

Use and Maintenance Manual Enclosures series QL – QLP – DS For environments with Potentially Explosive Atmospheres Directive (2014/34/UE)

Scheme IECEX

Rev.13 - 14.09.2022



for Potentially Explosive Atmospheres (Directive 2014/34/UE)

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

1. FIELD OF APPLICATION

This Manual applies to protective enclosures, made of stainless steel,

the series QL and QLP, designed to work in areas (1 - 21 - 2 - 22) and

the series DS, designed to work in areas (20 - 1 - 21 - 2 - 22)

in the presence of gas group **IIc** and/or powders group **IIIc**, in compliance with Directive 2014-34-UE and the scheme IECEX The enclosures have NO see-through sections.

The series QL, QLP, have the following maximum sizes: Width (W) x Height (H) x Depth (D) (800 x 1.600 x 400)

The series DS, have the following maximum sizes: Width (W) x Height (H) x Depth (D) (750 x 600 x 400)

The enclosures are merely components, i.e. a part of electric systems NOT intended to be used on its own and which requires additional consideration when it is included in an electric construction or in a system for use in explosive atmospheres.

2. TERMS AND DEFINITIONS

Group

Electric construction for gassy mines

Group I

Electric construction for places with potentially explosive atmosphere, other than the gassy mines.

CATEGORY

Classification according to the protection degree required.

ZONE

Dangerous place where hazardous explosive atmosphere can be present. The areas differ depending on the frequency and duration of the presence of the hazardous explosive atmosphere.

ZONE 1

Place where the explosive atmosphere, formed by a mixture of air and flammable materials in the form of gas, vapour or mist might be present from time

ZONE 2

Place where the explosive atmosphere, formed by a mixture of air and flammable materials in the form of gas, vapour or mist may be present during routine working but which, when present, lasts just a while.

ZONE 20

Place where an explosive atmosphere is present in the form of a cloud of combustible powders in the air, either continuously, or for extended times, or frequently.

ZONE 21

Place where an explosive atmosphere, in the form of a cloud of airborne combustible powders can be present from time to time during routine working.

ZONE 22

Place where an explosive atmosphere is not likely to take place, in the form of a cloud of combustible powders in the air, during regular operation and, if it forms, it lasts only for a short time.

A link exists between zone and Category, as follows:

Zone 20 Category 1D Zone 21 Category 2D Zone 22 Category 3D Zone 1 Category 2G Zone 2 Category 3G



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PROTECTION LEVEL (EPL)

Protection level assigned to a device or component based on its probability of becoming an ignition source, and distinctive of the differences between explosive gas atmospheres, explosive dust atmospheres, and explosive atmospheres in grisoutose mines.

EPL Gb

Equipment or component for use in explosive atmospheres due to the presence of gas, with a "high" level of protection, which is not a source of ignition during normal operation or during expected malfunctions

EPL Gc

Equipment or component suitable for use in explosive atmospheres due to the presence of gas, with an "increased" level of protection, which is not a source of ignition during normal operation and which has some additional protective measures to ensure that it remains a ignition source not active in case of regularly expected events (for example due to a lamp failure)

EPL Da

Equipment or component suitable for explosive atmospheres due to the presence of combustible dusts, which presents a "very high" level of protection, which does not constitute a source of ignition in normal operation, during expected malfunctions, or when subjected to rare malfunctions

EPL Db

Equipment or component suitable for explosive atmospheres due to the presence of combustible dusts, which presents a "high" level of protection, which does not constitute a source of ignition in normal operation or when subjected to foreseen faults

EPL Dc

Equipment or component suitable for explosive atmospheres due to the presence of dust, with an "increased" level of protection, which does not constitute a source of ignition during normal operation and which may have additional protections to ensure that it remains an ignition source inactive in the case of events expected regularly (for example the failure of a lamp).

3. IDENTIFICATION

The **STANDARD** enclosures are identified in the catalogue by codes, having the following meaning:

item	Туре	Sizes	Gasket material	Enclosure material	Notes
QL /304-EX			Foamed polyurethane	Inox 304	
QL S/304-EX			Foamed silicone	Inox 304	EX Fit for zones
QL /316-EX	Type of		Foamed polyurethane	Inox 316L	atex
QL S/316-EX	enclosure	Identifies the	Foamed silicone	Inox 316L	1 – 2
QLPEX	QL or QLP	container	Foamed polyurethane	Inox 304	21 – 22 EPL Gb or Db
QLP S-EX			Foamed silicone	Inox 304	
DS /304-EX	_ ,		Foamed polyurethane	lnox 304	EX
DS S/304-EX	Type of enclosure		Foamed silicone	lnox 304	Fit for zones atex
DS /316-EX	DS	Identifies the container	Foamed polyurethane	lnox 316L	1 – 2 20 – 21 – 22
DS S/316-EX	50	Container	Foamed silicone	lnox 316L	EPL Gb or Da
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The SPECIAL enclosures are identified by codes, having the following meaning:

Item	Туре	Sizes	Numbering	Notes
QLEX	Type of enclosure	Special sizes not	identifies the number	EX Fit for zones atex
QLPEX	identified by the code		of the reference assembly drawing	1 – 2 21 – 22 EPL Gb or Db
QLEX	Type of enclosure	Special sizes not identified by the code	identifies the number of the reference assembly drawing	EX Fit for zones atex 1 - 2 20 - 21 - 22 EPL Gb or Da

Further information including the gasket material and the enclosure material can be obtained directly from the drawing or from p/o confirmation.

