Zones 1, 2, 21 and 22

atex delvalle®

HAZARDOUS AREA SOLUTIONS

atex@atexdelvalle.com | www.atexdelvalle.com

TERMINAL & JUNCTION BOXES

TERBOX SERIES IP66

10 YEARS
STAINLESS ANTICORROSIVE **GUARANTEE**

5 YEARS
MECHANICAL PARTS **GUARANTEE**

IECEx

Delvalle, wide experience in manufacturing solutions for hazardous area

WE PUT AT YOUR DISPOSAL

We offer over **45 years** providing hazardous area **solutions** to demanding customers who require very specific characteristics and behaviour according to the sector and their needs.

WHEREVER YOU GO

We are committed to working closely with our customers, providing them with exceptional service and offering an advanced and **extensive range of hazardous area products** with very competitive prices.

CONSULTING & ENGINEERING

Atex Delvalle adapts to our clients' needs by offering hazardous-area systems.
Certified Junction Box Assembly.
Atex-delvalle are the leading certified assembler of Ex junction boxes. With an extensive stock holding of stainless steel enclosures, our workshops are able to provide unrivalled competence, expertise, quality and service to customer specifications.
Our customized services, experienced design and drafting 3D support.

HIGH STANDARD OF QUALITY AND SERVICES

We only use materials provided by companies who offer the very highest quality, suitable and certified products. Our success is due to **top quality** assurance:
ISO 9001, SGS, UL, TÜV, ISO 14000, Ohsas 18001, ATEX, IECEx.

CONTACT US

Confidentiality, reliability & quality

www.atexdelvalle.com
atex@atexdelvalle.com
+34 945 601 381

ALSO ONLINE

Please contact our technical sales department.
A team of professionals with high experience and ability to solve all your queries.

CRITERIA FOR CHOOSING TERMINAL BOXES

Gives Cost and Time Savings

The Ex Junction Box "Terbox" series has been developed for installations in hazardous areas 1, 2, 21 and 22. For installation of signal and power distribution networks in explosion hazardous areas, various types of terminal boxes and junction boxes are available.

We have terminal juction boxes screw closure (Terbox-Geoex Series), hinged terminal & junction boxes (Terbox-Luxorex Series) and high capacity & junction boxes (Terbox-Tribex Series).

They are certified according to the latest Atex and other international standards, types of explosion protection include Ex e, Ex ia, and Ex tb.We Custom made Ex Junction boxes in AISI 304L or 316L Stainless Steel, they prove our commitment for functionality, design and sealing in our range of Ex terminals. All types are robust, durable and highly heat resistant. Distinctive construction features facilitate installation and maintenance.

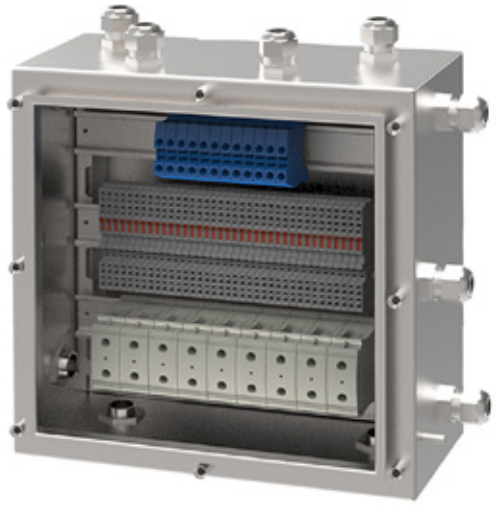
FOR MORE INFORMATION CLICK HERE

Zones 1, 2, 21 and 22

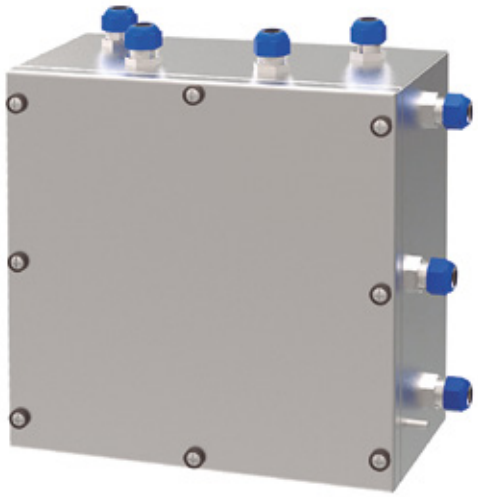
TERMINAL & JUNCTION BOXES TERBOX - GEOEX SERIES IP66

Gives Cost and Time Savings

Based on the design and specifications of our Geoex boxes (which are Ex-certified as final product). Terbox can be used in projects requiring the assembly and certification of junction boxes with terminal, cable glands and push-buttons, giving cost and time savings.



