

## **INSPECTION REPORT**

Client:	******
Client order No:	PO0032
Factory:	******
Inspector:	Jack Lau
Report date:	10 <sup>th</sup> -Aug&20 <sup>th</sup> -Aug,2016



### 1. Product Description and amount of inspection

Item	Product Description		Quantity (SETS)								
iteiii	Froduct Description	Order	Series no.	Inspected							
1	GATE VALVE 3"1500LB	9	VX-52801,VX-52803,VX-52804,VX-52808,VX-52	VX52803							
•	GATE VALVE 3 1300EB	)	809,VX-52814,VX-52815,VX-52820,VX-52821	V/102000							
2	GATE VALVE 4"150LB	9	VX-52901,VX-52903,VX-52904,VX-52908,VX-52	VX52904							
2	GATE VALVE 4 150LB	9	909,VX-52914,VX-52915,VX-52920,VX-52921	V A 5 2 9 0 4							
3	GLOBE VALVE 3"150LB	2	VX-52806	VX52806							
4	GLOBE VALVE 4"150LB	2	VX-52906	VX52906							
5	Y-STRAINER 3"150LB	2	VX-52810,VX-52816	VX52810							
6	Y-STRAINER 4"150LB	2	VX-52910,VX-52916	VX52916							
7	DUO-PLATE CHECK VALVE	3	VX-52802,VX-52812,VX-52818	\/Y52912							
,	3"150LB	3	VA-32602, VA-32612, VA-32616	VX52812							
8	DUO-PLATE CHECK VALVE	3	\/Y 52002 \/Y 52012\/Y 52018	VX52912							
0	4"150LB	3	VX-52902,VX-52912,VX-52918	V A 52812							
	Total	32									

Inspection place & Date or Period:
Wuxing Industrial Area Oubei Town, Wenzhou City, Zhejiang Province, China.
10th-Aug&20th-Aug,2016
Stage of inspection :
□ Before manufacturing
■ During manufacturing
□ Final
□ Packing
Kind of inspection:
☐ Pre-inspection meeting
■ Witnessing tests
☐ Material inspection
□ Document review
□ Packing
Results of inspection :
□ Satisfactory
■ Unsatisfactory

### Main Conclusions & Remarks:

1,PMI of globe valve stem was out of standard, details see report below.

### 2. Inspection activities

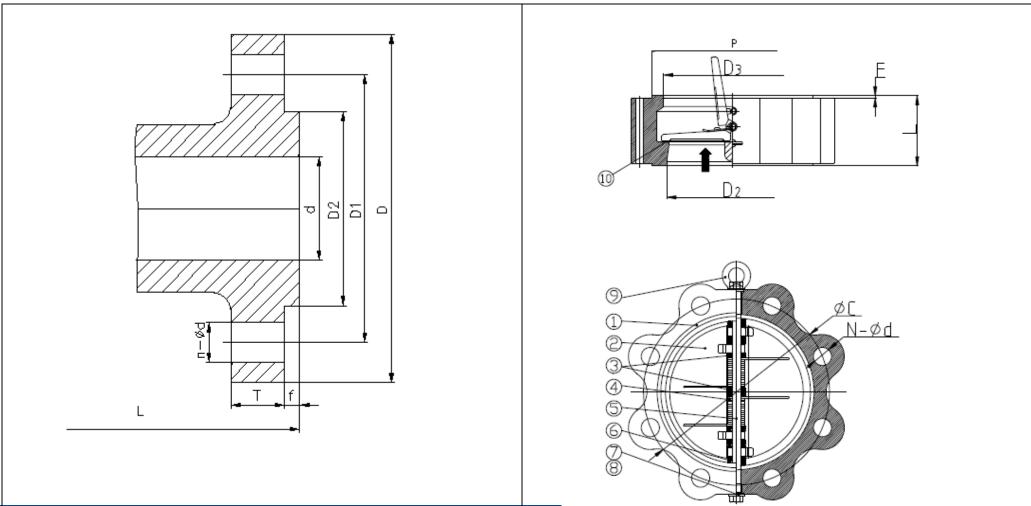
Product basic information on products is conducted by inspectors examine test and performance test, structure test, size, details are as follows:

- 1) visual inspection to check the basic information of the products, to record the scene visual information;
- 2) Inspection on the appearance of the product structure.
- 3) According to the requirements of the guests for the product structure length and flange size measurement, Record the measured data;
  - 4) PMI
- 5) According to the requirements of the guests on the performance of the product testing, testing standards, in accordance with API 598.

