

1. Manufactured and certified by Silvan Industries, 2121 Cleveland Avenue, Marinette, Wisconsin, 54143
(Name and address of Manufacturer)

2. Manufactured for Atlas Copco, Houston, Texas
(Name and address of Purchaser)

3. Location of Installation Unknown
(Name and address)

4. Type Vertical 713900 to 713901 W5230.2 137-858 R.E 713900-713901 2014
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Division 1 2013/ N/A N/A N/A
(Edition and Addenda, if applicable (date)) (Code Case numbers) (Special service per UG-120(d))

6. Shell: SA455 .375 in .062 in 3' 6" (OD) 5' 1.25"
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

Body Flanges on Shells												
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

7. Seams: Type 1 Full 100 N/A N/A Type 1 Full 100 1
(Long. (welded, dbl., sngl., lap, butt)) (R.T. (spot or full)) (Eff., %) (H.T. temp) (Time, hr) (Girth. (welded, dbl., sngl., lap, butt)) (R.T. (spot or full)) (Eff., %) (No. of courses)

8. Heads: (a) Material SA516 Gr70 (b) Material SA516 Gr70
(Spec. no., grade) (Spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	.365"	.062"	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	Bottom	.365"	.062"	N/A	N/A	2:1	N/A	N/A	N/A	Concave

Body Flanges on Heads												
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A

9. MAWP 165 psi N/A at max. temp. 482 °F N/A
(Internal) (External) (Internal) (External)

Min. design metal temp. -20 °F at 165 psi . Hydro, pneu., or comb. test pressure HYDRO at 222 psi .

Proof test N/A .

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet/Outlet	2	4"	Pipe/Flg	SA106 GrB	SA105	.337"/150#	.062"	Inherent	Weld	Weld	
Drain	1	6"	Pipe/Flg	SA106 GrB	SA105	.280"/150#	.062"	.25"/SA455	Weld	Weld	
Inlet/Outlet	1	6"	Pipe/Flg	SA106 GrB	SA105	.280"/150#	.062"	.25"/SA455	Weld	Weld	

Additional Nozzles - See Attached U-4...

11. Supports: Skirt No Lugs 0 Legs 3 Other Mounting Bracket/Pad Attached Head/Shell-Weld
(Yes or no) (Number) (Number) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors, have been furnished for the following items of the report:
N/A
(Name of part, item number, Manufacturer's name and identifying stamp)

Pressure Relief Valve Supplied by Other Than Mfr. "CONSTRUCTED UNDER THE PROVISIONS OF PAR.UG90(c)(2), UG20(f)". ASME Air Dryer.
CD Series Evaluated for Cyclic Loading 165 psi @ 8 Minutes per Cycle
Cycles). Pressure Differential: 0 psi Min. to 150 psi Max.; Temperat
Pressure Cycle from 0 psi to 150 psi @ 482°F for a Total of 657,000
Additional Remarks - See Attached U-4...

MEG ENERGY

1. Reviewed & Accepted. Manufacturing may proceed.

2. Reviewed & Accepted as marked. Revise & resubmit. Manufacturing may proceed.

3. Review as marked & re-submit. Manufacturing may not proceed.

4. Review not required. For information only. Manufacturing may proceed.

Date: 2017-10-26

Bob Rutberg for Abdo Al-Shareef

Print Name

Bob Rutberg

Signature

VP-CL03A-M-000-0045-R0 VR-00683 Page 1 of 6

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 16802
expires June 13, 2015.

Date 06/05/2014

Co. name

Silvan Industries

(Manufacturer)

Signed


(Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

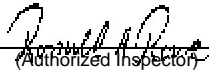
Vessel constructed by Silvan Industries at 2121 Cleveland Avenue, Marinette, Wisconsin, 54143

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by
OneCIS Insurance Company, of Lynn, MA

have inspected the component described in this Manufacturer's Data Report on June 5, 2014,
and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER
AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any
warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector
nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.

Date 06/05/2014

Signed


(Authorized Inspector)

Commissions

10105 A, WI100181

(National Board (incl. endorsements))

1. Manufactured and certified by Silvan Industries, 2121 Cleveland Avenue, Marinette, Wisconsin, 54143
(Name and address of Manufacturer)2. Manufactured for Atlas Copco, Houston, Texas

(Name and address of Purchaser)

3. Location of installation Unknown

(Name and address)

4. Type Vertical
(Horizontal, vertical, or sphere)N/A
(Tank, separator, heat exch., etc.)713900 to 713901
(Manufacturer's serial number)W5230.2
(CRN)137-858 R.E
(Drawing number)713900-713901
(National Board number)2014
(Year built)

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inspection	1	12" x 16"	Manway	SA106 GrC		.75"	.062"	Inherent	Weld	Weld	

Additional Remarks:

for 10 Years). CPN 1624 5091 86.Certificate of Authorization: Type "U"No. 16802Expires June 13, 2015Date 06/05/2014

Name

Silvan Industries
(Manufacturer)

Signed

(Representative)

Date 06/05/2014

Name

Russell A. Rowe
(Authorized Inspector)

Commissions:

10105 A, W100181

[National Board (incl. endorsements)]

P. O. Number

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by

Silvan Industries, 2121 Cleveland Avenue, Marinette, Wisconsin, 54143

(Name and address of Manufacturer)

2. Manufactured for

Atlas Copco, Houston, Texas

(Name and address of Purchaser)

3. Location of Installation

Unknown

(Name and address)

4. Type

Vertical

(Horizontal or vertical, tank)

713902 to 713903

(Manufacturer's serial number)

W5230.2

(CRN)

137-859 R.E

(Drawing number)

713902-713903

(National Board number)

2014

(Year built)

5. ASME Code, Section VIII, Division 1

2013/ N/A

(Edition and Addenda, if applicable (date))

N/A

(Code Case numbers)

N/A

(Special service per UG-120(d))

6. Shell:

SA455

(Material spec. number, grade)

.375 in

(Nominal thickness)

.062 in

(Corr. allow.)

3' 6" (OD)

(Inner diameter)

5' 1.25"

(Length (overall))

Body Flanges on Shells												
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

7. Seams:

Type 1

[Long. (welded, dbl., sngl., lap, butt)]

Full

[R.T.(spot or full)]

100

(Eff., %)

N/A

(H.T. temp)

N/A

(Time, hr)

Type 1

[Girth. (welded, dbl., sngl., lap, butt)]

Full

[R.T. (spot or full)]

100

(Eff. , %)

1

(No. of courses)

8. Heads: (a) Material

SA516 Gr70

(Spec. no., grade)

(b) Material

SA516 Gr70

(Spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	.365"	.062"	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	Bottom	.365"	.062"	N/A	N/A	2:1	N/A	N/A	N/A	Concave

Body Flanges on Heads												
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A

9. MAWP

165 psi

(Internal)

N/A

(External)

 at max. temp.

