

D942X 电动双偏心蝶阀系列

D942X Electric Double Eccentric Butterfly Valve Series

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用  
说  
明  
书

Instruction Manual



开维喜阀门集团有限公司  
Kaiweixi Valve Group Co., LTD.

## D942X 电动双偏心蝶阀

### D942X Electric Double Eccentric Butterfly Valve

型号: D942X                      规格: DN50-DN3000  
公称压力: PN6~PN16            适用介质: 水、油品、蒸汽  
适用温度:  $\leq 80^{\circ}\text{C}$             阀体材质: 球墨铸铁、不锈钢  
连接方式: 法兰                    驱动方式: 电动  
Model: D942X

Specifications: DN50 - DN3000

Nominal Pressure: PN6 - PN16

Applicable Media: Water, oil, steam

Applicable Temperature:  $\leq 80^{\circ}\text{C}$

Valve Body Materials: Ductile iron, stainless steel

Connection Type: Flanged

Actuation Mode: Electric

#### 概述

D942X 电动双偏心蝶阀是一种采用双偏心结构设计的管路控制设备，其阀杆轴线同时偏离蝶板密封面中心线和管道中心线，形成独特的双偏心轨迹，使蝶板开启时能迅速脱离阀座密封面，显著减少密封副之间的摩擦磨损，降低操作扭矩并延长阀门使用寿命；阀门采用对夹式连接，通过双头螺栓夹持于两片管道法兰之间，结构紧凑、安装便捷，蝶板密封圈采用丁腈橡胶、乙丙橡胶等弹性材料形成软密封副，配合电动执行机构驱动阀杆旋转  $90^{\circ}$  即可实现精确的流量调节与快速启闭，广泛应用于水处理、暖通空调及化工等行业的给排水与腐蚀性介质管道系统。

#### Overview

The D942X Electric Double Eccentric Butterfly Valve is a pipeline control device featuring a double eccentric structure design. Its stem axis deviates from both the centerline of the disc sealing surface and the centerline of the pipeline, forming a unique double eccentric trajectory. This allows the disc to quickly disengage from the valve seat sealing surface upon opening, significantly reducing frictional wear between the sealing pair, lowering operating torque, and extending the valve's service life. The valve utilizes a wafer-type connection, clamped between two pipeline flanges using stud bolts, offering a compact structure and convenient installation. The disc sealing ring employs elastic materials such as NBR (Nitrile Butadiene Rubber) or EPDM (Ethylene Propylene Diene Monomer) to form a soft sealing pair. Driven by an electric actuator rotating the shaft  $90^{\circ}$ , the valve achieves precise flow regulation and rapid opening/closing. It is widely used in water supply, drainage, HVAC (Heating, Ventilation, and Air Conditioning), and pipeline systems handling corrosive media in industries like chemical engineering.



D942X 电动双偏心蝶阀产品图

Product Image of D942X Electric Double Eccentric Butterfly Valve

## 特点

- 1、双偏心结构，磨损小寿命长：采用双偏心设计，阀杆轴线同时偏离蝶板密封面中心线和管道中心线，使蝶板开启瞬间即脱离阀座密封面，消除不必要的挤压和摩擦，显著降低操作扭矩，大幅延长阀门使用寿命。
- 2、启闭迅速，操作扭矩小：蝶板旋转 90° 即可实现全开或全关，配合电动执行机构可实现快速启闭控制；由于双偏心结构的扭矩减小效应，所需操作力矩小，可选用更小功率的执行器，降低配套成本。
- 3、流体阻力小：蝶板设计为流线型，当阀门全开时，蝶板与介质流向平行，流体通道近似直通管，介质流动顺畅，压力损失极小，节能效果显著。
- 4、密封性能优良：采用软密封副结构，蝶板密封圈采用丁腈橡胶、乙丙橡胶或氟橡胶等优质弹性材料，与不锈钢或合金钢阀座形成可靠的密封副，可实现双向零泄漏密封，满足中低压工况的严密性要求。
- 5、结构紧凑，安装维护方便：采用对夹式连接设计，结构长度短，体积小，重量轻，特别适用于空间受限的安装场合；阀门零部件设计标准化程度高，拆卸更换密封件等维护操作简单便捷。
- 6、适用工况广泛：阀体可采用铸铁、球墨铸铁、碳钢、不锈钢等多种材质，密封圈材料可根据介质特性选择不同配方橡胶，配合电动执行机构的远程自动控制功能，可广泛应用于水处理、暖通空调、给排水、轻工、化工等行业的液体、气体及粉状介质的管路系统。

