

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Pressure Switch**

with type designation(s)
MDR-F..2, 4, 8, 10, 12.5, 16, 32, 60, 120, 250..

Issued to

Condor-Werke Gebr. Frede GmbH
Ennigerloh, Germany

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature	B
Humidity	B
Vibration	B
EMC	A
Enclosure	Required protection according to DNV GL Rules shall be provided upon installation on board

Issued at **Hamburg** on **2020-10-01**

This Certificate is valid until **2025-09-30**.

DNV GL local station: **Magdeburg**

Approval Engineer: **Didier Girardin**



for **DNV GL**

Digitally Signed By:
Papanuskas, Joannis

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

TECHNICAL DATA:

Rated operating current I_e , $U_e=240V$ (1~)/AC 1 10A

Rated operating current I_e , $U_e=240V$ (1~)/AC 15 4A

Output contacts:

Microswitch, 1x SPDT (Single Pole Double Throw)

Temperature range:

Metal Flange $-20\text{ }^{\circ}\text{C} \dots +70\text{ }^{\circ}\text{C}$

Plastic Flange $-20\text{ }^{\circ}\text{C} \dots +50\text{ }^{\circ}\text{C}$

Degree of Protection: IP65

Material Flange:

High pressure flange, CuZn39Pb3 (CW614N); CuZn36Pb2As (CW602N);

X10CrNiS189 (1.4305);

X2CrNiMoN22-5-3 (1.4462)

Metal flange, G-AlSi 12

Plastic flange, PA 6.6 GF 30%

Pressure range:

High pressure flange up to 250 [bar]

Metal flange up to [32 bar]; Plastic flange up to 12,5 [bar]

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Hidden

Renewal of certificate 86884 -10 HH including:

TR-06193.020.10 V1.0 dated 29.01.2010

TR- S-0369-3440-00RK dated 27.01.2010

TR-No. 09-2662 dated 28.01.2010

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, December 2019.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Job Id: **262.1-033435-1**
Certificate No: **TAA00002VK**

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE



Industrie Service

CERTIFICATE

TÜV SÜD-DG-0364.2016.002

Manufacturer:

OMAL S.p.A.
Via Ponte Nuovo 11
IT – 25050 Rodengo Saiano (BS)

Plant(s):

Via Ponte Nuovo 11 **Via Brognolo 12**
IT – 25050 Rodengo Saiano (BS) **I - 25050 Passirano (BS)**

Inspection according:

AD 2000-Merkblatt HP 0 / A4

The company

- has facilities permitting manufacturing and inspection in compliance with the current technical standards,
- operates a quality system which guarantees that manufacturing and inspection of the products stated in our report are in conformity with the technical rules and standards,
- employs qualified supervisory and inspection personnel.

The company has the welding suitability for manufacturing pressure equipment according above mentioned standards.

Independently of this certificate the requirements of the respectively selected module have to be considered within the framework of manufacturing pressure equipment according to Pressure Equipment Directive 2014/68/EU.

Report no.:

R-722206448-19

Valid until:

September 2022

Munich, November 26, 2019



Certification Body
Material and Welding Technology

Klaus Schlotterer



EQ2704618

TÜV SÜD Industrie Service GmbH, Westendstr. 199, 80686 Munich, Germany

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
236889-2017-AQ-ITA-ACCREDIA

Initial certification date:
14 July 1992

Valid:
10 June 2020 - 09 June 2023

This is to certify that the management system of

OMAL S.p.A. - Sede Legale e Operativa

Via Ponte Nuovo, 11/1 - 25050 Rodengo Saiano (BS) - Italy
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:

Design and e production of pneumatic actuators, electric actuators, ball valves 2-way and 3-way, butterfly valves, Angle seat valves, pneumatic valves coaxial through assembly (IAF 18)

