JDV CONTROL VALVES

QUALITY SWISS

JBT-F / JBT-M Type

Trunnion Type Soft Metal Seat Ball Valve

固定軸軟密封/金屬密封球閥

TAIWAN EXCELLENCE 2016

We link all you need and more than you expect.

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固定軸軟密封/金屬密封球閥

Full Bore Three Piece Flanged Ends 全通徑三片式法蘭球閥

ASME CLASS 150/300/600/900/1500/2500

The JBT-F / JBT-M Type are Trunnion-mounted ball valves designed with vanguard engineering and highly sophisticated technology. Our in-house High Velocity Oxygen Fuel-sprayed hard faces allow them to defy the toughest operating conditions, such as high pressure, abrasive and corrosive mediums, slurries, etc. Successfully used in the Oil & Gas industry, Refineries and Power Plants, these API 6D certificated valves provide an outstanding tightness, stability, safety and reliability that exceed most industry standards.

採用固心式球閥設計，先驅的的工程能力與高明的球體加工技術。廠內獨到的高速火焰噴射硬密封噴塗技術，挑戰最嚴苛的工況條件。如高壓，高磨損及高腐蝕性介質，泥漿介質等。產品已成功應用在煉油業，石油精煉與發電廠。通過API 6D的認證，提供優異的堅固性，穩定性，安全性與可靠性，超越大多數的工業要求標準。

Product Features 產品特色

1. True bidirectional design and wide temperature range satisfying all applications.
   雙向密封與寬廣溫度設計，可滿足所有應用環境
2. Cavity pressure relief design protecting against any excess of pressure in the body cavity.
   閥腔洩壓設計，防止閥體內壓力過高
3. Trunnion ball design ensuring a tight contact between seats and balls, and allowing the valves to withstand extremely high pressures.
   固定式閥球設計，確保閥座跟閥球緊密接觸，可承受極高的壓力
4. Single Piston seat rings that guarantees the self-relief of the body cavity in case of overpressure.
   單活塞密封閥座環確保超壓時，閥腔能自動洩壓
5. Double piston design in option, securing both upstream and downstream sealings.
   雙活塞密封設計(選配)，確保上下游兩端的密封效果
6. Optional double block and bleed design ensuring a safe isolation simultaneously on both upstream and downstream seats.
   雙向關斷與自動洩壓設計(選配)，可同步確保上下游兩端 都能密封及安全的隔斷
7. Splined stem design strengthening the trim to withstand heavy torques under high pressure drops.
   閥桿花齒結合設計，強化軸桿，在高壓環境下可承受更大的扭力
8. Emergency sealant injection design on request to restore the seat or packing integrity immediately.
   緊急注料填充密封設計(選配)，可立即填補密封填充材料，維持密封功能
9. Optional drain plug device to empty the cavity or to detect any leakage.
   排放塞口設計(選配)，可清理閥腔及偵測有無洩漏。
10. Body gland providing a trustworthy anti-blowout function and an easy maintenance. 閥桿防飛出設計，安全可靠且容易維護
11. Several alternatives of soft and metal seats to meet any kinds of requirement.
    多種可選擇的軟/硬密封閥座，可應用在各種條件需求
12. Optional purge device guaranteeing a complete cleaning of the body cavity.
    吹掃裝置(選配)，徹底清潔閥腔
13. Fire safe design according to API 607 or API 6FA. 防火設計，符合API 607 或 API 6FA
14. Anti-static device. 防靜電設計
15. ISO 5211 Mounting Pad design. 符合ISO 5211規格的安裝平台設計

Applicable Standards 適用標準

API 607/6FA Fire Safe Design

HVOF Thermal Spray

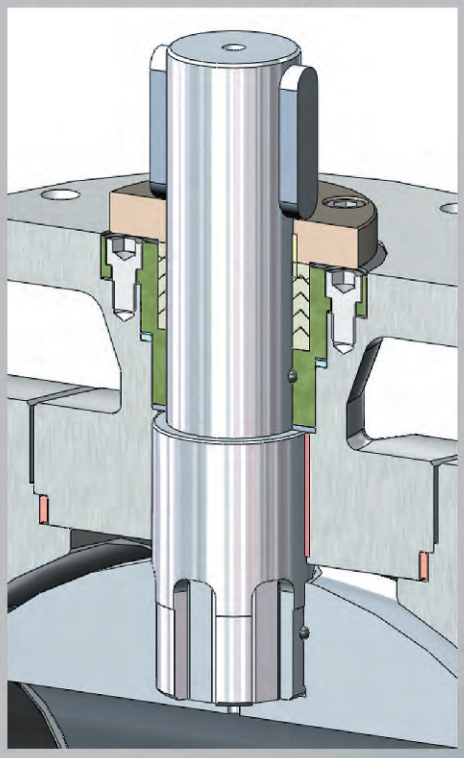
- Body Material(閥體材質): Standard in WCB, CF8, CF8M. Other materials are available according to requirements (可依專案客制需求).
- Nominal Size(尺寸): 2" to 24" (DN50 to DN600)
- Pressure Rating(壓力等級): ASME CLASS 150/300/600, 900/1500/2500 on request.
- End Connections(連接型式): 法蘭凸緣 RF / RTJ
- Temperature Range(溫度範圍): Soft seat(軟密封): -320~482°F (-196~250°C) Metal seat(硬密封): -320~932°F (-196~500°C) , higher temperature on request (更高溫度可依需求客制).
- Face-to-face Dimensions(面間尺寸): ASME B16.10
- Flanged Dimensions(法蘭尺寸): ASME B16.5
- Body Pressure Test(本體壓力測試): ASME B16.34/API 598/API 6D
- Seat Leakage Test(球墊洩漏測試):Soft seat(軟密封): ASME B16.34/API 598/API 6D Metal seat(硬密封): ANSI/FCI70-2 Class V in standard, Class VI in option.
- Casting(鑄造標準): MSS-SP-25 / MSS-SP-55
- Fire Safe Design(防火設計): Certificated according to API 607 / API 6FA 認證

Industrial Fields:

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

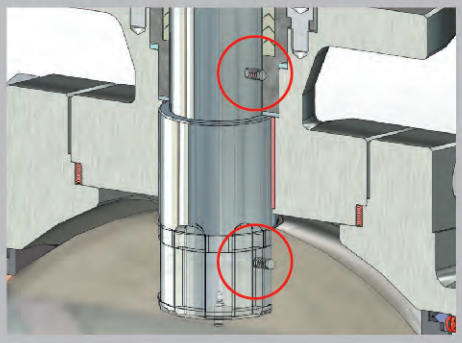
Standard Design 標准設計

Anti-blowout Design防飛出裝置

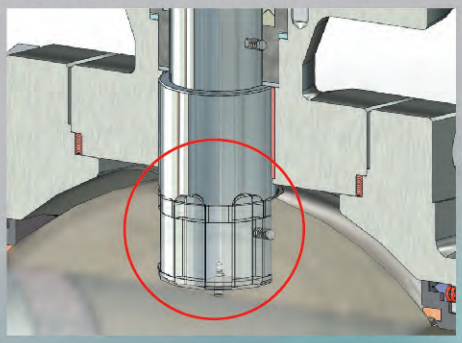


Body Gland prevents the stem from blowing out, and also provides an easy maintenance to the stem packing if necessary.