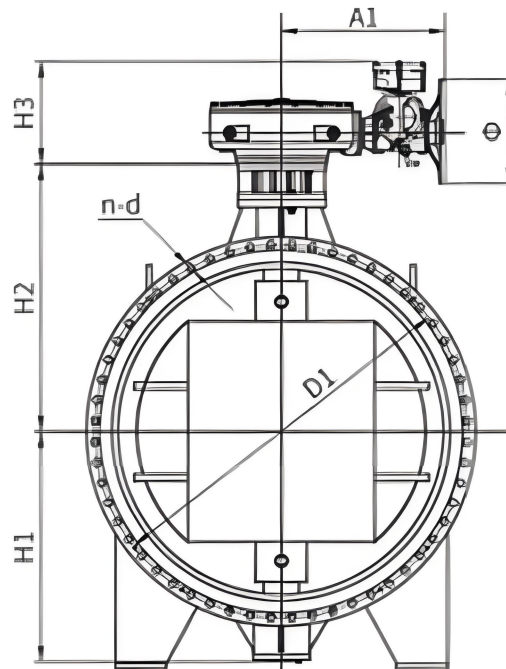
## Features

- 1、Double Eccentric Structure, Low Wear and Long Life: Featuring a double eccentric design, the stem axis deviates from both the centerline of the disc sealing surface and the centerline of the pipeline. This allows the disc to instantly disengage from the valve seat sealing surface upon opening, eliminating unnecessary 挤压 and friction. It significantly reduces operating torque and greatly extends the valve's service life.
- 2、Quick Opening/Closing, Low Operating Torque: The valve achieves full opening or closing with a 90° rotation of the disc. When paired with an electric actuator, rapid open/close control is achieved. Due to the torque-reducing effect of the double eccentric structure, the required operating force is low, allowing for the selection of smaller, more cost-effective actuators.
- 3、Low Fluid Resistance: The disc features a streamlined design. When the valve is fully open, the disc aligns parallel to the flow direction of the medium. The flow path is nearly straight-through, ensuring smooth fluid flow with minimal pressure loss, resulting in significant energy savings.
- 4、Excellent Sealing Performance: Utilizing a soft seal pair structure, the disc sealing ring

is made of high-quality elastic materials such as NBR, EPDM, or Viton. This forms a reliable seal against a stainless steel or alloy steel seat, achieving bidirectional zero-leakage sealing and meeting the tight shut-off requirements for low to medium pressure conditions.

5、Compact Structure, Easy Installation and Maintenance: The wafer-type connection design results in a short face-to-face dimension, small volume, and light weight, making it particularly suitable for installations in confined spaces. The valve components feature a high degree of standardization, simplifying maintenance operations such as disassembling and replacing seals.

6、Wide Applicability: The valve body can be manufactured from various materials including cast iron, ductile iron, carbon steel, and stainless steel. The seal ring material can be selected from different rubber compounds based on the medium's characteristics. Combined with the remote automatic control function of the electric actuator, it is widely used in pipeline systems handling liquids, gases, and powdery media across industries such as water treatment, HVAC, water supply/drainage, light industry, and chemical engineering.



