



DET NORSKE VERITAS
CERTIFICATE OF CONFORMITY
(Cert. No.: SHA/872728/1301-677)

Manufacturer : Tiansheng Valve Group Co., Ltd.
Manufacturer Location : Dongou Industry Zone, Oubei Town, Yongjia County, Wenzhou, Zhejiang, China.
Standard : API STD 607, SIXTH EDITION, SEPTEMBER 2010.
DNV Project No. : Z0439497

This is to certify that the fire tests for below valves have been carried out at the laboratory designated the manufacturer and witnessed by DNV inspector according to the requirement of API Std 607, sixth edition. The test results of valves meet the requirement of API Std 607, sixth edition.

1. Description of test valves:

Type of test valve	Ball Valve
Description of Test Valve	8", Class 600, Fixed, RF Flanged End
Material of body	ASTM A105

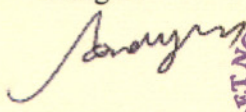
Further detail are given overleaf

2. Qualified Range of valves:

Type	Ball Valves	
Description of Valve	Fixed, RF Flanged End	
Qualified Nominal Sizes(NPS)	8 and larger	
Qualified Pressure Ratings(Class and PN)	Class 600/ 800/900	PN100/150
Qualified Material of Valve Body	Ferritic steel	
Qualified Material of bolting	alloy steel, Austenitic steel	
Nonmetallic material	Same as test valve	

This certificate is issued according to API STD 607 SIXTH EDITION, SEPTEMBER 2010, based on the result of test report on above mentioned test valve. The other valve qualification shall be limited on same basic design as the test valves and subjected to the limitations in API STD 607 SIXTH EDITION, SEPTEMBER 2010, Para. 7

For **DET NORSKE VERITAS AS**
Shanghai



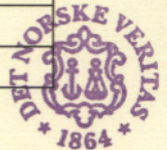

Andy Guo
Issued in Shanghai
On Jan.28, 2013



Cert. No.: SHA/872728/1301-677

Technical data and files of test valve

Type of test valve	Ball Valve
Description of Test Valve	3 pieces Ball valve, RF Flanged End, worm-gear handle
Nominal size(NPS)	8"
Pressure rating(Class)	600
Body	ASTM A105
Body Cap	ASTM A105
Stem	ATM A182 F6a
Seat Seal	MOLON
Stem Packing	Flexible Graphite
Body Seal	304+ flexible Graphite
Body Bolting	ASTM A193 B7
Body Bolting Nuts	ASTM A194 2H
Drawing No.	8"Q347N-600LB-00
Test Report No.	委 FM201301005





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1. Description of test valves:

Type of test valve	Ball Valve
Description of Test Valve	2", Class 150, Fixed, RF Flanged End
Material of body	ASTM A105

Further detail are given overleaf

2. Qualified Range of valves:

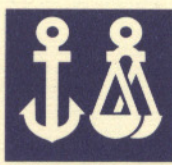
Type	Ball Valves	
Description of Valve	Fixed, RF Flanged End	
Qualified Nominal Sizes(NPS)	2 and below; 2 1/2; 3; 4	
Qualified Pressure Ratings(Class and PN)	Class 150/300	PN10/16/25/40
Qualified Material of Valve Body	Ferritic steel	
Qualified Material of bolting	alloy steel, Austenitic steel	
Nonmetallic material	Same as test valve	

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**DNV****Cert. No.: SHA/872728/1301-672****Technical data and files of test valve**

Type of test valve	Ball Valve
Description of Test Valve	2 pieces Ball valve, RF Flanged End, handle
Nominal size(NPS)	2
Pressure rating(Class)	150
Body	ASTM A105
Body Cap	ASTM A105
Stem	ATM A182 F6a
Seat Seal	PTFE
Stem Packing	Flexible Graphite
Body Seal	304+Flexible Graphite
Body Bolting	ASTM A193 B7
Body Bolting Nuts	ASTM A194 2H
Drawing No.	2"Q47F-150-00
Test Report No.	委 FM201301003





