



KING GATE

QUALITY · SATISFACTION · TECHNOLOGY

BELLOWS SEALED VALVE SERIES

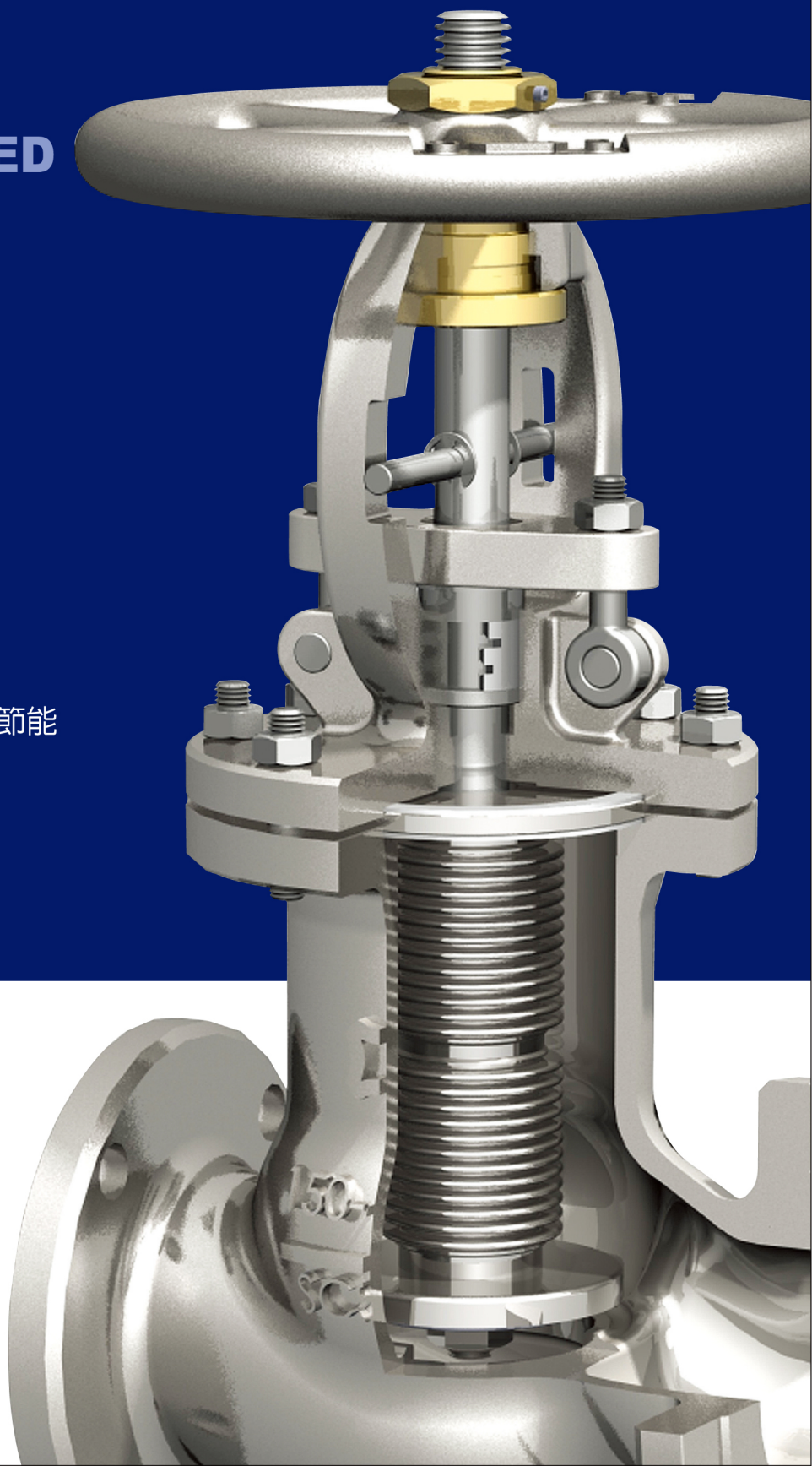
- Maintenance-Free
- Zero emission
- ECO-FRIENDLY

