JDV CONTROL VALVES

QUALITY SWISS

JTE-M Type

Triple Offset Metal-Seated Butterfly Valve

三偏心金屬密封蝶阀

TAIWAN EXCELLENCE 2015

We link all you need
and more than you expect.

JDV
CONTROL
VALVES

JTE-M

Triple Offset Metal Seat Butterfly Valve
三偏心金属密封蝶阀

Wafer/Lug/Flanged Ends ASME CLASS 150/300/600/900/1500/2500
对夹/多耳/双法兰

Industrial Fields:
应用产业

Oil & Gas
石油和天然气
Refinery / Petrochemical
石油精炼/石化业
Chemical
化工业
Pulp & Paper
造纸业
Power Plant
发电厂
Steel Mill
炼钢厂
Food
食品业
Mining
采矿业

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.

采用创新三偏心几何革命性的设计及独特的双倾斜阀座锥轴构件，其密封系统运用JTEM三偏心蝶阀的独特金属密封设计。专门针对恶劣及极端的工作环境及需求，特别因应高温、低温、高压降和高磨损介质输送作业，此项目提供了无与伦比的高效性能和零泄漏的环保低污染设计，以满足最具挑战性行业之最高效能需求。通过业界安全认证最高标准 SIL3，安全性及操作性无与伦比。

THE TRIPLE OFFSET GEOMETRY
三偏心几何原理

1st Offset 第一偏

The centerline of the stem is moved behind the seat axis, in order to offer an optimum sealing contact.
阀杆的中心线在阀座轴线后方移动，提供最佳的密封接触。

2nd Offset 第二偏

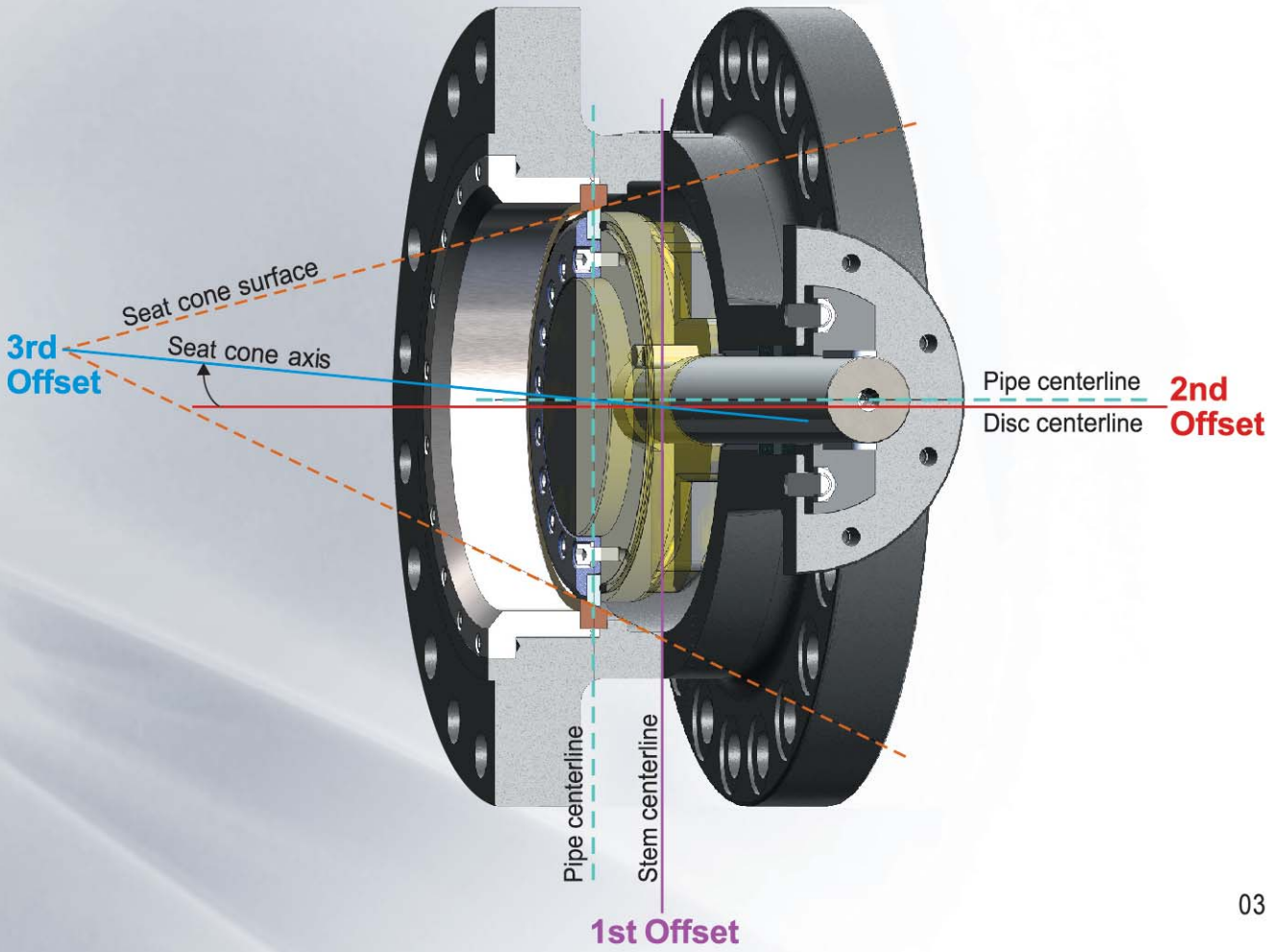
The centerline of the disc is offset from the centerline of the valve body, allowing the disc seal to move away freely during the opening.
碟板的中心线偏离阀体的中心线，允许碟板密封件在打开过程中自由移动。

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.