482 °F

(Internal)

N/A

(External)

Min. design metal temp.

-20 °F

 at

165 psi

 . Hydro, pneu., or comb. test pressure

HYDRO at 222 psi

 .

Proof test

N/A

 .

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet/Outlet	1	4"	Pipe/Flg	SA106 GrB	SA105	.337"/150#	.062"	Inherent	Weld	Weld	
Drain	1	6"	Pipe/Flg	SA106 GrB	SA105	.280"/150#	.062"	.25"/SA455	Weld	Weld	
Inlet/Outlet	1	6"	Pipe/Flg	SA106 GrB	SA105	.280"/150#	.062"	.25"/SA455	Weld	Weld	

Additional Nozzles - See Attached U-4...

11. Supports: Skirt

No

(Yes or no)

 Lugs

0

(Number)

 Legs

3

(Number)

 Other

Mounting Bracket/Pad

(Describe)

 Attached

Head/Shell-Weld

(Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors, have been furnished for the following items of the report:

N/A

(Name of part, item number, Manufacturer's name and identifying stamp)

Pressure Relief Valve Supplied by Other Than Mfgr. "CONSTRUCTED UNDER THE PROVISIONS OF PAR.UG90(c)(2), UG20(f)". ASME Air Dryer.
CD Series Evaluated for Cyclic Loading 165 psi @ 8 Minutes per Cycle for 10 Years (657,000 Cycles). Pressure Differential: 0 psi Min. to 150 psi Max.; Temperature Differential 0°F.
Pressure Cycle from 0 psi to 150 psi @ 482°F for a Total of 657,000 Cycles (8 Minutes per Cycle
Additional Remarks - See Attached U-4...

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 16802 expires June 13, 2015.

Date 06/11/2014

Co. name

Silvan Industries

(Manufacturer)

Signed


(Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Silvan Industries at 2121 Cleveland Avenue, Marinette, Wisconsin, 54143

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by

OneCIS Insurance Company, of Lynn, MAhave inspected the component described in this Manufacturer's Data Report on June 11, 2014,

and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 06/11/2014

Signed


(Authorized Inspector)

Commissions

10105 A, WI100181

[National Board (incl. endorsements)]

1. Manufactured and certified by Silvan Industries, 2121 Cleveland Avenue, Marinette, Wisconsin, 54143
(Name and address of Manufacturer)2. Manufactured for Atlas Copco, Houston, Texas

(Name and address of Purchaser)

3. Location of installation Unknown

(Name and address)

4. Type Vertical
(Horizontal, vertical, or sphere)N/A
(Tank, separator, heat exch., etc.)713902 to 713903
(Manufacturer's serial number)W5230.2
(CRN)137-859 R.E
(Drawing number)713902-713903
(National Board number)2014
(Year built)

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inspection	1	12" x 16"	Manway	SA106 GrC		.75"	.062"	Inherent	Weld	Weld	Shell

Additional Remarks:

for 10 Years).
For CRN Reference 137-858.
CPN 1624 5091 87.

Certificate of Authorization: Type "U" No. 16802Expires June 13, 2015Date 06/11/2014 Name Silvan Industries
(Manufacturer)Signed Am C. Wolfe
(Representative)Date 06/11/2014 Name Russell A. Rowe
(Authorized Inspector)Commissions: 10105 A, WI100181
[National Board (incl. endorsements)]



**GROUP
COEK**

Design and fabrication of
process equipment

COVALIM N.V.

Vaartstraat 27
B-3600 Genk

Tel.: +32 (0) 89/35.81.33
Fax: +32 (0) 89/35.81.43
Email: covalim@covalim.be
Internet: www.covalim.be

Page 1/2

EC DECLARATION OF CONFORMITY

Issued in accordance with the

PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC

**Covalim N.V.
Vaartstraat 27
B-3600 Genk
Belgium**

We hereby declare that in compliance with the above Directive, that the product(s) detailed below have been manufactured in accordance with conformity assessment module H as approved by Lloyds Register Verification Ltd, registered office: 71 Fenchurch Street, London EC3M 4BS, England (NoBo 0038)

Product Description	F 1400
Product Reference	Filter
Comprising	Air
Serial number	FN3P130108 to FN3P130127
Applicable Standards	ASME VIII, div. 1
Other applicable Directive	N/A
	Edition 2010 Addenda 2011

Signed :

Name : **G. FRANSSEN**

Position : **Quality Control - Covalim**

Date : **August 14, 2013**

GB INSTRUCTIONS FOR USE OF VESSEL

1. This vessel shall only be used as part of a compressed air receiver and operated within the specified limits.
2. National legislation requirements with respect to re-inspection must be complied with.
3. No alterations shall be made to the vessel without the written authority of the manufacturer.
4. As the cooler is part of an assembly built by Atlas Copco Airpower, Atlas Copco Airpower is responsible for the instructions for use of the assembly.
5. A safety valve is not installed by Covalim N.V., the installation will be done by Atlas Copco Airpower.

NL GEbruIKSAANWIJZING VAN DRUKVAT

1. Dit apparaat wordt enkel gebruikt als onderdeel van een drukvat en het gebruik is gebonden aan specifieke limieten.
2. Voor de her-inspectie moet voldaan worden aan de nationale wettelijke eisen.
3. Aan dit apparaat mogen geen veranderingen doorgevoerd worden zonder schriftelijke toestemming van de fabrikant.
4. Omdat de cooler onderdeel is van een assemblage, gebouwd door Atlas Copco Airpower, is Atlas Copco Airpower verantwoordelijk voor de gebruiksaanwijzing van de assemblage.
5. Covalim N.V. heeft geen veiligheidsklep geïnstalleerd. Dit gebeurt door Atlas Copco Airpower.

D GEBRAUCHSANWEISSUNG FÜR BEHALTER

1. Dieser Apparat wird nur als Unterteil eines Druckfasses gebraucht und der Gebrauch ist an spezifische Limiten verbunden.
2. Für die Wiederinspektion muss an nationale gesetzliche Forderungen Folge geleistet werden.
3. Ohne schriftliche Genehmigung vom Hersteller darf man an dem Apparat keine Änderungen durchführen.
4. Weil der cooler Unterteil einer Zusammensetzung gebaut von Atlas Copco Airpower ist, ist Atlas Copco Airpower verantwortlich für die Gebrauchsanweisung der Zusammensetzung.
5. Covalim N.V. hat das Sicherheitsventil nicht installiert. Dies wird durch Atlas Copco Airpower gemacht.

