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	Dec. 5th, 2011	TTC1112019	46

A. Inspection information

Inspection order No.	11024
Report No.	TTC1112019
Description of the goods	Din gate valves and globe valve
Factory Name:	
Inspection place	Wenzhou city, China
Inspection period:	November 30th, December 4th, 2011
Report to be sent to:	
The factory's cooperation	Good

B. Nature of inspection

- 1. Quantity checking
- 2. Material checking
- 3. Traceability checking
- 4. Dimensions checking
- 5. Visual checking
- 6. Packing checking
- 7. Pressure test checking
- 8. Coating checking
- 9. Documents checking

C. Inspection summary

	Passed	Failed	Pending	N.A.	Remarks
1. Quantity	\checkmark				
2. Material				\checkmark	Certificate haven't been ready.
3. Traceability			\checkmark		See remark1
4. Visual			\checkmark		Remark1
5. Dimensional			\checkmark		Remark2
6. Packing				\checkmark	Haven't been packed.
7. Pressure test	\checkmark				
8. Coating			\checkmark		Remark3
9. Documents				\checkmark	The packing list haven't been ready
Pemarke	•	•	•		

Remarks:

1. Visual check for DN80PN40 globe valve:

Casting defect, see photo 23,31

Painting on flange face, see photo 30

Welding slag, see photo 32

Dent mark, see photo 33

Scratch mark, see photo 34

for DN250PN16 gate valve:



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redundant heat code on bonnet, see photo 63						
for DN100PN16 gate valve:						

marking unclear, see photo 81

burr, see photo 85

dent mark, see photo 86,94

painting defect, see photo 95

casting defect, see photo 100,101

for DN200PN16 gate valve:

dent mark, see photo 150,156

poor machined on flange face, see photo 157

for DN200PN16 gate valve (flange PN6):

dent mark, see photo 167,172

2. The dimension of **Raised face height** and **Flange thickness** are **out of tolerance**, see Table D3&D4.

3. The final painting for DN80PN40 globe valves have been finished, and the primer painting for the rest of the valves have been finished.

D. Inspection process

D1. Quantity checking

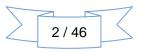
Qu	Quantity Unit: pcs								
		Order		Qu	antity Break	down	Sa	mple Size	;
Item	Туре	Qty	Serial No.	Packed	Unpacked	Unfinished	Dimension check	Visual check	Pressure test
1	DN250PN16 gate valve	1	1111601		1		1	1	1
2	DN100PN16 gate valve	30	1111602-1111631		30		3	15	3
3	DN200PN16 gate valve	10	1111632-1111641		10		2	6	2
4	DN80PN40 globe valve	10	1111644-1111653		10		3	6	2
5	DN200PN16 gate valve (flange PN6)	1	1111642		1		1	1	1
6	DN300PN16 gate valve (flange PN6)	1	1111643		1		1	1	1
	Total:	53			53		11	30	10

D2. Material checking

The certificate haven't been ready for the inspection.

D3&D4. The dimensional checking and heat code record

If the dimension is out of the tolerance we will mark it in red.



Unit (mm)

