



(1) **Supplementary EU - Type Examination Certificate No.5**

(2) **Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 05 ATEX 0115U

(4) Product: **Universal two-compartments instrument housing type XD-ID80, XD-ID80win**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

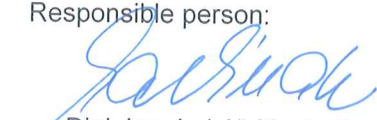
- (7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 05 ATEX 0115U to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, 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.
- (9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.
- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014
- (11) The marking of the product shall include the following:



**II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db**

(12) This certificate is valid till: **31.05.2024**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 30.05.2019

Page: 1/2

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**Physical-Technical Testing Institute
Ostrava - Radvanice**

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 5
to FTZÚ 05 ATEX 0115U**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Evaluation according to the newest standards;
- Prolongation of certificate validity.

The design of empty enclosure with type of Ex-protection Ex db and Ex tb was unchanged.

The enclosure is recertified according to the standards EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-31:2014.

(16) Report Number.: 05/0115/5

(17) Schedule of Limitations:

1. The maximum number, size and position of threaded entries – see the application manual - document nr. N-L2643 dated 19.03.2019.
2. A service temperature range according to model:
 - XD-ID80: -40°C to +100°C,
 - XD-ID80win: -40°C to +85°C.
3. The empty enclosure can be used for electrical equipment designed for ambient temperatures not exceed range -40°C to +85°C.
4. An apparatus installed inside of the empty enclosure can has any lay-out, which ensures, that in any cross-section area will be at least 40% of area free.
5. A circuit breakers or contactors containing oil filling are not allowed to be installed inside of the empty enclosure.
6. The empty enclosure shall be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
7. The enclosure was verified by over pressure static test 55 bars / 10 s. The measured maximum reference pressure was 11 bars.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

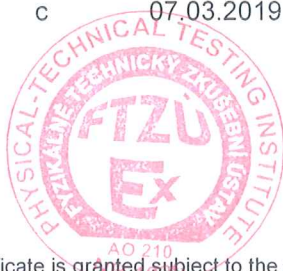
Number	Sheets	Issue	Date	Description
N-L2643	8	--	19.03.2019	Application manual
--	2	--	07.03.2019	Datasheet XD-ID80
1-Z-L2463	1	c	07.03.2019	Drawing XD-ID80
1-Z-L2464	1	c	07.03.2019	Drawing XD-ID80win

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body

Date of issue: 30.05.2019

Page: 2/2



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**Supplement No. 4 to
EC-Type Examination Certificate**

(1)

(2)

**Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 94/9/EC)**

(3) EC-Type Examination Certificate Number:

FTZÚ 05 ATEX 0115U

(4) Component: **Universal two-compartments instrument housing model XD-ID80, XD-ID80win**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **Ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - prolongation of certificate validity
- modification of certified apparatus

(8) Modification of certified component and any of its approved variants are specified in documentation, a list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfilled by satisfying of the following standards:

EN 60079-0:2009; EN 60079-1:2007; EN 60079-31:2009

(11) Marking of component shall contain symbols:

 **II 2G Ex d IIC Gb**

 **II 2D Ex tb IIC Db**

(12) This type examination certificate is valid till: **02.07.2018**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 02.07.2013

Page: 1/2

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**Physical Technical Testing Institute
Ostrava – Radvanice**

(13)

Schedule

(14)

**Supplement No. 4 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0115U**

(15) Description of Component:

The subject of this supplement No.4 is a modification of the device and prolongation according to the newest standards. Changes do not affect to the flameproof properties.

(16) Report No.: 05/0115-4

2 pages

(17) Schedule of Limitations:

17.1 The special conditions described in main document and the supplements No.1 ÷ No. 3 valid in all whole range.

17.2 Verified values of the maximum gaps and minimum constructional length of flameproof joints of this enclosure are different from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10) of this supplement.