F MODE D'EMPLOI DU RESERVOIR

1. L'appareil ne peut qu'être utilisé comme partie d'un appareil à pression et l'emploi est lié à des limites spécifiques.
2. Pour la réinspection on doit satisfaire à toutes les demandes nationales et légales.
3. On ne peut pas faire de changement à l'appareil sans consentement écrit du fabricant.
4. Parce que le cooler est une partie d'un assemblage, fabriqué par Atlas Copco Airpower, Atlas Copco Airpower est responsable pour la mode d'emploi de l'assemblage.
5. Covalim N.V. n'a pas installé de soupape de sûreté. Ca ce fait par Atlas Copco Airpower.

Design Data :

* Name	Filter vessel	
* Drawing Number	CO-10070-03-00 Rev. 3	
* Volume	85	Litres
* MDMT	-10	°C
* Design Temperature	120	°C
* Design Pressure	1,6	MPa

Eng. Geert FRANSSEN
QUALITY CONTROL
 August 14, 2013



**GROUP
COEK**

COVALIM N.V.

covalim@covalim.be
www.covalim.be

Design and fabrication of
process equipment

HYDROSTATIC TEST REPORT

Date :	August 14, 2013	Report No:	H-FN3P130108 Rev. 0
Location :	Genk	Equipment:	Filter F 1400
		Serial Number:	FN3P130108 to FN3P130127
		Inspection Procedure:	TEST-15

DATA OF INSPECTED ELEMENTS

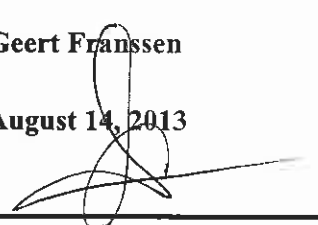
DESCRIPTION : The vessel is tested in horizontal position and filled with water.

The test gages are calibrated according to KAL 15

TEST PRESSURE : 22,9 BAR - 2,29 MPa

TEST TIME : 10 minutes

TEST RESULTS: Satisfactory. No leakage. No distortions.

QC Inspector :	Geert Franssen	Authorized Inspector :	
Date :	August 14, 2013	Date :	
Signature:		Signature:	

FORM U-3 MANUFACTURER'S CERTIFICATE OF COMPLIANCE
COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM SYMBOL [SEE U-1(j)]
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by COVALIM N.V. VAARTSTRAAT 27, 3600 GENK, BELGIUM
(Name and address of Manufacturer)

2. Manufactured for N.V. ATLAS COPCO AIRPOWER S.A., BOOMSESTEENWEG 957, 2610 WILRIJK, BELGIUM
(Name and address of Purchaser)

3. Location of Installation UNKNOWN
(Name and address)

4. Type Vertical Filter F 1400 85 litres FN3P130108 to FN3P130127
(Horizontal, vertical, or sphere) (Tank, separator, etc.) (Capacity) (Manufacturer's serial number)

- CO-10070-03-00 Rev. 3 N.A. 2013
(CRN) (Drawing number) (National Board Number) (Year built)

5. ASME Code, Section VIII, Div. 1 Edition 2010 Addenda 2011 N.A.
(Edition and Addenda, if applicable (date)) (Code Case number)

6. Shell: (a) Number of course(s) 1 (b) Overall length 1012 mm

Course(s)			Material		Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, and C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	323,9 mm	1012 mm	SA-106 Gr B		7,11 mm	0,5 mm	N.A.	N.A.	N.A.	2	None	65	N.A.	N.A.

7. Heads: (a) SA-516 Gr 60 (Material spec. number, grade or type) (H.T. - time and temp.)										(b) SA-105 (Material spec. number, grade or type) (H.T. - time and temp.)				
Location (Top, Bottom, Ends)		Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a) Top		5 mm	0,5 mm	323,9 mm	33 mm	N.A.	N.A.	N.A.	N.A.	-	YES	N.A.	N.A.	N.A.
(b) Bottom		31,7 mm	0,5 mm	N.A.	N.A.	N.A.	N.A.	N.A.	323,9 mm	N.A.	N.A.	N.A.	N.A.	N.A.

If removable, bolts used (describe other fastening) SA-193 B7 Studbolts 7/8" UNC x 135 (12x) // SA-194 2H Nuts
(Material spec. number, grade, size, number)

8. Type of jacket N.A. Jacket closure N.A.
(Describe as open & weld, bar, etc.)

If bar, give dimensions; if bolted, describe or sketch N.A.

9. MAWP 1,6 Mpa - at max. temp. 120 °C - Min. design metal temp. -10 °C at 1,6 Mpa
(Internal) (External) (Internal) (External)

10. Impact test No impact test required as per UG-20(f) at test temperature of N.A.
(Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test pressure 2,29 Mpa Proof test N.A.

12. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet	1	6"	RFWN	SA-106 Gr B	SA-105	7,11 mm	0,5 mm	N.A.	Uw16.1(c)	TYPE 1	-
Outlet	1	6"	RFWN	SA-106 Gr B	SA-105	7,11 mm	0,5 mm	N.A.	Uw16.1(c)	TYPE 1	-

13. Supports: Skirt NO Lugs 1 Legs N.A. Others N.A. Attached Welded at TOP
(Yes or no) (No.) (No.) (Describe) (Where and how)

14. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name and identifying number):
N.A.

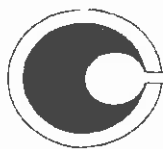
15. Remarks Compliance with UG-125 is user's responsibility.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.

UM Certificate of Authorization Number 33.483 Expires July 25, 2014
Date August 14, 2013 Name COVALIM N.V. Signed G. FRANSSEN
(Manufacturer) (Representative)

Signed G. FRANSSEN
(Certified individual)



**GROUP
COEK**

Design and fabrication
of process equipment

COVALIM N.V.

Vaartstraat 27
B - 3600 GENK

Tel.: (32) 89/35.81.33
Fax: (32) 89/35.81.43
Email: covalim@covalim.be
Internet: www.covalim.be

Ref.nr.COVALIM: MAN-10070

AUTHOR: B. Van der Elst

PAGE: 1

CLIENT: Atlas Copco airpower

JOB:

TYPE OF DOCUMENT: User Manual filters

CONCERNING: 550 - 850 - 1100 - 1400 - 1800 - 2200 - 3000 - 4000 - 5000

ANNEX:

Reviewed 05 October 2012

Lloyd's Register EM/SA
Antwerp Office

Heer Wijnien

Lloyd's
Register

0	10/08/2012	for prod.	B. Van der Elst		Vincent Bossuyt		
REV.	DATE	STATUTE	NAME	PAR.	NAME	PAR.	NR. OF PAGES
			PROJECT ENGINEER		HEAD OF ENGINEERING		



COVALIM N.V.

