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KING GATE

OPERATING SAFELY AND RELIABLY

球狀石墨鑄鐵蒸汽閥

DUCTILE IRON STEAM VALVES



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DUCTILE IRON VALVE

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金口公司 已累積了數十年的球狀石墨鑄鐵蒸汽閥的專業製造經驗，提供10K、16K到20K整系列安全可靠、品質穩定之產品。
KING GATE has been firmly established as a supplier DUCTILE IRON STEAM VALVES for several decades.

能源 – 是逐年增值的寶貴資源，製造業利用熱能，例如加熱產品、蒸發過程、滅菌和食品加工，或者用於能源設施，包括發電廠、燃氣和石油設施。蒸汽是許多應用中使用的介質。

Energy – an increasingly valuable resource from year to year – is used by the manufacturing industry in the form of heat, for example to heat products or for evaporation processes, sterilisation, and food processing or energy facilities including power generation plants, gas and oil plants. Steam is the media employed in many of these applications. KING GATE 's proven expertise and reliability whenever steam, hot water or condensate applications from 10K, 16K to 20K need to be controlled SAFELY and RELIABLY.

應用領域 Field

行業： 食品和飲料、電力工廠和可再生能源、鋼鐵廠、區域供熱、建材、木材、紙漿和造紙、輪胎、鍋爐、制冷

化學工業： 有機化學品、醇類、聚合物

工廠製程： 發電廠、石油和天然氣、冶金、造紙、工程木材製造

造船業： 冷卻水系統、壓艙水系統、排氣系統和輔助鍋爐、暖通空調系統

暖通空調： 供暖、空調和冷水、區域供熱、熱水和蒸汽

Industry: Food and beverages, Power plants & renewable energy, Steelworks, District heat, Building materials, Wood, pulp and paper, Tyres, Boilers, Refrigeration

Chemical Industry: Organic chemicals, Alcohols, Polymers

Plant engineering: Power plants, Oil & gas, Metallurgy, Paper, Engineered wood manufacturing

Shipbuilding: Cooling water systems, Ballast water systems, Exhaust gas and auxiliary boilers, HVAC systems

HVAC: Heating, Air conditioning and cold water, District heat, Hot water & steam

適用工廠 Applicable plant

- 蒸汽、熱水或熱油供應的管道
- 空調、冷水和暖氣系統
- 一般高壓氣體應用
- Piping for steam or Hot water or Thermal oil supply
- Air conditioning and cold water & heating systems
- High pressure gaseous service in general
- piping for poisonous gas service

應用建議 Service Recommendation

球狀石墨鑄鐵蒸汽閥非常適用於高溫或低溫條件下需要較高機械抗震能力的場合，相較於普通灰口鑄鐵閥門，球狀石墨鑄鐵蒸汽閥具有更好的抗拉強度和延展性，有時甚至可以替代鑄鋼閥門。

Ductile iron valves are highly recommended for higher mechanical shock resistance under high or low temperature services, and better tensile strength and elongation characteristics than those of ordinary gray iron valves, sometimes replace of cast steel valves.

適用於閥門的球狀石墨鑄鐵特性 Ductile Iron features suited to valves

灰口鑄鐵、球狀石墨鑄鐵和可鍛鑄鐵是常見用於閥門製造的三種鑄鐵材料。與灰口鑄鐵不同，球狀石墨鑄鐵和可鍛鑄鐵的金屬結構含有球狀石墨（參考顯微鏡觀察）。這種結構使得球狀石墨鑄鐵和可鍛鑄鐵具有優於灰口鑄鐵的機械性能，幾乎與昂貴的鑄鋼閥門材料相當。此外，它們優異的鑄造性和加工性能有助於增加其作為閥門材料的適用性。

球狀石墨鑄鐵由於其更好的機械特性，在閥體的構建方面優於可鍛鑄鐵。閥體是一種壓力容器，例如；它具有 20% 更高的抗拉強度和 70 至 80% 更好的延展性。這種差異來自於球狀石墨分子不同的形成過程。

球狀石墨鑄鐵還具有比鑄鋼更好的耐磨性、耐腐蝕性和耐氧化性，因此在城市建設領域以及水、鹽水和蒸汽環境中廣泛應用。因此，它非常適合生產閥門零件，此外，球狀石墨鑄鐵的成本遠低於不銹鋼。

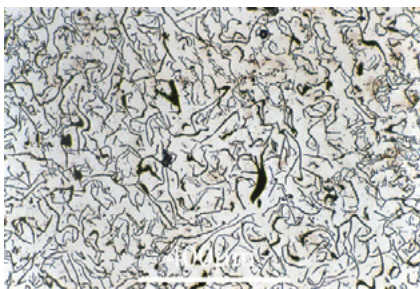
金口的球狀石墨鑄鐵閥門採用 JIS FCD450-10（按需提供 FCD-S）或 ASTM A536-65-45-12（按需提供 ASTM A395）球狀石墨鑄鐵材料製成。球狀石墨鑄鐵閥門在市場上的引入歷史相對較短，然而，由於其成本優勢以及廣泛的應用範圍與鑄鋼閥門相當，需求正在穩定增加。

Gray iron, ductile iron and malleable iron are the three kinds of iron used for valve construction. Unlike gray iron, which has thin, flake-like molecular formations, the metallic structures of both ductile and malleable iron contain nodular graphite. (Refer to the microscopic views) This structure provides ductile and malleable iron with mechanical properties which exceed those of gray iron. It almost equals the properties of cast steel, which is an expensive material for industrial valves. Furthermore, their superior castability and machinability help to increase their suitability as a valve material.

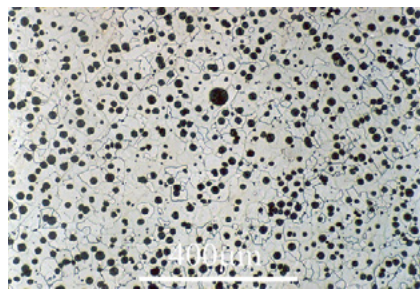
Ductile iron outperforms malleable iron due to its better mechanical characteristics to build valve body, which is a kind of pressure containing device. For example, it has a 20% higher tensile strength and 70 to 80% better elongation. This difference comes from different formation process of nodulated graphite molecules.

Ductile iron also has better abrasive resistance, corrosion resistance and inoxidizability properties than cast steel, so ductile iron castings have wide application in urban construction fields, and in the environments of water, saline water and steam. So, it is suitable for producing valve parts, moreover, ductile iron costs are much lower than stainless steel.

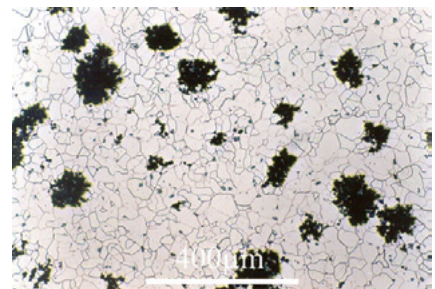
KING GATE ductile iron valves are made of JIS FCD450-10 (FCD-S on request) or ASTM A536-65-45-12 (ASTM A395 on request) ductile iron. The history of the introduction of ductile iron valves on the market is rather short, however, the demand is steadily increasing as a result of their economic advantage as well as the fact that their wide range of service applications is comparable with cast steel valves.



灰口鑄鐵
Gray iron



球狀石墨鑄鐵
Ductile iron



可鍛鑄鐵
Malleable iron

JIS G 5502: 2001 Grade FCD450-10 Spheroidal graphite iron castings

1. Chemical composition :

Carbon (C) : 2.50% minimum
Phosphor (Mg) : 0.09% maximum
Silicon (S) : 0.02% maximum

2. Mechanical properties :

Tensile strength : 450N/mm² minimum
Yield strength : 280N/mm² minimum
Elongation : 10% minimum
Brinell hardness : 140 to 210

- ◆ 金口使用 DIAS 和 sinto 立式、臥式全自動造模機生產高品質的球狀石墨鑄鐵閥門鑄件。
- ◆ KING GATE utilizes DIAS and Sinto vertical and horizontal fully automatic molding machines to manufacture high-quality ductile iron valve components.



- ◆ 配備液壓夾具的水平加工中心，確保穩定的加工尺寸，保證加工精度。
- ◆ Horizontal Machining Center with hydraulic jig fixture, ensuring machining precision for stable machining dimension.



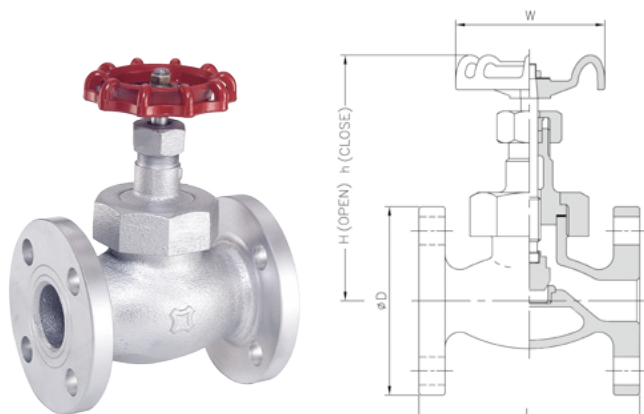
金口球狀石墨鑄鐵閥門設計規格 KING GATE ductile iron valves Design Specification:

- Design and manufacture acc. to JV(Japan Valve Manufacturer's Association Standard)
 - JV4-2 : Cast iron valves-Blackheart malleable iron and spheroidal graphite (ductile) iron small sized valves. 1991
 - JV4-3 : Cast iron valves-Blackheart malleable iron and spheroidal graphite (ductile) iron valves. 1991
 - JV4-4 : Cast iron valves-Special grade blackheart malleable iron and spheroidal graphite (ductile) iron small sized valves. 1991
 - JV4-5 : Cast iron valves-Special grade blackheart malleable iron and spheroidal graphite (ductile) iron valves. 1991
- Shell wall thickness acc. JIS 2031: Gray cast iron valves 2013
- Face to face dimensions acc. to JIS B 2011: Bronze, gate, globe, angle, and check valves 2010
JIS B 2002: Face-to-face and end-to-end dimensions of valves 1987
- End to end dimensions acc. to JIS B 2051: Malleable iron and ductile iron valves 2013
- Flanges dimensions acc. to JIS B 2239: Cast iron pipe flange 2013
- Thread dimensions acc. to JIS B 0203: Taper pipe thread. 1999
- Test pressure Dimensional inspection acc. to JIS B2003: General rules for inspection of valves 2013

球狀石墨鑄鐵球型閥

Ductile Iron Globe Valve

FIG.F39D JIS 10K



Features

- Inside Screw Rising Stem
- Union Bonnet
- Tapered Plug Type Disc
- Flanged Ends
- Graphite Packing
- Stainless steel Stem, Disc and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	108	117	127	140	165	203
H	142	144	160	190	201	250
h	126	129	146	172	181	230
ØD	95	100	127	140	165	203
W	70	80	90	100	125	140

單位 Unit: 公釐 mm

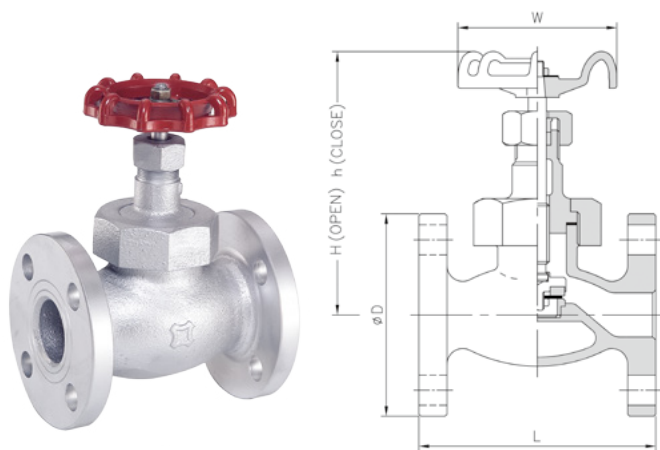
序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	FCD 450-10
2	閥蓋	BONNET	FCD 450-10
3	閥門	DISC	SUS 410
4	閥桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格南	GLAND	C3604 (PLATED W/Cr.)
7	迫緊	PACKING	GRAPHITE
8	墊片	GASKET	NON-ASBESTOS
9	墊料螺帽	PACKING NUT	FCD 450-10
10	連結螺帽	CONNECTING NUT	FCD 450-10
11	手輪	HANDWHEEL	ALUMINIUM
12	銘牌	NAME PLATE	ALUMINIUM
13	手輪螺帽	HANDWHEEL NUT	STEEL

