

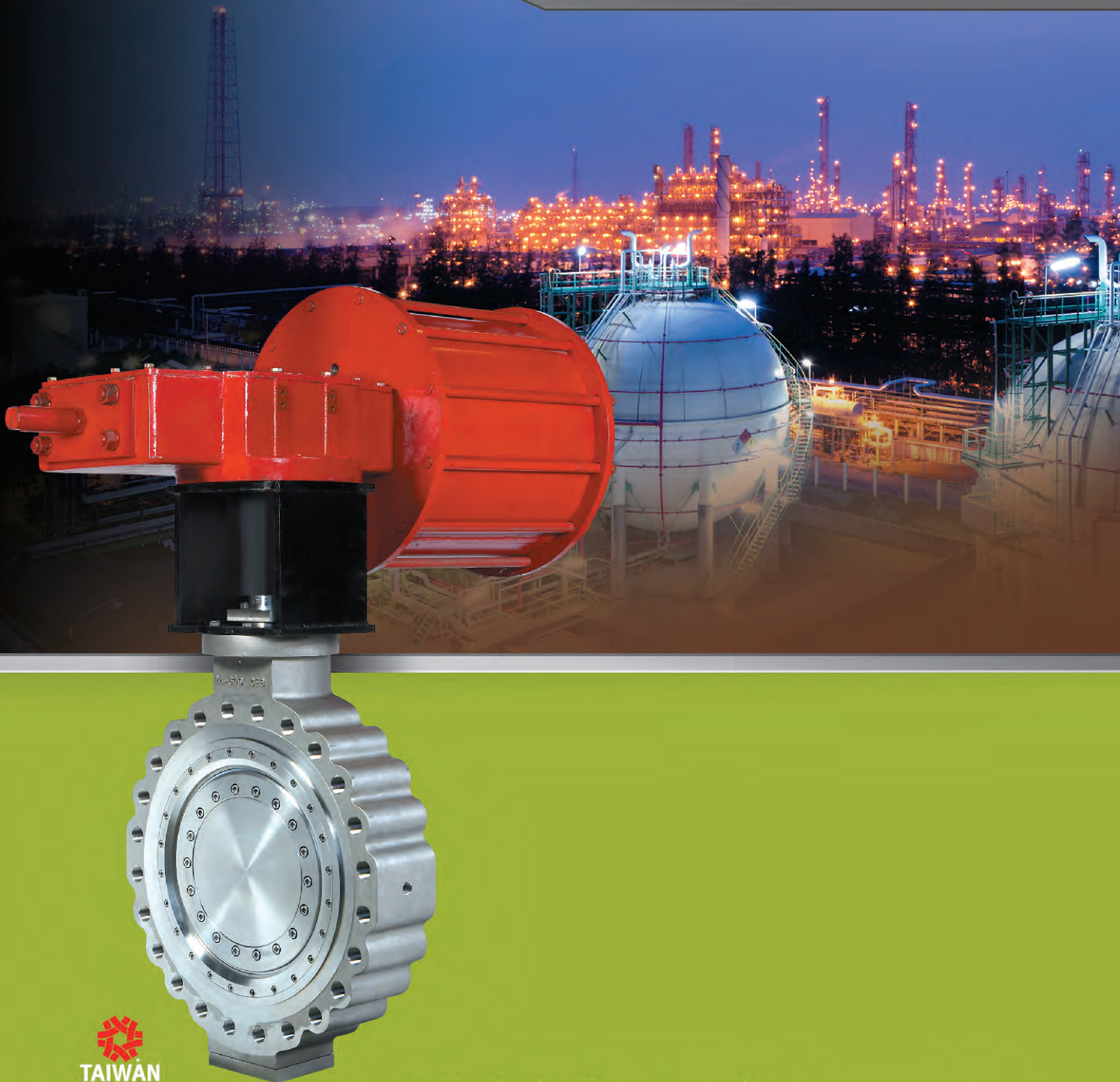


JDV  
CONTROL  
VALVES



# JTE-M Type

Triple Offset Metal-Seated Butterfly Valve  
三偏心金屬密封蝶閥



*We link all you need  
and more than you expect.*





JDV  
CONTROL  
VALVES

# JTE-M

## Triple Offset Metal Seat Butterfly Valve 三偏心金屬密封蝶閥

Wafer/Lug/Flanged Ends ASME CLASS 150/300/600/900/1500/2500

對夾/多耳/雙法蘭

### Industrial Fields: 應用產業

Oil & Gas

石油和天然氣

Refinery / Petrochemical

石油精煉/石化業

Chemical

化工業

Pulp & Paper

造紙業

Power Plant

發電廠

Steel Mill

煉鋼廠

Food

食品業

Mining

採礦業



A revolutionary design of triple offset geometry, a progressive contact angle, an innovative double-inclined seat cone axis, a self-adaptive sealing system and a metal-to metal sealing are a few examples of the unique features of our JTEM triple offset butterfly valve. Especially designed for extreme working conditions such as high temperature, cryogenic temperature, high pressure drop and abrasive mediums, it offers unparalleled performances and zero leakage capability to meet the toughest requirements in the most challenging industries.

採用創新三偏心幾何革命性的設計及獨特的雙傾斜閥座錐軸構件，其密封系統運用JTEM三偏心蝶閥的獨特金屬密封設計。專門針對惡劣及極端的工作環境及需求，特別因應高溫、低溫、高壓降和高磨損介質輸送作業，此項目提供了無與倫比的高效性能和零洩漏的環保低污染設計，以滿足最具挑戰性行業之最高效能需求。通過業界安全認證最高標準 SIL3，安全性及操作性無與倫比。



## THE TRIPLE OFFSET GEOMETRY 三偏心幾何原理

### 1st Offset 第一偏

The centerline of the stem is moved behind the seat axis, in order to offer an optimum sealing contact.  
閥桿的中心線在閥座軸線後方移動，提供最佳的密封接觸。

### 2nd Offset 第二偏

The centerline of the disc is offset from the centerline of the valve body, allowing the disc seal to move away freely during the opening.  
碟板的中心線偏離閥體的中心線，允許碟板密封件在打開過程中自由移動。

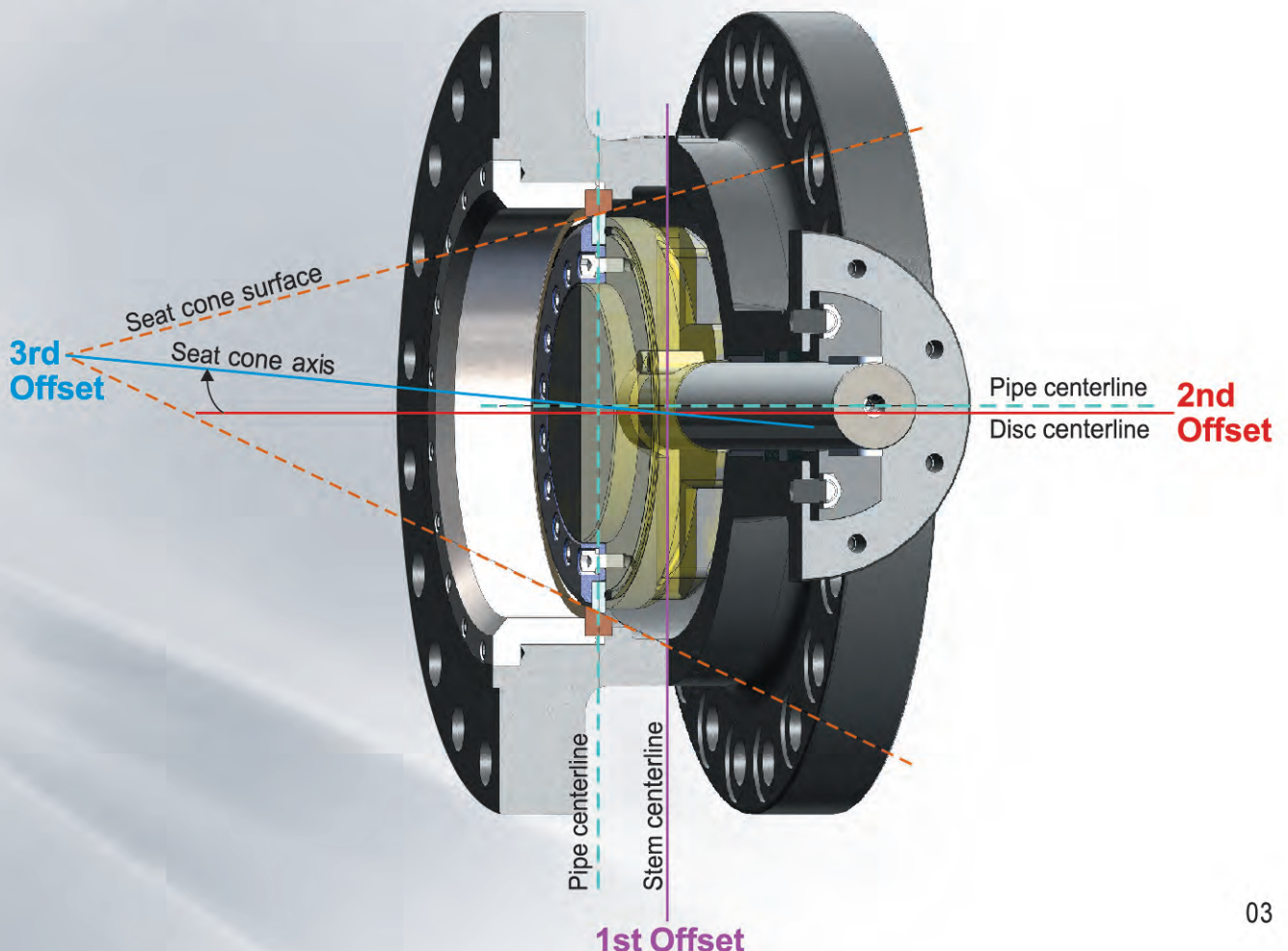
### 3rd Offset 第三偏

In typical triple offset designs, the axis of the seat cone is inclined from the centerline of valve bore to minimize the friction of seat/seal contact surfaces during the operation and to preserve sealing integrity.