伸縮囊密封型閥門

- 免維修
- 零洩漏
- 環保節能



<http://www.kinggate.com.tw>





BELLOWS SEALED GLOBE VALVE

CHARACTERISTIC EXPLANATION · 伸縮囊密封型球型閥-產品特點說明

金口伸縮囊密封型閥門系列：

- 設計與製造完全合乎API，ANSI，ASTM，ISO，DIN，JIS，JV標準。
- 完美的利用金屬伸縮囊做為閥桿防外漏設計，可使用在毒性氣體及其他特殊流體用途上。
- 免保養，可提供2,000至20,000次開關使用壽命。
- 適合使用在蒸汽管線，能遏止因洩漏所造成的能源損耗。

KING GATE bellows valves are:

- Designed and manufactured in strict conformance to API, ANSI, ASTM, ISO, DIN, JIS and JV standards.
- Reliability and total containment of toxic and aggressive fluids is achieved with bellows sealed stem.
- Maintenance-free service for 2,000 to 20,000 cycles.
- Ideal for steam, which is difficult to contain and where loss of energy is very costly.

※金口所生產的伸縮囊密封閥系列，適用在下列不同嚴格要求的工業及使用環境嚴苛的場所：

※Our Bellows sealed valves are built to meet the exacting demands and rugged service conditions of industries such as:

| 業別Field | 適用場所Applicable plant | 適用流體Applicable fluid |
|----------------------------|--|--|
| 石化工業Petrochemical industry | 各型紡織工業（對苯二甲酸）、合成橡膠、石油煉製 Various textile plants (terephthalic acid), synthetic rubber plant, petroleum refinery. | 蒸汽、氨氣、氫氣、氧氣、熱媒、乙烯 Steam, ammonia, chlorine gas, hydrogen, Dowtherm, ethylene |
| 光電產業Electronics industry | 半導體製造業、矽晶圓製造業、太陽電池製造業 Semiconductor manufacturing plant, Silicon Manufacturing Plants, Solar Cell Manufacturing Plants. | 蒸汽、運輸氣體、廢氣、光氣、氫氣、氫氣 Steam, carrier air, carrier gas, waste gas, phosgene, hydrogen cyanide, argon |
| 一般工業General industry | 煉鋼、造紙、生化、製藥、焚化爐、工廠及醫院用加熱/冷卻系統 Utilities for steelmaking plant, papermaking plant and pharmaceutical plant. Utilities for waste incineration plant, district cooling and heating plant and hospitals. | 蒸汽、熱媒 Steam, heat medium |
| 真空工業Vacuum industry | 各式真空系統 Various vacuum systems. | 惰性氣體 Inert gas |

伸縮囊密封型閥門主要特性：

- 格南零洩漏~金屬波紋管為閥桿設置防外漏第一道機構，絕無外漏疑慮。
- 節省能源效果優異，沒有能源損耗，保護臭氧層及改善環境安全方面具有卓越功能。
- 有效的防止極微小洩漏，所有金屬波紋管都經過正壓及真空氦氣測漏檢驗。
- 使用於含有易燃流體、有毒流體、有氣味的流體和VOC（揮發性有機污染物）的流體，能確實防止微漏。
- 免保養，免維修~不須要定期檢測格南鎖緊狀態，可以減少維修成本。
- 維持管內流體品質。

General Feature of Bellows valve:

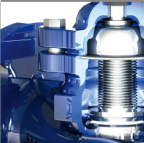
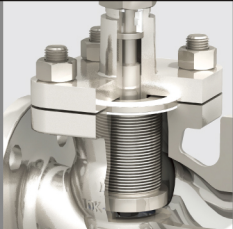
- No leakage from glands~The bellows blocks out leakage from the gland.
- Effective for energy-saving effect~No energy loss due to leakage contributes to prevention of global warming and protection of environment.
- Effective for subtle leakage prevention~All bellows are Helium leak test and bubble test under water.
- Positive effects in bad-smelling/safety measures~Block out leakage of inflammable fluid, toxic fluid, bad-smelling fluid and VOC.
- Easy maintenance~No need to fully tighten the gland packing periodically, which reduces maintenance cost
- Continuous fluid quality~Complete sealing of valve shaft and gland part with the bellows allows no contact with the fluid inside the tube and no contamination of fluid by grease etc.