In size and performance test before, Inspector has carried on the inspection to measure caliper and pressure gauge, Confirm that they are qualified and effective.



## **CONNECTION DIMENSION INSPECTION**





Part A:	PO.#	PO.#: PO0032 Item No:GATE VALVE 3"150LB																	
Series No.		Detailed measurement of body																	
	L		[	)	D	)1	D	D2		Т		f	n-	⊄d	d		N/A		result:
	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	
VX52803	203.0	204.0	190.0	189.2	152.4	152.4	127.0	127.2	19.0	20.3	2.0	2.0	4-19.0	4-19.0	N/A	N/A	N/A	N/A	PASS
Part A:	PO.#	PO.#: PO0032 Item No:GATE VALVE 4"150LB																	
Series	Detailed measurement of body																		
No.		L		)		)1	D			Γ	,	f		⊄d		d	N/		result:
	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	
VX52904	229	230.9	230.0	229.5	190.5	189.8	157.0	157.0	24.3	25.0	2.0	2.0	8-19.0	8-19.0	N/A	N/A	N/A	N/A	PASS
Part A:	PO.#: PO0032 Item No:GLOBE VALVE 3"150LB																		
Carias	Detailed measurement of body																		
Series No.		L	[	)	D	)1	D	D2 T		Γ		f	n-⊄d		d		N/A		result:
L	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	
VX52806	241.0	242.0	190.0	190.2	152.4	152.2	127.0	127.0	19.0	19.5	2.0	2.0	4-19.0	4-19.0	N/A	N/A	N/A	N/A	PASS
Part A:	PO.#	: PO0032	2						Item	No:GLC	BE VAL	VE 4"15	OLB						
Camira	Detailed measurement of body																		
Series No.		L	[	D	D	)1	D	2	Т			f	n-	⊄ d	(	d	N/	Ά	result:
110.	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	
VX52906	292.0	292.7	230.0	229.4	190.5	189.9	157.0	157.0	24.3	25.3	2.0	2.0	8-19.0	8-19.0	N/A	N/A	N/A	N/A	PASS
Part A:	PO.#	: PO0032	2						Item	No:Y-S	rainer 3	"150LB							
Corios							Detailed measuremen				t of body								
Series No.		L	[	)	D1		D2		-	Γ		f		⊄d	(	d		/A	result:
-	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	
VX52810	241.0	242.6	190.0	190.1	152.4	152.3	127.0	127.0	19.0	19.5	2.0	2.0	4-19.0	4-19.0	N/A	N/A	N/A	N/A	PASS



