

	Ball Valves Test Certificate Cert Type: EN 10204 - 2004 & 3.1				Cert No.: MTC-1908001519	
					Date: Thursday Jan-16-2020	
					Page No.: 1 of 2	
VALVE INFORMATION						
Ball Valve Type	Trunnion	Customer PO No.	MGA3474881	Serial Number	1908001519-1~1908001519-5	
Size	3*2"	FZV Job No./Item	19080015	TAG Number	NA	
Class	1500	Quantity	5	Figure Number	TB3R30R15LH-11BBA	
VALVE DESIGN CODE						
Design Std :	CSA Z245.15-17; API 608 Rev 2012, API 6D Rev 24; ISO 17292 Rev.2015CSA B51-09.Rev 2009	Pressure & Temp Std :	ASME B16.34-2017	Sour Requirement :	NACE MR 0175-2015. ISO 15156-2015CSA Z245.15-17	
		Testing Std :	API 6D-2014	Sour Region :	3	
		Face To Face Std :	ASME B16.10-2017	Visual & Marking Std :	MSS SP-25-2013	
		End Connection Std :	ASME B16.5-2017	Fire Safe Design :	ISO 10497-2010, API 607-2016	
VALVE PARTS MATERIALS		VALVES PRESSURE TEST				OTHER INSPECTIONS
Body	ASTM A350-15 LF2 CL1	Test Project	Shell (Water)	H.P Pressure (Water)	L.P Pressure (Air)	Visual : Accept
End Cap	ASTM A350-15 LF2 CL1	Pressure (Mpa/psi)	38.8/5628	28.5/4134	0.6/87	Dimension : Accept
Ball	ASTM A350-15 LF2 CL1+0.075mmENP	Time (Min)	2	2	2	Operation : Accept
Seat	ASTM A350-15 LF2 CL1+0.075mmENP+ DEVLON	Test Result	Accept	Accept	Accept	Marking : Accept
Stem	ASTM A29-12 4140+0.075mm ENP	SPECIAL COMMENTS: O-rings:HNBR-LT(AED) Firesafe Seal:Graphite + 316SS				
Stud	ASTM A320-15 L7M					
Nut	ASTM A194-16 7M					
We hereby certify that the above valves have been tested with positive test results and all the valves comply to the specification of the purchase order.				(TPI) Witnessed By:		FZV QC Manager: 

ADD: Heyi Industrial Zone, Oubei Town, Wenzhou City, Zhejiang Province, China

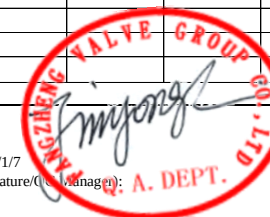
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FZV the quality management system is approved and implemented according to ISO9001 and APIQ1.





MATERIAL TEST REPORT

Cert Type : EN 10204 3.1 REV-2004



Fangzheng Valve Group Co.,Ltd

Certificate No :MTC-1908001519

FZV/QR8.2.4-15.0

MECHANICAL PROPERTIES

Component	Material	Heat No.	TS(Mpa)	YS(Mpa)	Elong A%	Red, of	AKV1 -46℃	AKV2 -46℃	AKV3 -46℃	HB
	ASTM A350-15 LF2 CL1	Requirements	485-655	≥250	≥22	≥30	≥27J	≥27J	≥27J	≤197
Body	LF2	209493	538	334	36	52	37	42	37	175
End Cap	LF2	209493	538	334	36	52	37	42	37	175
Ball	LF2+ENP	SMT0803	511	299	36	71	140	139	143	155
Seat	LF2+ENP	17374325	569	361	35	57	69	78	74	156

Component	Material	Heat No.	TS(Mpa)	YS(Mpa)	Elong A%	Red, of	AKV1 -46℃	AKV2 -46℃	AKV3 -46℃	HB
	ASTM A29-12 4140+0.075mm ENP	Requirements	≥795	≥655	≥12	≥45	≥34	≥34	≥34	≤217
Stem	4140	HG5512	826	671	18	49	72	70	73	186

Component	Material	Heat No.	TS(Mpa)	YS(Mpa)	Elong A%	Red, of	AKV1 -73℃	AKV1 -73℃	AKV1 -73℃	HB
	ASTM A320-15 L7M	Requirements	≥690	≥550	≥18	≥50	≥27J	≥27J	≥27J	≤235
Stud	L7M	D93145F	732	619	27	61	35	39	38	210
	ASTM A194-16 7M	Requirements	-	-	-	-	-	-	-	159-235
Nut	7M	F357814	-	-	-	-	36	39	37	195

We certify all materials are manufactured inspected and tested in accordance with the ASTM material specification.

DATE: 2020/1/7
(Authorized Signature/QC Manager):





Ball Valves Test Certificate

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Date: Thursday Jan-16-2020

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Product Traceability Table

Valve Serial No.	Material Heat Numbers							
	Body Heat	End Cap Heat	Ball Heat	Seat Heat	Stem Heat	Stud Heat	Nut Heat	Other Heat
1908001519-1	209493	209493	SMT0803	17374325	HG5512	D93145F	F357814	
1908001519-2	209493	209493	SMT0803	17374325	HG5512	D93145F	F357814	
1908001519-3	209493	209493	SMT0803	17374325	HG5512	D93145F	F357814	
1908001519-4	209493	209493	SMT0803	17374325	HG5512	D93145F	F357814	
1908001519-5	209493	209493	SMT0803	17374325	HG5512	D93145F	F357814	

We hereby certify that the above valves have been tested with positive test results and all the valves comply to the specification of the purchase order.

(TPI) Witnessed By:

FZV QA Manager:



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