JDV's innovative double inclined triple offset design inherits the advantages of typical designs and optimizes them to provide the lightest torque, zero leakage, a longer life cycle and an easy maintenance process.

在典型的三偏心設計中，座錐的軸線從閥孔的中心線傾斜，以最大程度地減少操作過程中閥座與密封墊接觸表面的摩擦並保持密封完整性。

JDV的創新型雙傾斜三偏心設計繼承了典型設計的優勢，並對其進行了優化，以提供最輕的扭矩，零洩漏設計，更長的使用壽命和易於維護的過程。





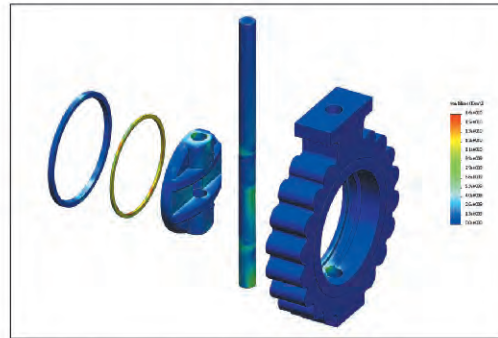


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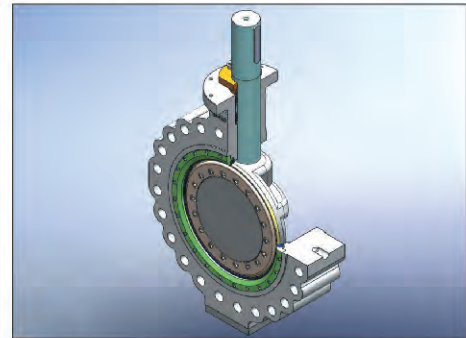
## Applicable Standards 適用標準

1. Body Material(閥體材質): Standard in WCB, CF8, CF8M. Other materials are available according to requirements.
2. Nominal Size(尺寸): 3" to 24" (DN80 to DN600), 26" to 72" (DN650 to DN1800) are on request.
3. Pressure Rating(壓力等級): ASME CLASS 150/300/600, 900/1500/2500 are on request.
4. End Connections(連接方式): Wafer / Lug / Flanged Short Pattern and Long Pattern.
5. Temperature Range(溫度範圍): -320~932°F (-196~500°C), higher temperature on request.
6. Design Standard(設計標準): API 609 / ASME B16.34 / BS EN 593 / EN 12516
7. Flanged Dimensions(法蘭尺寸): ASME B16.5 (NPS 3 to 24) / MSS SP-44 (NPS 12 to 24)  
ASME B16.47 (NPS 26 to 60) / ASME B16.47 (MSS SP-44)/  
ASME B16.47 (API 605) / EN 1092-1 / DIN 2501 / ISO 7005
8. Face-to-face Dimensions(面到面尺寸): API 609 Category B for Lug/Wafer / ISO 5752 for Flanged Short Pattern  
ASME B16.10 for Flanged Long Pattern / EN558 Series 16 for Lug  
Wafer / Series 13/14 for Flanged Short Pattern
9. Anti-blowout Stem Design(閥體強度標準): Complied with API 609 Sec. 4.9
10. Casting(鑄造標準): MSS-SP-55
11. Marking(標記標準): MSS-SP-25 / EN 19
12. Mounting Pad(安裝平台標準): ISO 5211
13. Screw Thread(螺紋標準): ASME B1.1 / BS 3643
14. Body Pressure Test(壓力測試標準): API 598 / ISO 5208 / EN 12266-1
15. Seat Leakage Test(閥座洩漏測試標準): ANSI/FCI70-2 Class VI in standard, Zero leakage is available on request.
16. Cryogenic Temperature Test(低溫測試標準): BS 6364
17. Fire Safe Design(防火安全設計標準): Certificated according to ISO 10497
18. Low Emission Design(低洩漏設計標準): Certificated according to ISA 93.00.01 / ISO 15848-1  
VDI 2440 (TA-Luft)
19. Functional Safety Certification(安全認證): SIL3 (EC 61508 Parts 1-7:2010)

## State-of-the-art Engineering 先進的工程學設計



Finite Factor Analysis 有效元素分析



SolidWorks 3D SolidWorks 3D 設計

## Product Features 產品特色

1. Solid metal seat and seal ring providing a true metal-to-metal design that withstands abrasive mediums and the high pressure drop.  
實心金屬座和密封環提供金屬對接設計可承受高壓及高磨損介質。
2. Separate seat design allowing an easy maintenance.  
可更換閥座設計利於設備維護。
3. Revolutionary double inclined design providing:
  - a. Bi-directional in tight sealing
  - b. Light torque
  - c. Longer valve life cycle.
 革命性的雙斜面設計提供：  
a. 雙向緊密封 b. 輕扭力 c. 自體適應的功能延長閥門生命週期。
4. Wide range of hard faces to seat and seal ring meeting the requirements of most using conditions.  
閥座和密封圈的硬度範圍寬，滿足大多數工況的使用條件。
5. Flexible metal seal ring precluding the jamming caused by thermal expansion to ensure a tight and safe sealing.  
彈性金屬密封環解決熱膨脹干擾，以確保最高安全性。
6. 1 piece stem design increasing the strength of the shaft and enhancing the valve life cycle.  
1-PC閥桿設計增加了軸承的強度，提高閥體生命週期。
7. Stem bearings ensuring the rigidity and stability of the shaft, and extending even more the valve life cycle.  
閥桿軸承確保了閥桿的剛性和穩定性，並延長了閥門的使用壽命。
8. Live-loading design increasing further an already long life cycle.  
動態負載設計進一步增加了閥門的使用壽命。
9. Low emission design with double stem packings preventing any packing leakage, even with the trickiest mediums.  
低洩漏設計，雙重填料防止任何洩漏，即使最嚴苛的介質。
10. Optional leakage control device allowing the detection and removal of any hypothetical leakage from the packing.  
可選配的洩漏控制裝置。
11. Emergency sealing injection device on request to restore the sealing integrity, should it be necessary.  
緊急密封修復裝置可速效恢復密封完整性。
12. Anti-shear pin design enhancing the resistance of the stem under high drop pressure.  
抗剪力設計提昇在高壓力降壓之阻力。
13. ISO 5211 Mounting pad.  
ISO 5211連接平台設計。
14. Anti-blowout stem design  
防飛出閥桿設計。
15. Anti-static design complying with API 609  
符合API 609的防靜電設計。
16. Fire safe design certificated according to ISO 10497.  
防火設計依據ISO 10497認證。





## Standard Design 標準設計

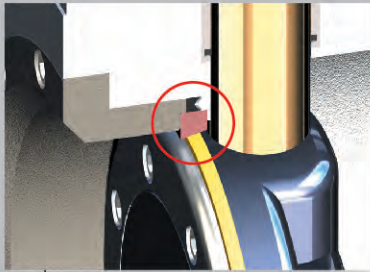
### Seat

#### True Metal Design 全金屬設計

Various optional hard faces.  
多樣化地金屬密封面

#### Replaceable Design 可更換式設計

The design includes a separate seat, not welded on the valve body, allowing an easy maintenance non-welded seat design, easy to replace and maintain.



### Seal Ring 密封環

#### Solid Metal Design 金屬設計

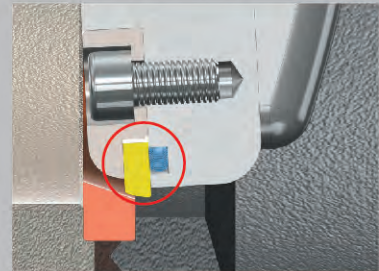
The solid metal design with hard face provides the most reliable performances in the toughest using conditions.

堅固的金屬表面設計，在最嚴酷的使用條件下，提供最可靠的性能。

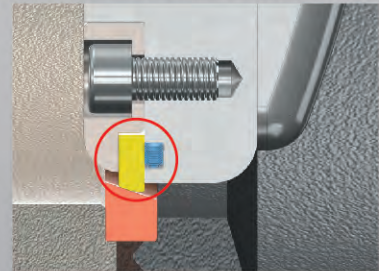
#### Flexible Design 靈活的設計

The flexible metal seal ring design guarantees the tightest shutoff and ensures safety in case of thermal expansion.