Design and fabrication of
process equipment

**GROUP
COEK**

Vaartstraat 27
B-3600 Genk

Tel.: (32) 89/35.81.33

Fax: (32) 89/35.81.43

Email: covalim@covalim.be

Internet: www.covalim.be

PRESSURE EQUIPMENT DIRECTIVE 97/23/EC

User Manual filters TYPE 550 – 850 – 1100 – 1400 – 1800 – 2200 – 3000 – 4000 – 5000

1. Mounting including assembling of different pieces of pressure equipment.

The Filters are delivered by Coek to Atlas who is using them in their assemblies or delivering them as unit to their customers. Atlas Copco Airpower (AC) is responsible for the instructions for use of filter. More detailed information can be found in:

- Technical documentation of Filters
- Risk analysis

2. Putting into service, use.

The flange connections of filter are bolted ready for operation. The end assembly to be done by Atlas Copco (safety valves, PLC-control etc) shall have the necessary checks done by Atlas Copco before putting into service. The instructions for use given to the customer shall be made by Atlas Copco. This vessel shall only be used as per procedures of Atlas and operated within the limits specified in the technical documentation.

Atlas Copco has to take actions regarding the risks mentioned in the risk analysis where the column Risk estimation by is filled in with AC (see Risk analysis) . The necessary actions are listed in the other columns. Some examples are:

- To guaranty that design pressure will not be exceeded AC will install pressure valves and write procedures for end user.
- External fire: temperature probes, sprinklers procedures etc to be done by AC if necessary.
- Earthquake loading of country where dryer is installed shall be checked by AC.
- Moments and forces on nozzle connections shall be checked by AC
- Procedures for periodic shell thickness measurements shall be made by AC or end user (corrosion ,erosion)
- Danger on personal injury due to misuse of equipment will be covered by an end user manual made by AC. This user manual can be part of this document.

For complete list see risk analysis.

3. National legislation requirements with respect to re-inspection must be complied with .

4. No alteration shall be made to the vessel without the written authority of the manufacturer.

5. Safety devices and user manual for end customer for complete assembly are not supplied by Covalim N.V.

6.. Maintenance.

Maintenance manual will be made by AC. Points like periodic check of wall thickness, Check of flange connections, bolt moments, pipe connections shall be included .

COVALIM N.V.

GROUP COEK

Design and fabrication
of process equipment

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Ref.nr.COVALIM: HAZ-10070

AUTHOR: B. Van der Elst

PAGE: 1

CLIENT: Atlas Copco airpower

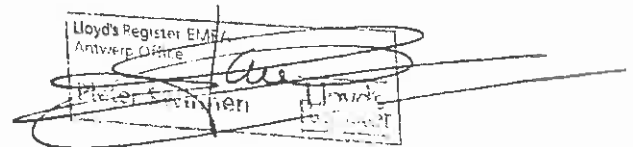
JOB:

TYPE OF DOCUMENT: Risk Analysis

CONCERNING: 550 - 850 - 1100 - 1400 - 1800 - 2200 - 3000 - 4000 - 5000

ANNEX:

Reviewed 05 October 2012



0	10/08/2012	for. prod.	B. Van der Elst		Vincent Bossuyt		
REV.	DATE	STATUTE	NAME	PAR.	NAME	PAR.	NR. OF PAGES
			PROJECT ENGINEER		HEAD OF ENGINEERING		

Risk analysis

Boundaries of the installation (risk analysis) against the proper (legal) background

reference Filters

revision

Manufacturer

Signature

0 DATE 10/08/2012

Coek Engineering N.V.

No	Type of Hazard	Relevant Y/N	Risk Estimation by	Description of hazard	Risk No.	Action Required Y/N	If applicable :risk reduction by Design Construction	Use Additional precaution Warning	Explication Action number
1	Internal pressure								
	-normal operating conditions	Y	M	Over tensioning material	A	N	Stress calculation	NI	NI
	-regeneration conditions	NI							
	-thermal liquid expansion	NI							
	-exothermal reactions/run away	NI							
2	External pressure								
	-vacuum	NI							
	-normal operating conditions	NI							
	-regeneration conditions	NI							
	-condensing steam vapour	NI							
	due to cooling down								
3	Ambient temperature	Y	M	Low Ambient temperature	A	N	Stress calculation PED-10070-filters	NI	NI
4	Design temperature								
	-normal operating conditions	Y	M	Overlensing material	A	N	Stress calculation	NI	AC
	-margin between operating and design temperature	NI							
	-regeneration conditions	NI							
	-exothermal reactions	NI							
	-to small response time of temperature sensors	NI							
5	Temperature changes								
	temperature gradient	NI							
6	Creep								
7	External fire (pool, jet)	Y	AC	High wall temperature with leakage , overlensing materials	A	Y (AC)	AC	AC	AC
8	Static head of the content under operating and test conditions	NA	NA	NA	NA	NA	NA	NA	NA
9	Dynamic liquid pressure (waterhammer)	NI							
	-Condensation of gaseous fluids	NI							

No	Type of Hazard	Relevant Y/N	Risk Estimation by	Description of hazard	Risk No.	Action Required Y/N	If applicable :risk reduction by Design Construction	Reduction	Use Additional precaution Warning	Explication Action number
10	Mass of content under operating and test conditions	NI								
11	Traffic loadings/geotechnical loadings (underground pressure equipment)	NI								
12	Windloading									
13	Snow and ice loads									
	-Mounting outside NI									
	-location outside NI									
	- due to process									
14	Earthquake loading	Y	AC	Overstressing	A	Y (AC)	AC	AC	AC	AC
15	Forces and moments from supporting structures	Y	AC	Overstressing	A	Y (AC)	AC	AC	AC	AC
16	Forces and moments from piping connections (nozzle loads)	Y	AC	Overstressing	A	Y (AC)	AC	AC	AC	NI
17	Corrosion									
	-Internal Y		M/AC	Leak due to corrosion	A	Y (AC)	corrosion 0.5 mm	NI	periodic check thicknesses AC, and Client	
	-External Y		M/AC	Leak due to corrosion	A	Y (AC)	corrosion 0.5 mm	Painting	periodic check thicknesses AC, and Client	
	-Condensation in piping for gases NI fluids									
18	Chemical attack of the materials by the process fluid	NI								
19	Erosion/wear									
	-pipelines Y		AC	Leakage	A	Y (AC)	NI	NI	Visual Inspection	NI
	(high velocity of fluids, turbulence, vortices)									
	-solids (e.g. coal) Y		AC	Leakage	A	Y (AC)	NI	NI	Visual Inspection	NI
20	Fatigue									
	Pressure fluctuations (range)	NI								
	-vibration of pipelines	NI								
	-mixtures	NI								
	-pumps	NI								
21	Excessive loadings due to excessive free movement pipelines	Y	AC	Overstressing material	A	Y (AC)	Stress calculation	Procedures AC	Visual Inspection	NI
22	Excessive forces/moment on flanges;connections;bellows;hoses (pipelines)	Y	AC	Overstressing material	A	Y (AC)	AC	AC	AC	NI
23	Decomposition of unstable fluids	NI								
24	Consequences due to deposits	NI								
	-loss of fluid (level)									
	-corrosion									
	-overheating									
25	Unstability during transport or movement	Y	AC	Damage due to transport-A tailon forces	A	Y	AC special crates	AC	AC	NA