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Standard : API STD 607, SIXTH EDITION, SEPTEMBER 2010.
DNV Project No. : Z0439497

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1. Description of test valves:

Type of test valve	Ball Valve
Description of Test Valve	2", Class 600, Fixed, RF Flanged End
Material of body	ASTM A105

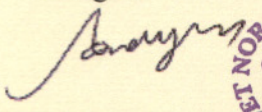
Further detail are given overleaf

2. Qualified Range of valves:

Type	Ball Valves	
Description of Valve	Fixed, RF Flanged End	
Qualified Nominal Sizes(NPS)	2 and below; 2 1/2; 3; 4	
Qualified Pressure Ratings(Class and PN)	Class 600/800/900	PN100/150
Qualified Material of Valve Body	Ferritic steel	
Qualified Material of bolting	alloy steel, Austenitic steel	
Nonmetallic material	Same as test valve	

This certificate is issued according to API STD 607 SIXTH EDITION, SEPTEMBER 2010, based on the result of test report on above mentioned test valve. The other valve qualification shall be limited on same basic design as the test valves and subjected to the limitations in API STD 607 SIXTH EDITION, SEPTEMBER 2010, Para. 7

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Cert. No.: SHA/872728/1301-673

Technical data and files of test valve

Type of test valve	Ball Valve
Description of Test Valve	3 pieces Ball valve, RF Flanged End, handle
Nominal size(NPS)	2
Pressure rating(Class)	600
Body	ASTM A105
Body Cap	ASTM A105
Stem	ATM A182 F6a
Seat Seal	MOLON
Stem Packing	Flexible Graphite
Body Seal	304+Flexible Graphite
Body Bolting	ASTM A193 B7
Body Bolting Nuts	ASTM A194 2H
Drawing No.	2"Q47N-600-00
Test Report No.	委 FM201301007





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Standard : API STD 607, SIXTH EDITION, SEPTEMBER 2010.
DNV Project No. : Z0439497

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1. Description of test valves:

Type of test valve	Ball Valve
Description of Test Valve	4", Class 150, Fixed, RF Flanged End
Material of body	ASTM A105

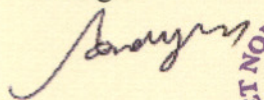
Further detail are given overleaf

2. Qualified Range of valves:

Type	Ball Valves	
Description of Valve	Fixed, RF Flanged End	
Qualified Nominal Sizes(NPS)	4,5,6,8	
Qualified Pressure Ratings(Class and PN)	Class 150/300	PN10/16/25/40
Qualified Material of Valve Body	Ferritic steel	
Qualified Material of bolting	alloy steel, Austenitic steel	
Nonmetallic material	Same as test valve	

This certificate is issued according to API STD 607 SIXTH EDITION, SEPTEMBER 2010, based on the result of test report on above mentioned test valve. The other valve qualification shall be limited on same basic design as the test valves and subjected to the limitations in API STD 607 SIXTH EDITION, SEPTEMBER 2010, Para. 7

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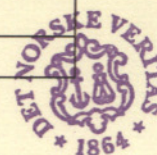


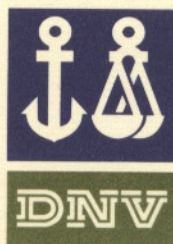


Cert. No.: SHA/872728/1301-674

Technical data and files of test valve

Type of test valve	Ball Valve
Description of Test Valve	2 pieces Ball valve, RF Flanged End, handle
Nominal size(NPS)	4
Pressure rating(Class)	150
Body	ASTM A105
Body Cap	ASTM A105
Stem	ATM A182 F6a
Seat Seal	PTFE
Stem Packing	Flexible Graphite
Body Seal	304+Flexible Graphite
Body Bolting	ASTM A193 B7
Body Bolting Nuts	ASTM A194 2H
Drawing No.	4"Q47F-150-00
Test Report No.	委 FM201301006





