

CERTIFICAT

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認証証書

CERTIFICATE

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Member of



Industrie Service

CERTIFICATE

**EC Type - Examination (Module B)
Acc. To Directive 97/23/EC
Pressure Equipment Directive**

Certificate-No.: USA-10-12-003-003

for

**Continental Disc Corporation
3160 West Heartland Drive
Liberty, MO 64068, USA**

We hereby certify, that the type described below meets the provisions of
Directive 97/23/EC

Description of the type:
Tension Acting Scored Bursting Disc Safety Devices
drawing: PEDTASOLID Rev C
Design Examination Report#: **P- USA-10-10-003-003 R3**

The validity of this certificate expires in 10 years from date of issuance
It may be extended upon request.

A module combination as described in Annex II of Directive 97/23/EC is required for conformity assessment and
CE marking

Austin

December 29, 2010

TÜV SÜD
Industrie Service GmbH,
Notified body No. 0036

Test Laboratory for Pressure Equipment

Norbert Mueller

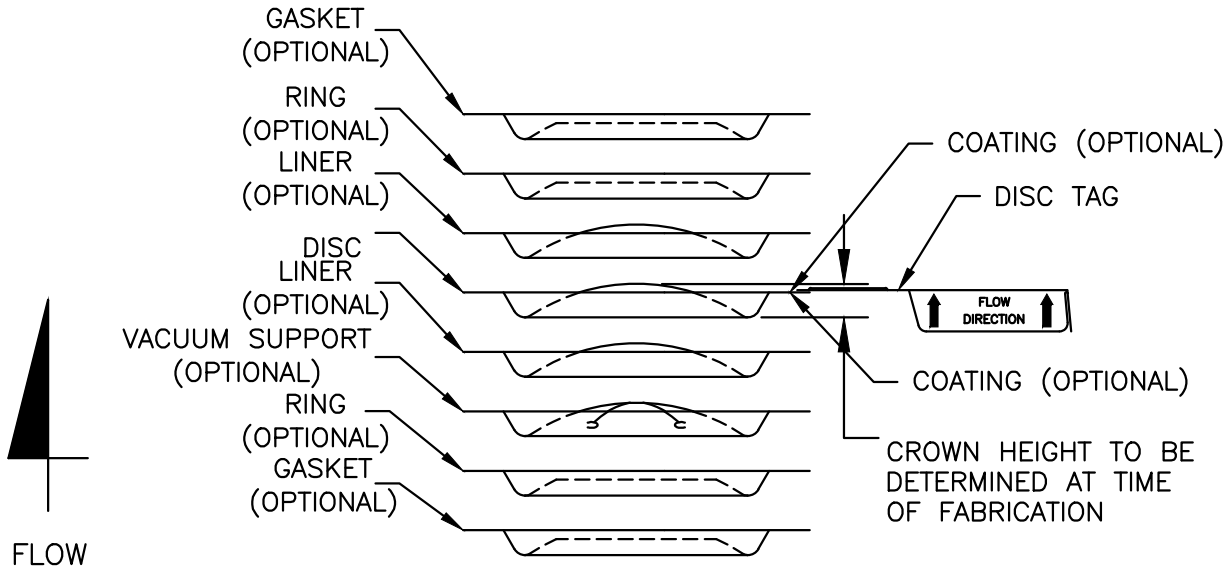
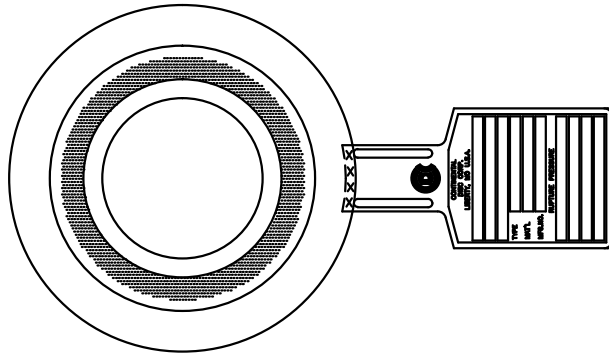
TÜV SÜD
Industrie Service GmbH
Westendstrasse 199
D-80686 München