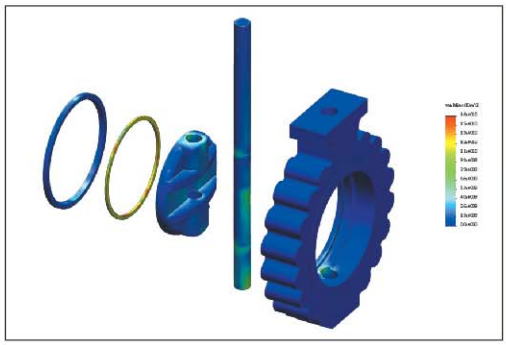
在典型的三偏心设计中，座锥的轴线从阀孔的中心线倾斜，以最大程度地减少操作过程中阀座与密封垫接触表面的摩擦并保持密封完整性。
JDV的创新型双倾斜三偏心设计继承了典型设计的优势，并对其进行了优化，以提供最轻的扭矩，零泄漏设计，更长的使用寿命和易于维护的过程。



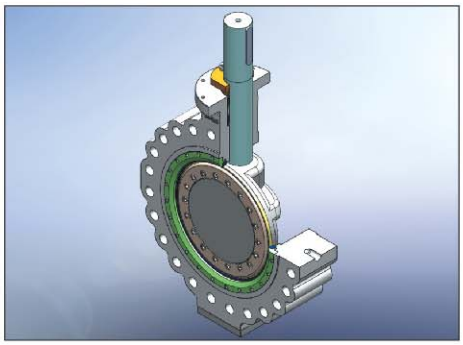
Applicable Standards 适用标准

1.Body Material(阀体材质): 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(压力等级): ASME CLASS 150/300/600, 900/1500/2500 are on request.
4.End Connections(连接方式): Wafer / Lug / Flanged Short Pattern and Long Pattern.
5.Temperature Range(温度范围): -320~932°F (-196~500°C), higher temperature on request.
6.Design Standard(设计标准): API 609 / ASME B16.34 / BS EN 593 / EN 12516
7.Flanged Dimensions(法兰尺寸): 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(阀体强度标准): Complied with API 609 Sec. 4.9
10.Casting(铸造标准): MSS-SP-55
11.Marking(标记标准): MSS-SP-25 / EN 19
12.Mounting Pad(安装平台标准): ISO 5211
13.Screw Thread(螺纹标准): ASME B1.1 /BS 3643
14.Body Pressure Test(压力测试标准): API 598 / ISO 5208 / EN 12266-1
15.Seat Leakage Test(阀座泄漏测试标准): ANSI/FCI70-2 Class VI in standard, Zero leakage is available on request.
16.Cryogenic Temperature Test(低温测试标准): BS 6364
17.Fire Safe Design(防火安全设计标准): Certificated according to ISO 10497
18.Low Emission Design(低泄漏设计标准): Certificated according to ISA 93.00.01 / ISO 15848-1
VDI 2440 (TA-Luft)
19.Functional Safety Certification(安全认证): SIL3 (EC 61508 Parts 1-7:2010)

State-of-the-art Engineering 先进的工程学设计



Finate Factor Analysis 有效元素分析



SolidWorks 3D SolidWorks 3D 设计

Product Features 产品特色

1. Solid metal seat and seal ring providing a true metal-to-metal design that withstands abrasive mediums and the high pressure drop.
   实心金属座和密封环提供金属对接设计可承受高压及高磨损介质。
2. Separate seat design allowing an easy maintenance.
   可更换阀座设计利于设备维护。
3. Revolutionary double inclined design providing:
   a. Bi-directional in tight sealing b. Light torque c. Longer valve life cycle.
   革命性的双斜面设计提供：
   a. 双向紧密密封 b. 轻扭力 c. 自体适应的功能延长阀门生命周期。
4. Wide range of hard faces to seat and seal ring meeting the requirements of most using conditions.
   阀座和密封圈的硬度范围宽，满足大多数工况的使用条件。
5. Flexible metal seal ring precluding the jamming caused by thermal expansion to ensure a tight and safe sealing.
   弹性金属密封环解决热膨胀干扰，以确保最高安全性。
6. 1 piece stem design increasing the strength of the shaft and enhancing the valve life cycle.
   1-PC阀杆设计增加了轴承的强度，提高阀体生命周期。
7. Stem bearings ensuring the rigidity and stability of the shaft, and extending even more the valve life cycle.
   阀杆轴承确保了阀杆的刚性和稳定性，并延长了阀门的使用寿命。
8. Live-loading design increasing further an already long life cycle.
   动态负载设计进一步增加了阀门的使用寿命。
9. Low emission design with double stem packings preventing any packing leakage, even with the trickiest mediums.
   低泄漏设计，双重填料防止任何泄漏，即使最严苛的介质。
10. Optional leakage control device allowing the detection and removal of any hypothetical leakage from the packing.
    可选配的泄漏控制装置。
11. Emergency sealing injection device on request to restore the sealing integrity, should it be necessary.
    紧急密封修复装置可速效恢复密封完整性。
12. Anti-shear pin design enhancing the resistance of the stem under high drop pressure.
    抗剪力设计提升在高压力降压之阻力。
13. ISO 5211 Mounting pad.
    ISO 5211连接平台设计。
14. Anti-blowout stem design
    防飞出阀杆设计。
15. Anti-static design complying with API 609
    符合API 609的防静电设计。
16. Fire safe design certificated according to ISO 10497.
    防火设计依据ISO 10497认证。

Standard Design 标准设计

Seat

True Metal Design
全金属设计

Various optional hard faces.
多样化地金属密封面

Replaceable Design
可更换式设计

The design includes a separate seat, not welded on the valve body, allowing an easy maintenance
非焊接式的阀座设计，易于更换维修。

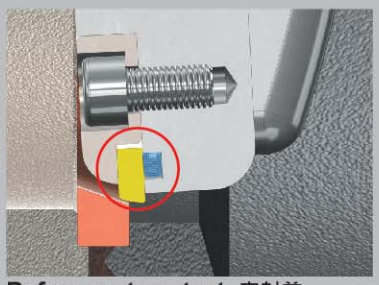
Seal Ring 密封环

Solid Metal Design
金属设计

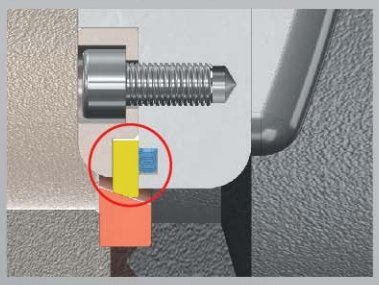
The solid metal design with hard face provides the most reliable performances in the toughest using conditions.
坚固的金属表面设计，在最严酷的使用条件下，提供最可靠的性能。

