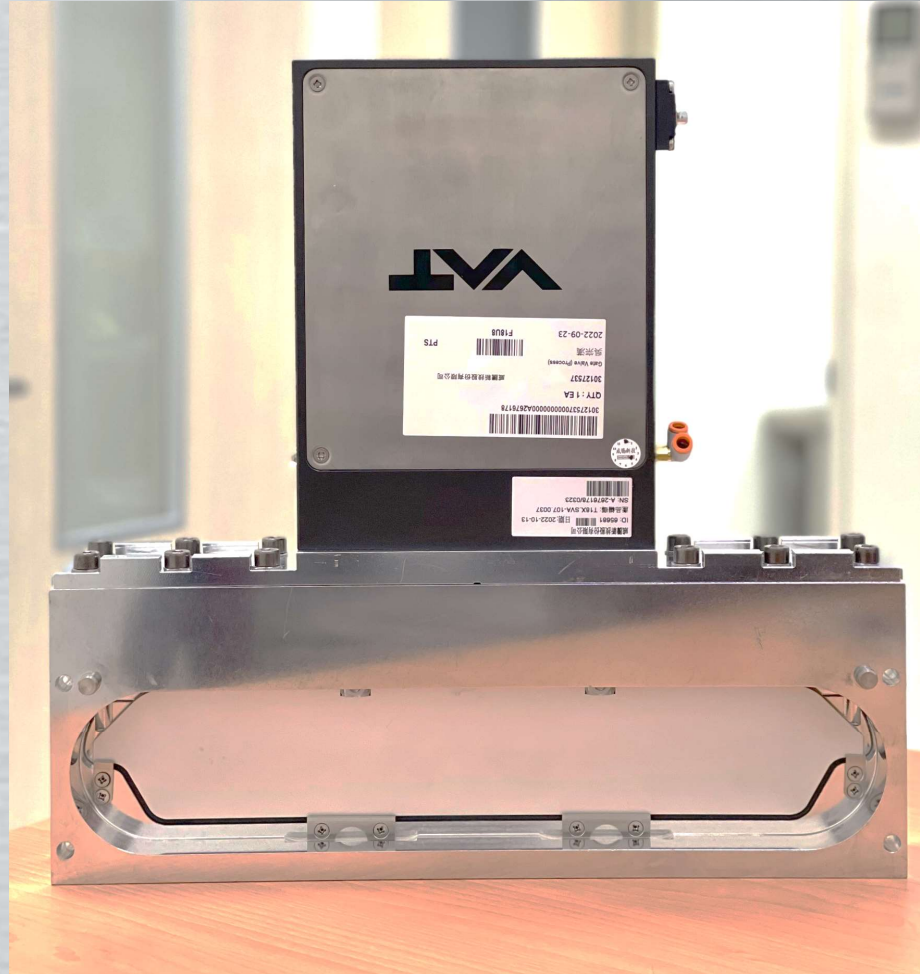




# VAT Slit Valve Overhaul Procedure

## VAT:02112-BA24-BKP1

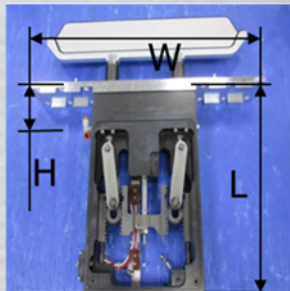




# VAT Slit Valve Overhaul Procedure

## VAT:02112-BA24-BKP1

### ➤ Basic Information



Factory P/N : 02112-BA24-BKP1 .

Function : Slit valve .

Port Size : L245mm\*W420mm\*H60 .

Port 方向 : 180 .

Driver : CDA .

Driver界面 : N/A (sensor方頭) .

Key parts : O-ring .

Bellow type : Welded bellow .

Seal type : 燒結(94027-R1/734/039) & O-ring .

Application : .