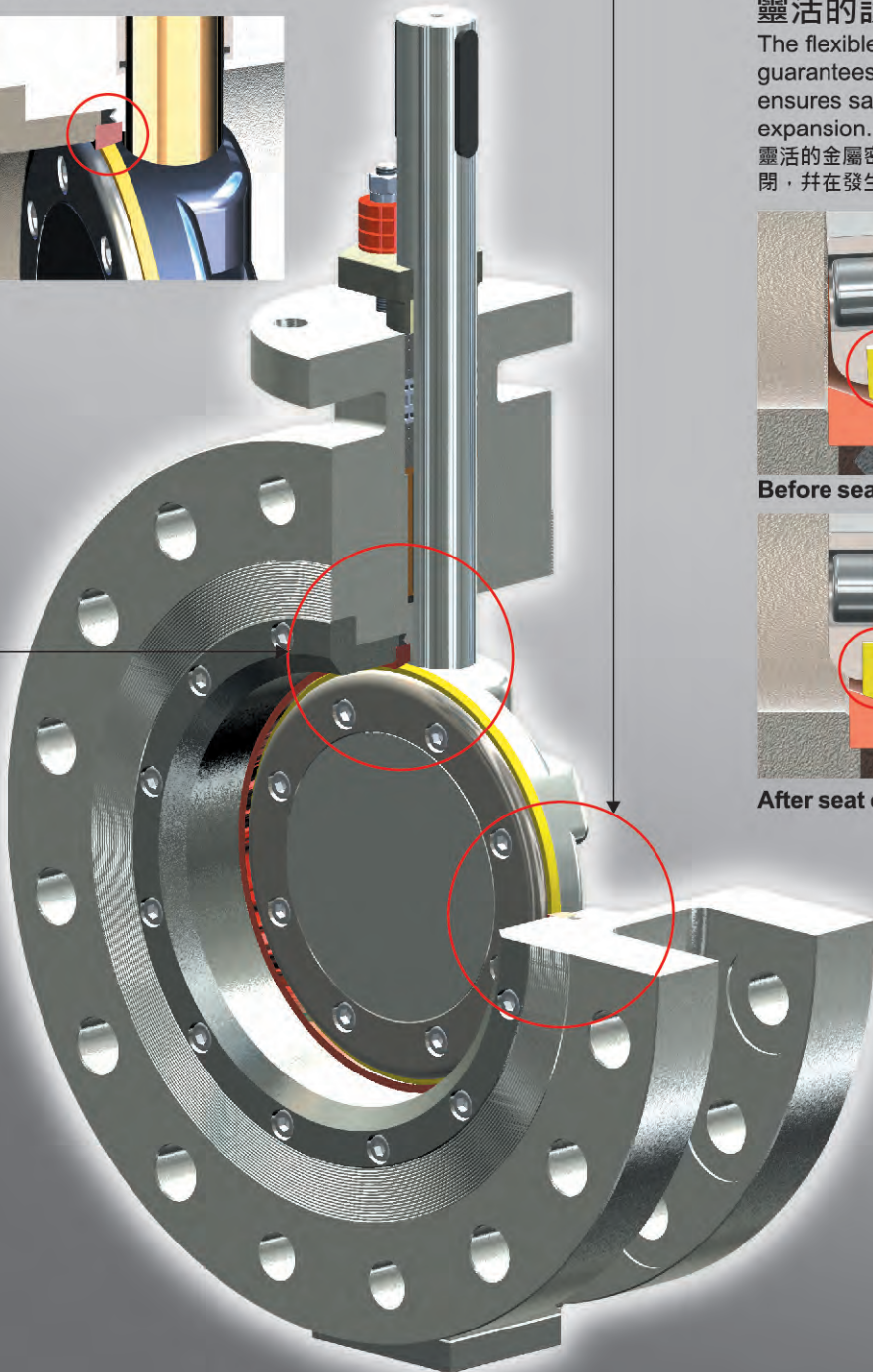
靈活的金屬密封環設計可確保緊密關閉，並在發生熱膨脹時確保安全。



Before seat contact 密封前



After seat contact 密封後





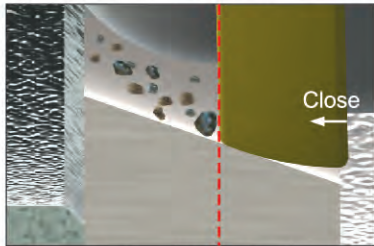
## Standard Design 标准設計

### Slideseal Design 具有滑動特徵密封環的設計

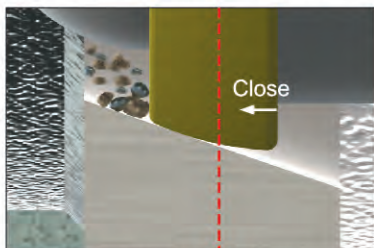
This dynamic seating arrangement features a double inclined cone design. The disc seal ring slides into the seating area to close the valve; this slide touch provides for a better sealing than the typical point of contact touch. Plus the seal ring is solid metal enabling it to sweep away particles left on seat surface to double secure a tight sealing and allow the valve a longer life cycle.

動態閥座斜錐設計。碟形密封圈滑入閥座關閉區域，這種滑動接觸提供出比典型的接觸點還要有更好的密封效果。

另外，密封環是實心金屬，使其能夠掃掠清除殘留在座椅表面上的顆粒，以雙重固定緊密封，使閥門的使用壽命更長。

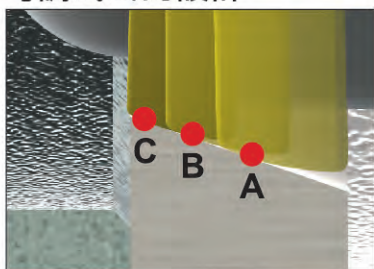


Disc seal ring sliding to close 刮刀式密封圈滑動以關閉



Disc seal ring seated 刮刀密封圈圍座

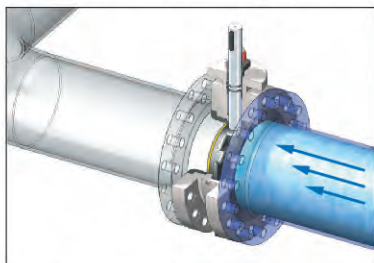
### Adjustable Sealing Design 可調式密封設計



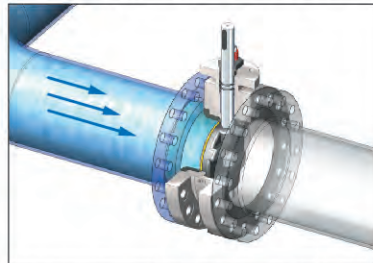
The double inclined cone design gives the possibility to adjust the contact point between seal ring and seat through the gear box or actuator. This ensures the shutoff tightness and extends the valve life cycle even the seat gets damaged.

雙斜錐設計使通過齒輪箱或執行器調節密封圈與閥座之間的接觸點成為可能。可確保在閥座受損時關斷緊閉及建延長閥的壽命。

### Bi-directional Tight Sealing Design 雙向緊密封設計

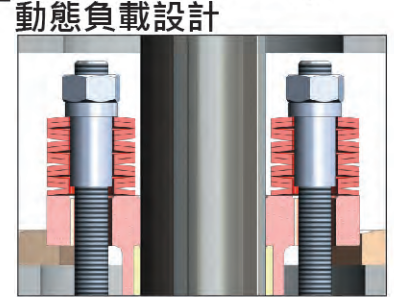


Preferred Direction 優先流向



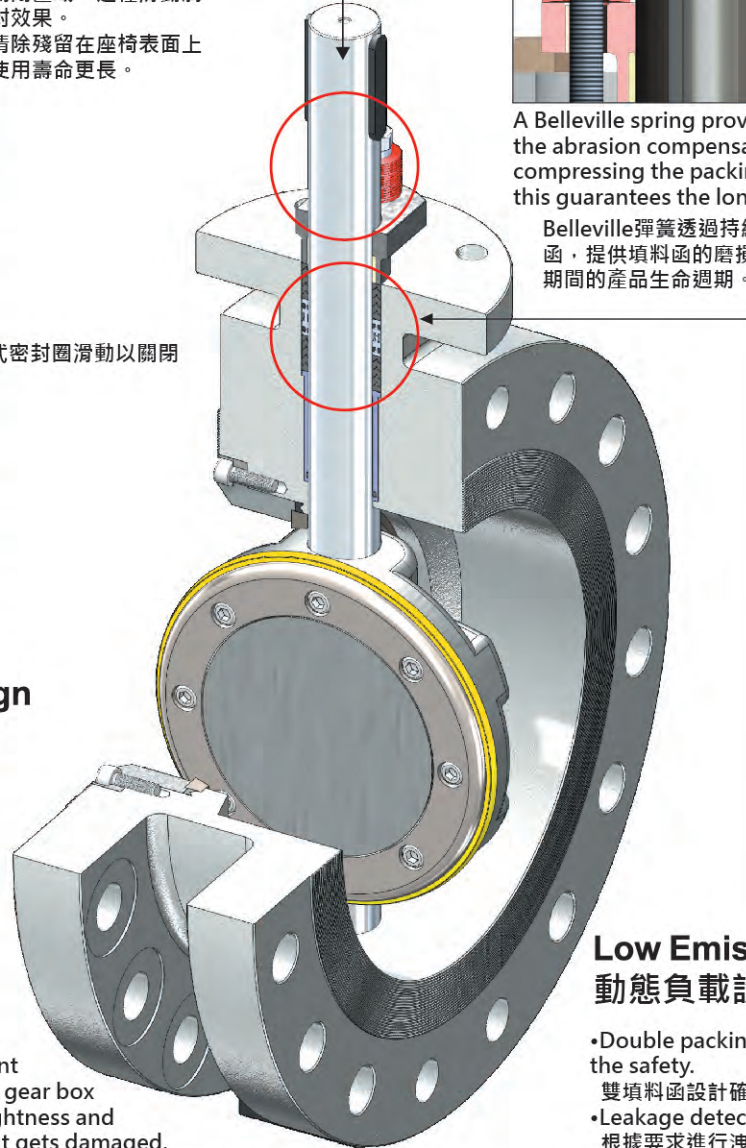
Non-preferred Direction 非優先流向

### Live-loading Design 動態負載設計



A Belleville spring provides the abrasion compensation by compressing the packing constantly; this guarantees the longest life cycle.