D942X 电动双偏心蝶阀结构图

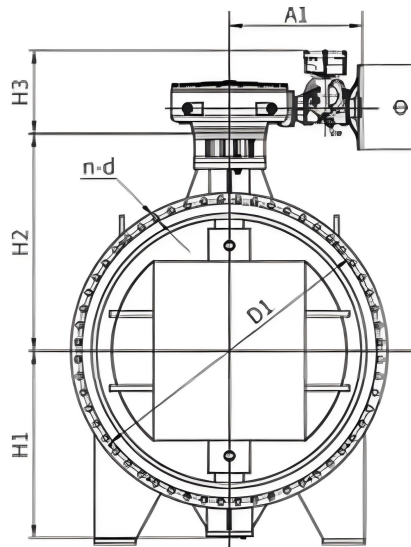
Structure Diagram of D942X Electric Double Eccentric Butterfly Valve

零部件名称材料表 Part Name

|           |                                           |
|-----------|-------------------------------------------|
| 阀体 body   | 球墨铸铁、不锈钢<br>Ductile iron, stainless steel |
| 蝶板 disc   | 球墨铸铁、不锈钢 Ductile Iron, Stainless Steel    |
| 密封阀座 seat | 三元乙丙橡胶 EPDM                               |
| 阀杆 stem   | 不锈钢 Stainless Steel                       |

性能规范表 Performance Specification Table

| 性能规范表 Performance Specification Table |               |     |
|---------------------------------------|---------------|-----|
| 公称压力 Nominal pressure                 | 0.6/1.0/1.6   | MPa |
| 强度试验压力 Strength Test Pressure         | 0.9/1.5/2.4   |     |
| 密封试验压力 Seal Test Pressure             | 0.66/1.1/1.76 |     |
| 适用温度 Applicable Temperature           | ≤80           | ℃   |



D942X 电动双偏心蝶阀外形尺寸图  
D942X Electric Double Eccentric Butterfly Valve

D942X 电动双偏心蝶阀外形尺寸表

D942X Electric Double Eccentric Butterfly Valve Overall Dimension Table

| DN    |      | L        |          | H1  | H2  | PN6 |     |    |       | PN10 |     |      |       | PN16 |     |      |       |
|-------|------|----------|----------|-----|-----|-----|-----|----|-------|------|-----|------|-------|------|-----|------|-------|
| Inch  | DNmm | Series13 | Series14 |     |     | D   | K   | b  | n-Φd  | D    | K   | b    | n-Φd  | D    | K   | b    | n-Φd  |
| 2     | 50   | 108      | 150      | 83  | 306 | 140 | 110 | 16 | 4-14  | 165  | 125 | 19   | 4-19  | 165  | 125 | 19   | 4-19  |
| 2-1/2 | 65   | 112      | 170      | 93  | 321 | 160 | 130 | 16 | 4-14  | 185  | 145 | 19   | 4-19  | 185  | 145 | 19   | 4-19  |
| 3     | 80   | 114      | 180      | 100 | 346 | 190 | 150 | 18 | 4-19  | 200  | 160 | 19   | 8-19  | 200  | 160 | 19   | 4-19  |
| 4     | 100  | 127      | 190      | 110 | 387 | 210 | 170 | 18 | 4-19  | 220  | 180 | 19   | 8-19  | 220  | 180 | 19   | 8-19  |
| 5     | 125  | 140      | 200      | 125 | 411 | 240 | 200 | 20 | 8-19  | 250  | 210 | 19   | 8-19  | 250  | 210 | 19   | 8-19  |
| 6     | 150  | 140      | 210      | 143 | 447 | 265 | 225 | 20 | 8-19  | 285  | 240 | 19   | 8-23  | 285  | 240 | 19   | 8-23  |
| 8     | 200  | 152      | 230      | 170 | 607 | 320 | 280 | 22 | 8-19  | 340  | 295 | 20   | 8-23  | 340  | 295 | 20   | 12-23 |
| 10    | 250  | 165      | 250      | 193 | 688 | 375 | 335 | 24 | 12-19 | 395  | 350 | 22   | 12-23 | 405  | 355 | 22   | 12-28 |
| 12    | 300  | 178      | 270      | 223 | 742 | 440 | 395 | 24 | 12-23 | 445  | 400 | 24.5 | 12-23 | 460  | 410 | 24.5 | 12-28 |
| 14    | 350  | 190      | 290      | 253 | 797 | 490 | 445 | 26 | 12-23 | 505  | 460 | 24.5 | 16-23 | 520  | 470 | 26.5 | 16-28 |
| 16    | 400  | 216      | 310      | 283 | 930 | 540 | 495 | 28 | 16-23 | 565  | 515 | 24.5 | 16-28 | 580  | 525 | 28   | 16-31 |
| 18    | 450  | 222      | 330      | 308 | 975 | 595 | 550 | 28 | 16-23 | 615  | 565 | 25.5 | 20-28 | 640  | 585 | 30   | 20-31 |

