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1 阀杆保护套管

避免阀杆受到外部异物喷射
Stem protective tube
Stem protection against external splashes

2 位置指示器

显示刀闸阀位置 (与限位开关一同安装使用
或仅安装位置指示器)
Position indicator
Indication of knife gate valve position (mounting only
with limit switches or optionally)

3 一体式阀体

坚固抗变形, 防止泄漏
One piece body
Resistance to distortion, rigidity. Prevents leakage

4 闸板锋利

经过机加工并抛光处理
Sharp knife
Machined and polished

5 密封圈对阀座无损坏

模压成型橡胶密封圈
Gasket seat wrenching not possible
Molded rubber gasket and heel shaped

6 预制支板 (DN ≤ 300)

坚固、轻便。为环氧漆涂层钢或不锈钢,
预留限位开关、电磁阀和安全保护装置
安装孔 (CE 标识)
Pre-shapped parts (DN ≤ 300)
Rigid and light. Steel epoxy coated or stainless steel.
Drilled for limit switches equipment, solenoid valve,
security protection (CE marking)

7 螺栓固定填料压块

可在工作状态下调整
Bolted packing gland
Adjustable on duty

8 防腐蚀涂层

环氧烤漆涂层
Anti-corrosion coating
Oven backed epoxy

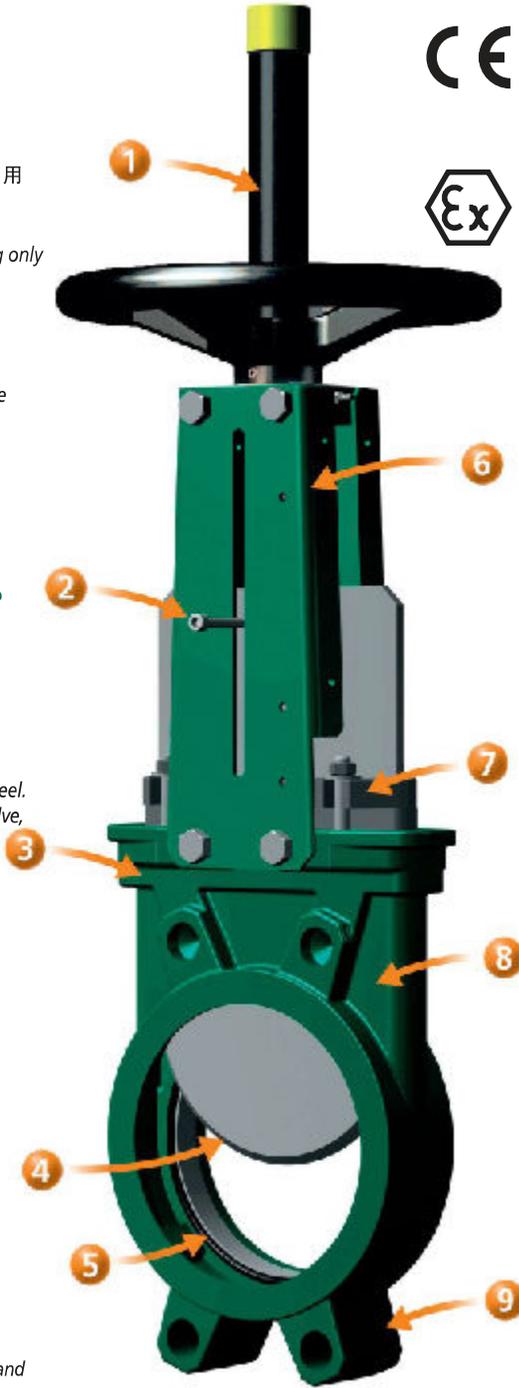
9 固定螺纹支耳

管端安装
DN 300 及以下口径阀门为一体式支耳
Fixing threaded lugs
Bottom line installation.
One piece for valves DN ≤ 300

可订做: GEKO 刀闸阀。
符合及高于 TAPPI TIS 405-08, MSS SP-81-2006,
MSS SP-61-2003。
On request: GEKO knife gate valve built to meet
and exceed the TAPPI TIS 405-08, MSS SP-81-2006 and
MSS SP-61-2003 standards.

主要应用 / Main Uses

- 水、水处理及废水行业 / Water, water treatment, wastewater
- 污水和废水处理厂 / Sewage and Wastewater treatment plant
- 电梯站 / Lifting station
- 河水 / River water
- 纸浆生产 / Pulp production
- 化工行业: 粉体、颗粒、结晶和沉淀产品
Chemical industry: powdery, granular, crystallizing and sludge products
- 粉体行业、气力输送、仓储、水泥工程
Pulverized products, pneumatic transport, stocking, cement work
- 食品行业: 酿酒、制糖厂 / Food industry: wine-producing, sugar plant
- 矿业、钢铁业 / Mine, siderurgy



符合欧盟《压力设备》
指令 N° 97/23/CE:
第 III 类流体 H 系列
In accordance with European directive
«Pressure equipments» N°97/23/CE :
category III module H



符合欧盟《用于潜在性爆炸环境设备》
ATEX 指令 N° 97/23/CE:
ATEX II 2 GD c et ATEX II 3 GD c
In accordance with European directive
«Potentially explosive atmospheres» N°94/9/CE:
ATEX 2 GD c et ATEX II 3 GD c

**密封性能
TIGHTNESS**



标配 STANDARD
橡胶密封
Rubber gasket
tightness



金属硬密封
Metal/metal
tightness



阀座加强套
Reinforced seat
support ring

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材质对照表

Material chart



阀体 / Body

铸铁 / Cast iron EN-GJL-250	GG25
球墨铸铁 / Ductile iron EN-GJS-400-15	GGG40
不锈钢 / Stainless steel GX5CrNi 19-10	AISI 304
不锈钢 / Stainless steel X6CrNi 25-20 *	AISI 310
不锈钢 / Stainless steel GX5CrNiMo 19-11-2	AISI 316
铸钢 / Cast steel GP240GH	ASTM A216WCA

* 根据实际应用确认细微差别。 / Nuance to be confirmed according to application.



闸板 / Gate

不锈钢 / Stainless steel X5CrNi 18-10	AISI 304
不锈钢 / Stainless steel X8CrNi 25-21	AISI 310
不锈钢 / Stainless steel X5CrNiMo 17-12-2	AISI 316



阀座和O形圈 / Seat and O-ring

丁腈 / Nitril
白色丁腈 / White nitril
乙丙胶 / EPDM
FPM (Viton® 型)
白色 FPM (Viton® 型) / White FPM (type Viton®)
硅胶 / Silicone
白色硅胶 / White silicone
CSM (Hypalon® 型)
聚四氟乙烯 / PTFE



填料 / Packing

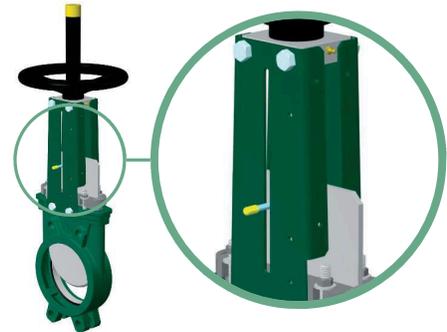
棉浸动物油 / Tallowed cotton
特氟龙丙烯酸酯 / Tefloned acrylic
纯聚四氟乙烯 / pure PTFE
石墨 / Graphite
超高温材料 / Very high temperature

应用于特殊环境或磨损性环境：
- 将填料成角表面部分用芳纶加固
- 将填料内部填充橡胶以避免永久变形。
其它特殊应用，请向我们咨询。

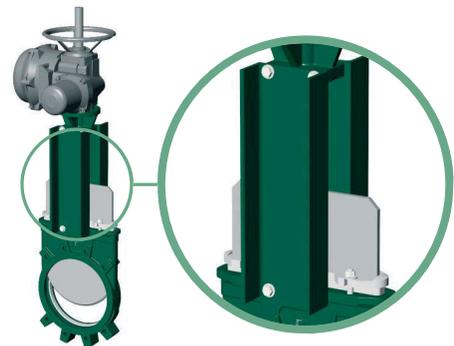
For special or abrasive application:
- packing with aramid reinforced on the angled surfaces,
- packing with rubber inside to avoid permanent deformation.
Please consult us for special application.

标准结构材质 / Standard construction

Type	GKV3400-GKVS3400 GKVT3400	GKV6400-GKVS6400 GKVT6400
阀体 / Body	铸铁 EN-GJL-250 Cast iron EN-GJL-250	不锈钢 GX5CrNiMo 19-11-2 GX5CrNiMo 19-11-2 stainless steel
闸板 / Gate	不锈钢 X5CrNi 18-10 X5CrNi 18-10 stainless steel	不锈钢 X5CrNiMo 17-12-2 X5CrNiMo 17-12-2 stainless steel
阀座 / Seat	丁腈 / Nitril	乙丙胶 / EPDM
填料 Packing	聚四氟乙烯 / PTFE	聚四氟乙烯 / PTFE



侧面型钢
Sectional shaped steel
口径DN ≤ 300



标准 U 型结构
Standard shaped U section
DN ≥ 350

刀闸阀型号编制方法

Knife gate valves codification

注意！ 如选型与此样本参照不一致，请向我们咨询。

Caution ! Consult us for any selections different from references in the catalogue.

