

CERTIFICATE



Italia

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 2014/34/EU**

[3] EU-Type Examination Certificate number:

TÜV IT 16 ATEX 059 X Rev.1

[4] Product:

| | | |
|---------------|-------|---------------------------|
| Cable gland | Type: | A2L **/*-WM, E1** /*/*-WM |
| Adapter | Type: | ADAP**/*-Ex WM |
| Stopping plug | Type: | VP**/*-Ex WM |

[5] Manufacturer: Weidmuller Interface (Shanghai) Co., Ltd.

[6] Address: Zone A, No.63 Factory Building, No.101, Hancheng Road, China (Shanghai)
Pilot Free Trade Zone 200131 P.R. China

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

[8] TÜV Italia, notified body no. 0948 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 report no. R 16 EX 048

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

**EN IEC 60079-0:2018; EN 60079-1:2014
EN IEC 60079-7:2015/A1:2018; EN 60079-31:2014**

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

[11] 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 2G Ex db eb IIC Gb
II 1D Ex ta IIIC Da**

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Issue date: 31st March 2022



PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual
Recognition Agreements



**TÜV Italia S.r.l.
Notified Body N° 0948**

Alberto Carelli

**Industry Service - Real Estate & Infrastructure
Managing Director**

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722117704 + 722282348

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PEX-01-M002_r07 del 29/03/2018

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE
No. TÜV IT 16 ATEX 059 X Rev.1



Certificate History

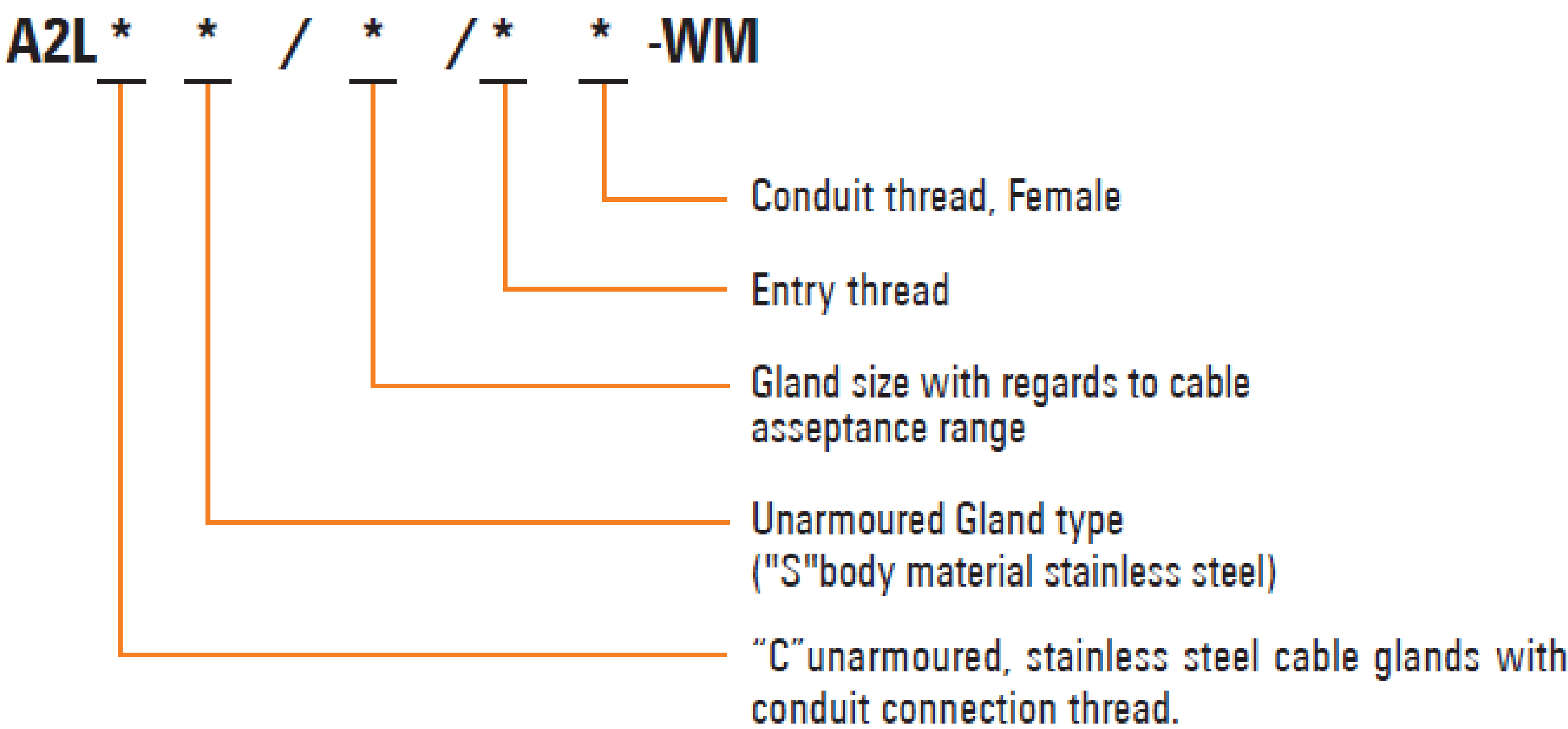
| Revision: | Description: | Report no: | Issue Date: |
|-----------|-------------------------------------|------------|-------------|
| - | First Emission | - | 12/12/2016 |
| 1 | Standard updated Address updated | 1 | 31/03/2022 |