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T	G	(°°	Face	Diameter of	Flange	Dikki	Raised face	H	leat code	es
Item	Speci	fication	to face	bolt circle	thickness	Bolt hole	height	body	bonnet	disc
1	DN250 PN16	Standard	450 ± 3.0	355 ± 1.0	$26^{\scriptscriptstyle +4.0}_{\scriptscriptstyle -1.5}$	12-Φ26	3 ⁰ ₋₂			
1	gate valve	1111601	449.6	355.4/354.3	31.7/32.1	12- Φ 26.2	2.7/2.7	5551	6851	8810
	DN100	Standard	190 ± 2.0	180 ± 1.0	$20^{\scriptscriptstyle +4.0}_{\scriptscriptstyle -1.5}$	8- Φ 18	3 ₋₂			
2	PN16	1111606	189.9	180.1/180.4	20.1/21.7	8- Φ18.0	2.5/2.7	8404	8693	8459
	gate valve	1111610	191.0	180.1/179.9	20.8/21.6	8- Φ18.0	2.6/3.1	8573	8693	8465
	varve	1111611	189.3	179.8/180.1	20.2/21.9	8- Φ18.1	2.6/2.6	8573	8572	8473
2	DN200 PN16	Standard	230 ± 2.0	295 ± 1.0	$24_{\scriptscriptstyle -1.5}^{\scriptscriptstyle +4.0}$	12- Φ 22	3 ₋₂			
3	gate	1111632	230.0	294.7/294.9	25.7/24.3	12- Φ 22.4	3.0/2.5	5070	5068	8335
	valve	1111633	230.5	295.1/295.2	26.4/26.9	12-Φ22.2	2.5/2.8	8312	5068	5368
	DN80	Standard	310 ± 3.0	160 ± 1.0	$24_{\scriptscriptstyle -1.5}^{\scriptscriptstyle +4.0}$	8- Φ 18	3^{0}_{-2}			
4	PN40	1111653	310.2	159.9/159.8	25.2/24.8	8- Φ18.1	2.6/2.2	6862	8048	—
	globe valve	1111652	310.3	160.2/160.1	24.9/24.9	8- Φ18.2	2.2/2.4	6868	8036	—
	varve	1111648	309.4	160.1/160.2	24.9/25.6	8- Φ18.1	2.0/2.2	6862	8088	—
	DN200 PN16	Standard	230 ± 2.0	280 ± 1.0	$20^{\scriptscriptstyle +4.0}_{\scriptscriptstyle -1.5}$	8- Φ 18	3 ₋₂			
5	gate valve (PN6)	1111642	230.6	279.8/280.3	21.4/20.6	8-Ф18.0	3.1/2.8	H235	5068	H235
	DN300 PN16	Standard	270 ± 3.0	395 ± 1.0	$22^{\scriptscriptstyle +4.0}_{\scriptscriptstyle -1.5}$	12- Φ 22	4 ⁰ ₋₃			
6	gate valve (PN6)	1111643	270.6	395.5/395.8	23.1/22.6	12-Φ22.0	2.8/2.6	H235	H235	H235

D5. Photos for visual checking



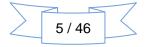
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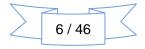
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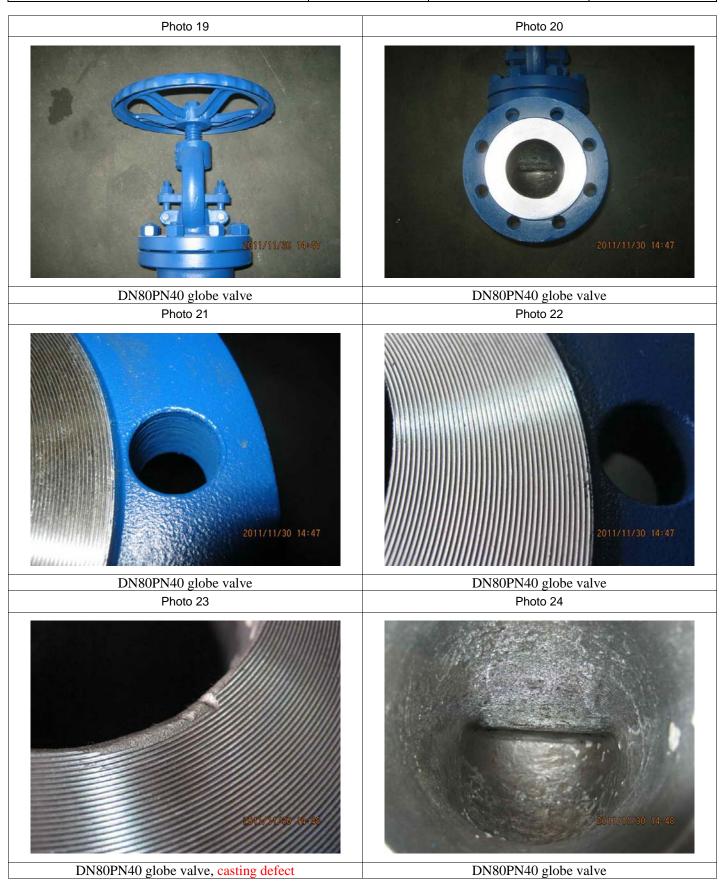