Flexible Design
灵活的设计

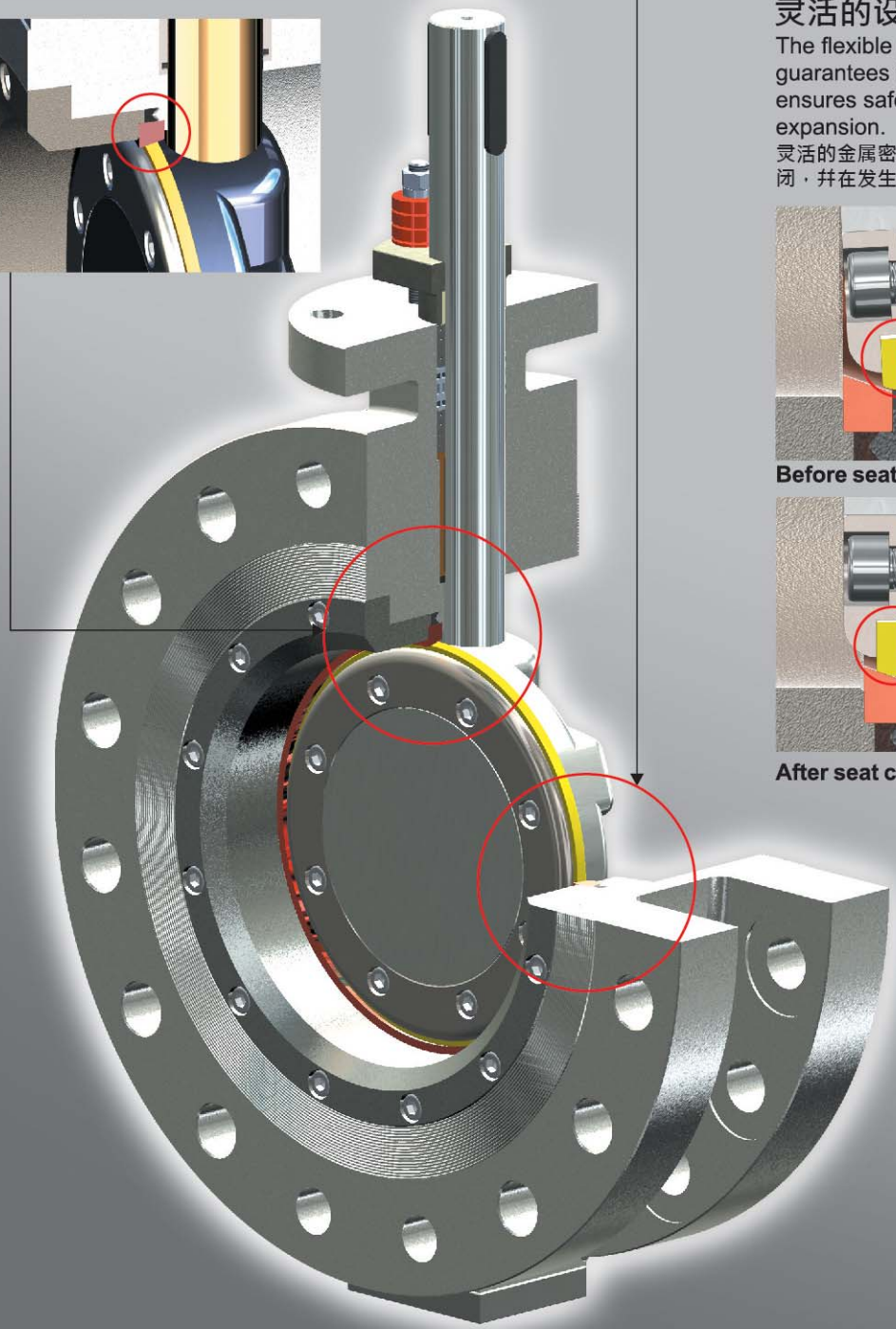
The flexible metal seal ring design guarantees the tightest shutoff and ensures safety in case of thermal expansion.
灵活的金属密封圈设计可确保紧密关闭，并在发生热膨胀时确保安全。



Before seat contact 密封前



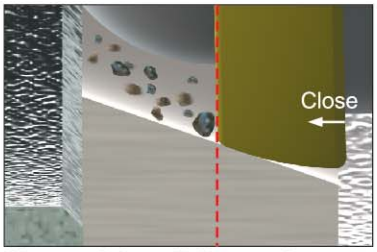
After seat contact 密封后



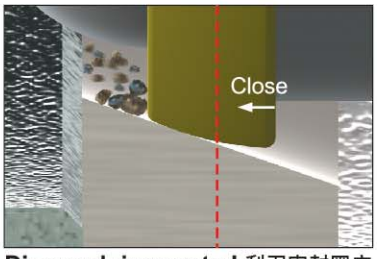
Standard Design 标准设计

Slideseal Design 具有滑动特征密封环的设计

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.
动态阀座斜锥设计。碟形密封圈滑入阀座关闭区域，这种滑动触摸提供出比典型的接触点还要有更好的密封效果。
另外，密封环是实心金属，使其能够扫掠清除残留在座椅表面上的颗粒，以双重固定紧密密封，使阀门的使用寿命更长。