Contact:
TUV SUD America
Industry Service
5 Cherry Hill Drive
Danvers, MA 01923

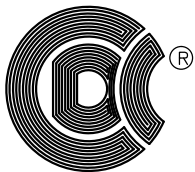
Member of
CONFÉDERATION EUROPÉEN



D'ORGANISMES DE CONTROLE



NAME	SIZE	PRESSURE	HOLDER
STD	1/8"-36"	3-80,000 PSIG	7I INSERT
			FULL BOLTED
			UNION
			SCREW TYPE
			WELDED
			TITE-SEAL
			QUICK CHANGE
FA	1/4"-36"	3-80,000 PSIG	FA INSERT



Continental Disc Corporation

3160 West Heartland Drive
Liberty, Missouri 64068

LOG NUMBER: PEDTASOLID

12-14-10	DATE	UNLESS OTHERWISE NOTED: DIMENSIONS ARE IN [MILLIMETERS]		
ADB	APPR.	WE CERTIFY TO THE BEST OF OUR KNOWLEDGE THIS DRAWING MEETS THE SPECIFICATIONS SET FORTH		
C	REV.	PREP. BY	B. HICKS	6-11-01
		CHKD. BY	K. ADKINS	6-14-01
		APPR. BY	R. DOELLING	6-15-01

TITLE
TENSION ACTING SOLID METAL
BURSTING DISC SAFETY DEVICES

P.O. # _____
S.O. # _____

SHEET
1 OF 1



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EC Type-Examination Module B <input checked="" type="checkbox"/>		EC Design-Examination Module B ₁ <input type="checkbox"/> , Module H ₁ <input type="checkbox"/>		Examination of Design Module G <input type="checkbox"/>	
Manufacturer:		Manufacturing plant:		For:	
Continental Disc Corporation 3160 W. Heartland Drive Liberty, MO 64068, USA		3160 W. Heartland Drive Liberty, MO 64068, USA			
Drawing	PEDTASOLID	Rev:	C	Category:	IV
Intended use:	Tension acting solid metal bursting disk safety devices				
Name / model	STD	FA			
Allowable range of operating pressure PS [bar]	0.2-5517	0.2-5517			
Min/Max. allowable Temperature TS [°C]					
Nominal Diameter [DN]	6 to 800	6 to 800			
Fluid/Fluid Group	Gas, liquid / 1	Gas, liquid / 1			
SPECIFICATIONS – DIRECTIVE 97/23/EC:					
1. Regulations/Codes:	AD 2000	TRD	ASME / ANSI B 31.B		
Applied in full	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Applied in part	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Parts applied:	AD 2000 Merkblatt A1				
2. Standards/other Specifications:	EN ISO 4126-2:2003				
Requirements: Directive 97/23/EC, Annex I, 2.11					
APPLICATION:					
Written declaration, that the application has not been lodged with any other notified body	<input checked="" type="checkbox"/>	Complete technical documentation (Paragraph 3 of the relevant module)	<input checked="" type="checkbox"/>	Drawing #, and Rev PEDTASOLID REV. C	<input checked="" type="checkbox"/>

Comments:

The stipulations of the test plan (# P-USA-10-05-003-003.) shall be fulfilled

The burst discs are manufactured without permanent joining processes.