Examples



FOR MORE INFORMATION CLICK HERE

TECHNICAL FEATURES

- Made of stainless steel AISI 304L or AISI 316L, with a polished glossy surface finish.
- For use in zones 1, 2, 21 and 22 and to place Ex component terminals.
- Easy opening of boxes thanks to a screwed cover.
- Strict IEC 60079-7 tests passed.
- Seawater resistant.
- External M6 ground connection.
- Wide range of ambient temperatures.
- Thickness 1.5 mm (depending on boxes).
- Optional cable entry cover and hinges.
- Different mounting options.
- Operating temperature (ambience): -25° to ≤60°C.
- Voltage range: max. 1100 V.
- Current range: max. 350 A (depending on the types of terminal and Ex components used).

TERMINAL & JUNCTION BOXES TERBOX - GEOEX SERIES IP66

TERMINALS

Weidmüller

Atex Delvalle mounts in Terbox Series, Weidmüller brand terminals.
We can also use other brands on request such as:

PHOENIX CONTACT · WAGO · ABB · legrand · Rockwell Automation

Delvalle offers users a wide range of accessories as ideal solutions for all possible tasks, even beyond the standard functions.

These accessories meet the same quality standards as the terminals themselves.

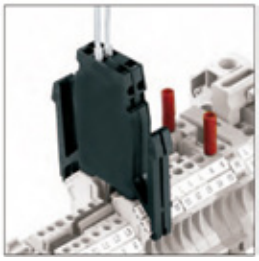
Visual separation
Endcaps

Signalling

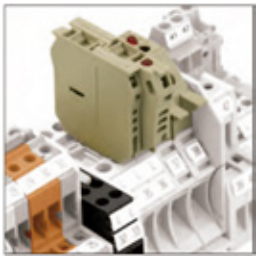
Fixation

Electrical power
supply

Electrical distribution

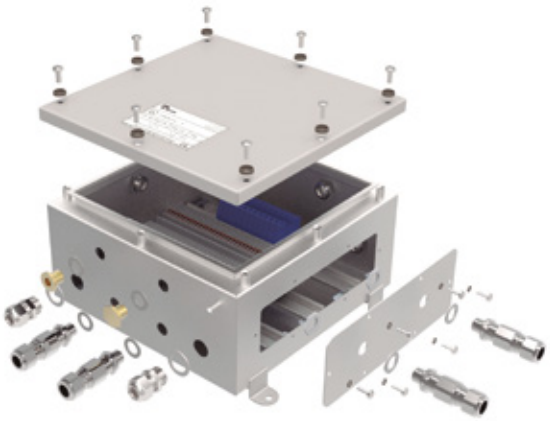


Testing



Specific functions,
color variations

TERMINAL & JUNCTION BOXES **TERBOX - GEOEX SERIES** IP66



TURNKEY PROJECTS

Options available include sizes, colours, types of connection among others.

As we have a close relationship with the main Ex certified companies in our field, we achieve total adaptability and flexibility.