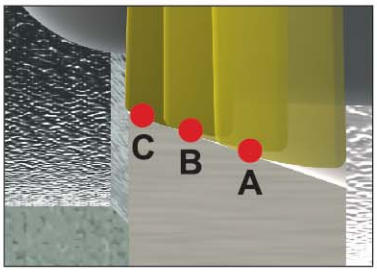


Disc seal ring sliding to close 刮刀式密封圈滑动以关闭



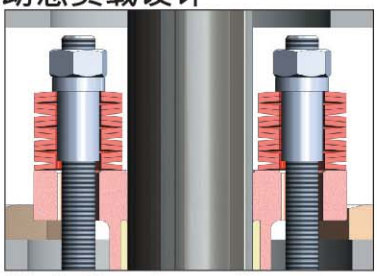
Disc seal ring seated 刮刀密封圈座

Adjustable Sealing Design 可调式密封设计

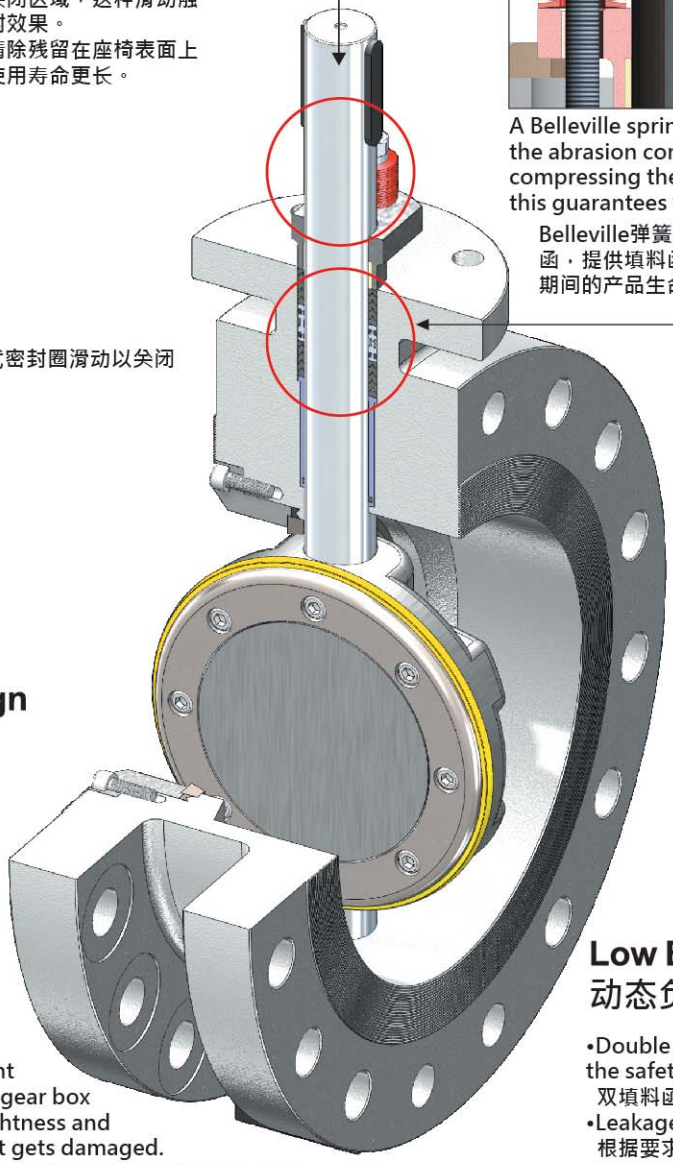


The double inclined cone design gives the possibility to adjust the contact point between seal ring and seat through the gear box or actuator. This ensures the shutoff tightness and extends the valve life cycle even the seat gets damaged.
双斜锥设计使通过齿轮箱或执行器调节密封圈与阀座之间的接触点成为可能。可确保在阀座受损时关断紧闭及建延长阀的寿命。

Live-loading Design 动态负载设计



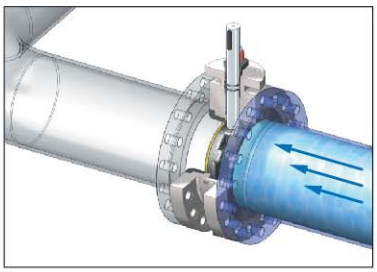
A Belleville spring provides the abrasion compensation by compressing the packing constantly; this guarantees the longest life cycle.
Belleville弹簧透过持续地的压缩填料函，提供填料函的磨损补偿；保证长期间的产品生命周期。



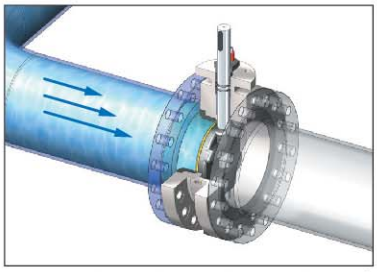
Low Emission Design 动态负载设计

- Double packing design guarantees the safety.
  双填料函设计确保安全
- Leakage detection on request.
  根据要求进行泄漏检测。
- Emergency sealing injection on request.
  根据要求提供紧急密封注入。

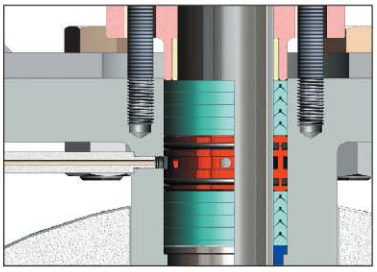
Bi-directional Tight Sealing Design 双向紧密密封设计