嚴格品管確保零洩漏：

- 金口擁有優良研發團隊，專業開發金屬伸縮囊密封型相關閥門系列產品。
- 金口金屬伸縮囊至少有兩層結構設計，多層式結構設計優於單層設計。
- 精密微電流離子焊，提供優良的金屬伸縮囊組合零件焊接品質。
- 100%全數伸縮囊組合零件，以氦氣測漏檢驗。
- 洩漏量小於 1×10^{-6} Atm cc/sec。

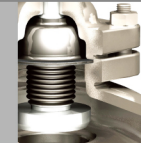
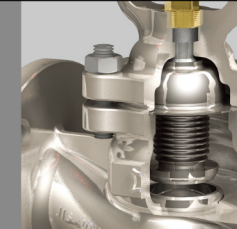
Sensitive Factory Leak Testing Ensures Zero Emissions:

- KING GATE commitment to excellence is particularly true in the R&D's activity related to bellows seal:
- All Bellows are designed with a minimum of two plies. Multi-ply bellows are superior to single ply.....
- Microplasma welding provide a hermetically sealed Bellows assemblies.
- All Bellows assemblies are helium leak tested with a Auto-Test Leak Detectors
- Bellows are rejected if leakage exceeds Test sensitivity 1×10^{-6} Atm cc/sec.



