



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX TPS 22.0058X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2023-05-08
Applicant: **Servovalve S.p.A.**
via Quasimodo, 25/27
Santo Stefano Ticino
Milano 20010
Italy
Equipment: **Pneumatic Linear Actuators PA/PC/PD Series**
Optional accessory:
Type of Protection: **Ex h (constructional safety)**
Marking: Ex h IIC T6...T5 Gb
Ex h IIIC T85°C...T100°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. Ulrich Jacobs

Position:

Technical Certifier

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

TÜV SÜD Product Service GmbH
Ridlerstr. 65
D-80339 Munich
Germany



Product Service



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Manufacturer: **Servovalve S.p.A.**
via Quasimodo, 25/27
Santo Stefano Ticino
Milano 20010
Italy

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

ISO 80079-36:2016 Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements
Edition:1.0

ISO 80079-37:2016 Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"
Edition:1.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/TPS/ExTR22.0059/00](#)

Quality Assessment Report:

[DE/TPS/QAR23.0001/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Servo valve actuators type PA/PC/PD consist of pneumatic cylinders designed to operate globe or gate or any other valve that might require a linear movement operator, with a fail safe spring action to open (PA) or to close (PC) or double action without spring (PD).

SPECIFIC CONDITIONS OF USE: YES as shown below:

The ambient temperature range is -20°C to +85°C (T5) or -20°C to +70°C (T6)

Annex:

[Annex to COC TPS 22.0058X.pdf](#)

Annex to certificate: IECEx TPS 22.0058X
Applicant: SERVOVALVE S.p.A.
 via Quasimodo, 25/27 I-20010 Santo Stefano Ticino (MI) - Italy
Apparatus: Pneumatic Linear Actuators
Type(s): PA/PC/PD Series

General product information:

- The PA actuator consists of a pneumatic spring return single acting actuator. It is operated by means of a medium such as air or gas. Once pressure is applied to the cylinder, the piston moves downwards, closing the valve and compressing the spring.
 When the medium fails the spring pushes the piston up, opening the valve.
- The PC actuator consists of a pneumatic spring return single acting actuator. It is operated by means of a medium such air or gas. Once pressure is applied to the cylinder, the piston moves upwards, opening the valve and compressing the spring.
 When the medium fails the spring pushes the piston down closing the valve.
- The PD actuator consists of a pneumatic double acting actuator. It is operated by means of a medium such air or gas. If pressure is applied to the bottom cylinder, the piston moves upwards, opening the valve; if pressure is applied to the top cylinder, the piston moves downwards, closing the valve; when the medium fails the piston does not move

Model

a	b	c	d	e	e	e	/	f	/	g	g	g	g	/	h	h	h	i	l	l	l	m	n	o
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a - Medium

- P air or gas
- H oil or other liquid

b . Spring action

- C close
- A open
- D double acting

c – Optional device

- V handwheel
- R reductor
- H hydraulic pump
- A damper
- Z hydraulic pump and damper
- X special execution

d . Belleville Spring

- T belleville springs (missing for double acting or helicoidal springs)

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Applicant: SERVOVALVE S.p.A.
via Quasimodo, 25/27 I-20010 Santo Stefano Ticino (MI) - Italy
Apparatus: Pneumatic Linear Actuators
Type(s): PA/PC/PD Series

e - Cylinder Nominal Size

f - Number Of Cylinder

- 2 n°2 cylinders
- 3 n°3 cylinders (missing for n°1 cylinder)

g - Type Of Spring

- spring code (missing for double acting or belleville springs)

h - Max Spring Bench

i - Temperature Range

- N -20°/+85°C (T5)
- S special temperature -20°/+70°C (T6)

l - Cylinder Stroke

m - Coupling

- B bracket
- C columns
- U columns with flange
- F flange

n - Control Circuit

- P included
- N not included

o - Mechanical End Travel Stop

- O open position
- C closed position
- D open and closed position (missing for standard execution without mechanical end travel stop)