Preferred Direction 优先流向

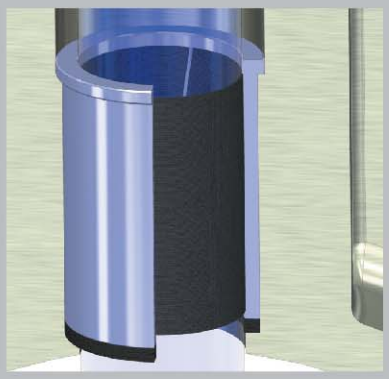


Non-preferred Direction 非优先流向

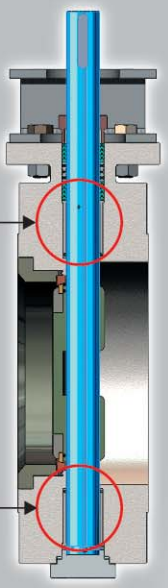


Standard Design 标准设计

High Cycle Stem Bushing
高频低扭矩轴套



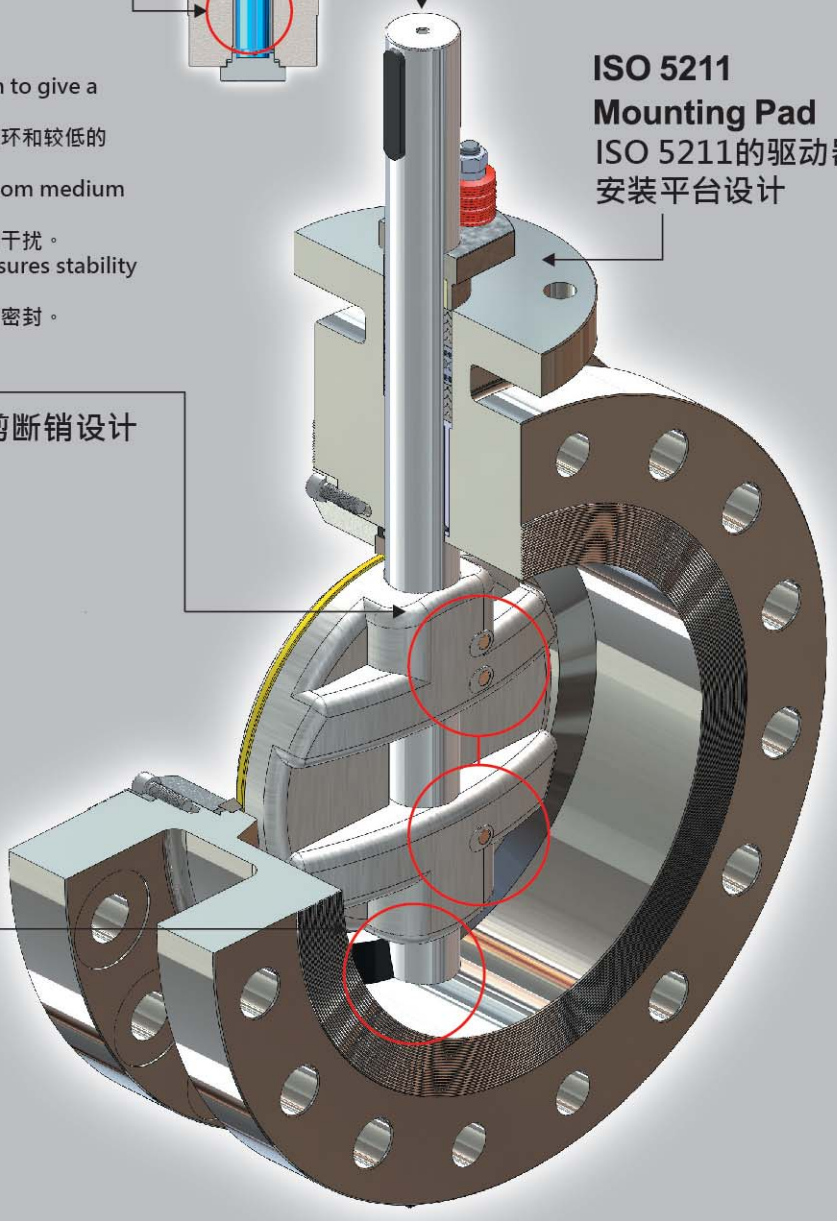
- Bearings provide excellent lubrication to give a longer lifecycle and a lower torque.
  轴套提供出色的润滑，以延长使用寿命循环和较低的扭矩。
- Double layers design protects stem from medium intrusion and jamming.
  双层设计保护阀杆来自中等程度的入侵和干扰。
- Disc sustained on top and bottom ensures stability and tight sealing.
  圆盘支撑在顶部和底部确保稳定性和紧密密封。



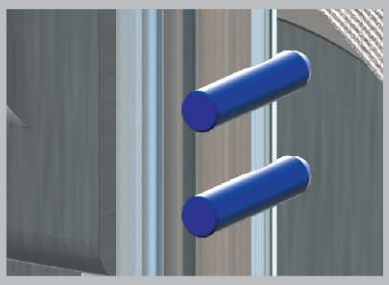
Single Piece Stem
一体式心轴

It gives the best strength to the stem against any kind of severe conditions.
心轴在任何恶劣条件下，都能提供最佳强度。

ISO 5211 Mounting Pad
ISO 5211的驱动器安装平台设计

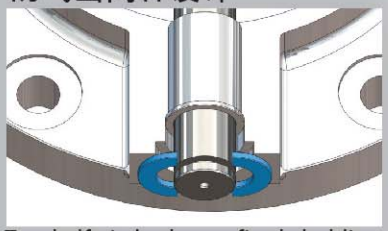


Anti-shear Pin Design
加强心轴于高压降力下的抗剪断销设计



Pins fixed in the stem side prevent the stem from being sheared under high pressure drop.
中轴与蝶片结合是以偏位方式打入键销避免PIN断裂问题。

Anti-blowout Design
防飞出阀杆设计



Two half-circle clamps firmly holding the bottom of the stem prevent it from blowing out or dropping.
两个半月形夹扣可坚固的扣住阀杆的底部以防阀杆飞出或掉落。

Highly Sophisticated Technology

高度尖端技术

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

我们的高质量设备和最新技术，既使是在最严苛的情况下，保证产品的最佳效能。

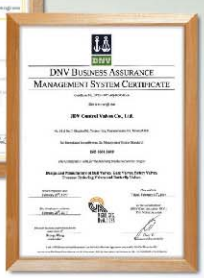
Strict Quality Control

严格的质量控制

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.

严格的质量控制程序已在每个生产过程并通过了最重要的认证，例如ISO 9001，CE / PEO，API 60，SIL3，ISO 15848ITA-Luft，ISO 10497等，以确保您的安全。