GKV 3 4 0 0 00 MM

系列 Type

- GKV 刀闸阀
Knife gate valve
- GKVT 穿通式刀闸阀
Through conduit knife gate valve
- GKVS 放料刀闸阀
Under silo special knife gate valve
- GKVC 方形平板阀
Square slide gate valve
- GKVM 水闸门
Penstock

阀体材质 / Body material

- 3 铸铁 / Cast iron
- 4 球墨铸铁 / Ductile iron
- 5 钢 / Steel
- 6 不锈钢 / Stainless steel

公称压力 Nominal pressure

- 0 10 bar
- 4 16 bar - 150 lbs
- 5 25 bar
- 6 40 bar - 300 lbs
- 7 Autres / Other

连接方式 / Ends

- 2 法兰连接 / Flanged
- 4 对夹连接 / Between flanges
- 5 其它 / Other
- 6 螺纹连接 / Threaded lugs

序列号 Serial number

- 0 标准系列 / Standard type

控制系统 / Operating system

- 00 手轮 / Handwheel
- 001 暗杆手轮
Handwheel non rising stem
- 01 链轮 / Chainwheel
- 02 手柄 / Lever
- 03 双作用气动头
Double acting pneumatic actuator
- 031 双作用气动头 + 手动紧急装置
Double acting pneumatic actuator + manual emergency operating
- 电动头 / Electric actuator
- B04 BERNARD 400V / 50Hz Tri IP67
- B14 BERNARD 230V / 50Hz Tri IP67
- B24 BERNARD 230V / 50Hz Mono IP67
- B34 BERNARD 24V / Mono IP67
- U04 AUMA 400V / 50Hz Tri IP67
- U14 AUMA 230V / 50Hz Tri IP67
- U24 AUMA 230V Mono IP67
- U34 AUMA 24V Mono IP67
- 05 方头操作 / Square
- 051 暗杆方头操作
Square operating non rising stem
- 06 其它 / Other
- 07 单作用气动头
Single acting pneumatic actuator
- 08 蜗动头 / Gear box actuator
- 09 液压缸 / Hydraulic actuator

阀座材质 Seat material

- MM Siège métal / Metal seat
- EP EPDM
- EPB EPDM blanc / White EPDM
- NI Nitrile / Nitril
- NIB Nitrile blanc / White nitril
- PTF PTFE
- VI FPM (type Viton®)
- VIB FPM (type Viton®) blanc / White FPM (type Viton®)
- HY CSM (type Hypalon®)
- SI Silicone
- SIB Silicone blanc / White silicone

注意！ 如选型与此样本参照不一致，请向我们咨询。

Caution ! Consult us for any selections different from references in the catalogue.

标准系列刀闸阀

■ 工作原理

- GEKO 刀闸阀由狭长阀体和阀体内滑动阀板构成。无论在关闭或开启状态，阀板上部始终伸出阀体外。阀板末端成倒角非常锋利，表面的抛光处理加强阀板穿透性。阀门关到底时，阀板被压附在连接处确保阀座密封性能。填料压块确保阀门内部密封。
- GEKO 刀闸阀技术特别适用于一些复杂的使用环境，如粘稠性或是粉状产品。
- 传统闸阀会有大滞留区，因此粘稠性或粉状介质会阻碍阀板关闭。而 GEKO 刀闸阀阀板上部始终伸出阀体，边缘锋利有切割功能，可以顺利开启和关闭。

■ 应用范围

- 纸浆生产。
- 水、水处理及污水行业。
- 化工业：粉末或结晶产品。
- 酿酒业：葡萄酒生产。
- 粉体行业：水泥、气力输送及仓储。

■ 产品类型

- GKV 标准系列 / GKV type standard.

■ 性能特点

- 开启关断或调节功能。
- 对夹螺纹安装。
- 单向密封，阀体上标有方向箭头。
- 滞留区小：闸板在阀体内受牵引，与阀体间隙小。
- 填料压块：填料和O形圈（材质与阀座接头相同）保证上法兰密封性能并减小操作扭矩。
- 压力损失小。
- 可使用导向板来调节粘稠介质流量。

■ 标准结构材料 (详见第3页材料表)

- EN-GJL-250 球墨铸铁阀体 / X5CrNi 18-10 不锈钢阀板。
- GX5CrNiMo 19-11-2 不锈钢阀体 / X5CrNiMo 17-12-2 不锈钢阀板。

■ 保护涂层

- DN 600 及以下口径为 RAL 6005 环氧烤漆涂层。
- DN 600 以上口径为液态环氧涂层。

■ 阀座密封圈 (详见第3页材料表)

- 铸铁阀体为丁腈密封。
- 不锈钢阀体为乙丙胶密封。
- 硬密封：对应材质。
- 白色丁腈、白色乙丙胶、硅胶、氟橡胶、氯磺化聚乙烯等。
- L 型密封圈用不锈钢环套固定于阀体内，稳固性强，不会脱落。

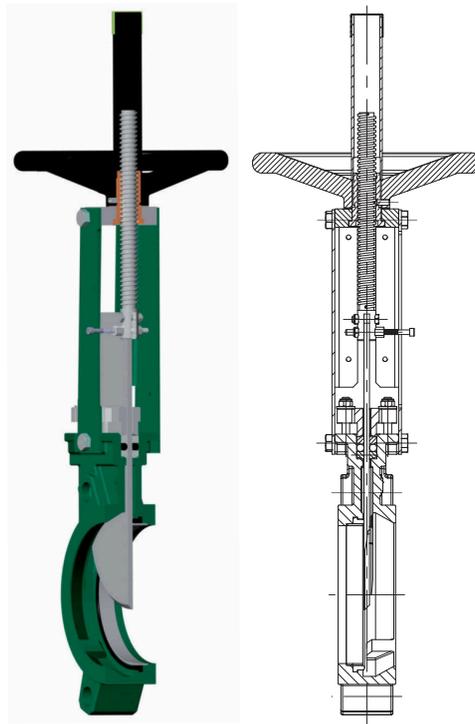
■ 填料

- 铸铁或不锈钢结构为聚四氟乙烯。
- 根据具体情况，高温环境可用聚四氟乙烯、石墨等填料。
- 铸铁阀体选用丁腈O形圈，不锈钢阀体选用乙丙胶。

■ 预制支板 (直至 DN 300)

- 环氧树脂涂层钢板 (也可选不锈钢板)。
- 预留限位开关等检测元件和电磁阀固定孔。
- 可安装保护罩。

Standard knife gate valve



■ PRINCIPLE OF FUNCTIONING

- GEKO knife gate valve is constituted by a gate which slides in a narrow body. The upper part of the gate, in closed or opened position, stands out from the body. The gate is sharp thanks to a chamfer of extremity. The polishing of faces facilitates the penetration of the gate in the product. At the end of valve closing, the gate is stuck to the joint to assure the seat tightness. The gland packing guarantees the internal tightness of the valve.
- This technology of GEKO knife gate valve is particularly adapted for difficult using conditions such as thick or powdery products.
- Traditional gate valves contain important retention zones. Also thick or powdery products prevent the good functioning of the wedge. The GEKO knife gate valves with the upper gate part always out of body can always open and being sharp always can close with sharp edge.

■ APPLICATION

- Pulp production.
- Water, water treatment, waste water.
- Chemical industry: powdery or crystallizing products.
- Brewery industry: wine-producing.
- Pulverized products: cement work, pneumatic transport, stocking.

■ MODEL

- Standard GKV type.

■ GENERAL CHARACTERISTICS

- Function ON/OFF or regulation.
- Wafer threaded mounting.
- Unidirectional tightness, direction indication thanks to the arrow on the body.
- Small retention zone: the gate is guided in the body and has little clearance.
- Gland assembly: packing and O-ring (same materials as seat joint) to assure the elasticity and decrease the operating torque.
- Small head loss.
- Possibility to regulate thick fluids with the adaptation of a diaphragm ring.

■ STANDARD CONSTRUCTION MATERIALS (see material chart on page 3)

- Cast iron EN-GJL-250 body / Stainless steel X5CrNi 18-10 gate
- Stainless steel GX5CrNiMo 19-11-2 body / Stainless steel X5CrNiMo 17-12-2 gate.

■ COATING

- Oven cooked epoxy until DN 600, RAL 6005.
- Liquid epoxy painting for diameter superior to the DN 600.

■ SEAT GASKET (see material chart on page 3)

- Nitrile for cast iron body valve.
- EPDM for stainless steel body valve.
- Tightness metal / metal: relative tightness.
- White nitrile, white EPDM, silicone, FPM (type Viton®), CSM (type Hypalon®), PTFE etc.
- The L joint, fixed in the body with a stainless support ring, can not tored away.

■ PACKING

- PTFE packing in cast iron or stainless steel construction.
- Optionally: graphite, PTFE for high temperature etc.
- Nitrile O-ring for cast iron body valve and EPDM for stainless body valve.

■ PREFORMED SUPPORTING PLATES (until DN 300)

- Steel plate epoxy coated (optionally with stainless steel material).
- Standard fixation holes for detection elements and solenoid valves.
- Possibility of mounting protection shields.

标准系列刀闸阀

■ 压力/温度

- 最大工作压力
- DN 50 至 250 : 10 巴
- DN 300 至 450 : 7 巴
- DN 500 至 600 : 4 巴
- DN 700 至 1200 : 2 巴
- 最高工作温度: 丁腈 80°C; 乙丙胶 110°C.
- 其它材质 (详见 5 页)

■ 标准和测试

- 生产标准遵循欧盟指令 97/23/CE《压力设备标准》: 流体类型 III 模式 H (从 DN 50 至 DN 600).
- 测试程序符合 NF EN 12266-1, NF EN 12266-2, DIN 3230 和 ISO 5208 标准。

■ 连接标准

- 法兰对夹安装, 由螺栓和螺母固定。(详见 44-45 页)
- PN 10 对夹式符合 EN 1092-1, EN 1092-2, BS 450, ANSI B 16-5 及 ASA 150 标准, 也可订做 TAPPI 标准。

■ 结构长度

依据 GEKO 标准。

■ 执行机构

- 手轮、链条手轮, 可带明杆或在限定整体尺寸时可用暗杆。
- 杠杆。
- 蜗动头。
- 双作用气动头和单作用气动头 (单作用气动头里的弹簧可能会增加气动头整体长度)。
- 按需求可在气动头上加配紧急手动装置。
- 紧急情况下可使用压缩空气罐。
- 三相或单相 230/400 V 电动头。
- 液压缸。
- 防爆保护装置。

■ 附件

- 机械式或感应式限位开关。
- 5/2 或 3/2 电磁阀。
- 消声器。
- 调节润滑过滤器。
- 电动气动定位器。
- 防爆电气排线。
- 可应要求提供镀 PVC 铜气动排线。

■ 特殊制造

- 阀门 ISO PN 25.
- 阀门 ASA 150 lbs.

