



[1] **EU-Type-Examination Certificate**

[2] Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere – **Directive 2014/34/EU**

[3] **EU-Type-Examination Certificate**

**PTZ 16 ATEX 0011 X**

Rev. 0

[4] **Applicant:** **Buschjost GmbH**

[5] **Address:** Detmolder Str. 256  
32545 Bad Oeynhausen  
**Germany**

[6] **Equipment:** Valve solenoids  
6100...6119; 6120...6139; 6140...6169; 6170...6189; 6190...6199; 6200...6219;  
6220...6239; 6240...6259

[7] This Equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents referred to.

[8] Primara Test- und Zertifizier GmbH, Notified Body No. 2572 in accordance with the Council Directive, dated 26th February 2014 (2014/34/EG), certifies that this equipment has been found to comply with the Essential Health and Safety Requirements related to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the directive. The examination and test results are recorded in the confidential report 16PP238-01.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with to following standards:

**EN 60079-0:2012 + A11:2013**  
**EN 60079-18:2015**

**EN 60079-7:2015**  
**EN 60079-31:2014**

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

[11] This EU-Type-Examination Certificate relates only to the design, examination and tests of specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

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



II 2G Ex eb mb IIC T4 Gb bzw.

II 2 G Ex eb mb IIC T3 Gb

II 2D Ex mb tb IIIB T125°C-135°C Db bzw.

II 2 D Ex mb tb IIIB T135°C-150°C Db

Kaufbeuren, 2017-04-19

**Andreas Aufmuth**  
Certification body

**Horst Haug**  
ATEX department

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EU-type-examination Certificates without signaton and stamp shall not be valid.  
EU-type-examination Certificates may only be reproduced in entirety and without change.  
Extracts or alternations are subject to the Primara Test- und Zertifizier- GmbH.

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**[13] Annex**

**[14] EU-Type-Examination Certificate PTZ 16 ATEX 0011 X**

**[15] Description of the equipment:**

Valve solenoid are used as an electric drive for process valves. The degree of protection is IP64 according to EN 60079-0 and IP65 or IP66 according to EN 60529.

Valve solenoids are available as pulling and pushing variant. The differences between the individual types consist of the various designs of the coils and the resulting shapes and sizes of the respective magnets.