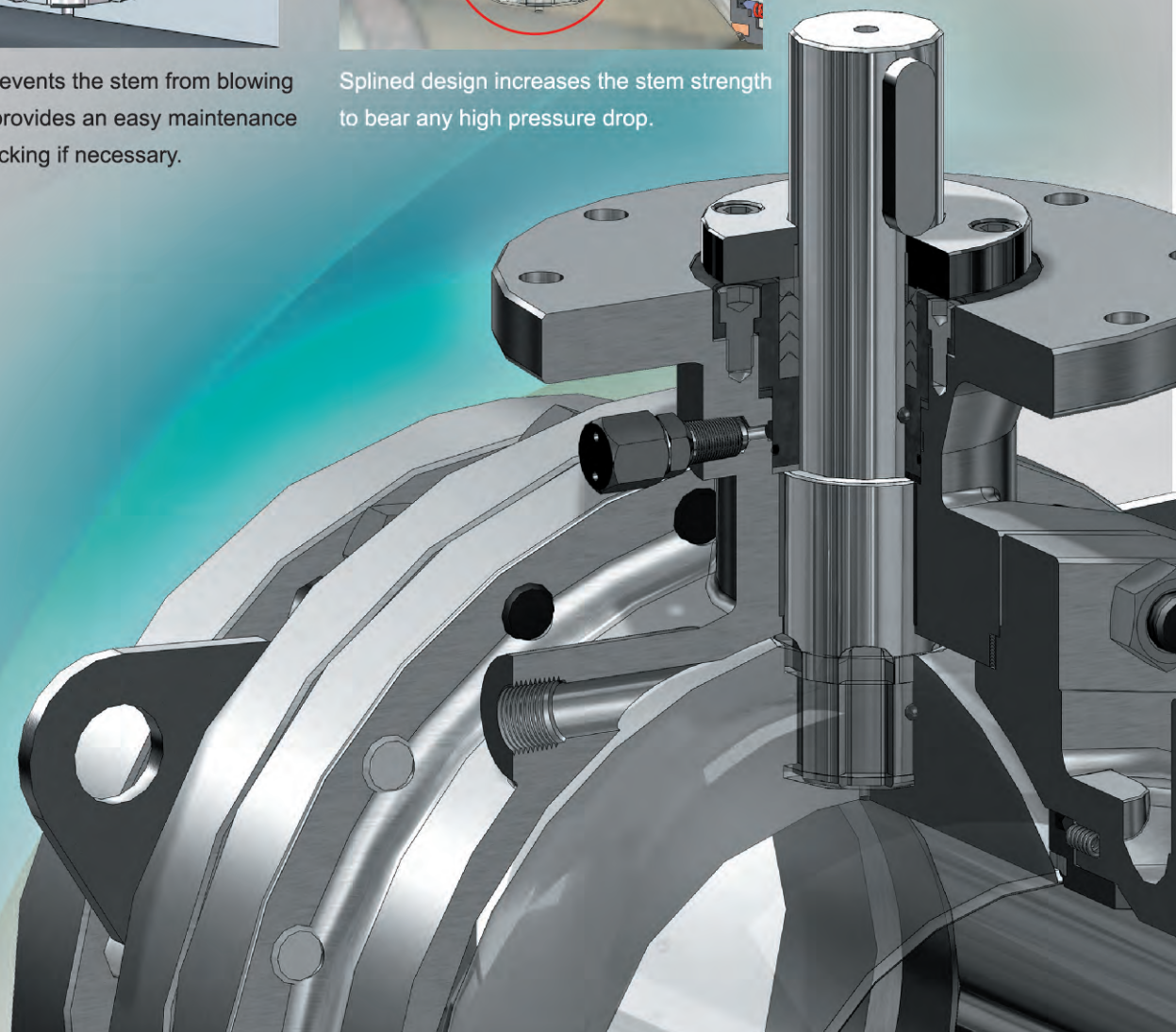
Antistatic Design 防靜電裝置



Splined Stem Design 抗剪應力花鍵桿設計



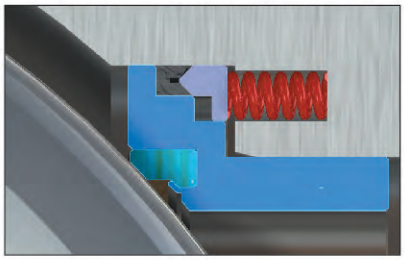
Splined design increases the stem strength to bear any high pressure drop.



Standard Design 標准設計

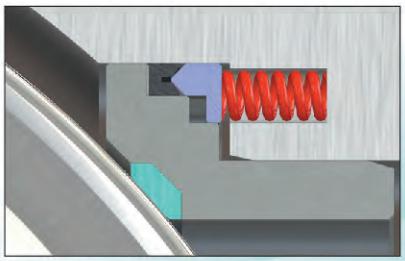
Optional Seats: 選配閥座

Soft Seat Design 軟密封閥座設計

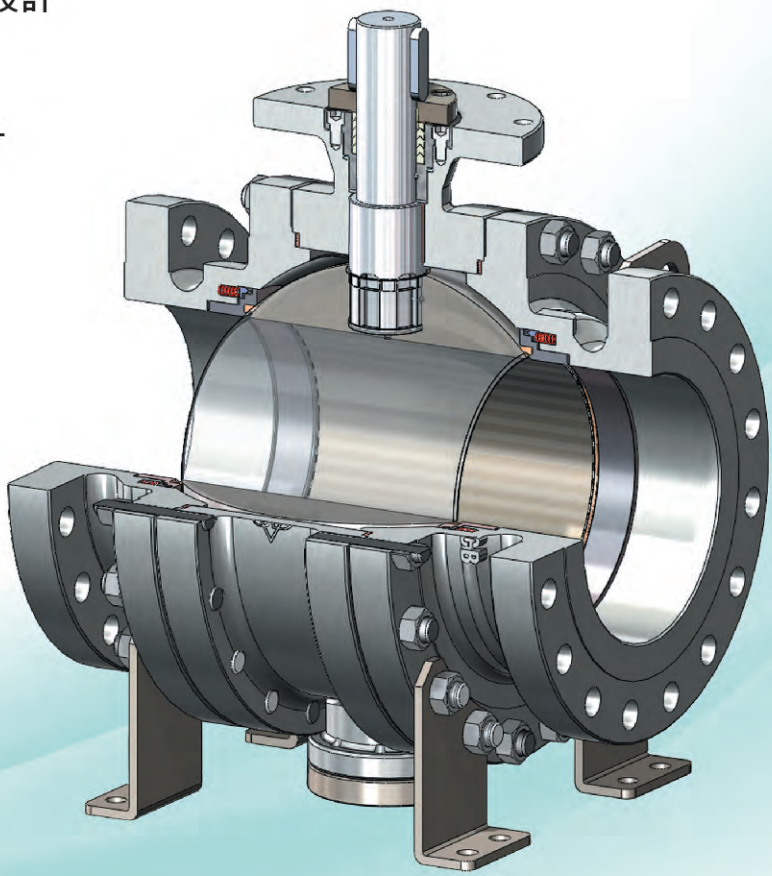


- Bidirectional design.
  雙向設計
- Alternative materials available.
  提供其他材料選用

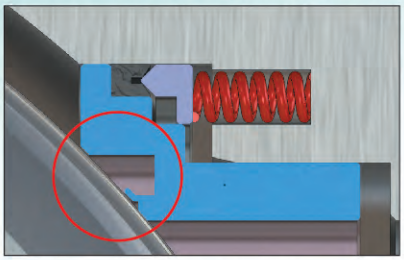
Metal Seat Design 金屬閥座設計



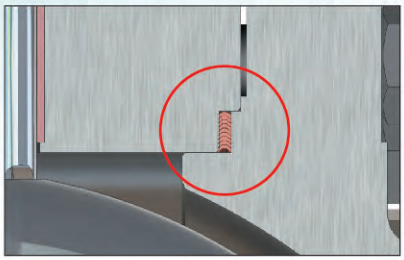
- Bidirectional design.
  雙向設計
- Various hard faces in option.
  提供各種金屬處理選擇