Working pressure marking 標稱壓力	10 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵球型閥

Ductile Iron Globe Valve

FIG.F39D-G JIS 10K



Features

- Inside Screw Rising Stem
- Union Bonnet
- PTFE Disc
- Flanged Ends
- Graphite Packing
- Stainless steel Stem, Disc Holder and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	108	117	127	140	165	203
H	142	144	159	180	200	224
h	124	126	141	160	176	199
ØD	95	100	125	135	140	155
W	70	80	90	100	125	140

單位 Unit: 公釐 mm

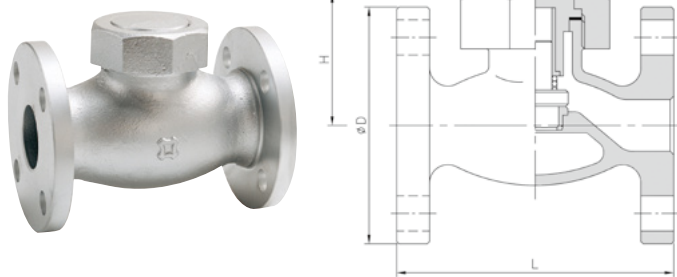
序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	FCD 450-10
2	閥蓋	BONNET	FCD 450-10
3	閥門支架	DISC HOLDER	SUS 410
4	閥桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格南	GLAND	C3604 (PLATED W/Cr.)
7	迫緊	PACKING	GRAPHITE
8	墊片	GASKET	NON-ASBESTOS
9	迫緊螺帽	PACKING NUT	FCD 450-10
10	連結螺帽	CONNECTING NUT	FCD 450-10
11	閥門	DISC	PTFE+15%G.F.T
12	手輪	HANDWHEEL	ALUMINIUM
13	銘牌	NAME PLATE	ALUMINIUM
14	手輪螺帽	HANDWHEEL NUT	STEEL

Working pressure marking 標稱壓力	10 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵立式逆止閥

Ductile Iron Lift Check Valve

FIG.F69D JIS 10K



Features

- Lift Type Disc Design
- Union Cap
- Flanged Ends
- Stainless Steel Disc and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	108	117	127	140	165	203
H	53	55	63	70	75	87
ØD	95	100	125	135	140	155

單位 Unit: 公釐 mm

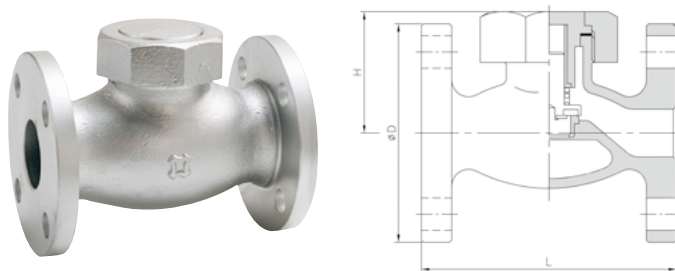
序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	FCD 450-10
2	閥蓋	BONNET	1/2"~3/4" SUS 410
			1"~2" FCD 450-10
3	閥門	DISC	SUS 410
4	閥體座環	BODY SEAT RING	SUS 410
5	連結螺帽	CONNECTING NUT	FCD 450-10
6	閥蓋襯套	BONNET RING	SUS 410
7	墊片	GASKET	NON-ASBESTOS

Working pressure marking 標稱壓力	10 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam,Air,Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵立式逆止閥

Ductile Iron Lift Check Valve

FIG.F69D-G JIS 10K



Features

- Lift Type Disc Design
- Union Cap
- Flanged Ends
- Viton Disc
- Stainless Steel Disc Holder and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	108	117	127	140	165	203
H	53	55	63	70	75	87
ØD	95	100	125	135	140	155

單位 Unit: 公釐 mm

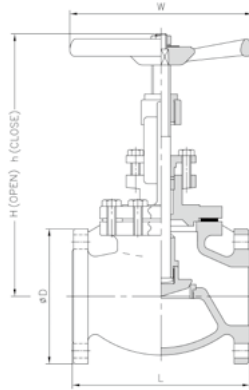
序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	FCD 450-10
2	閥蓋	BONNET	1/2"~3/4" SUS 410
			1"~2" FCD 450-10
3	閥門	DISC	VITON
4	閥門支架	DISC HOLDER	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	連結螺帽	CONNECTING NUT	FCD 450-10
7	墊片	GASKET	NON-ASBESTOS
8	彈簧	SPRING	SUS 304
9	閥蓋襯套	BONNET RING	SUS 410
10	平華司	WASHER	SUS 410

Working pressure marking 標稱壓力	10 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam,Air,Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵球型閥

Ductile Iron Globe Valve

FIG.F39D-BB JIS 10K/KGMC 16K



Features

- Outside Screw and Yoke(OS&Y)
- Bolted Bonnet
- Tapered Plug Type Disc
- Flanged Ends
- Graphite Packing
- Stainless steel Stem, Disc and Seat Ring
- JV 4-3

詳細尺寸 Dimension

規格	2-1/2"	3"	4"	5"	6"
Size	65	80	100	125	150
L	216	241	292	357	406
H	341	378	396	467	536
h	307	334	356	400	461
ØD	175	185	210	250	280
W	224	250	300	315	360

單位 Unit: 公釐 mm

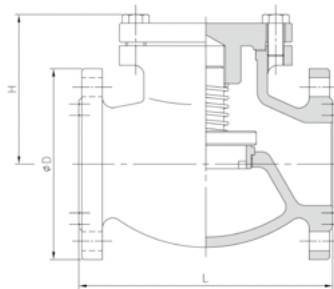
序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	FCD 450-10
2	閥蓋	BONNET	FCD 450-10
3	閥門	DISC	SUS 410
4	閥桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格南	GLAND	FCD 450-10
7	迫緊	PACKING	GRAPHITE
8	墊片	GASKET	NON-ASBESTOS
9	手輪	HANDWHEEL	FCD 450-10
10	襯套	SCREWED BUSH	C3604

Working pressure marking 標稱壓力	16 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵立式逆止閥

Ductile Iron Lift Check Valve

FIG.F69D-BC JIS 10K/KGMC 16K



Features

- Lift Type Disc Design
- Bolted Cap
- Flanged Ends
- Stainless Steel Disc and Seat Ring
- JV 4-3

詳細尺寸 Dimension

規格	2-1/2"	3"	4"	5"	6"
Size	65	80	100	125	150
L	216	241	292	356	406
H	123	140	170	260	280
ØD	175	185	210	250	280

單位 Unit: 公釐 mm

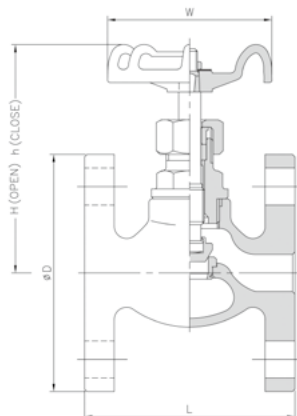
序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	FCD 450-10
2	閥蓋	CAP	FCD 450-10
3	閥門	DISC	SUS 410
4	閥體座環	BODY SEAT RING	SUS 410
5	彈簧	SPRING	SUS 304
6	閥蓋襯套	BONNET RING	SUS 410
7	墊片	GASKET	NON-ASBESTOS

Working pressure marking 標稱壓力	16 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵球型閥

Ductile Iron Globe Valve

FIG.F37D JIS 10K



Features

- Inside Screw Rising Stem
- Screwed Bonnet
- Tapered Plug Type Disc
- Flanged Ends
- Graphite Packing
- Stainless Steel Stem, Disc and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	85	95	110	130	150	180
H	99	108	133	149	161	195
h	94	100	121	137	150	176
ØD	95	100	125	135	140	155
W	63	70	80	100	100	125

單位 Unit: 公釐 mm

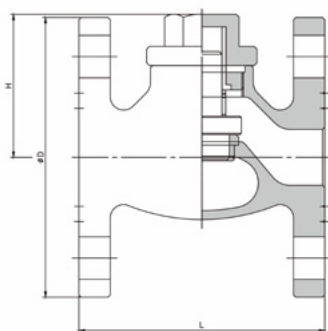
序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	FCD 450-10
2	閥蓋	BONNET	FCD 450-10
3	閥門	DISC	SUS 410
4	閥桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格蘭	GLAND	C3604(PLATED W/Cr)
7	迫緊	PACKING	GRAPHITE
8	迫緊螺帽	PACKING NUT	FCD 450-10
9	手輪	HANDWHEEL	ALUMINIUM
10	銘牌	NAME PLATE	ALUMINIUM
11	手輪螺帽	HANDWHEEL NUT	STEEL

Working pressure marking 標稱壓力	10 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵立式逆止閥

Ductile Iron Lift Check Valve

FIG.F67D JIS 10K



Features

- Lift Type Disc Design
- Screwed Cap
- Flanged Ends
- Stainless Steel Disc and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	85	95	110	130	150	180
H	99	108	133	149	161	195
ØD	95	100	125	135	140	155

單位 Unit: 公釐 mm

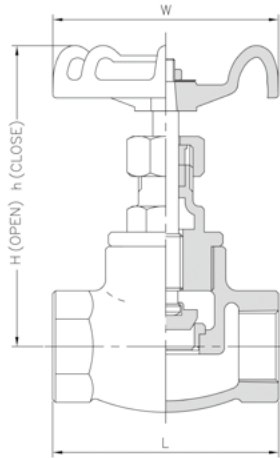
序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	FCD 450-10
2	閥蓋	CAP	1/2"~3/4" SUS 410
			1"~2" FCD 450-10
3	閥門	DISC	SUS 410
4	閥體座環	BODY SEAT RING	SUS 410
5	彈簧	SPRING	SUS 304
6	閥蓋襯套	BONNET RING	SUS 410

Working pressure marking 標稱壓力	10 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵球型閥

Ductile Iron Globe Valve

FIG.39D JIS 10K/KGMC 16K



Features

- Inside Screw Rising Stem
- Screwed Bonnet
- Tapered Plug Type Disc
- Threaded Ends
- Graphite Packing
- Stainless Steel Stem, Disc and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	10	15	20	25	32	40	50
L	65	65	80	90	105	120	140
H	99	99	111	127	149	161	192
h	94	93	101	118	137	149	173
W	63	63	70	80	100	100	125

單位 Unit: 公釐 mm

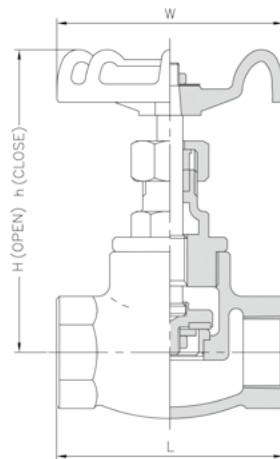
序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	FCD 450-10
3	閥 門	DISC	SUS 410
4	閥 桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格 南	GLAND	C3604 (PLATED W/Cr.)
7	迫 緊	PACKING	GRAPHITE
8	迫緊螺帽	PACKING NUT	FCD 450-10
9	手 輪	HANDWHEEL	ALUMINIUM
10	銘 牌	NAME PLATE	ALUMINIUM
11	手輪螺帽	HANDWHEEL NUT	STEEL

Working pressure marking 標 稱 壓 力	16 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵球型閥