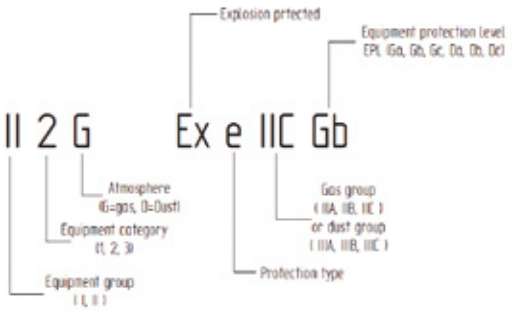
PROTECTION MODE

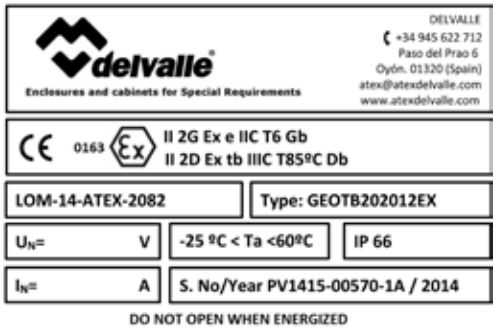
- According to directive EN 60079-0 for empty enclosures:
  - II 2G Ex e IICGb
  - II 2D Ex e IIIC Db IP66
- According to directive EN 60079-0 for terminal boxes:
  - II 2G Ex e IICGb
  - II 2D Ex e IIIC Db IP66
- Certificate empty box terminal:
  - LOM 14ATEX3028U
- Certificate Terbox:
  - LOM 14ATEX2082
- Certificate quality:
  - LOM 14ATEX9050
- Maximum IK10 norm IEC 62262.
- Voltage range: max. 1100 V and current and voltage range: max. 350 A (depending on the types of terminal and Ex components used).

CERTIFICATION

Atex & IECEx directive and normative:

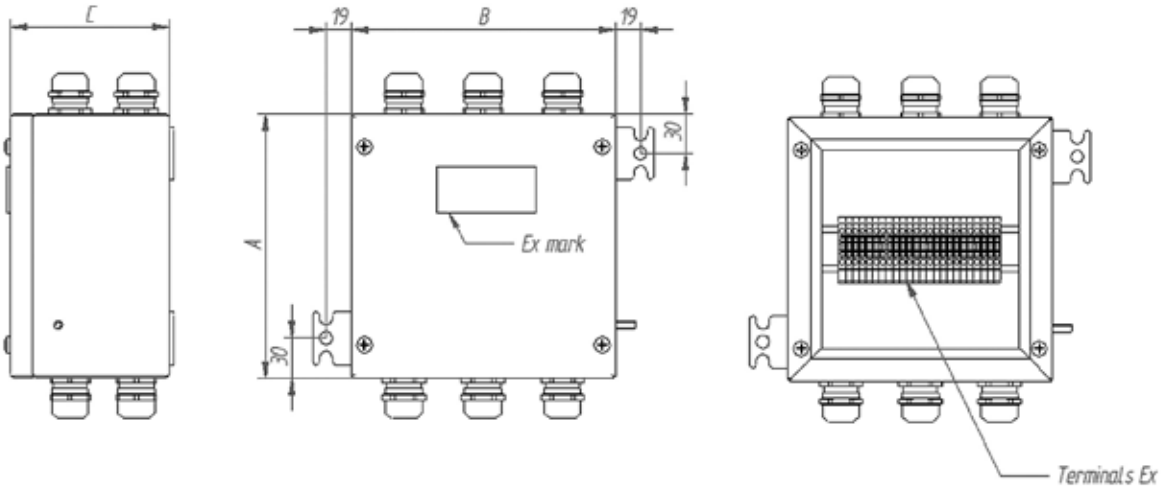
- Atex 2014/34/EU directive
- IP66 according to IEC Standard EN 62208 and EN 60529.
- IP (W) 66 corrosive environments.
- IEC 62208 and EN 62262. Degree of resistance against impact IK10.
- UNE-EN 60079-0:2011
- UNE-EN 60079-7:2007
- UNE-EN 60079-31:2014
- Operating temperature (ambience): -25° a ≤60°C.





