

[1]

**EU-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment and Protective System intended for use in potentially explosive atmospheres**  
**Directive 2014/34/EU – Annex III**

[3] Certificate Number: **EPT 17 ATEX 2703 X** Issue 1

[4] Equipment: **Submersible electropumps**  
Series: **AT-Ex, ATH-Ex, VT-Ex, VTH-Ex**  
Sizes: **200 - 240**

[5] Manufacturer: **DRENO POMPE S.r.l.**

[6] Address: **Via Umbria n° 15, 35043 Monselice (PD) - Italia**

[7] This equipment and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in the confidential Report N° EPT.18.REL.03/55874


[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the standards:

**EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 80079-36:2016, EN 80079-37:2016**

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

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.

Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

[12] The equipment shall include the sign  and the following strings:

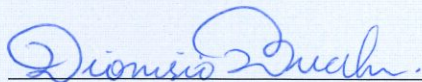
**II 2G**

**Ex db IIB T4 Gb**

**Ex h IIB T4 Gb**

**0°C ≤ T<sub>a</sub> ≤ +40°C**

Place and date of issue:  
**Torino, 2018-03-30**



Dionisio Bucchieri  
Directive Responsible



Paolo Trisoglio  
Managing Director



**PRD N° 119B**

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
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This Certificate has 4 pages and it is reproducible only in its entirety. Conditions of validity are reported below.



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**ANNEX**

[14]

**EU-TYPE EXAMINATION CERTIFICATE N. EPT 17 ATEX 2703 X**

Issue 1

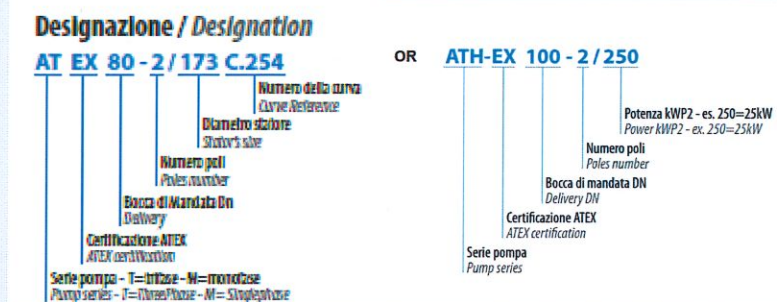

**[15] Equipment description**

The submersible electropumps belong to group IIB and have respectively the type of protection "Ex d" and "h" (immersion in liquid).

The enclosure is made of cast iron GG 25 (the paint used does not exceed 2 mm).

The motors are equipped with auxiliary devices ( thermal protectors).

The electropumps are identified by a code as follows:


**Electrical characteristics**
**Mains Supply**

Rated supply: 400 V (Supply voltage must be within  $\pm 5\%$  of the nominal value)

Rated power: 12 kW to 42 kW

Rated frequency: 50 Hz

Insulation class: F (155°C)

Degree of protection: IP 68

Maximum immersion depth: 20 m

Ambient temperature:  $0 \div +40^\circ\text{C}$

Temperature of the pumped liquid:  $0 \div +40^\circ\text{C}$

Temperature class: T4

**Cable entries**

The cable entries, integrated in motor body, are part of this certification.

**Warning label**

None


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Issue 1


List of submersible electropumps:

ATH 2 poles (motor diameter 200)	VTH 2 poles (motor diameter 200)
ATH-EX 80-2/120	VTH-EX 80-2/120
ATH-EX 80-2/150	VTH-EX 80-2/150
ATH-EX 100-2/120	VTH-EX 100-2/150
ATH-EX 100-2/150	VTH 2 poles (motor diameter 240)
ATH 2 poles (motor diameter 240)	VTH-EX 80-2/200
ATH-EX 80-2/200	VTH-EX 80-2/250
ATH-EX 80-2/250	VTH-EX 100-2/200
ATH-EX 80-2/300	VTH-EX 100-2/250
ATH-EX 100-2/200	VTH-EX 100-2/300
ATH-EX 100-2/250	VTH-EX 100-2/350
ATH-EX 100-2/350	VTH-EX 100-2/400
ATH-EX 100-2/400	VTH-EX 100-2/400-1
ATH-EX 100-2/420	VTH-EX 100-2/400-2
AT 4 poles (motor diameter 200)	VT 4 poles (motor diameter 200)
AT-EX 150/4/200 C.260-263	VT-EX 100/4/200 C.362-363
AT-EX 150/4/200 C.264-265	VT 4 poles (motor diameter 240)
AT-EX 200/4/200 C.265	VT-EX 100/4/240 C.370-375-380
AT 4 poles (motor diameter 240)	
AT-EX 150/4/240 C.275-280	
AT-EX 200/4/240 C.270-275-280	
AT 6 poles (motor diameter 240)	
AT-EX 200/6/240 C.275-280	

**Routine test**

Routine tests are not required because the enclosures have passed the overpressure test with a static pressure equal to 4 times reference pressure.

[16] **Assessment Report n° EPT.18.REL.03/55874**

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this Certificate; performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] **Special condition for a safe use**

- The determination of the maximum surface temperature has been determined on operation within "Zone A" (IEC 60034-1),  $\pm 5\%$  of rated voltage.
- The submersible pump must operate only completely submersed. A suitable separate protection device shall be installed to prevent the pump from operating when not fully submersed.
- Flameproof joints cannot be repaired.
- Use screws with property class A2-70

[18] **Essential Health and Safety Requirements**

Assured by compliance with harmonized standards.



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Issue 1


[19] **Descriptive documents**

The equipment objects of this Certificate is described by the following documents.  
Scheduled documents are indicated with the symbol "✓". They cannot be modified without the explicit authorization of the Notified Body.

Document	Name	Rev.	Date	Scheduled
Marking Label	IQ.D.14	5	2017-09-01	✓
Painting instructions	Catena di verniciatura	4	2011-06-29	✓
Fasteners Series 200	Viti-fori-filettature_200	0	2014-11-19	✓
Fasteners Series 240	Viti-fori-filettature_240	0	2014-11-19	✓
Cable gland technical drawing	33808091	1	2014-04-16	✓
Cable gland technical drawing	06405220	0	2013-11-15	✓
Cable gland technical drawing	06405240	0	2013-11-15	✓
Sealing ring technical drawing	07310190	0	2013-09-05	✓
Sealing ring technical drawing	07310200	0	2001-03-09	✓
Lower body technical drawing	33607231	7	2015-01-29	✓
Lower body technical drawing	33608041	9	2015-01-15	✓
Upper body technical drawing	31007220	0	2008-11-25	✓
Upper body technical drawing	31008520	0	2013-09-03	✓
Upper body technical drawing	31008020	0	2008-12-12	✓
Shaft technical drawing	30107782	3	2014-08-28	✓
Shaft technical drawing	30108880	2	2008-02-04	✓
Shaft technical drawing	30108580	3	2014-11-24	✓
Technical drawing	33408010	2	2008-06-13	✓
Manual for use and maintenance	Sp1_0.18- 09800210	1	2017-12-15	✓

[20] **Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the 2014/34/EU Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] **Certificate History**

Issue	Description	Issue date
0	First emission, replacement of the EC-TYPE EXAMINATION CERTIFICATE n. EUT 14 ATEX 1889X	2017-09-06
1	Addition of new rated powers for 4 poles and 6 poles equipment.	2018-03-30


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End of Certificate