

[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 26 ATEX 59616X** **Issue 0**

[4] Product: **IP6000 Series Intelligent Valve Positioner**

[5] Manufacturer: **POWERFLOW CONTROL CO., LTD.**

[6] Address: **Room 201-1, Unit F, Building 3, No.8 Nine
XiYuan Road, XiHu, Hangzhou, Zhejiang,
China**

[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 T6 Ga or Ex ia IIC T4 Ga**

Date of issue:
2026-08-31




Ståle Sandstad
For DNV Product Assurance AS
The Certificate has been digitally signed.

Schedule

Issue 0

The IP6000 Series intelligent valve positioner includes three basic configurations including normal version, remote version and separate version.

The remote version intelligent valve positioner consists of the main enclosure and the remote transmission shell which are connected together by a cable. The piezoelectric module, control board and optional current feedback board are installed inside the main enclosure, the remote adaptor board and the sliding rheostat are installed inside the remote transmission shell.

The separate version intelligent valve positioner consists of the main enclosure and the separate sensor enclosure which are connected together by a cable. The piezoelectric module, control board and optional current feedback board are installed inside the main enclosure, the sliding rheostat is installed inside the separate sensor enclosure.

For products without current feedback board, only one intrinsically safe circuit (input signal circuit) is included. For the products with optional current feedback board, two separate intrinsically safe circuits (input signal circuit and output signal circuit) are included.

IP6000 - □ - □ - □ - □ - □ - □ - □ - □ - □ - □ - □ - □ - □

L: -40 °C to +40 °C / +80 °C

F: Freeze

1: Yes

2: Rotary

1: Yes

1: Yes

Explosion signs:

i: Ex i

Acting mode:

S: Single acting

D: Double acting

Stroke type:

L: Normal linear

FL: Remote linear

R: Normal rotary

FR: Remote rotary

S: Separate (not for Ta -40°C)

IP6000: Basic catalog series designation

Electrical Data:

Input signal current: 4~20 mA d.c.

Input power: ≤ 0.3W

Output signal voltage for products of feedback signal version: 14~28 V d.c.

Output signal current for products of feedback signal version: 4~20 mA d.c.

Safety parameters:

Intrinsically safe circuit	Ui	Ii	Pi	Ci	Li
Input signal	28 V	93 mA	0.66 W	0	0
Output signal					

Degrees of Protection (IP Code)

IP66

Ambient temperature:

-40 °C to +40 °C or -20 °C to +40 °C for T6

-40 °C to +80 °C or -20 °C to +80 °C for T4

Routine tests

- Visual verification shall be carried out on the encapsulation according to clause 10.4 of EN IEC 60079-11:2024.

[16] **Report No.:** 2026-8219, Rev. 00
Project No.: PRJN-791913

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

- Products with aluminum enclosures can not be installed in zone 0 unless there is no ignition hazard due to impact or friction.

- For application of fixed installation of the products IP6000-S..., the end user shall follow the guidance in the instruction manual to minimize the risk of electrostatic discharge for the products.

[18] Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9 and EN IEC 60079-11:2024.

[19] Drawings and documents

Number	Title	Rev.	Date
IP6000	IP6000 Series Intelligent Valve Positioner Assembly Drawing	V240425	2024-04-25
IP6000-0-FL/FR	IP6000 Series Intelligent Valve Positioner Assembly Drawing (remote)	V230814	2023-08-14
IP6000-0-S	IP6000 Series Intelligent Valve Positioner Assembly Drawing (separate)	V230814	2023-08-14
IP6000-31	Electrical wiring diagram	-	2026-03-25
IP6000-33	Electrical wiring diagram (remote)	-	2026-03-25
IP6000-32	Electrical wiring diagram (separate)	-	2026-03-25
PF/IP6000-001-2026	IP6000 control board schematic	V260324	2026-03-09
PF/IP6000-P01-2026	IP6000 control board PCBA	-	2025-11-09
PF/IP6000-012-2026	IP6000 control board PCB (four sheets)	-	2025-11-09
PF/IP6000-B1-2025	IP6000 control board BOM	-	-
PF/IP6000-002-2026	IP6000 current feedback board schematic	V260326	2026-03-10
PF/IP6000-P02-2026	IP6000 current feedback board PCBA	-	2023-11-09
PF/IP6000-013-2026	IP6000 current feedback board PCB (two sheets)	-	2023-11-09
PF/IP6000-B2-2025	IP6000 current feedback board BOM	-	-
PF/IP6000-003-2026	IP6000 angle sensor schematic	V260325	2026-03-10
PF/IP6000-P03-2026	IP6000 angle sensor PCBA	-	2025-11-09
PF/IP6000-023-2026	IP6000 angle sensor PCB (two sheets)	-	2025-11-09
PF/IP6000-B3-2025	IP6000 angle sensor BOM	-	-
PF/IP6000-004-2026	IP6000 remote adapter schematic	V260325	2026-03-10
PF/IP6000-014-2026	IP6000 remote adapter board PCB	-	2023-11-09
PF/IP6000-B4-2025	IP6000 remote adapter BOM	-	-
IP6000-30	Nameplate	V240425	2024-04-25

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2026-08-31	2026-8219, Rev.00

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