TERMINAL & JUNCTION BOXES TERBOX - GEOEX SERIES IP66

TECHNICAL SPECIFICATIONS



REFERENCES

REFERENCES	N° TERMINALS														
REFERENCES	N° LANES	DIMENSIONS (mm)			6 A	10 A	16 A	24 A	32 A	50 A	80 A	110 A	130 A	150 A	230 A
		HEIGHT A	WIDTH B	DEPTH C	1,5 mm²	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	70 mm²	95 mm²	120 mm²	240 mm²
GEOTB111190EX	1	110	110	90	6	5	5	4	--	--	--	--	--	--	--
GEOTB161190EX	1	160	110	90	15	13	10	8	--	--	--	--	--	--	--
GEOTB111690EX	1	110	160	90	15	13	10	8	--	--	--	--	--	--	--
GEOTB261112EX	1	260	110	120	30	25	20	18	13	--	--	--	--	--	--
GEOTB112612EX	1	110	260	120	30	25	20	18	13	--	--	--	--	--	--
GEOTB202012EX	2	200	200	120	60	50	45	40	30	15	8	--	--	--	--
GEOTB252515EX	2	250	250	150	80	75	60	50	40	30	20	15	15	--	--
GEOTB302015EX	2	300	200	150	100	90	70	55	50	35	25	15	15	--	--
GEOTB203015EX	2	200	300	150	100	90	70	55	50	35	25	15	15	--	--
GEOTB303015EX	3	300	300	150	110	100	80	65	60	41	35	25	25	--	--
GEOTB404017EX	3	400	400	170	145	130	100	75	60	50	40	35	30	--	--
GEOTB505017EX	3	500	500	170	170	150	100	75	60	50	40	35	35	30	30
GEOTB606017EX	4	600	600	170	200	160	100	75	60	50	40	40	35	30	30

10 YEARS
STAINLESS ANTICORROSIVE **GUARANTEE**

5 YEARS
MECHANICAL PARTS **GUARANTEE**

Phone +34 945 601 381
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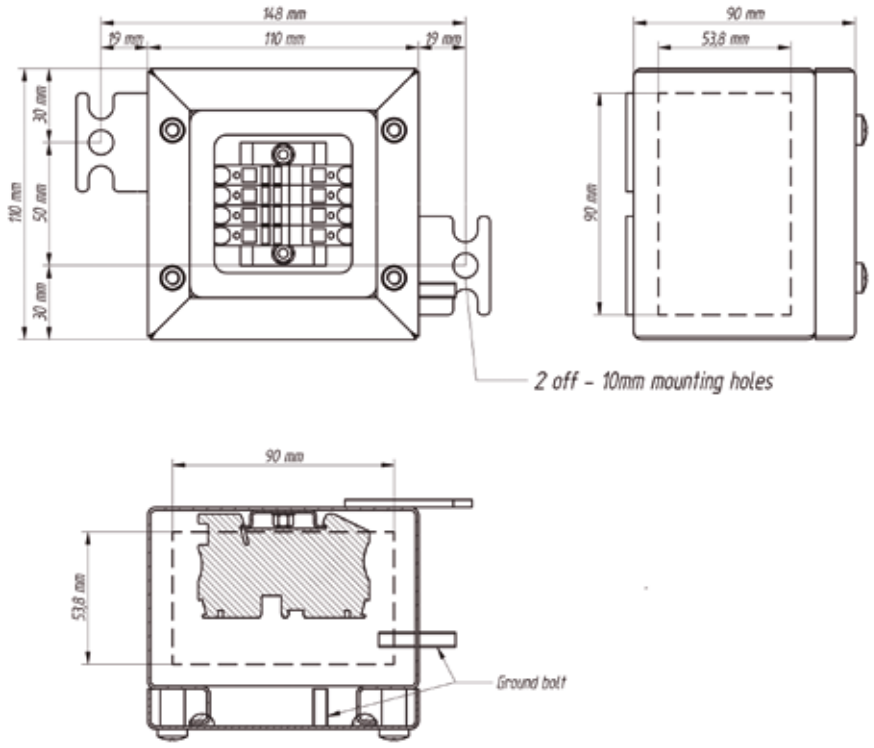
TERMINAL & JUNCTION BOXES **TERBOX - GEOEX SERIES** IP66

MEASURES 110X100X90

TECHNICAL SPECIFICATIONS



REFERENCES

MAXIMUM NUMBER TERMINALS				
REFERENCES	Section mm²	Current max. (A)	Voltage max. (V)	N°. Rails
				1
ZDU 1.5	1.5	15	550	6
ZDU 2.5	2.5	21	550	5
ZDU 4	4	28	550	5
ZDU 6	6	36	550	4