(19) List of Documentation:

Title:	Drawing No.:	Date:
Application manual	N-L2643	20.08.2012
Data sheet	XD-ID80	20.08.2012
XD-ID80	1-Z-L2463	14.08.2012 - rev. b
XD-ID80win	1-Z-L2461	14.08.2012 - rev. b

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 02.07.2013

Page: 2/2

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Physical Technical Testing Institute
Ostrava-Radvanice



(1) **Supplement No. 3 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 05 ATEX 0115U

(4) Equipment or protective system: **Model XD-ID80, XD-ID80win, XD-ID80(M36x2), XD-ID80win (M36x2)
universal two-compartments instrument housing**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - prolongation of certificate validity and certification
according to the new harmonized standards

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in
documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and
construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC.
The Directive contains another requirements, which manufacturer shall fulfil before products are
place on market or introduce in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

EN 60079-0:2006; EN 60079-1:2004; EN 61241-0:2006; EN 61241-1:2004

(11) Marking of equipment shall contain symbols:

 **II 2GD Ex d tD IIC**

(12) This type examination certificate is valid till: **31.08.2012**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 22.08.2007

Number of pages: 3
Page: 1/3

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 3 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0115U**

(15) Description of Equipment or Protective System:

The enclosure was recertified based on EN 60079-0, EN 60079-1, EN 61241-0 and EN 61241-1.

The overpressure test was made acc. cl. 15.3.1 of the standard EN 60079-1 by overpressure 55 bar (the requirement on the overpressure test made on each piece of the enclosure is canceled).

(16) Report No. : 05/0115-D3

(17) Special conditions for safe use:

17.1 The special conditions described in main document and the supplements No. 1 and 2 are valid in whole range.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10).

Any relevant tests are not necessary to execute according to successional standard EN 60079-0, EN 60079-1, EN 61241-0 and EN 61241-1 as that were made acc. standard EN 50 014, EN 50 018 and EN 50281-1-1.

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 22.08.2007

Page: 2/3

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)


**Supplement No. 3 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0115U**

(19)

LIST OF DOCUMENTATION

- Application manual No.: N-L2643 dated 26.06.2007
- Drawings No.:
 - 1-Z-L2463 dated 17.06.2005, rev. „a“, dated 06.2007
 - 1-Z-L2464 dated 17.06.2005, rev. „a“, dated 06.2007
 - 1-Z-L3342 dated 09.02.2006, rev. „a“, dated 06.2007
 - 1-Z-L3343 dated 09.02.2006, rev. „a“, dated 06.2007
 - 1-Z-L3339 dated 25.05.2006, rev. „a“, dated 06.2007
 - 1-Z-L3340 dated 25.05.2006, rev. „a“, dated 06.2007
 - 4- L2594 dated 04.08.2004, rev. „a“, dated 06.2007
- Catalogue sheets: Two-compartments instrument housing – type XD-ID80
 - Two-compartments instrument housing – type XD-ID80win
 - Two-compartments instrument housing – type XD-ID80(M36x2)
 - Two-compartments instrument housing – type XD-ID80win(M36x2)

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 22.08.2007

Page: 3/3

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**Supplement No. 2 to
EC-Type Examination Certificate**

(1)

(2)

Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate Number:

FTZÚ 05 ATEX 0115U

(4) Equipment:

**Model XD-ID80, XD-ID80win,
universal two-compartments instrument housing**

(5) Manufacturer:

Limatherm, Sp. z o.o.

(6) Address:

ul. Tarnowska 1, 34-600 Limanowa, Poland

(7) This supplement of certificate is valid for: - modification of certified apparatus

(8) Modification of certified component and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfilled by satisfying of following standards:

EN 50014:1997+A1+A2

EN 50018:2000

EN 50281-1-1:1998

(11) Marking of equipment shall contain symbols:



II 2GD EEx d IIC

(12) This type examination certificate is valid till: **30 November 2009**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 20.07.2006

Number of pages: 3
Page: 1/3

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0115U**

(15) Description of variation to the Equipment:

There on the enclosure of the instrument housing is on a part with diameter D1 (sensor output) used outer thread M 36x2.

Alternatively is used a high cover (modification XD-ID80H or XD-ID80Hwin).

(16) Report No. : 05/0115, changes on pages 5 and 6

(17) Special conditions for safe use:

17.1 The special conditions described in main document are valid in whole range.

17.2 Max. dissipation power for temperature class are as follow:

Max. power dissipation (W)				
T _{amb}	Temperature class T6 85°C	Pztr (W)	Temperature class T5 100°C	Pztr (W)
		For all variety of enclosures position horizontally/vertically		For all variety of enclosures position horizontally/vertically
40°C	Δ 0≤40 K	22/17	Δ 0≤55 K	32/26
55°C	Δ 0≤25 K	13/10	Δ 0≤40 K	22/17
70°C	Δ 0≤10 K	4,5/3,5	Δ 0≤25 K	13/10
85°C	N.A.	--	Δ 0≤10 K	4,5/3,5