No	Type of Hazard	Relevant Y/N	Risk Estimation by	Description of hazard	Risk No.	Action Required Y/N	If applicable :risk reduction by Design	Reduction	Use	Additional precaution	Warning	Explication Action number
26	Danger due to internal pressure in relation to opening and closing of the pressure equipment	Y	M/AC	Personal injury by opening vessel	A	Y(AC)	NI	NI	Procedures	AC	NI	
27	Danger due to type of fluid in relation to opening and closing of the pressure equipment	Y	M/AC	Personal injury by opening vessel	A	Y(AC)	normal flange connection acc code	NI	Procedures	AC	NI	
28	Surface temperature , related to the intended use	Y	AC	Personal injury burns	A	Y(AC)	NI	End assembly	Procedures	AC	NI	
29	Adversely effects of opening for inspection	NI										
30	Uncontrolled chemical reactions due to insufficient ventilation	NI										
31	Danger related to cleaning , inspecting and maintenance -ventilation -product remains	Y	AC	Personal injury	A	Y(AC)	NI	AC	procedures	AC		
32	Overfilling	NI										
33	Overpressure due to overfilling (Filling ratio and vapour pressure at reference temperature)	NI										
34	Instability of the pressure equipment during filling and emptying	NI										
35	Uncontrolled release of the pressurized fluid	Y	AC	Personal and environ- mental damage	A	Y(AC)	NI	NI	Over pressure valves by AC	NI		
36	Unsafe connection and disconnection	Y	AC	Personal injuries	A	Y(AC)	NI	NI	Procedures AC and assembly	NI		
37	Dangerous accumulation of ignitable mixtures of combustible substances and air (boilers)	Y	AC	Explosion Personal injury	A	Y(AC)	NI	NI	Procedures	NI		
38	Flame blowback (boilers)	NI										
39	Discharge of static electricity	Y	AC	Ignition, explosion and fire	A	Y(AC)	NI	Earthing lug	Procedures	NI		
40	Danger due to release of fluids (location and type of fluids): - safety devices -leakages -flange gasket device -gasket -due to forces and moments on flange connections	Y	AC	Emission by leakage of hot air leakage by using wrong gaskets and wrong torque	A	Y(AC)	AC	AC	Procedures AC	AC		
41	Consequences of dropping the pressure vessel (related to the intended use)	Y	AC	damage on installation due to handling	A	Y(AC)	special cranes for transport	NI	Procedures	AC	NI	

[illegible]



**GROUP
COEK**

Design and fabrication of
process equipment

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Page 1/2

EC DECLARATION OF CONFORMITY

Issued in accordance with the

PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC

Covalim N.V.
Vaartstraat 27
B-3600 Genk
Belgium

We hereby declare that in compliance with the above Directive, that the product(s) detailed below have been manufactured in accordance with conformity assessment module H as approved by Lloyds Register Verification Ltd, registered office: 71 Fenchurch Street, London EC3M 4BS, England (NoBo 0038)

Product Description	F 1400
Product Reference	Filter
Comprising	Air
Serial number	FN3P130108 to FN3P130127
Applicable Standards	ASME VIII, div. 1 Edition 2010 Addenda 2011
Other applicable Directive	N/A

Signed :

Name : **G. FRANSSEN**

Position : **Quality Control - Covalim**

Date : **August 14, 2013**

GB INSTRUCTIONS FOR USE OF VESSEL

1. This vessel shall only be used as part of a compressed air receiver and operated within the specified limits.
2. National legislation requirements with respect to re-inspection must be complied with.
3. No alterations shall be made to the vessel without the written authority of the manufacturer.
4. As the cooler is part of an assembly built by Atlas Copco Airpower, Atlas Copco Airpower is responsible for the instructions for use of the assembly.
5. A safety valve is not installed by Covalim N.V., the installation will be done by Atlas Copco Airpower.

NL GEBRUIKSAANWIJZING VAN DRUKVAT

1. Dit apparaat wordt enkel gebruikt als onderdeel van een drukvat en het gebruik is gebonden aan specifieke limieten.
2. Voor de her-inspectie moet voldaan worden aan de nationale wettelijke eisen.
3. Aan dit apparaat mogen geen veranderingen doorgevoerd worden zonder schriftelijke toestemming van de fabrikant.
4. Omdat de cooler onderdeel is van een assemblage, gebouwd door Atlas Copco Airpower, is Atlas Copco Airpower verantwoordelijk voor de gebruiksaanwijzing van de assemblage.
5. Covalim N.V. heeft geen veiligheidsklep geïnstalleerd. Dit gebeurt door Atlas Copco Airpower.

D GEBRAUCHSANWEISUNG FÜR BEHALTER

1. Dieser Apparat wird nur als Unterteil eines Druckfasses gebraucht und der Gebrauch ist an spezifische Limiten verbunden.
2. Für die Wiederinspektion muss an nationale gesetzliche Forderungen Folge geleistet werden.
3. Ohne schriftliche Genehmigung vom Hersteller darf man an dem Apparat keine Änderungen durchführen.
4. Weil der cooler Unterteil eines Zusammensetzung gebaut von Atlas Copco Airpower ist, ist Atlas Copco Airpower verantwortlich für die Gebrauchsanweisung des Zusammensetzung.
5. Covalim N.V. hat das Sicherheitsventil nicht installiert. Dies wird durch Atlas Copco Airpower gemacht.

F MODE D'EMPLOI DU RESERVOIR

1. L'appareil ne peut qu'être utilisé comme partie d'un appareil à pression et l'emploi est lié à des limites spécifiques.
2. Pour la réinspection on doit satisfaire à toutes les demandes nationales et légales.
3. On ne peut pas faire de changement à l'appareil sans consentement écrit du fabricant.
4. Parce que le cooler est une partie d'un assemblage, fabriqué par Atlas Copco Airpower, Atlas Copco Airpower est responsable pour la mode d'emploi de l'assemblage.
5. Covalim N.V. n'a pas installé de soupape de sûreté. Ca ce fait par Atlas Copco Airpower.