Belleville彈簧透過持續地壓縮填料函，提供填料函的磨損補償；保證長期間的產品生命週期。



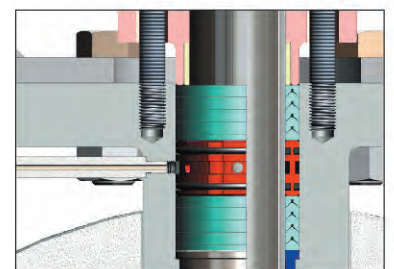
### Low Emission Design 動態負載設計

• Double packing design guarantees the safety.

雙填料函設計確保安全

• Leakage detection on request. 根據要求進行洩漏檢測。

• Emergency sealing injection on request. 根據要求提供緊急密封注入。

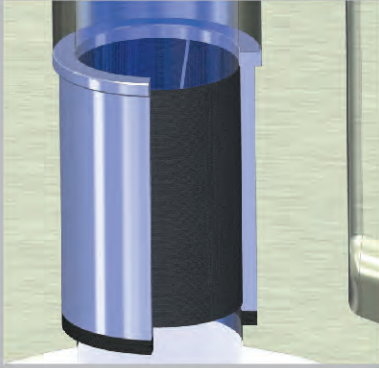




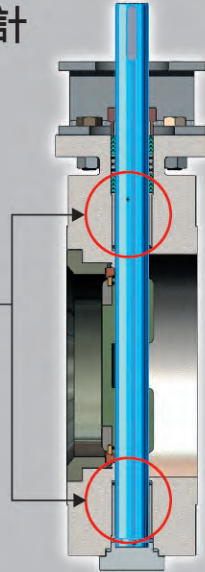


## Standard Design 標準設計

### High Cycle Stem Bushing 高頻低扭矩軸套



- Bearings provide excellent lubrication to give a longer lifecycle and a lower torque.  
軸套提供出色的潤滑，以延長使用壽命循環和較低的扭矩。
- Double layers design protects stem from medium intrusion and jamming.  
雙層設計保護閥桿來自中等程度的入侵和乾擾。
- Disc sustained on top and bottom ensures stability and tight sealing.  
圓盤支撐在頂部和底部確保穩定性和緊密封。

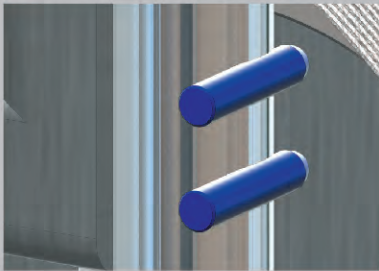


### Single Piece Stem 一體式心軸

It gives the best strength to the stem against any kind of severe conditions.  
心軸在任何惡劣條件下，都能提供最佳強度。

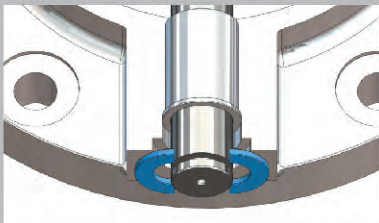
### ISO 5211 Mounting Pad ISO 5211的驅動器 安裝平台設計

### Anti-shear Pin Design 加強心軸於高壓降力下的抗剪斷銷設計

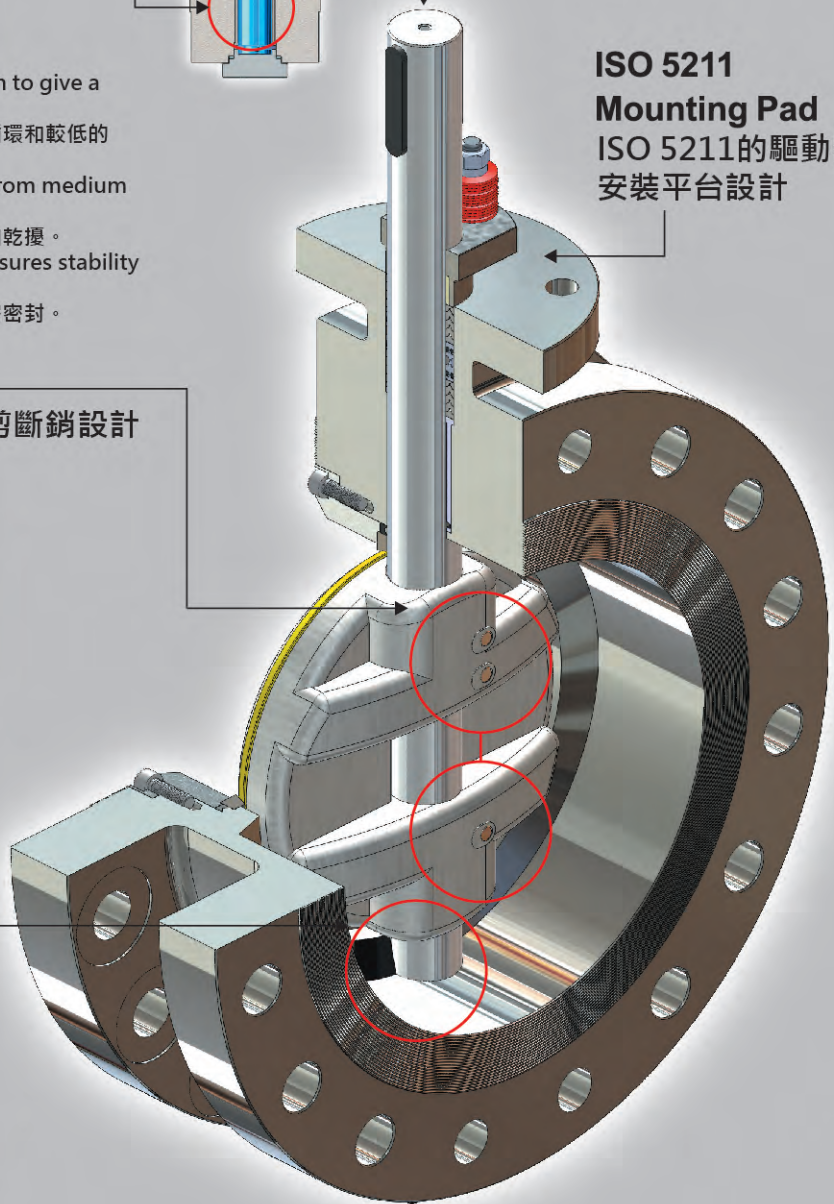


Pins fixed in the stem side prevent the stem from being sheared under high pressure drop.  
中軸與蝶片結合是以偏位方式打入鍵銷避免PIN斷裂問題。

### Anti-blowout Design 防飛出閥桿設計



Two half-circle clamps firmly holding the bottom of the stem prevent it from blowing out or dropping.  
兩個半月形夾扣可堅固的扣住閥桿的底部以防閥桿飛出或掉落。



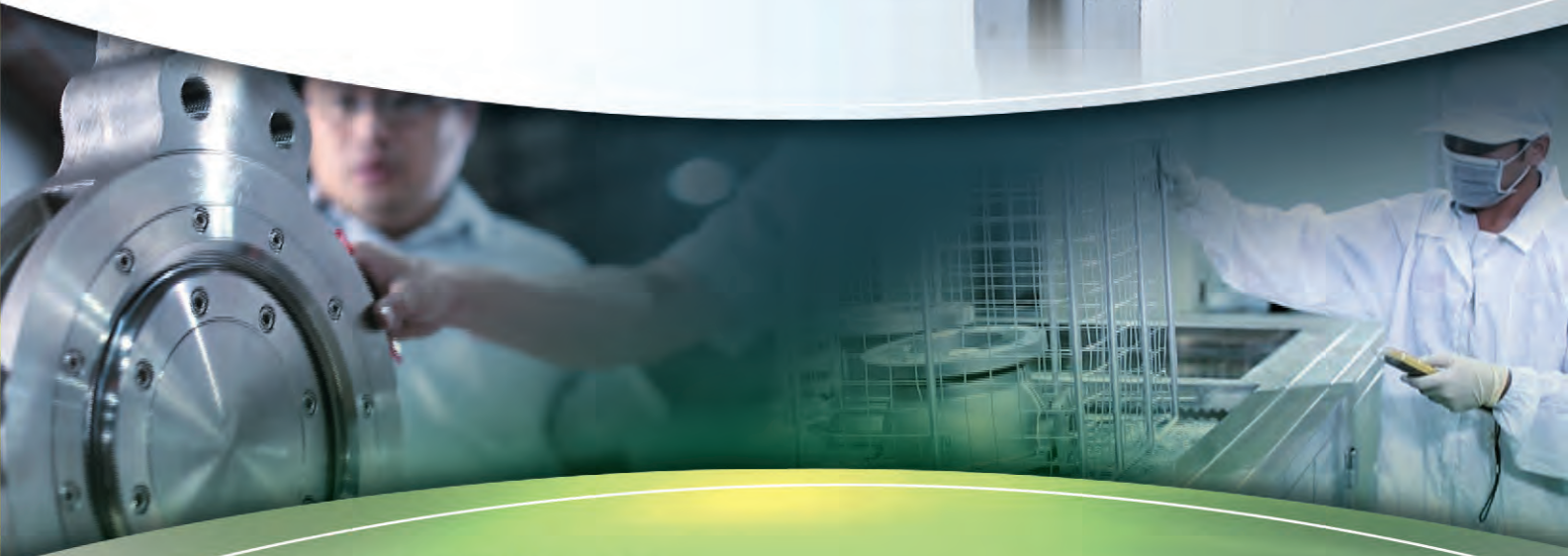


## Highly Sophisticated Technology

高度  
尖端技術

Our high-quality equipment and latest technology guarantee the optimal performance of the products, even under the toughest conditions.