## Fair Valve Inspection

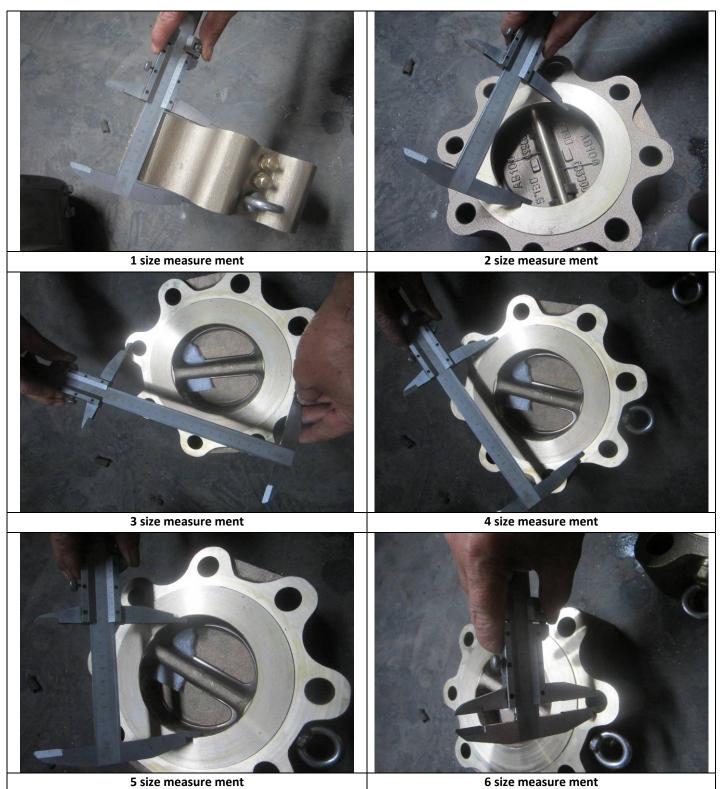
Part A:	PO.#:	PO.#: PO0032 Item No:Y-strainer 4"150LB																	
Carria	Detailed measurement of body																		
Series No.	ı	L		)	D	01	D	)2		Т		f	n-	⊄ d	C	l	N	/A	result:
NO.	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	
VX52916	292.0	293.8	230.0	229.0	190.5	189.8	157.0	157.0	24.0	25.7	1.6	2.0	8-19.0	8-19.0	N/A	N/A	N/A	N/A	PASS
Part A:	PO.#: PO0032 Item No: DUO-PLATE CHECK VALVE 3"150LB														1				
	Detailed measurement of body																		
Series No.	ı	L	ф	C	ı	)	D	)3		)2		E	n-	⊄ d	N/A N/A		/A	result:	
NO.	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	
VX52812	73.0	73.4	152.5	152.8	127.0	126.5	88.0	89.1	80.0	81.1	N/A	2.0	4-19.0	4-19.0	N/A	N/A	N/A	N/A	PASS
Part A:	PO.#:	PO0032	2		l	l	l	l	Item	No: DU	O-PLATI	СНЕСК	VALVE 4	"150LB	l			l	
								Det	ailed mea	surement	of body								
Series No.	I	L	ф	C	ı	0	D	)3	C	)2		E	n-	⊄d	N/	<b>′</b> A	N	/A	result:
NO.	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	Spec.	AS	
VX51912	73.0	72.9	190.5	190.2	157.0	157.3	108.0	108.6	102.0	103.1	N/A	2.0	8-19.0	8-19.0	N/A	N/A	N/A	N/A	PASS



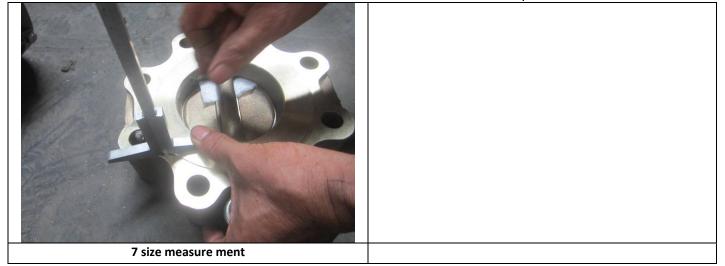
# Fair Valve Inspection Report No.:F-2016