4. MARKING

Label for QL – QLP

(Item-code)

Il 2 GD IP66

Il 2 GD IP66

IECEX EUT 18.0016 U

Ex eb IIC Gb

Ex tb IIIC Db

EPT 18 ATEX 3029 U

NB: 0477

Lot: X XXXX-(YYYY)

Label for x DS

(Item-code)

II 1D 2G IP66
IECEX EUT 18.0016 U

Ex eb IIC Gb

Ex ta IIIC Da

EPT 18 ATEX 3029 U

NB: 0477

Lot: X XXXXX-(YYYY)

(item): ID item of enclosure

- IP: Protection degree of enclosures UNI EN 60529/A1
- 6x : Fully protected against powder
- x6 : Protected against penetration of powerful water sprays
- II: Group II electric construction for places featuring potentially explosive atmosphere, other than gassy mines
- 1 or 2: Category according to the protection degree required
 - G: Gas: suiting potentially explosive atmospheres with the presence of gas.
 - D: Dust: suiting potentially explosive atmospheres with the presence of combustible powders
 - U : Indicates that this is a component, it is not designed to be used on its own, additional consideration is required when it is incorporated in an electric construction.
 - eb Equipment or component with increased safety protection method
 - ta Equipment or electrical component protected against explosive dust atmospheres from a housing with dust cover protection. (protection type "t" according to the harmonized standard EN60079-31).
 - tb Equipment or electrical component protected against explosive dust atmospheres from a housing with dust cover protection. (protection type "t" according to the harmonized standard EN60079-31)
 - IIc Group II. Equipment or components for use in the presence of atmospheres with gas other than mines.
 - IIIc Group III. Equipment or component for use in the presence of atmospheres with explosive dust other than mines. Subdivision IIIc: conductive powders.
 - Gb Equipment or component for use in explosive atmospheres due to the presence of gas, with a "high" level of protection, which is not a source of ignition during normal operation or during expected malfunctions
 - Db Equipment or component suitable for explosive atmospheres due to the presence of combustible dusts which has a "high" level of protection, which does not constitute a source of ignition in normal operation or when subjected to expected failures
 - Da Equipment or component suitable for explosive atmospheres due to the presence of combustible dusts, which presents a "very high" level of protection, which does not constitute a source of ignition in normal operation, during expected malfunctions, or when subjected to rare malfunctions

EPT 18 ATEX 3029 U EU type examination certificate number issued by EUROFINS PRODUCT TESTING S.r.l.

NB: Notified Body that has the supervision of the production: (0477) EUROFINS PRODUCT TESTING S.r.l.

Lot: X XXXX ID of the lot and (YYYY) manufacture year



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The protection degree is assured by the enclosure when NOT drilled; when drillings are present, the protection degree can be preserved only by <u>properly</u> installing instrument featuring same or higher protection degree.

5. TRANSPORTATION

The enclosures are delivered packed in cartons or pluriball.

Transportation must take place without tampering the package, avoiding knocking the enclosure.

6. STORAGE

The enclosures must be stored in places clean, free from corrosive atmosphere, inside their original packages. Storage conditions: temperatures higher than 0 °C, lower than 60 °C and air humidity LOWER than 80%.

7. COMMISSIONING

Environmental atmospheric conditions as per regulations:
Temperatures ranging from -20 °C to +60 °C (with polyurethane gasket);
Temperatures ranging from -40 °C to +180 °C (with silicone gasket);
Atmospheric pressure ranging from 80 kPa (0,8 Bar) to 110 kPa (1,1 Bar);
Air featuring regular oxygen content, usually 21% v/v.



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8. USE

The enclosures are made of EN 1.4301 (AISI 304) or EN 1.4404 (AISI 316L) s/s (Identified by marking on the door). On demand they could be realized in s/s EN 1.4307 or 1.4306 (AISI 304L) or EN 1.4401 or 1.4436 (AISI 316) or EN 1.4432 or 1.4435 (AISI 316L) or EN 1.4571 (316Ti)

The cabinets are **NOT** painted.

The gasket are made from bi-component polyurethane or bi-component silicone.