# VAT Slit Valve Overhaul Procedure

## VAT:02112-BA24-BKP1

➤ Overhaul process flow





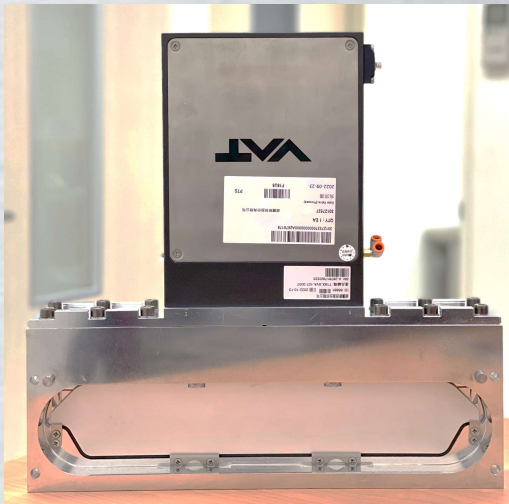


# VAT Slit Valve Overhaul Procedure

## VAT:02112-BA24-BKP1

### 1. Laser mark & valve disassembly

Valve disassembly





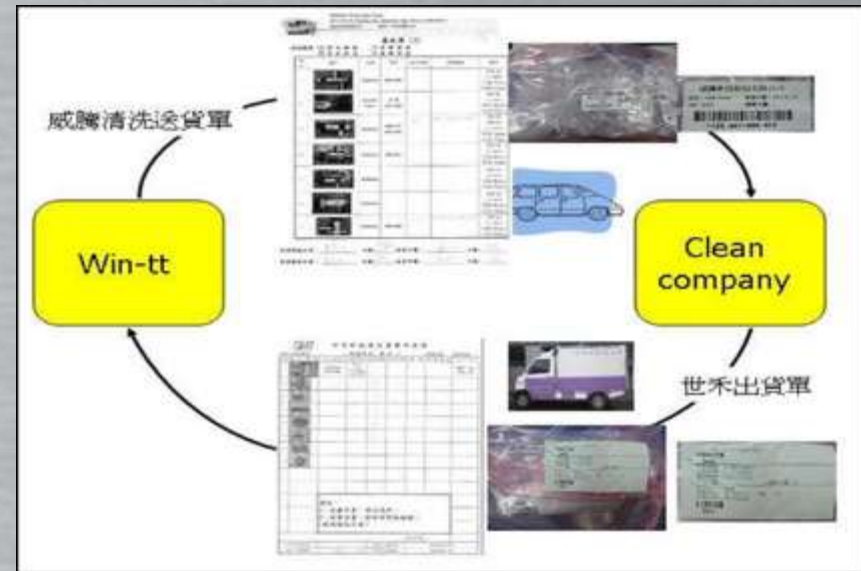
# VAT Slit Valve Overhaul Procedure

## VAT:02112-BA24-BKP1

### 2. Parts clean by outsourcing



送洗物件



送洗流程



# VAT Slit Valve Overhaul Procedure

## VAT:02112-BA24-BKP1

### 3. Parts Replacement



威騰編號	品名	規格	備註/描述	數量
E00000165	Viton O-ring	AS-135	VITON	1
E00000177	Viton O-ring	AS-204	VITON	1
E00000435	Welded Bellow NEW	OD26.035*FL149.2	材質:AM350/WBL-438	2
E00000553	Viton O-ring	AS-024	VITON	4
E00000554	VITON O-RING	AS-203	VITON	1
E00000556	VITON O-RING	AS-275	VITON	1
E00001859	Viton O-ring	AS-126	VITON	1



Bellows



O-ring



Slit valve door



CDA port



Counter Switch

1. All of O-ring & Packing (Replace)
2. Bellows assembly ( Replace)
3. Slit valve door ( Customer supply if necessary )
4. Screw & CDA port ( Condition replace)



# VAT Slit Valve Overhaul Procedure

## VAT:02112-BA24-BKP1

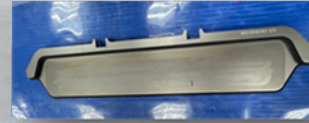
### 4. Valve Assembly



Bellows



O-ring



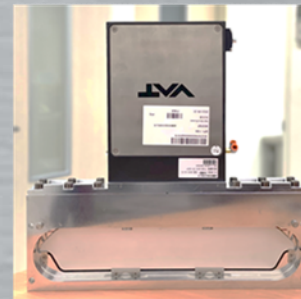
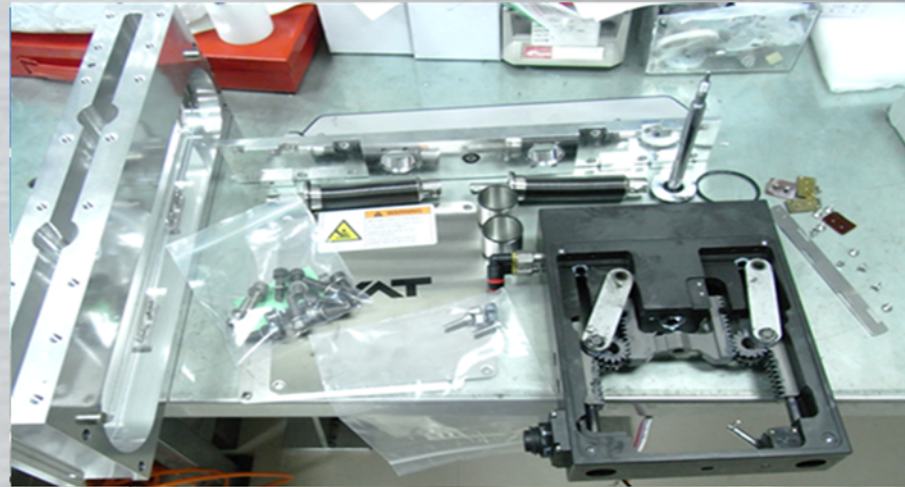
Slit valve door



