

CZSND



**TO BECOME THE WORLD'S LEADING
SUPPLIER OF FLUID CONTROL SYSTEMS.**

**Changzhou RayBuilt Automation
Equipment Co., Ltd.**

CORPORATE PROFILE >>>

Our company is located in Changzhou City, Jiangsu Province. We are a modern industrial automation enterprise specializing in the R&D, design, production, and sales of electric actuators.

With years of dedication to the electric actuator industry, we excel in the independent design and customized production of electric actuator controllers. We have mastered core technologies, including controller R&D, circuit design, programming algorithms, and overall unit matching, which fundamentally guarantee the control accuracy, operational stability, and compatibility of our electric actuators.

Backed by solid R&D capabilities and rigorous manufacturing processes, we supply both standard and customized electric actuators, alongside tailored control solutions for diverse industries. Our products are widely applied in industrial automation sectors such as nuclear power, petroleum, chemical engineering, power generation, water treatment, HVAC, and metallurgy.

Adhering to the business philosophy of 'technology-oriented, quality first, and customer-centric', we continuously upgrade our products based on our core controller technologies. Through reliable quality and comprehensive services, we have earned the trust and long-term partnership of our clients. We strive to be a leading and highly reputable supplier of electric actuators and control solutions.

Changzhou RayBuilt Automation Equipment Co., Ltd.

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Scan the QR code for consultation



SND_Z &SND_ZTD Series Intelligent Multi-Turn Electric Actuator



Basic Information:

SND_Z switch Type:

Torque : 50_1200N.m

speed : 12_192 rpm

SND_ZTD RegulatingType:

Torque: 50_900N.m

speed:18, 24 rpm

SND and SND_QTJ Series Intelligent Part-Turn Electric Actuator

Basic Information:

SND_Q switch type:

Torque: 125_4000N.m

speed: 0.6_5rpm

SND_QTJ Regulating Type:

Torque: 125_3000N.m

speed: 0.6,1 rpm



Features

These series integrate absolute encoder technology, sensor technology, bus control, infrared remote control, LCD displays, magnetic switches, data recording, and other advanced automatic control and manufacturing technologies. They feature a high protection level and a wide temperature range, providing multiple protection functions and signal outputs.

Superimposed Multi-Turn Reducer

SND_Z series electric actuator superimposed multi_turn reducer, combined into a large torque multi_turn electric actuator, torque up to 60000N.m.



Superimposed Part-Turn Reducer



SND_Z series electric actuator superimposed part-Turn reducer, the torque can reach up to 400000N.m, SND_ZTD series electric actuator superimposed partial slewing reducer, the torque can reach up to 80000N.m.

Workshop



SND_ZE Intelligent Multi-Turn Electric Actuator



Basic Information:

SND_ZE/K switch type:

Torque: 50-2500N.m
speed: 18,24,36 rpm

SND_ZE/T Regulating Type:

Torque: 50-1600N.m
speed: 12,18,24 rpm

SND_QF Intelligent Part-Turn Electric Actuator

Basic Information:

SND_QF/K switch type:

Torque: 125-3000N.m
speed: 0.6, 1 rpm

SND_QF/T Regulation Type:

Torque: 125-2000N.m
speed: 1 rpm



Features

The series has a high protection level and a wide temperature range. It adopts electronic stroke sensor and torque sensor, which can provide multiple protection functions and multiple signal outputs. The product takes into account both performance and cost, and can be widely used in various types of automation control.

Class 1E K1 Nuclear-Grade Electric Actuator

General parameters:

1. Temperature: -20~70°C
2. pressure: 0~0.6Mpa
3. Absorbed dose of ionizing radiation: 1.9×10^6 Gy
4. Earthquake acceleration in X, Y, Z directions: 6g
5. Emergency environment (LOCA): 185°C, 0.56Mpa
6. service life: 40 years (60 years)

Nuclear Grade Multi-Turn Electric Actuator

Basic Information:

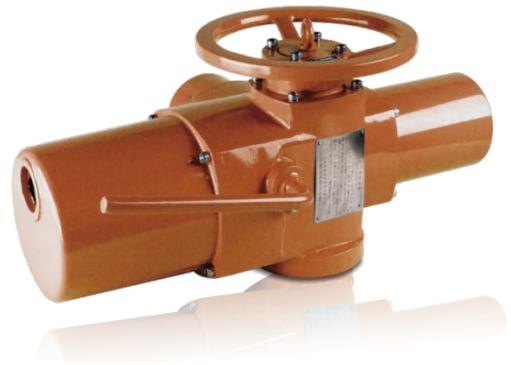
Torque: 25-10000N .m

power supply: AC 380V 3pH

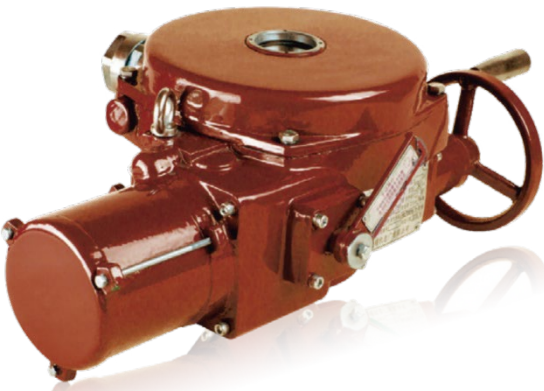
DC 220V, 250V

Rotation speed: 12~48 r/min

High speed type: 72~192r/min



Nuclear Grade Part-Turn Electric Actuator



Basic Information:

Torque: 125~3200N

power supply: AC 380V 3pH

DC 220V, 250V

Rotation speed: 1~3r/min

Wafer Butterfly Valve



Features:

The wafer butterfly valve features a compact structure, lightweight design, and easy disassembly and installation. It offers low flow resistance with quick opening and closing capabilities. Available with optional soft and hard seals, it is ideal for shut-off and throttling in low-pressure pipelines of various calibers.

Basic Information:

Nominal Diameter: DN50–1200

Nominal Pressure: PN1.0~2.5 MPa

Materials:
Body: Carbon Steel, Stainless Steel

Seat: Metal Seal, PTFE

Stem: Stainless Steel

Medium Temperature:

Carbon Steel Body: $\leq 425^{\circ}\text{C}$

Stainless Steel Body: $\leq 200^{\circ}\text{C}$

Applicable Media: Water, Steam, Oil Products, Nitric Acid Series

Basic Information:

Nominal Diameter:
DN50–800

Nominal Pressure: PN1.0~1.6 MPa

Materials:
Valve Body: Ductile Iron
Disc: Stainless Steel, Ductile Iron
Seat: EPDM, NBR, HNBR
Stem: 2Cr13 Stainless Steel

Medium Temperature:
 $-30^{\circ}\text{C} \sim 150^{\circ}\text{C}$

Applicable Media: Fresh water, seawater, sewage, natural gas, oil, steam, air, etc.

Triple Eccentric Butterfly Valve



Features:

This valve adopts a triple eccentric structure. Its metal hard seal delivers excellent resistance to high temperatures, high pressure, abrasion, and corrosion. It features reliable sealing with minimal operational torque, making it suitable for shut-off and throttling in pipelines conveying high-temperature, high-pressure, and highly corrosive industrial media.

Resilient Seated Gate Valve



Basic Information:

Nominal Diameter:
DN 40–1200
Nominal Pressure: PN1.0~2.5 MPa

Materials:
Valve Body: Ductile Iron
Stem: Stainless Steel
Gate Seal: EPDM Rubber
Sealing Ring: NBR Rubber

Medium Temperature:
0°C ~ 65°C (Standard Version)
0°C ~ 100°C (Hot Water Version)

Applicable Medium: Fresh water and substances with chemical properties similar to water

Features:

The resilient seated gate valve with solid wedge adopts an integrated gate fully covered by rubber as its main sealing component. Under operating force and water pressure, the gate undergoes slight adaptive elastic deformation, creating an excellent sealing fit with the precision-cast valve seat. It eliminates common issues of ordinary gate valves such as poor sealing, water leakage and rusting.