Report No.:F-201608082

PHOTO ATTACHMENT









## Fair Valve Inspection

Report No.:F-201608082

### **PMI INSPECTION**

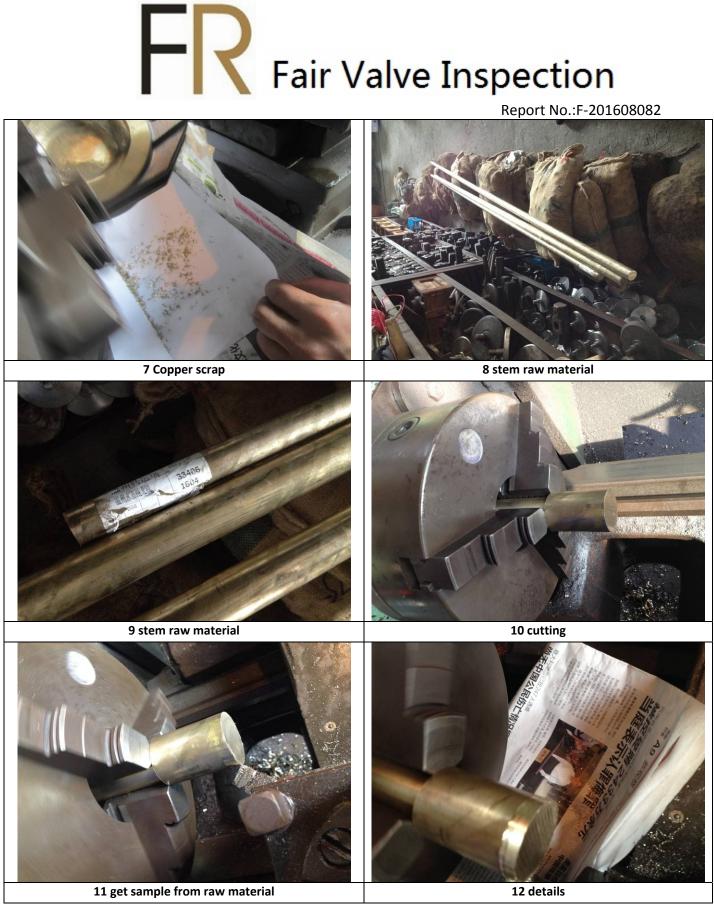
	Data of Spectrum Analysis														
Material: C	Material: C95800		Si%	Mn%	Al%	Cr%	Mo%	Ni%	Cu%	N%	Nb%	Fe%	Remark		
Heat No.	Part name	/	<0.1	0.8~1.5	8.5~9.5	/	/	4.0~5.0	>79	/	/	3.5~4.5	ASTM B148		
2828	Gate/globe/strainer Body/bonnet/disc	/	<0.1	0.94	8.89	/	/	4.75	81.44	/	/	3.87	PASS		
2838	Check valve body	/	<0.1	1.17	9.02	/	/	4.27	81.34	/	/	3.82	PASS		
Q142	Gate/globe stem	/	<0.1	0.92	<mark>7.99</mark>	/	/	4.51	82.34	/	/	3.85	PASS		
5730	Check valve disc	/	<0.1	0.98	9.01	/	/	4.21	80.99	/	/	3.92	PASS		
1780	Gate body,disc,stem	/	<0.1	1.49	9.20	/	/	4.40	80.20	/	/	3.90	PASS		
Note:	The datasheet from thire	d party rep	ort.												
Comment:	NIL.														



