

# EU-TYPE EXAMINATION CERTIFICATE

## Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- EU-Type Examination Certificate Number:** ETL21ATEX0056X      **Issue 00**
- Product:** Valve Position Monitors (2600, 360, 366, D260, D261, D270, D271 Series)
- Manufacturer:** Westlock Controls Corporation
- Address:** 280 N Midland Ave  
Saddle Brook, NJ 07663-5708  
USA
- Manufacturer:** Crane Fluid & Gas Systems (Suzhou) Co., Ltd.
- Address:** No. 1, Runsheng Road  
SIP  
Suzhou  
Jiangsu  
215126  
China
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing Services NA Ltd., Notified Body number 2903 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the 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 of the Directive.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-31:2014 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This EU-Type Examination Certificate relates only to the design and construction of the specified product. 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 2 G Ex db IIC T\* Gb



II 2 D Ex tb IIIC T\* Db IP 6X

-60°C ≤ Ta ≤ \*°C

\*Dependent on configuration, see description for details

**Certification Officer:** \_\_\_\_\_

A handwritten signature in black ink that reads "Kevin J. Wolf".

Kevin J. Wolf

**Date:** \_\_\_\_\_

12 December 2021



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### 13. Description of Equipment or Protective System

The 2600, 360, 366 Series Valve Position Monitors and D260, D261, D270 and D271 Valve Position Transmitter provide two methods of end of travel indication by the means of mechanical switches, inductive proximity sensors or proximity switches and an external visual indicator, dependent on model ordered. For applications that require position feedback, ancillary components such as a 4-20mA current signal transmitter, a DS 4-20 mA digital non HART transmitter or HART based DS transmitter for (models D260, D261, D270, D271). The 2600, 360, 366, D260, D261, D270, D271 series enclosure is available in two materials: Cast Aluminium (2600 or 360 or D260, D261 series) or 316 Stainless Steel (2600 or 366 or D270, D271 series).

The enclosure construction comprises a housing with a threaded cover. The enclosure is cylindrical in construction with an approximate diameter of 130mm and is approximately 100mm tall with the optional beacon measuring approximately 30mm tall mounted beneath the enclosure.

The housing has the option of up to four cable entry positions. Entries are provided for connection purposes, via appropriate IECEx certified cable glands, of sizes M20 x 1.5p, M25 x 1.5p, 1/2"–14NPT or 3/4"–14NPT. The enclosure may optionally be fitted with up to two Ex d coils, which are fitted via M32 x 1.5p, threaded entries at up to two of the four cable entry positions. For the 2600, 360, 366, D260 and D270 series a ½ NPT conduit entry is used the Ex d coils.

On the 2600 series, the first two digits of the WESTLOCK nomenclature signify the series, with the third digit defining whether the product has a visual beacon or not. However, on the 360 or 366 series the first three digits of the nomenclature signify the series, with the fifth and sixth digit defining the type of beacon utilized, or whether a beacon is not fitted.

In the D260 and D270 series the first four digits signify the series, with the fifth and sixth characters defining the shaft option, the next four designate the end of travel feedback switch, followed by two characters designate the Beacon (visual indication), followed by 1 digit for coil voltage, followed by three characters for Falcon valve body, followed by 1 digit for valve options, followed by two characters for certification options and 1 digit for conduit options. In the D261 and D271 series the first four digits signify the series, with the fifth and sixth characters defining the shaft option, the next four designate the end of travel feedback switch, followed by two characters designate the Beacon (visual indication), followed by two characters for certification options and 1 digit for conduit options. The table below details the applicable ambient ranges:

Series Code	T Class	Ambient Range
264*/266*/360/366/D261/D271	T6 (80°C)	-60°C to +65°C
	T5 (95°C)	-60°C to +80°C
	T4 (130°C)	-60°C to +110°C

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The below table signifies the ambient temperature range of use and the corresponding T Class of the item if the option for a solenoid is employed. Note the solenoid option is only for model series 2600, 360, 366, D260 and D270.

Ambient Ranges for X(TAB) models with H-class coils					
Configuration	O-Ring Material	Temperature Code			
Power	O-Ring Material	T6	T5	T4	T3
1.80 W & 0.85 W & 0.50 W	EPDM	-55°C to +42°C	-55°C to +57°C	-55°C to +60°C	-55°C to +60°C
	LT Buna	-40°C to +42°C	-40°C to +52°C	-40°C to +52°C	-40°C to +52°C
	Buna	-20°C to +42°C	-20°C to +57°C	-20°C to +60°C	-20°C to +60°C
	FKM	-20°C to +42°C	-20°C to +57°C	-20°C to +87°C	-20°C to +105°C
4 W	EPDM	-55°C to +31°C	-55°C to +46°C	-55°C to +60°C	-55°C to +60°C
	LT Buna	-40°C to +31°C	-40°C to +46°C	-40°C to +52°C	-40°C to +52°C
	Buna	-20°C to +31°C	-20°C to +46°C	-20°C to +60°C	-20°C to +60°C
	FKM	-20°C to +31°C	-20°C to +46°C	-20°C to +76°C	-20°C to +105°C

