

QuarterTurn

RESOURCES INC.



P.O. Box 1455
Ponca City, OK 74602
Office: (580) 765-0183
Fax: (580) 765-0182

QTR WO: Q29946-7
F-580-026, R7

CERTIFICATE OF CONFORMANCE

Customer: ARS Global PO#: 10

Description: 12" 150# RFFE Vitas Swing Check Valve

Quantity: 12 S/N(s): 9E-1857, 1859, 1860, 1861, 1862, 1865,
1866
5P-8671, 8672, 8673, 8674, 8675

THE EQUIPMENT LISTED ABOVE CONFORMS TO THE FOLLOWING:

API-6D (X) NACE MR-0175; (X) Fire-Safe per (X)
Part 1 & 2 API 6FA

We certify that the material listed above has been manufactured and tested in accordance with API 6D, Valvitalia standards, and customer purchase order requirements. Material listed has successfully passed all mandatory test and meets supplemental requirements as noted above.

Michael Carson
Quality Assurance Manager

Date: 3/16/22

IT4/ITVITA84

**SMERAL BRNO a.s.**Křenová 65c, 658 25 Brno, Česká republika
tel.: +420 543 257 107, fax: +420 543 255 143EN ISO 9001:2000
Zertifikat Nr. 041004179000-E1**INSPECTION CERTIFICATE acc. to EN 10 204 3.1**

No.: 15466

Customer	V A L V I T A L I A S. p. A.	Customer	90.0.5.001
Name:	V I T A S	P.O.:	05-1-5740

Order No.:	Material:	According to norm.:
0 0 0 0 3 8 1	A216 WCC	ASTM A 370

Chemical analysis [%]	Heat No.:	Meltingfurnace:
Required:	V0552	E
C Mn Si P S Cr Ni Cu Mo V CE		
Min		
Max	0,25 1,40 0,60 0,04 0,045 0,50 0,50 0,30 0,20 0,03	
There is:		
	0,21 0,87 0,01 0,03 0,03 0,04 0,02 0,03 0,13 0 0,39	

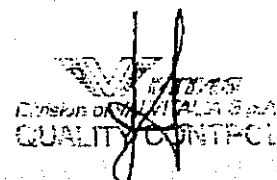
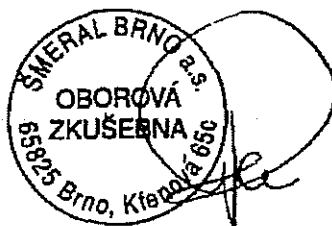
Heat treatment: Norm. 920°C - Temp. 620°C

Mechanical properties:

Pattern No.:	001H 712 FAM AV1/VENT 1/2"	Casting:	BODY 12''150 CHECK	Piece:	20	
Serial No.:	1					
	Yield Point [Mpa]	Tensile strenght [Mpa]	Elongation [%]	Reduction [%]	Impact Value [J] [+20 C°]	Hardness [HB]
Required: min:	275	485	22	35		
max:		655				
There is:						
Test piece no.:	2783	297	495	30	58	0/0/0 156

MT According to ANSI B16.34 APP.II
Visual Examination ACC. TO MSS SP 55

We hereby certify that the material described above has been tested and compiles the terms of the contract

25/03/2009
DateOldrich WANKE
Quality Department

**ŠMERAL BRNO a. s.**Křenová 65c, 658 25 Brno, Česká republika
tel.: +420 543 257 107, fax: +420 543 255 143EN ISO 9001:2000
Zertifikat Nr. 04100117W000-ET**INSPECTION CERTIFICATE acc. to EN 10 204 3.1**

No.: 15468

Customer	V A L V I T A L I A S. p. A.				Customer	90.0.5.001					
Name:	V I T A S				P.O.:	05-1-5740					
Order No.:	0 0 0 0 3 8 1		Material:	A216 WCC		According to norm.:	ASTM A 370				
Chemical analysis [%]			Heat No.: V0556			Meltingfurnace: E					
Required:											
	C	Mn	Si	P	S	Cr	Ni	Cu	Mo	V	CE
Min											
Max	0,25	1,40	0,60	0,04	0,045	0,50	0,50	0,30	0,20	0,03	
There is:											
	0,22	0,79	0,02	0,03	0,03	0,04	0,02	0,03	0,04	0,01	0,37
Heat treatment:		Norm. 920°C - Temp. 620°C									
Mechanical properties:											
Pattern No.: 001H 712 FAM AV1/VENT 1/2"						Casting:		BODY 12" 150 CHECK		Piece:	
Serial No.: 1										20	
		Yield Point [Mpa]	Tensile strenght [Mpa]	Elon-gation [%]	Redu-ction [%]	Impact Value [J] [+20 C°]	Hardness [HB]				
Required: min:		275	485	22	35						
max:			655								
There is:											
Test piece no.:	2783	291	488	27	40	0/0/0	162				

MT According to ANSI B16.34 APP.II

Visual Examination ACC. TO MSS SP 55

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25/03/2009

Date

Oldrich WANKE
Quality Department

QUALITY CONTROL

**ŠMERAL BRNO a. s.**Křenová 65c, 658 25 Brno, Česká republika
tel.: +420 543 257 107, fax: +420 543 255 143EN ISO 9001:2000
Zertifizace Nr. 041004179/000-E1**INSPECTION CERTIFICATE acc. to EN 10 204 3.1**

