

# CERTIFICATE OF CONFORMITY



- HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS
- Certificate No: **FM22CA0026X**
- Equipment: **VEGAPULS 6X Series**  
(Type Reference and Name) **Level Transmitters**
- Name of Listing Company: **Vega Grieshaber KG**
- Address of Listing Company: **Am Hohenstein 113**  
**Schiltach D-77761**  
**Germany**
- The examination and test results are recorded in confidential report number:  
**PR461304** dated
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:  
**CSA-C22.2 No. 94.2:2015, CSA-C22.2 No. 60529: R2010, CSA-C22.2 No. 60079-0:2019,**  
**CAN/CSA-C22.2 No. 60079-11:2014, CAN/CSA-C22.2 No. 60079-26:2017,**  
**CAN/CSA-C22.2 No. 61010-1:2012**
- If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

## Certificate issued by:

J.E. Marquedant  
VP, Manager - Electrical Systems

16 May 2022

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmaprovals.com](mailto:information@fmaprovals.com) [www.fmaprovals.com](http://www.fmaprovals.com)

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Canadian Certificate Of Conformity No: FM22CA0026X

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

See Annex

11. The marking of the equipment shall include:

See Annex

12. **Description of Equipment:**

**General** - The VEAGPULS 6X is a radar level gauge in type of protection intrinsic safety. Depending on the model the VEAGPULS 6X is suitable for use in hazardous gas and/or dust atmospheres. The series of the VEAGPULS 6X in general consist of a broad variety of models with different types of enclosures (single and double chamber enclosure), different enclosure materials, different electronics, different antenna types and different types of process connections. In addition there are some more options like sealing material (depending on the process temperature) or cable entry / connection type.

**Construction** - The equipment consists of a single or double chamber enclosure made of Aluminum or 316L Stainless Steel. The enclosure includes one or two threaded covers with an optional display window, as well as a cylindrical hole on the bottom for connection to the sensor antenna. Terminals are provided for field wiring inside the enclosure, with NPT or metric entries for fitting of cable glands or other wiring means suitable in order to maintain the environmental Type and Degree of Protection "IP" ratings. The enclosures are separately FM Approved components for the manufacturer under FM18US0041U and FM18CA0020U. The equipment enclosure contains an encapsulated electronics module in each chamber, along with an optional "PLICSCOM" display. The signal emitted by the electronics is guided within the sensor by either a plastic horn antenna or metal framed lens antenna. The antennae options include threaded types as well as flanges with optional PTFE plating, depending on the application and working pressures as well as applicable industry and area standards and regulations

**Ratings – See document no. 66244 for temperature ratings**

Supply	Material
Supply circuit..... (terminals 1 and 2)	Type of protection Intrinsic Safety Ex ia IIC resp. Ex ia IIC (depending on the model code of the equipment) only for connection to a certified intrinsically safe circuit. Maximum values: Ui = 30 V DC Ii = 131 mA Pi = 983 mW Li = 0 µH Ci = 0 µF
Output circuit..... (terminals 5,6,7 and 8)	Type of protection Intrinsic Safety Ex ia IIC resp. Ex ia IIC (depending on the model code of the

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	equipment) only for connection to the external display unit VEGADIS 81 Maximum values of the connection cable: L <sub>cabl</sub> ≤ 130 µH C <sub>cabl</sub> ≤ 600 nF
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See Annex for model codes

### 13. Specific Conditions of Use:

1. Installation must be carried out in such a way that the generation of sparks as a result of impact and friction processes between Aluminum/Titanium and steel is excluded. This excludes stainless steel without rust particles.
2. Certain components of the radar sensor VEGAPULS 6X can charge electrostatically. These include: Plastic housings, non-grounded metal parts, plastic antennas. For details, refer to chapter " Electrostatic charge (ESD)" of these safety instructions.
3. To avoid the risk of electrostatic charging of metal parts, the VEGAPULS 6X must be connected to the potential equalization (transition resistance ≤ 1 MΩ).
4. All parts of VEGAPULS 6X in contact with the medium must only be used in such a medium against which the materials are sufficiently resistant.
5. VEGAPULS 6X with rinsing connection: It must be ensured that the IP67 degree of protection is provided at the connection to the reflux valve when used as Zone 0/1 equipment. After removing the reflux valve or the rinsing facility on the reflux valve, the opening must be closed with a suitable screw plug so that the IP67 degree of protection is maintained.
6. VEGAPULS 6X with swiveling holder: It must be ensured that the IP67 degree of protection is maintained when operating as Zone 0/1 equipment after aligning the antenna using the swiveling holder and after screwing on the tension flange.