The permanent joining procedures and the personnel involved with the manufacturing of the holders shall be approved by a notified body for the PED



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Drawing No.: PEDTASOLID		Rev.: C			
EXAMINATIONS AND RESULTING EVALUATIONS (CHECKLIST)		Acceptable	Not applicable	Remarks	
1.	Design Code / calculation method	X		EN ISO 4126-2:2003	
2.	Design for adequate strength <ul style="list-style-type: none"> • Internal/external pressure • Min/Max operational temperatures • Corrosion, erosion, wear, fatigue 	X X X		Compatibility with process operational conditions is the responsibility of the user	
3.	Suitability of materials for main pressure bearing parts <ul style="list-style-type: none"> • Particular material appraisal(s) PMA 		X	Compatibility with process fluids is to be determined in the responsibility of the user	
4.	Testing In compliance with the standard requirements	X		MP-7006 Rev. M MP-7003 Rev. H	
5.	Marking and labeling	X		Conformance with EN ISO 4126-2 MP-7007 Rev. M	
6.	Installation manuals	X		GEP 6001, 6050, 7003, 7010	

Manufacturing:

Manufacturing shall be performed in such a way, that the discs have uniform chemical and physical properties and shall be free from defects. If corrosion protection is applied, the corrosion protection shall not impair the performance of the bursting disc safety device.
The manufacturing facility and the manufacturing procedures shall be subject to surveillance by TÜV SÜD Industrie service GmbH.

Materials:

The selection of materials used for the bursting discs shall take into account the suitability with regard to manufacture and the compatibility with the process fluid and the operational chemical and physical conditions.

Material of the same specification coming from the same heat number and heat treatment batch with a specified thickness shall be defined as material lot.



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The materials listed in tables A1 and B1 of EN ISO 4126-2 and other materials*) can be selected for bursting discs and holders.

*) The suitability of a material for a specific application can be ensured by a particular material appraisal (PMA) by the notified body in charge.

Testing:

A quantity of bursting discs from the same type and size manufactured from the same material lot shall be defined as "batch".

Rupture disc burst testing shall be performed in conformance to CDC Procedure MP-7006, Rev M.

Tests previously performed:

DISC MODEL	Disc material	Lot/Batch No.	Ambient breaks [bar]	Breaks at temperature [°C]
3/4" LAMOT FA (UT)	316 ss Disc	8159829A	283, 279, 276, 283	
2" STD (FU)	Nickel Disc	8170452A	7.45, 7.31	
4" STD-V (FS)	Nickel Disc	8170764A	5.93, 5.93	

The tested burst discs comply with the drawing in essence.



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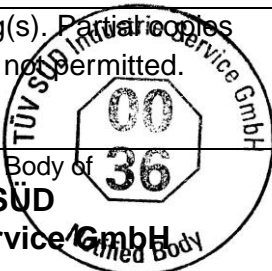

Marking:

The marking shall be performed in conformance to CDC Procedure MP-7007, Rev K and shall include the following:

- Manufacturers name or trade mark
- Model / type
- Nominal size (DN)
- Material identification
- Specified minimum and maximum burst pressure and temperature
- Performance tolerance
- Flow direction
- Standard if applicable
- Batch identification
- Reference to specified holder
- Year of manufacture



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Result:			
The above-mentioned examinations were performed in accordance with the provisions of the stated requirements/specifications. The requirements of the Directive 97/23/EC are met.			
Declaration of Conformity :	CE marked product shall be accompanied by a Declaration of Conformity in conformance to Appendix A of CDC Procedure MP-7007, Rev M		
Notes:	The examination results relate exclusively to the described drawing(s). Partial copies of this report without a written authorization by the notified body is not permitted.		
Location:	Palo Alto	Date:	December 23,2010
		 Inspection Body of TÜV SÜD Industrie Service GmbH Notified Body	
		 Dr. U. Rohlfs	
Attachments:	<ul style="list-style-type: none"> • Drawing PEDTASOLID REV. C • Sample declaration of conformity • GEP-6001 Rev. R, GEP- 6050 Rev. D, GEP-7003 Rev, K, Gep-7010 Rev, D • MP-7006 Rev M • MP-7007 Rev M • MP-1001 Rev. AF • MP-1009 Rev. E 		