|     |      |      |      |      |      |      |      |    |       |      |      |      |       |      |      |      |       |
|-----|------|------|------|------|------|------|------|----|-------|------|------|------|-------|------|------|------|-------|
| 20  | 500  | 229  | 350  | 335  | 1065 | 645  | 600  | 30 | 20-23 | 670  | 620  | 26.5 | 20-28 | 715  | 650  | 31.5 | 20-34 |
| 24  | 600  | 267  | 390  | 390  | 1225 | 755  | 705  | 30 | 20-26 | 780  | 725  | 30   | 20-31 | 840  | 770  | 36   | 20-37 |
| 28  | 700  | 292  | 430  | 448  | 1343 | 860  | 810  | 32 | 24-26 | 895  | 840  | 32.5 | 24-31 | 910  | 840  | 39.5 | 24-37 |
| 32  | 800  | 318  | 470  | 508  | 1463 | 975  | 920  | 34 | 24-31 | 1015 | 950  | 35   | 24-34 | 1025 | 950  | 43   | 24-40 |
| 36  | 900  | 330  | 510  | 558  | 1616 | 1075 | 1020 | 36 | 24-31 | 1115 | 1050 | 37.5 | 28-34 | 1125 | 1050 | 46.5 | 28-40 |
| 40  | 1000 | 410  | 550  | 615  | 1711 | 1175 | 1120 | 36 | 28-31 | 1230 | 1160 | 40   | 28-37 | 1255 | 1170 | 50   | 28-43 |
| 48  | 1200 | 470  | 630  | 728  | 1971 | 1405 | 1340 | 40 | 32-34 | 1455 | 1380 | 45   | 32-40 | 1485 | 1390 | 57   | 32-49 |
| 56  | 1400 | 530  | 710  | 838  | 2218 | 1630 | 1560 | 44 | 36-37 | 1675 | 1590 | 46   | 36-43 | 1685 | 1590 | 60   | 36-49 |
| 64  | 1600 | 600  | 790  | 958  | 2578 | 1830 | 1760 | 48 | 40-37 | 1915 | 1820 | 49   | 40-49 | 1930 | 1820 | 65   | 40-56 |
| 72  | 1800 | 670  | 870  | 1058 | 2689 | 2045 | 1970 | 50 | 44-40 | 2115 | 2020 | 52   | 44-49 | 2130 | 2020 | 70   | 44-56 |
| 80  | 2000 | 760  | 950  | 1163 | 3022 | 2265 | 2180 | 54 | 48-43 | 2325 | 2230 | 55   | 48-49 | 2345 | 2230 | 75   | 48-62 |
| 88  | 2200 | 800  | 1000 | 1163 | 3022 | 2265 | 2180 | 54 | 48-43 | 2325 | 2230 | 55   | 48-49 | 2345 | 2230 | 75   | 48-62 |
| 96  | 2400 | 850  | 1100 | 1163 | 3022 | 2265 | 2180 | 54 | 48-43 | 2325 | 2230 | 55   | 48-49 | 2345 | 2230 | 75   | 48-62 |
| 104 | 2600 | 900  | 1200 | 1163 | 3022 | 2265 | 2180 | 54 | 48-43 | 2325 | 2230 | 55   | 48-49 | 2345 | 2230 | 75   | 48-62 |
| 112 | 2800 | 950  | 1300 | 1163 | 3022 | 2265 | 2180 | 54 | 48-43 | 2325 | 2230 | 55   | 48-49 | 2345 | 2230 | 75   | 48-62 |
| 120 | 3000 | 1000 | 1400 | 1163 | 3022 | 2265 | 2180 | 54 | 48-43 | 2325 | 2230 | 55   | 48-49 | 2345 | 2230 | 75   | 48-62 |