Ductile Iron Globe Valve

FIG.39D-G JIS 10K/KGMC 16K



Features

- Inside Screw Rising Stem
- Screwed Bonnet
- Renewable PTFE Disc
- Threaded Ends
- Graphite Packing
- Stainless steel Stem, Disc Holder and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	10	15	20	25	32	40	50
L	65	65	80	90	105	120	140
H	99	99	111	127	149	161	192
h	94	93	101	118	137	149	173
W	63	63	70	80	100	100	125

單位 Unit: 公釐 mm

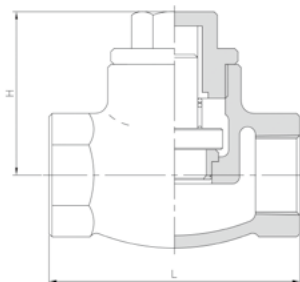
序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	FCD 450-10
3	閥 門	DISC	PTFE+15%G.F.T
4	閥 桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格 南	GLAND	C3604 (PLATED W/Cr.)
7	迫 緊	PACKING	GRAPHITE
8	閥門支柱	DISC HOLDER	SUS 410
9	迫緊螺帽	PACKING NUT	FCD 450-10
10	手 輪	HANDWHEEL	ALUMINIUM
11	銘 牌	NAME PLATE	ALUMINIUM
12	手輪螺帽	HANDWHEEL NUT	STEEL

Working pressure marking 標 稱 壓 力	16 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵立式逆止閥

Ductile Iron Lift Check Valve

FIG.69D JIS 10K/KGMC 16K



Features

- Lift Type Disc Design
- Screwed Cap
- Threaded Ends
- Stainless Steel Disc and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	10	15	20	25	32	40	50
L	65	65	80	90	105	120	140
H	45	45	50	52	64	75	86

單位 Unit: 公釐 mm

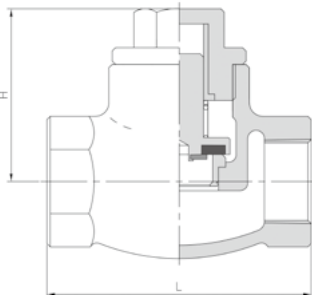
序號 NO.	零件	PART	材 質 MATERIAL	
1	閥 體	BODY	FCD 450-10	
2	閥 蓋	CAP	1/2"~3/4"	SUS 410
			1"~2"	FCD 450-10
3	閥 門	DISC	SUS 410	
4	閥體座環	BODY SEAT RING	SUS 410	
5	彈 簧	SPRING	SUS 304	
6	閥蓋襯套	BONNET RING	SUS 410	

Working pressure marking 標 稱 壓 力	16 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam,Air,Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵立式逆止閥

Ductile Iron Lift Check Valve

FIG.69D-G JIS 10K/KGMC 16K



Features

- Lift Type Disc Design
- Screwed Cap
- Viton Disc
- Threaded Ends
- Stainless Steel Disc Holder and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	10	15	20	25	32	40	50
L	65	65	80	90	105	120	140
H	45	45	50	52	64	75	86

單位 Unit: 公釐 mm

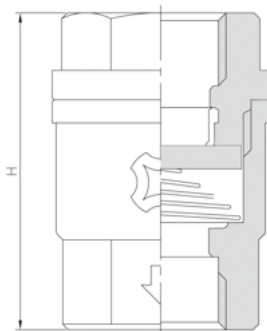
序號 NO.	零件	PART	材 質 MATERIAL	
1	閥 體	BODY	FCD 450-10	
2	閥 蓋	CAP	1/2"~3/4"	SUS 410
			1"~2"	FCD 450-10
3	閥 門	DISC	VITON	
4	閥門支架	DISC HOLDER	SUS 410	
5	閥體座環	BODY SEAT RING	SUS 410	
6	彈 簧	SPRING	SUS 304	
7	閥蓋襯套	BONNET RING	SUS 410	

Working pressure marking 標 稱 壓 力	16 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam,Air,Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵中間逆止閥

Ductile Iron Vertical Check Valve

FIG.695D JIS 10K/KGMC 16K



Features

- Spring Loaded Disc Type
- Thread Ends
- Stainless Steel Disc and Seat Ring

序號 NO.	零 件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	FCD 450-10
3	閥 門	DISC	SUS 410
4	閥 座	SEAT	SUS 410
5	彈 簧	SPRING	SUS 304

Working pressure marking 標 稱 壓 力	16 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

詳細尺寸 Dimension

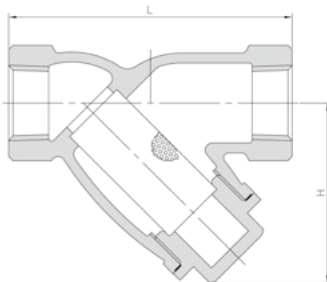
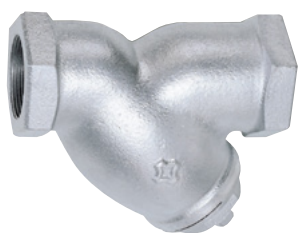
單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
H	63	74	80	93	103	113

球狀石墨鑄鐵Y型過濾器

Ductile Iron Y-Strainer

FIG.76D JIS-16K



Features

- Y-Pattern Body Design
- Perforated Stainless Steel Screen
- Screwed Cap
- Threaded Ends

序號 NO.	零 件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	CAP	FCD 450-10
3	墊 片	GASKET	NON-ASBESTOS
4	濾 網	SCREEN	SUS 304
5	堵 頭	PLUG	SUS 304

Working pressure marking 標 稱 壓 力	16 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	22 kgf/cm ²	Shell Test Pressure 閥體測試壓力	33 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	20 kgf/cm ²		

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	85	100	115	135	150	180
H	62	71	80	91	104	119

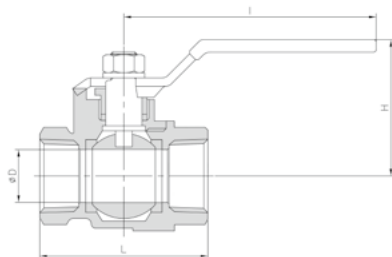
單位 Unit: 公釐 mm

d	A	B
1/2"~2"	1.5	2.5

球狀石墨鑄鐵球塞閥

Ductile Iron Ball Valve

FIG.16D JIS 10K/KGMC 16K



Features

- 2-Piece Body
- Threaded Ends
- Solid Ball
- Full Port

詳細尺寸 Dimension

規格	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	8	10	15	20	25	32	40	50
L	48	48	52	61	74	85	93	112
H	37	37	39	48	54	64	69	79
I	88	88	88	123	133	137	137	160
D	10	10	12.7	19	25	31.8	38	50

單位 Unit: 公釐 mm

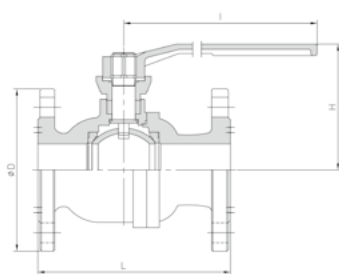
序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	FCD 450-10
2	閥蓋	BONNET	FCD 450-10
3	閥球	BALL	C3604(PLATED W/Cr.)/S.S.304
4	閥桿	STEM	C3604(PLATED W/Cr.)/S.S.304
5	球墊	BALL SEAT	PTFE(25% CARBON)
6	迫緊	PACKING	GRAPHITE
7	格南	GLAND	C3604
8	把手	LEVER	SUS 304

Working pressure marking 標稱壓力	28 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	20 kgf/cm ²	Shell (HYD.) 閥體 (水壓)	20 kgf/cm ²
steam,Air,Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat(AIR) 閥座 (氣壓)	6 kgf/cm ²

球狀石墨鑄鐵球塞閥

Ductile Iron Ball Valve

FIG.FK16D JIS 20K



Features

- 2-Piece Body
- Flanged Ends
- Solid Ball
- Full Port

詳細尺寸 Dimension

規格	SIZE	L	H	I	ØD
2"	50	193	120	221	155

單位 Unit: 公釐 mm

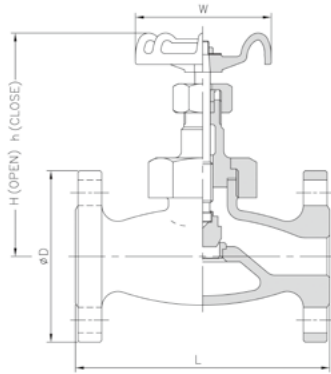
序號 NO.	零件	PART	材質 MATERIAL
1	閥體	BODY	FCD 450-10
2	閥蓋	BONNET	FCD 450-10
3	閥球	BALL	C3604(PLATED W/Cr.)/S.S. 304
4	閥桿	STEM	C3604(PLATED W/Cr.)/S.S. 304
5	球墊	BALL SEAT	PTFE(25% CARBON)
6	格南	GLAND	FCD 450-10
7	迫緊	PACKING	GRAPHITE
8	墊片	GASKET	NON-ASBESTOS
9	把手	LEVER	FC200

Working pressure marking 標稱壓力	20 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	28 kgf/cm ²	Shell Test Pressure 閥體測試壓力	44 kgf/cm ²
steam,Air,Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	25 kgf/cm ²	Seat Test Pressure 閥座測試壓力	32 kgf/cm ²

球狀石墨鑄鐵球型閥

Ductile Iron Globe Valve

FIG.FK39D JIS 20K



Features

- Inside Screw Rising Stem
- Union Bonnet
- Tapered Plug Type Disc
- Flanged Ends
- Graphite Packing
- Stainless steel Stem, Disc and Seat Ring
- JV 4-4

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	110	120	130	160	180	230
H	141	141	163	188	200	225
h	126	128	148	171	181	205
ØD	95	100	125	135	140	155
W	70	80	100	110	125	140

單位 Unit: 公釐 mm

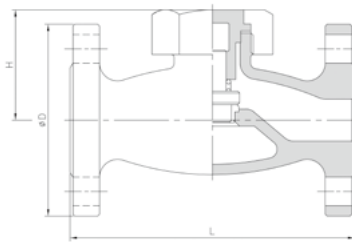
序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	FCD 450-10
3	閥 門	DISC	SUS 410
4	閥 桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格 南	GLAND	C3604 (PLATED W/Cr.)
7	迫 緊	PACKING	GRAPHITE
8	墊 片	GASKET	NON-ASBESTOS
9	迫緊螺帽	PACKING NUT	FCD 450-10
10	連結螺帽	CONNECTING NUT	FCD 450-10
11	手 輪	HANDWHEEL	ALUMINIUM
12	銘 牌	NAME PLATE	ALUMINIUM
13	手輪螺帽	HANDWHEEL NUT	STEEL

Working pressure marking 標 稱 壓 力	20 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	28 kgf/cm ²	Shell Test Pressure 閥體測試壓力	44 kgf/cm ²
steam,Air,Oil,Pulse stream under 220°C 220°C以下之蒸汽、氣體、油、脈動水	25 kgf/cm ²		
steam,Air,Oil,Pulse stream under 300°C 300°C以下之蒸汽、氣體、油、脈動水	23 kgf/cm ²	Seat Test Pressure 閥座測試壓力	32 kgf/cm ²
steam,Air,Oil,Pulse stream under 350°C 350°C以下之蒸汽、氣體、油、脈動水	20 kgf/cm ²		

球狀石墨鑄鐵立式逆止閥

Ductile Iron Lift Check Valve

FIG.FK69D JIS 20K



Features

- Lift Type Disc Design
- Union Cap
- Flanged Ends
- Stainless Steel Disc and Seat Ring
- JV 4-4

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	110	120	130	160	180	230
H	53	56	63	72	78	87
ØD	95	100	125	135	140	155

