


TÜV Rheinland (Shanghai) Co., Ltd	<b>VENDOR INSPECTION REPORT</b>	 <b>TÜVRheinland®</b> Precisely Right.
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<b>Project Name:</b> N/A		<b>Excuting country:</b> P. R. China	
<b>Client:</b> SP TWS Ltd.		<b>PO No.:</b> TWS-SL0122 dated 27.01.2022	
<b>Contact:</b> N/A		<b>Ref/Order No.:</b> N/A	
<b>Vender/ Manufacturer:</b> Seallon (Shanghai) Flow Technology Co., Ltd.		<b>Vender Ref.:</b> N/A	
<b>Contacts:</b> Mr. Chris Yang Phone: +86 15538823090 Email: chris@seallon.ru		<b>Place of Inspection:</b> No. 78, Xinchun Road, Zhujing Town, Jinshan District, Shanghai, China	
<b>Attendees:</b> Mrs. Xie Seallon QM Mr. Chris Yang Seallon CD Mr. Kevin Wang TUV R Inspector		<b>Date of Inspection:</b> May 11~13, 2022	

<b>Equipment/goods inspected:</b> Z961Y-63I DN400 Welded Wedged Gate Valve 4 sets, Z961Y-63I DN500 Welded Wedged Gate Valve 2 sets, Z961H-16C DN700 Welded Wedged Gate Valve 2 sets, Z961H-16C DN900 Welded Wedged Gate Valve 2 sets
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<b>Inspection according to:</b>	
ITP / QCP No.: N/A	Specification: N/A
Codes / standards: GB/T 26480-2020	Drawing No.: SG961S-63C & SG961S-16C

<b>Scope of work:</b> Following inspections were performed according to contract and above referred documents during the stage of:		
<input type="checkbox"/> Pre-Inspection Meeting	<input type="checkbox"/> In-process inspection	<input checked="" type="checkbox"/> Final inspection
<input type="checkbox"/> Quantity inspection	<input checked="" type="checkbox"/> Test witness	<input type="checkbox"/> Documents review
<input type="checkbox"/> Visual inspection	<input type="checkbox"/> Coating inspection	<input type="checkbox"/> Process monitoring
<input type="checkbox"/> Dimension inspection	<input type="checkbox"/> Marking inspection	<input type="checkbox"/> Others
<input type="checkbox"/> full inspection	<input checked="" type="checkbox"/> partial inspection	<input type="checkbox"/> random inspection

<b>Inspection Result:</b>			
<input checked="" type="checkbox"/> satisfactory	<input type="checkbox"/> partial non-conforming	<input type="checkbox"/> rejected	<input type="checkbox"/> aborted
<b>Documentation:</b>			
<input type="checkbox"/> complete and in order	<input type="checkbox"/> not complete (please see report details)		
<b>Deviations found:</b>			
<input checked="" type="checkbox"/> none	<input type="checkbox"/> to contract	<input type="checkbox"/> to drawings	<input type="checkbox"/> to ITP / QCP / PO
(Please see separate non-conformance report)			
<b>Conclusion:</b> Acceptable			

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## INSPECTION DETAILS

### Material / Products / Components inspected:

Z961Y-63I DN400 Welded Wedged Gate Valve 4 sets  
Z961Y-63I DN500 Welded Wedged Gate Valve 2 sets  
Z961H-16C DN700 Welded Wedged Gate Valve 2 sets  
Z961H-16C DN900 Welded Wedged Gate Valve 2 sets

### Detailed Scope of Inspection:

Witness Pressure Test

### Standards and Documentation:

1. PO: TWS-SL0122 dated 27.01.2022
2. Drawing SG961S-63C & SG961S-16C
3. GB/T 26480-2020

### Witnessed Tests:

Pressure Test

### Used Test Equipment:

Equipment name	Type /Model	Identification No./ Calibration No.	Valid range /Accuracy	Calibration valid to
Pressure gauge	Pointer type	HY46033	0~25MPa/Gr. 1.6	05/08/2023
Pressure gauge	Pointer type	15279	0~4MPa/Gr. 1.6	05/08/2023
Pressure gauge	Pointer type	HY84097	0~40MPa/Gr. 1.6	05/08/2023
Pressure gauge	Pointer type	HY94151	0~4MPa/Gr. 1.6	05/08/2023
Pressure gauge	Pointer type	HY94149	0~4MPa/Gr. 1.6	05/08/2023

### Inspection Activities:


#### Witness Pressure Test

Before pressure test, all of valves had been finished painting.

The fluid was corrosion inhibitor water which used during shell test and seat test. Test water temperature was 20°C during pressure test.

After pressure testing, the residual fluid in the valve cavity was cleaned off by the compressed air.