### 14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

### 15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

### 16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
16 <sup>th</sup> May 2022	Original Issue.

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## ANNEX

**VEGAPULS 6X with type code PS6X(\*)**.a-b-c-de-f-g-hi-j-k-l-m-no-p-q-r-s-t-u Level Transmitter

### **Equipment Ratings:**

Intrinsically Safe for use in Class I, Division 1, Groups A, B, C, D;T6 hazardous (classified) locations in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Class I, Zone 0, Ex ia IIC T6 Ga hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Class I, Zone 0/1, Ex ia IIC T6 Ga/Gb hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68

### **Equipment Marking:**

Intrinsically Safe for  
Class I, Division 1, Groups A, B, C, D; T6  
Zone 0, Ex ia IIC T6 Ga;  
Zone 0/1 Ex ia IIC T6 Ga/Gb;  
Type 4X/6P; IP66/67/68  
Ta, T\* = \*See document no. 66244 for ambient temperature ranges

### **Model Code Options**

- a** = Second generation: 2
- b** = application: \*
- c** = Radar technology: W
- de** = Process fitting/Material: XX, XC, XD or \*\*
- f** = Antenna version: B, T, F or C
- g** = Additional equipment: X, K, V or 1
- hi** = Material/Seal/Process temperature: AA, AB, AC, AD, AE, AF, AG, AH, AJ, AK, AL, AL, AT, AU, AV, AW, A4, AX, AY, A5, AZ, A2 or A3
- j** = Housing/Protection: A, H, 3, D, S, 4, V, 5, 8, Z or W
- k** = Cable entry/Connection: D, 1, N, Q or \*
- l** = Display, adjustment or radio module: X, A, F, B, K or L
- m** = Electronics: H or A
- no** = Explosion protection: FC or VC
- p** = Functional safety SIL: X or \*
- q** = IT security (IEC 62443-4-2): X or \*
- r** = Overfill protection: X or \*
- s** = Food / Pharmaceutical certificate: X or \*
- t** = Ship approval: X or \*
- u** = Second Line of Defense: X or S

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**VEGAPULS 6X with type code PS6X(\*)**.a-b-c-de-f-g-hi-j-k-l-m-no-p-q-r-s-t-u Level Transmitter

## **Equipment Ratings:**

Intrinsically Safe for use in Class I, Division 1, Groups A, B, C, D; T6 hazardous (classified) locations in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Class II, III Division 1, Groups E, F, G; T4 hazardous (classified) locations in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Class I, Zone 0, Ex ia IIC T6 Ga hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Class I, Zone 0/1, Ex ia IIC T6 Ga/Gb hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Zone 20, Ex ia IIIC T <sub>200</sub> 102°C Da hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/68
Intrinsically Safe for use in Zone 21, Ex ia IIIC T111°C Db hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Zone 20/21, Ex ia IIIC T*°C Da hazardous (classified) locations, in accordance with installation drawing 66244. Ta, T* = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68

## **Equipment Markings:**

Intrinsically Safe for  
Class I, Division 1, Groups A, B, C, D; T6  
Class II, III, Division 1, Groups E, F, G; T4  
Zone 0, Ex ia IIC T6 Ga;  
Zone 0/1 Ex ia IIC T6 Ga/Gb;  
Zone 20, Ex ia IIIC T<sub>200</sub> 102°C Da;  
Zone 21, Ex ia IIIC T111°C Db  
Zone 20/21, Ex ia IIIC T\*°C Da/Db;  
Type 4X/6P; IP66/67/68  
Ta, T\* = \*See document no. 66244 for ambient temperature ranges

## **Model Codes:**

**a** = Second generation: 2  
**b** = application: \*  
**c** = Radar technology: W  
**de** = Process fitting/Material: XX, XC, XD or \*\*  
**f** = Antenna version: B, T, F or C  
**g** = Additional equipment: X, K, V or 1  
**hi** = Material/Seal/Process temperature: AA, AB, AC, AD, AE, AF, AG, AH, AJ, AK, AL, AL, AT, AU, AV, AW, A4, AX, AY, A5, AZ, A2 or A3  
**j** = Housing/Protection: A, H, D, S, V, or W

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- k** = Cable entry/Connection: D, 1, N, Q or \*
- l** = Display, adjustment or radio module: X, A, F, B, K or L
- m** = Electronics: H or A
- no** = Explosion protection: FH or VH
- p** = Functional safety SIL: X or \*
- q** = IT security (IEC 62443-4-2): X or \*
- r** = Overfill protection: X or \*
- s** = Food / Pharmaceutical certificate: X or \*
- t** = Ship approval: X or \*
- u** = Second Line of Defense: X or S