Standard knife gate valve

■ PRESSURES / TEMPERATURES

- Maximum working pressures:
- DN 50 - 250: 10 bar,
- DN 300 - 450: 7 bar,
- DN 500 - 600: 4 bar,
- DN 700 - 1200: 2 bar,
- Maximum working temperatures: nitrile: 80°C; EPDM: 110°C.
- Other materials (see table on page 5).

■ AGREEMENT AND TESTING

- Manufacture according to the requirements of the European directive 97/23/CE «Equipments under pressure»: category III modulate H (from DN 50 to DN 600).
- Test procedures are established according to NF EN 12266-1, NF EN 12266-2, DIN 3230 and ISO 5208.

■ CONNECTION

- Mounting between flanges by bolts and nuts (see pages 44 and 45).
- Between flanges PN 10 according to EN 1092-1 and EN 1092-2 / BS 450 / ANSI B 16-5 option ASA 150 or standard TAPPI on request.

■ FACE TO FACE

According to standard GEKO.

■ HANDLING POSSIBILITIES

- Handwheel, chain handwheel in standard with rising stem or no rising stem for limited overall dimensions.
- Lever.
- Gear box actuator.
- Double acting pneumatic actuator, single acting pneumatic actuator up to DN 300 (attention to important height because of springs).
- Pneumatic actuator with emergency manual operator on request.
- Possibility of using compressed air tank for emergency operation.
- Electric actuator 230/400 V 3-phases or mono-phase.
- Hydraulic actuator.
- ADF protection ...

■ ACCESSORIES

- Mechanical or inductive limit switches.
- Solenoid valves 5/2, 3/2 with coils of 24 to 230V AC or DC.
- Pneumatic distributor.
- Exhaust silencer.
- Regulating-lubricating filter.
- Electro-pneumatic positioner.
- Electric cabling anti-deflagration.
- Pneumatic cabling with copper coated PVC on request.

■ SPECIAL CONSTRUCTIONS

- ISO PN 25 valves.
- ASA 150 lbs valves.



穿通式刀型闸阀

Through conduit knife gate valve

■ 性能特点

- 基本结构与标准刀闸阀相似。
- 双向密封，带两个阀座密封圈。
- 阀体更长，两片阀体由螺栓连接固定。
- 阀体更长，其底部伸出阀体外，有第二个密封填料系统，保证阀门密封性。
- 阀门上预留有通孔，其作用是：
阀门开启时，介质可以从通孔中顺利通过，无滞留区。
- 阀门关闭时，能完全密闭。
穿通式刀闸阀特别适用于造纸厂的浆料出口处，浆料中的回收废纸混有大量杂质(如：订书钉...)
- 阀门上无滞留区，因此适用于如干燥器和反应器等化学设备的装裁和卸载。
即使在困难条件下，阀门也可完全关闭。
由于没有标准刀闸阀的滞留区，阀座无产品堆积保证阀门密封性能。

■ 性能特点

- 穿通式刀闸阀主要阀板和两片式阀体组成，阀板上有通孔，在阀体间上下移动。
- 当阀板上通孔与阀体间开口对准时，阀门开启。
- 当阀板通孔移到闭合区时，阀门关闭。
- 阀板运动原理同“雪茄烟刀”相似。

■ 执行机构

- 执行机构、限位开关和附件与GKV标准刀闸阀一致(见9页)

■ 标准和测试

- 生产标准遵循欧盟指令97/23/CE《压力设备标准》：
流体类型III模式H(从DN50至DN300)
- 测试流程符号NFEN1266-1, NFEN1266-2, DIN3230和ISO5208标准。

■ 连接标准

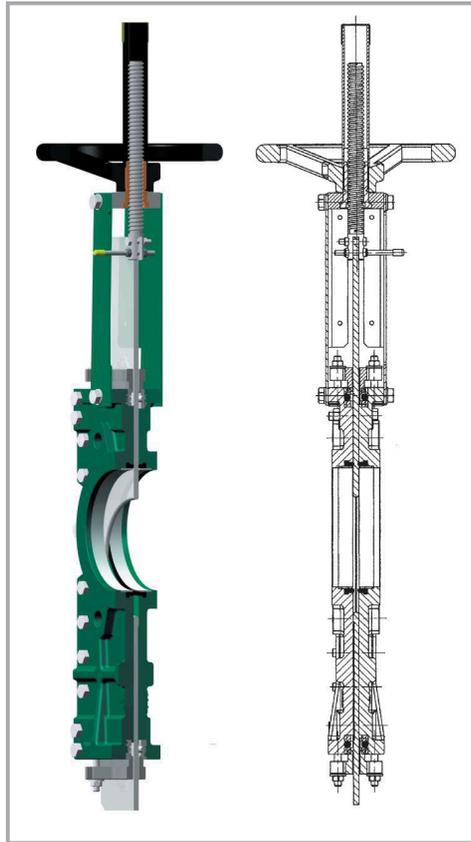
- 法兰对夹安装，由螺栓连接固定(见44-45页)
- PN10对夹式符合NFE29203/BS450/ANSI B 16-5标准，也可订做ASA150标准。

■ 结构长度

- 依据GEKO标准

■ 压力/温度

- 最大工作压力
 - DN50-250: 10巴
 - DN300-400: 6巴
 - DN450-600: 3.5巴
 - DN700-1200: 2.0巴
- 最高工作温度
 - 丁晴: 80°C
 - 乙丙胶: 110°C
 - 其它材质(见5页表)



■ GENERAL CHARACTERISTICS

- General construction similar to GKV standard knife gate.
- Bidirectional gate, with two seat gaskets.
- Longer body in two parts assembled by bolts.
- The gate is longer and its lower part rests out of the body, which requires a second system of gland packing.
- The gate contains a hole, which assures:
 - in opened position, a complete passage of the fluid without retention zone.
 - in closed position, the complete obturation.
- This gate is particularly adapted in paper mill, in the exit of pulp, for the recovery of the old paper where the product is mixed with numerous impurities (ex: staples).
- No retention zone: interesting in load or unloading of chemical device (dryer, reactor...).
- Valve tightness even in difficult conditions. No accumulation of product in the bottom of gate evacuation gorge.

■ PRINCIPLE OF FUNCTIONING

- The through conduit knife gate valve is composed of a gate containing an opening which moves between two half-bodies.
- When the opening of the gate is aligned with the opening of half-bodies, the valve is opened.
- When the opening is moved in closed zone, the valve is closed.
- The principle of gate movement is similar to the functioning of a «cigar cutter».

■ HANDLING POSSIBILITIES

All the solutions of actuators, detection and accessories are identical to the GKV standard valves (refer to page 9).

■ AGREEMENT AND TESTING

- Manufacture according to the requirements of the European directive 97/23/CE «Equipments under pressure»: category III modulate H (from DN 50 to DN 300).
- Test procedures are established according to NF EN 12266-1, NF EN 12266-2, DIN 3230 and ISO 5208.

■ CONNECTION

- Valves are mounted between flanges by bolts (see pages 44 and 45).
- Between flanges PN 10 following NFE 29203 / BS 450 / ANSI B 16-5 option ASA 150.

■ FACE TO FACE

According to standard GEKO.

■ PRESSURES / TEMPERATURES

- Maximum working pressures:
 - DN 50 - 250: 10 bar,
 - DN 300 - 400: 6 bar,
 - DN 450 - 600: 3.5 bar,
 - DN 700 - 1200: 2.0 bar.
- Maximum working temperatures:
 - Nitrile: 80°C,
 - EPDM: 110°C.
- Other materials (see table on page 5).



放料刀型闸阀

Under silo special knife gate valve

■ 性能特点

基本结构与GKV标准刀闸阀相似，并且特别增加放料功能设计。

放料刀闸阀结构长度比GKV标准刀闸阀更长，它的优势有以下几点：

- 阀腔内滑动支撑点减小了阀板滑动摩擦，使物料顺利通过，无堆积，确保阀腔清洁，从而避免阀板发生卡阻。
- 放料刀闸阀推荐安装方向为反向安装阀座密封圈朝向放料口，反向安装可以避免物料堆积在阀座与密封圈处，另外可加装加强阀座，与导流板功能一样。
- 阀板底端为中间笔直，左右倒角，确保阀板更有效地切断物料。
- 阀体上预留吹扫孔，用于连接压缩空气(<1巴)，进行阀腔内残留物的清扫。

■ 阀体材质

- 铸铁、不锈钢、铝或阳极氧化铝合金（耐磨、可避免铝表面氧化）

■ 压力/温度

- 压力：请向我们咨询
- 温度：
 - 丁晴：80°C
 - 乙丙胶：110°C
- 其它材质：见5页材料表

■ 标准与测试

- 生产标准遵循欧盟指令97/23/CE《压力设备标准》：流体类型III模式H（MDN50至DN600）
- 测试流程符合NFEN12266-1, NFEN12266-2, DIN3230和ISO5208标准。

■ 连接标准

PN10对美法兰符合NFE29203/BS450/ANSI B 16-5, 也可选择ASA150.