No.: 15470

Customer Name:	VALVITALIA S. p. A.		Customer P.O.:	90.0.5.001 05-1-5740							
Order No.:	0 0 0 0 3 8 1		Material:	A216 WCC							
			According to norm.:	ASTM A 370							
Chemical analysis [%]			Heat No.: V0563		Meltingfurnace: E						
Required:											
	C	Mn	Si	P	S	Cr	Ni	Cu	Mo	V	CE
Min											
Max	0,25	1,40	0,60	0,04	0,045	0,50	0,50	0,30	0,20	0,03	
There is:											
	0,21	0,40	0,02	0,03	0,03	0,03	0,02	0,03	0,04	0	0,29
Heat treatment:						Norm. 920°C - Temp. 620°C					
Mechanical properties:											
Pattern No.: 001H 712 FAM AV1/VENT 1/2"						Casting: BODY 12" 150 CHECK			Piece: 20		
Serial No.: 1											
	Yield Point [Mpa]	Tensile strength [Mpa]	Elongation [%]	Reduction [%]	Impact Value [J] [+20 C°]	Hardness [HB]					
Required: min:	275	485	22	35							
max:		655									
There is:											
Test piece no.:	2783	294	501	34	47	0/0/0		162			

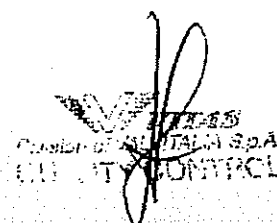
MT According to ANSI B16.34 APP.II

Visual Examination ACC. TO MSS SP 55

We hereby certify that the material described above has been tested and compiles the terms of the contract

25/03/2009

Date

Oldrich WANKE
Quality Department

**ŠMERAL BRNO a. s.**

Křenová 65c, 658 25 Brno, Česká republika
tel.: +420 543 257 107, fax: +420 543 255 143



EN ISO 9001:2000
Zertifiziert Nr. 041004179000-E7

INSPECTION CERTIFICATE acc. to EN 10 204 3.1

No.: 15471

Customer V A L V I T A L I A S. p. A. Customer 90.0.5.001
Name: V I T A S P.O.: 05-1-5740

Order No.: 0 0 0 0 3 8 1 Material: A216 WCC According to norm.: ASTM A 370

Chemical analysis [%] Heat No.: V0564 Meltingfurnace: E
Required:
C Mn Si P S Cr Ni Cu Mo V CE
Min
Max 0,25 1,40 0,60 0,04 0,045 0,50 0,50 0,30 0,20 0,03
There is:
0,22 0,38 0,02 0,03 0,03 0,03 0,01 0,03 0,04 0 0,30

Heat treatment: Norm. 920°C - Temp. 620°C

Mechanical properties:

Pattern No.: 001H 712 FAM AV1/VENT 1/2" Casting: BONNET 12''150 CHECK Piece: 20
Serial No.: 1
Yield Point [Mpa] Tensile strength [Mpa] Elongation [%] Reduction [%] Impact Value [J] [+20 C°] Hardness [HB]
Required: min: 275 485 22 35
max: 655
There is:
Test 2783 294 507 42 51 0/0/0 158
piece
no.:

MT According to ANSI B16.34 APP.II
Visual Examination ACC. TO MSS SP 55

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25/03/2009
Date

Oldrich WANKE
Quality Department



WITNESS
Department of Quality Control


SMERAL BRNO a. s.

 Křenová 65c, 658 25 Brno, Česká republika
 tel.: +420 543 257 107, fax: +420 543 255 143

 EN ISO 9001:2000
 Zertifikat Nr. 041004179/0006-ET

INSPECTION CERTIFICATE acc. to EN 10 204 3.1

No.: 15469

Customer	V A L V I T A L I A S. p. A.	Customer	90.0.5.001
Name:	V I T A S	P.O.:	05-1-5740

Order No.:	Material:	According to norm.:
0 0 0 0 3 8 1	A216 WCC	ASTM A 370

Chemical analysis [%]	Heat No.: V0557	Meltingfurnace: E
Required:		
C Mn Si P S Cr Ni Cu Mo V CE		
Min		
Max 0,25 1,40 0,60 0,04 0,045 0,50 0,50 0,30 0,20 0,03		
There is:		
0,21 0,38 0,02 0,03 0,03 0,02 0,01 0,01 0,03 0 0,28		

Heat treatment: Norm. 920°C - Temp. 620°C

Mechanical properties:

Pattern No.:	001H 712 FAM AV1/VENT 1/2"	Casting:	BONNET 12''150 CHECK	Piece:	20	
Serial No.:	1					
	Yield Point [Mpa]	Tensile strenght [Mpa]	Elongation [%]	Reduction [%]	Impact Value [J] [+20 C°]	Hardness [HB]
Required: min:	275	485	22	35		
max:		655				
There is:						
Test piece no.:	2783	297	497	31	46	0/0/0 163

 MT According to ANSI B16.34 APP.II
 Visual Examination ACC. TO MSS SP 55

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 25/03/2009
 Date

 Oldrich WANKE
 Quality Department

 VALVITAS
 Division of VALVITAS SpA
 QUALITY CONTROL