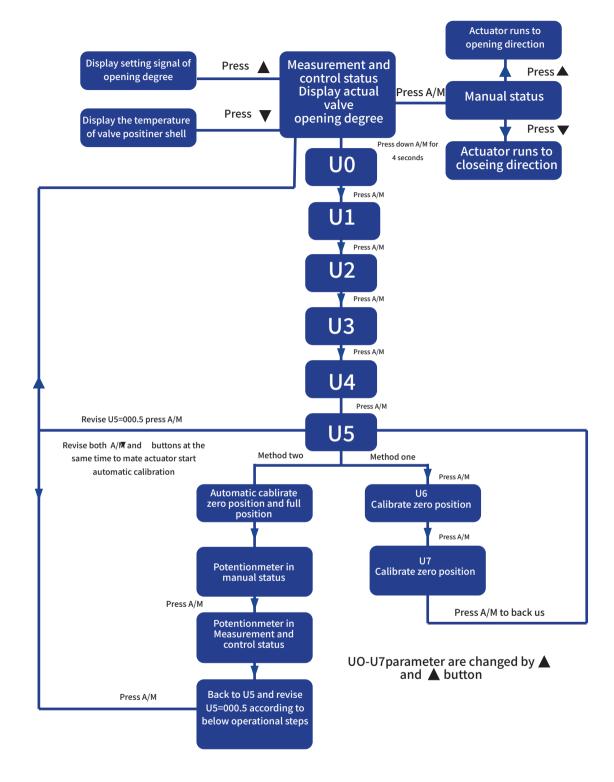
After wiring between valve positioner and actuator like Figure 12, the rotation angle has to be calibrated in the first match between positioner and actuator, after that the positioner could work correctly, the demarcation has no effect on input and output of valve positioner.

Method one:simple automatic calibration (this method request the actuator has electric limit position stopper and mechanical limit position stopper). In the automatic mode, press both AM and buttons at the same time, then release these two buttons at the same time, the actuator will start automatic calibration and confim the zero position (full closing) first. The valve runs to the small angle direction and reaches at minimal opening position which is judged as zero position (valve position 0.0). After that the actuator runs to maximum opening direction and reaches at maximum opening position which is judaed as full position (valve position 100.0). After judgment, the actuator returns to automatic calibration and saves results by

Method two: calibrate your need (this method request button idle time less than 8 seconds in the progress of calibration). In the automatic mode, pressAM button into uO parameter, pass u1, u2. u3. u4 and into u5, revise u5=003.1, finally press AM button.

- ①Enteru6, press 4 or button to make actuator to run to "open" or "shut" direction, meanwhile, the screen shows the situation of actual valve opening degree is increasing or decreasing. If the opening arrival at Zero position that it's your expected position (you can see it ifactuator is already assembled valve body, and the valve is set in full closing position in general), press AM button to confirmit, enter u7 parameter.
- ②In u7 parameter, press or W to run to your expected full position in the same way, and press AM to confirm fullposition (you can seeit If actuator is already assembled valve body, and the valve is setin full opening position in general), then back to u5.
- 3 Revise u-00.5 and back to measurement and control status.

#### **Operation flw chart**



NOTE: Each parameters of regulation type actuator have already been calibrated before leaving factory. Do not alter itunless it must. If really do, please read it carefully before commissioning.



#### 5. Error message and solution

Error Code	Meaning
E-01	For example, the signal of zero poston is calbrate to be 4mA, but the given current 3.0mA. The actuator will start signal interrupt handler and show E-01 in screen.
E-03	①Signal feedback lines of valve postioner and actuator are inversely connected ②Switch lines are inversely connect
E-05	The actuator has large osilation because of input signal or feedback signal unstable,too high precision, etc
E-06	The actuator isnt able to open direction
E-07	The actuator isnt able to run to shut directio
E-08	The Internal temperature of positioner is higher than 80°C

#### **Maintenance**

No extra oil equired because the molybdenum grease we put are with long servicelife andhigh withstand voitage.
 Please take periodical inspection to the actuator if you dontuse it frequently.

#### **Troubleshooting**

Fault phenomenon	Possible reasan	Solution	
Motordoes not starl	Lacking of power spply	Connect the actuator to power supply	
	Electric wire broken, wiring terminals loose	Repar the wire.tighten wiring terminals	
	Supply votage is wrong or below level	Check the voltage is correct or wrong	
	Dveheat protector activated (ambient tempera- ture is too high,the valve is	Reduce ambient temperature,manually openVclose the valve to see if it is working	
	Limit switch disuncton	Replace the limit switch	
	Capacitance doesn't start or running	Replace the capacitance	
Opening & closing Indicatorlight doent light	Indicatorlight is broken	Replace the indicator light	
	Limit switch disfunction	Replace the limit switch	
	Adjusting ofblock disfunction	Readjustment	
Opening degree changing con- stanty	Signal source has interference signal	Check input signal	
	Voltage divider generated interference	Replace the potentiometer	
	Voltge divider gear or opening gear loose	Tightening up the screws ofgear	



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