The fitter is bound to make sure the materials used in the manufacture are compatible with the installation zone. (see also table A)

The enclosures are supplied protected by adhesive film, which must be removed prior to start to operation (IMPORTANT see Chapter 10).

Humidity NOT exceeding 80%

Enclosure tightness degree (without drillings): IP66

The enclosures are fit for use with the following protection systems:

	o cholocation and the for all the following protection by stories							
	ELECTRIC PROTECTION SYSTEM for GAS							
	Protection method Category 1 Category 2 Category 3 Zone 0 Zone 1 Zone 2							
e Increased safety		NO	YES	YES				

	ELECTRIC PROTECTION SYSTEM for POWDERS							
Protection	method	Category 1 Zone 20	Category 2 Zone 21	Category 3 Zone 22				
tb (Protection by enclosures)	IP6X	YES (only for DS series - ta)	YES (QL series - tb)	YES				
	IP5X	======	======	YES (Only with NON Con-conductive powders)				

Use limitations

- 1) The casing can be used with the following Maximum Operating Temperatures: from -20 ° C to +60 ° C with bi-component expanded polyurethane gasket from -40 ° C to +180 ° C with bi-component expanded silicone gasket
- 2) The parts that can be disassembled and can preclude the functional integrity of the casing are the doors or covers. Doors of the QL and QLP series, follow the instructions (see Figure 8).
 Lids of the DS series, they are only screws screwed with hexagonal Allen wrenches for which NO special instructions are needed, you only need NOT to exceed the tightening torques below.

The screws and / or nuts must NOT be tightened with torque values higher than those indicated below

Filettatura	M4	M5	M6	M8	M10	M12
Nm	2,0	3,2	5,0	10	16	25

3) The inlet holes must have a diameter no greater than 0.7mm with respect to the nominal diameter of the cable gland or threaded inlet adapter.



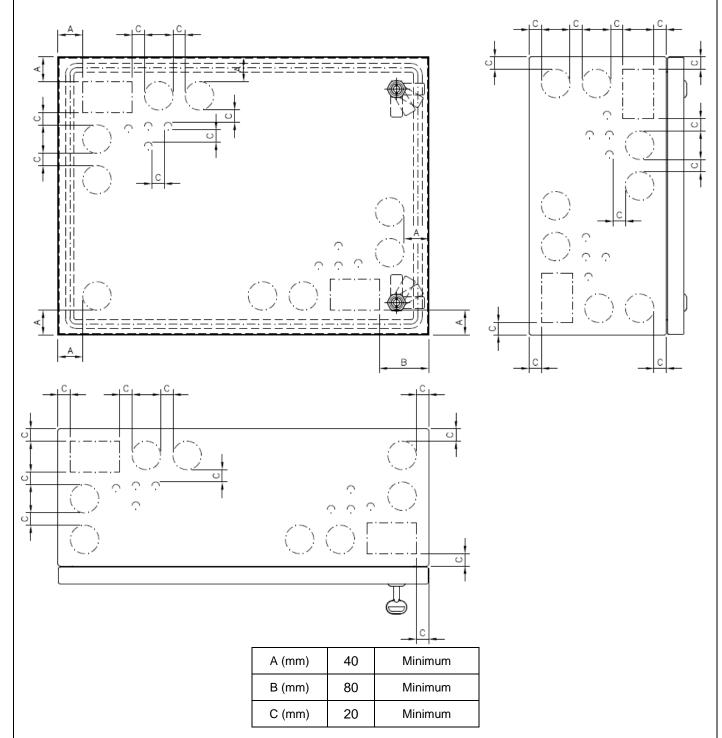
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9. ASSEMBLING AND DISASSEMBLING

The enclosures can be drilled to allow the installation of instruments or the entry of cables. Drillings can be done in compliance with the minimum parameters summarized in figures 1, 2, 3, 4 and 5 below:

DRILLINGS for Series QL - QLP (Fig. 1)



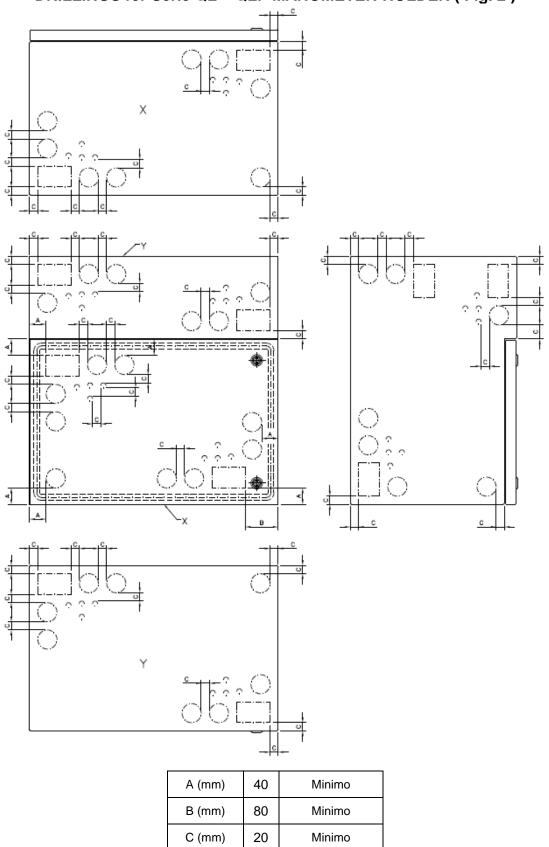
THE INSTRUMENTS OR ACCESSORIES THAT ARE INTENDED TO ASSEMBLE THE ENCLOSURE, ATEX / IECEX CERTIFICATES MUST BE CERTIFIED IN ACCORDANCE WITH EN / IEC 60079: 0 EN / IEC 60079: 31 EN / IEC 60079: 7 EPL Gb AND EPL Db WITH DEGREE OF IP66 PROTECTION