[15] Description of equipment

Cable gland

The ranges of explosion proof cable glands are metallic and are intended to terminate circular armoured, unarmoured and braided cables (as defined by their type designations) into a threaded entry point within associated flameproof (Ex d), increased safety (Ex e) or dust tight enclosures (Ex t) (as defined by their coding). These cable glands include M-, NPT- and G-threads (G-thread are only for conduit connection, no-Ex function). The material of the gland body is HPb59-1 brass, stainless steel 304, stainless steel 304L, stainless steel 316 or stainless steel 316L. According to the type, the cable glands can be realized with a simple sealing or double silicon rubber sealing.

- 1) A2L **/**-WM type cable glands are for outdoor use in the appropriate Hazardous Area with unarmoured. They seal on the outer jacket.
- 2) A2LC **/**-WM type cable glands provide conduit thread connection.



For example: A2LCS/20/M20-M20-WM is unarmoured stainless steel cable glands, with M20 thread for conduit connection, glands size 20.

This report covers the following A2L(S) types:

| GLAND SIZE | ENTRY THREAD SIZE | | |
|------------|-------------------|--------|----------|
| | STANDARD | | OPTIONAL |
| | METRIC | NPT | NPT |
| 16 | M16 | 1/2" | 3/4" |
| 20S | M20 | 1/2" | 3/4" |
| 20 | M20 | 1/2" | 3/4" |
| 25 | M25 | 3/4" | 1" |
| 32 | M32 | 1" | 1-1/4" |
| 40 | M40 | 1-1/4" | 1-1/2" |
| 50S | M50 | 1-1/2" | 2" |
| 50 | M50 | 2" | |
| 63S | M63 | 2" | 2-1/2" |
| 63 | M63 | 2-1/2" | |