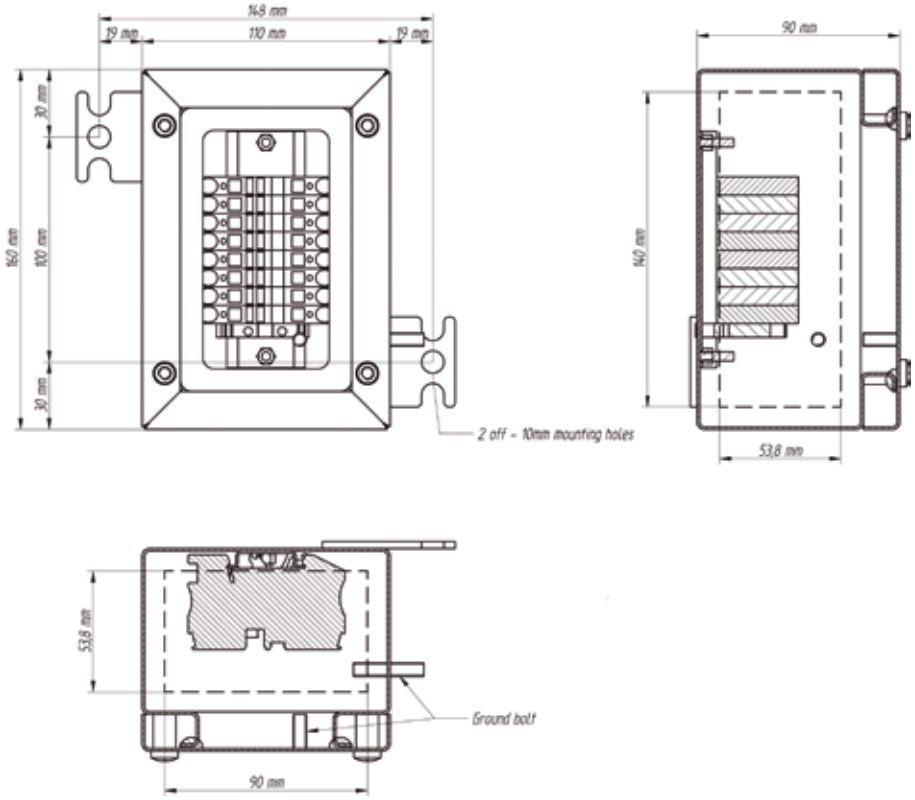
MAXIMUM NUMBER OF INPUTS PER SIDE

THREAD SIZE	M12	M16	M20	M25	M32	M40	M50
Bottom and top	14	8	6	5	3	1	1
Sides	14	8	6	5	3	1	1

TERMINAL & JUNCTION BOXES **TERBOX - GEOEX SERIES** IP66

MEASURES 110X160X90

TECHNICAL SPECIFICATIONS



REFERENCES

MAXIMUM NUMBER TERMINALS				
REFERENCES	Section mm²	Current max. (A)	Voltage max. (V)	N° Rails
				1
ZDU 1.5	1.5	15	550	15
ZDU 2.5	2.5	20	550	13
ZDU 4	4	28	550	10
ZDU 6	6	36	550	8