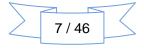
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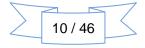
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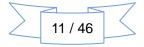
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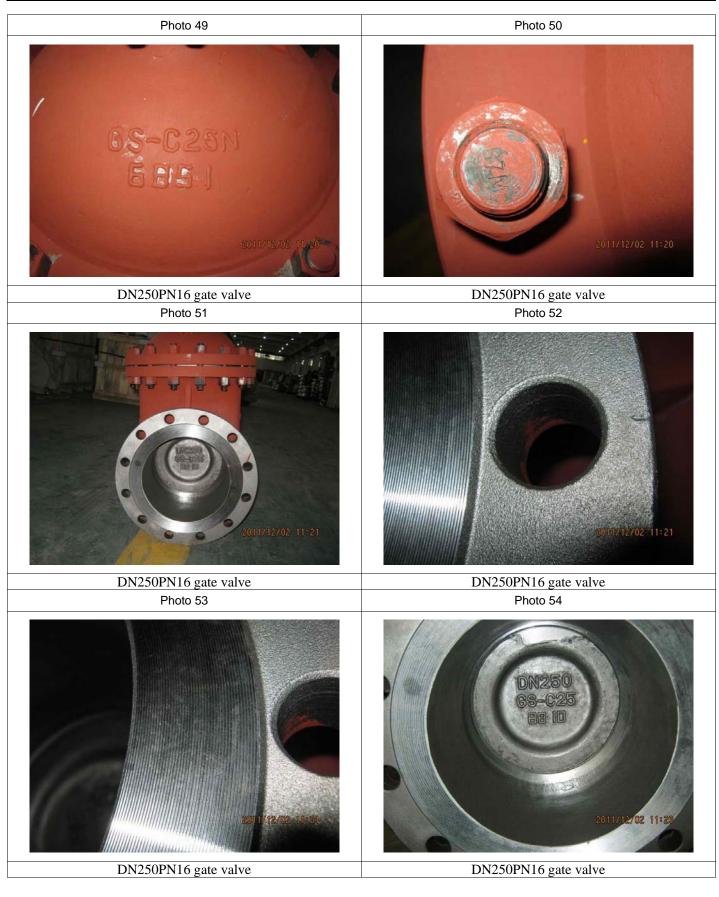


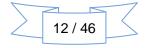
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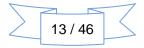
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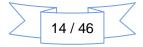
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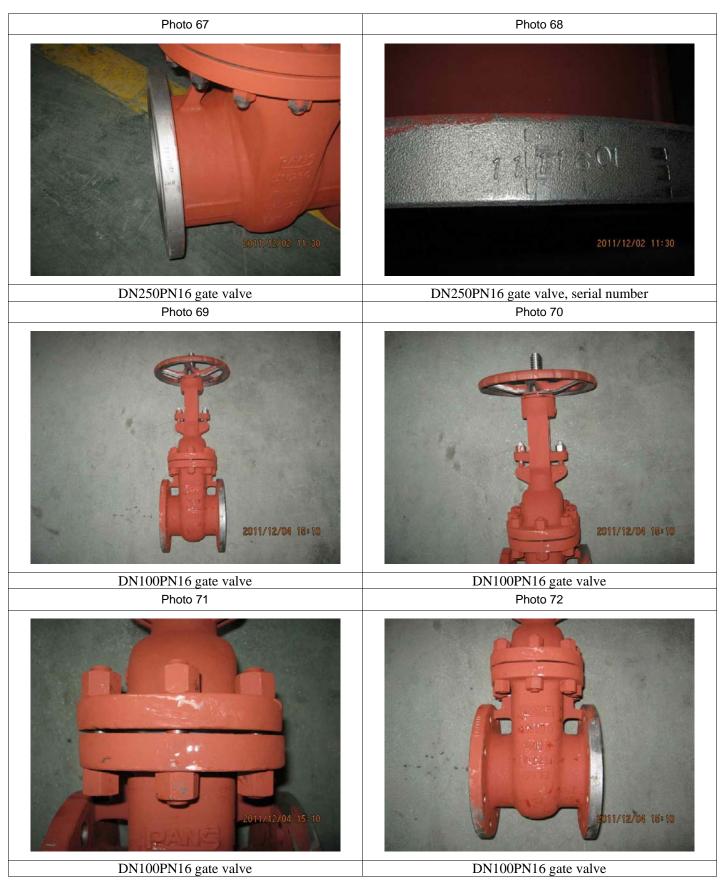