API 6D



ISO 9001

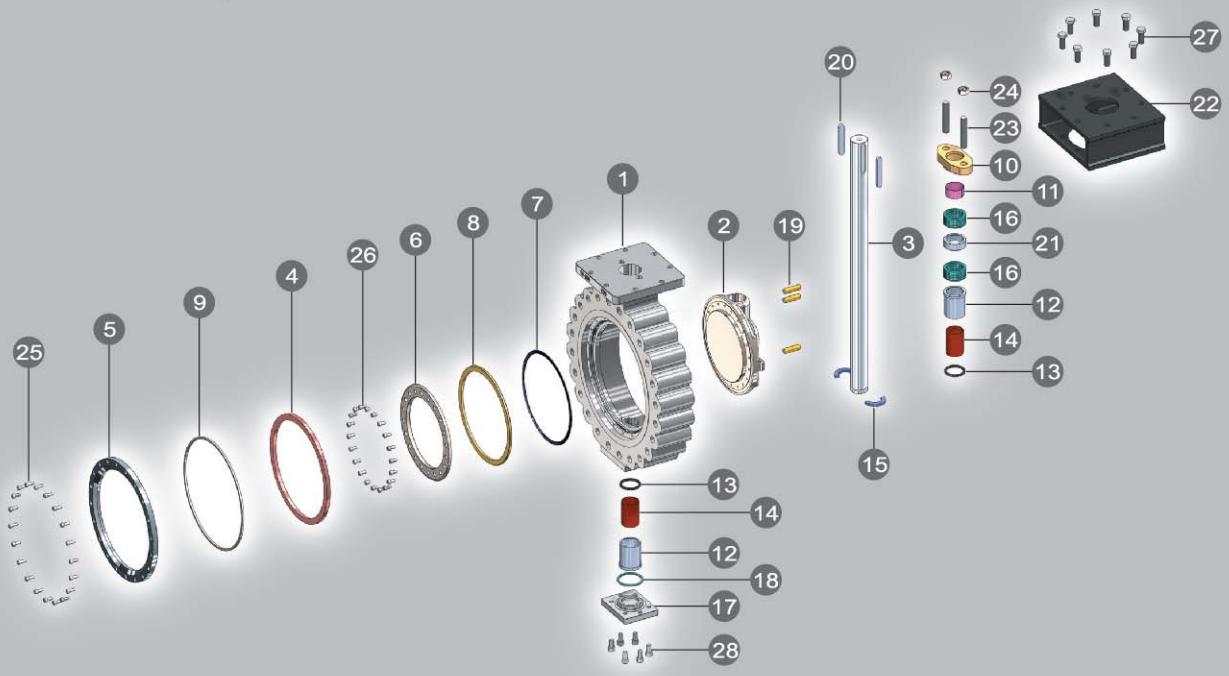
CE

SIL3

ISO 15848

ISO 10497

Technical Specifications



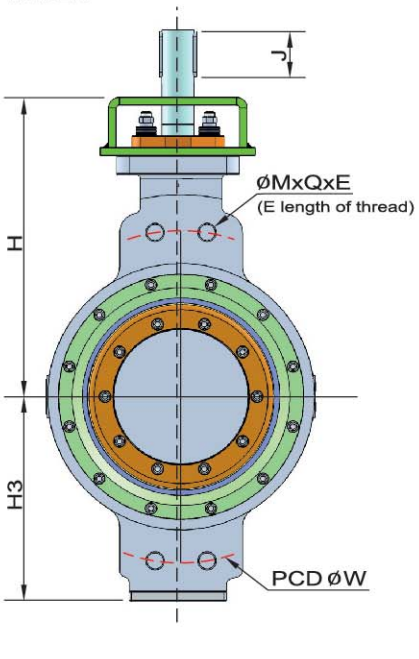
STANDARD MATERIALS 标准材料

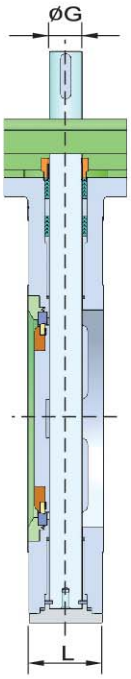
NO	PART NAME 料件名称/材质	SM		SH1	
		-20~572°F (-29~300°C)		-20~797°F (-29~425°C)	-20~932°F (-29~500°C)
1	BODY 阀体	A216-WCB	A351-CF8M	A216-WCB	A351-CF8M
2	DISC 碟版	A216-WCB	A351-CF8M	A351-CF8/CF8M	A351-CF8M
3	STEM 心轴	A564-630(HH1150)	A276-XM-19	A276-XM-19	A276-XM-19/S66286
4	SEAT 球垫	A182-F304	A182-F316+HARD FACE	F316+HARD FACE	A182-F316+HARD FACE
5	BODY RETAINER 本体侧盖	A216-WCB	A351-CF8M	A216-WCB	A351-CF8M
6	DISC RETAINER 碟版侧盖	A216-WCB	A351-CF8M	A216-WCB	A351-CF8M
7	DISC GASKET DISC迫紧	GRAPHITE+316SS	GRAPHITE+316SS	GRAPHITE+316SS	GRAPHITE+316SS
8	SEAL RING 密封环	A182-F51+HARD FACE		S66286+HARD FACE	
9	BODY GASKET 止泄压环迫紧	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
10	GLAND 压盖（中口牛楠）	A351-CF8	A351-CF8	A351-CF8	A351-CF8
11	GLAND BEARING 牛楠衬套	A240-316+PTFE		A240-316+HARD FACE	
12	STEM BUSHING 心轴套环	A276-316	A276-316	A276-316+HARD FACE	A276-316+HARD FACE
13	STEMRINGSEAL心轴止泄盘根	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
14	THRUST BEARING 轴衬套	TFE/COMPOSITE	TFE/COMPOSITE	N.A.	N.A.
15	THRUST WASHER 心轴底座	A240-316+HARD FACE	A240-316+HARD FACE	A240-316+HARD FACE	A240-316+HARD FACE
16	GLANDPACKING 中口迫紧	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
17	END COVER 底部封盖	A216-WCB	A351-CF8M	A351-CF8/CF8M	A351-CF8M
18	COVER GASKET 底部封盖迫紧	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
19	PIN 插销	A564-630 (HH1150)	A276-XM-19	A276-XM-19	A276-XM-19/S66286
20	KEY 键销	AISI-1045	AISI-1045	AISI-1045	AISI-1045
21	STEM RING 心轴套环	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 中口螺丝	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 RETAINERSCREW 本体螺丝	A193-B8	A193-B8	A193-B8M	A193-B8M
26	DISC RETAINER SCREW DISC螺丝	A193-B8	A193-B8	A193-B8M	A193-B8M
27	BRACKET SCREW 支架螺丝	A193-B8	A193-B8	A193-B8	A193-B8
28	END COVER SCREW 底部螺丝	A193-B8	A193-B8	A193-B8	A193-B8
※	MO (1)	HANDLE/GEAR BOX			

Notes:
(1) Options: AO: Automation / MO: Manual
注记:
（1）选项：AO：自动 /MO：手动

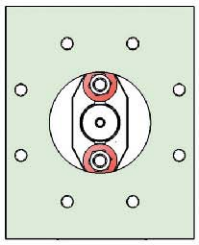
The above materials may be changed with different using conditions.
以上阀门部件可根据客户需求和工况选择其他材质