我們的高質量設備和最新技術，既是在最嚴苛的情況下，保證產品的最佳效能。



## Strict Quality Control

嚴格的質量控制

Meticulous Quality Control procedures have been implemented in every production process and approved by the most important certifications such as ISO 9001, CE/PED, API 6D, SIL3, ISO 15848/TA-Luft, ISO 10497, etc., to assure your safety.

嚴格的質量控制程序已在每個生產過程並通過了最重要的認證，例如ISO 9001、CE / PED、API 6D、SIL3、ISO 15848/TA-Luft、ISO 10497等，以確保您的安全。



API 6D



ISO 9001



CE



SIL3



ISO 15848

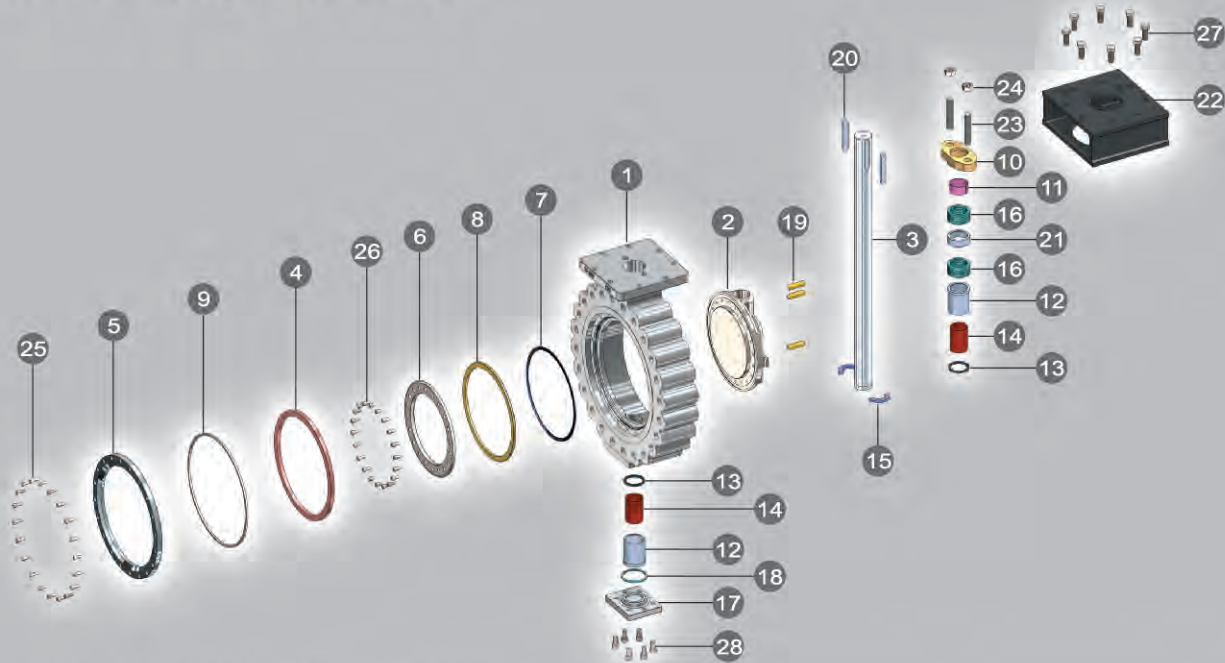


ISO 10497





## Technical Specifications



### STANDARD MATERIALS 標準材料

NO	PART NAME 料件名稱/材質	SM		SH1	
		-20~572 °F (-29~300 °C)		-20~797 °F (-29~425 °C)	-20~932 °F (-29~500 °C)
1	BODY 閥體	A216-WCB	A351-CF8M	A216-WCB	A351-CF8M
2	DISC 碟版	A216-WCB	A351-CF8M	A351-CF8/CF8M	A351-CF8M
3	STEM 心軸	A564-630(HH1150)	A276-XM-19	A276-XM-19	A276-XM-19/S66286
4	SEAT 球墊	A182-F304	A182-F316+HARD FACE	F316+HARD FACE	A182-F316+HARD FACE
5	BODY RETAINER 本體側蓋	A216-WCB	A351-CF8M	A216-WCB	A351-CF8M
6	DISC RETAINER 碟版側蓋	A216-WCB	A351-CF8M	A216-WCB	A351-CF8M
7	DISC GASKET DISC迫緊	GRAPHITE+316SS	GRAPHITE+316SS	GRAPHITE+316SS	GRAPHITE+316SS
8	SEAL RING 密封環	A182-F51+HARD FACE		S66286+HARD FACE	
9	BODY GASKET 止洩壓環迫緊	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
10	GLAND 壓蓋 (中口牛楠)	A351-CF8	A351-CF8	A351-CF8	A351-CF8
11	GLAND BEARING 牛楠襯套	A240-316+PTFE		A240-316+HARD FACE	
12	STEM BUSHING 心軸套環	A276-316	A276-316	A276-316+HARD FACE	A276-316+HARD FACE
13	STEMRINGSEAL 心軸止洩盤根	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
14	THRUST BEARING 軸襯套	TFE/COMPOSITE	TFE/COMPOSITE	N.A.	N.A.
15	THRUST WASHER 心軸底座	A240-316+HARD FACE	A240-316+HARD FACE	A240-316+HARD FACE	A240-316+HARD FACE
16	GLANDPACKING 中口迫緊	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
17	END COVER 底部封蓋	A216-WCB	A351-CF8M	A351-CF8/CF8M	A351-CF8M
18	COVER GASKET 底部封蓋迫緊	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
19	PIN 插銷	A564-630 (HH1150)	A276-XM-19	A276-XM-19	A276-XM-19/S66286
20	KEY 鍵銷	AISI-1045	AISI-1045	AISI-1045	AISI-1045
21	STEM RING 心軸套環	A276-316+HARD FACE	A276-316+HARD FACE	A276-316+HARD FACE	A276-316+HARD FACE
22	BRACKET 支架	A240-304	A240-304	A240-304	A240-304
23	GLAND BOLT 中口螺絲	A193-B8	A193-B8	A193-B8	A193-B8
24	GLAND NUT 中口螺帽	A194-8	A194-8	A194-8	A194-8
25	BODY RETAINER SCREW 本體螺絲	A193-B8	A193-B8	A193-B8M	A193-B8M
26	DISC RETAINER SCREW DISC螺絲	A193-B8	A193-B8	A193-B8M	A193-B8M
27	BRACKET SCREW 支架螺絲	A193-B8	A193-B8	A193-B8	A193-B8
28	END COVER SCREW 底部螺絲	A193-B8	A193-B8	A193-B8	A193-B8
※	MO <sup>(1)</sup>	HANDLE/GEAR BOX			

Notes:

(1) Options: AO: Automation / MO: Manual

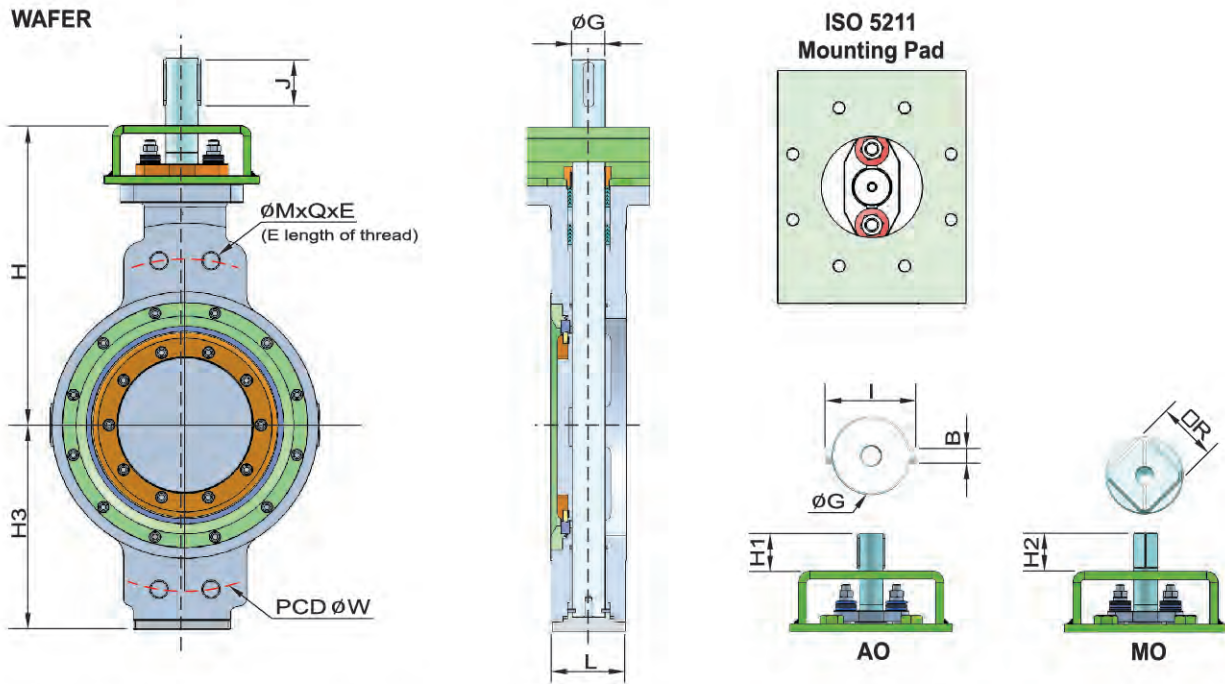
註記:

(1) 選項: AO: 自動 / MO: 手動

The above materials may be changed with different using conditions.