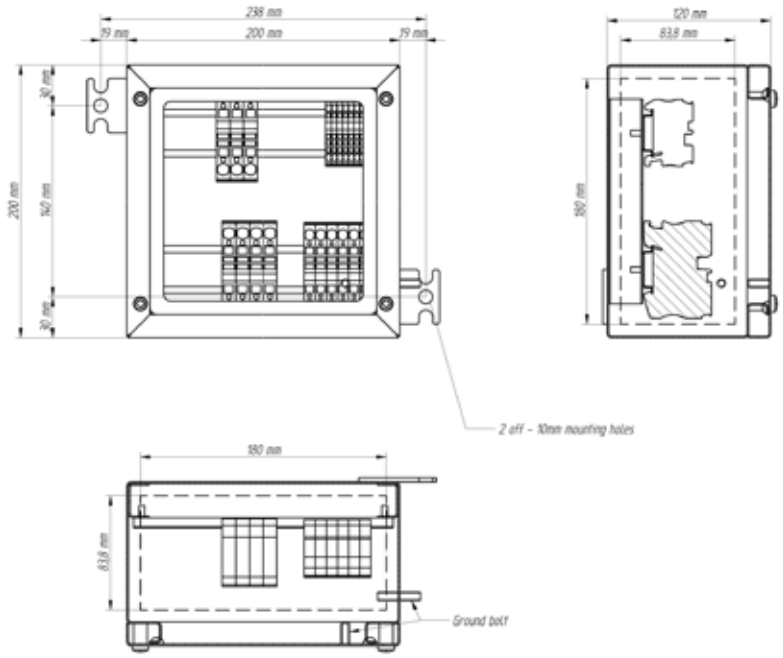
MAXIMUM NUMBER OF INPUTS PER SIDE

THREAD SIZE	M12	M16	M20	M25	M32	M40	M50
Bottom and top	14	8	6	5	3	1	1
Sides	23	15	10	7	5	3	2

TERMINAL & JUNCTION BOXES **TERBOX - GEOEX SERIES** IP66

MEASURES 200X200X120

TECHNICAL SPECIFICATIONS



REFERENCES

MAXIMUM NUMBER TERMINALS				
REFERENCES	Section mm²	Current max. (A)	Voltage max. (V)	N° Rails
				2
ZDU 1.5	1.5	15	550	60
ZDU 2.5	2.5	20	550	50
ZDU 4	4	28	550	45
ZDU 6	6	36	550	40
ZDU 10	10	50	550	30
ZDU 16	16	63	550	15
WDU 35	35	109	690	8

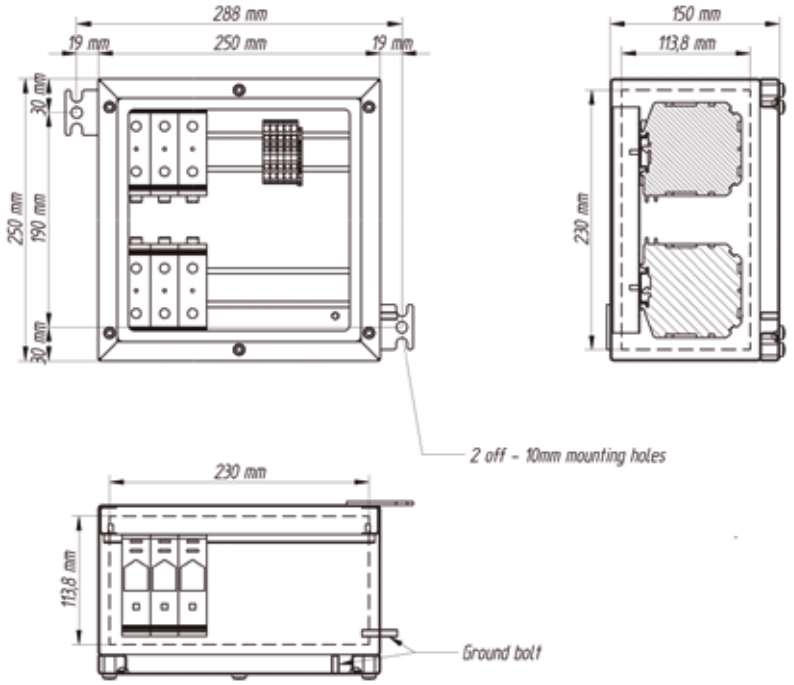
MAXIMUM NUMBER OF INPUTS PER SIDE

THREAD SIZE	M12	M16	M20	M25	M32	M40	M50	M63	M75
Bottom and top	48	30	20	14	8	5	3	2	1
Sides	29	20	13	9	5	3	2	-	-

TERMINAL & JUNCTION BOXES TERBOX - GEOEX SERIES IP66

MEASURES 250X250X150

TECHNICAL SPECIFICATIONS



REFERENCES

MAXIMUM NUMBER TERMINALS				
REFERENCES	Section mm²	Current max. (A)	Voltage max. (V)	N° Rails
				2
ZDU 1.5	1.5	15	550	80
ZDU 2.5	2.5	20	550	75
ZDU 4	4	28	550	60
ZDU 6	6	36	550	50
ZDU 10	10	50	550	40
ZDU 16	16	63	550	30
WDU 35	35	109	690	20
WDU 70	70	167	690	15
WDU 95	95	202	690	15