單位 Unit: 公釐 mm

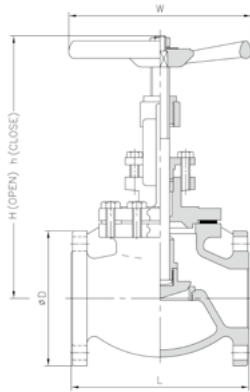
序號 NO.	零件	PART	材 質 MATERIAL	
1	閥 體	BODY	FCD 450-10	
2	閥 蓋	BONNET	1/2"~3/4"	SUS 410
			1"~2"	FCD 450-10
3	閥 門	DISC	SUS 410	
4	閥體座環	BODY SEAT RING	SUS 410	
5	連結螺帽	CONNECTING NUT	FCD 450-10	
6	墊 片	GASKET	NON-ASBESTOS	
7	彈 簧	SPRING	SUS 304	

Working pressure marking 標 稱 壓 力	20 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	28 kgf/cm ²	Shell Test Pressure 閥體測試壓力	44 kgf/cm ²
steam,Air,Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	25 kgf/cm ²		
steam,Air,Oil, Pulse stream under 300°C 300°C以下之 蒸汽、氣體、油、脈動水	23 kgf/cm ²	Seat Test Pressure 閥座測試壓力	32 kgf/cm ²
steam,Air,Oil, Pulse stream under 350°C 350°C以下之 蒸汽、氣體、油、脈動水	20 kgf/cm ²		

球狀石墨鑄鐵球型閥

Ductile Iron Globe Valve

FIG.FK39D-BB JIS 20K



Features

- Outside Screw and Yoke(OS&Y)
- Bolted Bonnet
- Tapered Plug Type Disc
- Flanged Ends
- Graphite Packing
- Stainless steel Stem, Disc and Seat Ring
- JV 4-5

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	FCD 450-10
3	閥 門	DISC	SUS 410
4	閥 桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格 南	GLAND	FCD 450-10
7	迫 緊	PACKING	GRAPHITE
8	墊 片	GASKET	NON-ASBESTOS
9	手 輪	HANDWHEEL	FCD 450-10
10	襯 套	SCREWED BUSH	C3604

Working pressure marking 標 稱 壓 力	20 kgf/cm ²	Hydrostatic test pressure 試 驗 壓 力 (水 壓)	
Non-shock water under 120°C 120°C以下之靜流水	28 kgf/cm ²	Shell Test Pressure 閥體測試壓力	44 kgf/cm ²
steam,Air,Oil,Pulse stream under 220°C 220°C以下之蒸汽、氣體、油、脈動水	23 kgf/cm ²	Seat Test Pressure 閥座測試壓力	32 kgf/cm ²
steam,Air,Oil,Pulse stream under 350°C 350°C以下之蒸汽、氣體、油、脈動水	20 kgf/cm ²		

詳細尺寸 Dimension

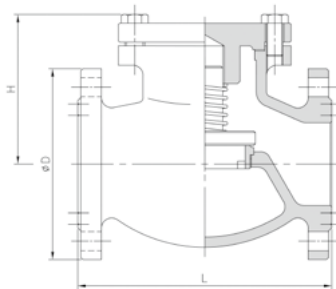
單位 Unit: 公釐 mm

規格	2-1/2"	3"	4"	5"	6"
Size	65	80	100	125	150
L	292	318	356	400	444
H	345	380	385	450	480
h	307	334	356	400	461
ØD	175	200	225	270	305
W	220	220	260	330	330

球狀石墨鑄鐵立式逆止閥

Ductile Iron Lift Check Valve

FIG.FK69D-BC JIS 20K



Features

- Lift Type Disc Design
- Bolted Cap
- Flanged Ends
- Stainless Steel Disc and Seat Ring
- JV 4-5

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	CAP	FCD 450-10
3	閥 門	DISC	SUS 410
4	閥體座環	BODY SEAT RING	SUS 410
5	彈 簧	SPRING	SUS 304
6	閥蓋襯套	BONNET RING	SUS 410
7	墊 片	GASKET	NON-ASBESTOS

Working pressure marking 標 稱 壓 力	20 kgf/cm ²	Hydrostatic test pressure 試 驗 壓 力 (水 壓)	
Non-shock water under 120°C 120°C以下之靜流水	28 kgf/cm ²	Shell Test Pressure 閥體測試壓力	44 kgf/cm ²
steam,Air,Oil,Pulse stream under 220°C 220°C以下之蒸汽、氣體、油、脈動水	23 kgf/cm ²	Seat Test Pressure 閥座測試壓力	32 kgf/cm ²
steam,Air,Oil,Pulse stream under 350°C 350°C以下之蒸汽、氣體、油、脈動水	20 kgf/cm ²		

詳細尺寸 Dimension

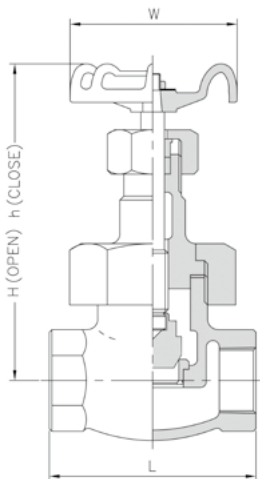
單位 Unit: 公釐 mm

規格	2-1/2"	3"	4"	5"	6"
Size	65	80	100	125	150
L	292	318	356	400	444
H	125	140	150	175	190
ØD	175	200	225	270	305

球狀石墨鑄鐵球型閥

Ductile Iron Globe Valve

FIG.U39D JIS 20K



Features

- Inside Screw Rising Stem
- Union Bonnet
- Tapered Plug Type Disc
- Threaded Ends
- Graphite Packing
- Stainless steel Stem, Disc and Seat Ring
- JV 4-4

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	78	91	105	122	135	160
H	142	142	153	178	197	226
h	127	130	145	159	178	205
W	70	80	100	100	125	140

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	FCD 450-10
3	閥 門	DISC	SUS 410
4	閥 桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格 南	GLAND	C3604 (PLATED W/Cr.)
7	迫 緊	PACKING	GRAPHITE
8	迫緊螺帽	PACKING NUT	FCD 450-10
9	連結螺帽	CONNECTING NUT	FCD 450-10
10	墊 片	GASKET	NON-ASBESTOS
11	手 輪	HANDWHEEL	ALUMINIUM
12	銘 牌	NAME PLATE	ALUMINIUM
13	手輪螺帽	HANDWHEEL NUT	STEEL

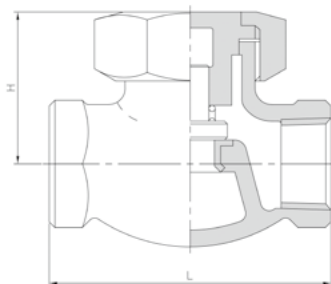
Working pressure marking 標 稱 壓 力	20 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	28 kgf/cm ²	Shell Test Pressure 閥體測試壓力	44 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	23 kgf/cm ²	Seat Test Pressure 閥座測試壓力	32 kgf/cm ²
Steam, Air, Oil, Pulse stream under 350°C 350°C以下之 蒸汽、氣體、油、脈動水	20 kgf/cm ²		

單位 Unit: 公釐 mm

球狀石墨鑄鐵立式逆止閥

Ductile Iron Lift Check Valve

FIG.U69D JIS 20K



Features

- Lift Type Disc Design
- Union Cap
- Threaded Ends
- Stainless Steel Disc and Seat Ring
- JV 4-4

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	78	91	105	122	135	160
H	53	56	57	67	75	91

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	1/2"~3/4" SUS 304
			1"~2" FCD 450-10
3	閥 門	DISC	SUS 410
4	墊 片	GASKET	NON-ASBESTOS
5	閥體座環	BODY SEAT RING	SUS 410
6	彈 簧	SPRING	SUS 304
7	連結螺帽	CONNECTING NUT	FCD 450-10

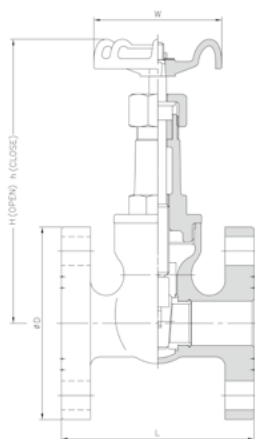
Working pressure marking 標 稱 壓 力	20 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	28 kgf/cm ²	Shell Test Pressure 閥體測試壓力	44 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	23 kgf/cm ²	Seat Test Pressure 閥座測試壓力	32 kgf/cm ²
Steam, Air, Oil, Pulse stream under 350°C 350°C以下之 蒸汽、氣體、油、脈動水	20 kgf/cm ²		

單位 Unit: 公釐 mm

球狀石墨鑄鐵閘門閥

Ductile Iron Gate Valve

FIG.F45D JIS-10K



Features

- Inside Screw Rising Stem
- Graphite Packing
- Screwed Bonnet
- Strainless Steel Stem, Disc and Seat Ring
- Solid Wedge Disc
- JV 4-2
- Flanged Ends

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	90	100	110	120	130	140
H	153	176	203	238	278	319
h	135	153	170	200	232	264
ØD	95	100	125	135	140	155
W	70	80	90	100	125	140

單位 Unit: 公釐 mm

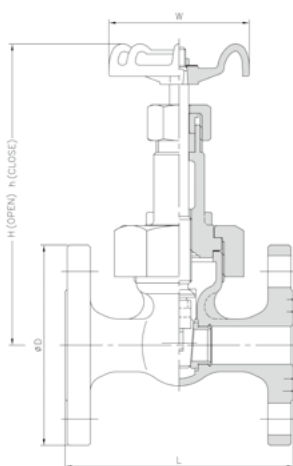
序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	FCD 450-10
3	閥體座環	BODY SEAT RING	SUS 410
4	閥 門	DISC	SCS 1
5	閥 桿	STEM	SUS 410
6	格 南	GLAND	SUS 410
7	迫 緊	PACKING	GRAPHITE
8	墊料螺帽	PACKING NUT	FCD 450-10
9	手 輪	HANDWHEEL	ALUMINIUM
10	銘 牌	NAME PLATE	ALUMINIUM
11	手輪螺帽	HANDWHEEL NUT	STEEL

Working pressure marking 標 稱 壓 力	10 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure(Water) 閥體測試壓力	20 kgf/cm ²
steam,Air,Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure(Air) 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵閘門閥

Ductile Iron Gate Valve

FIG.F47D JIS-16K



Features

- Inside Screw Rising Stem
- Back Seat
- Union Bonnet
- Graphite Packing
- Solid Wedge Disc
- Strainless Steel Stem, Disc and Seat Ring
- Flanged Ends
- JV 4-2

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	108	117	127	140	165	178
H	159	181	212	246	277	331
h	141	158	182	208	235	276
ØD	95	100	125	135	140	155
W	70	80	90	100	125	140

單位 Unit: 公釐 mm

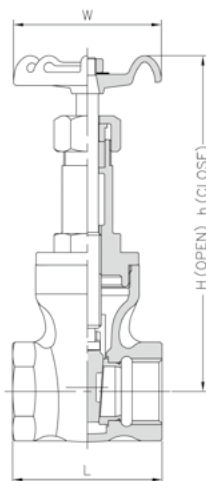
序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	FCD 450-10
3	閥體座環	BODY SEAT RING	SUS 410
4	閥 門	DISC	SCS 1
5	閥 桿	STEM	SUS 410
6	墊 片	GASKET	COPPER(99%Cu)
7	連結螺帽	CONNECTING NUT	FCD 450-10
8	格 南	GLAND	SUS 410
9	迫 緊	PACKING	GRAPHITE
10	墊料螺帽	PACKING NUT	FCD 450-10
11	手 輪	HANDWHEEL	ALUMINIUM
12	銘 牌	NAME PLATE	ALUMINIUM
13	手輪螺帽	HANDWHEEL NUT	STEEL

Working pressure marking 標 稱 壓 力	16 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	22 kgf/cm ²	Shell Test Pressure(Water) 閥體測試壓力	33 kgf/cm ²
steam,Air,Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	20 kgf/cm ²	Seat Test Pressure(Air) 閥座測試壓力	24.2 kgf/cm ²