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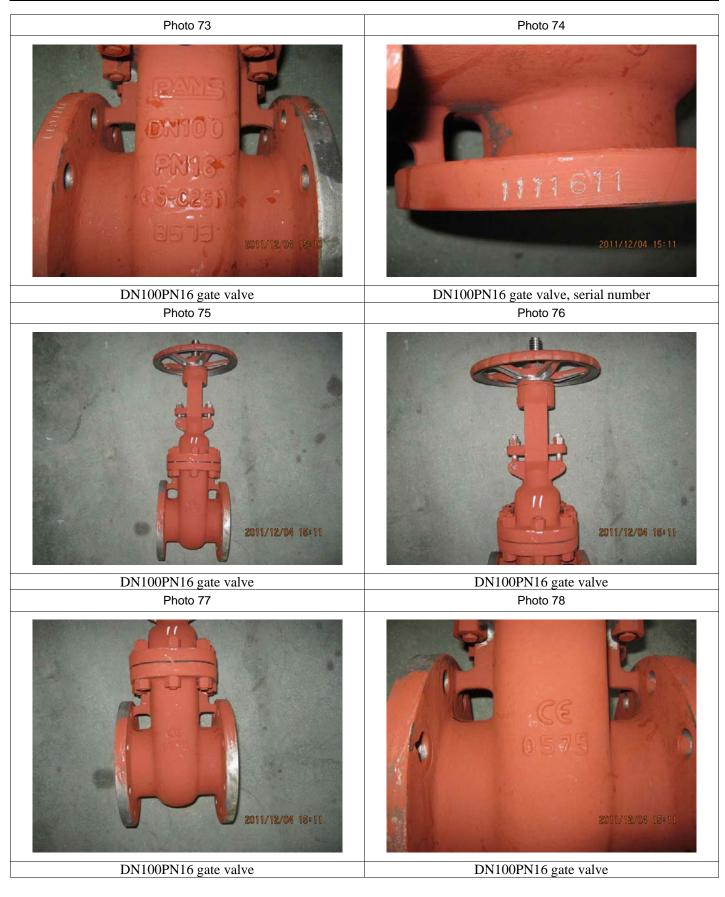


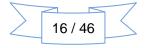
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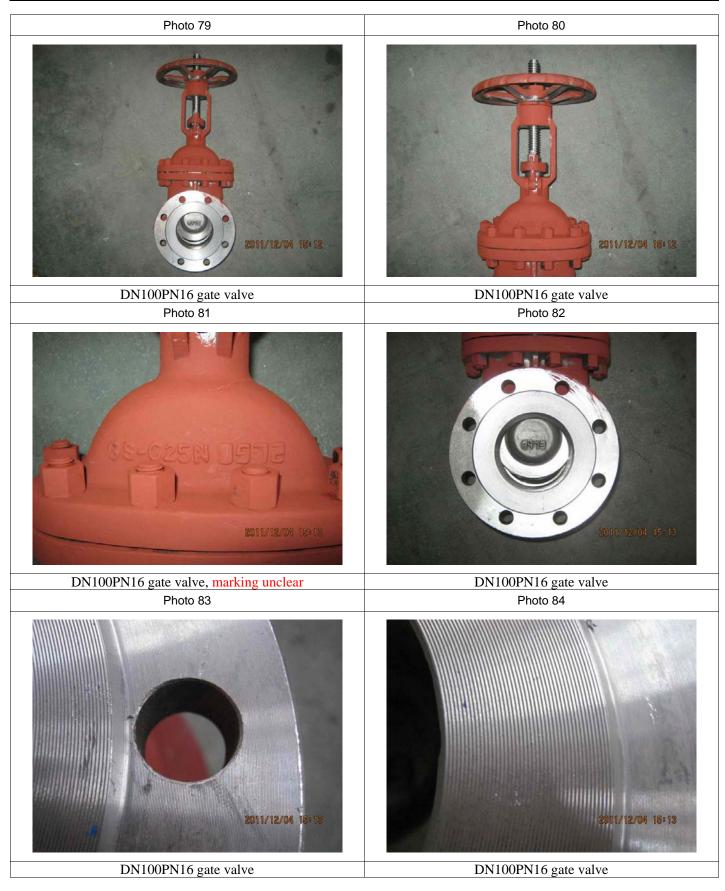