The test details please refer to below tables:

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- Z961Y-63I DN400 Welded Wedged Gate Valve 4 sets

Item	Shell Test		Backseat and Seat Test		Air Leak Test	
	Pressure (MPa)	Duration (s)	Pressure (MPa)	Duration (s)	Pressure (MPa)	Duration (s)
Req.	Min 9.45	Min 300	Min 6.93	Min 120	0.4~0.7	Min 120
Act.	10	300	7	120	0.6	120
Result	No leakage, no visible deformation and abnormal noise were detected					

- Z961Y-63I DN500 Welded Wedged Gate Valve 2 sets

Item	Shell Test		Backseat and Seat Test		Air Leak Test	
	Pressure (MPa)	Duration (s)	Pressure (MPa)	Duration (s)	Pressure (MPa)	Duration (s)
Req.	Min 9.45	Min 300	Min 6.93	Min 120	0.4~0.7	Min 120
Act.	10	300	7	120	0.6	120
Result	No leakage, no visible deformation and abnormal noise were detected					


- Z961H-16C DN700 Welded Wedged Gate Valve 2 sets

Item	Shell Test		Backseat and Seat Test		Air Leak Test	
	Pressure (MPa)	Duration (s)	Pressure (MPa)	Duration (s)	Pressure (MPa)	Duration (s)
Req.	Min 2.4	Min 300	Min 1.76	Min 120	0.4~0.7	Min 120
Act.	2.4	300	1.8	120	0.6	120
Result	No leakage, no visible deformation and abnormal noise were detected					

- Z961H-16C DN900 Welded Wedged Gate Valve 2 sets

Item	Shell Test		Backseat and Seat Test		Air Leak Test	
	Pressure (MPa)	Duration (s)	Pressure (MPa)	Duration (s)	Pressure (MPa)	Duration (s)
Req.	Min 2.4	Min 300	Min 1.76	Min 120	0.4~0.7	Min 120
Act.	2.4	300	1.8	120	0.6	120
Result	No leakage, no visible deformation and abnormal noise were detected					



**Result: Acceptable (Note: Unit of Class Number Typecasting is Bar on the valve body)**

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**Non Conformities:**

N/A



Manufacturer informed about non conformities


Issued by:	<u>Kevin Wang</u>		Reviewed by:	<u>Vince Tian</u>	
	Name	Signature		Name	Signature

**Disclaimer:**

This report reflects our findings during inspection in time and place according to the agreed scope of our performance or deliverables and does not release buyer and/or seller from their contractual responsibilities. This report does not construe any guarantee or warranty that the purchase contract between buyer and seller is fulfilled correctly and all performances have been delivered without any defect. Furthermore the report and its results does not affect any potential buyer's right to claim for compensation or remedy towards the seller/supplier of apparent or hidden defects not detected during our inspection or occurred afterwards.

**PICTURES:**

	
1. Shell pressure test for Z961Y-63I DN400 Welded Wedged Gate Valve-1	2. Shell pressure test for Z961Y-63I DN400 Welded Wedged Gate Valve-2

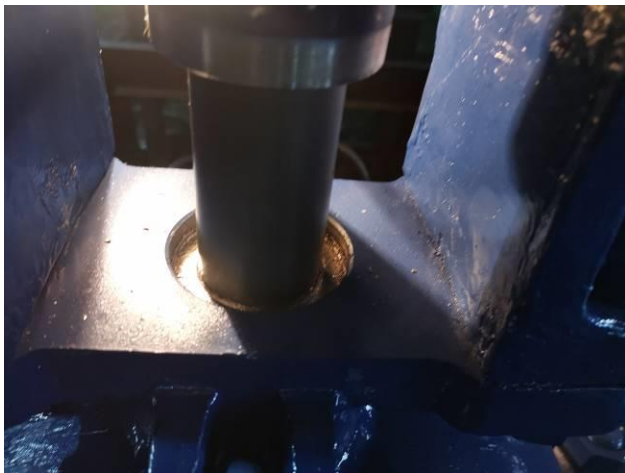
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3. Shell test pressure indicated for Z961Y-63I DN400 Welded Wedged Gate Valve