球狀石墨鑄鐵閘門閥

Ductile Iron Gate Valve

FIG.45D JIS-10K



Features

- Inside Screw Rising Stem
- Screwed Bonnet
- Solid Wedge Disc
- Threaded Ends
- Graphite Packing
- Strainless Steel Stem, Disc and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	61	71	75	86	96	106
H	154	174	203	238	273	322
h	135	152	173	200	232	266
W	70	80	90	100	125	140

單位 Unit: 公釐 mm

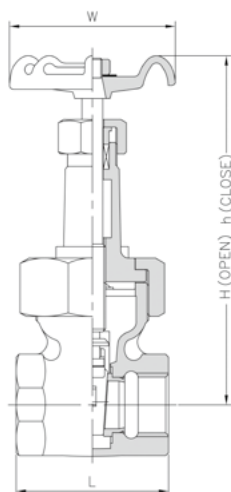
序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	FCD 450-10
3	閥 門	DISC	SCS 1
4	閥 桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格 南	GLAND	SUS 410
7	迫 緊	PACKING	GRAPHITE
8	墊料螺帽	PACKING NUT	FCD 450-10
9	手 輪	HANDWHEEL	ALUMINUM
10	銘 牌	NAME PLATE	ALUMINUM
11	手輪螺帽	HANDWHEEL NUT	STEEL

Working pressure marking 標 稱 壓 力	10 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	14 kgf/cm ²	Shell Test Pressure 閥體測試壓力	20 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	10 kgf/cm ²	Seat Test Pressure 閥座測試壓力	15 kgf/cm ²

球狀石墨鑄鐵閘門閥

Ductile Iron Gate Valve

FIG.U47D JIS-16K



Features

- Inside Screw Rising Stem
- Union Bonnet
- Solid Wedge Disc
- Threaded Ends
- Back Seat
- Graphite Packing
- Strainless Steel Stem, Disc and Seat Ring
- JV 4-2

詳細尺寸 Dimension

規格	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Size	15	20	25	32	40	50
L	65	76	80	91	101	111
H	145	162	183	207	240	273
h	161	185	213	247	288	329
W	70	80	90	100	125	140

單位 Unit: 公釐 mm

序號 NO.	零件	PART	材 質 MATERIAL
1	閥 體	BODY	FCD 450-10
2	閥 蓋	BONNET	FCD 450-10
3	閥 門	DISC	SCS 1
4	閥 桿	STEM	SUS 410
5	閥體座環	BODY SEAT RING	SUS 410
6	格 南	GLAND	SUS 410
7	迫 緊	PACKING	GRAPHITE
8	墊料螺帽	PACKING NUT	FCD 450-10
9	連結螺帽	CONNECTING NUT	FCD 450-10
10	止 洩 環	GASKET	COPPER(99%CU)
11	手 輪	HANDWHEEL	ALUMINUM
12	銘 牌	NAME PLATE	ALUMINUM
13	手輪螺帽	HANDWHEEL NUT	STEEL

Working pressure marking 標 稱 壓 力	16 kgf/cm ²	Hydrostatic test pressure 試驗壓力 (水壓)	
Non-shock water under 120°C 120°C以下之靜流水	22 kgf/cm ²	Shell Test Pressure 閥體測試壓力	33 kgf/cm ²
steam, Air, Oil, Pulse stream under 220°C 220°C以下之 蒸汽、氣體、油、脈動水	20 kgf/cm ²	Seat Test Pressure 閥座測試壓力	24.2 kgf/cm ²

金口伸縮囊密封型閥門系列 KING GATE bellows valves are :

- 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。
- 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

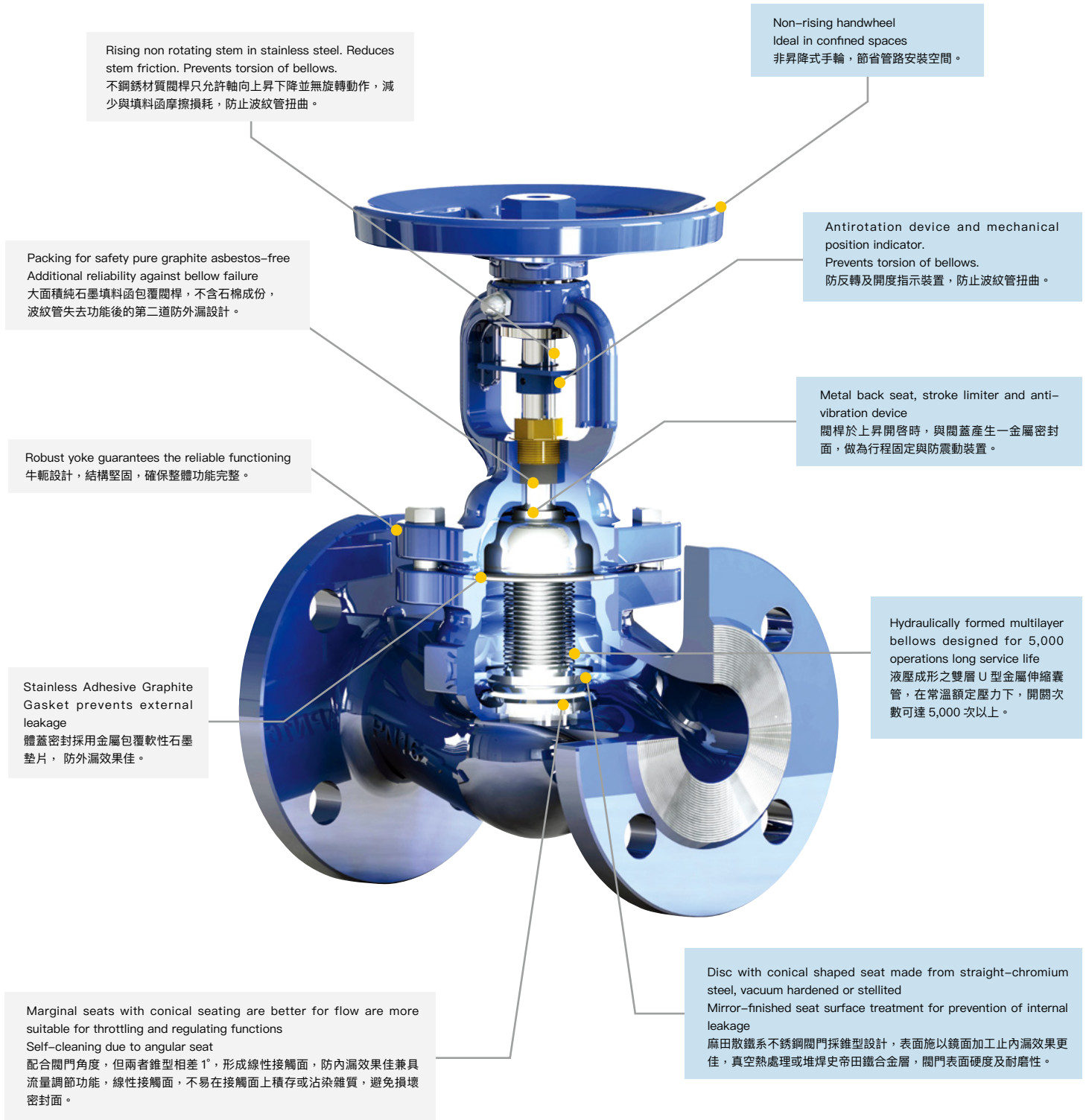
業別 Field	適用場所 Applicable plant	適用流體 Applicable fluid
石化工業 Petrochemical industry	各型紡織工業（對苯二甲酸）、合成橡膠、石油煉製 Various textile plants (terephthalic acid acid), synthetic rubber plant, petroleum refinery	蒸汽、氨氣、氯氣、氧氣、熱媒、乙烯 Steam, ammonia, chlorine gas, hydrogen, Dowtherm, ethylene
光電產業 Electronics industry	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、氬氣 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 General Feature of Bellows valve:

- 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氬氣測漏檢驗。
- 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。
- 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 Sensitive Factory Leak Testing Ensures Zero Emissions:

- 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，以氬氣測漏檢驗。
- 洩漏量小於 1×10^{-6} Atm cc/sec。
- 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



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。

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

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。

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。

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

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。

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。

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。

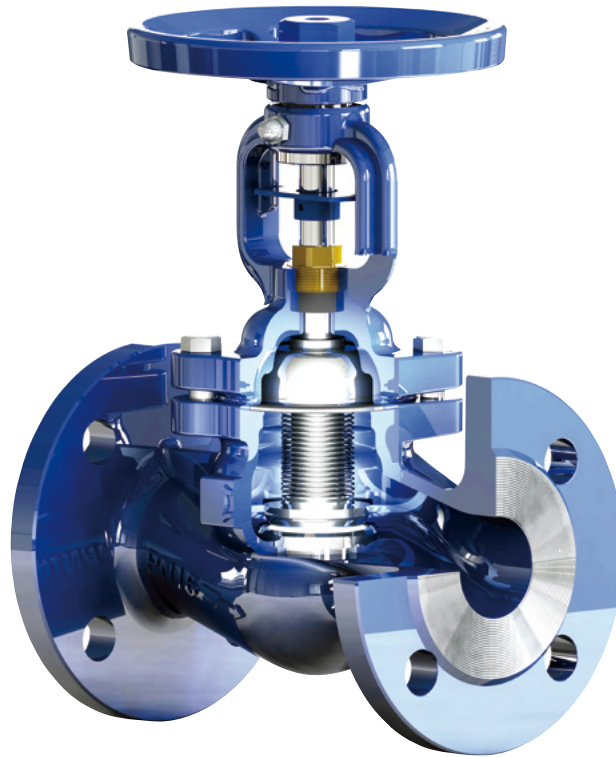
Marginal seats with conical seating are better for flow are more suitable for throttling and regulating functions
Self-cleaning due to angular seat
配合閥門角度，但兩者錐型相差 1°，形成線性接觸面，防內漏效果佳兼具流量調節功能，線性接觸面，不易在接觸面上積存或沾染雜質，避免損壞密封面。

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，閥門表面硬度及耐磨性。

PN16/ PN25球狀石墨鑄鐵伸縮囊密封型球型閥

PN16/ PN25 NODULAR CAST IRON BELLOWS SEALED GLOBE VALVE

FIG.F38D/FD38D



Selection possible applications :

- Industry
 - Powerstations
 - Flue gas purification plant
 - Processing technology
 - Gas supply
 - Vapour facilities
 - Thermal oil applications
 - Recycling facilities
 - Vacuum facilities
 - Ammonia
 - Hot water
 - Heating technology
 - District heating
 - Cooling and freezing systems
 - General plant manufacturing
 - Steam systems
- other applications on request -

Design Description :

- Globe valve in straight way type
- Bolted bonnet
- Outside screw and yoke
- Antirotation device and mechanical position indicator
- Rising stem and non-rising handwheel
- Discs with conical metallic sealing surface
- Metal back seat
- Lubricating Nipple as standard
- Secondary Sealing : gland packing
- Stem sealed with bellows tested for 5,000 full open/close operations at 20°C
- Face to face dimensions acc, to DIN EN558-1 (ISO 5752/1)
- Flanges acc, to DIN EN 1092-2 tpye 21
- Test pressure acc, to DIN 3230 (ISO 5208)
- Maintenance free
- Free from asbestos

Materials :

Body :