Fire Safe Design 防火安全設計

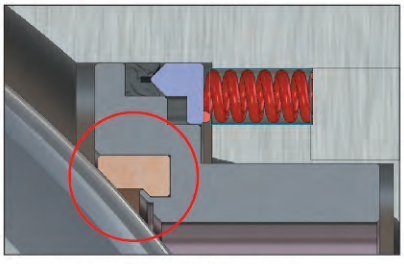


Metal-to-Metal contact after the soft seat is burned.
軟性密封元件遭到燒毀,
則金屬密封元件可發揮效用

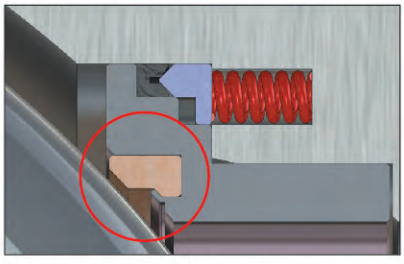


Graphite Body Gasket
石墨墊片

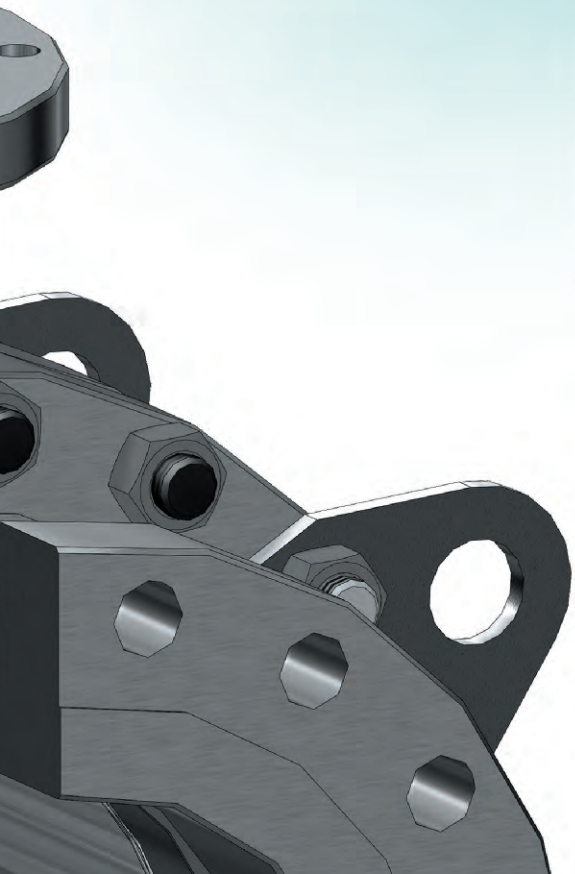
Cavity Pressure Relief Design 閥腔自動洩壓



Before pressure relief 洩壓前

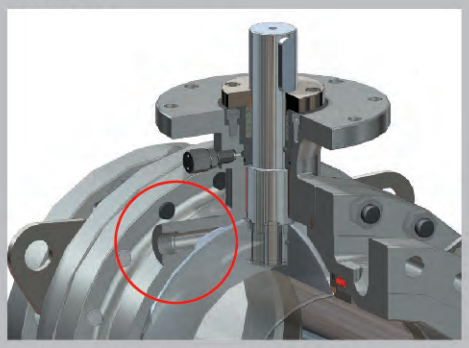


After pressure relief 洩壓後



Optional Designs 選配設計

Purge Design
吹掃設計

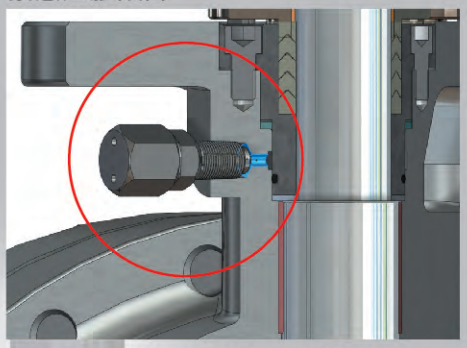


Purge design makes it easy to clean the body cavity.
吹掃設計使其易於清潔閥腔。

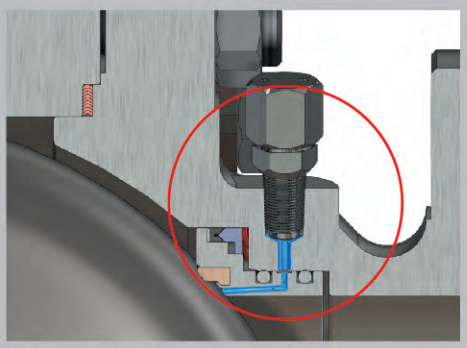
Double Piston Effect Seat Ring
雙活塞效應閥座環

Double Piston Effect Seat Rings ensure the sealing upstream and downstream when the cavity is overpressured.
This is available for working temperature -4~392 °F (-20~200 °C)
當腔體壓力過高時雙活塞效應密封圈確保上游端和下游端的密封。
該溫度或溫度可用-4~392°F (-20~200°C)

Emergency Sealant Injection
緊急注膠設計



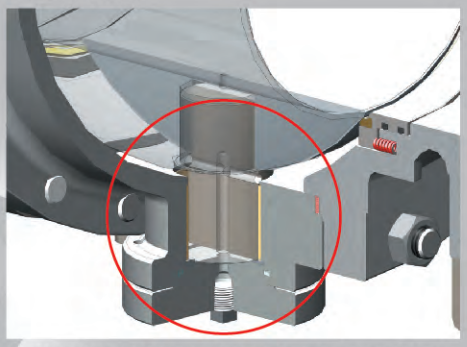
Injection to the Packing 注膠到墊片



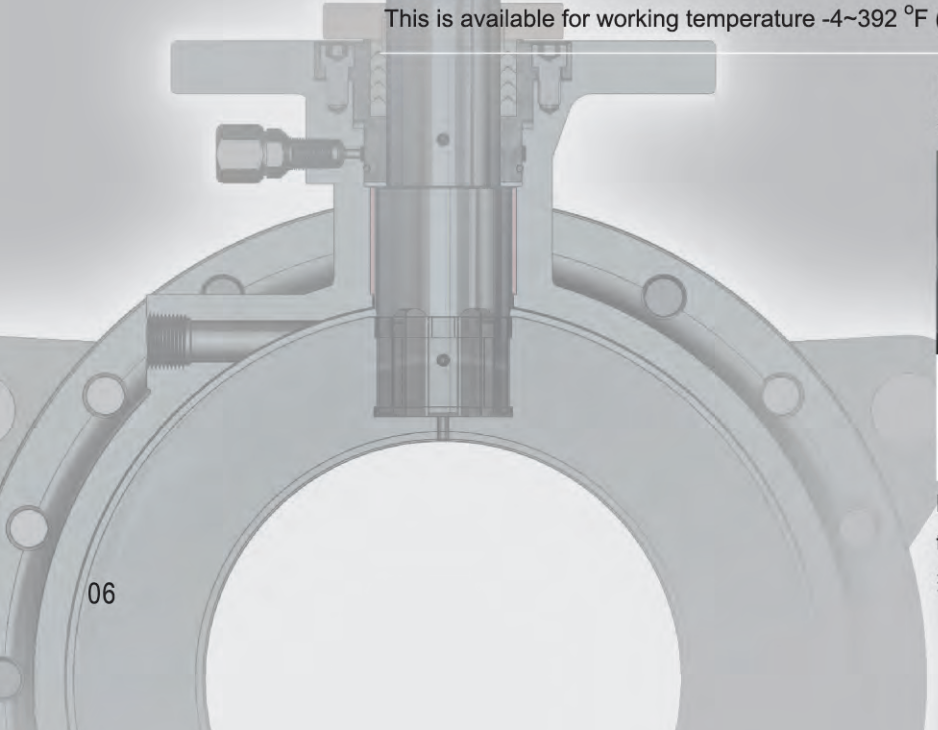
Injection to the seats 注入閥座

Emergency sealant can be injected to restore the packing and seats. 注入緊急密封膠至墊片和閥座，以防止洩漏。
This is available for working temperature -4~392 °F (-20~200 °C) 可用於工作攝氏溫度(-20～200°C)