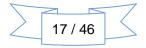
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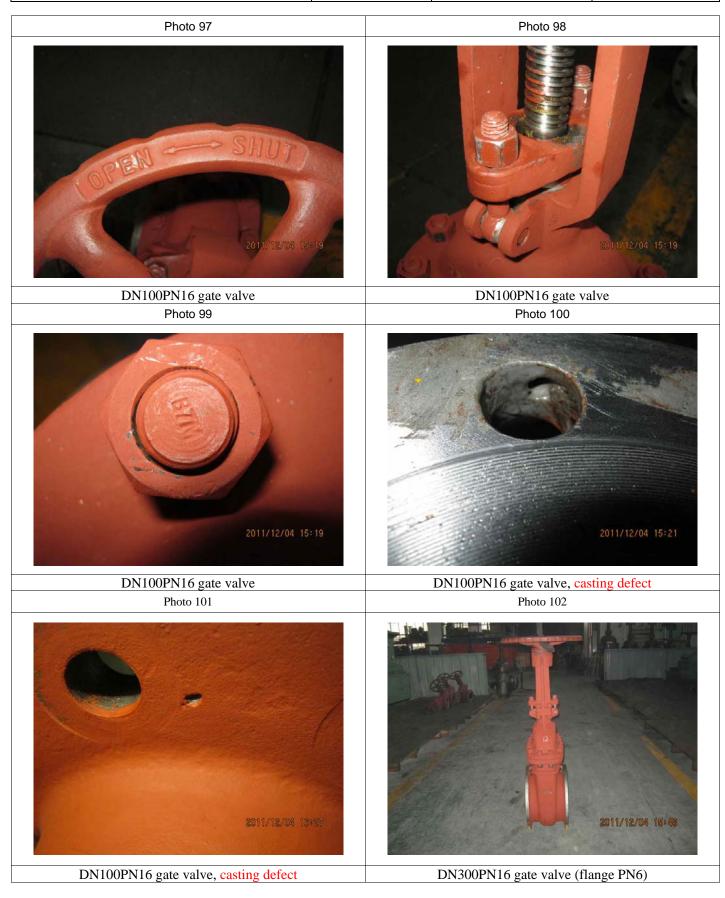
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	Dec. 5th, 2011	5th, 2011 TTC1112019 46		
Photo 85		Photo 86		
2011/12/04 96/14		2011/12/04 16-14		
DN100PN16 gate valve, burr Photo 87		DN100PN16 gate valve, o Photo 88	dent mark	
CENTRE AND	15		2011/12/08 18:18	
DN100PN16 gate valve Photo 89		DN100PN16 gate v Photo 90	alve	
	16		2011/12/04 15:16	
DN100PN16 gate valve	16	DN100PN16 gate v		

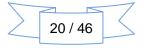
\geq	18 / 46	5

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Photo 91		Photo 92		
2011/12/04 15:16 DN100PN16 gate valve		DN100PN16 gate valve		
Photo 93		Photo 94		
2014/12/04 18	# 16		2011/12/04 15:17	
DN100PN16 gate valve		DN100PN16 gate valve, dent mark		
Photo 95	: 17	Photo 96	2011/12/04 15:19	
DN100PN16 gate valve, painting defect		DN100PN16 gate va	lve	

		-7
\geq	19 / 46	\leq

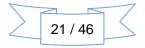
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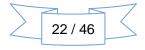


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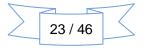
DN300PN16 gate valve (flange PN6)

DN300PN16 gate valve (flange PN6)