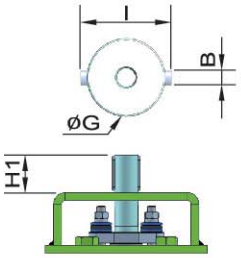
WAFER



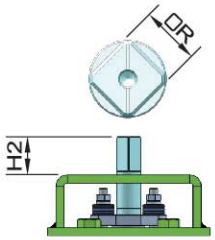


ISO 5211
Mounting Pad





AO



MO

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

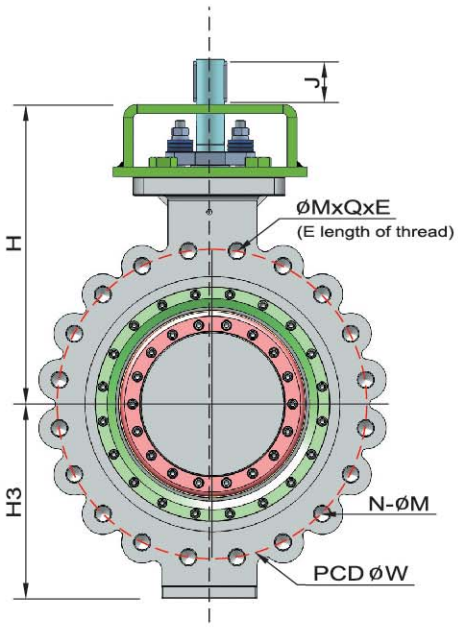
DIMENSIONS (ASME CLASS 300 WAFER) 尺寸 (mm)

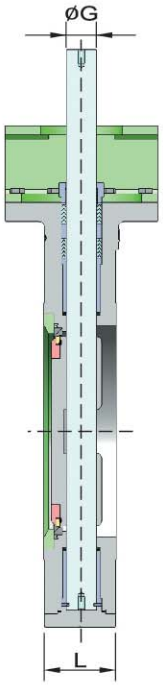
SIZE		W	M	Q	E	L	H	H1	H2	H3	□R	ØG	BxIxJ	ISO 5211	Wt (Kg)
80	3"	168.2	-	4	-	48	222	30	20	121	11	15	5x19x25	F10	9
100	4"	200.2	-	4	-	54	252	36	30	141	14	18	6x23x30	F10	14
150	6"	269.8	-	4	-	59	280	40	-	184	-	25	8x31x35	F10	21
200	8"	330.2	-	4	-	73	335	56	-	209	-	33	10x39x50	F14	38.2
250	10"	387.4	1"-8 UNC	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)

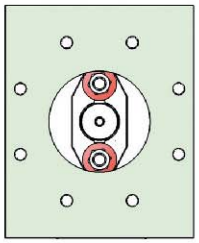
SIZE		W	M	Q	E	L	H	H1	H2	H3	□R	ØG	BxIxJ	ISO 5211	Wt (Kg)
80	3"	168.2	-	4	-	54	229	40	-	125	-	20	6x25x35	F10	17.5
100	4"	215.9	-	4	-	64	281	40	-	155	-	30	10x40x35	F14	27
150	6"	292.1	1"-8 UNC	4	17	78	375	65	-	204	-	40	10x46x60	F16	43
200	8"	349.3	1-1/8"-8 UN	4	19	102	393	80	-	229	-	45	14x52x70	F16	91
250	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

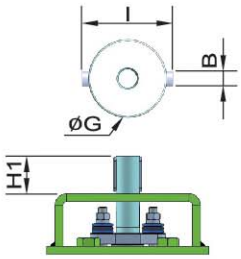
LUG



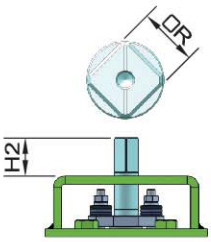


ISO 5211
Mounting Pad





AO



MO

DIMENSIONS (ASME CLASS 150 LUG) 尺寸 (mm)

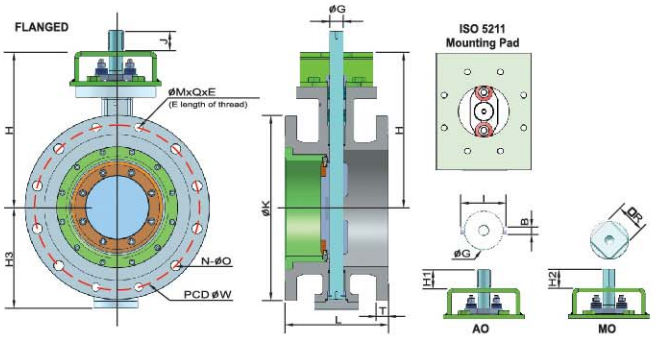
SIZE		W	M	Q	E	N	L	H	H1	H2	H3	□R	ØG	BxIxJ	ISO 5211	Wt (Kg)
80	3"	152.4	5/8"-11 UNC	-	-	4	48	212	30	30	111	11	15	5x19x25	F10	10
100	4"	190.5	5/8"-11 UNC	-	-	8	54	242	36	36	131	14	18	6x23x30	F10	15
150	6"	241.3	3/4"-10 UNC	-	-	8	57	262	36	36	159	14	19	6x24x30	F10	21.4
200	8"	298.5	3/4"-10 UNC	-	-	8	64	290	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	□R	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	□R	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)