Solenoid Option for Models 2600, 360, 366, D260 and D270			
Ambient Range & Temperature Class			
Configuration	Temperature Code		
	T6 (80°C)	T5 (95°C)	T4 (130°C)
Westlock Low-Temperature Coil	-60°C to +65°C	-60°C to +80°C	-60°C to +85°C

On the 2600 series the 4th digit detail the switch type utilized, similarly the 10th, 11th, and 12th digits on the equivalent series (360 or 366) and similarly the 8th, 9th, and 10th digits on the equivalent series (D260/D270/D261/D271) detail the switch type used. The following table details the most common switch/sensor types together with their electrical ratings. The 5th and 6th digits on the equivalent series (360 or 366) code denote the beacon type. If the series does not have a beacon the 5th and 6th digits on the series code are replaced by 00.

Series Code / Switch Designation	Electrical Rating
26x5/360/366XXXXXXM02XXXXXXXXXX	Mechanical (SPDT): 15A - 125 or 250 VAC, 6A - 24 VDC
26x6/360/366XXXXXXM04XXXXXXXXXXXX D260/D270/D271/D271XXXXM04XXXXXXXXXXXX	Mechanical (DPDT): 10A - 125 or 250 VAC, 10A - 24 VDC
26x9/360/366XXXXXXM06XXXXXXXXXXXX D260/D270/D261/D271XXXXM06XXXXXXXXXXXX	Magnum (SPDT): 3A - 120 VAC or 2A - 24 VDC
26x7/360/366XXXXXXMXXXXXXXXXXXXXXXX D260/D270/D261/D271XXXXM08XXXXXXXXXXXX	Inductive Proximity Sensors limited: 1A - 8 to 60 VDC or 2A - 20 to 250 VAC
D260/D270/D261/D271XXXXM09XXXXXXXXXXXX	Mechanical Gold Contact (SPDT): 6A - 24 VDC, 15A - 125 or 250VAC
26x9*/360/366XXXXXXM12XXXXXXXXXXXX D260/D270/D261/D271XXXXM12XXXXXXXXXXXX	Magnum Rhodium Contacts (SPDT): 200mA - 120 VAC or 1A - 24 VDC
360/366XXXXXXM14XXXXXXXXXXXX	SPST Super Magnum Switches (Bifurcated Reed): 3A - 120 VAC, 2A - 24 VDC
26x4/360/366XXXXXXM17XXXXXXXXXX	Magnum (DPDT) Cobra: 3A - 120 VAC, 2,5A - 230 VAC, 2A - 24 VDC max.
26x4*/360/366XXXXXXM18XXXXXXXXXXXX	DPDT Magnum Cobra, Rhodium Contacts: 200 mA - 120 VAC, 2A - 24 VDC

\* Rhodium contact material indicated by 'special code'

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The third digit on the alternative series codes can either be a 0 or 6, depending on the type of series model used (360 or 366).

The 2600, 360, or 366 series valve position monitor has the option for position feedback by the means of a DS Transmitter (non HART) (DS).

The D260, D261 and D270, D271 series Valve Position Transmitter (HART) with option for end of travel switches.

- The DS Transmitter electrical ratings are – current loop 4-20mA @ 9 to 30 VDC.

The 2600, D260, D270, 360 or 366 series can also be fitted with up to two Ex d coils with the following possible electrical ratings.

Coil Voltage	Electrical Ratings
24 VDC	24 VDC (<1.8 W)
125 VDC	125 VDC (1 W)
90-120 VAC	90-120 VAC (4 VA)
120 VAC	120 VAC (3.2 VA)
220-240 VAC	220-240 VAC (4 VA)
Others	Limited To 1.8 W or 4 VA

### 14. Report Number

Intertek Report: 104784554CRT-001a Issue: 00 Dated: 02-November-2021

### 15. Special Conditions of Certification

#### (a). Special Conditions of Use

- Temperatures at the cable entry point can exceed 70°C and 80°C at the branching point. Selection of the cable must be appropriate for the ambient temperature range.
- When conduit is utilized, the conduit must be sealed in accordance with clause 13.2.2 of IEC 60079-1 with a suitably approved conduit sealing device.
- All unused entries must be plugged with suitably approved flameproof blanks with an ingress protection rating of IP6X.
- The equipment is provided with a serial number label externally, if required by the end user Westlock Controls will supply an internal serial number label.
- No modifications must be made to the flamepaths of the unit without consultation of the drawings.
- Flamepath joints are not intended to be repaired.

#### (b). Conditions of Manufacture - Routine Tests

- None

### 16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104784554CRT-001a Issue: 00 Dated: 02-November-2021.

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### 17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
360, 366, 2600, D260, D261, D270, D271 ATEX / IECEx Label Master	LB-040801UK	K	10/27/2021
Certification Drawing 360, 366, 2600, D260, D261, D270, D271 ATEX / IECEx	MS-10762	F	10/25/2021
Digital Epic D200 Models Operating Manual	Tech-546-EN	C	10/20/2021
2600 Series ATEX IECEx and UK CA Certified Installation and Operating Instructions	VCIOM-05081	--	--