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DRILLINGS for Serie QL - QLP MANOMETER-HOLDER (Fig. 2)



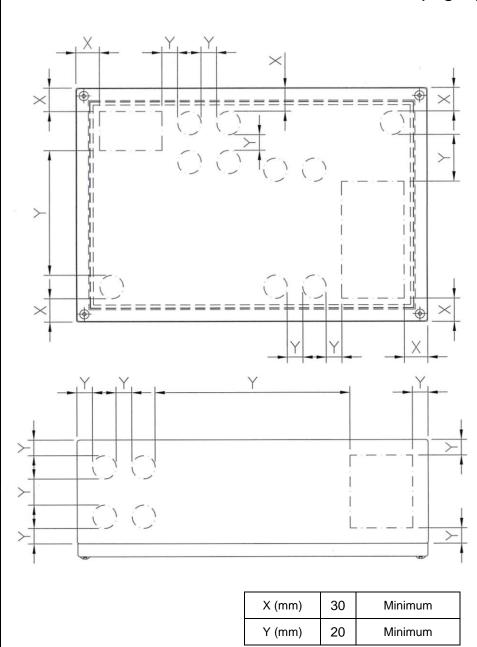
THE INSTRUMENTS OR ACCESSORIES THAT ARE INTENDED TO ASSEMBLE THE ENCLOSURE, ATEX / IECEX CERTIFICATES MUST BE CERTIFIED IN ACCORDANCE WITH EN / IEC 60079: 0 EN / IEC 60079: 31 EN / IEC 60079: 7 EPL Gb AND EPL Db WITH DEGREE OF IP66 PROTECTION

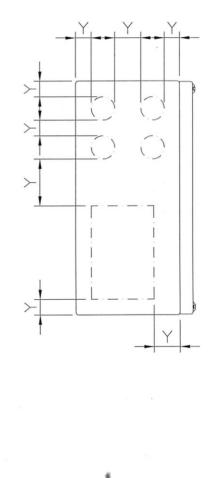


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DRILLINGS for Series DS (Fig. 3)





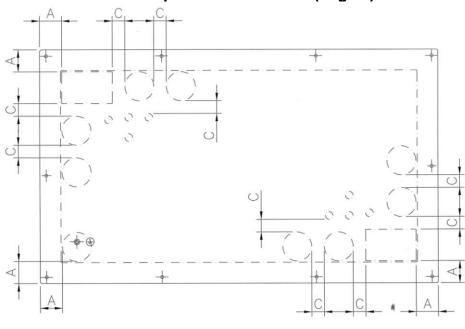
THE INSTRUMENTS OR ACCESSORIES THAT ARE INTENDED TO ASSEMBLE THE ENCLOSURE, ATEX / IECEX CERTIFICATES MUST BE CERTIFIED IN ACCORDANCE WITH EN / IEC 60079: 0 EN / IEC 60079: 31 EN / IEC 60079: 7 EPL Gb AND EPL Db WITH DEGREE OF IP66 PROTECTION



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Fairlead plates for QL - QLP (Fig. 4)

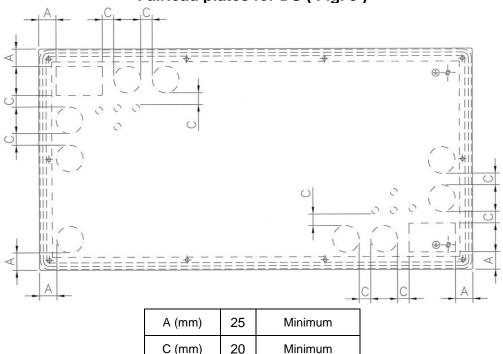


A (mm)	35	Minimum		
C (mm)	20	Minimum		

THE INSTRUMENTS OR ACCESSORIES THAT ARE INTENDED TO ASSEMBLE THE ENCLOSURE, ATEX / IECEX CERTIFICATES MUST BE CERTIFIED IN ACCORDANCE WITH EN / IEC 60079: 0 EN / IEC 60079: 31 EN / IEC 60079: 7 EPL Gb AND EPL Db WITH DEGREE OF IP66 PROTECTION

FOR ANY DOUBTS, CONTACT ILINOX TECHNICAL DEPARTMENT.