■ 结构长度

符合 GEKO 标准



■ GENERAL CHARACTERISTICS

General construction is similar to GKV standard knife gate valve but specially developed for working under silo.

The face to face of the under silo special knife gate valve is more important than GKV standard knife gate valve. This results in following advantages:

- The gate is guided by fingers, which reduce frictions and allow the product to go down without accumulating in the clearances of the body. This avoids the jamming of the gate.
- The recommended direction for the assembly of the under silo gate valve is with the seat gasket on the product side. The body in this position, channels the fluid limiting so its accumulation in the hollow zones. It is also possible to install reinforced seats which act equally as deflectors.
- The attack of the gate is straight with a chamfered extremity for a better penetration in the product.
- The blowing orifices in the body are foreseen in standard to inject compressed air of weak pressure (< 1 bar) preventing the stuffing and the accumulations of product.

■ BODY'S CONSTRUCTION

- Cast iron, stainless steel, aluminium or aluminium hard anodised (resisting to abrasion, avoids forming of alumina in surface).

■ PRESSURES / TEMPERATURES

- Pressures: to consult us.
- Temperatures:
 - Nitrile: 80°C,
 - EPDM: 110°C.
- Other materials: see page 5.

■ AGREEMENT AND TESTING

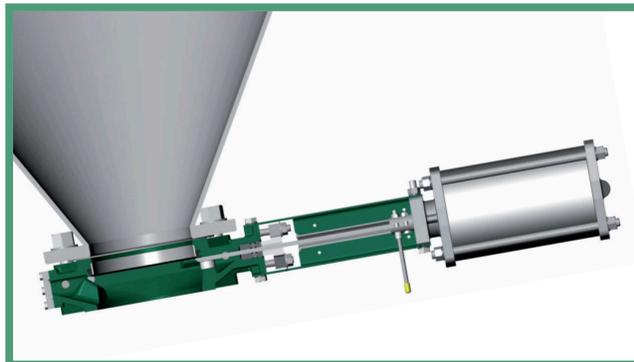
- Manufacture according to the requirements of the European directive 97/23/CE «Equipments under pressure»: category III modulate H (from DN 50 to DN 600).
- Test procedures are established according to NF EN 12266-1, NF EN 12266-2, DIN 3230 and ISO 5208.

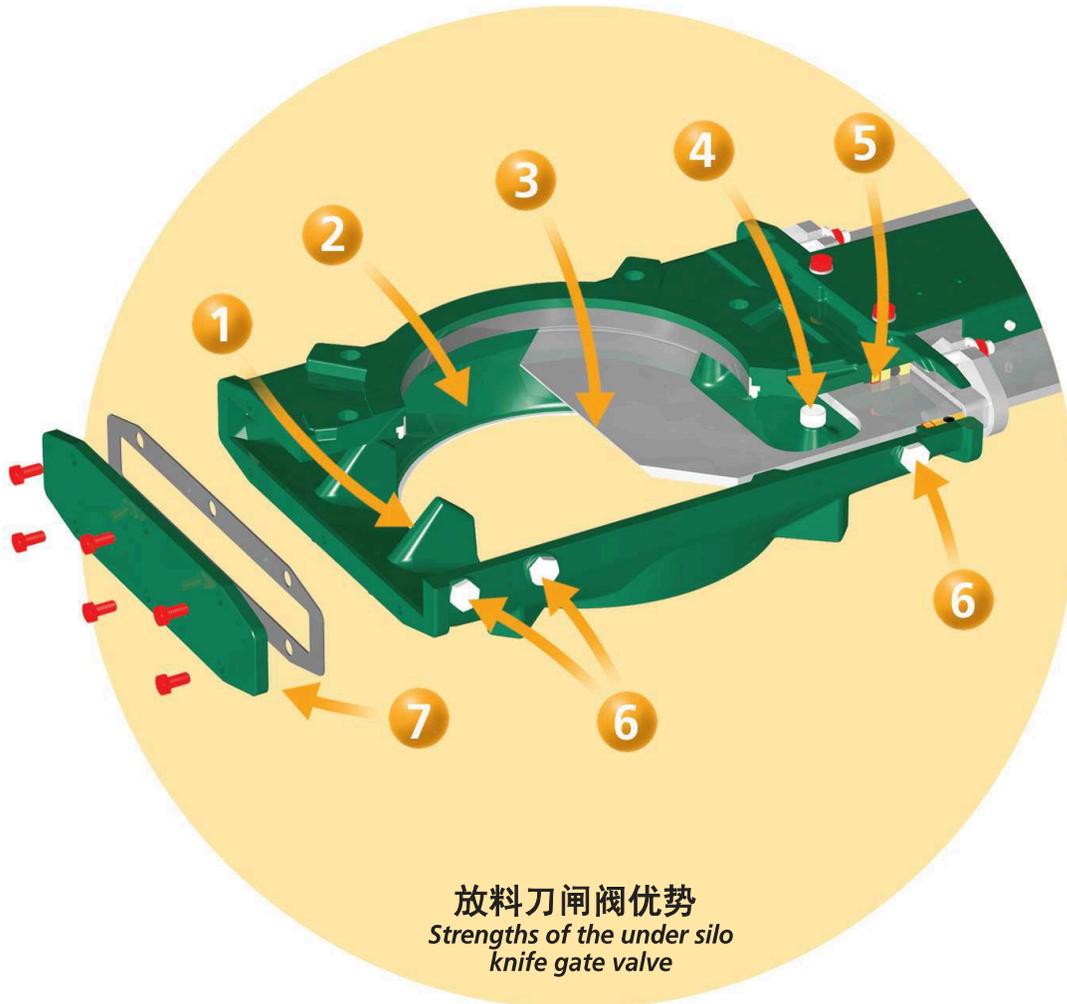
■ CONNECTION

Between flanges PN 10 following NFE 29203 - BS 450 - ANSI B 16-5 - option ASA 150.

■ FACE TO FACE

According to GEKO's standard.





- ① **强化钢：无滞留区**
Steel reinforced: no retention zone
- ② **宽阀体：物料更易畅通**
Wide body: ease of product evacuation
- ③ **带倒角闸板：闸板锋利，可直接切断物料。**
Sharp gate with chamfer: straight cut
- ④ **闸板由PTFE橡胶引导：摩擦小**
Gate guidance by PTFE rubbing plate: low friction
- ⑤ **刮刀式填料：闸板清洁方便**
Scraper effect packing: ease of gate cleaning
- ⑥ **吹风孔：有效简易阀腔内清洁**
Blowing holes: body cleaning simplified
- ⑦ **阀体底部可拆卸**
Dismantling bottom

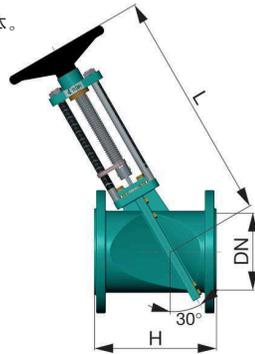
30°角斜插板闸阀

■ 性能特点

特别适用于纸浆造纸行业。
材质：铸铁，不锈钢或者铜阀体。
AISI304闸板 法兰连接PN10。

■ 手轮操作

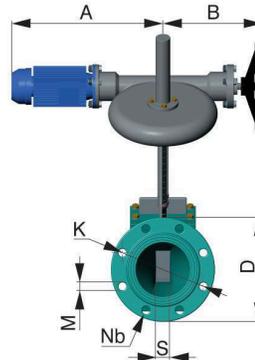
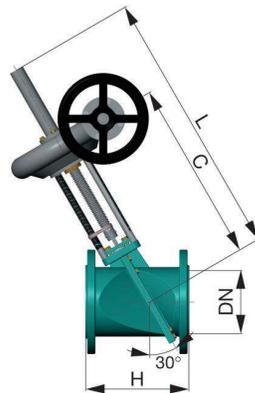
With
handwheel



口径 DN mm	尺寸 Dimensions (mm)						
	D	H	K	L	M	Nb	S
50	165	210	125	340	18	4	20
65	185	225	140	360	18	4	25
80	200	230	160	390	18	4	25
100	220	250	180	440	18	8	30
125	250	265	210	475	18	8	35
150	285	285	240	535	22	8	40
175	315	310	270	565	22	8	45
200	340	330	295	630	22	8	50
250	395	400	350	725	22	12	90
300	445	450	400	830	22	12	110
350	505	500	460	940	22	16	130
400	565	550	515	1030	25	16	150
450	615	600	565	1190	25	20	170

■ 电动执行器

With electric
actuator

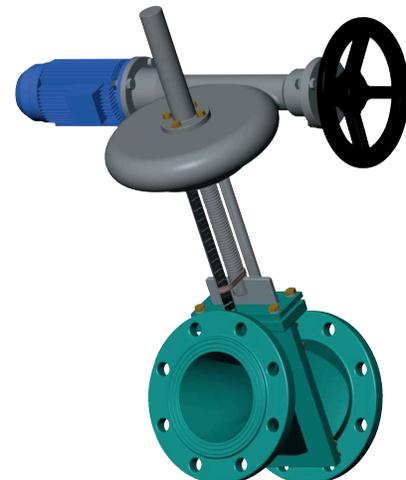
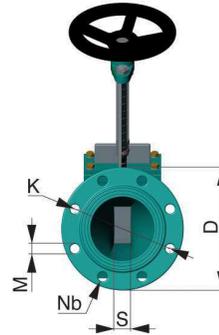


口径 DN mm	尺寸 Dimensions (mm)									
	A	B	C	D	H	K	L	M	Nb	S
50	580	310	350	165	210	125	490	18	4	20
65	580	310	370	185	225	140	530	18	4	25
80	580	310	400	200	230	160	585	18	4	25
100	580	310	430	220	250	180	645	18	8	30
125	580	310	470	250	265	210	715	18	8	35
150	580	310	520	285	285	240	795	22	8	40
175	580	310	570	315	310	270	875	22	8	45
200	580	310	630	340	330	295	965	22	8	50
250	580	310	720	395	400	350	1110	22	12	90
300	610	350	810	445	450	400	1260	22	12	110
350	610	350	920	505	500	460	1410	22	16	130
400	610	350	1010	565	550	515	1560	25	16	150
450	610	350	1170	615	600	565	1710	25	20	170

Gate valve 30° with rectangular slice

■ General characteristics

Valve particularly adapted in pulp and paper industry.
Materials: cast iron, stainless steel or bronze body
AISI 304 gate. Flanged PN 10.