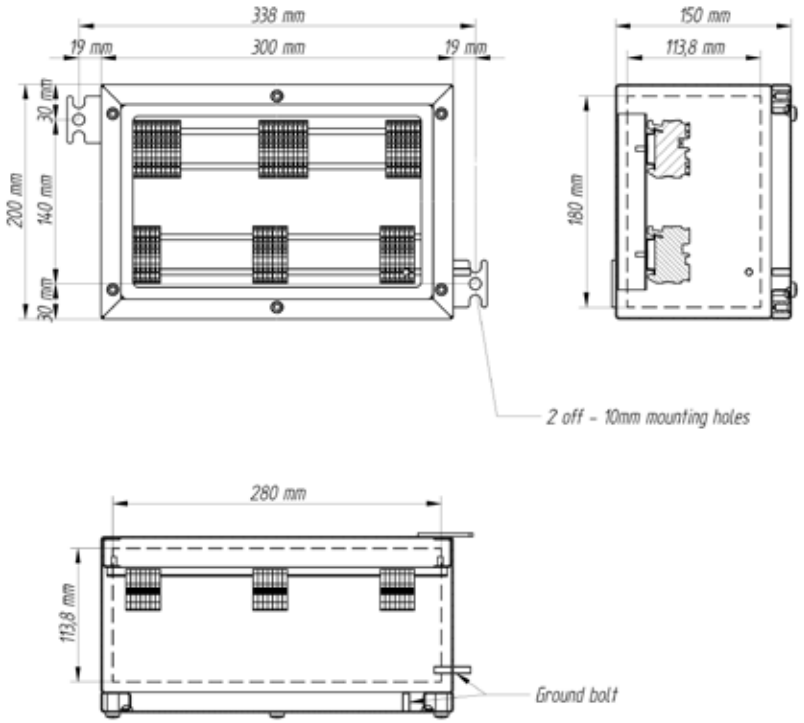
MAXIMUM NUMBER OF INPUTS PER SIDE

THREAD SIZE	M12	M16	M20	M25	M32	M40	M50	M63	M75
Bottom and top	75	48	34	26	14	8	5	3	2
Sides	50	29	26	20	9	5	3	2	2

TERMINAL & JUNCTION BOXES TERBOX - GEOEX SERIES IP66

MEASURES 300X200X150

TECHNICAL SPECIFICATIONS



REFERENCES

MAXIMUM NUMBER TERMINALS				
REFERENCES	Section mm²	Current max. (A)	Voltage max. (V)	N° Rails
				2
ZDU 1.5	1.5	15	550	100
ZDU 2.5	2.5	20	550	90
ZDU 4	4	28	550	70
ZDU 6	6	36	550	55
ZDU 10	10	50	550	50
ZDU 16	16	63	550	35
WDU 35	35	109	690	25
WDU 70	70	167	690	15
WDU 95	95	202	750	15