4. Backseat and seat high test pressure indicated for Z961Y-63I DN400 Welded Wedged Gate Valve



5. Backseat without leakage during high pressure test for Z961Y-63I DN400 Welded Wedged Gate Valve



6. Seat without leakage during high pressure test for Z961Y-63I DN400 Welded Wedged Gate Valve-1

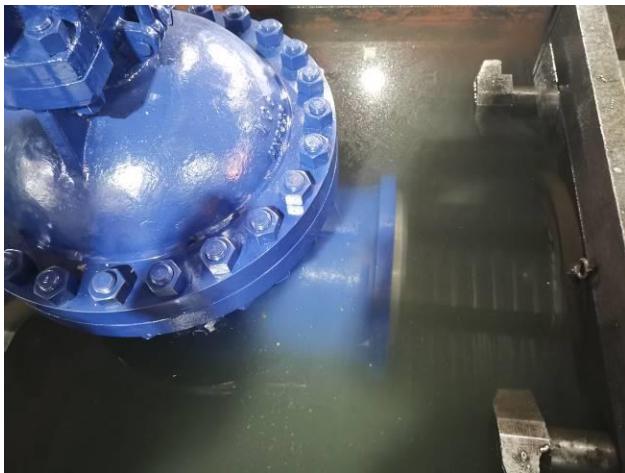
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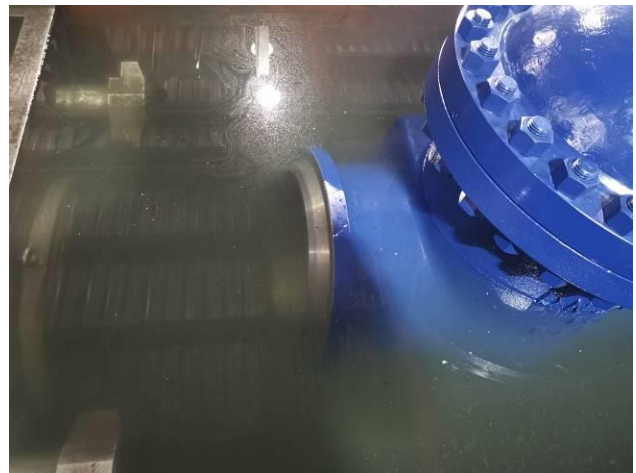
7. Seat without leakage during high pressure test for Z961Y-63I DN400 Welded Wedged Gate Valve-2




8. Seat test low pressure indicated for Z961Y-63I DN400 Welded Wedged Gate Valve



9. Seat without leakage during low pressure test for Z961Y-63I DN400 Welded Wedged Gate Valve-1



10. Seat without leakage during low pressure test for Z961Y-63I DN400 Welded Wedged Gate Valve-2

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11. Shell pressure test for Z961Y-63I DN500  
Welded Wedged Gate Valve-1




12. Shell pressure test for Z961Y-63I DN500  
Welded Wedged Gate Valve-2



13. Shell test pressure indicated for Z961Y-63I  
DN500 Welded Wedged Gate Valve



14. Backseat and seat high test pressure indicated  
for Z961Y-63I DN500 Welded Wedged Gate  
Valve

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15. Backseat without leakage during high pressure test for Z961Y-63I DN500 Welded Wedged Gate Valve



16. Seat without leakage during high pressure test for Z961Y-63I DN500 Welded Wedged Gate Valve-1




17. Seat without leakage during high pressure test for Z961Y-63I DN500 Welded Wedged Gate Valve-2



18. Seat test low pressure indicated for Z961Y-63I DN500 Welded Wedged Gate Valve



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19. Seat without leakage during low pressure test for Z961Y-63I DN500 Welded Wedged Gate Valve-1




20. Seat without leakage during low pressure test for Z961Y-63I DN500 Welded Wedged Gate Valve-2



21. Shell pressure test for Z961H-16C DN700 Welded Wedged Gate Valve-1



22. Shell pressure test for Z961H-16C DN700 Welded Wedged Gate Valve-2

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23. Shell test pressure indicated for Z961H-16C DN700 Welded Wedged Gate Valve




24. Backseat and seat high test pressure indicated for Z961H-16C DN700 Welded Wedged Gate Valve



25. Backseat without leakage during high pressure test for Z961H-16C DN700 Welded Wedged Gate Valve



26. Seat without leakage during high pressure test for Z961H-16C DN700 Welded Wedged Gate Valve-1

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27. Seat without leakage during high pressure test for Z961H-16C DN700 Welded Wedged Gate Valve-2




28. Seat test low pressure indicated for Z961H-16C DN700 Welded Wedged Gate Valve



29. Seat without leakage during low pressure test for Z961H-16C DN700 Welded Wedged Gate Valve-1



30. Seat without leakage during low pressure test for Z961H-16C DN700 Welded Wedged Gate Valve-2

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31. Shell pressure test for Z961H-16C DN900  
Welded Wedged Gate Valve-1




32. Shell pressure test for Z961H-16C DN900  
Welded Wedged Gate Valve-2



33. Shell test pressure indicated for Z961H-16C  
DN900 Welded Wedged Gate Valve



34. Backseat and seat high test pressure indicated  
for Z961H-16C DN900 Welded Wedged Gate  
Valve

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35. Backseat without leakage during high pressure test for Z961H-16C DN900 Welded Wedged Gate Valve




36. Seat without leakage during high pressure test for Z961H-16C DN900 Welded Wedged Gate Valve-1





37. Seat without leakage during high pressure test for Z961H-16C DN900 Welded Wedged Gate Valve-2



38. Seat test low pressure indicated for Z961H-16C DN900 Welded Wedged Gate Valve

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39. Seat without leakage during low pressure test for Z961H-16C DN900 Welded Wedged Gate Valve-1	40. Seat without leakage during low pressure test for Z961H-16C DN900 Welded Wedged Gate Valve-2

---END OF REPORT---