Drain Plug Design
排污塞設計



Drain plug design allows to vent or detect the leakage.
排污塞設計允許排出或檢測洩漏。



OUR IN-HOUSE H.V.O.F. COATINGS

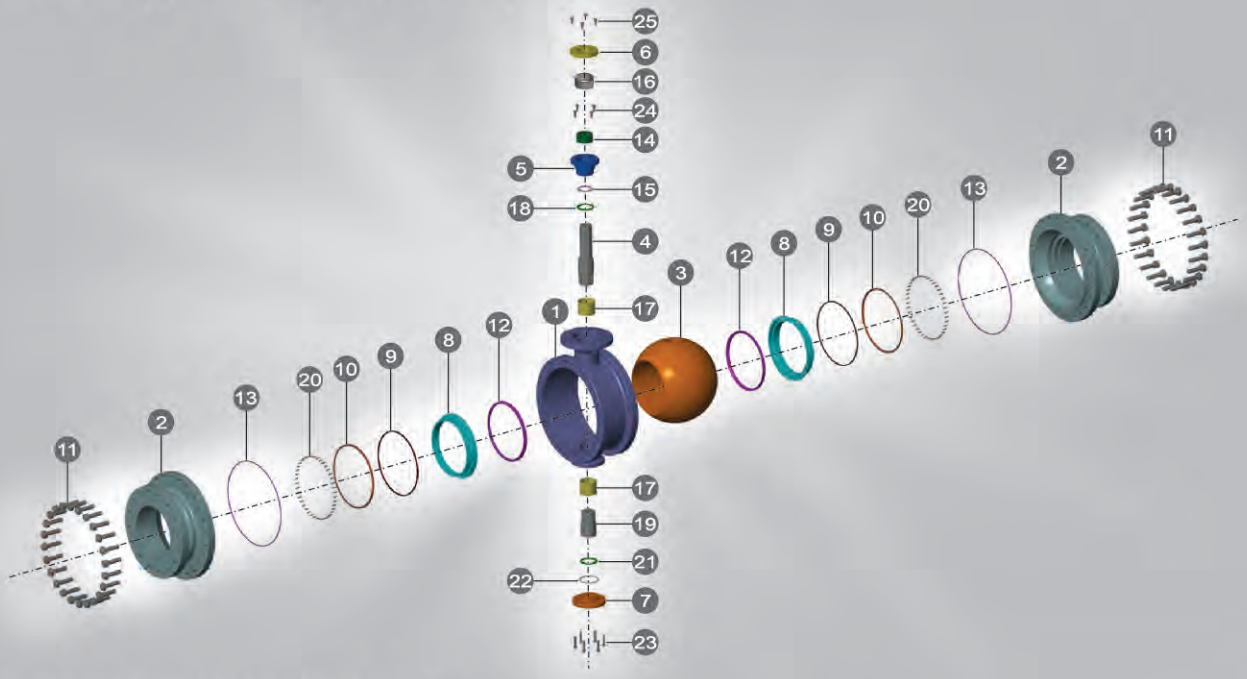
Most severe applications are accompanied by high temperature. high abrasion. or high pressure using conditions. In order to make valves withstand these tough services. the balls and seats may need to be strengthened by another material. For this purpose, we built our own HVOF (High Velocity Oxygen Fuel) coating facility. to conltol the core of technology in the metal seat ball valve. The lower thermal energy preventing the metal deformation. and the higher kinetic energy increasing the strength and adhesion of the bond,offer unique actvantages over other hard face methods.

最嚴苛的應用伴隨著耐高溫、 耐磨耗、高使用條件的壓力。為了使閥門承受這些艱鉅的功能。閥球和閥座需要用其他材料加強。因此JDV建立了HVOF（高速火焰熔射）塗層設備。鞏固核心金屬座球閥技術的發展。較低的熱能可防止金屬形變。較高的動能會增加粘合性能和塗層性能，與其他表面硬化處理相比，具有獨特的優勢。

JDV Standard Coatings　JDV標準塗料

Series	Ball Coating	Seat Coating	Max. Temperature	Hardness	Applications 應用領域
SH1	Tungsten Carbide	Tungsten Carbide	842 °F 450 °C	HCR70	Excellent for high temperature, high wearing, and corrosion resistance. 適用於耐高溫、耐磨損和抗腐蝕性能。
SH2	Chrome Carbide	Chrome Carbide	932 °F 500 °C	HCR60	Excellent for high temperature cavitation, abrasion and sliding wear. Good for hot gas and corrosion resistance. 對耐高溫、耐腐蝕、耐磨損具有優異的性能對高溫氣體和耐腐蝕性具有良好的性能。

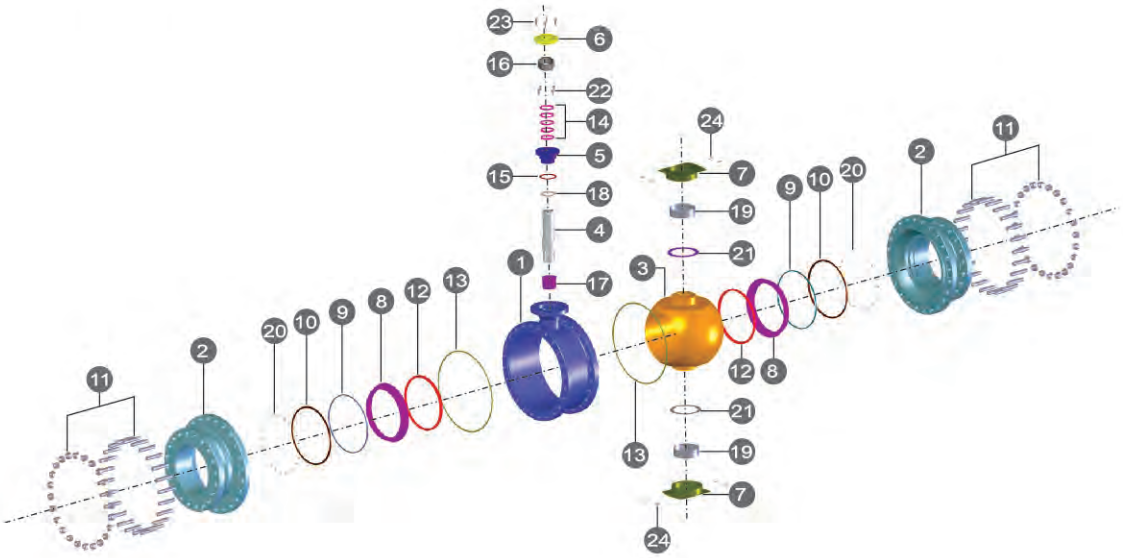
JBT-F Type 2"~14" (DN50~DN350)



STANDARD MATERIALS 材質表

NO	PART NAME	MATERIAL		
1	BODY 閥體	A216-WCB	A351-CF8	A351-CF8M
2	CAP 閥蓋	A216-WCB	A351-CF8	A351-CF8M
3	BALL 閥球	A351-CF8	A351-CF8	A351-CF8M
4	STEM 閥桿	A276-304	A276-304	A276-316
5	BODY GLAND 中軸壓板	A216-WCB	A351-CF8	A351-CF8M
6	GLAND 中口牛楠	A216-WCB	A351-CF8	A351-CF8M
7	BEARING RETAINER 底部封蓋	A216-WCB	A351-CF8	A351-CF8M
8	SEAT RING 閥座環	A351-CF8	A351-CF8	A351-CF8M
9	SEAT RING SEAL 止洩壓環迫緊	GRAPHITE	GRAPHITE	GRAPHITE
10	SEAT RING RETAINER 止洩壓環	A351-CF8	A351-CF8	A351-CF8M
11	BOLT & NUT 螺栓&螺母	A193-B7 & A194-7	A193-B8 & A194-8	A193-B8 & A194-8
12	SEAT 閥座	G-PTFE/TFM-1600	G-PTFE/TFM-1600	G-PTFE/TFM-1600
13	BODY GASKET 閥座密封墊	316SS+GRAPHITE	316SS+GRAPHITE	316SS+GRAPHITE
14	GLAND PACKING 壓蓋填料	GRAPHITE	GRAPHITE	GRAPHITE
15	GLAND THRUST WASHER 牛楠小薄片	GRAPHITE	GRAPHITE	GRAPHITE
16	GLAND BEARING 牛楠襯套	G-PTFE	G-PTFE	G-PTFE
17	STEM BEARING 軸襯套	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
18	STEM THRUST WASHER 中軸墊片	G-PTFE	G-PTFE	G-PTFE
19	TRUNNION STEM 支撐軸	A276-304	A276-304	A276-316
20	SPRING 彈簧	INCONEL® X-750	INCONEL® X-750	INCONEL® X-750
21	TRUNNION STEM WASHER 支撐軸墊片	G-PTFE	G-PTFE	G-PTFE
22	TRUNNION STEM GASKET 小薄片	GRAPHITE	GRAPHITE	GRAPHITE
23	RETAINER BOLT 底部封蓋螺絲	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
24	BODY GLAND BOLT 中軸壓板螺絲	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
25	GLAND BOLT 牛楠螺絲	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

JBT-F Type 16"~24"(DN400~DN600)