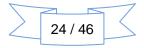
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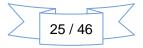
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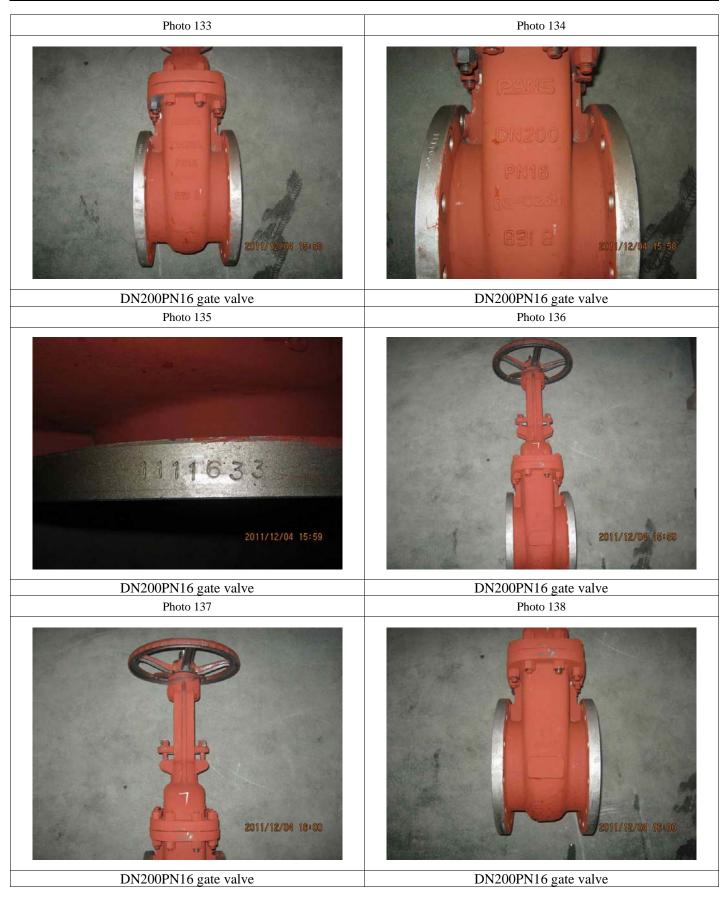


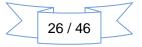
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Photo 127	Photo 128
2011/12/04 15:55	55 DN 3 CO 2011/12/04 15:56
DN300PN16 gate valve (flange PN6)	DN300PN16 gate valve (flange PN6)
Photo 129	Photo 130
	2011/12/04 15+65
DN300PN16 gate valve (flange PN6)	DN300PN16 gate valve (flange PN6)
Photo 131	Photo 132
DN200PN16 gate valve	DN200PN16 gate valve

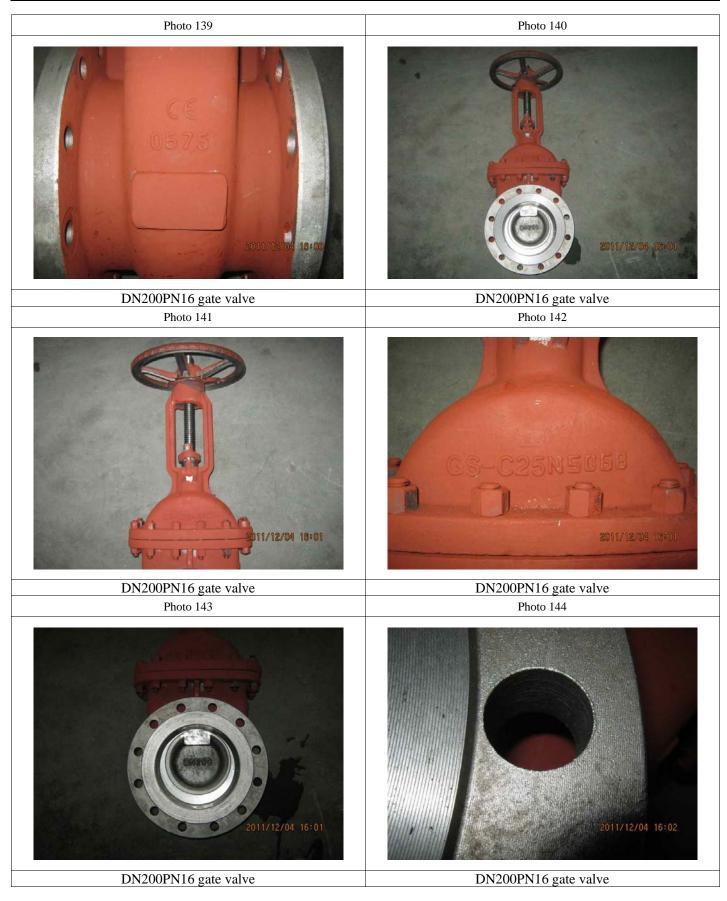


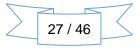
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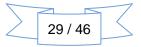
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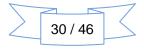
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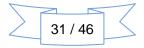
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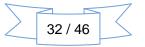