Fairlead plates for DS (Fig. 5)



THE INSTRUMENTS OR ACCESSORIES THAT ARE INTENDED TO ASSEMBLE THE ENCLOSURE, ATEX / IECEX CERTIFICATES MUST BE CERTIFIED IN ACCORDANCE WITH EN / IEC 60079: 0 EN / IEC 60079: 31 EN / IEC 60079: 7 EPL Gb AND EPL Db WITH DEGREE OF IP66 PROTECTION



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The enclosures can be secured to the wall or to a bearing frame, in compliance with the instructions (see Figure 6 and 7). Every source of vibration can be harmful therefore, in the presence of this phenomenon, suitable protections such as VIBRATION DAMPERS must be set up.

The enclosures are arranged for earthing on all the parts NOT welded to each other (doors, envelopes, inner plates), there is a predisposition of external earthing. The dimension of connecting element for earthing is M6x15.

The earthing point being clearly marked with the pictorial



10. MAINTENANCE AND REPAIRS

For any maintenance operations for which the door or the cover of the enclosure must be opened, make sure the explosive atmosphere does not get in touch with inner hot surfaces or live parts; to this effect, place on the enclosure this WARNING directions:

AFTER SWITCHING OFF, WAIT _ _ _ MINUTES BEFORE OPENING DO NOT OPEN IN THE PRESENCE OF EXPLOSIVE ATMOSPHERE

DO NOT OPEN WHILE ENERGIZED

Evaluation of suitability of these information lie within competence of manufacturer of finished instrument.

In order to prevent the building-up of dangerous layers of explosive powders, the enclosure must be cleaned to avoid the build-up of a layer thicker than 5 mm.

Every time you open the enclosure, check the integrity of the gaskets and replace them IMMEDIATELY, if the need be.

If NO opening is foreseen for doors or panels, check the integrity of the seal with such a frequency as to comply with the laws in force in the place of installation of the enclosures (if any), otherwise with intervals NOT exceeding 2 years.

Check the surface of the enclosure at least once a year, No evidence of corrosion or formation of rust particles must be observed.

Any alteration and/or repair to the enclosure (except for the drillings according to chapter 9) unless authorized by ILINOX s.r.l., will nullify the conformity of the component and cancel all and every responsibility.

Repairs and/or modifications involving the use of tools that may cause ignition of explosion:

MUST be done in SAFE areas (free from gas and/or inflammable gases).

MUST be done after reclaiming the container to avoid gas stagnation.

MUST be done after removal of the potentially explosive powders.

Repairs and/or modifications must be done by Workshops having the specific equipment required, by personnel having technical know-how and in compliance with the safety rules in force.

They must be documented and kept in the technical documents of the equipment.

The use of NON original spare parts, if any, nullifies the component conformity and makes all and the responsibility of ILINOX s.r.l. null and void.



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11. INSTALLATION

S/s features good strength to corrosion, provided they can passivate thus forming a protection layer against corrosion agents. Once the protecting film has been REMOVED, the enclosure must be left exposed to the air in a clean environment (the atmosphere shall not contain pollutants like: iron oxide, salts, salinity, chlorides, organic vapours)

Check that the material HAS NOT been attacked by "rust" particles from machining with UNFIT tools; if this occurs, they must be removed by suitable pickling agents as they are a source of corrosion as well as of possible striking due to violent shock or rubbing.

The enclosure can be installed in zones where explosive atmospheres are present due to gases or powders.

The areas of competence are: 20 - 1 - 21 - 2 - 22 for the series DS only

1 - 21 - 2 - 22 for the series QL - QLP.

The fitter must know exactly the zone where the enclosure is going to be installed, such zones being identified according to rule CEI EN 60079-10-1 for the presence of gas and/or CEI EN 60079-10-2 for the presence of combustible powders.

The fitter is also committed to check that the materials used in the manufacture are compatible with the atmosphere of the installation zone.

UNSUITABLE for explosive powders NOT requiring oxygen for combustion.

UNSUITABLE for pyrophoric substances.

UNSUITABLE for underground mines.

UNSUITABLE for installation on the surface of mines made hazardous by the presence of grisou and/or combustible powders.

UNSUITABLE in environment containing chlorides.

12. SAFETY DATA

When using sealants, these must stand temperatures 20° higher than the Maximum Surface Temperature and at least 10° lower than the minimum operating temperature.

GAS

Zone of possible installation are: 1 - 2.

Category of the system 2, 3.

POWDERS

Zones of possible installation are:

 $20-21-22\,$ for the series DS only; $\,$ 21 - 22 for the series QL - QLP.