Design Data :

* Name	Filter vessel	
* Drawing Number	CO-10070-03-00 Rev. 3	
* Volume	85	Litres
* MDMT	-10	°C
* Design Temperature	120	°C
* Design Pressure	1,6	MPa

Eng. Geert FRANSSEN
QUALITY CONTROL
 August 14, 2013



**GROUP
COEK**

COVALIM N.V.

covalim@covalim.be
www.covalim.be

Design and fabrication of
process equipment

HYDROSTATIC TEST REPORT

Date :	August 14, 2013	Report No:	H-FN3P130108 Rev. 0
Location :	Genk	Equipment:	Filter F 1400
		Serial Number:	FN3P130108 to FN3P130127
		Inspection Procedure:	TEST-15

DATA OF INSPECTED ELEMENTS

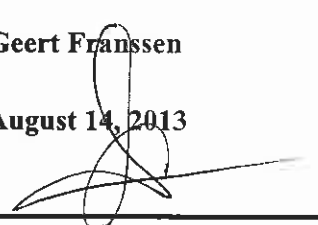
DESCRIPTION : The vessel is tested in horizontal position and filled with water.

The test gages are calibrated according to KAL 15

TEST PRESSURE : 22,9 BAR - 2,29 MPa

TEST TIME : 10 minutes

TEST RESULTS: Satisfactory. No leakage. No distortions.

QC Inspector :	Geert Franssen	Authorized Inspector :	
Date :	August 14, 2013	Date :	
Signature:		Signature:	

FORM U-3 MANUFACTURER'S CERTIFICATE OF COMPLIANCE
COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM SYMBOL [SEE U-1(j)]
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by COVALIM N.V. VAARTSTRAAT 27, 3600 GENK, BELGIUM
(Name and address of Manufacturer)

2. Manufactured for N.V. ATLAS COPCO AIRPOWER S.A., BOOMSESTEENWEG 957, 2610 WILRIJK, BELGIUM
(Name and address of Purchaser)

3. Location of Installation UNKNOWN
(Name and address)

4. Type Vertical Filter F 1400 85 litres FN3P130108 to FN3P130127
(Horizontal, vertical, or sphere) (Tank, separator, etc.) (Capacity) (Manufacturer's serial number)

- CO-10070-03-00 Rev. 3 N.A. 2013
(CRN) (Drawing number) (National Board Number) (Year built)

5. ASME Code, Section VIII, Div. 1 Edition 2010 Addenda 2011 N.A.
(Edition and Addenda, if applicable (date)) (Code Case number)

6. Shell: (a) Number of course(s) 1 (b) Overall length 1012 mm

Course(s)			Material		Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, and C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	323,9 mm	1012 mm	SA-106 Gr B		7,11 mm	0,5 mm	N.A.	N.A.	N.A.	2	None	65	N.A.	N.A.

7. Heads: (a) SA-516 Gr 60 (Material spec. number, grade or type) (H.T. - time and temp.)										(b) SA-105 (Material spec. number, grade or type) (H.T. - time and temp.)				
Location (Top, Bottom, Ends)		Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a) Top		5 mm	0,5 mm	323,9 mm	33 mm	N.A.	N.A.	N.A.	N.A.	-	YES	N.A.	N.A.	N.A.
(b) Bottom		31,7 mm	0,5 mm	N.A.	N.A.	N.A.	N.A.	N.A.	323,9 mm	N.A.	N.A.	N.A.	N.A.	N.A.

If removable, bolts used (describe other fastening) SA-193 B7 Studbolts 7/8" UNC x 135 (12x) // SA-194 2H Nuts
(Material spec. number, grade, size, number)

8. Type of jacket N.A. Jacket closure N.A.
(Describe as open & weld, bar, etc.)

If bar, give dimensions; if bolted, describe or sketch N.A.

9. MAWP 1,6 Mpa - at max. temp. 120 °C - Min. design metal temp. -10 °C at 1,6 Mpa
(Internal) (External) (Internal) (External)

10. Impact test No impact test required as per UG-20(f) at test temperature of N.A.
(Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test pressure 2,29 Mpa Proof test N.A.

12. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet	1	6"	RFWN	SA-106 Gr B	SA-105	7,11 mm	0,5 mm	N.A.	Uw16.1(c)	TYPE 1	-
Outlet	1	6"	RFWN	SA-106 Gr B	SA-105	7,11 mm	0,5 mm	N.A.	Uw16.1(c)	TYPE 1	-

13. Supports: Skirt NO Lugs 1 Legs N.A. Others N.A. Attached Welded at TOP
(Yes or no) (No.) (No.) (Describe) (Where and how)

14. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name and identifying number):
N.A.

15. Remarks Compliance with UG-125 is user's responsibility.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.

UM Certificate of Authorization Number 33.483 Expires July 25, 2014
Date August 14, 2013 Name COVALIM N.V. Signed G. FRANSSEN
(Manufacturer) (Representative)

Signed G. FRANSSEN
(Certified individual)



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Ref.nr.COVALIM: MAN-10070

AUTHOR: B. Van der Elst

PAGE: 1

CLIENT: Atlas Copco airpower

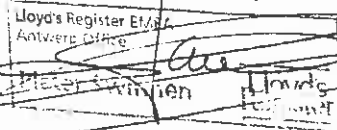
JOB:

TYPE OF DOCUMENT: User Manual filters

CONCERNING: 550 - 850 - 1100 - 1400 - 1800 - 2200 - 3000 - 4000 - 5000

ANNEX:

Reviewed 05 October 2012



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User Manual filters TYPE 550 – 850 – 1100 – 1400 – 1800 – 2200 – 3000 – 4000 – 5000

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AUTHOR: B. Van der Elst

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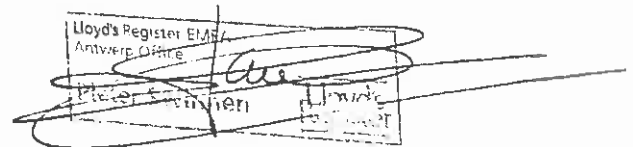
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CONCERNING: 550 - 850 - 1100 - 1400 - 1800 - 2200 - 3000 - 4000 - 5000

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Reviewed 05 October 2012



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Boundaries of the installation (risk analysis) against the proper (legal) background

reference Filters

revision

Manufacturer

Signature

0 DATE 10/08/2012

Coek Engineering N.V.