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 20.07.2006

Number of pages: 3

Page: 2/3

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

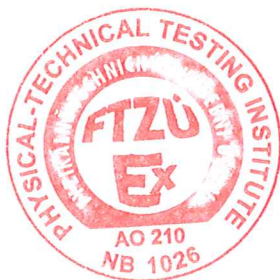
(14)

**Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0115U**

(19)

LIST OF DOCUMENTATION

- | | | |
|-------------------------|---------------|------------|
| ➤ Operating instruction | | 14.07.2006 |
| ➤ Drawings No.: | 1 – Z – L3438 | 25.05.2006 |
| | 1 – Z – L3439 | 25.05.2006 |
| | 1 – Z – L3440 | 25.05.2006 |





Physical Technical Testing Institute
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Supplement No. 1 to EC-Type Examination Certificate

Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate Number:

FTZÚ 05 ATEX 0115U

(4) Equipment: **Model XD-ID80, XD-ID80win,
universal two-compartments instrument housing**

(5) Manufacturer: **Limatherm, Sp. z o.o.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - modification of certified apparatus

(8) Modification of certified component and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfilled by satisfying of following standards:

EN 50014:1997+A1+A2

EN 50018:2000

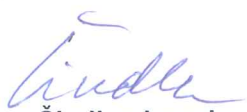
EN 50281-1-1:1998

(11) Marking of equipment shall contain symbols:

 **II 2GD EEx d IIC**

(12) This type examination certificate is valid till: **31 July 2010**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 10.03.2006

Number of pages: 2
Page: 1/2

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**Physical Technical Testing Institute
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(13)

Schedule

(14)

**Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0115U**

(15) Description of variation to the Equipment:

- The drawings with more details were filled in the documentation.
- The housing is alternatively tested as one room (without flameproof wire bushing)
- Also the thickness of the window has been increased to 10 mm.

(16) Report No. : 05/0115, changes on page 5

(17) Special conditions for safe use:

The special conditions described in main document are valid in whole range.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10) of this supplement.

(19) LIST OF DOCUMENTATION

➤ Drawings No.:	2 – Z – L2463	17.06.2005
	2 – Z – L2464	17.06.2005
	1 – Z – L3342	09.02.2006
	1 – Z – L3343	09.02.2006

Responsible person:


Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 10.03.2006

Number of pages: 2

Page: 2/2

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Physical Technical Testing Institute
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EC-Type Examination Certificate

(1)

(2)

Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate Number:

FTZÚ 05 ATEX 0115 U

(4) Component: **Model XD-ID80, XD-ID80win, universal two-compartments instrument housing**

(5) Manufacturer: **Limatherm, Sp. z o.o.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This Component and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

05/0115 dated June 2005

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 50014:1997+A1+A2

EN 50018:2000

EN 50281-1-1:1998

The sign „U” placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(10) This EC-TYPE EXAMINATION CERTIFICATE relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(11) The marking of the component shall include following:



II 2GD EEx d IIC

This EC-Type Examination Certificate is valid till: **31 June 2010**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 29 June 2005

Number of pages: 1/4

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0115 U**

(15) Description of Component:

Universal two-compartments instrument housing is intended to accommodate different electronics devices for working in hazardous areas with flammable gases, vapours and dusts.

The body and covers of the enclosure are made of aluminium pressure die-casting (Mg<6%).

The covers are locked by screws with hex socket using hex spanner.

The covers are fixed to the body by thread M80x1,5. Each cover is sealed by "O" ring.

The cover is alternatively designed with inspection window made of floated glass.

The earth terminals are placed inside and outside of the body of enclosure.

The threaded holes for flameproof cable gland are prepared on the body of enclosure and can have parallel type threads: **M...**, **G...**, **BSP...** or taper threads type: **Rc...mod**, **BSPT...mod**, **...NPTmod**.

The threaded hole are prepared in the body for thermowell or sensor, and can have parallel threads type **M...**, **G...**, **BSP...** or taper threads type: **Rc...mod**, **BSPT...mod**, **...NPTmod**.

The taper NPT and Rc threads are executed in openings under cable glands or sensors with modification to meet simultaneously standards IEC 60079-1, EN 50018, CSA C22.2No.5 and FM 3615.

The unused holes can be blinded with a certified stopping plug.

