

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 25 ATEX 77903X** **Issue 0**

[4] Product: **Valve Positioner**
Valve Positioner FISCO

[5] Manufacturer: **PMV Automation AB**

[6] Address: **Korta gatan 9**
171 54 Solna
Sweden

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.


[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 and EN 60079-11:2012

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 1 G Ex ia IIC T4 Ga**
II 1 G Ex ia IIC T4 Ga FISCO Field Device

Date of issue:
2025-08-27



Asle kaastad
For DNV Product Assurance AS
The Certificate has been digitally signed.



[13]

Schedule

[14]

EU-Type Examination Certificate No:

DNV 25 ATEX 77903X

Issue 0

[15]

Description of Product

The PMV D3I is a digital positioner designed primarily to control modulating valves. The positioner can be used with single or double action actuators with either rotary or linear movement.

The D3I positioner comprises:

- Electronic board with microprocessor, Hart modem or fieldbus (FISCO) interface, display etc,
- Pneumatic valve block,
- Positional feedback with potentiometer
- Compartment for electrical connections.
- The positioner D3I can also be equipped with modules for feedback, limit switches, and a pressure gauge block. The modules can be factory assembled before delivery or fitted later. The modules for feedback and limit switches can contain the following. Feedback 4-20mA and one of the following functions:
Two mechanical switches: Two reed switches: Two inductive sensors.
- Remote unit, an external unit containing the position potentiometer and indicator.

Type designation

D3I abcdefghijkl

The additional letters and digits in the type reference concern different accessories and functions of the instrument.

a: Air pipe connection thread type,

b: Surface treatment,

c: Function,

de: Spindle,

fgh: Cover and indicator,

i: Sensors /Temperature/Seals,

j: Input signal/protocol: 4, 5, P, F

4: 4-20mA

5: 4-20mA Hart

P: Profibus PA(FISCO field device)

F: Foundation Fieldbus(FISCO field device)

k: Feedback option

X: no option

S: Limit switch MEC + 4-20mA

N: Limit sensors NAM + 4-20mA

P: Limit switches PXY + 4-20mA

T: 4-20mA transmitter only

5: Slot type Namur sensor, P+F SJ2 SN+ Alarm

6: Slot type Namur sensor, P+F SJN + Alarm

l: Accessories:

X: No accessories

M: Gauge block

D3I Remote Unit

A separate unit for connection to the D3I.

The Remote Unit is connected to terminals 3,4 and 5 on models with type indicator c=M or R and k=T

Intrinsic Safety Parameters

The transmitter must be connected to safety barriers or isolators according to the drawing 3-86C. corresponding to the stated input values of the positioner.

Profibus PA, Fieldbus Foundation, FISCO field device, input signal. Terminals no. 1, 2

Maximum input voltage.	U _i :	17,5V
Maximum input current.	I _i :	380mA
Maximum input power.	P _i :	5,32W
Maximum internal capacitance.	C _i :	2nF
Maximum internal inductance.	L _i :	8μH

4-20mA input signal. Terminals no. 1, 2

Maximum input voltage.	U _i :	28V
Maximum input current.	I _i :	93mA
Maximum input power.	P _i :	653mW
Maximum internal capacitance.	C _i :	11,3nF
Maximum internal inductance.	L _i :	11,3μH

Switches, Mechanical or Proximity. Terminals 3-5, 6-8 or 4-5, 7-8

Maximum input voltage.	U _i :	28V
Maximum input current.	I _i :	45mA
Maximum input power.	P _i :	315mW
Maximum internal capacitance.	C _i :	4nF
Maximum internal inductance.	L _i :	5μH

Switches, Mechanical or Proximity with isolator barriers. Terminals 3-5, 6-8

Maximum input voltage.	U _i :	10,6V
Maximum input current.	I _i :	29,7mA
Maximum input power.	P _i :	79mW
Maximum internal capacitance.	C _i :	1nF
Maximum internal inductance.	L _i :	1μH

Namur switch and isolator barrier. Terminals 3-4, 6-7

Maximum input voltage.	U _i :	10,6V
Maximum input current.	I _i :	29,7mA
Maximum input power.	P _i :	79mW
Maximum internal capacitance.	C _i :	35nF
Maximum internal inductance.	L _i :	50μH

4-20mA Output. Terminals 9-10

Maximum input voltage.	U _i :	28V
Maximum input current.	I _i :	75mA
Maximum input power.	P _i :	525mW
Maximum internal capacitance.	C _i :	5,7nF
Maximum internal inductance.	L _i :	5μH

Alarm. Terminals 11-12

Maximum input voltage.	U _i :	28V
Maximum input current.	I _i :	45mA
Maximum input power.	P _i :	315mW
Maximum internal capacitance.	C _i :	5,7nF
Maximum internal inductance.	L _i :	5μH

Degrees of protection (IP Code)

IP 66 according to IEC 60529
Type 4X according to NEMA 250

Ambient temperature:

-30°C to +80°C

D3I Remote Unit: -30°C to +120°C

Routine tests

None

[16] **Project No.:** PRJN-962605

[17] **Specific Condition(s) of Use**

1. The enclosure is made of aluminium and impact or friction caused by external objects shall be avoided in the application.
2. The cable connection the D3I Remote Unit with the D3 –unit shall be Type A or B in accordance with EN 60079-25. The cable must be adequately mechanically protected in all instances and have a temperature rating for the ambient temperature range at the site.

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] Drawings and documents

Number	Title	Rev.	Date
D3I Technical File	D3 IS Certification Scheduled files list	3	2025-08-18

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2025-08-27	PRJN-962605
<i>(The certificate is based on previous certificate Nemko 03ATEX110X issue 0-7 and Nemko report numbers 200309115, 26023, 41473, 64145, 105867, 131793, 160923 and 188549.)</i>			

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

END OF CERTIFICATE