## D942X 电动双偏心蝶阀安装与维护须知

### 一、 安装说明

#### 安装前检查：

核对阀门型号、口径、压力等级、密封面材料及电源电压是否与管路设计要求一致。

检查阀门外观，确认运输过程中阀体、法兰密封面及双偏心蝶板无损伤。清除阀腔内及蝶板密封面上的杂物和灰尘。

手动操作蜗轮机构或直接转动阀杆方榫，确认蝶板启闭灵活、无卡阻，尤其注意双偏心结构在开启初期有无异常刮擦。安装前建议将蝶板调整至全闭状态，便于插入管道法兰间隙。

#### 安装位置与方向：

阀门可安装于水平或垂直管道上，安装位置应便于电动执行器的操作、观察及接线维护。

注意阀体上的介质流向箭头。虽然双偏心蝶阀可实现双向密封，但通常仍建议按箭头方向安装以获得最佳密封性能。

#### 管道对接要求：

阀门采用对夹式连接，需使用标准管道法兰夹持安装。严禁通过强行紧固法兰螺栓来消除管道法兰间的错位、张口或过大间隙，此举会导致阀体变形、卡死蝶板，破坏双偏心结构的精密配合。

安装时，将阀门置于两片法兰之间，插入对穿螺栓。采用对角、分步、均匀的方式拧紧螺母，确保阀体受力均匀。

### 电动执行机构安装与调试：

电动执行器应在阀门管道安装就位后再行安装。确保执行器输出轴与阀杆连接牢固、对中良好。

手动操作将蝶板调整至全关位置，再安装执行器。

接通电源前，必须依据执行器说明书进行行程和力矩的调试设定。先设定关闭位置（确保蝶板压紧阀座但不超载），再设定全开位置，并反复测试确认开关动作准确、无卡阻。

## 二、使用与操作说明

### 开启与关闭：

首次使用或维修后启用，建议在低压或无介质状态下，使用电动执行器缓慢进行数次全开全关操作，使橡胶密封圈与阀座更好地磨合。

正常操作时，应通过控制信号平稳启闭，避免频繁点动或冲击。手动操作（如有手轮）时，到达全开或全关位置后请勿继续强行旋转。

### 开度调节：

本阀门可用于流量调节，通过控制蝶板旋转角度（通常建议在 15° -75° 范围内调节）可实现良好的流量控制特性。

若长期处于部分开启的调节状态，建议每季度进行一次全行程开关操作，以防止介质在密封面局部沉积或结垢，确保紧急时能关严。

### 注意事项：

对于橡胶密封的 D942X 阀门，严禁长期处于超过密封圈耐受温度的高温工况，以免橡胶老化失效。常规丁腈橡胶适用于 0~80℃，乙丙橡胶适用于 -20~120℃，氟橡胶适用于 -20~200℃。

用于热水或温差变化较大工况时，冷态安装并首次通入热介质后，需对法兰螺栓进行热态再紧固，防止因热膨胀差异引起法兰连接处泄漏。

如介质中含有固体颗粒，应在阀门上游安装过滤器，以免颗粒嵌入橡胶密封圈导致密封面损坏。

#### 日常维护:

定期检查阀门外部的法兰连接处及阀杆密封处有无泄漏。

保持阀杆及传动部件清洁，并按需对阀杆、蜗轮蜗杆机构等加注适量润滑脂。

检查电动执行器运行声音及发热情况是否正常，接线盒防水密封是否良好。

#### 定期检查:

根据使用频率与工况条件，建议每 6-12 个月进行一次全面检查。

检查内容包括：打开阀门，观察蝶板橡胶密封圈有无磨损、划伤、老化裂纹或永久变形；检查阀杆转动是否灵活，法兰螺栓是否松动；检查电动执行器限位开关及力矩保护功能是否可靠。