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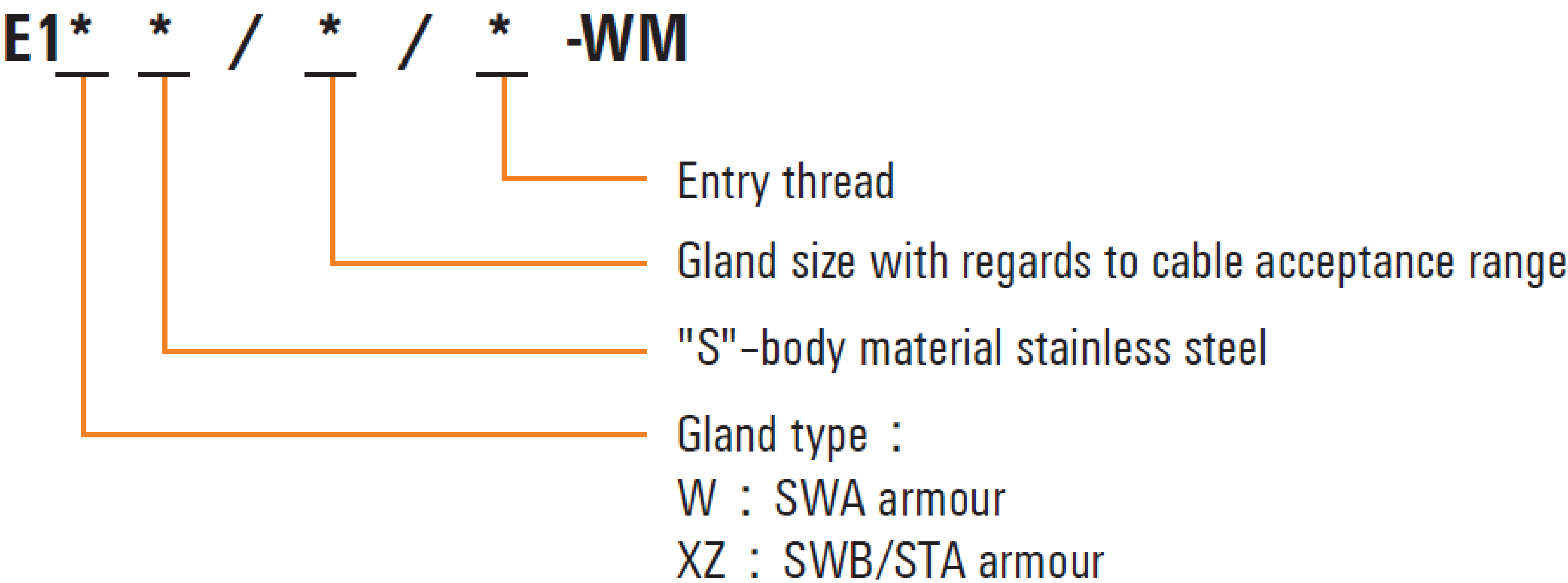
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This report covers the following A2LC(S) types:

| GLAND SIZE | ENTRY THREAD SIZE | | | CONDUIT THREAD SIZE | | |
|------------|-------------------|--------|----------|---------------------|--------|----------|
| | STANDARD | | OPTIONAL | STANDARD | | OPTIONAL |
| | METRIC | NPT | NPT | METRIC | NPT/G | NPT/G |
| 16 | M16 | 1/2" | 3/4" | M20 | 1/2" | 3/4" |
| 20S | M20 | 1/2" | 3/4" | M20 | 1/2" | 3/4" |
| 20 | M20 | 1/2" | 3/4" | M20 | 1/2" | 3/4" |
| 25 | M25 | 3/4" | 1" | M25 | 3/4" | 1" |
| 32 | M32 | 1" | 1-1/4" | M32 | 1" | 1-1/4" |
| 40 | M40 | 1-1/4" | 1-1/2" | M40 | 1-1/4" | 1-1/2" |
| 50S | M50 | 1-1/2" | 2" | M50 | 1-1/2" | 2" |
| 50 | M50 | 2" | | M50 | 2" | |
| 63S | M63 | 2" | 2-1/2" | M63 | 2" | 2-1/2" |
| 63 | M63 | 2-1/2" | | M63 | 2-1/2" | |

- 3) E1** /*/*-WM type cable glands are for outdoor use in the appropriate Hazardous Area with armoured. They seal on the outer jacket and inter jacket.



For example: E1WS/20/M20-WM is stainless steel M20 cable glands for SWA-armored cable, with glands size 20.