Category of the system: 1 - 2 - 3 for the series DS only; 2 - 3 for the series QL - QLP.

13. APPLICABLE REGULATIONS

EN	EN	EN		
60079-0:2018	60079-31:2014	60079-7:2015		
IEC	IEC	IEC		
60079-0:2017	60079-31:2014	13463-1:2009		

14. PROTECTION DEGREE

The enclosures are delivered with protection degree tested on laboratory sample: IP66

If drillings are made on the enclosure, they cause the LOSS of the protection degree UNLESS they are properly closed by accessories or instruments featuring the same protection degree and properly installed.

If accessories or instruments featuring lower protection degree are set-up, the enclosure takes up the lowest protection degree installed.

15. STRUCTURE PERFORMACE

The enclosures are delivered after mechanical crash test equal to 7 J, provided the minimum and maximum drilling values indicated in Chapt. 8 are complied with.

If such values are NOT respected:

- The test report is to be considered void and MUST be performed again on the final electric construction, at fitter's charge unless a different opinion is given by the Notified Body chosen by him.
- It makes the conformity of the component void an null and any responsibility by ILINOX s.r.l. will cease.



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Schedule - Corrosion strength

These schedules are a summary of the most reliable laboratory data currently available on the corrosion strength of the materials being considered

When using these schedules, it will however be advisable to keep into consideration that the results are from laboratory tests and are therefore to be considered as a recommendation and NOT as an absolute guarantee.

		AISI304	AISI316L	Bi-component polyurethane	Bi-component silicone
Butyl acetate	+21°	1	1	C1	B1
Ethyl acetate	Ta	2	2	D1	B1
Methyl acetate	Ta	1	1	D1	B1
Acetylene	+20°	1	1	A1	A1
Vinegar	+20°	1	1	B1	==
Acetone	Е	1	1	E1	B1
Benzoic acid benzoico	+20°	2	2	A1	A1
Boric acid 5%	С	2	2	A1	A1
Citric acid 5%	+20°	1	1	A1	A1
Hydrochloric acid		4	4	A1	A1
Chromic acid 5%	+20°	2	•	E1	B1
Formic acid 5%	+20°	<u>2</u> 1	2	E1	C1
Nitric acid 5%	+20°		1	E1	A1
Oleic acid	+20°	2	2	A1	A1
Sea water	+20°	2	2	A1	A1
Soft water	Ta	1	1	A1	A1
Ethylic acid	+20°	2	2	C1	A1
Carbon dioxidecarbonica	Ta	1	1	A1	A1
Nitrogen	Ta	1	1	A1	A1
Gasoline	+20°	1	1	C1	B1
Ammonium carbonate	Та	2	2	A1	A1
Barium carbonate	Та	2	2	A1	A1
Calcium carbonate	+20°	2	2	A1	A1
Cyclohexane	Ta	1	1	D1	C1
Chlorobenzene	+20°	1	1	D1	D1

		AISI304	AISI316L	Bi-component polyurethane	Bi-composant silicone
Chloroform	+20°	1	1	D1	E1
Barium chloride 5%	+20°	2	2	A1	A1
Calcium chloride	+20°	3	2	A1	A1
Methylene	Ta		1	E1	C1
Eptane	Ta	1	1	B1	C1
Hexane	Ta	2	2	B1	C1
Ethylic ether	+20°	1	1	C1	B1
Natural gas	Ta	1	1	A1	A1
Glycerine	+20°	1	1	A1	A1
Ethylic glycol	+20°	1	1	B1	A1
Hydrogen	Ta	1	1	A1	A1
Barium hydroxide	Ta	2	2	A1	A1
Ink	Ta	1	1	A1	A1
Latex	+20°	1	1	A1	==
Methane	Ta	2	2	A1	A1
Neon	+20°	2	2	A1	A1
Castor oil	Ta	1	1	A1	A1
Mineral oil	Ta	1	1	A1	A1
Ozone	Ta	1	1	B1	B1
Paraffin wax	Ta	1	1	A1	A1
Barium sulphate	+20°	2	2	A1	A1
Soapy solutions	Ta	1	1	A1	A1
Carbon tetrachloride	Ta	2	2	D1	E1
Urea	Ta	2	2	A1	A1
Petrolatum	Та	2	2	A1	A1

Key

C y				
		STAKINLESS STEEL		GASKET
1	EXCELLENT Materials that do not experience substantial dimensional changes. Corrosion rate less than at penetration of 0,13 mm/year		A1	Excellent
2	Good	Materials that are not attacked, but that are generally required where a certain degree of tolerance can be accepted. Corrosion rate 0,1 ÷ 0,5 mm/year	B1	Good
3	Poor strength	Materials that are not usually considered suitable for most of the applications in chemical plants. Corrosion rate 0,5 ÷ 1,26 mm/year	C1	Acceptable
4	Not recommended	Materials whose corrosion rate is too high to be taken into consideration Corrosion rate higher than 1,26 mm/year	D1	Poor
-	No information available		E1	Destroyed