#### 存放要求:

阀门长期存放时，应将蝶板处于微开状态（约  $10^{\circ}$  - $15^{\circ}$ ），以避免橡胶密封圈长期受压产生永久变形或粘连。装好两端法兰保护盖。

存放于干燥、通风、阴凉的室内环境中，避免阳光直射及油污、酸碱等腐蚀性气氛，防止橡胶老化。

#### 故障与处理:

阀门关不严/泄漏量大： 检查蝶板是否关到位（可能需重新调整执行器关闭限位）；检查橡胶密封面是否嵌入异物或严重磨损；检查介质温度是否超出橡胶耐受范围导致变形。

操作扭矩过大/卡阻： 检查蝶板与阀体间是否有异物卡住；检查阀杆与轴承部位是否因缺乏润滑或进入污物而卡滞；检查橡胶密封圈是否因溶胀、高温粘连或低温硬化导致摩擦力剧增。

阀杆处泄漏： 适当拧紧填料压盖螺栓；若仍泄漏，需更换 O 型圈或填料密封件。

电动执行器故障： 检查电源及控制线路；检查过载保护是否跳脱；联系专业人员检查电机或控制模块。

#### 重要提示:

本说明为通用性技术指导，适用于常规水、油品、气体及弱腐蚀性介质工况。橡胶密封圈材料的耐温耐蚀性能有明确上限，严禁超温超压使用。若用于饮用水、食品医药、强腐蚀或防爆场合，必须严格遵循相关行业规范及制造商的专项技术协议进行操作与维护。非专业人员请勿擅自拆解阀门及电动执行机构。

### D942X Electric Double Eccentric Butterfly Valve Installation and Maintenance Instructions

#### I. Installation Instructions

##### Pre-Installation Inspection:

Verify that the valve model, nominal diameter, pressure rating, sealing surface material, and power supply voltage match the pipeline design requirements.

Inspect the valve exterior to ensure no damage occurred to the body, flange sealing surfaces, or double eccentric disc during transport. Remove any debris and dust from the valve interior and disc sealing surfaces.

Manually operate the worm gear mechanism or rotate the valve stem square to confirm the disc opens and closes smoothly without binding. Pay special attention for any abnormal scraping during the initial opening phase characteristic of the double eccentric design. It is recommended to set the disc to the fully closed position before installation to facilitate insertion into the pipeline flange gap.

### **Installation Position and Orientation:**

The valve can be installed in horizontal or vertical pipelines. The installation location should facilitate electric actuator operation, visual inspection, and wiring maintenance.

Observe the medium flow direction arrow on the valve body. Although double eccentric butterfly valves can achieve bidirectional sealing, it is generally recommended to install according to the arrow direction for optimal sealing performance.

### **Pipeline Connection Requirements:**

This valve uses a wafer-type connection and must be installed clamped between standard pipeline flanges. Do not use excessive force when tightening flange bolts to correct misalignment, gaps, or excessive spacing between pipeline flanges, as this can cause valve body deformation, disc binding, and damage the precision fit of the double eccentric structure.

During installation, position the valve between the two flanges and insert the through bolts. Tighten the nuts evenly in a diagonal, step-by-step pattern to ensure uniform stress on the valve body.

### **Electric Actuator Installation and Commissioning:**

The electric actuator should be installed after the valve is mounted in the pipeline. Ensure the actuator output shaft is securely connected and properly aligned with the valve stem.

Manually operate to position the disc to the fully closed position before installing the actuator.