Nodular cast iron EN-GJS-400-18-LT, JS 1025

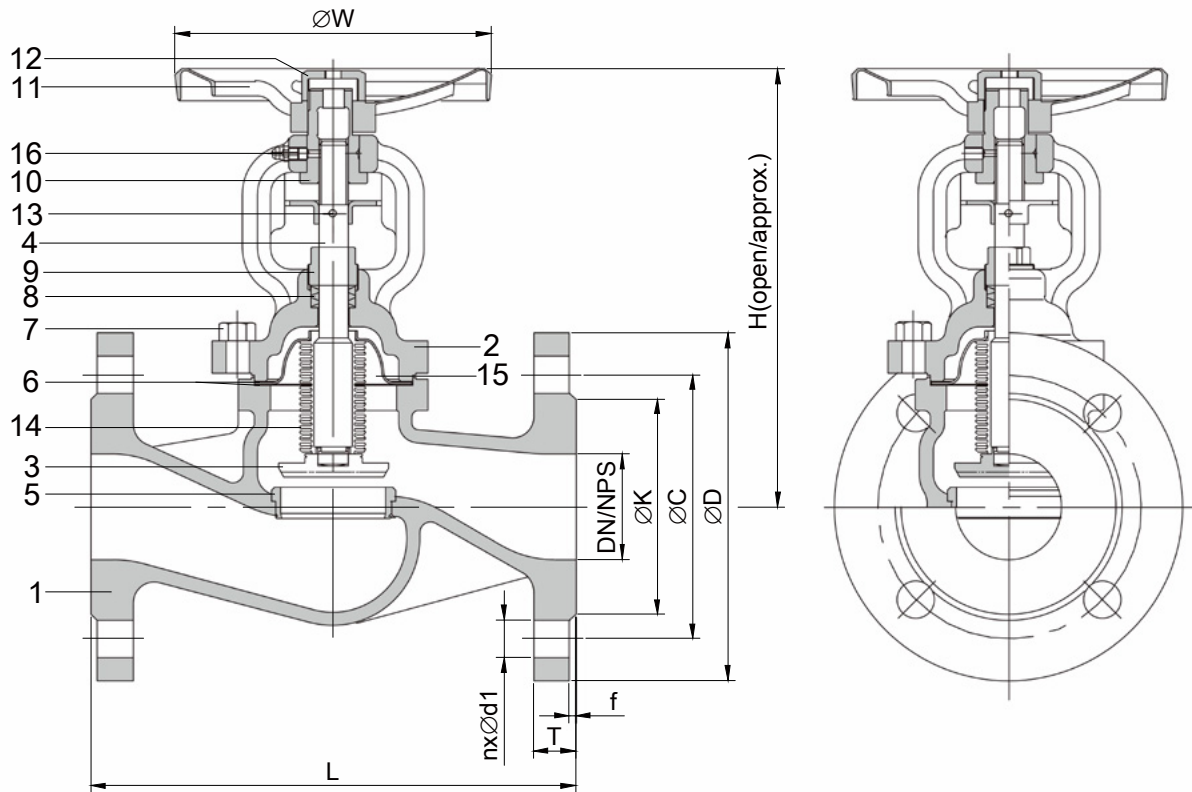
Material(材質)	Body pressure (閥體測試壓力)	Seat leakage (閥座測試壓力)	Pressure Temperature table (溫度耐壓關係表)		
	test in bar with water		-10up t0+120°C		
	Body *	Seat * *	200	250	300
Nodular cast iron EN-GJS-400_18_LT	24	16	16	14.7	12.8
Nodular cast iron EN-GJS-400_18_LT	37.5	25	25	23	20

* DIN 3230 - BQ (ISO 5208)

** DIN 3230 BN/leak rate 1 (ISO 5208/rate A)

PN16/ PN25球狀石墨鑄鐵伸縮囊密封型球型閥

PN16/ PN25 NODULAR CAST IRON BELLOWS SEALED GLOBE VALVE



序號 NO.	零件	PART	材 質 MATERIAL	備 註 Remark
1	閥 體	BODY	EN-GLS-400-18-LT JS1025	
2	閥 蓋	BONNET	EN-GLS-400-18-LT JS1025	
3	閥 球	DISC	X 10 Cr13	HF on request
4	閥 桿	STEM	X 10 Cr13	
5	閥體承座	BODY SEAT	X 10 Cr13	HF on request
6	墊 片	GASKET	GRAPHITE	
7	體蓋螺栓	BONNET BOLT	STEEL	
8	格蘭迫緊	GLAND PACKING	PURE GRAPHITE	
9	格 南	GLAND	BRASS	
10	閥桿螺帽	STEM NUT	BRASS	
11	手 輪	HANDWHEEL	EN-GLS-400-18-LT JS1025	
12	手輪螺帽	HANDWHEEL NUT	EN-GLS-400-18-LT JS1025	
13	位置指示器	POSITION INDICATOR	STEEL	
14	伸 縮 囊	BELLOWS	X 5 CrNi 18 10	
15	伸縮囊法蘭	BELLOWS FLANGE	X 5 CrNi 18 10	
16	注 油 孔	LUBRICATING NIPPLE	X 5 CrNi 18 10	

* Soft disc inserts available for gas or vacuum service

Please note :

1. In accordance with the material designations in force. The designations GG-25 and GGG-40.3 are superseded.
2. For GG-25 the new material number is JL 1014, the name of the material is EN-GJL-250.
3. For GGG-40.3 the new material number is JS 1025, the name of the material is EN-GJS-400-18-LT.

詳細尺寸 Dimension

單位 Unit: 公釐 mm

規格		H	ØW	L	PN16						PN25						KVS VAULE
DN	NPS				ØD	ØC	ØK	nxØd1	T	f	ØD	ØC	ØK	nxØd1	T	f	
15	1/2"	158	125	130	95	65	45	4xØ14	14	2	95	65	45	4xØ14	14	2	4
20	3/4"	158	125	150	105	75	58	4xØ14	16	2	105	75	58	4xØ14	16	2	7
25	1"	158	125	160	115	85	68	4xØ14	16	2	115	85	68	4xØ14	16	2	12
32	1-1/4"	210	150	200	140	100	78	4xØ18	18	2	140	100	78	4xØ18	18	2	12
40	1-1/2"	210	150	200	150	110	88	4xØ18	19	3	150	110	88	4xØ18	19	3	30
50	2"	210	150	230	165	125	102	4xØ18	19	3	165	125	102	4xØ18	19	3	47
65	2-1/2"	266	175	290	185	145	122	4xØ18	19	3	185	145	122	4xØ18	19	3	77
80	3"	266	175	310	200	160	138	8xØ18	19	3	200	160	138	8xØ18	19	3	120
100	4"	350	300	350	220	180	158	8xØ18	19	3	235	190	158	8xØ18	19	3	180
125	5"	358	300	400	250	210	188	8xØ18	19	3	270	220	188	8xØ22	19	3	260
150	6"	395	350	480	285	240	212	8xØ18	19	3	300	250	212	8xØ26	19	3	380
200	8"	530	400	600	340	295	268	12xØ22	20	3	-	-	-	-	-	-	725

球狀石墨鑄鐵伸縮囊密封型球型閥

DUCTILE IRON BELLOWS SEALED GLOBE VALVE

FIG.FJ38D JIS 10K



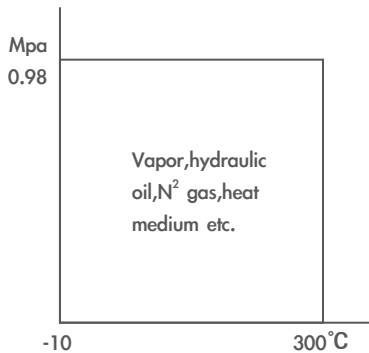
Selection possible applications :

- Industry
 - Powerstations
 - Flue gas purification plant
 - Processing technology
 - Gas supply
 - Vapour facilities
 - Thermal oil applications
 - Recycling facilities
 - Vacuum facilities
 - Ammonia
 - Hot water
 - Heating technology
 - District heating
 - Cooling and freezing systems
 - General plant manufacturing
 - Steam systems
- other applications on request -

Design Description :

- Globe valve in straight way type
- Bolted bonnet
- Outside screw and yoke
- Antirotation device and mechanical position indicator
- Rising stem and non-rising handwheel
- Disc with conical metallic sealing surface
- Metal back seat,safety stuffing box packing
- Lubricating Nipple as standard
- Secondary Sealing : gland packing
- Design and manufacture acc. to JV4-4,JV4-5
- Stem sealed with bellows tested for 5,000 full open/close operations at 20°C
- Face to face dimensions acc,to JIS B 2002
- Flanges acc,to JIS B 2239 10K
- Test pressure Dimensional inspection acc, to JIS B 2003
- Maintenance free
- Free from asbestos,PCB and CFC

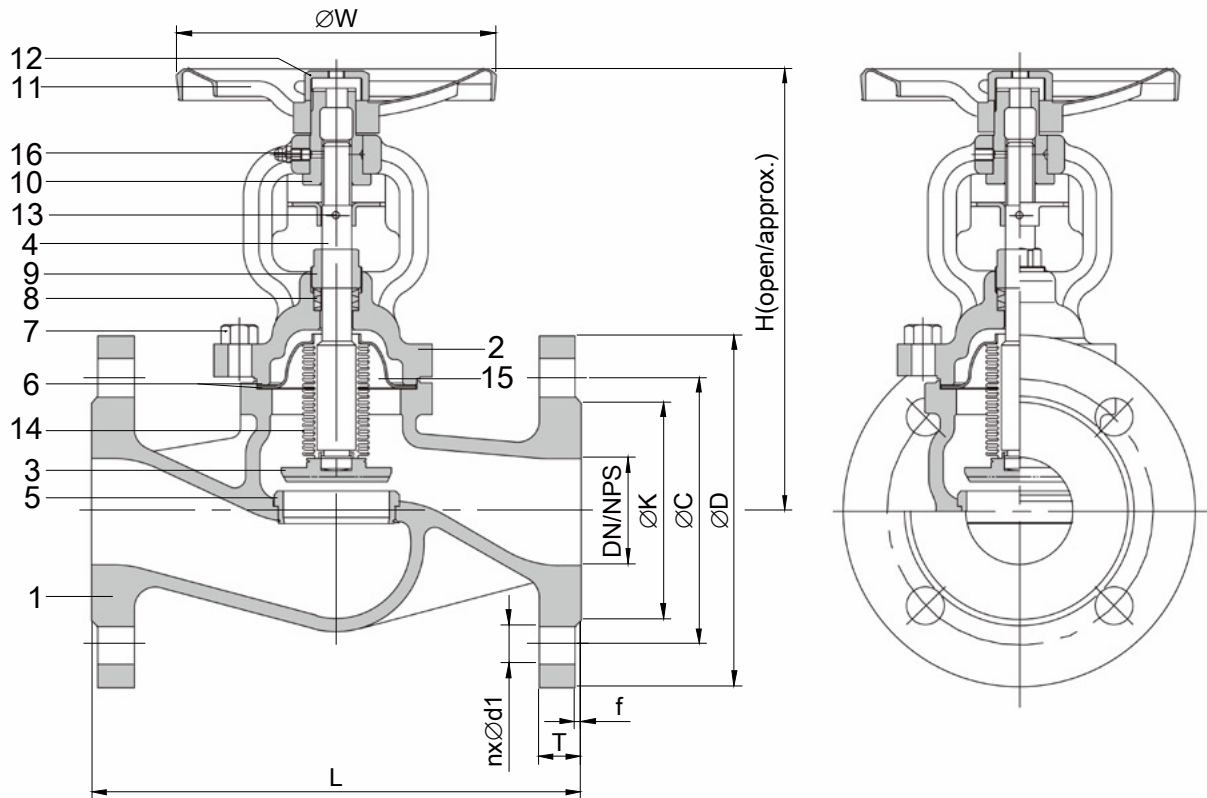
Pressure/Temperature Ratings :



Inspection pressure (壓力測試 - 水壓)	
Body (閥體)	Water pressure 1.47 Mpa
Body seat (閥座)	Water pressure 1.08 Mpa