方形平板阀

■ 性能特点

- 阀体焊接成形。
- 阀体和阀板为方形。
- 执行器和附中与 GKV 标准刀闸阀配置相同（见第9页）。

■ 标准构造

- 上升杆密封系列。
- 钢阀体。
- 不锈钢阀杆。
- 丁基橡胶（Butyl 型）阀座密封。
- 丁基橡胶+聚四氟乙烯填料。
- 方形或矩形法兰连接（也可按需预留其它标准安装孔）。

■ 连接标准

按实际尺寸规格要求。

■ 压力/温度

- 最大工作压力：联系我们。
- 最高工作温度：
- 丁睛：80°C
- 乙丙胶：110°C
- 其它材质（见第5页材料表）

■ 测试

测试流程依据NFE29311，DIN3230及ISO5208标准。

■ 尺寸和重量

I x I (mm)	A (mm)	H (mm)			
		手轮 Handwheel	气动执行器 Pneumatic actuator	电动执行器 Electric actuator*	齿轮箱 Gear box
150 x 150	60	536	624	628	703
200 x 200	60	705	808	741	812
250 x 250	70	856	957	852	904
300 x 300	70	924	1046	873	1011
350 x 350	96	1095	1240	990	1310
400 x 400	100	1234	1379	1109	1420
500 x 500	106	1510	1658	1614	1691
600 x 600	110	1746	1896	1758	1895

以上为盖科执行器尺寸（欧玛执行器尺寸可向我们咨询）
GEKO actuator (dimensions with Auma actuator on request)

Square knife gate valve

■ TECHNICAL CHARACTERISTICS

- Welded assembly construction.
- Body and gate in rectangular valve shape.
- All the solutions of actuators, detection and accessories are identical to the GKV standard valves (refer to page 9).

■ STANDARD CONSTRUCTION

- Rising stem tight model.
- Steel body.
- Stainless steel stem.
- IIR (type Butyl®) tightness.
- IIR (type Butyl®) + PTFE packing.
- Steel or stainless steel gate.
- Square or rectangular flanged ends (drilling according to other standard on request).

■ CONNECTION

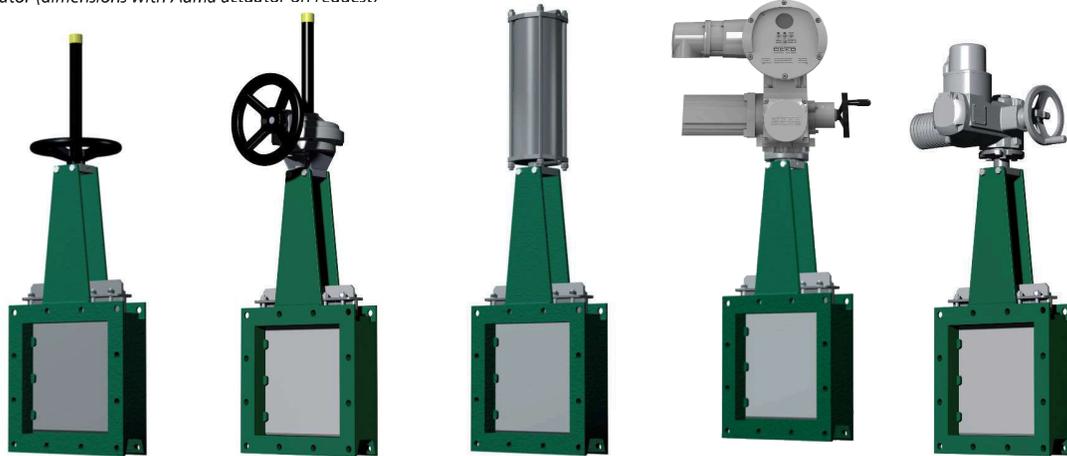
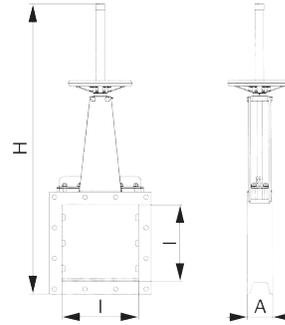
Following specification.

■ PRESSURE / TEMPERATURE

- Maximal working pressure: on request.
- Maximal working temperature:
- nitril: 80°C,
- EPDM: 110°C.
- Other materials (see table page 5).

■ TESTS

Test procedure are established according to NFE 29311, DIN 3230 and ISO 5208.



手轮驱动
Operating by handwheel

蜗轮驱动
Operating by
gear box

双作用气动头驱动
Operating by double
acting pneumatic
actuator

盖科电动头驱动
Operating by GEKO
electric actuator

欧玛电动头驱动
Operating by Auma
electric actuator

水闸门

■ 性能特点

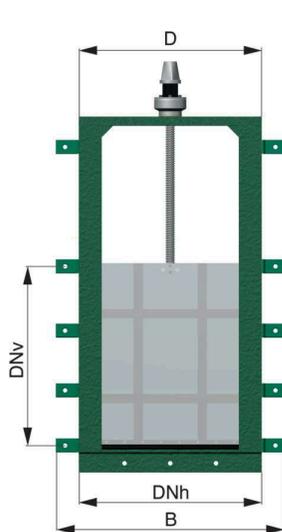
- 油漆钢或不锈钢闸框。
- 超大框架和操作螺杆。
- 关闭时闸板压紧垫圈实现密封。
- 不锈钢后闸座无滞留区。
- 所有控制原件为不锈钢材质（阀杆和支撑）。
- 青铜螺母。

■ TECHNICAL DATA

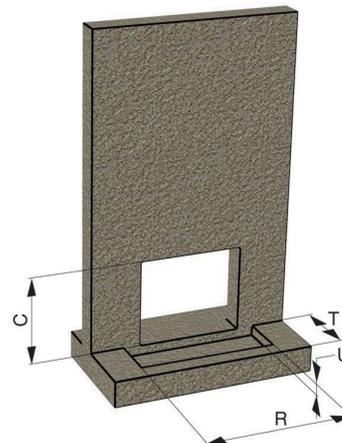
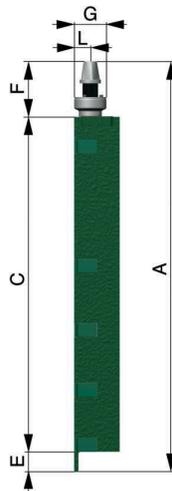
- Painted steel or stainless steel casing.
- Casing and operating screw oversized.
- Tightness with gasket when closed.
- Stainless steel gate (reinforced).
- No retention zone on stainless steel back seat.
- All manoeuvring parts in stainless steel (stem and supports).
- Bronze nut.

■ 至螺栓阀门尺寸 / Valve dimension to bolt

DNhxDNv mm	Dimensions (mm)										
	A	B	C	D	E	F	G	L	R	T	U
200 x 200	800	430	610	320	60	130	215	100	420	250	70
250 x 250	900	470	710	370	60	130	215	100	470	250	70
300 x 300	1000	530	810	420	60	130	215	100	520	250	70
400 x 400	1200	630	1010	520	60	130	215	100	620	250	70
500 x 500	1400	730	1210	620	60	130	215	105	720	250	70
600 x 600	1620	830	1410	720	80	130	235	105	820	300	90
700 x 700	1820	930	1610	820	80	130	235	130	920	300	90
800 x 800	2020	1030	1810	920	80	130	235	135	1020	300	90
1000 x 1000	2430	1230	2210	1120	90	130	235	135	1220	300	100
1200 x 1200	2830	1430	2610	1320	90	130	235	145	1420	300	100
1400 x 1400	3205	1620	3025	1530	90	130	300	196	1630	350	100
1500 x 1500	3405	1720	3255	1630	90	130	300	196	1730	350	100