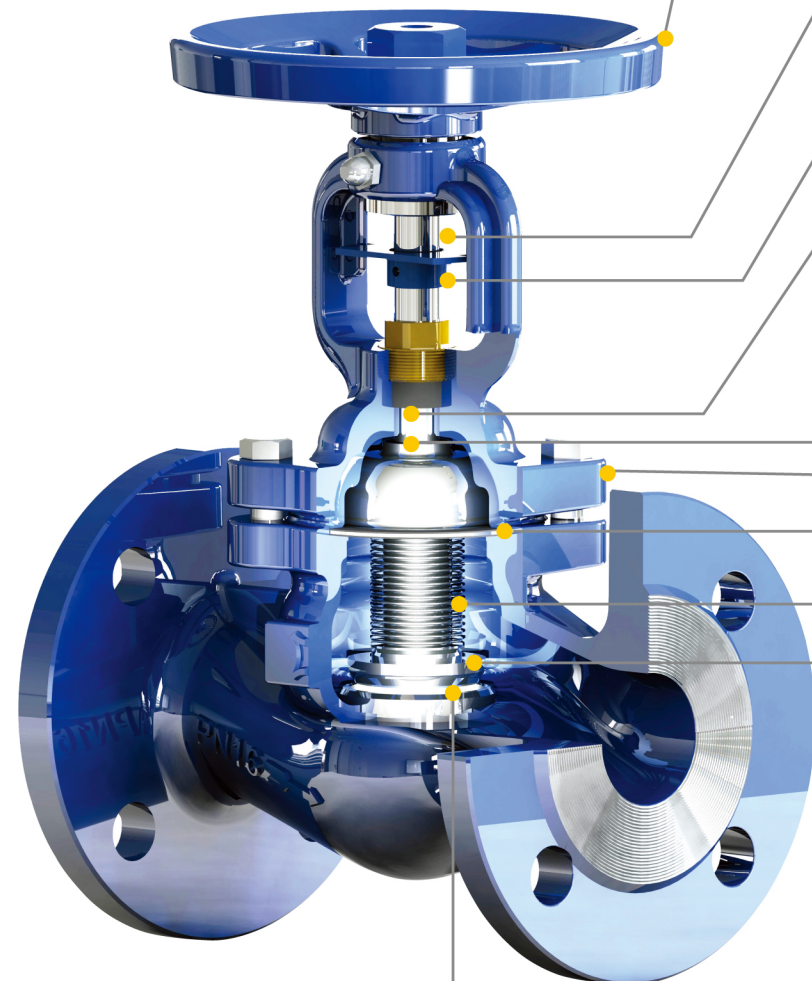
BELLOWS SEALED GLOBE VALVE

STANDARD DESIGN · 伸縮囊密封型球型閥-標準設計說明



BELLOWS SEALED GLOBE VALVE

HIGH PERFORMANCE DESIGN · 伸縮囊密封型球型閥-高性能設計說明



Non-rising handwheel
Ideal in confined spaces
非昇降式手輪，節省管路安裝空間。

Rising non rotating stem in stainless steel. Reduces stem friction. Prevents torsion of bellows.
不銹鋼材質閥桿只允許軸向上昇下降並無旋轉動作，減少與填料函摩擦損耗，防止波紋管扭曲。

Antirotation device and mechanical position indicator.
Prevents torsion of bellows.
防反轉及開度指示裝置，防止波紋管扭曲。

Packing for safety pure graphite asbestos-free
Additional reliability against bellow failure
大面積純石墨填料函包覆閥桿，不含石棉成份，波紋管失去功能後的第二道防外漏設計。

Metal back seat, stroke limiter and anti-vibration device
閥桿於上昇開啓時，與閥蓋產生一金屬密封面，做為行程固定與防震動裝置。

Robust yoke guarantees the reliable functioning
牛軋設計，結構堅固，確保整體功能完整。

Hydraulically formed multilayer bellows designed for 5,000 operations long service life
液壓成形之雙層U型金屬伸縮囊管，在常溫額定壓力下，開關次數可達5,000次以上。

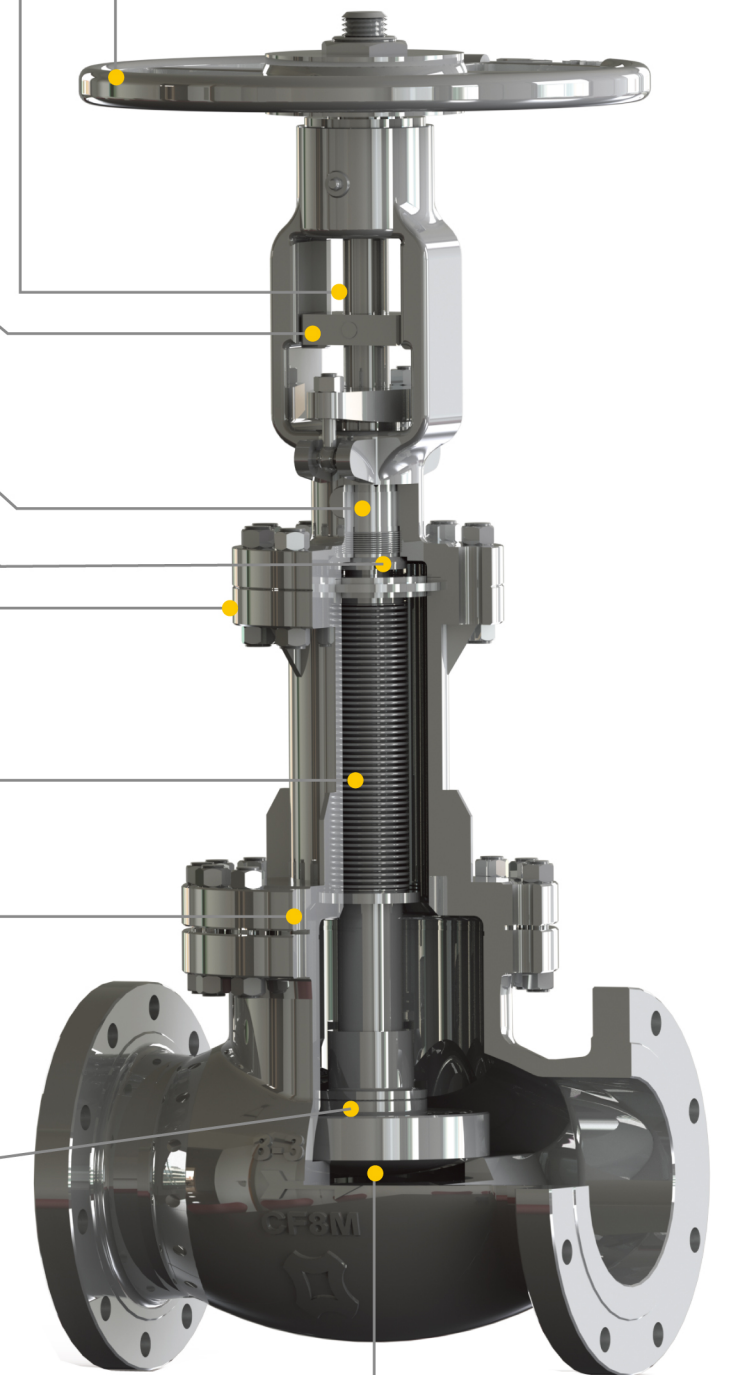
Hydraulically formed multilayer bellows designed for 10,000 operations long service life
Bellows protected against pressure surges due to confined bellows when valve is fully open. Also bellows are welded to stem; no vibrations transmitted from disc to bellows.
液壓成形之多層U型金屬伸縮囊管，閥門全開狀態，波紋管被保護在狹窄閥腔內隔絕流體衝擊。波紋管焊接在閥桿上，不會因為閥門的受到流體正面衝擊將震動負荷傳導至金屬波紋管，常溫額定壓力下，開關次數可達10,000次以上。