以上閥門部件可根據客戶需求和工況選擇其他材質





## DIMENSIONS (ASME CLASS 150 WAFER) 尺寸

(mm)

SIZE	W	M	Q	E	L	H	H1	H2	H3	□R	ØG	BxIxJ	ISO 5211	Wt (Kg)	
80	3"	152.4	-	4	-	48	212	30	30	111	11	15	5x19x25	F10	8.5
100	4"	190.5	-	4	-	54	242	36	36	131	14	18	6x23x30	F10	12
150	6"	241.3	-	4	-	57	262	36	36	159	14	19	6x24x30	F10	18.2
200	8"	298.5	-	4	-	64	290	40	-	194	-	25	8x31x35	F10	32.8
250	10"	362	-	4	-	71	350	40	-	226	-	28	8x34x35	F14	46
300	12"	431.8	-	4	-	81	407	56	-	260	-	35	10x41x50	F16	71.2
350	14"	476.3	-	4	-	92	437	56	-	291	-	37	10x43x50	F16	95.5
400	16"	539.8	1"-8 UNC	4	17	102	505	80	-	324	-	42	12x48x70	F16	130.5
450	18"	577.9	1-1/8"-8 UN	4	19	114	532	80	-	351	-	45	14x52x70	F16	160.7
500	20"	635	1-1/8"-8 UN	4	19	127	559	80	-	384	-	50	16x58x70	F16	220.2
600	24"	749.3	1-1/4"-8 UN	4	21	154	678	140	-	449	-	55	16x63x130	F25	379.7

## DIMENSIONS (ASME CLASS 300 WAFER) 尺寸

(mm)

SIZE	W	M	Q	E	L	H	H1	H2	H3	□R	ØG	BxIxJ	ISO 5211	Wt (Kg)	
80	3"	168.2	-	4	-	48	222	30	20	121	11	15	5x19x25	F10	9
100	4"	200.2	-	4	-	54	252	36	30	141	14	18	6x23x30	F10	14
150	6"	269.8	-	4	-	59	280	40	-	184	-	25	8x31x35	F10	21
200	8"	330.2	-	4	-	73	335	56	-	209	-	33	10x39x50	F14	38.2
250	10"	387.4	1"-8 UNC	4	17	83	382	56	-	244	-	35	10x41x50	F16	56.7
300	12"	450.9	1-1/8"-8 UN	4	19	92	443	80	-	277	-	45	14x52x70	F16	90.2
350	14"	514.4	1-1/8"-8 UN	4	19	117	488	80	-	317	-	50	16x58x70	F16	126.7
400	16"	571.5	1-1/4"-8 UN	4	21	133	559	140	-	358	-	55	16x63x130	F25	185
450	18"	628.7	1-1/4"-8 UN	4	21	149	586	140	-	389	-	65	20x74x130	F30	232.2
500	20"	685.8	1-1/4"-8 UN	4	21	159	630	140	-	432	-	65	20x74x130	F30	298
600	24"	812.8	1-1/2"-8 UN	4	26	181	731	160	-	494	-	75	22x85x150	F30	467

## DIMENSIONS (ASME CLASS 600 WAFER) 尺寸

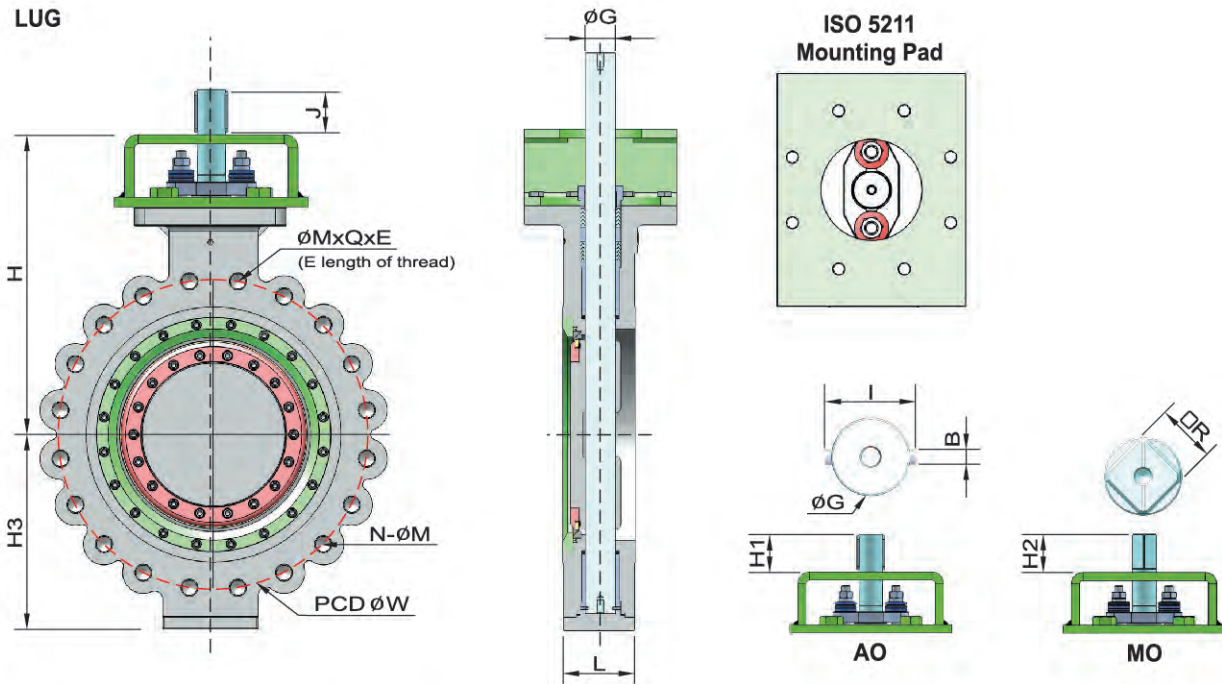
(mm)

SIZE	W	M	Q	E	L	H	H1	H2	H3	□R	ØG	BxIxJ	ISO 5211	Wt (Kg)	
80	3"	168.2	-	4	-	54	229	40	-	125	-	20	6x25x35	F10	17.5
100	4"	215.9	-	4	-	64	281	40	-	155	-	30	10x40x35	F14	27
150	6"	292.1	1"-8 UNC	4	17	78	375	65	-	204	-	40	10x46x60	F16	43
200	8"	349.3	1-1/8"-8 UN	4	19	102	393	80	-	229	-	45	14x52x70	F16	91
250	10"	431.8	1-1/4"-8 UN	4	21	117	489	140	-	288	-	55	16x63x130	F25	131
300	12"	489	1-1/4"-8 UN	4	21	140	510	140	-	322	-	60	16x68x130	F30	173
350	14"	527.1	1-3/8"-8 UN	4	24	155	565	140	-	339	-	65	20x74x130	F30	207
400	16"	603.3	1-1/2"-8 UN	4	26	178	630	160	-	375	-	75	22x85x150	F30	398
450	18"	654.1	1-5/8"-8 UN	4	28	200	675	160	-	411	-	90	25x100x150	F35	443
500	20"	723.9	1-5/8"-8 UN	4	28	216	720	200	-	449	-	100	18x112x190	F40	557
600	24"	838.2	1-7/8"-8 UN	4	32	323	800	220	-	531	-	120	32x134x210	F40	766





# JDV CONTROL VALVES



## DIMENSIONS (ASME CLASS 150 LUG) 尺寸 (mm)

SIZE	W	M	Q	E	N	L	H	H1	H2	H3	DR	ØG	BxIxJ	ISO 5211	Wt (Kg)	
80	3"	152.4	5/8"-11 UNC	-	-	4	48	212	30	30	111	11	15	5x19x25	F10	10
100	4"	190.5	5/8"-11 UNC	-	-	8	54	242	36	36	131	14	18	6x23x30	F10	15
150	6"	241.3	3/4"-10 UNC	-	-	8	57	262	36	36	159	14	19	6x24x30	F10	21.4
200	8"	298.5	3/4"-10 UNC	-	-	8	64	290	40	-	194	-	25	8x31x35	F10	34.5
250	10"	362	7/8"-9 UNC	-	-	12	71	350	40	-	226	-	28	8x34x35	F14	56.2
300	12"	431.8	7/8"-9 UNC	-	-	12	81	407	56	-	260	-	35	10x41x50	F16	95
350	14"	476.3	1"-8 UNC	-	-	12	92	437	56	-	291	-	37	10x43x50	F16	120.7
400	16"	539.8	1"-8 UNC	4	17	16	102	505	80	-	324	-	42	12x48x70	F16	183.8
450	18"	577.9	1-1/8"-8 UN	4	19	16	114	532	80	-	351	-	45	14x52x70	F16	216.9
500	20"	635	1-1/8"-8 UN	4	19	20	127	559	80	-	384	-	50	16x58x70	F16	302
600	24"	749.3	1-1/4"-8 UN	4	21	20	154	678	140	-	449	-	55	16x63x130	F25	466.1

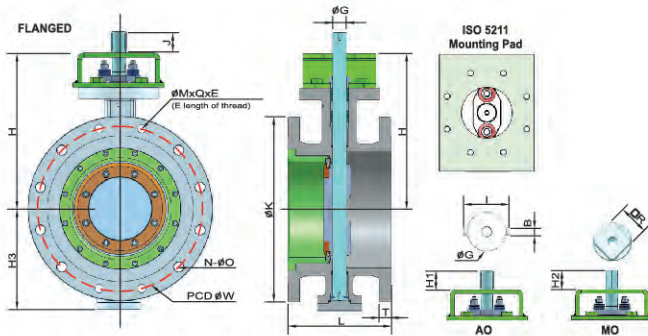
## DIMENSIONS (ASME CLASS 300 LUG) 尺寸 (mm)