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	-exothermal reactions/run away NI								
2	External pressure								
	-vacuum NI								
	-normal operating conditions NI								
	-regeneration conditions NI								
	-condensing steam vapour NI								
	due to cooling down								
3	Ambient temperature	Y	M	Low Ambient temperature	A	N	Stress calculation PED-10070-filters	NI	NI
4	Design temperature								
	-normal operating conditions Y	M		Overlensing material	A	N	Stress calculation	NI	AC
	-margin between operating and design temperature NI								
	-regeneration conditions NI								
	-exothermal reactions NI								
	-to small response time of temperature sensors								
5	Temperature changes								
	temperature gradient NI								
6	Creep	NI							
7	External fire (pool, jet)	Y	AC	High wall temperature with leakage , overlensing materials	A	Y (AC)	AC	AC	AC
8	Static head of the content under operating and test conditions	NA	NA	NA	NA	NA	NA	NA	NA
9	Dynamic liquid pressure (waterhammer)	NI							
	-Condensation of gaseous fluids	NI							

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11	Traffic loadings/geotechnical loadings (underground pressure equipment)	NI								
12	Windloading									
13	Snow and ice loads									
	-Mounting outside NI									
	-location outside NI									
	- due to process									
14	Earthquake loading	Y	AC	Overtressing	A	Y (AC)	AC	AC	AC	AC
15	Forces and moments from supporting structures	Y	AC	Overtressing	A	Y (AC)	AC	AC	AC	AC
16	Forces and moments from piping connections (nozzle loads)	Y	AC	Overtressing	A	Y (AC)	AC	AC	AC	NI
17	Corrosion									
	-Internal Y		M/AC	Leak due to corrosion	A	Y (AC)	corrosion 0.5 mm	NI	periodic check thicknesses AC, and Client	
	-External Y		M/AC	Leak due to corrosion	A	Y (AC)	corrosion 0.5 mm	Painting	periodic check thicknesses AC, and Client	
	-Condensation in piping for gases NI fluids									
18	Chemical attack of the materials by the proces fluid	NI								
19	Erosion/wear									
	-pipelines Y		AC	Leakage	A	Y (AC)	NI	NI	Visual Inspection	NI
	(high velocity of fluids, turbulence, vortices)									
	-solids (e.g. coal) Y		AC	Leakage	A	Y (AC)	NI	NI	Visual Inspection	NI
20	Fatigue									
	Pressure fluctuations (range)	NI								
	-vibration of pipelines	NI								
	-mixtures	NI								
	-pumps	NI								
21	Excessive loadings due to excessive free movement pipelines	Y	AC	Overtressing material	A	Y (AC)	Stress calculation	Procedures AC	Visual Inspection	NI
22	Excessive forces/moment on flanges;connections;bellows;hoses (pipelines)	Y	AC	Overtressing material	A	Y (AC)	AC	AC	AC	NI
23	Decomposition of unstable fluids	NI								
24	Consequences due to deposits	NI								
	-loss of fluid (level)									
	-corrosion									
	-overheating									
25	Unstability during transport or movement	Y	AC	Damage due to transport-A tailon forces	A	Y	AC special crates	AC	AC	NA

No	Type of Hazard	Relevant Y/N	Risk Estimation by	Description of hazard	Risk No.	Action Required Y/N	If applicable :risk reduction by Design	Reduction	Use	Additional precaution	Warning	Explication Action number
26	Danger due to internal pressure in relation to opening and closing of the pressure equipment	Y	M/AC	Personal injury by opening vessel	A	Y(AC)	NI	NI	Procedures	AC	NI	
27	Danger due to type of fluid in relation to opening and closing of the pressure equipment	Y	M/AC	Personal injury by opening vessel	A	Y(AC)	normal flange connection acc code	NI	Procedures	AC	NI	
28	Surface temperature , related to the intended use	Y	AC	Personal injury burns	A	Y(AC)	NI	End assembly	Procedures	AC	NI	
29	Adversely effects of opening for inspection	NI										
30	Uncontrolled chemical reactions due to insufficient ventilation	NI										
31	Danger related to cleaning , inspecting and maintenance -ventilation -product remains	Y	AC	Personal injury	A	Y(AC)	NI	AC	procedures	AC		
32	Overfilling	NI										
33	Overpressure due to overfilling (Filling ratio and vapour pressure at reference temperature)	NI										
34	Instability of the pressure equipment during filling and emptying	NI										
35	Uncontrolled release of the pressurized fluid	Y	AC	Personal and environ- mental damage	A	Y(AC)	NI	NI	Over pressure valves by AC	NI		
36	Unsafe connection and disconnection	Y	AC	Personal injuries	A	Y(AC)	NI	NI	Procedures AC and assembly	NI		
37	Dangerous accumulation of ignitable mixtures of combustible substances and air (boilers)	Y	AC	Explosion Personal injury	A	Y(AC)	NI	NI	Procedures	NI		
38	Flame blowback (boilers)	NI										
39	Discharge of static electricity	Y	AC	Ignition,explosion and fire	A	Y(AC)	NI	Earthing lug	Procedures	NI		
40	Danger due to release of fluids (location and type of fluids): - safety devices -leakage -flange gasket device -gasket -due to forces and moments on flange connections	Y	AC	Emmision by leakage of hot air leakage by using wrong gaskets and wrong torqing	A	Y(AC)	AC	AC	Procedures AC	AC		
41	Consequences of dropping the pressure vessel (related to the intended use)	Y	AC	damage on installation due to handling	A	Y(AC)	special cranes for transport	NI	Procedures	AC	NI	

[illegible]



DDP+ and PD+

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

June 23, 2013

Attention: Irina Stanescu
ATLAS COPCO COMPRESSORS CANADA
30 MONTROSE
DOLLARD ORMEAUX, QC H9B 3J9

The design submission, tracking number 2013-03670, originally received on May 15, 2013 was surveyed and accepted for registration as follows:

CRN : E0628.62**Accepted on:** June 23, 2013**Reg Type:** New Design**Drawing No. :** CO-10070-03-00 Rev 3 As Noted

Design registered in the name of : COVALIM N V

Description	MAWP	Design Temperature	MDMT
Internal Pressure	1600kPa	120 °C	-10 °C

The registration is conditional on your compliance with the following notes:

- Please note that vessel shall not be pressurised at a temperature below -10 deg. C MDMT. This statement shall be placed in the Remarks section of the Manufacturer's Data Report.
- Vessels constructed under this registration shall be registered with the National Board of BPVI.
- Note that only whole numbers shall be used for specifying pressure and temperature ratings on the name plate per para. 5.1.4, part 1 of CSA B51-09 code.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

Sincerely,

A handwritten signature in black ink, reading 'Desai B.C.', with a stylized flourish at the end.

DESAI, B.C., P. Eng.