阀门尺寸
Valve dimension



民用工程尺寸
Civil engineering dimension

Penstocks

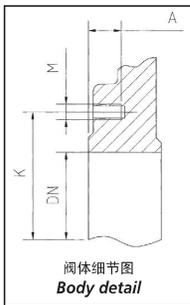
四面密封水闸门
Penstock
tightness 4 sides



三面密封水闸门
Penstock
tightness 3 side

11B 类型法兰
ISO PN 10 连接标准

ISO PN 10 connection
for flange type 11B



口径 DN	法兰连接 Flange connection			两片法兰连接配件 Equipment for assembling between 2 flanges				
	外径 ø D External diameter	法兰孔直径 ø K Drilling circle	法兰孔数量 Hole Number x ø L	螺丝+螺母 (黄色) 数量 (安装方式1) Screw + nut type 1 (yellow) Number x M-Ig	螺丝+螺母 (黄色) 数量 (安装方式2) Screw type 2 (yellow) Number x M-Ig	螺纹深度 Threading depth	螺栓 (红色) 数量 (安装方式1&2) Bolt type 1 and type 2 (red) Number x M-Ig	
mm	inch	mm	mm			mm		
50	2"	165	125	4 x 18	8 x M 16-60	8 x M 16-25	8	-
65	2 1/2"	185	145	4 x 18	8 x M 16-60	8 x M 16-25	8	-
80	3"	200	160	8 x 18	8 x M 16-60	8 x M 16-30	9	4 x M 16-120
100	4"	220	180	8 x 18	8 x M 16-60	8 x M 16-30	9	4 x M 16-120
125	5"	250	210	8 x 18	8 x M 16-65	8 x M 16-30	9	4 x M 16-120
150	6"	285	240	8 x 22	8 x M 20-70	8 x M 20-35	10	4 x M 20-130
200	8"	340	295	8 x 22	8 x M 20-75	8 x M 20-35	12	4 x M 20-140
250	10"	395	350	12 x 22	16 x M 20-80	16 x M 20-40	12	4 x M 20-150
300	12"	445	400	12 x 22	16 x M 20-80	16 x M 20-40	12	4 x M 20-150
350	14"	505	460	16 x 22	20 x M 20-90	20 x M 20-45	19	6 x M 20-180
400	16"	565	515	16 x 26	20 x M 24-90	20 x M 24-50	20	6 x M 24-200
450	18"	615	565	20 x 26	28 x M 24-100	28 x M 24-55	24	6 x M 24-200
500	20"	670	620	20 x 26	28 x M 24-100	28 x M 24-55	24	6 x M 24-200
600	24"	780	725	20 x 30	28 x M 27-110	28 x M 27-50	24	6 x M 27-200
700	28"	895	840	24 x 30	32 x M 27	32 x M 27	-	8 x M 27-220
800	32"	1015	950	24 x 33	32 x M 30	32 x M 30	-	8 x M 30-220
900	36"	1115	1050	28 x 33	40 x M 30	40 x M 30	-	8 x M 30-220
1000	40"	1230	1160	28 x 36	40 x M 33	40 x M 33	-	8 x M 33-220
1200	48"	1455	1380	32 x 39	44 x M 36	44 x M 36	-	10 x M 36-240



DN 50-65



DN 80-200



DN 250-300



DN 350-400



DN 450-600



DN 700-800



DN 900-1000



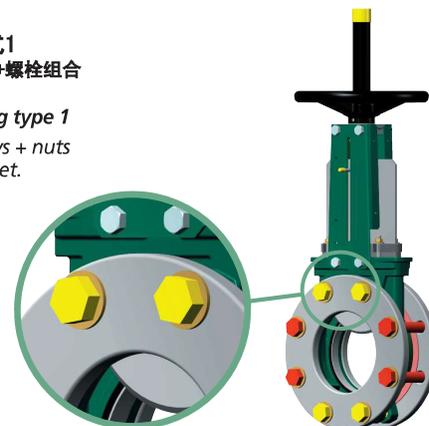
DN 1200

安装方式
Type of assembling



安装方式1
螺丝+螺母+螺栓组合

Assembling type 1
With screws + nuts
and bolts set.



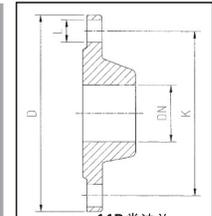
安装方式2
螺丝+螺栓组合

Assembling type 2
With screws and
bolts set.

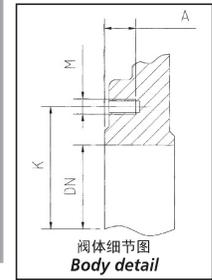
11B 类型法兰 ASA 150 连接标准

ASA 150 connection for flange type 11B

口径 DN	法兰连接 Flange connection				两片法兰连接配件 Equipment for assembling between 2 flanges			
	外径 øD External diameter	法兰孔直径 øK Drilling circle	法兰孔数量 Hole Number x ø L	螺丝+螺母 (黄色) 数量 (安装方式1)	螺丝+螺母 (黄色) 数量 (安装方式2)	螺纹深度 Threading depth	螺栓 (红色) 数量 (安装方式1&2)	
				Screw + nut type 1 (yellow) Number x M-lg	Screw type 2 (yellow) Number x M-lg			Bolt type 1 and type 2 (red) Nombre x M-lg
mm	inch	mm	mm	mm	mm	mm	mm	
50	2"	152.4	120.6	4 x 19.0	8 x M 16-60	8 x M 16-30	10	-
65	2 1/2"	177.8	139.7	4 x 19.0	8 x M 16-65	8 x M 16-35	10	-
80	3"	190.5	152.4	4 x 19.0	8 x M 16-65	8 x M 16-35	10	-
100	4"	228.6	190.5	8 x 19.0	8 x M 16-65	8 x M 16-35	10	4 x M 16-120
125	5"	254.0	215.9	8 x 22.2	8 x M 16-65	8 x M 16-35	10	4 x M 16-120
150	6"	279.4	241.3	8 x 22.2	8 x M 20-75	8 x M 20-40	12	4 x M 20-140
200	8"	342.9	298.4	8 x 22.2	8 x M 20-80	8 x M 20-40	12	4 x M 20-150
250	10"	406.4	361.9	12 x 25.4	12 x M 20-80	12 x M 20-45	12	6 x M 20-160
300	12"	482.6	431.8	12 x 25.4	12 x M 20-85	12 x M 20-45	12	6 x M 20-160
350	14"	533.4	476.2	12 x 28.6	12 x M 20-100	12 x M 20-60	22	6 x M 20-200
400	16"	596.9	539.7	16 x 28.6	20 x M 24-110	20 x M 24-60	22	6 x M 24-220
450	18"	635.0	577.8	16 x 31.7	20 x M 24-110	20 x M 24-65	22	6 x M 24-220
500	20"	698.5	635.0	20 x 31.7	28 x M 24-110	28 x M 24-65	20	6 x M 24-240
600	24"	812.8	749.3	20 x 34.9	28 x M 27-120	28 x M 27-70	20	6 x M 27-240



11B类法兰
DIN 2632 标准
For flange type 11B
standard DIN 2632



阀体细节图
Body detail



DN 50-80



DN 100-200



DN 250-350



DN 400-450



DN 500-600

■ 压紧扭矩 / Tightening torque

8-8类标准钢 (遵循DIN ISO898/1和NFE E25100) 8-8 class standard steel (following standard DIN ISO 898/1 and NFE E 25100).

口径 DN (mm)	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
螺纹 / Threading	M 16	M 16	M 16	M 16	M 16	M 20	M 24	M 24	M 24	M 27	M 27	M 30	M 30	M 33	M 36				
压紧扭矩 Tightening torque (Nm)	 60	60	60	60	60	70	70	70	70	70	150	150	150	230	230	300	300	400	500
	 190	190	190	190	190	370	370	370	370	370	650	650	650	940	940	1290	1290	1740	2250

电动执行器 ISO 5210 连接标准

所有系列刀闸阀设计安装其座为ISO5210标准，因此可装配各种类型执行机构。

Electric actuators ISO 5210 connection

The range of knife gate valves is conceived to accept normally all the types of electric actuators thanks to its mounting flange of connecting according to the standard ISO 5210.

盖科及欧玛电动执行器 GEKO and Auma electric actuators

盖科 GEKO

型号 Type	扭矩 Torque Nm
GKSA21.0	60
GKSA32.0	125
GKSA43.0	250



欧玛 AUMA

型号 Type	扭矩 Torque Nm
SA 07.1	30
SA 07.5	60
SA 10.1	120
SA 14.1	250



安装法兰基座
ISO5210标准

Embase
Mounting
flange
ISO 5210



技术参数 / Technical characteristics

口径 DN		安装法兰 ISO 5210 flange ISO 5210	ΔP	阀门直径 Stem diameter	圈数 Turns number	电动执行器 / Electric actuator	
mm	inch		bar			GEKO	Auma
50	2"	F7/F10	10	Tr 20 x 4 à gauche (left)	13	GKSA10.0 F10(F07)	SA 07.1 F10 / (F07)
65	2"1/2	F7/F10	10	Tr 20 x 4 à gauche (left)	16	GKSA10.0 F10(F07)	SA 07.1 F10 / (F07)
80	3"	F7/F10	10	Tr 20 x 4 à gauche (left)	20	GKSA11.0 F10(F07)	SA 07.1 F10 / (F07)
100	4"	F7/F10	10	Tr 20 x 4 à gauche (left)	25	GKSA11.0 F10(F07)	SA 07.1 F10 / (F07)
125	5"	F7/F10	10	Tr 20 x 4 à gauche (left)	31	GKSA21.0 F10(F07)	SA 07.5 F10 / (F07)
150	6"	F7/F10	10	Tr 20 x 4 à gauche (left)	38	GKSA21.0 F10(F07)	SA 07.5 F10 / (F07)
200	8"	F10/F14	10	Tr 25 x 5 à gauche (left)	40	GKSA21.0 F10(F07)	SA 07.5 F10 / (F07)
250	10"	F10/F14	10	Tr 25 x 5 à gauche (left)	50	GKSA21.0 F10(F07)	SA 07.5 F10 / (F07)
300	12"	F10/F14	7	Tr 25 x 5 à gauche (left)	60	GKSA31.0 F10	SA10.1 F10
350	14"	F10/F14	7	Tr 35 x 6 à gauche (left)	58	GKSA31.0 F10	SA 10.1 F10
400	16"	F10/F14	7	Tr 35 x 6 à gauche (left)	67	GKSA31.0 F10	SA 10.1 F10
450	18"	F10/F14	7	Tr 35 x 6 à gauche (left)	75	GKSA43.0 F14	SA 14.1 F14
500	20"	F10/F14	4	Tr 35 x 6 à gauche (left)	83	GKSA43.0 F14	SA 14.1 F14
600	24"	F10/F14	4	Tr 35 x 6 à gauche (left)	100	GKSA43.0 F14	SA 14.1 F14