SIZE	W	M	Q	E	N	L	H	H1	H2	H3	DR	ØG	BxIxJ	ISO 5211	Wt (Kg)	
80	3"	168.2	3/4"-10 UNC	-	-	8	48	222	30	20	121	11	15	5x19x25	F10	11.5
100	4"	200.2	3/4"-10 UNC	-	-	8	54	252	36	30	141	14	18	6x23x30	F10	17.8
150	6"	269.8	3/4"-10 UNC	-	-	12	59	280	40	-	184	-	25	8x31x35	F10	32.4
200	8"	330.2	7/8"-9 UNC	-	-	12	73	335	56	-	209	-	33	10x39x50	F14	52
250	10"	387.4	1"-8 UNC	4	17	16	83	382	56	-	244	-	35	10x41x50	F16	81
300	12"	450.9	1-1/8"-8 UN	4	19	16	92	443	80	-	277	-	45	14x52x70	F16	125
350	14"	514.4	1-1/8"-8 UN	4	19	20	117	488	80	-	317	-	50	16x58x70	F16	216.6
400	16"	571.5	1-1/4"-8 UN	4	21	20	133	559	140	-	358	-	55	16x63x130	F25	316.1
450	18"	628.7	1-1/4"-8 UN	4	21	24	149	586	140	-	389	-	65	20x74x130	F30	370.2
500	20"	685.8	1-1/4"-8 UN	4	21	24	159	630	140	-	432	-	65	20x74x130	F30	468
600	24"	812.8	1-1/2"-8 UN	4	26	24	181	731	160	-	494	-	75	22x85x150	F30	726

## DIMENSIONS (ASME CLASS 600 LUG) 尺寸 (mm)

SIZE	W	M	Q	E	N	L	H	H1	H2	H3	DR	ØG	BxIxJ	ISO 5211	Wt (Kg)	
80	3"	168.2	3/4"-10 UNC	-	-	8	54	229	40	-	125	-	20	6x25x35	F10	23
100	4"	215.9	7/8"-9 UNC	-	-	8	64	281	40	-	155	-	30	10x40x35	F14	33
150	6"	292.1	1"-8 UNC	4	17	12	78	375	65	-	204	-	40	10x46x60	F16	59
200	8"	349.3	1-1/8"-8 UN	4	19	12	102	393	80	-	229	-	45	14x52x70	F16	122
250	10"	431.8	1-1/4"-8 UN	4	21	16	117	489	140	-	288	-	55	16x63x130	F25	192
300	12"	489	1-1/4"-8 UN	4	21	20	140	510	140	-	322	-	60	16x68x130	F30	288
350	14"	527.1	1-3/8"-8 UN	4	24	20	155	565	140	-	339	-	65	20x74x130	F30	325
400	16"	603.3	1-1/2"-8 UN	4	26	20	178	630	160	-	375	-	75	22x85x150	F30	587
450	18"	654.1	1-5/8"-8 UN	4	28	20	200	675	160	-	411	-	90	25x100x150	F35	694
500	20"	723.9	1-5/8"-8 UN	4	28	24	216	720	200	-	449	-	100	18x112x190	F40	795
600	24"	838.2	1-7/8"-8 UN	4	32	24	232	800	220	-	531	-	120	32x134x210	F40	1120





## DIMENSIONS (ASME CLASS 150 FLANGED) 尺寸

(mm)

SIZE	W	K	M		Q	E	O	N	L		T	H	H1	H2	H3	OR	ØG	BxIxJ	ISO 5211	Wt (Kg)	
			Short	Long					Short	Long											
80	3"	152.4	190.5	-	-	-	19	4	114	203	24	212	30	30	111	11	15	5X19X25	F10	13	15
100	4"	190.5	228.6	-	-	-	19	8	127	229	24	242	36	36	131	14	18	6X23X30	F10	21	24
150	6"	241.3	279.4	-	-	-	22	8	140	267	25.5	262	36	36	159	14	19	6X24X30	F10	34	41
200	8"	298.5	342.9	-	-	-	22	8	152	292	28.5	290	40	-	194	-	25	8X31X35	F10	57	66
250	10"	362	406.4	-	-	-	25	12	165	330	30.1	350	40	-	226	-	28	8X34X35	F14	87	118
300	12"	431.8	482.6	-	-	-	25	12	178	356	31.8	407	56	-	260	-	35	10X41X50	F16	141	164
350	14"	476.3	533.4	-	-	-	29	12	190	381	34.9	437	56	-	291	-	37	10X43X50	F16	178	205
400	16"	539.8	596.9	-	-	-	29	16	216	406	36.7	505	80	-	324	-	42	12X48X70	F16	232	264
450	18"	577.9	635	1-1/8"-8 UN	4	29	32	16	222	432	39.7	532	80	-	351	-	45	14X52X70	F16	250	296
500	20"	635	698.5	1-1/8"-8 UN	4	29	32	20	229	457	42.8	559	80	-	384	-	50	16X58X70	F16	338	397
600	24"	749.3	812.8	1-1/4"-8 UN	4	32	35	20	267	508	47.6	678	140	-	449	-	55	16X63X130	F25	607	686
650	26"	806.4	870	1-1/4"-8 UN	4	32	35	24	292	559	68.7	697	150	-	463	-	70	20X80X140	F30	653	760
700	28"	863.6	925	1-1/4"-8 UN	4	32	35	28	292	610	71.9	718	160	-	494	-	75	22x85x150	F30	690	818
750	30"	914.4	985	1-1/4"-8 UN	4	32	35	28	318	610	75.1	758	160	-	532	-	80	22X91X150	F35	953	1086
800	32"	977.9	1060	1-1/2"-8 UN	4	38	41	28	318	660	81.4	796	160	-	568	-	85	25x95x150	F35	976	1109
900	36"	1086	1170	1-1/2"-8 UN	4	38	41	32	330	711	90.9	878	210	-	651	-	100	28X112X200	F35	1470	1882
1000	40"	1200	1290	1-1/2"-8 UN	4	38	41	36	410	-	90.9	983	210	-	708	-	100	28x112x200	F35	1580	-
1050	42"	1257	1345	1-1/2"-8 UN	4	38	41	36	410	-	97.3	1021	210	-	709	-	110	32X125X210	F40	2232	-
1200	48"	1422	1510	1-1/2"-8 UN	4	38	41	44	470	-	108.4	1058	230	-	806	-	120	32x134X220	F40	2414	-

## DIMENSIONS (ASME CLASS 300 FLANGED) 尺寸

(mm)

SIZE	W	K	M		Q	E	O	N	L		T	H	H1	H2	H3	OR	ØG	BxIxJ	ISO 5211	Wt (Kg)	
			Short	Long					Short	Long											
80	3"	168.2	209.6	-	-	-	22	8	114	282	28.5	222	30	30	121	11	15	5X19X25	F10	17.7	22.7
100	4"	200.2	254	3/4"-10 UNC	4	19	22	8	127	305	31.8	252	36	36	141	14	18	6X23X30	F10	33.3	40.3
150	6"	269.8	317.5	3/4"-10 UNC	4	19	22	12	140	403	36.7	280	40	-	184	-	25	8X31X35	F10	56.4	74.4
200	8"	330.2	381	7/8"-9 UNC	4	22	25	12	152	419	41.2	335	56	-	209	-	33	10X39X50	F14	89.7	116.7
250	10"	387.4	444.5	1"-8 UNC	4	26	29	16	165	457	47.6	382	56	-	244	-	35	10X41X50	F16	134	179
300	12"	450.9	520.7	1-1/8"-8 UN	4	29	32	16	178	502	50.9	443	80	-	277	-	45	14X52X70	F16	180.4	239.4
350	14"	514.4	584.2	1-1/8"-8 UN	4	29	32	20	190	562	53.9	488	80	-	317	-	50	16X58X70	F16	257.6	379.6
400	16"	571.5	647.7	1-1/4"-8 UN	4	32	35	20	216	638	57.2	559	140	-	358	-	55	16X63X130	F25	361.1	520.1
450	18"	628.7	711.2	1-1/4"-8 UN	4	32	35	24	222	694	60.3	586	140	-	389	-	65	20X74X130	F30	428.9	636.9
500	20"	685.8	774.7	1-1/4"-8 UN	4	32	35	24	229	691	63.6	630	140	-	432	-	65	20X74X130	F30	538	815
600	24"	812.8	914.4	1-1/2"-8 UN	4	38	41	24	267	1143	69.9	731	160	-	494	-	75	22X85X150	F30	836.2	1253
650	26"	876.3	970	1-5/8"-8 UN	4	42	44.5	28	292	1245	79.8	810	160	-	528	-	90	25x110x150	F35	980	1412
700	28"	939.8	1035	1-5/8"-8 UN	4	42	44.5	28	292	1346	86.2	830	210	-	558	-	100	28X112X200	F35	1057	1640
750	30"	997	1090	1-3/4"-8 UN	4	45	47.6	28	318	1397	92.5	845	210	-	593	-	110	32X124X200	F35	1650	1923
800	32"	1054	1150	1-7/8"-8 UN	4	48	50.8	28	318	1524	98.9	870	210	-	680	-	120	32X134X200	F40	1780	2215
900	36"	1168	1270	2"-8 UN	4	51	54	32	330	1727	105.2	932	230	-	691	-	130	36X147X220	F40	2365	2428
1000	40"	1156	1240	1-5/8"-8 UN	4	42	45	32	410	-	114.8	945	230	-	704	-	140	36X157X220	F40	2180	-
1050	42"	1207	1290	1-5/8"-8 UN	4	42	45	32	410	-	119.5	1012	230	-	728	-	150	40X169X220	F48	2853	-
1200	48"	1372	1465	1-7/8"-8 UN	4	48	51	32	470	-	133.8	1180	230	-	833	-	165	42X191X220	F48	3748	-