Cast Steel Gate Valve

Basic Information:

Nominal Diameter:
DN15–DN800

Nominal Pressure:
PN1.0 ~ PN2.5 MPa

Materials:
Valve Body: Carbon Steel, Stainless Steel
Disc: Stainless Steel
Seat: Stainless Steel or Carbon Steel with Hard Alloy Surfacing
Stem: Stainless Steel

Medium Temperature:
Carbon Steel Body: $\leq 425^{\circ}\text{C}$
Stainless Steel Body: $\leq 200^{\circ}\text{C}$

Applicable Media: Water, steam, oil products, nitric acid media



Features:

The cast steel gate valve is entirely made of cast steel with a wide operating temperature range. Its metal seal offers good corrosion resistance, making it suitable for cut-off service in pipelines conveying high-temperature, high-pressure oil, gas, steam and strong acid media.

Flanged Ball Valve



Features:

The flanged ball valve ensures stable installation. It features minimal flow resistance, rapid opening and closing, reliable sealing, and excellent temperature and corrosion resistance. It is suitable for the cut-off and throttling of various pipelines.

Basic Information:

Nominal Diameter:
DN15-300

Nominal Pressure: PN1.0~2.5MPa

Materials:
Body: WCB / ZG1Cr18Ni9Ti / ZG0Cr18Ni12Mo2Ti
Ball: 2Cr13 / 1Cr18Ni9Ti / 0Cr18Ni12Mo2Ti
Stem: 2Cr13 / 1Cr18Ni9Ti / 0Cr18Ni12Mo2Ti
Seat Seal: Reinforced PTFE
Packing: PTFE

Medium Temperature: -20°C ~ 150°C

Applicable Media: Water, Steam, Oil Products, Nitric Acid Solutions, Acetic Acid Solutions

Basic Information:

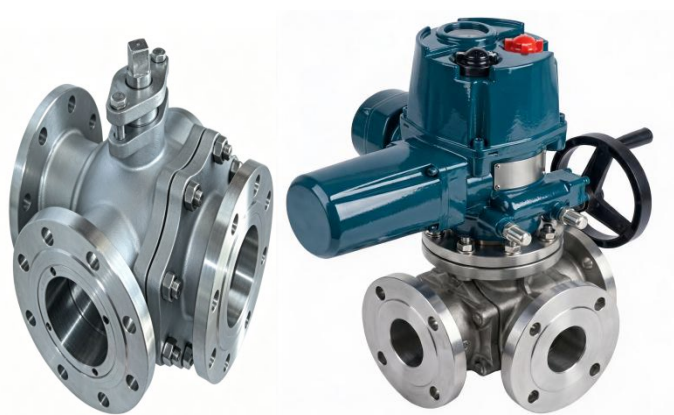
Nominal Diameter:
DN15-200

Nominal Pressure: PN1.0~2.5MPa

Materials:
Body: WCB / ZG1Cr18Ni9Ti / ZG0Cr18Ni12Mo2Ti
Ball: 2Cr13 / 1Cr18Ni9Ti / 0Cr18Ni12Mo2Ti
Stem: 2Cr13 / 1Cr18Ni9Ti / 0Cr18Ni12Mo2Ti
Seat Seal: Reinforced PTFE
Packing: PTFE

Medium Temperature: -20°C ~ 150°C
Applicable Media: Water, Steam, Oil Products, Nitric Acid Solutions, Acetic Acid Solutions

Three-way Ball Valve



Features:

The three-way ball valve facilitates media diversion, convergence, and flow direction switching. It offers low flow resistance, flexible operation, and reliable sealing. It is highly suitable for fluid flow reversal and distribution control within multi-pipeline process systems.

Swing Check Valve



Features:

The swing check valve delivers smooth flow passage with low pressure loss. It blocks reverse flow unidirectionally through the swing of the disc, features temperature and corrosion resistance, and is suitable for backflow prevention in medium and large-diameter pipelines.

Basic Information:

Nominal Diameter: DN50-350

Nominal Pressure: PN1.0~2.5MPa

Materials:

Body: WCB / 1Cr18Ni9Ti

Guide Sleeve: 1Cr13, 2Cr13 / 1Cr18Ni9

Seat Sealing Face: D507 / 1Cr18Ni9Ti

Disc Sealing Face: D507Mo / 1Cr18Ni9Ti

Medium Temperature:

≤425°C

Applicable Media: Water, Steam, Oil Products

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Lift Check Valve

Basic Information:

Nominal Diameter: DN25-200

Nominal Pressure: PN1.0~2.5MPa

Materials:

Body: WCB / 1Cr18Ni9Ti

Guide Sleeve: 1Cr13, 2Cr13 / 1Cr18Ni9

Seat Sealing Face: D507 / 1Cr18Ni9Ti

Disc Sealing Face: D507Mo / 1Cr18Ni9Ti

Medium Temperature: ≤425°C

Applicable Media: Water, Steam, Oil Products



Features:

The lift check valve features precise structure and tight sealing. It opens and closes automatically by medium pressure, with an extremely wide temperature range and outstanding corrosion resistance. It can effectively prevent medium backflow and is applicable for unidirectional cut-off of various industrial pipelines.



ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ

ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ЕАЭС RU.CN.AX88.B.0661524
Серия RU № 1063467

Данный сертификат соответствия подтверждает соответствие требованиям взрывобезопасности ТР ТС 012/2011 и не распространяет любые другие виды безопасности при эксплуатации электроприводов SND-ZE и SND-QF.

3. **Взрывозащищенные электроприводы SND-ZE (3,5, 5, 6, 7,5, 8, 10, 15, 20, 25, 30, 45, 60, 80, 120, 150, 200, 250, 300) соответствуют требованиям:**
ТР ТС 012/2011 Технический регламент Таможенного союза «О безопасности оборудования, работающего под переменным током»;
ГОСТ 31616-2014 Взрывозащищенные электроприводы с частотным регулированием частоты вращения;
ГОСТ IEC 60974-2011 Взрывозащищенные электроприводы с частотным регулированием частоты вращения;
ГОСТ 32407-2013 Взрывозащищенные электроприводы с частотным регулированием частоты вращения;
ГОСТ IEC 60979-30 Взрывозащищенные электроприводы с частотным регулированием частоты вращения;
ГОСТ 30303-2013 Взрывозащищенные электроприводы с частотным регулированием частоты вращения.

4. **Мероприятия, выполняемые на электроприводах SND-ZE и SND-QF, должны включать следующие данные:**
- знак или выемочные прорези-выступы;
- выемочные и триггерные;
- специальный знак взрывобезопасности и маркировки, соответствующий согласно таблице 2.1;
- наличие температурной маркировки;
- выемочные органы по сертификации, соответствующие требованиям стандарта;
и другие данные, требуемые нормативными актами, документацией, которые изготовитель должен указать в маркировке.

5. **Перечень ограничений**
Знак «Х» в маркировке электроприводов указывает на специальные условия безопасного применения:
- маркировка взрывозащищенных электроприводов выполняется в соответствии с требованиями к взрывозащищенным изделиям;
- при монтаже электроприводов SND-ZE и SND-QF при температуре окружающей среды выше 60°C, следует использовать специальную кабельную трассу для предотвращения нагрева или сгорания изоляции кабелей;
- установка электроприводов в взрывоопасных помещениях - А2-Г0.

Руководитель (уполномоченное лицо) органа по сертификации
Эксперт (эксперт-куратор)
(подпись (эксперта/куратора))

Руководитель (уполномоченное лицо) органа по сертификации
Эксперт (эксперт-куратор)
(подпись (эксперта/куратора))

ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ

ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ЕАЭС RU.CN.A107.B.0557223
Серия RU № 0873348

Внесенный изготовителем в эксплуатацию и промышленно изготовленный, выданный на взрывобезопасность и соответствие требованиям взрывобезопасности ТР ТС 012/2011, изделие (далее по тексту «СОО») имеет следующие характеристики «ИДЕЕС».

Данный сертификат соответствия подтверждает соответствие требованиям взрывобезопасности ТР ТС 012/2011 и не распространяет любые другие виды безопасности при эксплуатации электроприводов.

3. **Электроприводы соответствуют требованиям:**
ТР ТС 012/2011 Технический регламент Таможенного союза «О безопасности оборудования, работающего под переменным током»;
ГОСТ 31616-2014 Взрывозащищенные электроприводы с частотным регулированием частоты вращения;
ГОСТ IEC 60974-2011 Взрывозащищенные электроприводы с частотным регулированием частоты вращения;
ГОСТ IEC 60979-30 Взрывозащищенные электроприводы с частотным регулированием частоты вращения;
ГОСТ 32407-2013 Взрывозащищенные электроприводы с частотным регулированием частоты вращения;
ГОСТ IEC 60979-30 Взрывозащищенные электроприводы с частотным регулированием частоты вращения.