Place and date:
Vimercate (MB), 21 July 2020



SGQ N° 003 A
SGA N° 003 D
SGE N° 007 M
SCR N° 004 F

EMAS N° 009 P
PRD N° 003 B
PRS N° 094 C
SSI N° 002 G

Membro di MLA EA per gli schemi di accreditamento
SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF
per gli schemi di accreditamento SGQ, SGA, SSI, FSM
e PRD e di MRA ILAC per gli schemi di accreditamento
LAB, MED, LAT e ISP

For the issuing office:
DNV GL - Business Assurance
Via Energy Park, 14, - 20871 Vimercate
(MB) - Italy

Zeno Beltrami
Management Representative

Certificate No: 236889-2017-AQ-ITA-ACCREDIA
Place and date: Vimercate (MB), 21 July 2020

Appendix to Certificate

OMAL S.p.A. - Sede Legale e Operativa

Locations included in the certification are as follows:

Site Name	Site Address	Site Scope
OMAL S.p.A. - Sede Legale e Operativa	Via Ponte Nuovo, 11/1 - 25050 Rodengo Saiano (BS) - Italy	Reference to scope
OMAL S.p.A. - Sede Operativa	Via Brognolo, 12 - 25050 Passirano (BS) - Italy	Reference to scope

Certificate of Approval

This is to certify that the Management System of:

Walker Filtration Ltd

Birtley Road, Washington, NE38 9DA, United Kingdom

has been approved by Lloyd's Register to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 00005450

The scope of this approval is applicable to:

Design and manufacture of compressed air and gas filters, dryers and purification equipment, vacuum filters, autoclave filters for steam sterilizers and smoke evacuators for use in medical laser surgery.



David Derrick

Area Operations Manager UK & Ireland

Issued by: Lloyd's Register Quality Assurance Limited



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Certificate of Approval

This is to certify that the Management System of:

Walker Filtration Ltd

Birtley Road, Washington, NE38 9DA, United Kingdom

has been approved by Lloyd's Register to the following standards:

ISO 13485:2016



David Derrick - Area Operations Manager UK & Ireland

Issued by: Lloyd's Register Quality Assurance Limited

Current issue date: 23 January 2020

Expiry date: 22 January 2023

Certificate identity number: 10246432

Original approval:

ISO 13485 – 23 January 2020

Product Approval number: ISO 13485 – 00023904

The scope of this approval is applicable to:

Manufacture of Medical Gas Products (Manifolds, Wallzones, Medical Plant, Hoses, PMGS Outlets, LBV and Global Dryer) for various OEM Brands and supply of associated service parts required for the product life.



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DECLARAȚIE DE CONFORMITATE CE

Noi, (1), declarăm prin prezenta că următoarele produse și variantele acestora respectă următoarele directive și standarde tehnice. Această declarație este valabilă numai pentru produse aflate în starea inițială (cum au fost fabricate). Modificările sau piesele care nu au fost adăugate de producător sunt excluse de sub incidența acestei declarații.

Denumirea produsului	Golire a condensului
Gama de modele	EWD 50, EWD 75, EWD 330, EWD 1500, EWD 16K și variantele acestora
Versiuni de tensiuni	24 V c.c., 24 V c.a., 48 V c.a., 115 V c.a., 230 V c.a.
Directiva 2006/95/CE privind tensiunea joasă	
S-au aplicat standarde armonizate	EN 61010-1:2001 + erata 1:2002
Anul de etichetare CE	99
Dispozitivele cu tensiune operațională de 24 V c.c., 24 V c.a. și 48 V c.a. nu sunt cuprinse în obiectul directivei privind tensiunea joasă.	
Directiva privind EMC 2004/108/CE	
S-au aplicat standarde armonizate	EN 55011:2007 + A2:2007, grupa 1, clasa B; EN 61326-1:2006
Directiva privind echipamentele sub presiune PED 97/23/CE (numai EWD 16K C)	
Clasificarea echipamentelor sub presiune în conformitate cu PED, Articolul 9.	Echipamente sub presiune pentru grupul de lichide 2
Procedură de evaluare a conformității cu respectarea PED, articolul 10.	Modulul A, categoria I

(1): Adresă de contact:

Atlas Copco Airpower n.v.