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# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM22US0038X  
3. **Equipment:** VEGAPULS 6X Series  
**(Type Reference and Name)** Level Transmitters

4. **Name of Listing Company:** Vega Grieshaber KG

5. **Address of Listing Company:** Am Hohenstein 113  
Schiltach D-77761  
Germany

6. The examination and test results are recorded in confidential report number:  
PR461304 dated

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2022, FM Class 3610:2021, FM Class 3810:2021,  
ANSI/UL 60079-0:2020, ANSI/UL 60079-11:2014, ANSI/UL 60079-26:2017,  
ANSI/ISA 61010-1:2012, UL 50E:2015, ANSI/IEC 60529: R2011

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

**Certificate issued by:**

J/E. Marquedant  
VP, Manager - Electrical Systems

16 May 2022  
Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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US Certificate Of Conformity No: FM22US0038X

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

See Annex

11. The marking of the equipment shall include:

See Annex

12. **Description of Equipment:**

**General** - The VEAGPULS 6X is a radar level gauge in type of protection intrinsic safety. Depending on the model the VEAGPULS 6X is suitable for use in hazardous gas and/or dust atmospheres. The series of the VEAGPULS 6X in general consist of a broad variety of models with different types of enclosures (single and double chamber enclosure), different enclosure materials, different electronics, different antenna types and different types of process connections. In addition there are some more options like sealing material (depending on the process temperature) or cable entry / connection type.

**Construction** - The equipment consists of a single or double chamber enclosure made of Aluminum or 316L Stainless Steel. The enclosure includes one or two threaded covers with an optional display window, as well as a cylindrical hole on the bottom for connection to the sensor antenna. Terminals are provided for field wiring inside the enclosure, with NPT or metric entries for fitting of cable glands or other wiring means suitable in order to maintain the environmental Type and Degree of Protection "IP" ratings. The enclosures are separately FM Approved components for the manufacturer under FM18US0041U and FM18CA0020U. The equipment enclosure contains an encapsulated electronics module in each chamber, along with an optional "PLICSCOM" display. The signal emitted by the electronics is guided within the sensor by either a plastic horn antenna or metal framed lens antenna. The antennae options include threaded types as well as flanges with optional PTFE plating, depending on the application and working pressures as well as applicable industry and area standards and regulations

**Ratings – See document no. 66244 for temperature ratings**

Category	Rating
Supply circuit..... (terminals 1 and 2)	Type of protection Intrinsic Safety Ex ia IIC resp. Ex ia IIC (depending on the model code of the equipment) only for connection to a certified intrinsically safe circuit. Maximum values: Ui = 30 V DC Ii = 131 mA Pi = 983 mW Li = 0 µH Ci = 0 µF

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Output circuit..... (terminals 5, 6, 7 and 8)	Type of protection Intrinsic Safety Ex ia IIC resp. Ex ia IIIC (depending on the model code of the equipment) only for connection to the external display unit VEGADIS 81 Maximum values of the connection cable: L <sub>cabl</sub> ≤ 130 µH C <sub>cabl</sub> ≤ 600 nF
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See Annex for model codes

### 13. Specific Conditions of Use:

1. Installation must be carried out in such a way that the generation of sparks as a result of impact and friction processes between Aluminum/Titanium and steel is excluded. This excludes stainless steel without rust particles.
2. Certain components of the radar sensor VEGAPULS 6X can charge electrostatically. These include: Plastic housings, non-grounded metal parts, plastic antennas. For details, refer to chapter "Electrostatic charge (ESD)" of these safety instructions.
3. To avoid the risk of electrostatic charging of metal parts, the VEGAPULS 6X must be connected to the potential equalization (transition resistance ≤ 1 MΩ).
4. All parts of VEGAPULS 6X in contact with the medium must only be used in such a medium against which the materials are sufficiently resistant.
5. VEGAPULS 6X with rinsing connection: It must be ensured that the IP67 degree of protection is provided at the connection to the reflux valve when used as Zone 0/1 equipment. After removing the reflux valve or the rinsing facility on the reflux valve, the opening must be closed with a suitable screw plug so that the IP67 degree of protection is maintained.
6. VEGAPULS 6X with swiveling holder: It must be ensured that the IP67 degree of protection is maintained when operating as Zone 0/1 equipment after aligning the antenna using the swiveling holder and after screwing on the tension flange.