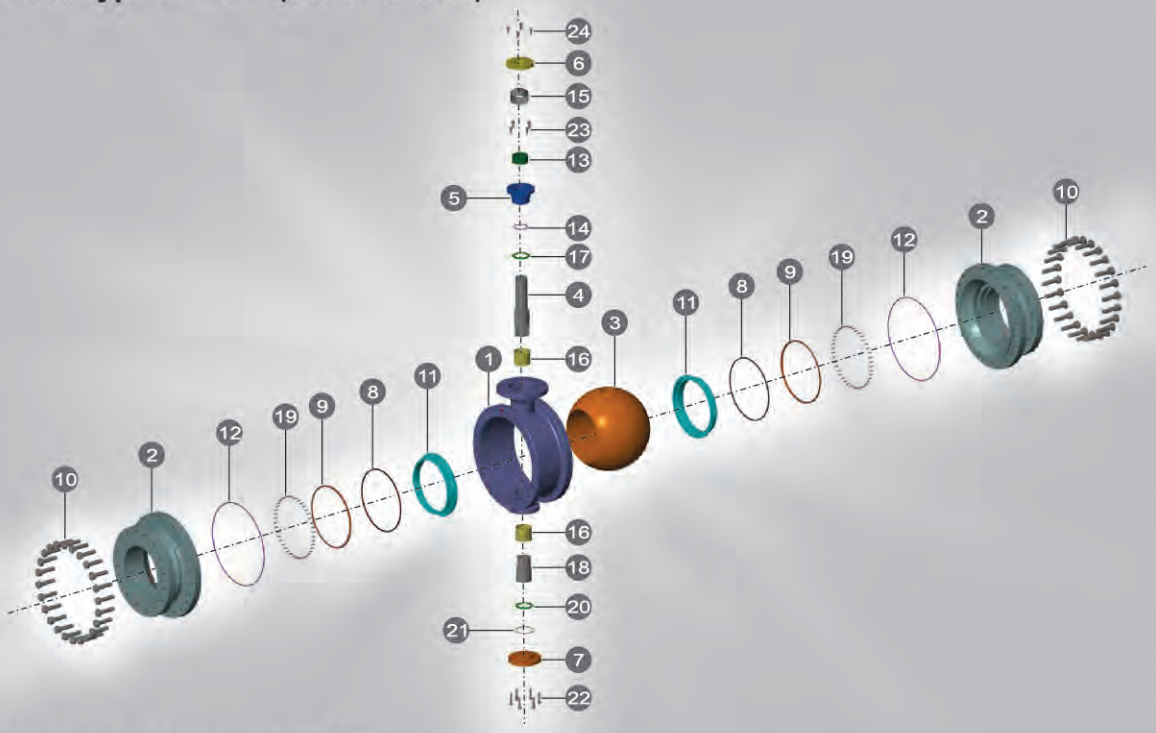


STANDARD MATERIALS 材質表

NO	PART NAME	MATERIAL		
1	BODY 閥體	A216-WCB	A351-CF8	A351-CF8M
2	CAP 閥蓋	A216-WCB	A351-CF8	A351-CF8M
3	BALL 閥球	A351-CF8	A351-CF8	A351-CF8M
4	STEM 閥桿	A276-304	A276-304	A276-316
5	BODY GLAND 中軸壓板	A216-WCB	A351-CF8	A351-CF8M
6	GLAND 中口牛楠	A216-WCB	A351-CF8	A351-CF8M
7	TRUNNION 球軸固定件	A216-WCB	A351-CF8	A351-CF8M
8	SEAT RING 閥座環	A351-CF8	A351-CF8	A351-CF8M
9	SEAT RING SEAL 止洩壓環迫緊	GRAPHITE	GRAPHITE	GRAPHITE
10	SEAT RING RETAINER 止洩壓環	A351-CF8	A351-CF8	A351-CF8M
11	BOLT & NUT 螺栓&螺帽	A193-B7 & A194-7	A193-B8 & A194-8	A193-B8 & A194-8
12	SEAT 閥座	G-PTFE/TFM-1600	G-PTFE/TFM-1600	G-PTFE/TFM-1600
13	BODY GASKET 閥體密封墊	316SS+GRAPHITE	316SS+GRAPHITE	316SS+GRAPHITE
14	GLAND PACKING 壓蓋填料	GRAPHITE	GRAPHITE	GRAPHITE
15	GLAND THRUST WASHER 牛楠小薄片	GRAPHITE	GRAPHITE	GRAPHITE
16	GLAND BEARING 牛楠襯套	G-PTFE	G-PTFE	G-PTFE
17	STEM BEARING 軸襯套	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
18	STEM THRUST WASHER 中軸墊片	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
19	TRUNNION BEARING 球軸襯套	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
20	SPRING 彈簧	INCONEL® X-750	INCONEL® X-750	INCONEL® X-750
21	WASHER 墊圈	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
22	BODY GLAND BOLT 中軸壓板螺絲	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
23	GLAND BOLT 牛楠螺絲	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
24	PIN 插銷	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

The above materials may be changed with different using conditions.
以上閥門部件的材質為標準配置,可根據客戶需求和工況選擇其他材質

JBT-M Type 2"~14" (DN50~DN350)