This report covers the following E1W(S), E1XZ(S) types:

| GLAND SIZE | ENTRY THREAD SIZE | | |
|------------|-------------------|--------|----------|
| | STANDARD | | OPTIONAL |
| | METRIC | NPT | NPT |
| 16 | M16 | 1/2" | 3/4" |
| 20S | M20 | 1/2" | 3/4" |
| 20 | M20 | 1/2" | 3/4" |
| 25 | M25 | 3/4" | 1" |
| 32 | M32 | 1" | 1-1/4" |
| 40 | M40 | 1-1/4" | 1-1/2" |
| 50S | M50 | 1-1/2" | 2" |
| 50 | M50 | 2" | |
| 63S | M63 | 2" | 2-1/2" |
| 63 | M63 | 2-1/2" | |

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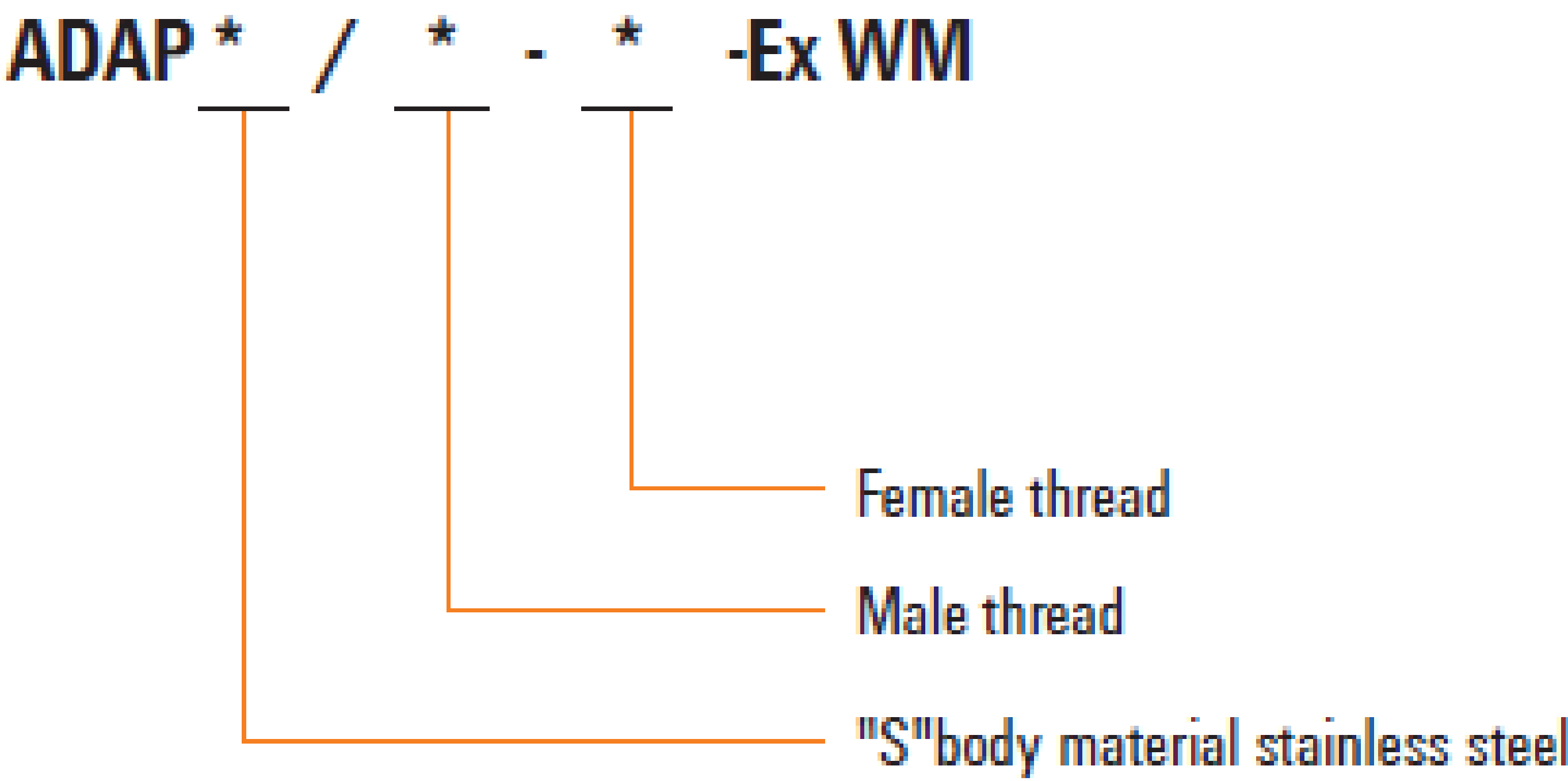
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Adapter