Before connecting power, adjust the stroke and torque settings according to the actuator manual. First, set the closed position (ensuring the disc presses against the seat without over-torquing), then set the fully open position. Test repeatedly to confirm accurate open/close action without

## II. Operation Instructions

### Opening and Closing:

For initial use or after maintenance, it is recommended to perform several slow full-stroke operations using the electric actuator under low or no pressure conditions to allow the rubber seal ring to better seat against the valve seat.

During normal operation, open and close smoothly using control signals, avoiding frequent inching or impacts. When operating manually (if a handwheel is provided), do not continue forcing rotation once the fully open or fully closed position is reached.

### Opening Adjustment:

This valve can be used for flow regulation. Good flow control characteristics are achieved by controlling the disc rotation angle (typically recommended within the 15° to 75° range).

If the valve operates in a partially open regulating state for extended periods, quarterly full-stroke operation is recommended to prevent localized media deposition or scaling on the sealing surfaces, ensuring tight shut-off capability when needed.

### Precautions:

For D942X valves with rubber seals, do not operate continuously at temperatures exceeding the seal material's rating to prevent rubber aging and failure. Typical ranges: NBR (0~80° C), EPDM (-20~120° C), Viton (-20~200° C).

For hot water service or applications with significant temperature variations, after cold installation and initial introduction of hot media, re-tighten the flange bolts while hot to compensate for thermal expansion differences and prevent leaks at the flange connection.

If the medium contains solid particles, install a strainer upstream of the valve to prevent particles from embedding in the rubber seal ring and causing damage.

## III. Maintenance Instructions

### Routine Maintenance:

Regularly inspect the valve exterior, flange connections, and stem seal area for leaks.

Keep the valve stem and transmission components clean. Apply appropriate lubricant to the stem, worm gear mechanism, etc., as needed.

Monitor the electric actuator for unusual operating sounds, abnormal heating, and ensure the junction box waterproof seal is intact.

### **Periodic Inspection:**

Depending on service frequency and operating conditions, a comprehensive inspection is recommended every 6-12 months.

Inspection items include: Open the valve and inspect the disc rubber seal ring for wear, scratches, aging cracks, or permanent deformation; Check for smooth stem rotation and tightness of flange bolts; Verify the reliability of the electric actuator's limit switches and torque protection function.

### **Storage Requirements:**

For long-term storage, the disc should be left slightly open (approx.  $10^{\circ}$  - $15^{\circ}$ ) to prevent permanent deformation or sticking of the rubber seal ring due to prolonged compression. Install protective covers on both flange ends.

Store in a dry, well-ventilated, cool indoor environment, away from direct sunlight, oil, acids, alkalis, and other corrosive agents to prevent rubber aging.

### **Troubleshooting:**

**Valve Fails to Close / Excessive Leakage:** Check if the disc reaches the fully closed position (may require readjusting the actuator closing limit); Check for foreign objects embedded in the rubber sealing surface or severe wear; Check if the medium temperature exceeds the rubber's tolerance range, causing deformation.

**Excessive Operating Torque / Binding:** Check for foreign objects trapped between the disc and body; Check if the stem and bearings are sticking due to lack of lubrication or contamination; Check if the rubber seal ring friction has increased drastically due to swelling, high-temperature adhesion, or low-temperature hardening.

**Leakage at Stem:** Tighten the packing gland bolts appropriately; If leakage persists, replace the O-rings or packing seals.

**Electric Actuator Malfunction:** Check power supply and control circuits; Check if overload protection has tripped; Contact qualified personnel to inspect the motor or control module.

### **Important Note:**

These instructions provide general technical guidance applicable to standard conditions involving water, oil, gases, and mildly corrosive media. Rubber seal ring materials have defined temperature and chemical resistance limits; do not exceed rated temperature and pressure. For applications

involving potable water, food/pharmaceuticals, strong corrosives, or explosion-proof requirements, operation and maintenance must strictly comply with relevant industry standards and the manufacturer's specific technical agreements. Do not disassemble the valve or electric actuator without proper authorization.

非常感谢您的阅读！

Thank you very much for reading!

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