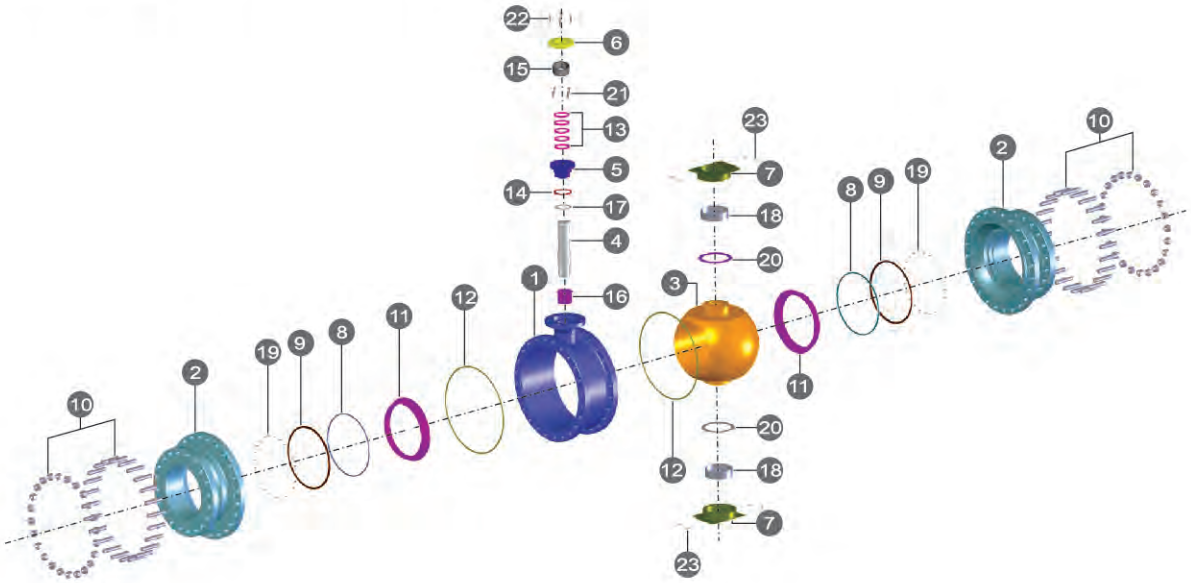


STANDARD MATERIALS 材質表

NO	PART NAME	MATERIAL		
1	BODY 閥體	A216-WCB	A351-CF8	A351-CF8M
2	CAP 閥蓋	A216-WCB	A351-CF8	A351-CF8M
3	BALL 閥球	A351-CF8+HCR(1)/TC(1)/CRC(1)	A351-CF8+HCR/TC/CRC	A351-CF8M+HCR/TC/CRC
4	STEM 閥桿	A564-630 (Hh1150)	A560-630 (HH1150)	A638-S66286
5	BODY GLAND 中軸壓板	A216-WCB	A351-CF8	A351-CF8M
6	GLAND 中口牛楠	A216-WCB	A351-CF8	A351-CF8M
7	BEARING RETAINER 底部封蓋	A216-WCB	A351-CF8	A351-CF8M
8	SEAT RING SEAL 止洩壓環迫緊	GRAPHITE	GRAPHITE	GRAPHITE
9	SEAT RING RETAINER 止洩壓環	A351-CF8	A351-CF8	A351-CF8M
10	BOLT & NUT 螺栓&螺帽	A193-B7 & A194-7	A193-B8 & A194-8	A193-B8 & A194-8
11	SEAT 閥座	A351-CF8+STELLITE® /TC/CRC	A351-CF8+STELLITE® /TC/CRC	A351-CF8M+STELLITE® /TC/CRC
12	BODY GASKET 閥座密封墊	316SS+GRAPHITE	316SS+GRAPHITE	316SS+GRAPHITE
13	GLAND PACKING 壓蓋填料	GRAPHITE	GRAPHITE	GRAPHITE
14	GLAND THRUST WASHER 牛楠小薄片	GRAPHITE	GRAPHITE	GRAPHITE
15	GLAND BEARING 牛楠襯套	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
16	STEM BEARING 軸襯套	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
17	STEM THRUST WASHER 中軸墊片	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
18	TRUNNION BEARING 軸襯套	A564-630 (HH1150)	A564-630 (HH1150)	A638-S66286
19	SPRING 彈簧	INCONEL® X-750	INCONEL® X-750	INCONEL® X-750
20	TRUNNION STEM WASHER 支撐軸墊片	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
21	TRUNNION STEM GASKET 小薄片	GRAPHITE	GRAPHITE	GRAPHITE
22	RETAINER BOLT 襯套螺絲	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
23	BODY GLAND BOLT 中軸壓板螺絲	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
24	GLAND BOLT 牛楠螺絲	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

Notes:
(1) HCr = Hard Chrome 鍍硬鉻　TC = Tungsten Carbide 碳化鎢　CRC = Chrome Carbide 碳化鉻

JBT-M Type 16"~24"(DN400~DN600)

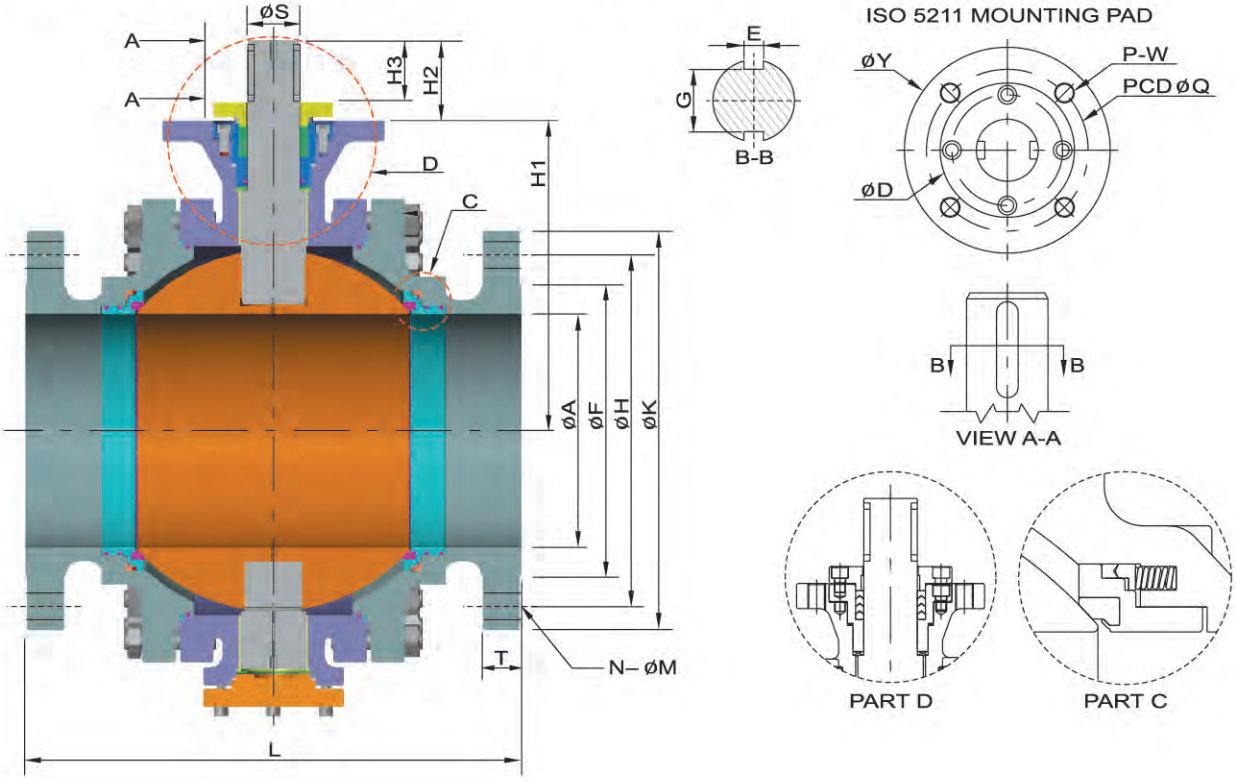


STANDARD MATERIALS 材質表

NO	PART NAME	MATERIAL		
1	BODY 閥體	A216-WCB	A351-CF8	A351-CF8M
2	CAP 閥蓋	A216-WCB	A351-CF8	A351-CF8M
3	BALL 閥球	A351-CF8+HCR/TC/CRC	A351-CF8+HCR/TC/CRC	A351-CF8M+HCR/TC/CRC
4	STEM 閥桿	A564-630 (HH1150)	A564-630 (HH1150)	A638-S66286
5	BODY GLAND 中軸壓板	A216-WCB	A351-CF8	A351-CF8M
6	GLAND 中口牛楠	A216-WCB	A351-CF8	A351-CF8M
7	TRUNNION 球軸固定件	A216-WCB	A351-CF8	A351-CF8M
8	SEAT RING SEAL 止洩壓環迫緊	GRAPHITE	GRAPHITE	GRAPHITE
9	SEAT RING RETAINER 止洩壓環	A351-CF8	A351-CF8	A351-CF8M
10	BOLT & NUT 螺栓&螺帽	A193-B7 & A194-7	A193-B8 & A194-8	A193-B8 & A194-8
11	SEAT 閥座	A351-CF8+STELLITE® /TC/CRC	A351-CF8+STELLITE® /TC/CRC	A351-CF8M+STELLITE® /TC/CRC
12	BODY GASKET 閥體密封墊	316SS+GRAPHITE	316SS+GRAPHITE	316SS+GRAPHITE
13	GLAND PACKING 壓蓋填料	GRAPHITE	GRAPHITE	GRAPHITE
14	GLAND THRUST WASHER 小薄片	GRAPHITE	GRAPHITE	GRAPHITE
15	GLAND BEARING 牛楠襯套	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
16	STEM BEARING 軸襯套	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
17	STEM THRUST WASHER 中軸墊片	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
18	TRUNNION BEARING 球軸襯套	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
19	SPRING 彈簧	INCONEL® X-750	INCONEL® X-750	INCONEL® X-750
20	WASHER 墊片	METAL+HARD FACE	METAL+HARD FACE	METAL+HARD FACE
21	BODY GLAND BOLT 中軸壓板螺絲	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
22	GLAND BOLT 牛楠螺絲	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
23	PIN 插銷	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

The above materials may be changed with different using conditions.
以上閥門部件的材質為標準配置,可根據客戶需求和工況選擇其他材質

JBT-F / JBT-M Type 2"~14" (DN50~DN350)



DIMENSIONS (ASME CLASS 150) (mm)

SIZE		A	F	H	K	M	N	L	T	H1	H2	H3	S	E	G	Q	W	P	Y	D	Wt (Kg)
50	2"	50	92	120.5	152	19	4	178	15.9	116.5	60	40	27	8	17	102	M10	4	130	73	17.3
80	3"	76	127	152.5	190	19	4	203	19.1	155.5	61	40	36.3	10	26.3	102	M10	4	130	85	31
100	4"	100	157	190.5	229	19	8	229	23.9	181	84	60	40	10	30	125	M12	4	153	100	50.7
150	6"	150	216	241.5	279	22	8	394	25.4	235	91	70	48	14	37	165	M20	4	210	125	119
200	8"	201	270	298.5	343	22	8	457	28.6	300	100	75	60	18	46	165	M20	4	210	128	210
250	10"	252	324	362	406	25	12	533	30.2	340	100	75	60	18	46	165	M20	4	210	128	318
300	12"	303	381	432	483	25	12	610	31.8	405	120	95	70	20	54	254	M16	8	290	156	490
350	14"	334	413	476.5	533	29	12	686	35.0	438.5	146	110	75	20	59	254	M16	8	290	170	630