E = Boiling

C = Hot

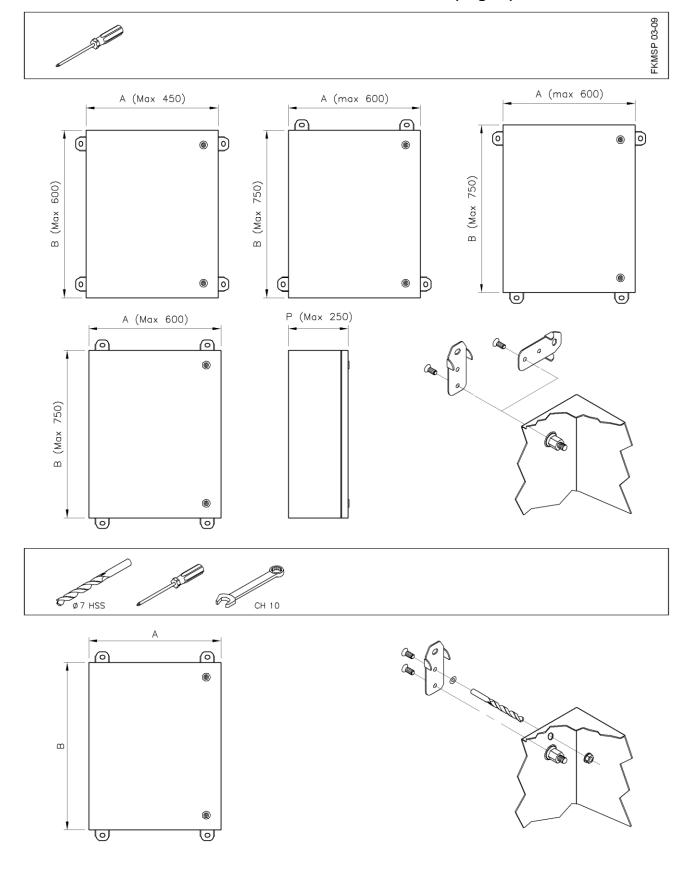
Ta = Room temperature



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WALL-MOUNT RESTS for QL - QLP (Fig. 6)

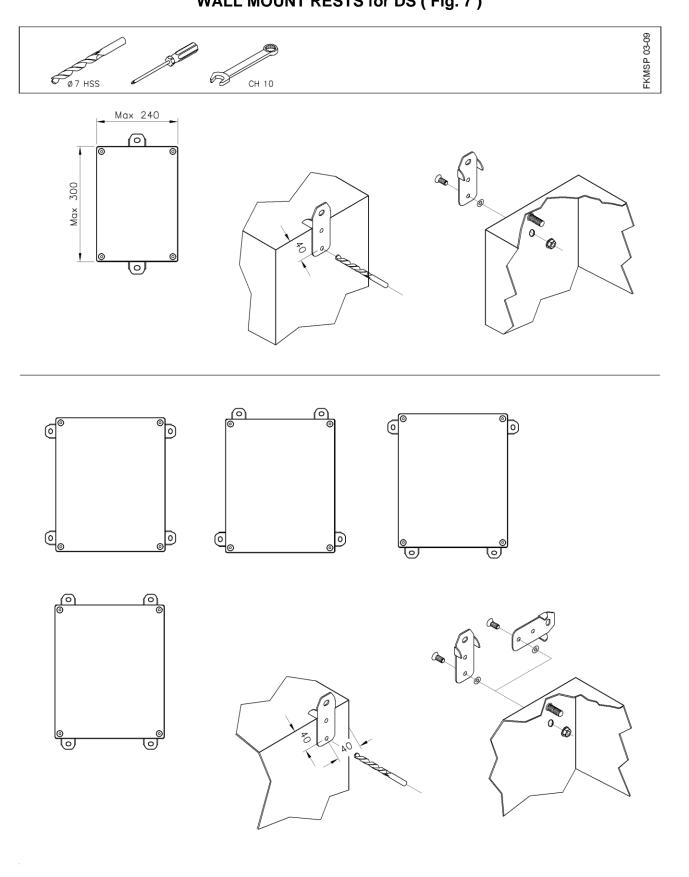




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WALL MOUNT RESTS for DS (Fig. 7)