(N2) VP-CL03A-K4000-DANGER-WNRF 06" CL-150
 168.3x7.11

15 PIPE 168.3x10.97

10 HEAD 264x5.nom
 DIN 28011

11 PL. 270x12

897
 1012
 1057

SAFETY CODES

REG. No. E 0628.62

DWG. No. Co-10070-03-00 Rev3

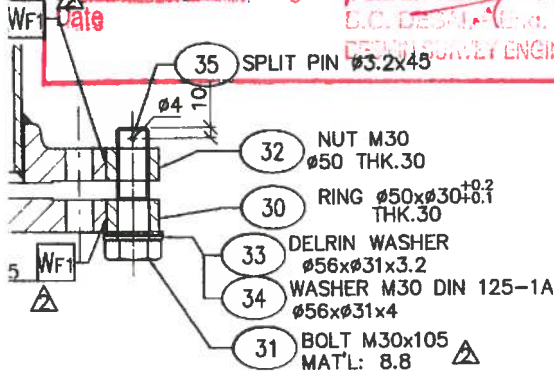
Internal Pres 1600 a-10/20

ACCEPTED

June 23, 2013

Signed

Design Temp
 D.C. DESTA...
 DESIGNER/ENGINEER



See Acceptance Letter for the comments
 and/or conditions of registration.



ANGE BOLTS

TO BE SUPPLIED
 BY ATLAS COPCO

Typ./Notes	Plaatwerk Sheet metal	Soldeermat Flame cutting	Lasen Welding
AK / 2	1350 / K	1355K / C	1354K / B

NUTS	SA-194 2H	
SUPPORTS	SA-316 60	Page 3 of 3 3.1
SCHOTTEN BAFFLES		
DICHTINGEN GASKETS	COMPRESSED NON ASBEST FIBRE	3.1

ONTWERPGEGEVENEN DESIGN DATA

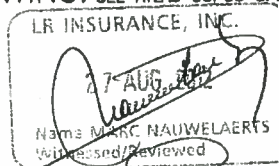
ONTWERPDRUK & TEMP. DESIGN PRESS. & TEMP.	16 BARg (1.6 MPag) AT -10°C (MIN) / 120°C (MAX)
WERKDRUK & TEMP. WORKING PRESS. & TEMP.	16 BARg (1.6 MPag) AT 120°C
MIN-ONTW. METAAL TEMP. MIN DESIGN METAL TEMP.	-10°C
BEPROEVINGSDRUK TEST PRESSURE	22.9 BARg (2.29 MPag)
RADIOGRAFIE RADIOGRAPHY	NONE
CORROSIETOESLAG CORROSION ALLOWANCE	0.5mm
MIN LASCOEFFICIENT MIN JOINT EFFICIENCY	0.7 (0.85 FOR SEAMLESS HEADS) (0.65 FOR MAIN CIRCUMF. SEAMS)
WARMTEBEHANDELING HEAT TREATMENT	NO
NORMEN CODES	ASME VIII DIV. 1 Ed.2010 Add.2011 UM-STAMP / PED 97/23/EC CAT.III MODULE H
GEWICHT WEIGHT	196 Kg
INHOUW CAPACITY	85 L
PRODUKT MEDIUM	COMPRESSED AIR

NOTES:
 - FILLET WELDS 0.7 T_{min} (max 6.3); UNLESS NOTED.
 - TOLERANCE ON WELD BEVEL ANGLE ±3°
 - NO IMPACT TEST REQUIRED AS PER UG20
 - FLANGE FACE FINISH: 125-250 AARH SERRATED

WELDING: - FOR WELDING PROCEDURES: SEE WN10070-WB

"CERTIFIED"
 23/08/2012

PAINTING: SEE ATLAS COPCO SPEC.:9827 2566 00 PAINT SPEC A/B PLATFORM
 9827 2567 00 PAINT SPEC PNEUMATECH



5				
4				
3	COMMENTS COEK	22-08-12	L.V.	
2	COMMENTS COEK	10-08-12	L.V.	
1	COMMENTS ATLAS COPCO & COEK	02-07-12	L.V.	
0	FOR COMMENTS	21-06-12	L.V.	

REV.	WIJZIGINGEN	MODIFICATION	DATUM/DATE	GETEK. DRAWN	NAGEZ. CHKD	GOEDK. APP.
------	-------------	--------------	------------	-----------------	----------------	----------------

SCHAAL SCALE	1/7.5; 1/2; 1/1	KLANT CUSTOMER	ATLAS COPCO
		1617 8030 00	

TYPE 1400 ASME/PED	
CONSTRUCTIE WERKHUIZEN COEK ENGINEERING N.V. GEEL - BELGIUM	Co-10070-03-00 ³ WN 10070-03

CLIENT: ATLAS COPCO CANADA

REPORT BY: GIUSEPPE DE MARCO

LOCATION OF EXAMINATION:

ACCOUNTS PAYABLE
 30 MONTROSE
 DDO QUEBEC H9B 3J9
 SI-35039
 ATTN: ACCOUNTS PAYABLE

DATE: Aug 07, 14

ATTENTION: PHILIPPE A. VERREAULT O

PRODUCT (Type: JA): Air Dryer

Cat/Model No.: CDE1400+

Permanently connected.

Manufacturer's Name: Atlas Copco

No. of units labelled: 2

Electrical rating: 115 Vac, 60 Hz, 0.87 A, 1ph

Unit Serial Number	Label Number (996)	Unit Serial Number	Label Number (996)
UTF122HZ1	C 2228489	UTF122HY1	C 2228490

Representative Leakage Current (uA):	Normal: GO/NC: _____, GO/NO: _____	Reverse: GO/NC: _____, GO/NO: _____
--------------------------------------	------------------------------------	-------------------------------------

Dielectric Strength: 1200 Vac for 1 sec(s) on 100% Prod., - Satisfactory

Flame Test: N/A - metal

Strain Test: N/A
 Permanently Connected

Caution Notices – Disconnect Supply Before Servicing;;

DECLARATION:

The following technical requirements were used in the evaluation of the product covered in this Report:

CSA Standard C22.2 No. 0-10, 0.4-04 as guides and SPE-1000-13.

Labelled: Yes


ALTERATIONS:

None.

Observations:

- Marking & nameplate---OK--
- Ground connected directly to chassis.
- Bonding of metal parts --OK--
- Fuse rating --OK--
- Schematics available on site.
- Contruccion and workmanship.
- Control panels are of secure access.
- Main Disconnect supplied by end user as shown in the schematics.
- Metal enclosure structurally with gaketted door sound as a type 3R.
- Control cubicle listed cUL. SI performed on equipment final assembly.
- Voltage Control 115/24 Specified inside control Panel.
- CRN on pressure vessel

Test Equipment: Functionality test performed prior to and post dielectric test.
 (Dielectric, 16-10-0165, Cal Due: 2014-11)



MEG ENERGY

☒ 1. Reviewed & Accepted. Manufacturing may proceed.

☐ 2. Reviewed & Accepted as marked. Revise & resubmit. Manufacturing may proceed.

☐ 3. Review as marked & re-submit. Manufacturing may not proceed.

☐ 4. Review not required. For information only. Manufacturing may proceed.

Date: 2017-10-26

Bob Rutberg for Abdo Al-Shareef *Bob Rutberg*

Print Name Signature