The ranges of adapters have an external male thread and an internal female thread. These adapters include M and NPT threads. The body materials are HPb59-1 brass, stainless steel 304, stainless steel 304L, stainless steel 316 or stainless steel 316L, and are provided with an “O” ring seal.
ADAP*/**-Ex WM adapters are for outdoor use in the appropriate Hazardous Area, providing a method of matching electrical thread forms on Ex equipment while maintaining Flameproof Exd and Increased Safety Exe methods of explosion protection.



For example: ADAPS M20 -NPT ½- WM stainless steel adaptor, with male thread M20 thread to female thread NPT1/2.

This report covers the following ADAP(S) types:

| FEMALE MALE | M16 | M20 | M25 | M32 | M40 | M50 | M63 | 1/2 NPT | 3/4 NPT | 1 NPT | 1- 1/4 NPT | 1- 1/2 NPT | 2 NPT |
|----------------|-----|-----|-----|-----|-----|-----|-----|------------|------------|----------|------------------|------------------|----------|
| M16 | A01 | A01 | | | | | | A01 | A02 | | | | |
| M20 | R01 | A03 | A04 | A05 | | | | A03 | A04 | A05 | | | |
| M25 | R02 | R02 | A06 | A07 | A08 | | | R02 | A06 | A07 | A08 | | |
| M32 | R03 | R03 | R03 | A09 | A10 | A11 | | R03 | R03 | A09 | A10 | A11 | |
| M40 | R04 | R04 | R04 | R04 | A12 | A13 | A14 | R04 | R04 | R04 | A12 | A13 | A14 |
| M50 | R05 | R05 | R05 | R05 | R05 | A15 | A16 | R05 | R05 | R05 | R05 | A15 | A16 |
| M63 | R06 | R06 | R06 | R06 | R06 | R06 | A17 | R06 | R06 | R06 | R06 | R06 | A17 |
| 1/2 NPT | R01 | A03 | A04 | A05 | | | | A03 | A04 | A05 | | | |
| 3/4 NPT | R02 | R02 | A06 | A07 | A08 | | | R02 | A06 | A07 | A08 | | |
| 1NPT | R03 | R03 | R03 | A09 | A10 | A11 | | R03 | R03 | A09 | A10 | A11 | |
| 1-1/4 NPT | R04 | R04 | R04 | R04 | A12 | A13 | A14 | R04 | R04 | R04 | A12 | A13 | A14 |
| 1-1/2 NPT | R07 | R07 | R07 | R07 | R07 | A18 | A19 | R07 | R07 | R07 | R07 | A18 | A19 |
| 2 NPT | R08 | R08 | R08 | R08 | R08 | R08 | A20 | R08 | R08 | R08 | R08 | R08 | A20 |