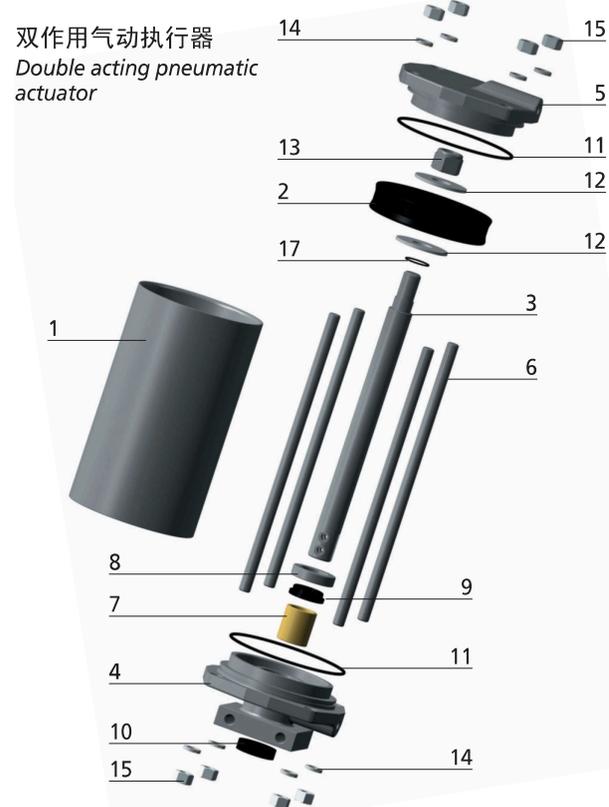
气动执行器

单作用和双作用气动执行器元件

Single and double acting pneumatic actuators spare parts

Pneumatic actuators

双作用气动执行器
Double acting pneumatic actuator

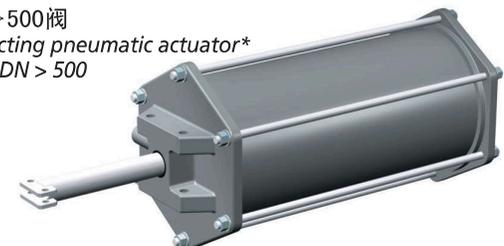


1. 管 / Tube
2. 活塞 / Piston
3. 阀杆 / Stem
4. 下法兰 / Lower flange
5. 上法兰 / Top flange
6. 拉杆 / Rods
7. 引导环 / Guiding ring
8. 固定螺母 / Locking nut
9. 密封圈 / Gasket
10. 防尘盖 / Dust cap
11. O型圈 / O ring
12. 垫片 / Washer
13. 自动螺母 / Self-locking nut
14. 垫片 / Washer
15. 螺母 / Nut
16. 复位弹簧 / Return spring
17. 垫圈 / Gasket

双作用气动执行器*
*Double acting pneumatic actuator**

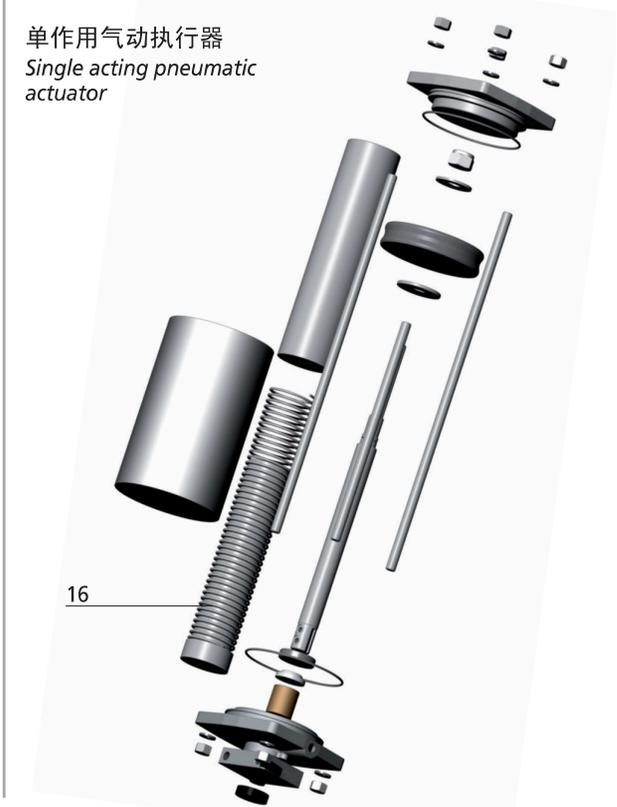


双作用气动执行器*
用于DN>500阀
*Double acting pneumatic actuator**
for valve DN > 500



* 使用润滑空气工作 (最大压力7巴, 工作压力6巴, 最小压力5巴)
Working with lubricated air (maxi pressure 7 bar, working pressure 6 bar, minimum pressure 5 bar).

单作用气动执行器
Single acting pneumatic actuator

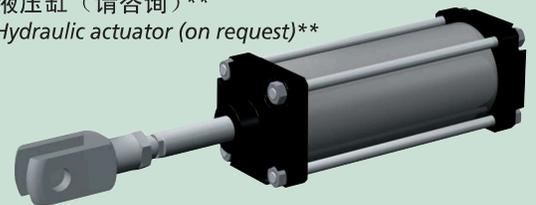


13. 自动螺母 / Self-locking nut
14. 垫片 / Washer
15. 螺母 / Nut
16. 复位弹簧 / Return spring
17. 垫圈 / Gasket

单作用气动执行器*
*Single acting pneumatic actuator**



液压缸 (请咨询)**
*Hydraulic actuator (on request)***



**最大工作压力/MWP: 根据型号最大压力为250巴
250 bar following models.

附件

■ 锥体导流板 / Conical deflector

调节流量，防止介质堆积在阀体上
Adjusts the flow and prevents the accumulation of the product in the valve body.

安装在加工过的阀体上
Assembling with body machining



安装在未加工的阀体上
Assembling without body machining



导流板应安装在阀门逆流方向，并在阀体前后和导流板前后加装垫圈

The deflector should be mounted on the upstream side of the valve with a gasket on each side.

■ 调节型导流板 / Diaphragm

保护阀体，同时调节流量
Protects the body and allows flow regulation.

V形
Vee



三角形
Triangular



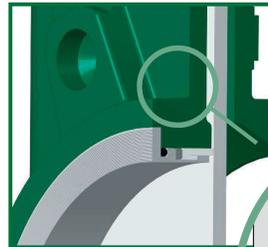
五角星
Pentagonal



Accessories

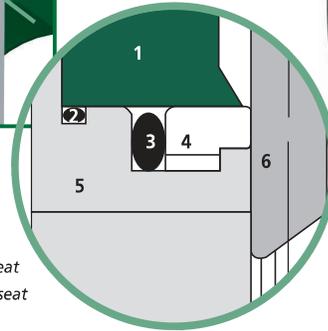
■ 聚四氟乙烯阀座 / PTFE seat

特殊应用图列
Example of a special application



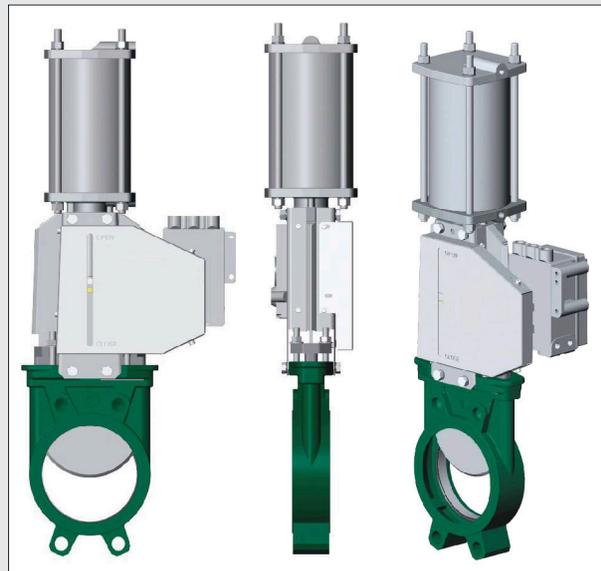
带补偿系统
With compensation system.

1. 阀体 / Body
2. O型圈 / O-ring
3. 橡胶弹簧圈
Rubber spring ring
4. 聚四氟乙烯阀座 / PTFE seat
5. 环形支撑板 / Stiffened seat
6. 阀板 / Gate



数字定位器 / Numerical positioner

实现开启位置自能调节和控制
Allows a clever regulation and control of opening position.



- 安全保护罩 / Security protection.
- 保护等级 IP65和NEMAX 4X / Protection class: IP 65 et (and) NEMAX 4X.
- 防爆保护等级 EEx ia IIC T4 / Explosion protection: EEx ia IIC T4.
- 气源压力: 1.4-6巴 (90psng) / Air supply: 1.4 - 6 bar (90 psig).
- 连接标准: G 1/4" / Connection: G1/4".
- 输入信号: 4-20mA / Input signal: 4 à (to) 20 mA.
- 供电电压: DC 13/36 v / Supply voltage: DC 13/36 V.