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D6. Pressure test checking

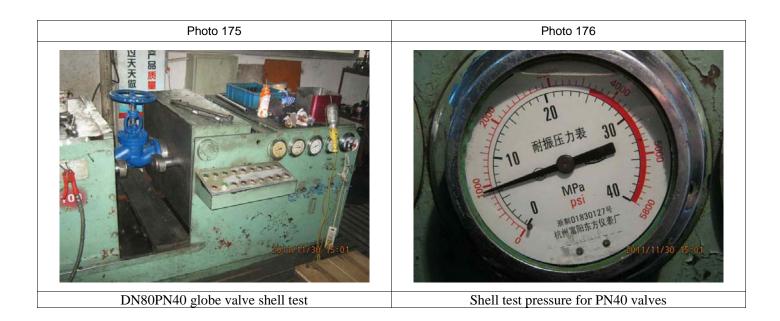


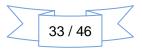
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					Pre	essure test	(remark1,2)				
Item	Specification	Qty/ pcs	Serial No.	Ch all 4a a4	Back	Hydrauli	ic seal test	Air se	eal test	Result	Remark
		pes		Shell test	seal test	left	right	left	right		
1	DN250PN16 gate valve	1	1111601	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	Pass	
			1111603	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	Pass	
2	2 DN100PN16 gate valve	3	1111610	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	Pass	
			1111611	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	Pass	
3	DN200PN16 gate	2	1111632	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	Pass	
3	valve	2	1111633	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	Pass	
4	DN80PN40 globe		1111651	\checkmark	\checkmark		\checkmark		\checkmark	Pass	
4	valve	2	1111644	\checkmark	\checkmark		\checkmark		\checkmark	Pass	
5	DN200PN16 gate valve (flange PN6)	1	1111642	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	Pass	
6	DN300PN16 gate valve (flange PN6)	1	1111643	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	Pass	
Remar	k: Test pressure: Shell	test: T	est pressure	≥1.5 times	the normi	nal pressu	re				

Back seal test: Test pressure \geq 1.1 times the norminal pressure Hydraulic seal test: Test pressure \geq 1.1 times the norminal pressure Air seal test: Test pressure \geq 6 bar.

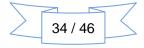
2. Duration of required test pressure : according with the valves' specification





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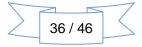
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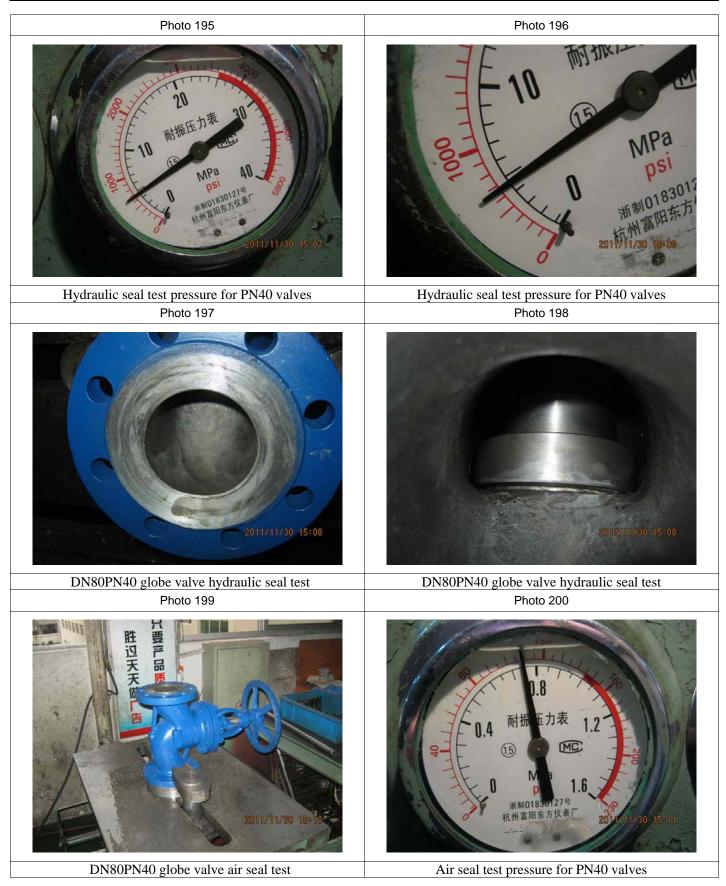