**[16] Technical data:**

Nominal frequency: 40Hz to 60Hz

| Series | Type                  |       | Power<br>[W] | T <sub>Amb</sub> max.<br>[°C] |    | Max. media<br>temperature<br>[°C] | Input voltage [V] |     |    |     | Input current [A]<br>(depending on input voltage) |       |       |       |
|--------|-----------------------|-------|--------------|-------------------------------|----|-----------------------------------|-------------------|-----|----|-----|---------------------------------------------------|-------|-------|-------|
|        | T <sub>Amb</sub> min. |       |              |                               |    |                                   | DC                |     | AC |     | DC                                                |       | AC    |       |
|        | -20°C                 | -40°C |              |                               |    |                                   |                   |     |    |     |                                                   |       |       |       |
| 6100   | 6109                  | 6119  | 5            | T4                            | 60 | 60                                | 12                | 250 | 12 | 250 | 0,020                                             | 0,417 | 0,022 | 0,510 |
|        | 6100                  | 6110  | 8            | T3                            | 60 | 80                                |                   |     |    |     | 0,032                                             | 0,667 | 0,036 | 0,815 |
|        | 6106                  | 6116  | 8            | T4                            | 45 | 80                                |                   |     |    |     | 0,032                                             | 0,667 | 0,036 | 0,815 |
| 6120   | 6129                  | 6139  | 10           | T4                            | 60 | 70                                | 12                | 250 | 12 | 250 | 0,040                                             | 0,833 | 0,045 | 1,019 |
|        | 6123                  | 6133  | 14           | T3                            | 60 | 80                                |                   |     |    |     | 0,056                                             | 1,167 | 0,062 | 1,427 |
|        | 6126                  | 6136  | 14           | T4                            | 40 | 80                                |                   |     |    |     | 0,056                                             | 1,167 | 0,062 | 1,427 |
|        | 6120                  | 6130  | 18           | T3                            | 40 | 80                                |                   |     |    |     | 0,072                                             | 1,500 | 0,080 | 1,835 |
| 6140   | 6149                  | 6159  | 10           | T4                            | 60 | 80                                | 12                | 250 | 12 | 250 | 0,040                                             | 0,833 | 0,045 | 1,019 |
|        | 6143                  | 6153  | 14           | T3                            | 60 | 80                                |                   |     |    |     | 0,056                                             | 1,167 | 0,062 | 1,427 |
|        | 6146                  | 6156  | 14           | T4                            | 50 | 80                                |                   |     |    |     | 0,056                                             | 1,167 | 0,062 | 1,427 |
|        | 6140                  | 6150  | 18           | T3                            | 40 | 80                                |                   |     |    |     | 0,072                                             | 1,500 | 0,080 | 1,835 |
| 6170   | 6179                  | 6189  | 7            | T4                            | 60 | 80                                | 12                | 250 | 12 | 250 | 0,028                                             | 0,583 | 0,031 | 0,713 |
|        | 6173                  | 6183  | 9            | T3                            | 60 | 80                                |                   |     |    |     | 0,036                                             | 0,750 | 0,040 | 0,917 |
|        | 6176                  | 6186  | 9            | T4                            | 50 | 80                                |                   |     |    |     | 0,036                                             | 0,750 | 0,040 | 0,917 |
|        | 6170                  | 6180  | 12           | T3                            | 40 | 80                                |                   |     |    |     | 0,048                                             | 1,000 | 0,054 | 1,223 |
| 6190   | 6199                  | 6198  | 7            | T4                            | 60 | 80                                | 12                | 250 | 12 | 250 | 0,028                                             | 0,583 | 0,031 | 0,713 |
|        | 6193                  | 6194  | 9            | T3                            | 60 | 80                                |                   |     |    |     | 0,036                                             | 0,750 | 0,040 | 0,917 |
|        | 6196                  | 6197  | 9            | T4                            | 45 | 80                                |                   |     |    |     | 0,036                                             | 0,750 | 0,040 | 0,917 |
|        | 6190                  | 6191  | 12           | T3                            | 40 | 80                                |                   |     |    |     | 0,048                                             | 1,000 | 0,054 | 1,223 |
| 6200   | 6209                  | 6219  | 7            | T4                            | 60 | 80                                | 12                | 250 | 12 | 250 | 0,028                                             | 0,583 | 0,031 | 0,713 |
|        | 6203                  | 6213  | 9            | T3                            | 60 | 80                                |                   |     |    |     | 0,036                                             | 0,750 | 0,040 | 0,917 |
|        | 6206                  | 6216  | 9            | T4                            | 45 | 80                                |                   |     |    |     | 0,036                                             | 0,750 | 0,040 | 0,917 |
|        | 6202                  | 6212  | 12           | T3                            | 40 | 80                                |                   |     |    |     | 0,048                                             | 1,000 | 0,054 | 1,223 |
|        | 6200                  | 6210  | 12           | T3                            | 40 | 80                                |                   |     |    |     | 0,048                                             | 1,000 | 0,054 | 1,223 |
| 6220   | 6223                  | 6233  | 14           | T3                            | 60 | 80                                | 12                | 250 | 12 | 250 | 0,056                                             | 1,167 | 0,062 | 1,427 |
|        | 6229                  | 6239  | 14           | T4                            | 60 | 80                                |                   |     |    |     | 0,056                                             | 1,167 | 0,062 | 1,427 |
|        | 6226                  | 6236  | 16           | T4                            | 55 | 80                                |                   |     |    |     | 0,064                                             | 1,333 | 0,071 | 1,631 |
|        | 6220                  | 6230  | 22           | T3                            | 40 | 80                                |                   |     |    |     | 0,088                                             | 1,833 | 0,098 | 2,242 |
| 6240   | 6249                  | 6259  | 23           | T4                            | 60 | 80                                | 12                | 250 | 24 | 250 | 0,092                                             | 1,917 | 0,103 | 1,115 |
|        | 6243                  | 6253  | 29           | T3                            | 60 | 80                                |                   |     |    |     | 0,116                                             | 2,417 | 0,129 | 1,406 |
|        | 6246                  | 6256  | 32           | T4                            | 50 | 80                                |                   |     |    |     | 0,128                                             | 2,667 | 0,143 | 1,552 |
|        | 6240                  | 6250  | 40           | T3                            | 40 | 80                                |                   |     |    |     | 0,160                                             | 3,333 | 0,178 | 1,940 |

**[17] Test report no.:**

16PP238-01

**[18] Special conditions:**

1. The max. ambient and media temperature is defined in the manual and this EU type examination certificate
2. The equipment is to be installed and maintained in a way that eliminates the risk of electrostatic charging.

**[19] Essential Health and Safety Requirements:**

Covered by the standards.