Stainless Adhesive Graphite Gasket prevents external leakage
體蓋密封採用金屬包覆軟性石墨墊片，防外漏效果佳。

Stainless Adhesive Graphite Gasket
Tongue and Groove design: No gasket slip possible, long service life
體蓋密封採用金屬包覆軟性石墨墊片，體蓋以凹凸槽式法蘭鎖合，使密封墊片，不會有偏移及脫落疑慮，使用壽命長。

Disc with conical shaped seat made from straight-chromium steel, vacuum hardened or stellite
Mirror-finished seat surface treatment for prevention of internal leakage
麻田散鐵系不銹鋼閥門採錐型設計，表面施以鏡面加工止內漏效果更佳，真空熱處理或堆焊史帝田鐵合金層，提昇閥門表面硬度及耐磨性。

Marginal seats with conical seating are better for flow are more suitable for throttling and regulating functions
Self-cleaning due to angular seat
配合閥門角度，但兩者錐型相差1°，形成線性接觸面，防內漏效果佳兼具流量調節功能，線性接觸面，不易在接觸面上積存或沾染雜質，避免損壞密封面。



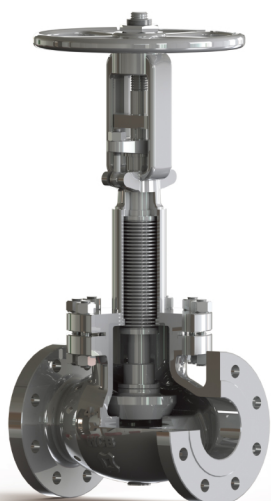
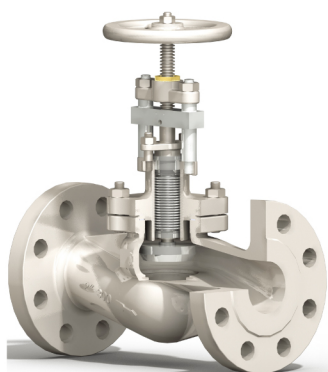


BELLOWS SEALED VALVE SERIES

INTRODUCTION OF PRODUCTS · 伸縮囊密封型閥門諸元簡介



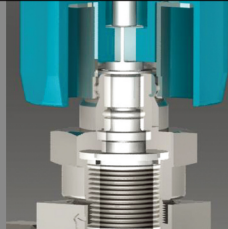
- PN16/PN25/ JIS10K/20K/ Class 150/Class 300
- Bellows Sealed Globe valve
- Flanged/Socked welded/Butt weld
- JS1025(GGG 40.3)/ FCD 450-10/ FCD-S /WCB/ CF8/CF8M
- 1/2" ~8"