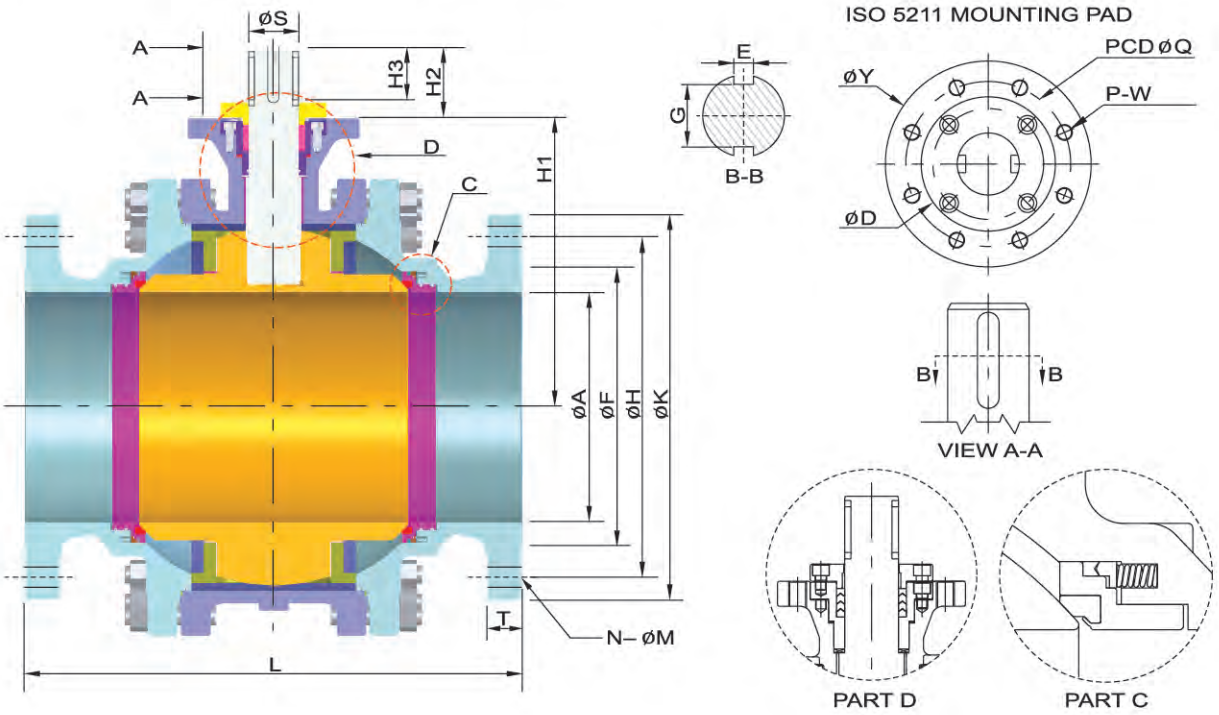
DIMENSIONS (ASME CLASS 300) (mm)

SIZE		A	F	H	K	M	N	L	T	H1	H2	H3	S	E	G	Q	W	P	Y	D	Wt (Kg)
50	2"	50	92	127	165	19	8	216	22.3	116.5	60	40	27	8	17	102	M10	4	130	73	21.5
80	3"	76	127	168	210	22	8	282	28.6	155.5	61	40	36.3	10	26.3	102	M10	4	130	85	47
100	4"	100	157	200	254	22	8	305	31.8	181	84	60	40	10	30	125	M12	4	153	100	74.8
150	6"	150	216	270	318	22	12	403	36.6	235	91	70	48	14	37	165	M20	4	210	125	150
200	8"	201	270	330	381	25	12	502	41.3	300	100	75	60	18	46	165	M20	4	210	128	268.5
250	10"	252	324	387.5	444	29	16	568	47.7	340	100	75	60	18	46	254	M16	8	290	128	432
300	12"	303	381	451	521	32	16	648	50.8	405	120	95	70	20	54	254	M16	8	290	156	657
350	14"	334	413	514.5	584	32	20	762	54.0	438.5	146	110	75	20	59	254	M16	8	290	170	855

DIMENSIONS (ASME CLASS 600) (mm)

SIZE		A	F	H	K	M	N	L	T	H1	H2	H3	S	E	G	Q	W	P	Y	D	Wt (Kg)
50	2"	50	92	127	165	19	8	292	31.8	116.5	60	40	27	8	17	102	M10	4	130	73	28.3
80	3"	76	127	168	210	22	8	356	38.2	155.5	61	40	36.3	10	26.3	102	M10	4	130	85	61.7
100	4"	100	157	216	273	25	8	432	44.5	181	84	60	40	10	30	125	M12	4	153	100	108.7
150	6"	150	216	292	356	29	12	559	54.1	235	91	70	48	14	37	165	M20	4	210	125	219
200	8"	201	270	349	419	32	12	660	62	300	100	75	60	18	46	165	M20	4	210	128	437
250	10"	252	324	432	508	35	16	787	69.9	340	100	75	60	18	46	254	M16	8	290	128	645
300	12"	303	381	489	559	35	20	838	73.1	405	120	95	70	20	54	254	M16	8	290	156	870
350	14"	334	413	527	603	38	20	889	76.2	438.5	146	110	75	20	59	254	M16	8	290	170	1145

JBT-F / JBT-M Type 16"~24" (DN400~DN600)



DIMENSIONS (ASME CLASS 150) (mm)

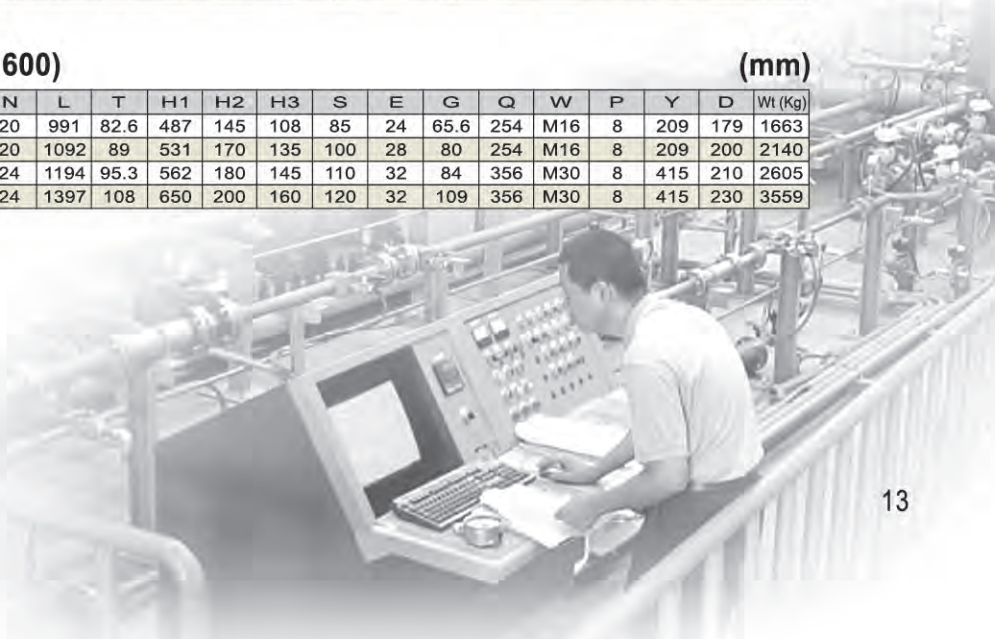
SIZE		A	F	H	K	M	N	L	T	H1	H2	H3	S	E	G	Q	W	P	Y	D	Wt (Kg)
400	16"	387	470	539.8	597	29	16	762	36.6	487	145	108	85	24	65.6	254	M16	8	209	179	885
450	18"	438	533	578	635	32	16	864	39.7	531	170	135	100	28	80	254	M16	8	209	200	1158
500	20"	489	584	635	698	32	20	914	42.7	562	180	145	110	32	84	356	M30	8	415	210	1450
600	24"	589	692	749.5	813	35	20	1067	47.6	650	200	160	120	32	109	356	M30	8	415	230	2030