CDA port



Counter Switch



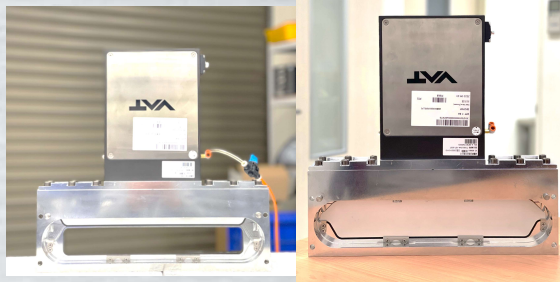




# VAT Slit Valve Overhaul Procedure VAT:02112-BA24-BKP1

## 5. Valve final test:

Valve Open/Close Cycle & Sensor Check



**Open/Close cycle 200 times**

Vacuum test by He detector



**Vacuum test by He detector ( under 5E-8 mbar/sec)**





# VAT Slit Valve Overhaul Procedure

## VAT:02112-BA24-BKP1

### 6. E-Check list

數據								
項次	(次)分類	單位	Data Name	分析資料	上限	下限	內容	Remark
2	Condition check	mT/min	P-LEAK	Y	1		0 PVD_Leak up rate	coa leak up rate
3	Condition check	mm	D-WASH	Y	1.41	1.37	PVD Washer	coa pvd washer
4	Condition check	1.0e <sup>-10</sup> Torr-L/S	R-LEAK	Y	500	0.01	R- Side Bellows: Leak Check (Dif_bellow leakage test)	coa DIF bellows leakage test (5E-8~1E-12 Torr-L/sec)
5	Condition check	1.0e <sup>-10</sup> Torr-L/S	L-LEAK	Y	500	0.01	L- Side Bellows: Leak Check (coa PVD bellow leakage test)	coa PVD bellow leakage test (5E-8~1E-12 Torr-L/sec)
8	Vacuum test	1.0e <sup>-10</sup> Torr-L/S	F-CDAP	Y	500	0.01	外部洩漏測試: Vacuum leakage check < 5E-8 torr-L/sec (PVD valve assembly leakage test)	coa PVD valve assembly leakage test ( 5E-8~1E-12 torr-L/sec)
9	Condition check	Ω	R-DCLD	Y	2		0 DIF Close (upper side) sensor	coa close upper side sensor
10	Condition check	Ω	R-DOPO	Y	2		0 DIF Open (lower side) sensor	coa pvd open lower side sensor
12	Condition check	ohm	R-PCLO	Y	2		0 PVD Close (upper side) sensor	coa pvd close upper side sensor
13	Condition check	ohm	R-POPO	Y	2		0 PVD Open (lower side) sensor	coa pvd open lower side sensor
15	Pressure test	PSI	P-CYLI	Y	65	55	Cylinder pressurized test	coa pvd cylinder pressurized test
16	Vacuum test	1.0e <sup>-10</sup> Torr-L/S	P-VACM	Y	500	1	Vacuum leakage check < 5E-8 torr-L/sec (DIF slit assembly leakage test)	COA DIF slit assembly leakage test ( 5E-8~1E-10 Torr-L/sec)

Check		
項次	分類	內容
1	Parts replacement	封頭墊片需要換*2
6	Function test	Cylinder leakage test (cylinder洩漏測試) CDA Pressure 80 PSI
7	Function test	Cylinder Pressurized test 60 PSI
11	Cycle test	Valve close/open function cycles test 200 times is normal
14	others	Overview Check normal

PartsApply						
Basic Parts Replacement						
PM KIT	料號	品名	規格	備註/描述	數量	
E00001146	E00000435	Welded Bellow NEW	OD26.035*FL149.2	材質:AM350/WBL-438	2	
E00001177	E00000553	Viton O-ring	AS-024	VITON	4	
E00001177	E00000556	VITON O-RING	AS-275	VITON	1	
E00001177	E00000555	VITON O-RING	AS-134	VITON	1	
E00001177	E00000554	VITON O-RING	AS-203	VITON	1	
E00001177	E00000177	Viton O-ring	AS-204	VITON	1	
Optional parts replacement						
料號	品名	規格	備註/描述	數量		
E00000165	Viton O-ring	AS-135	VITON			
E00000177	Viton O-ring	AS-204	VITON			
E00000435	Welded Bellow NEW	OD26.035*FL149.2	材質:AM350/WBL-438			
E00000478	Welded Bellow NEW	26.035*120.8*121(Total)	材質:AM350/WBL-437			
E00000553	Viton O-ring	AS-024	VITON			
E00000554	VITON O-RING	AS-203	VITON			
E00000555	VITON O-RING	AS-134	VITON			
E00000556	VITON O-RING	AS-275	VITON			
E00000876	CDA接頭	KO2L01-32N(KQL1U-49)九型/90度彎接頭	SMC			
E00001859	Viton O-ring	AS-126	VITON			