### 14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

### 15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

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US Certificate Of Conformity No: FM22US0038X

## 16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
16 <sup>th</sup> May 2022	Original Issue.

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

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## ANNEX

**VEGAPULS 6X with type code PS6X(\*)-a-b-c-de-f-g-hi-j-k-l-m-no-p-q-r-s-t-u Level Transmitter**

### **Equipment Ratings:**

Intrinsically Safe for use in Class I, Division 1, Groups A, B, C, D; T6 hazardous (classified) locations in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Class I, Zone 0, AEx ia IIC T6 Ga hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Class I, Zone 0/1, AEx ia IIC T6 Ga/Gb hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68

### **Equipment Marking:**

Intrinsically Safe for  
Class I, Division 1, Groups A, B, C, D; T6  
Class I, Zone 0, AEx ia IIC T6 Ga;  
Class I, Zone 0/1 AEx ia IIC T6 Ga/Gb;  
Type 4X/6P; IP66/67/68  
Ta, T\* = \*See document no. 66244 for ambient temperature ranges

### **Model Code Options**

- a** = Second generation: 2
- b** = application: \*
- c** = Radar technology: W
- de** = Process fitting/Material: XX, XC, XD or \*\*
- f** = Antenna version: B, T, F or C
- g** = Additional equipment: X, K, V or 1
- hi** = Material/Seal/Process temperature: AA, AB, AC, AD, AE, AF, AG, AH, AJ, AK, AL, AT, AU, AV, AW, A4, AX, AY, A5, AZ, A2 or A3
- j** = Housing/Protection: A, H, 3, D, S, 4, V, 5, 8, Z or W
- k** = Cable entry/Connection: D, 1, N, Q or \*
- l** = Display, adjustment or radio module: X, A, F, B, K or L
- m** = Electronics: H or A
- no** = Explosion protection: FC or VC
- p** = Functional safety SIL: X or \*
- q** = IT security (IEC 62443-4-2): X or \*
- r** = Overfill protection: X or \*
- s** = Food / Pharmaceutical certificate: X or \*
- t** = Ship approval: X or \*
- u** = Second Line of Defense: X or S

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**VEGAPULS 6X with type code PS6X(\*)a-b-c-de-f-g-hi-j-k-l-m-n-o-p-q-r-s-t-u Level Transmitter**

### Equipment Ratings:

Intrinsically Safe for use in Class I, Division 1, Groups A, B, C, D;T6 hazardous (classified) locations in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Class II, III Division 1, Groups E, F, G;T4 hazardous (classified) locations in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Class I, Zone 0, AEx ia IIC T6 Ga hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Class I, Zone 0/1, AEx ia IIC T6 Ga/Gb hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Zone 20, AEx ia IIIC T <sub>200</sub> 102°C Da hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/68
Intrinsically Safe for use in Zone 21, AEx ia IIIC T111°C Db hazardous (classified) locations, in accordance with installation drawing 66244. Ta = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68
Intrinsically Safe for use in Zone 20/21, AEx ia IIIC T°C Da hazardous (classified) locations, in accordance with installation drawing 66244. Ta, T* = *See document no. 66244 for ambient temperature ranges; Type 4X/6P; IP66/67/68

### Equipment Markings:

Intrinsically Safe for  
Class I, Division 1, Groups A, B, C, D; T6  
Class II, III, Division 1, Groups E, F, G; T4  
Class I, Zone 0, AEx ia IIC T6 Ga;  
Class I, Zone 0/1 AEx ia IIC T6 Ga/Gb;  
Zone 20, AEx ia IIIC T<sub>200</sub> 102°C Da;  
Zone 21, AEx ia IIIC T111°C Db  
Zone 20/21, AEx ia IIIC T°C Da/Db;  
Type 4X/6P; IP66/67/68  
Ta, T\* = \*See document no. 66244 for ambient temperature ranges

### Model Codes:

- a** = Second generation: 2
- b** = application: \*
- c** = Radar technology: W
- de** = Process fitting/Material: XX, XC, XD or \*\*
- f** = Antenna version: B, T, F or C
- g** = Additional equipment: X, K, V or 1

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- hi** = Material/Seal/Process temperature: AA, AB, AC, AD, AE, AF, AG, AH, AJ, AK, AL, AL, AT, AU, AV, AW, A4, AX, AY, A5, AZ, A2 or A3
- j** = Housing/Protection: A, H, D, S, V, or W
- k** = Cable entry/Connection: D, 1, N, Q or \*
- l** = Display, adjustment or radio module: X, A, F, B, K or L
- m** = Electronics: H or A
- no** = Explosion protection: FH or VH
- p** = Functional safety SIL: X or \*
- q** = IT security (IEC 62443-4-2): X or \*
- r** = Overfill protection: X or \*
- s** = Food / Pharmaceutical certificate: X or \*
- t** = Ship approval: X or \*
- u** = Second Line of Defense: X or S

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**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

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