使用注意事项

Precautionary measures

■ 阀门位置 / Valves position

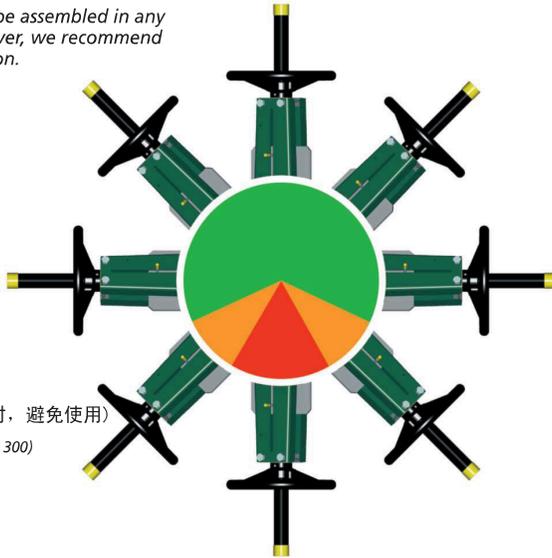
阀门可安装在各个位置，但我们推荐安装在最适合的位置

The valve can be assembled in any position however, we recommend suitable position.

■ 推荐使用
Normal use

■ 偶尔使用
(口径大于300时，避免使用)
Occasional use
(to avoid for DN > 300)

■ 避免使用
use to avoid



■ 移动阀门 Valves handing

安装前，
请小心搬动阀门
Before assembling
please handle the
valve with care.



■ 管端安装 Bottom line assembling

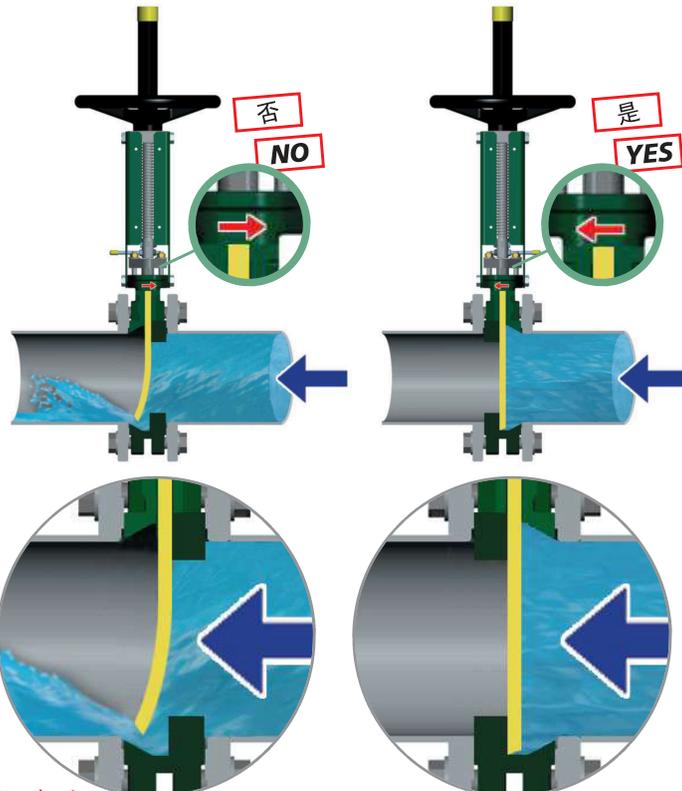
管端安装时，必须用法兰对夹连接
For bottom line assembling the valve must
be installed between flanges.



■ GKV刀闸阀安装方向 / GKV knife gate valve assembling way

阀门只能单项安装，密封圈方向与介质流向一致，使用者必须确认介质流向，按阀体上箭头方向安装阀门。（液压适用）

The valve is unidirectional it must be installed with the pressure which push the knife on the gasket. The flow direction is user responsibility. Please assemble the valve following the arrow on the body (hydraulics applications).



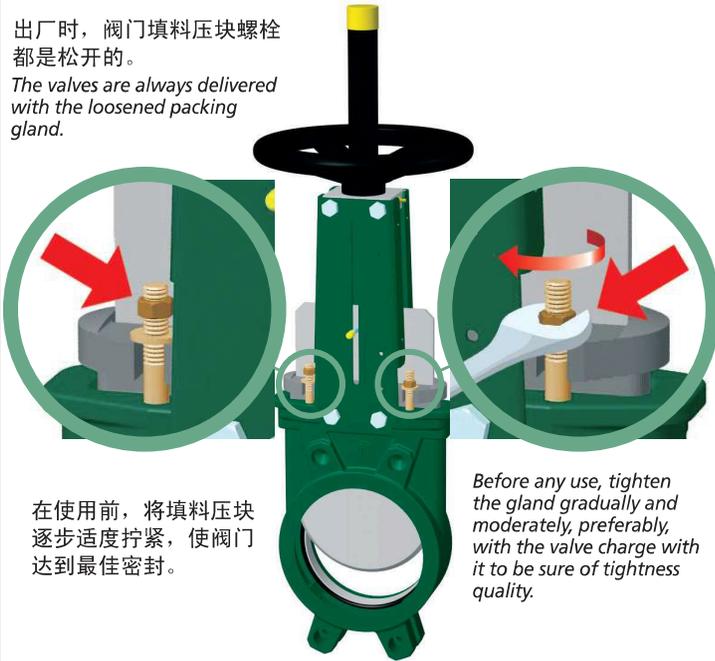
Attention !
注意：关于气力输送和粉末介质安装方向，请与我们联系
For applications of pneumatic transport or pulverized products, consult us.

使用注意事项

■ 拧紧填料压块 / Tight the packing gland

出厂时，阀门填料压块螺栓都是松开的。

The valves are always delivered with the loosened packing gland.

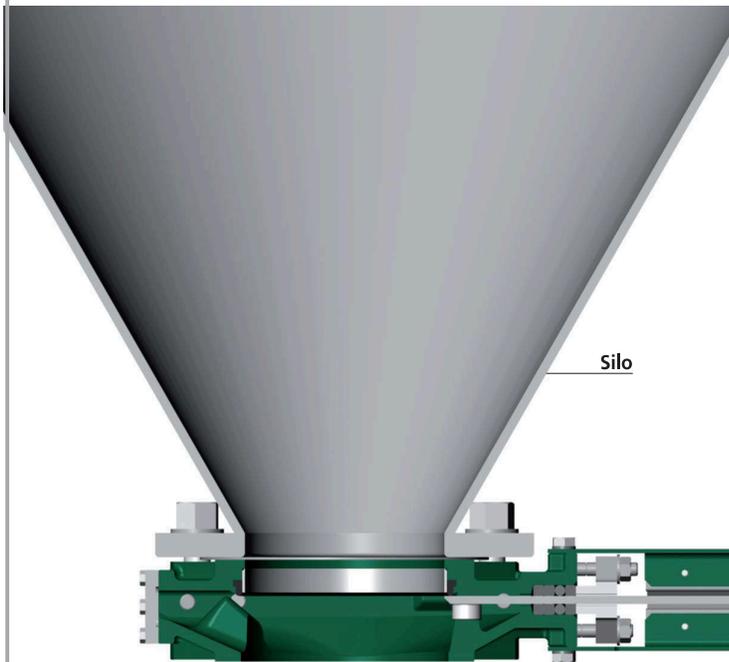


在使用前，将填料压块逐步适度拧紧，使阀门达到最佳密封。

Before any use, tighten the gland gradually and moderately, preferably, with the valve charge with it to be sure of tightness quality.

■ 料仓下使用：GKVS 刀闸阀安装方向

Working under silo : GKVS knife gate valve assembling way



为了更好地放料，应反向安装即密封圈朝向介质流向。

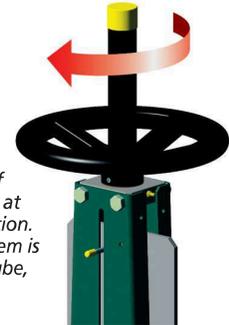
For good discharge it is recommended to assemble the valve with the gasket on the side of the product.

Precautionary measures

■ 阀杆保护套管和润滑 Greasing and protection tube

首次安装时，小心组装阀杆套管，套管保证预留的阀杆油脂不会挥发，为阀杆提供了定期润滑。

Take care of the assembly of the protection tube of stem at the time of the first installation. The grease reserve of the stem is ensured in the protection tube, offering a regular greasing.



如果阀门存储时间延长或使用频率低，请定期润滑阀门阀杆。

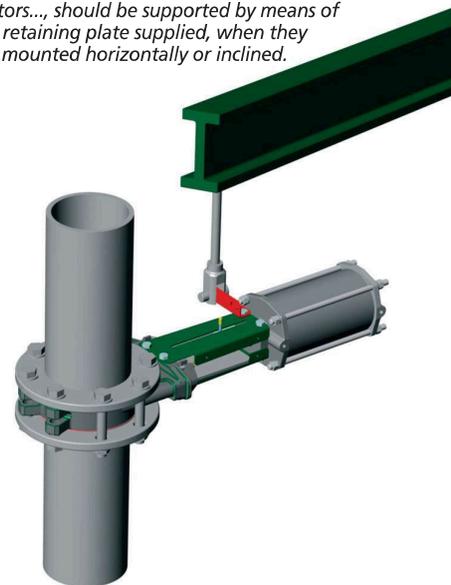
In the event of prolonged storage or of weak frequency of operation, lubricate the valve stem regularly.



■ 阀门支架 / Valves support

大尺寸手动刀闸阀或是带气缸，电动头等重执行器时，水平安装或倾斜安装时，阀门须加装支架。

The manual valves in large diameter, valves equipped with heavy actuators such as actuators, electric motors..., should be supported by means of the retaining plate supplied, when they are mounted horizontally or inclined.





GEKO

CONTROL-VALVES



APIQ1-6D



ATECX 94/9/EC



ISO 9001



97/23/EC/PED



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