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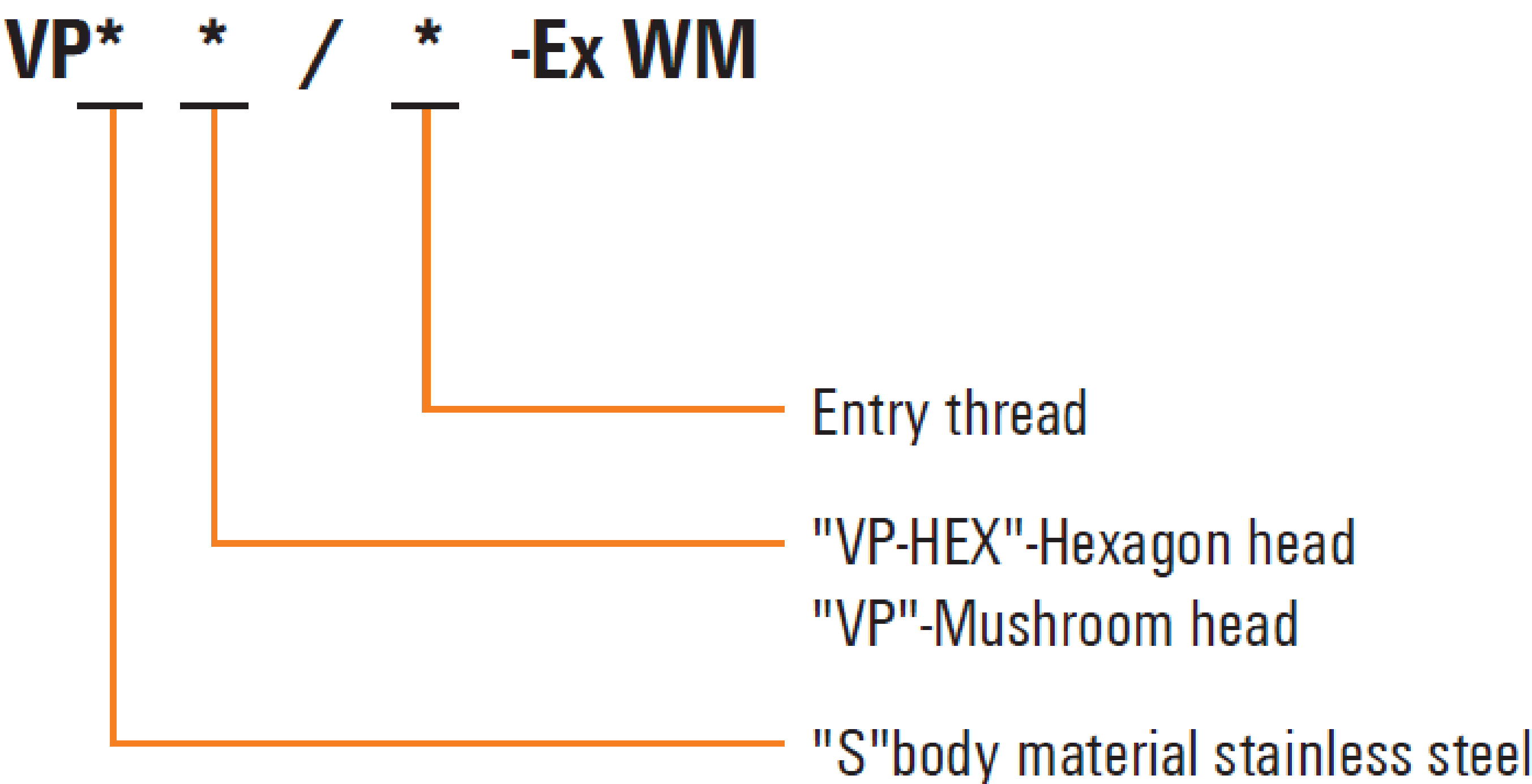
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Stopping plug

The ranges of stopping plug comprise a cylindrical body with an external male thread along its length. These stopping plugs include M and NPT threads .The body material are HPb59-1 brass, stainless steel 304, stainless steel 304L, stainless steel 316 or stainless steel 316L, and are provided with an “O” ring seal except for the plugs in NPT thread.
VP**/*-Ex WM stopping plugs are for outdoor use in the appropriate Hazardous Area, providing a method of filling unused entries in Ex equipment while maintaining Flameproof Exd and Increased Safety Exe methods of explosion protection.



For example: VPS-HEX M20-Ex W hexagon head stainless steel M20 stopping plugs.