4. **Мероприятия, выполняемые на оборудовании, должны включать следующие данные:**
4.1. Выемочные прорези-выступы и выемочные органы по сертификации;
4.2. Обозначение типа оборудования;
4.3. Горючие смеси оборудования по стандарту взрывозащиты;
4.4. Маркировку взрывозащиты;
4.5. Выемочные органы по сертификации;
4.6. Промышленные знаки;
4.7. Единый знак «Х» в маркировке;
4.8. Специальный знак взрывобезопасности и маркировки ТР ТС 012/2011;
4.9. Другие данные, требуемые нормативными актами, документацией, которые изготовитель должен указать в маркировке.

5. **Перечень ограничений**
Знак «Х» в маркировке электроприводов указывает на специальные условия безопасного применения:
- маркировка взрывозащищенных электроприводов выполняется в соответствии с требованиями к взрывозащищенным изделиям;
- при монтаже электроприводов SND-ZE и SND-QF при температуре окружающей среды выше 60°C, следует использовать специальную кабельную трассу для предотвращения нагрева или сгорания изоляции кабелей;
- установка электроприводов в взрывоопасных помещениях - А2-Г0.

Руководитель (уполномоченное лицо) органа по сертификации
Эксперт (эксперт-куратор)
(подпись (эксперта/куратора))

Руководитель (уполномоченное лицо) органа по сертификации
Эксперт (эксперт-куратор)
(подпись (эксперта/куратора))

CERTIFICATE
No. Z1GCN 124211 0003 Rev. 01

Holder of Certificate: Changzhou Power Station Auxiliary Equipment Co., Ltd.
No. 8, Fengge Road
Wujin High-tech Industrial Development Zone
213184 Changzhou City
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:

Product: Actuators
SND-QF Series Valve Electric Actuator

Evaluated according to: IEC 61508-1:2010
IEC 61508-2:2010

Certification Rule: GCM_CCB_GR_030CS
Certification Type: Design Assessment + Inspection + Factory inspection + Surveillance

It is certified that the product meets the requirements of certification rule and relevant normative documents. The certification marks shown above can be affixed on the product. It is not permitted to alter the certification marks in any way. In addition, the certificate holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuv.sud.com/cert

Report no.: 7482459770-003
Valid until: 2027-02-04

Date: 2024-05-31

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CERTIFICATE
No. Z1GCN 124211 0002 Rev. 01

Holder of Certificate: Changzhou Power Station Auxiliary Equipment Co., Ltd.
No. 8, Fengge Road
Wujin High-tech Industrial Development Zone
213184 Changzhou City
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:

Product: Actuators
SND-ZE/SND-ZE+DQ Series Valve Electric Actuator

Evaluated according to: IEC 61508-1:2010
IEC 61508-2:2010

Certification Rule: GCM_CCB_GR_030CS
Certification Type: Design Assessment + Inspection + Factory inspection + Surveillance

It is certified that the product meets the requirements of certification rule and relevant normative documents. The certification marks shown above can be affixed on the product. It is not permitted to alter the certification marks in any way. In addition, the certificate holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuv.sud.com/cert

Report no.: 7482459770-002
Valid until: 2027-02-04

Date: 2024-05-31

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CERTIFICATE
No. Z1GCN 124211 0001 Rev. 01

Holder of Certificate: Changzhou Power Station Auxiliary Equipment Co., Ltd.
No. 8, Fengge Road
Wujin High-tech Industrial Development Zone
213184 Changzhou City
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:

Product: Actuators
SND-ZE/SND-ZE+DQ Series Valve Electric Actuator

Evaluated according to: IEC 61508-1:2010
IEC 61508-2:2010

Certification Rule: GCM_CCB_GR_030CS
Certification Type: Design Assessment + Inspection + Factory inspection + Surveillance

It is certified that the product meets the requirements of certification rule and relevant normative documents. The certification marks shown above can be affixed on the product. It is not permitted to alter the certification marks in any way. In addition, the certificate holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuv.sud.com/cert

Report no.: 7482459770-001
Valid until: 2027-01-08

Date: 2024-05-31

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