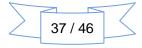
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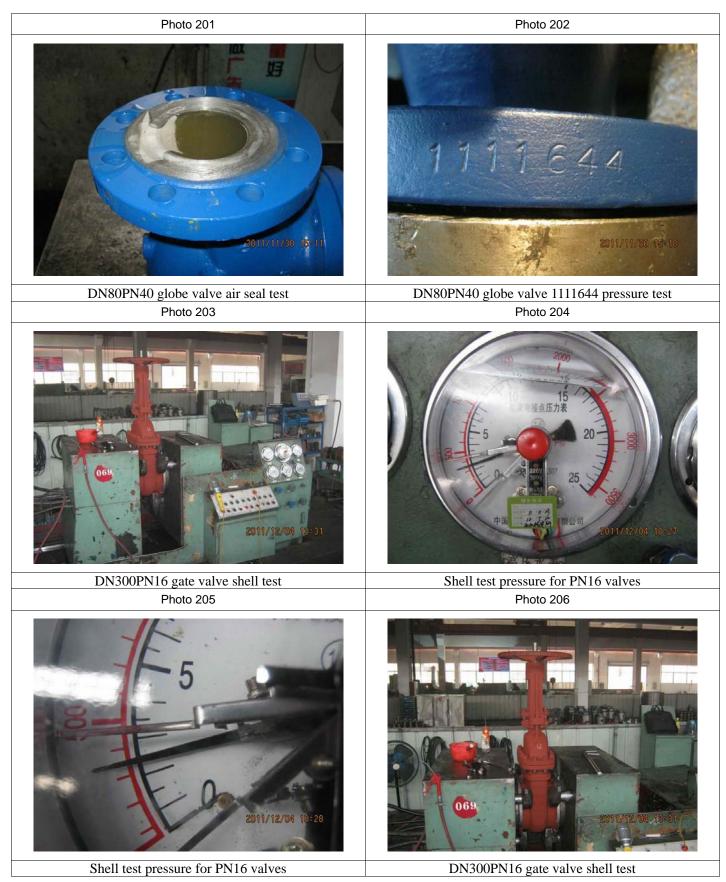


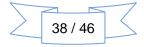
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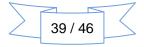
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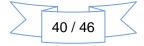
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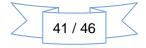


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DN300PN16 gate valve back seal test

DN300PN16 gate valve back seal test



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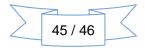
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Photo 249		Photo 250	
2011/12/04 14:		N/A	
DN200PN16 gate valve (flange PN6) 1111642 pressure test		N/A	

E. Factory promises

The main problem	The factory promise	
1. dimension out of tolerance	No promise	
2. casting defect	Will be improved	
3.scratch mark	Will be improved	
4. painting defect	Will be improved	
5. welding slag	Will be improved	
6. dent mark	Will be improved	
7. redundant heat code on bonnet	Will be improved	
8. marking unclear	Will be improved	
9. burr	Will be improved	
10. poor machined on flange face	Will rework on it	

THIS REPORT ONLY REFLECTED OUR ACTUAL FINDINGS. THE INSPECTION WAS DONE TO THE BEST OF OUR KNOWLEDGE AND ABILITY AND WITH DUE CARE. THE FINDINGS ARE VALID AS FOR TIME AND PLACE OF INSPECTION. THE CUSTOMER HAS THE FINAL DECISION TO REJECT OR APPROVE.

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