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Standard : API STD 607, SIXTH EDITION, SEPTEMBER 2010.
DNV Project No. : Z0439497

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1. Description of test valves:

Type of test valve	Ball Valve
Description of Test Valve	4", Class 600, Fixed, RF Flanged End
Material of body	ASTM A105

Further detail are given overleaf

2. Qualified Range of valves:

Type	Ball Valves	
Description of Valve	Fixed, RF Flanged End	
Qualified Nominal Sizes(NPS)	4,5,6,8	
Qualified Pressure Ratings(Class and PN)	Class 600/800/900	PN100/150
Qualified Material of Valve Body	Ferritic steel	
Qualified Material of bolting	alloy steel, Austenitic steel	
Nonmetallic material	Same as test valve	

This certificate is issued according to API STD 607 SIXTH EDITION, SEPTEMBER 2010, based on the result of test report on above mentioned test valve. The other valve qualification shall be limited on same basic design as the test valves and subjected to the limitations in API STD 607 SIXTH EDITION, SEPTEMBER 2010, Para. 7

For **DET NORSKE VERITAS AS**
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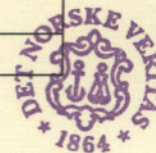
Andy Guo
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On Jan.28, 2013



Cert. No.: SHA/872728/1301-675

Technical data and files of test valve

Type of test valve	Ball Valve
Description of Test Valve	3 pieces Ball valve, RF Flanged End, handle
Nominal size(NPS)	4
Pressure rating(Class)	600
Body	ASTM A105
Body Cap	ASTM A105
Stem	ATM A182 F6a
Seat Seal	MOLON
Stem Packing	Flexible Graphite
Body Seal	304+Flexible Graphite
Body Bolting	ASTM A193 B7
Body Bolting Nuts	ASTM A194 2H
Drawing No.	4"Q47N-600-00
Test Report No.	委 FM201301019





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1. Description of test valves:

Type of test valve	Ball Valve
Description of Test Valve	8", Class 150, Fixed, RF Flanged End
Material of body	ASTM A105

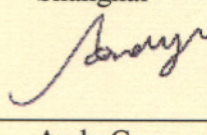
Further detail are given overleaf

2. Qualified Range of valves:

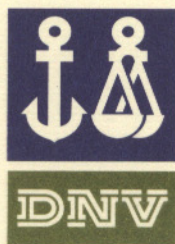
Type	Ball Valves	
Description of Valve	Fixed, RF Flanged End	
Qualified Nominal Sizes(NPS)	8 and larger	
Qualified Pressure Ratings(Class and PN)	Class 150/300	PN10/16/25/40
Qualified Material of Valve Body	Ferritic steel	
Qualified Material of bolting	alloy steel, Austenitic steel	
Nonmetallic material	Same as test valve	

This certificate is issued according to API STD 607 SIXTH EDITION, SEPTEMBER 2010, based on the result of test report on above mentioned test valve. The other valve qualification shall be limited on same basic design as the test valves and subjected to the limitations in API STD 607 SIXTH EDITION, SEPTEMBER 2010, Para. 7

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Cert. No.: SHA/872728/1301-676

Technical data and files of test valve

Type of test valve	Ball Valve
Description of Test Valve	3 pieces Ball valve, RF Flanged End, worm-gear handle
Nominal size(NPS)	8"
Pressure rating(Class)	150
Body	ASTM A105
Body Cap	ASTM A105
Stem	ATM A182 F6a
Seat Seal	PTFE
Stem Packing	Flexible Graphite
Body Seal	304+ flexible Graphite
Body Bolting	ASTM A193 B7
Body Bolting Nuts	ASTM A194 2H
Drawing No.	8"Q347F-150LB-MX
Test Report No.	委 FM201301004