The both compartments are electrically connected with ATEX certified wire bushing.

In cover designed for housing type XD-ID80 and XD-ID80win there is possible to make a caution inscription in free additional languages: german, italian, spanish etc. There is also possibility to make a logo according to personal requirements of clients.

The enclosure is coated by chemically resistant paint.

(16) Report No. : 05/0115

(17) Schedule of Limitations:

17.1 -40°C < Tserv > 100°C for XD-ID80

17.2 -40°C < Tserv > 85°C for XD-ID80

17.3 IP protection 66 ÷ 68 – is depend on applied cable gland.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (9) of this certificate.

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 29 June 200

Number of pages: 2/4

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**Physical Technical Testing Institute
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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0115U**

(19)

LIST OF DOCUMENTATION

- Application manual N-L2643 dated 09.09.2004
- Catalogue sheets: EEx d two-compartments instrument housing type XD-ID80
EEx d two-compartments instrument housing type XD-ID80win
- Drawings N°: 1-Z-L2463 dated 19.04.2005
1-Z-L2464 dated 19.04.2005

Documentation archived by certification No. 03 ATEX 0207U:

- Aluminium specification
- Resistance of paint coatings to aggressive chemical agents and environment
- Earth terminals, protection terminals
- Seal rubber specification
- Taper threads for explosionproof/flameproof openings
- Silicone rubber specification R701/40-R701/80
- Silicone encapsulant "Sylgard 567" specification
- Condition for testing of in instrument housing of protection against continuous submersion in water – IP 68





Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 05 ATEX 0115U

(20)

TYPE KEY

XD – ID80 - . - .. / .. - .. / .. - .. / .. - . .

TYPE OF INSTRUMENT
HOUSING

SYMBOL OF ELEMENTS / SEALS MATERIAL
2 = M+S
4 = N+S

SYMBOL OF CONDUIT THREAD D_3 - D_2

M2 = M20x1,5
M24 = M24x1,5
M25 = M25x1.5
G2 = G $\frac{1}{2}$, BSP $\frac{1}{2}$
G3 = G $\frac{3}{4}$, BSP $\frac{3}{4}$
R2 = Rc $\frac{1}{2}$ mod, BSPT $\frac{1}{2}$ mod – modified ac. to OIT-17/03
R3 = Rc $\frac{3}{4}$ mod, BSPT $\frac{3}{4}$ mod – modified ac. to OIT-17/03
N2 = $\frac{1}{2}$ NPT mod – modified ac. to OIT-17/03
N3 = $\frac{3}{4}$ NPT mod – modified ac. to OIT-17/03
PD = plugged

Notice:

Type: "size of thread / PD" if thread is plugged ex. M2/PD,etc.

SYMBOL OF PROCESS THREAD D_1

M2 = M20x1,5
M24 = M24x1.5
M25 = M25x1.5
M27 = M27x2
G2 = G $\frac{1}{2}$, BSP $\frac{1}{2}$
G3 = G $\frac{3}{4}$, BSP $\frac{3}{4}$
R2 = Rc $\frac{1}{2}$ mod, BSPT $\frac{1}{2}$ mod – modified ac. to OIT-17/03
R3 = Rc $\frac{3}{4}$ mod, BSPT $\frac{3}{4}$ mod – modified ac. to OIT-17/03
N2 = $\frac{1}{2}$ NPT mod – modified ac. to OIT-17/03
N3 = $\frac{3}{4}$ NPT mod – modified ac. to OIT-17/03
PD = plugged

Notice:

Type: "size of thread / PD" if thread is plugged ex. M2/PD,etc.

SYMBOL OF PAINT TYPE:: SE – SPRAY EPOXY, C – CREODUR
SPU – SPRAY POLYURETHANE (on SE layer)

SYMBOL OF PAINT COLOUR :

al = ALU NATURAL COLOUR; yc = RAL 1007 – YELLOW-CHROMIC; ys = RAL 1003 – YELLOW- SIGNALLING;
bs = RAL 5005 BLUE SIGNALLING; sb = RAL 5015 SKY-BLUE; sg = RAL 7032 SILICON GREY; gr = RAL 7035 GREY;
ag = RAL 9002 ASHEN GREY-WHITE; sh =RAL 9006 SHINE; gs = RAL 9007 GREY-SILVER;
cw = RAL 9010 CREAM-WHITE (for more details see technical information)