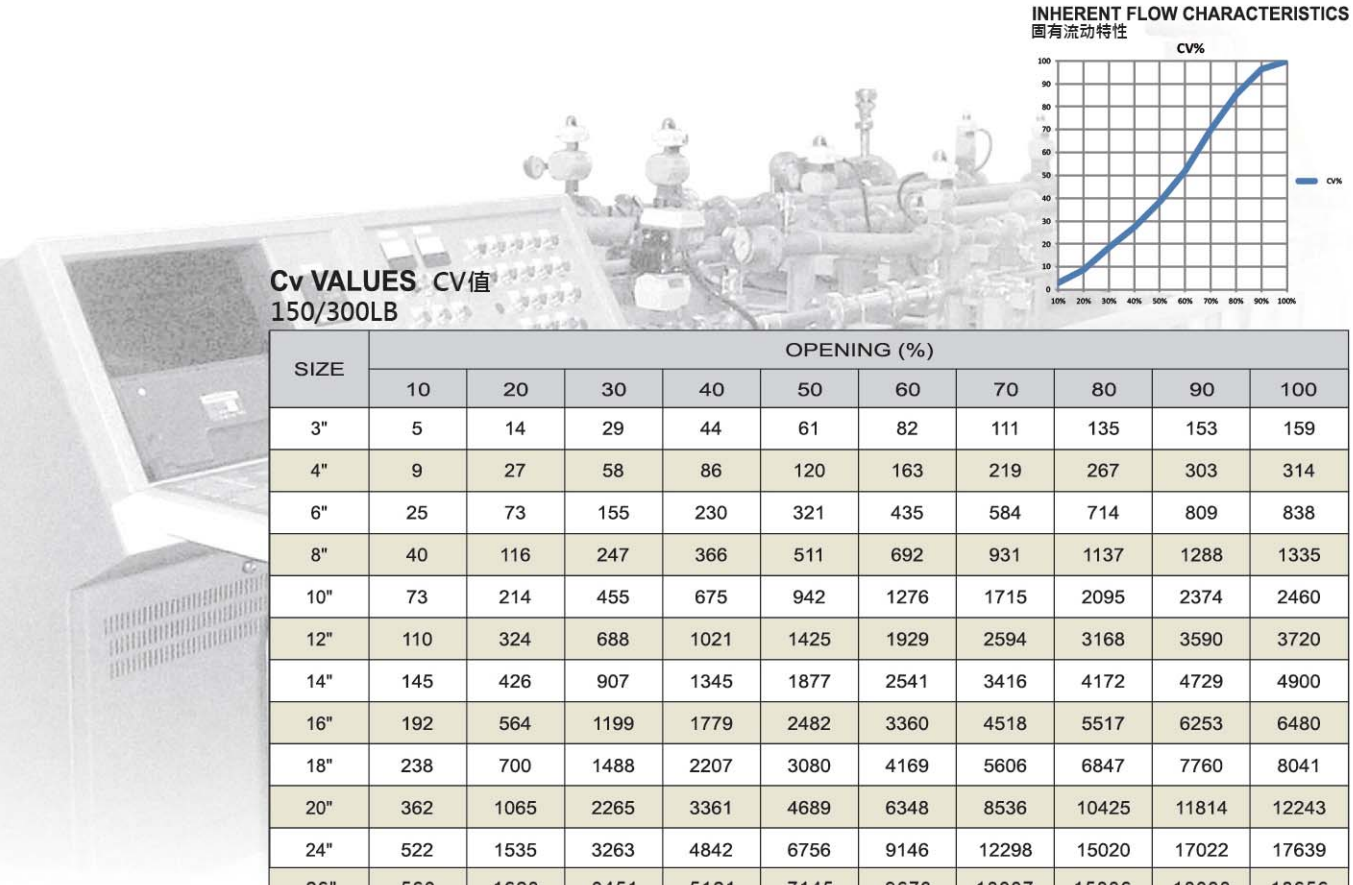
SIZE		W	K	M	Q	E	O	N	L		T	H	H1	H2	H3	□R	ØG	BxlxJ	ISO 5211	Wt (Kg)	
				Short					Short	Long										Short	Long
80	3"	152.4	190.5	-	-	-	19	4	114	203	24	212	30	30	111	11	15	5X19X25	F10	13	15
100	4"	190.5	228.6	-	-	-	19	8	127	229	24	242	36	36	131	14	18	6X23X30	F10	21	24
150	6"	241.3	279.4	-	-	-	22	8	140	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	220	-	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	□R	ØG	BxlxJ	ISO 5211	Wt (Kg)	
				Short					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	762	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	838	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	914	60.3	586	140	-	389	-	65	20X74X130	F30	428.9	635.9
500	20"	685.8	774.7	1-1/4"-8 UN	4	32	35	24	229	991	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	□R	ØG	BxlxJ	ISO 5211	Wt (Kg)	
				Short					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"-8UN	4	51	54	28	430	-	118.2	945	230	-	615	-	140	36X157X220	F40	1950	-
750	30"	1022	1130	2"-8UN	4	51	54	28	430	-	121.3	1000	230	-	660	-	150	40x168x220	F48	2380	-



INHERENT FLOW CHARACTERISTICS
固有流动特性

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)
温度和压力表

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 如何订购

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
D1	DIN PN10
D2	DIN PN16
D3	DIN PN25
D4	DIN PN40

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. DISC MAT'L	
S	WCB (1.0619)
A	CF8 (1.4308)
C	CF8M (1.4408)
D	CF3 (1.4306)
E	CF3M (1.4404)
F	CG8M (1.4412)

D. STEM MAT'L	
22	630 (1.4542)
10	S31803 (1.4462)
25	XM-19
26	S66286 (1.4980)
29	INCONEL®

E. SEAT MAT'L	
A	CF8 (1.4308)
C	CF8M (1.4408)
D	CF3 (1.4306)
E	CF3M (1.4404)
F	CG8M (1.4412)

F. SIZE	
80	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
CY	CRYOGENIC DESIGN -40~-320°F (-40~-196°C)

H. END CONNECTION	
W	WAFER
L	LUG
SRF	RF FLANGED (SHORT PATTERN)
SRT	RTJ FLANGED (SHORT PATTERN)
LRF	RF FLANGED (LONG PATTERN)
LRT	RTJ FLANGED (LONG PATTERN)

I. TEMPERATURE	
SM	-20~572°F (-29~300°C) SEAT W/STELLITE ® SEAL RING W/HCR
SH1	-20~932°F (-29~500°C) SEAT W/STELLITE ® SEAL RING W/STELLITE ®

HOW TO ORDER

※ Alternative materials are available on request.
* 阀内件均做相应的硬化处理, 以上内件为基材。

JDV GROUP

■ **HEADQUARTERS**
NO. 6-1, QINGNIAN RD., YANGMEI DIST.,TAOYUAN CITY 326, TAIWAN
TEL +886-3-4965066 FAX +886-3-4963526 E-MAIL: sales@jdv.com.tw

JDV CONTROL VALVES TGT ZUERCHER TECHNIK

6D-0539 DNV·GL ISO 9001:2015 CE 0035