- Class 150/Class 300/ Class 600
- Long Bellows Sealed Globe valve
- Flanged/Socked welded/Butt weld
- WCB /CF8/CF8M
- 1/2"~12"

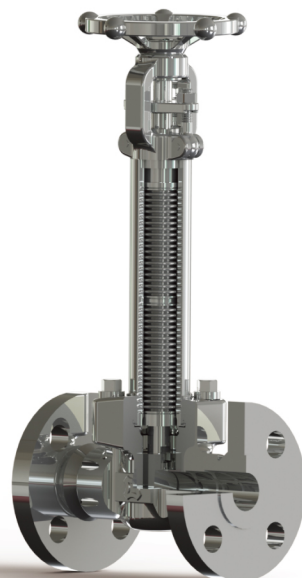
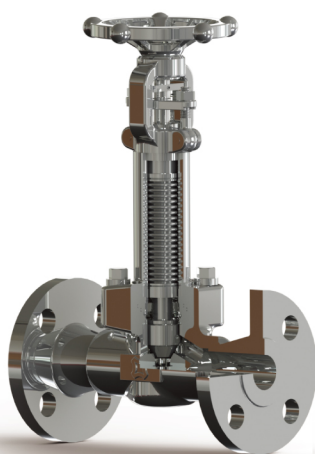


- Class 150/Class 300/ Class 600
- Long Bellows Sealed Gate valve
- Flanged/Socked welded/Butt weld
- WCB /CF8/CF8M/
- 1/2"~24"



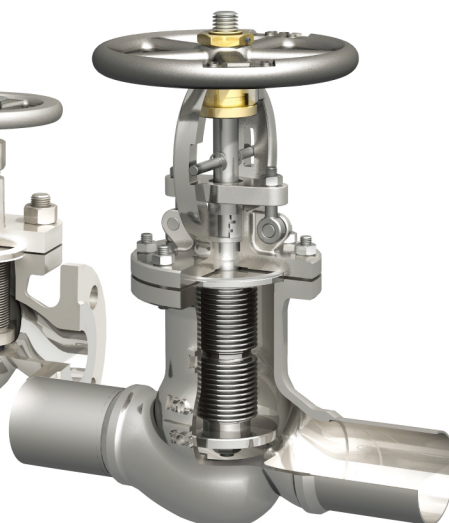
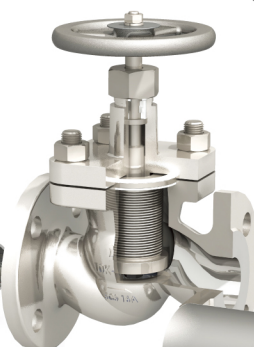
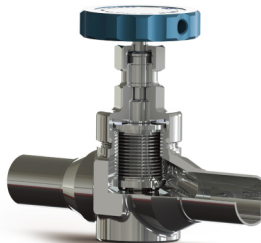
BELLOWS SEALED VALVE SERIES

INTRODUCTION OF PRODUCTS · 伸縮囊密封型閥門諸元簡介



- Class 800/Class 150/Class 300/ Class 600
- Forge Long Bellows Sealed Globe Valve
- Flanged/ Threaded/Socket welded/Butt weld
- A105/F304/F316
- 1/2"~2"

- Class 800/Class 150/Class 300/ Class 600
- Forge Bellows Sealed Gate Valve
- Flanged/ Threaded/Socket welded/Butt weld
- A105/F304/F316
- 1/2"~2"



- JIS10K/JIS20K
- Ultra-High Purity Valves
- Flanged/ Pipe/Tube/VCR (Metal Seal)/Lok (Compression)
- F304/F316/F316LSCS13A/SCS14A/SCS16A
- 1/8"~ 1", 15A~200A



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