P.O. Box 100

B-2610 Wilrijk (Antwerp)

Belgium

ATLAS COPCO AIRPOWER
 Naamloze Vennootschap
 B.T.W. 403.992.231
 LUCHTCOMPRESSOREN
 Homsesteenweg 957, WILRIJK
 B 2610 Antwerpen

Evaluation of the solid particle removal efficiency of Atlas Copco DD+/DDp+ or PD+/PDp+ filter According to ISO12500-3:2009

Test report IBR JN: 12828A & 12828C

Report prepared for: Atlas Copco Airpower n.v.

Issue date of certificate: 26^h October, 2012

PN for DD+/DDp+: 1 624 1829 09

PN for PD+/PDp+: 1 624 1829 07

	0.01 µm	0.1µm	0.5 µm	1 µm	5µm
DD+/DDp+	99.93%	99.92%	99.95%	99.998%	>99.999%
PD+/PDp+	99.995%	99.992%	99.997%	>99.999%	>99.999%

	MPPS	Efficiency at MPPS
DD+/DDp+	0.1 µm	99.92%
PD+/PDp+	0.06 µm	99.98%

Report Authorized By:



Susan H Goldsmith Managing Director

Note: Full report available upon request

TÜV Rheinland LGA Products GmbH • 51105 Cologne • Germany

Atlas Copco Airpower n.v.
P.O. Box 104
Boomsesteenweg 957
2610 Wilrijk
Belgium

Your correspondence
Dr. Norbert Horlemann

Order-No.: 3047714

Phone +49 (0)221-806-1896
Fax +49 (0)221-806-1461
Mail horlema@de.tuv.com

Customer Service Center
for Products
Phone +49 911 655-5225

Mail service@de.tuv.com

Cologne, 05th March 2012

Type Test certificate
Evaluation of the residual aerosol oil content after an
Atlas Copco PD+ filter
Test report No.: 3047714

The Atlas Copco PD+ filters are measured under the test conditions according to ISO 12500-1:2007, the compressed air samples are analyzed according to the ISO 8573-2:2007 test method.

	Maximum residual aerosol oil content	Average wet pressure drop
PD+-filter	0.008 mg/m ³	< 215 mbar

i. V.



Björn Koch

i. A.



Dr. rer. nat. Norbert Horlemann

TÜV Rheinland
LGA Products GmbH

Am Grauen Stein 29
51105 Cologne
Germany

Headquarter

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LGA Products GmbH

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Nuremberg HRB 26013
VAT No.: DE811835490

Certificate of Approval

This is to certify that the Management System of:

Atlas Copco Airpower NV

Boomsesteenweg 957, 2610 Wilrijk, Belgium

has been approved by Lloyd's Register to the following standards:

ISO 13485:2016

Product approval number: ISO 13485 – 0010344

The scope of this approval is applicable to:

Manufacture of medical device components for compressors, vacuum pumps and air treatment products.



David Derrick

Area Operations Manager UK & Ireland

Issued by: Lloyd's Register Quality Assurance Limited



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CERTIFICATE



This is to certify that

Condor-Werke Gebr. Frede GmbH

Warendorfer Straße 47 - 51
59320 Ennigerloh
Germany

with the organizational units/sites as listed in the annex

has implemented and maintains a **Quality Management System**.

Scope:

Development, production and sales of electromechanical switches as well as monitoring systems and control units for the pump- and compressor industry

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2015

Certificate registration no.	001856 QM15
Valid from	2021-07-13
Valid until	2024-07-09
Date of certification	2021-07-13



DQS GmbH

Markus Bleher
Managing Director



Annex to certificate
Registration No. 001856 QM15

Condor-Werke Gebr. Frede GmbH

Warendorfer Straße 47 - 51
59320 Ennigerloh
Germany

Location

350590
Condor Pressure Control GmbH
Warendorfer Straße 47 - 51
59320 Ennigerloh
Germany

Scope

Development, production and sales of
electromechanical switches as well as
monitoring systems and control units for the
pump- and compressor industry