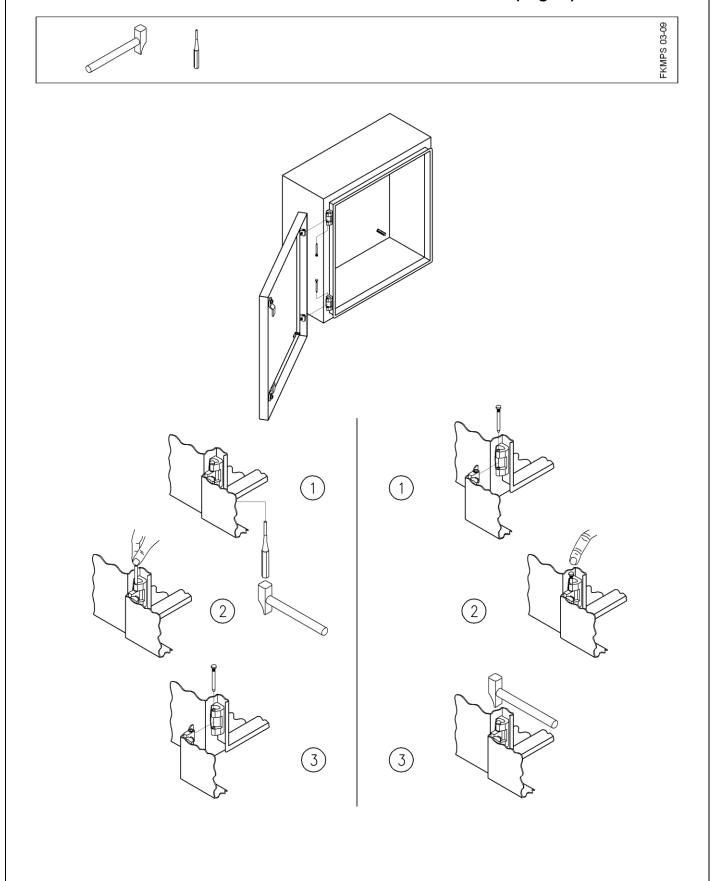




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DOOR ASSEMBLING / DISASSEMBLING QL-QLP (Fig. 8)





Attestato di conformità componenti Attetation of conformity



Strada Provinciale Asolana n°4/6 – 43056 S. Polo di Torrile (PR) Italy

dichiara sotto la propria esclusiva responsabilità che le scatole di derivazione della serie: declares on its own responsibility, that the junction boxes:

DS EX

sono conformi alla Direttiva Comunitarie: are in compliance with the *European Directive*:

2014/34/UE(atex)

sono considerati "componenti" ai sensi dell'art. 1, par. 3(c) della direttiva considered as components, according to art. par. 3(c)

Norme armonizzate applicate:

Applied harmonized standards:

EN 60079-0:2018 / EN 60079-7:2015 / EN 60079-31:2014 /

IEC 60079-0:2017/ IEC 60079-7:2015 / IEC 60079-31:2013

Marcatura applicata : Marking :



II 1D 2G - Ex eb IIC Gb - Ex ta IIIC Da

I prodotti ed il fascicolo tecnico sono stati oggetto di rapporto di approvazione N°. Products and technical manual has been tested and approved in compliance with a report No.

EPT.18.REL.01/55267

dall'organismo notificato EUROFINS PRODUCT TESTING ITALY S.r.l.

Con emissione del certificato di esame UE del tipo N°.

by the notified body EUROFINS PRODUCT TESTING ITALY S.r.l.

UE- type examination certificate No.

EPT 18 ATEX 3029 U

e sono sottoposti a procedure di controllo di GARANZIA QUALITA' (allegato VII direttiva – 2014/34/UE) con sorveglianza dell'organismo notificato:

and they are submitted to procedure of QUALITY ASSURANCE (annex VII direttive – 2014/34/EU) with surveillance by Notified Body:

EUROFINS PRODUCT TESTING ITALY S.r.l. (0477)

San Polo di Torrile: 14/09/2022

Managing Director- Enrico Corradi



Attestato di conformità componenti Attestation of conformity



II INOX S.r.I

Strada Provinciale Asolana n°4/6 - 43056 S. Polo di Torrile (PR) Italy

dichiara sotto la propria esclusiva responsabilità che gli armadietti della serie: declares on its own responsibility, that the cabinet:

QL EX

QLP ::: EX

sono conformi alla Direttiva Comunitarie: are in compliance with the European Directive:

2014/34/UE(atex)

sono considerati "componenti" ai sensi dell'art. 1, par. 3(c) della direttiva considered as components, according to art. par. 3(c)

Norme armonizzate applicate: Applied harmonized standards :

EN 60079-0:2018 / EN 60079-7:2015 / EN 60079-31:2014 /

IEC 60079-0:2017 / IEC 60079-7:2015 / IEC 60079-31:2013

Marcatura applicata : Marking :



II 2 GD - Ex eb IIC Gb - Ex tb IIIC Db

I prodotti ed il fascicolo tecnico sono stati oggetto di rapporto di approvazione N°. Products and technical manual has been tested and approved in compliance with a report No.

EPT.18.REL.01/55267

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San Polo di Torrile: 14/09/2022 Managing Director- Enrico Corradi