球狀石墨鑄鐵伸縮囊密封型球型閥

DUCTILE IRON BELLOWS SEALED GLOBE VALVE



序號 NO.	零件	PART	材質 MATERIAL	備註 Remark
1	閥體	BODY	FCD 450-10	FCD.S on request
2	閥蓋	BONNET	FCD 450-10	
3	閥盤	DISC	SUS 410	HF on request
4	閥桿	STEM	SUS 410	
5	閥體承座	BODY SEAT	SUS 410	HF on request
6	墊片	GASKET	GRAPHITE	
7	體蓋螺栓	BONNET BOLT	SS 400	
8	格蘭迫緊	GLAND PACKING	GRAPHITE	
9	格蘭	GLAND	CS3604	
10	閥桿螺帽	STEM NUT	CS3604	
11	手輪	HANDWHEEL	FCD 450-10	
12	手輪螺帽	HANDWHEEL NUT	FCD 450-10	
13	位置指示器	POSITION INDICATOR	SS 400	
14	伸縮囊	BELLOWS	SUS 304	
15	伸縮囊法蘭	BELLOWS FLANGE	SUS 304	
16	注油孔	LUBRICATING NIPPLE	SUS 304	

* Soft disc inserts available for gas or vacuum service

詳細尺寸 Dimension

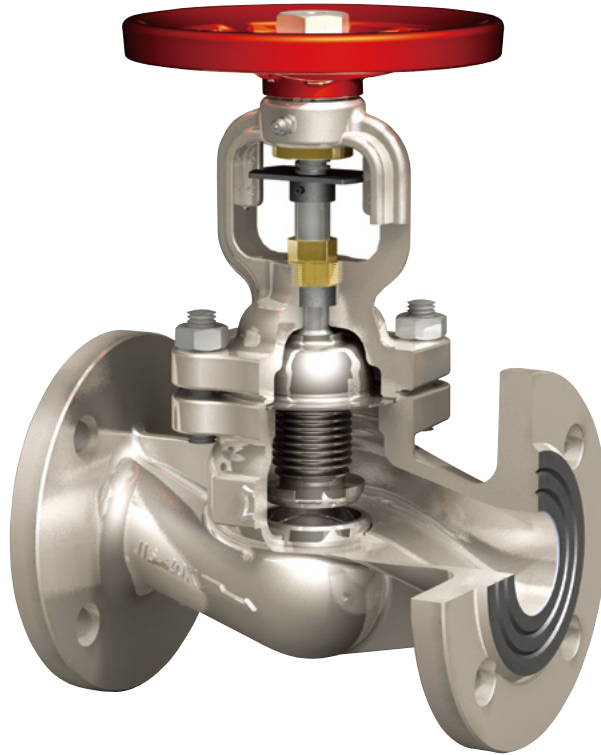
單位 Unit: 公釐 mm

規格		H	ØW	L	JIS 10K					
DN	NPS				ØD	ØC	ØK	nxØd1	T	f
15	1/2"	159	125	108	95	70	51	4xØ15	12	1
20	3/4"	159	125	117	100	75	56	4xØ15	14	1
25	1"	159	125	127	125	90	67	4xØ19	14	1
32	1-1/4"	211	150	140	134	100	76	4xØ19	16	2
40	1-1/2"	211	150	165	140	105	81	4xØ19	16	2
50	2"	211	150	203	155	120	96	4xØ19	16	2
65	2-1/2"	266	175	216	175	140	116	4xØ19	18	2
80	3"	266	175	241	185	150	126	8xØ19	18	2
100	4"	350	300	292	210	175	151	8xØ19	18	2
125	5"	358	300	356	250	210	182	8xØ23	20	2
150	6"	395	350	406	280	240	212	8xØ23	22	2
200	8"	530	400	495	330	290	262	12xØ23	22	2

球狀石墨鑄鐵伸縮囊密封型球型閥

DUCTILE IRON BELLOWS SEALED GLOBE VALVE

FIG.FK38D JIS 20K



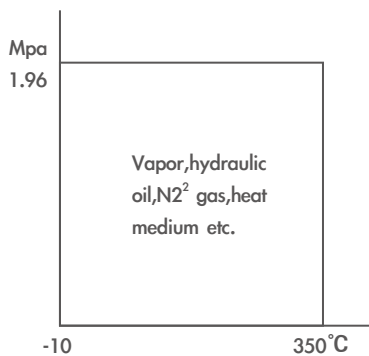
Selection possible applications :

- Industry
 - Powerstations
 - Flue gas purification plant
 - Processing technology
 - Gas supply
 - Vapour facilities
 - Thermal oil applications
 - Recycling facilities
 - Vacuum facilities
 - Ammonia
 - Hot water
 - Heating technology
 - District heating
 - Cooling and freezing systems
 - General plant manufacturing
 - Steam systems
- other applications on request -

Design Description :

- Globe valve in straight way type
- Bolted bonnet
- Outside screw and yoke
- Antirotation device and mechanical position indicator
- Rising stem and non-rising handwheel
- Disc with conical metallic sealing surface
- Metal back seat,safety stuffing box packing
- Lubricating Nipple as standard
- Secondary Sealing : gland packing
- Design and manufacture acc. to JV4-4,JV4-5
- Stem sealed with bellows tested for 5,000 full open/close operations at 20°C
- Face to face dimensions acc,to JIS B 2002
- Flanges acc,to JIS B 2239 20K
- Test pressure Dimensional inspection acc, to JIS B 2003
- Maintenance free
- Free from asbestos,PCB and CFC

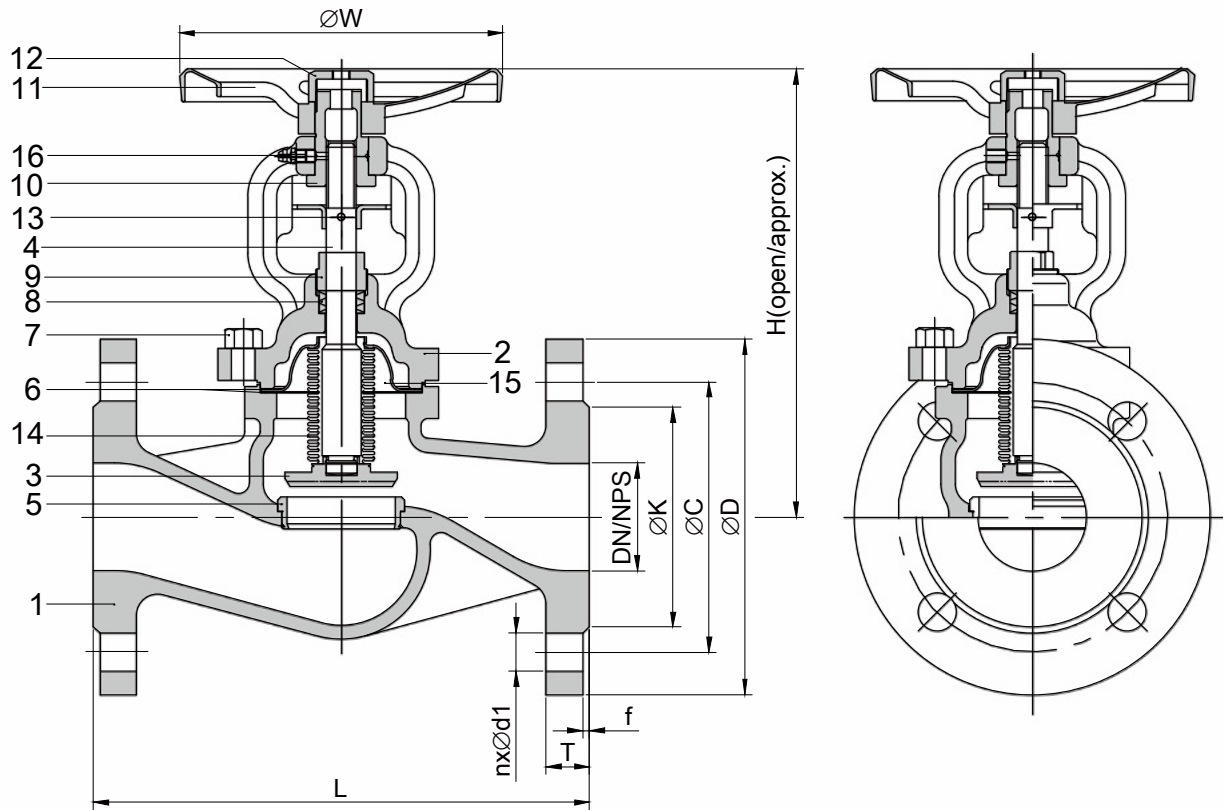
Pressure/Temperature Ratings :



Inspection pressure (壓力測試 - 水壓)	
Body (閥體)	Water pressure 2.94 Mpa
Body seat (閥座)	Water pressure 2.16 Mpa

球狀石墨鑄鐵伸縮囊密封型球型閥

DUCTILE IRON BELLOWS SEALED GLOBE VALVE



序號 NO.	零件	PART	材質 MATERIAL	備註 Remark
1	閥體	BODY	FCD 450-10	FCD.S on request
2	閥蓋	BONNET	FCD 450-10	
3	閥盤	DISC	SUS 410	HF on request
4	閥桿	STEM	SUS 410	
5	閥體承座	BODY SEAT	SUS 410	HF on request
6	墊片	GASKET	GRAPHITE	
7	體蓋螺栓	BONNET BOLT	SS 400	
8	格蘭迫緊	GLAND PACKING	GRAPHITE	
9	格蘭	GLAND	CS3604	
10	閥桿螺帽	STEM NUT	CS3604	
11	手輪	HANDWHEEL	FCD 450-10	
12	手輪螺帽	HANDWHEEL NUT	FCD 450-10	
13	位置指示器	POSITION INDICATOR	SS 400	
14	伸縮囊	BELLOWS	SUS 304	
15	伸縮囊法蘭	BELLOWS FLANGE	SUS 304	
16	注油孔	LUBRICATING NIPPLE	SUS 304	

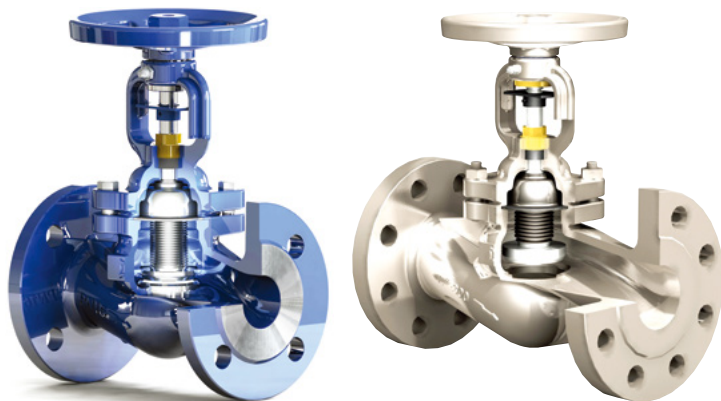
* Soft disc inserts available for gas or vacuum service

詳細尺寸 Dimension

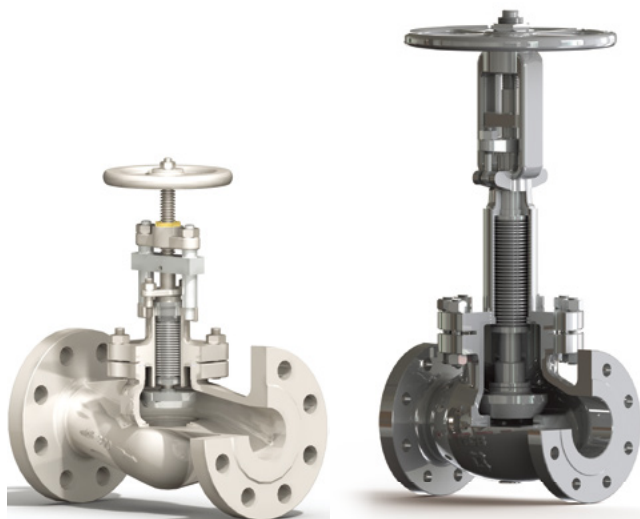
單位 Unit: 公釐 mm

規格		H	ØW	L	JIS 20K					
DN	NPS				ØD	ØC	ØK	nxØd1	T	f
15	1/2"	159	125	110	95	70	51	4xØ15	14	1
20	3/4"	159	125	120	100	75	56	4xØ15	16	1
25	1"	159	125	130	125	90	67	4xØ19	16	1
32	1-1/4"	211	150	160	135	100	76	4xØ19	18	2
40	1-1/2"	211	150	180	140	105	81	4xØ19	18	2
50	2"	211	150	230	155	120	96	8xØ19	18	2
65	2-1/2"	266	175	292	175	140	116	8xØ19	20	2
80	3"	266	175	318	200	160	132	8xØ23	22	2
100	4"	350	300	356	225	185	160	8xØ23	24	2
125	5"	358	300	400	270	225	195	8xØ25	26	2
150	6"	395	350	444	305	260	230	12xØ25	28	2
200	8"	530	400	559	350	305	275	12xØ25	30	2