DIMENSIONS (ASME CLASS 300) (mm)

SIZE		A	F	H	K	M	N	L	T	H1	H2	H3	S	E	G	Q	W	P	Y	D	Wt (Kg)
400	16"	387	470	571.5	648	35	20	838	57.2	487	145	108	85	24	65.6	254	M16	8	209	179	1200
450	18"	438	533	628.7	711	35	24	914	60.3	531	170	135	100	28	80	254	M16	8	209	200	1574
500	20"	489	584	686	775	35	24	991	63.5	562	180	145	110	32	84	356	M30	8	415	210	1966
600	24"	589	692	813	914	41	24	1143	69.9	650	200	160	120	32	109	356	M30	8	415	230	2688

DIMENSIONS (ASME CLASS 600) (mm)

SIZE		A	F	H	K	M	N	L	T	H1	H2	H3	S	E	G	Q	W	P	Y	D	Wt (Kg)
400	16"	387	470	603	686	41	20	991	82.6	487	145	108	85	24	65.6	254	M16	8	209	179	1663
450	18"	438	533	654	743	45	20	1092	89	531	170	135	100	28	80	254	M16	8	209	200	2140
500	20"	489	584	724	813	45	24	1194	95.3	562	180	145	110	32	84	356	M30	8	415	210	2605
600	24"	589	692	838	940	51	24	1397	108	650	200	160	120	32	109	356	M30	8	415	230	3559



JDV CONTROL VALVES

API 6D

ISO 9001

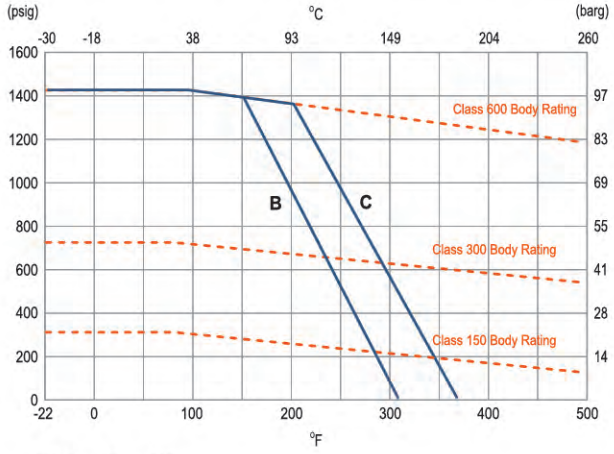
CE

Cv VALUES CV值

Size	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Cv	501	1158	2118	5074	9337	14590	21802	29675	38760	51058	63035	90770

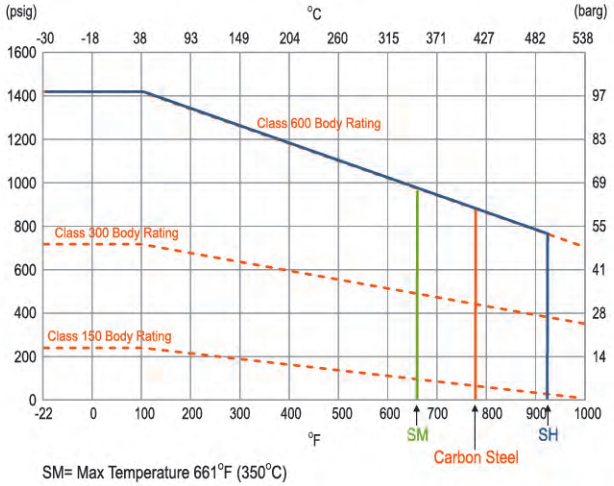
TEMPERATURE & PRESSURE DIAGRAM 溫度&壓力曲線

JBT-F 2"~24" (DN50~DN600)



B= Glass Fiber PTFE
C= Carbon Fiber PTFE

JBT-M 2"~24" (DN50~DN600)



SM= Max Temperature 661°F (350°C)
SH= Max Temperature 932°F (500°C)
Carbon Steel Max Temperature 797°F (425°C)

HOW TO ORDER 如何訂購

JBT-F → A → B → C → D → E → F → G → H

Ex: **JBT-F → C1 → 04 → C → G → 03 → 250 → FGES → RF**

A. SPECIFICATION

C1	ASME CLASS 150
C2	ASME CLASS 300
C3	ASME CLASS 600
C4	ASME CLASS 900
C5	ASME CLASS 1500
C6	ASME CLASS 2500

B. BODY MAT'L

02	WCB (1.0619)
03	CF8 (1.4308)
04	CF8M (1.4408)
05	CF3 (1.4306)
06	CF3M (1.4404)
07	CG8M (1.4412)
11	LCB (1.1138)
12	LCC (1.7219)
15	CD3MN (1.4470)

C. BALL

A	CF8
C	CF8M
D	CF3
E	CF3M
F	CG8M
I	CD3MN

D. SEAT MAT'L

G	G-PTFE (15% GLASS FIBER+PTFE)
C	C-PTFE (15% CARBON+PTFE)
S	S-PTFE (50% 316+PTFE)
T	TFM-1600®
E	PEEK

E. STEM MAT'L

02	304
03	316
05	317
08	316L
10	S31803

F. SIZE

050	2"
080	3"
100	4"
150	6"
200	8"
250	10"
300	12"
350	14"
400	16"
450	18"
500	20"
600	24"

G. OPTION

F	FIRE SAFE
L	EXTENDED STEM
I	LIVE LOADING
H	LEVER
G	GEAR
A	BARE SHAFT
N	NACE
ES	EMERGENCY GREASE SEALS
DB	DOUBLE BLOCK & BLEED
DP	DOUBLE PISTON
DR	DRAIN
PG	PURGE
CY	CRYOGENIC DESIGN -40~-320 °F (-40~-196 °C)

H. END CONNECTION

RF	RF FLANGED
RT	RTJ FLANGED

JBT-M → A → B → C → D → E → F → G → H

Ex: **JBT-M → C1 → 04 → C → 35 → 250 → FGES → RF → SH2**

A. SPECIFICATION

C1	ASME CLASS 150
C2	ASME CLASS 300
C3	ASME CLASS 600
C4	ASME CLASS 900
C5	ASME CLASS 1500
C6	ASME CLASS 2500

B. BODY MAT'L

02	WCB (1.0619)
03	CF8 (1.4308)
04	CF8M (1.4408)
05	CF3 (1.4306)
06	CF3M (1.4404)
07	CG8M (1.4412)
11	LCB (1.1138)
12	LCC (1.7219)
15	CD3MN (1.4470)

C. BALL & SEAT MAT'L

A	CF8
C	CF8M
D	CF3
E	CF3M
F	CG8M
I	CD3MN

D. STEM MAT'L

02	304
03	316
05	317
08	316L
10	S31803
22	630
35	S66286

E. SIZE

050	2"
080	3"
100	4"
150	6"
200	8"
250	10"
300	12"
350	14"
400	16"
450	18"
500	20"
600	24"

F. OPTION

F	FIRE SAFE
L	EXTENDED STEM
I	LIVE LOADING
H	LEVER
G	GEAR
A	BARE SHAFT
N	NACE
ES	EMERGENCY GREASE SEALS
DB	DOUBLE BLOCK & BLEED
DP	DOUBLE PISTON
DR	DRAIN
PG	PURGE
CY	CRYOGENIC DESIGN -40~-320 °F (-40~-196 °C)

G. END CONNECTION

RF	RF FLANGED
RT	RTJ FLANGED

H. TEMPERATURE

SH	-20~661 °F (-29~350 °C) BALL W/HCR SEAT W/STELLITE®
SH1	-20~842 °F (-29~450 °C) BALL W/TC SEAT W/TC
SH2	-20~932 °F (-29~500 °C) BALL W/CRC SEAT W/CRC

※ 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。

HOW TO ORDER

JDV GROUP

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JDV CONTROL VALVES TGT ZUERCHER TECHNIK

6D-0539 0035

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