## DIMENSIONS (ASME CLASS 600 FLANGED) 尺寸

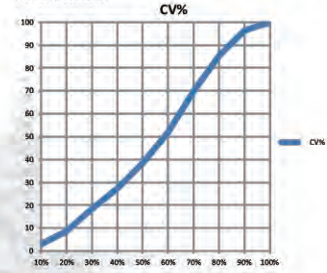
(mm)

SIZE	W	K	M		Q	E	O	N	L		T	H	H1	H2	H3	OR	ØG	BxIxJ	ISO 5211	Wt (Kg)	
			Short	Long					Short	Long											
80	3"	168.3	209.6	-	-	-	22	8	180	356	38.2	229	40	40	125	-	20	6X25X35	F10	43	55.3
100	4"	215.9	273.1	-	-	-	25	8	190	432	44.5	281	40	40	155	-	30	10X40X35	F14	60	73
150	6"	292.1	355.6	1"-8 UNC	4	26	29	12	210	559	54.2	375	65	65	204	-	40	10X46X60	F16	103	137
200	8"	349.2	419.1	1-1/8"-8 UN	4	29	32	12	230	660	62	393	80	80	229	-	45	14X52X70	F16	175	251
250	10"	431.8	508	1-1/4"-8 UN	4	32	35	16	250	787	69.9	489	140	-	288	-	55	16X63X130	F25	270	414
300	12"	489	558.8	1-1/4"-8 UN	4	32	35	20	270	838	73	510	140	-	322	-	60	16X68X130	F30	359	540
350	14"	527.1	603.3	1-3/8"-8 UN	4	35	38	20	290	889	76.3	565	140	-	339	-	70	20X74X130	F30	411	631
400	16"	603.3	685.8	1-1/2"-8 UN	4	38	41	20	310	991	82.6	630	160	-	375	-	75	22X85X150	F30	632	1006
450	18"	654.1	743	1-5/8"-8 UN	4	42	45	20	330	1092	89	675	160	-	411	-	90	25X100X150	F35	751	1216
500	20"	723.9	812.8	1-5/8"-8 UN	4	42	45	24	350	1194	95.3	720	200	-	449	-	100	18X112X190	F40	863	1396
600	24"	838.2	939.8	1-7/8"-8 UN	4	48	51	24	390	1397	108	800	220	-	531	-	120	32X134X210	F40	1279	2039
650	26"	914.4	1015	1-7/8"-8 UN	4	48	50.8	28	390	-	115	878	230	-	580	-	130	36X147X220	F40	1530	-
700	28"	965.2	1075	2"-8 UN	4	51	54	28	430	-	118.2	945	230	-	615	-	140	36X157X220	F40	1950	-
750	30"	1022	1130	2"-8 UN	4	51	54	28	430	-	121.3	1000	230	-	660	-	150	40x168x220	F48	2380	-





**INHERENT FLOW CHARACTERISTICS**  
固有流動特性



**Cv VALUES CV值**  
150/300LB

SIZE	OPENING (%)									
	10	20	30	40	50	60	70	80	90	100
3"	5	14	29	44	61	82	111	135	153	159
4"	9	27	58	86	120	163	219	267	303	314
6"	25	73	155	230	321	435	584	714	809	838
8"	40	116	247	366	511	692	931	1137	1288	1335
10"	73	214	455	675	942	1276	1715	2095	2374	2460
12"	110	324	688	1021	1425	1929	2594	3168	3590	3720
14"	145	426	907	1345	1877	2541	3416	4172	4729	4900
16"	192	564	1199	1779	2482	3360	4518	5517	6253	6480
18"	238	700	1488	2207	3080	4169	5606	6847	7760	8041
20"	362	1065	2265	3361	4689	6348	8536	10425	11814	12243
24"	522	1535	3263	4842	6756	9146	12298	15020	17022	17639
26"	560	1623	3451	5121	7145	9673	13007	15886	18003	18656
28"	645	1871	3979	5904	8238	11152	14995	18314	20755	21508
30"	748	2170	4615	6847	9554	12934	17392	21241	24072	24945
32"	803	2328	4950	7345	10248	13874	18656	22784	25821	26758
36"	1084	3143	6683	9916	13836	18731	25186	30760	34861	36125
40"	1294	3753	7980	11840	16520	22365	30073	36729	41624	43134
42"	1360	3945	8389	12448	17368	23512	31616	38613	43760	45347
48"	2109	6115	13004	19295	26922	36447	49008	59854	67833	70293

**600LB**

SIZE	OPENING(%)									
	10	20	30	40	50	60	70	80	90	100
4"	8	22	46	69	96	130	174	213	241	250
6"	17	49	104	154	214	290	390	477	540	560
8"	28	81	171	254	355	481	646	789	895	927
10"	46	134	286	424	591	801	1076	1315	1490	1544
12"	56	162	345	512	714	966	1300	1587	1799	1864
14"	104	301	640	949	1324	1792	2410	2944	3336	3457
16"	137	398	846	1255	1751	2371	3188	3894	4413	4573
18"	187	542	1153	1711	2387	3232	4346	5307	6015	6233
20"	250	726	1544	2291	3197	4328	5820	7107	8055	8347
24"	381	1105	2350	3486	4864	6585	8854	10814	12256	12700
30"	608	1764	3750	5565	7764	10511	14134	17262	19562	20272



**TEMPERATURE & PRESSURE TABLE (ASME B 16.34)**  
溫度和壓力表

TEMPERATURE (°F)		-20~100	200	300	400	500	600	650	700	750	800	850	900	950	
TEMPERATURE (°C)		-29~38	93	149	204	260	316	343	371	399	427	454	482	510	
ASME CLASS 150	WCB	PRESSURE (PSIG)	285	260	230	200	170	140	125	110	95	80	-	-	-
		PRESSURE (BAR)	19.65	17.93	15.86	13.79	11.72	9.65	8.62	7.58	6.55	5.52	-	-	-
	CF8M	PRESSURE (PSIG)	275	235	215	195	170	140	125	110	95	80	65	50	35
		PRESSURE (BAR)	18.96	16.2	14.82	13.45	11.72	9.65	8.62	7.58	6.55	5.52	4.48	3.45	2.41
ASME CLASS 300	WCB	PRESSURE (PSIG)	740	680	655	635	605	570	550	530	505	410	-	-	-
		PRESSURE (BAR)	51.02	46.89	45.16	43.78	41.71	39.3	37.92	36.54	34.82	28.27	-	-	-
	CF8M	PRESSURE (PSIG)	720	620	560	515	480	450	440	435	425	420	420	415	385
		PRESSURE (BAR)	49.64	42.75	38.61	35.51	33.1	31.03	30.34	29.99	29.3	28.96	28.97	28.62	26.55
ASME CLASS 600	WCB	PRESSURE (PSIG)	1480	1360	1310	1265	1205	1135	1100	1060	1015	825	-	-	-
		PRESSURE (BAR)	102.04	93.72	90.32	87.22	83.08	78.26	75.85	73.09	69.98	56.88	-	-	-
	CF8M	PRESSURE (PSIG)	1440	1240	1120	1025	955	900	885	870	855	845	835	830	775
		PRESSURE (BAR)	99.29	85.5	77.22	70.67	65.85	62.06	61.02	59.99	58.95	58.26	57.59	57.24	53.45

**HOW TO ORDER 如何訂購**

A. SPECIFICATION	B. BODY MAT'L	C. DISC MAT'L	D. STEM MAT'L	E. SEAT MAT'L
C1 ASME CLASS 150	02 WCB (1.0619)	S WCB (1.0619)	22 630 (1.4542)	A CF8 (1.4308)
C2 ASME CLASS 300	03 CF8 (1.4308)	A CF8 (1.4308)	10 S31803 (1.4462)	C CF8M (1.4408)
C3 ASME CLASS 600	04 CF8M (1.4408)	C CF8M (1.4408)	25 XM-19	D CF3 (1.4306)
C4 ASME CLASS 900	05 CF3 (1.4306)	D CF3 (1.4306)	26 S66286 (1.4980)	E CF3M (1.4404)
C5 ASME CLASS 1500	06 CF3M (1.4404)	E CF3M (1.4404)	29 INCONEL®	F CG8M (1.4412)
C6 ASME CLASS 2500	07 CG8M (1.4412)	F CG8M (1.4412)		
D1 DIN PN10	11 LCB (1.1138)			
D2 DIN PN16	12 LCC (1.7219)			
D3 DIN PN25	15 CD3MN (1.4470)			
D4 DIN PN40				

F. SIZE	G. OPTION	H. END CONNECTION	I. TEMPERATURE
80 3"	F FIRE SAFE	W WAFER	SM -20~572°F
100 4"	L EXTENDED STEM	L LUG	(-29~300°C)
150 6"	i LIVE LOADING	SRF RF FLANGED (SHORT PATTERN)	SEAT W/STELLITE®
200 8"	H LEVER	SRT RTJ FLANGED (SHORT PATTERN)	SEAL RING W/HCR
250 10"	G GEAR	LRF RF FLANGED (LONG PATTERN)	SH1 -20~932°F
300 12"	A BARE SHAFT	LRT RTJ FLANGED (LONG PATTERN)	(-29~500°C)
350 14"	N NACE		SEAT W/STELLITE®
400 16"	CY CRYOGENIC DESIGN		SEAL RING W/STELLITE®
450 18"			
500 20"			
600 24"			

HOW TO ORDER

※ Alternative materials are available on request.  
\* 閥內件均做相應的硬化處理, 以上內件為基材。





■ HEADQUARTERS

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