球型閥系列 Globe valve Series



- 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"



- 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"

閘門閥系列 Gate valve Series



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

鍛造閥系列 Forged Valve Series

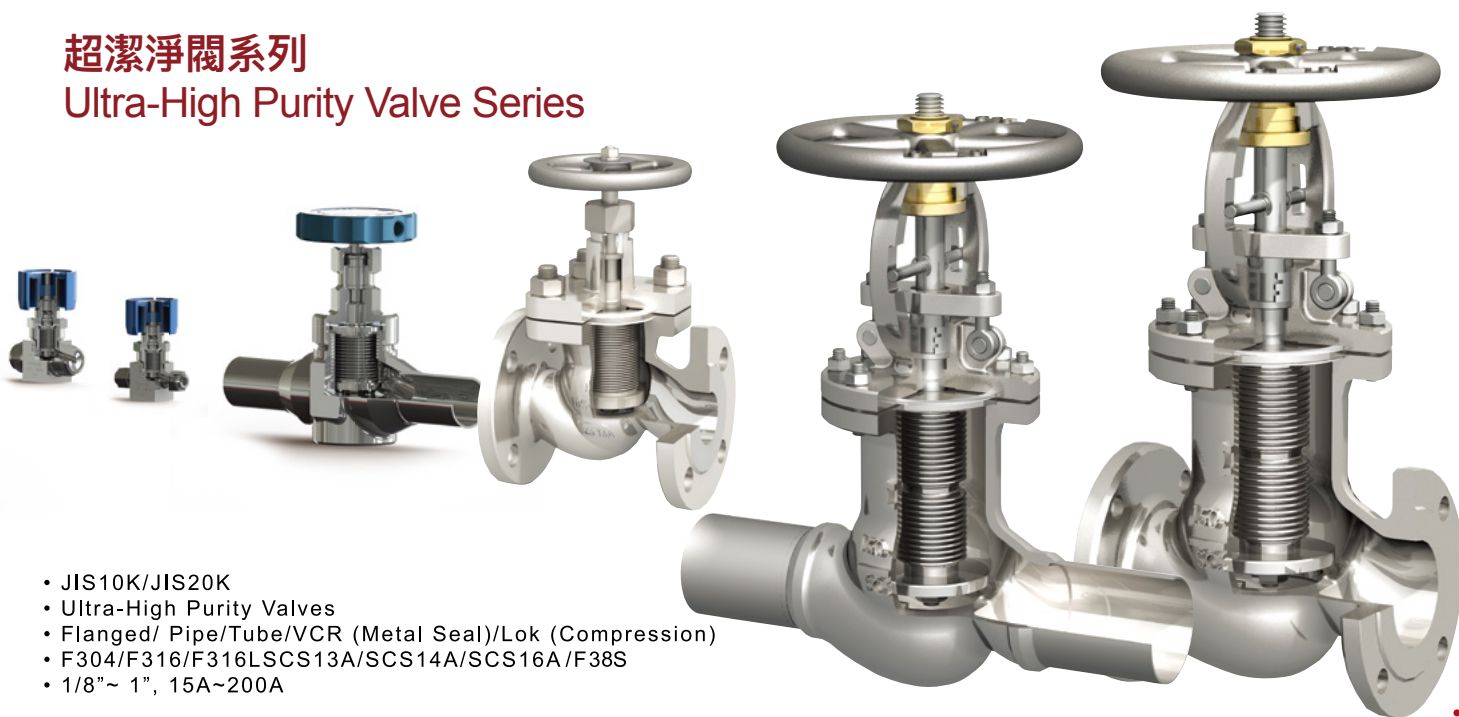


- Class 800/Class 150/Class 300/ Class 600
- Forge Long Bellows Sealed Globe Valve
- Flanged/ Threaded/Socked welded/Butt weld
- A105/F304/F316
- 1/2"~2"



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

超潔淨閥系列 Ultra-High Purity Valve Series



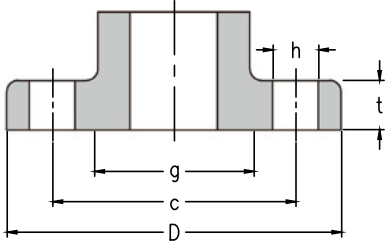
- JIS10K/JIS20K
- Ultra-High Purity Valves
- Flanged/ Pipe/Tube/VCR (Metal Seal)/Lok (Compression)
- F304/F316/F316LSCS13A/SCS14A/SCS16A/F38S
- 1/8"~ 1", 15A~200A



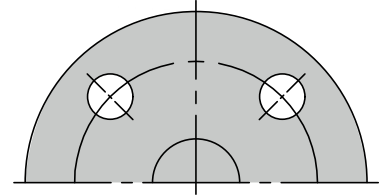
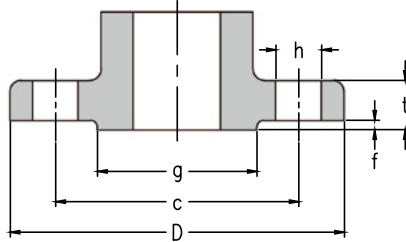
鋼製管法蘭規格

Steel Pipe Flange Dimensions

FF 平面法蘭
FF Flat Faced Flange



RF 凸面法蘭
RF Raised Face Flange



JIS 10K 鋼製管法蘭規格

JIS 10K Steel Pipe Flange Dimensions

JIS B2239-2013

公稱規格 Nominal Size		D	t	f	g	螺栓孔 Bolt Holes			螺絲規格 Bolt Size
公釐 mm	英吋 inch					c	孔數	h	
10	3/8	90	12	1	46	65	4	15	M12
15	1/2	95	12	1	51	70	4	15	M12
20	3/4	100	14	1	56	75	4	15	M12
25	1	125	14	1	67	90	4	19	M16
32	1-1/4	135	16	2	76	100	4	19	M16
40	1-1/2	140	16	2	81	105	4	19	M16
50	2	155	16	2	96	120	4	19	M16
65	2-1/2	175	18	2	116	140	4	19	M16
80	3	185	18	2	126	150	8	19	M16
100	4	210	18	2	151	175	8	19	M16
125	5	250	20	2	182	210	8	23	M20
150	6	280	22	2	212	240	8	23	M20
200	8	330	22	2	262	290	12	23	M20
250	10	400	24	2	324	355	12	25	M22
300	12	445	24	3	368	400	16	25	M22

JIS 16K 鋼製管法蘭規格

JIS 16K Steel Pipe Flange Dimensions

JIS B2239-2013

公稱規格 Nominal Size		D	t	f	g	螺栓孔 Bolt Holes			螺絲規格 Bolt Size
公釐 mm	英吋 inch					c	孔數	h	
10	3/8	90	12	1	46	65	4	15	M12
15	1/2	95	12	1	51	70	4	15	M12
20	3/4	100	14	1	56	75	4	15	M12
25	1	125	14	1	67	90	4	19	M16
32	1-1/4	135	16	2	76	100	4	19	M16
40	1-1/2	140	16	2	81	105	4	19	M16
50	2	155	16	2	96	120	8	19	M16
65	2-1/2	175	18	2	116	140	8	19	M16
80	3	200	20	2	132	160	8	23	M20
100	4	225	22	2	160	185	8	23	M20
125	5	270	22	2	195	225	8	25	M22
150	6	305	24	2	230	260	12	25	M22
200	8	350	26	2	275	305	12	25	M22
250	10	430	28	2	345	380	12	27	M24
300	12	480	30	3	395	430	16	27	M24

JIS 20K 鋼製管法蘭規格

JIS 20K Steel Pipe Flange Dimensions

JIS B2239-2013

公稱規格 Nominal Size		D	t	f	g	螺栓孔 Bolt Holes			螺絲規格 Bolt Size
公釐 mm	英吋 inch					c	孔數	h	
10	3/8	90	14	1	46	65	4	15	M12
15	1/2	95	14	1	51	70	4	15	M12
20	3/4	100	16	1	56	75	4	15	M12
25	1	125	16	1	67	90	4	19	M16
32	1-1/4	135	18	2	76	100	4	19	M16
40	1-1/2	140	18	2	81	105	4	19	M16
50	2	155	18	2	96	120	8	19	M16
65	2-1/2	175	20	2	116	140	8	19	M16
80	3	200	22	2	132	160	8	23	M20
100	4	225	24	2	160	185	8	23	M20
125	5	270	26	2	195	225	8	25	M22
150	6	305	28	2	230	260	12	25	M22
200	8	350	30	2	275	305	12	25	M22
250	10	430	34	2	345	380	12	27	M24
300	12	480	36	3	395	430	16	27	M24

Class 150 鋼製管法蘭規格

Class 150 Steel Pipe Flange Dimensions

ASME B16.5-2020

公稱規格 Nominal Size		D	t	f	g	螺栓孔 Bolt Holes			螺絲規格 Bolt Size
公釐 mm	英吋 inch					c	孔數	h	
15	1/2	89	11	1.6	35	60.5	4	16	1/2
20	3/4	98	12.7	1.6	43	70.0	4	16	1/2
25	1	108	14.3	1.6	51	79.5	4	16	1/2
32	1-1/4	117	15.9	1.6	64	89.0	4	16	1/2
40	1-1/2	127	17.3	1.6	73	98.5	4	16	1/2
50	2	152	19.1	1.6	92	120.5	4	19	5/8
65	2-1/2	178	22.3	1.6	105	139.5	4	19	5/8
80	3	190	23.9	1.6	127	152.5	4	19	5/8
100	4	229	23.9	1.6	157	190.5	8	19	5/8
125	5	254	23.9	1.6	186	216.0	8	22	3/4
150	6	279	25.4	1.6	216	241.5	8	22	3/4
200	8	343	28.6	1.6	270	298.5	8	22	3/4
250	10	406	30.2	1.6	324	362.0	12	25	7/8
300	12	483	31.8	1.6	381	432.0	12	25	7/8

Class 300 鋼製管法蘭規格

Class 300 Steel Pipe Flange Dimensions

ASME B16.5-2020

公稱規格 Nominal Size		D	t	f	g	螺栓孔 Bolt Holes			螺絲規格 Bolt Size
公釐 mm	英吋 inch					c	孔數	h	
15	1/2	95	14.3	1.6	35	66.5	4	16	1/2
20	3/4	117	15.9	1.6	43	82.5	4	19	5/8
25	1	124	17.5	1.6	51	89.0	4	19	5/8
32	1-1/4	133	19.1	1.6	64	98.5	4	19	5/8
40	1-1/2	156	20.7	1.6	73	114.5	4	22	3/4
50	2	165	22.3	1.6	92	127.0	8	19	5/8
65	2-1/2	190	25.4	1.6	105	149.0	8	22	3/4
80	3	210	28.6	1.6	127	168.0	8	22	3/4
100	4	254	31.8	1.6	157	200.0	8	22	3/4
125	5	279	35.0	1.6	186	235.0	8	22	3/4
150	6	318	36.6	1.6	216	270.0	12	22	3/4
200	8	381	41.3	1.6	270	330.0	12	25	7/8
250	10	444	47.7	1.6	324	387.5	16	29	1
300	12	521	50.8	1.6	381	451.0	16	32	1-1/8



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