This report covers the following VP(S) types:

| THREAD SIZE | HEX SOCKET |
|-------------|------------|
| M16 | M8 |
| M20 | M10 |
| M25 | M10 |
| M32 | M10 |
| M40 | M10 |
| M50 | M10 |
| M63 | M19 |
| 1/2 NPT | M10 |
| 3/4NPT | M10 |
| 1NPT | M10 |
| 1-1/4NPT | M10 |
| 1-1/2NPT | M10 |
| 2NPT | M10 |
| 2-1/2 NPT | M19 |

This report covers the following VP(S) HEX types:

| THREAD SIZE | M16 |
|-------------|-----|
| | M20 |
| | M25 |
| | M32 |
| | M40 |
| | M50 |
| | M63 |

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Rated characteristics

| | |
|---------------------|-----------------------------------|
| Service temperature | -50 +120°C |
| IP | 66 (tested according IEC 60079-0) |

Warning label

N/A

[16] Report no. R 16 EX 48

Routine tests

N/A

[17] Special conditions for safe use

- 1. The equipment shall be installed according to the instruction manual provided by the manufacturer.
- 2. Service temperature: -50 °C to +120°C.
- 3. The cable glands of all the series A2L, A2LC and E1 shall only be used for fixed installations. The installer shall also ensure that the cable is adequately clamped after installation.

[18] Essential Health and Safety Requirements

Assured by compliance with the standards set out in the [9].

[19] Drawings and Documents

Listed documents

| Title: | Description: | Pages: | Rev: | Date: |
|--------|--------------|--------|------|------------|
| 52213 | A2L-WM | 1 | 1 | 15/04/2016 |
| 52214 | A2LC-WM | 1 | 1 | 15/04/2016 |
| 52215 | E1...-WM | 1 | 1 | 15/04/2016 |
| 52216 | ADAP...-WM | 1 | 1 | 15/04/2016 |
| 52217 | VP...-WM | 1 | 1 | 15/04/2016 |
| 52218 | VP-HEX...-WM | 1 | 1 | 15/04/2016 |

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| | | | | |
|------------------------------------|---|---|---|------------|
| 64113 | Ex A2L-BODY METRIC WM | 1 | 0 | 15/04/2016 |
| 64114 | Ex A2L-BODY NPT WM | 1 | 0 | 15/04/2016 |
| 64115 | Ex A2L-NUT WM | 1 | 0 | 15/04/2016 |
| 64116 | Ex A2LC-CONDUIT METRIC WM | 1 | 0 | 15/04/2016 |
| 64117 | Ex A2LC-CONDUIT NPT WM | 1 | 0 | 15/04/2016 |
| 64118 | Ex E1...-BODY METRIC WM | 1 | 0 | 15/04/2016 |
| 64119 | Ex E1...-BODY NPT WM | 1 | 0 | 15/04/2016 |
| 64120 | Ex E1...-MIDDLE NUT WM | 1 | 0 | 15/04/2016 |
| 64121 | Ex E1...-BACK NUT WM | 1 | 0 | 15/04/2016 |
| 64122 | Ex E1...-CONE WM | 1 | 0 | 15/04/2016 |
| 64123 | Ex E1W...-CLAMPING RING WM | 1 | 0 | 15/04/2016 |
| 64283 | Ex E1XZ...-CLAMPING RING WM | 1 | 0 | 15/04/2016 |
| 64124 | Ex INNER SEALING WM | 1 | 0 | 15/04/2016 |
| 64125 | Ex OUTER SEALING WM | 1 | 0 | 15/04/2016 |
| 47586 | Ex O-RING WM | 1 | 1 | 15/04/2016 |
| 64140 | Ex MARKING WM | 1 | 1 | 26/11/2020 |
| - | A2L-WM INSTALLATION INSTRUCTIONS | 2 | 2 | 11/2021 |
| - | A2LC-WM INSTALLATION INSTRUCTIONS | 2 | 2 | 06/2021 |
| - | E1...-WM INSTALLATION INSTRUCTIONS | 2 | 2 | 06/2021 |
| - | ADAP...-WM INSTALLATION INSTRUCTIONS | 2 | 2 | 06/2021 |
| - | VP...-WM INSTALLATION INSTRUCTIONS | 2 | 2 | 06/2021 |
| - | DATASHEET OF Sealing ring (RED SILICON RS70) | - | 2 | - |
| - | DATASHEET OF O-RING (RED SILICONE S7001R) | - | 1 | - |
| DE PS2686 220126001 ISS00 | DoC (Draft version) | - | 1 | 26/11/2022 |

One copy of all documents is kept in TÜV Italia files.

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