## **PMI TEST**

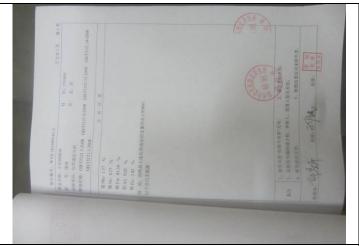








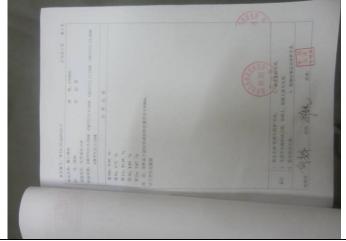
## Fair Valve Inspection





13 test report from Third party

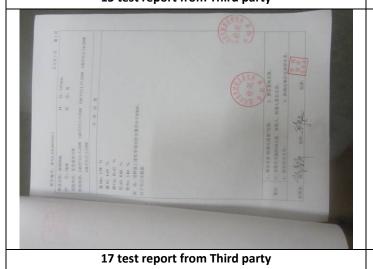
14 test report from Third party

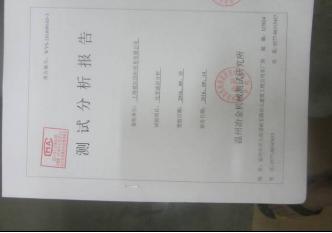




15 test report from Third party

16 test report from Third party





18 test report from Third party



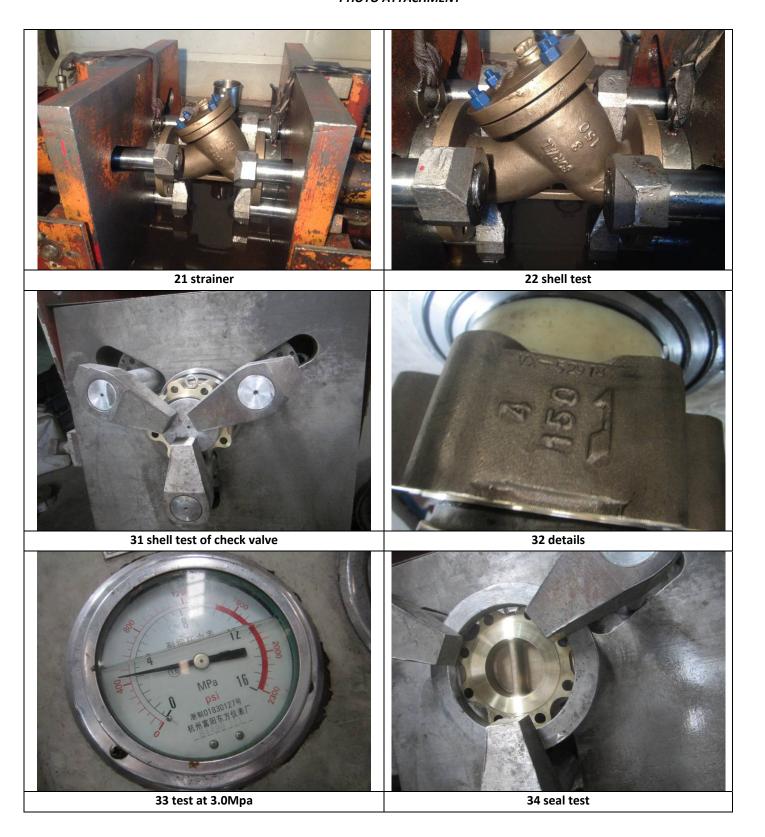
### STRENGTH AND SEAL INSPECTION REPORT

Details of Shell Strength/Seat Seal/Pneumatic Pressure/Back Seal Inspection as below:

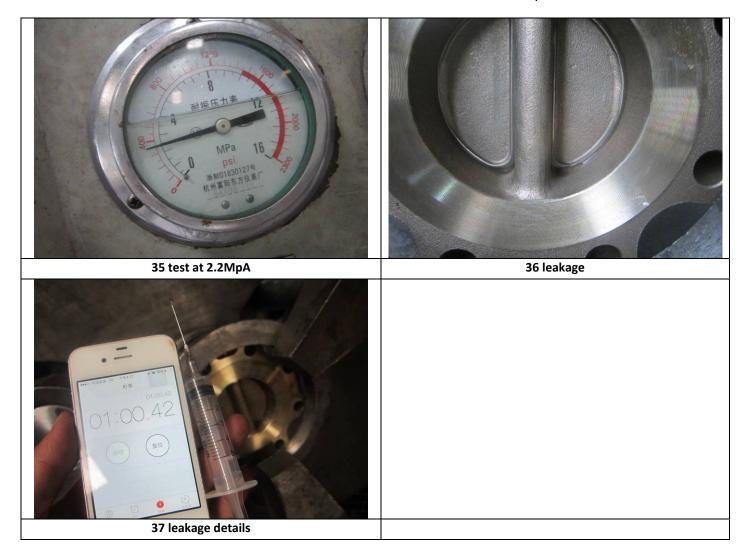
Part A	PO#: PO	0032					1				
No.	Series No.	Item No.	Shell Str	ength	Seat S	Seal	Pneumatic	Pressure	Back S	Overall	
	series no.	item No.	Spec.(Mpa)	Result	Spec.(Mpa)	Result	Spec.(Mpa)	Result	Spec.(Mpa)	Result	Result
1	VX52803	GATE VALVE 3"150LB	/	/	/	/	/	/	/	/	/
2	VX52904	GATE VALVE 4"150LB	/	/	/	/	/	/	/	/	/
3	VX52806	GLOBE VALVE 3"150LB	/	/	/	/	/	/	/	/	/
4	VX52906	GLOBE VALVE 4"150LB	/	/	/	/	/	/	/	/	/
5	VX52810	Y-STRINER 3"150LB	3.0	٧	N/A	N/A	N/A	N/A	N/A	N/A	PASS
6	VX52916	Y-STRINER 4"150LB	3.0	٧	N/A	N/A	N/A	N/A	N/A	N/A	PASS
7	VX52812	DOU PLATE CHECK VALVE 3"150LB	3.0	٧	2.2	٧	N/A	N/A	N/A	N/A	PASS
8	VX52902	DOU PLATE CHECK VALVE 4"150LB	3.0	٧	2.2	٧	N/A	N/A	N/A	N/A	PASS
Remark		0.6ml/min was found									
		1.2ml/min was found	<b>U</b> 1		•	/e 4"150lb,it's	acceptable accord	ding to API 59	8(Max acceptable	e leakage 9r	nl/min)
Note:		te valve do not do pre "means "fail", mark "v		to stem PMI	not qualified.						
NOLE.	•	oiry date of all pressure		ntahla							



PHOTO ATTACHMENT









## **PAINTING&FINAL INSPECTION**