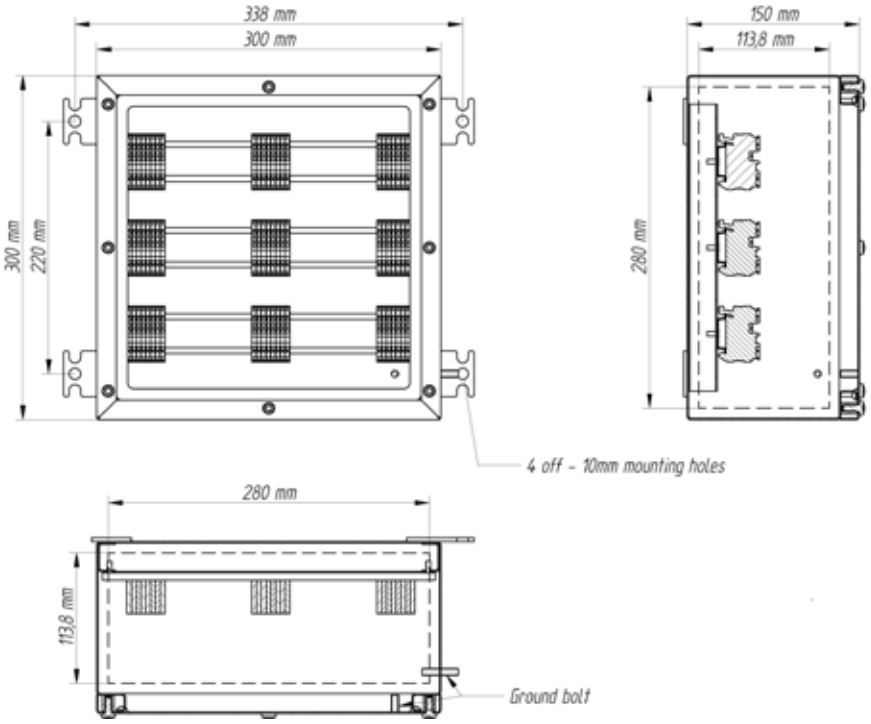
MAXIMUM NUMBER OF INPUTS PER SIDE

THREAD SIZE	M12	M16	M20	M25	M32	M40	M50	M63	M75
Bottom and top	93	63	42	30	17	11	7	3	3
Sides	38	30	20	14	8	5	3	2	1

TERMINAL & JUNCTION BOXES TERBOX - GEOEX SERIES IP66

MEASURES 300X300X150

TECHNICAL SPECIFICATIONS



REFERENCES

MAXIMUM NUMBER TERMINALS				
REFERENCES	Section mm²	Current max. (A)	Voltage max. (V)	N° Rails
				2
ZDU 1.5	1.5	15	550	110
ZDU 2.5	2.5	20	550	100
ZDU 4	4	28	550	80
ZDU 6	6	36	550	65
ZDU 10	10	50	550	60
ZDU 16	16	66	550	41
WDU 35	35	109	690	35
WDU 70	70	167	690	25
WDU 95	95	202	750	25

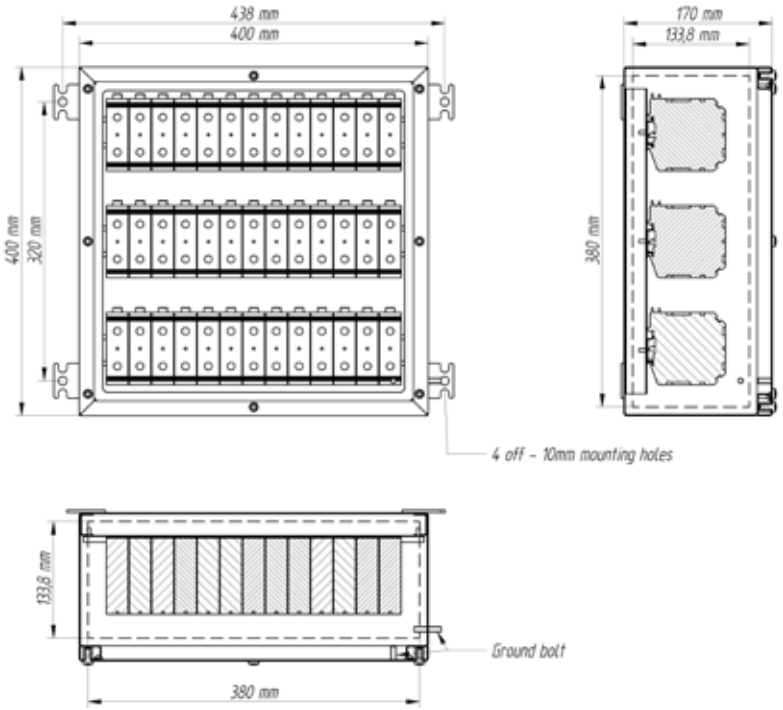
MAXIMUM NUMBER OF INPUTS PER SIDE

THREAD SIZE	M12	M16	M20	M25	M32	M40	M50	M63	M75
Bottom and top	87	63	43	30	18	11	7	3	2
Sides	58	38	29	23	14	7	5	3	2

TERMINAL & JUNCTION BOXES **TERBOX - GEOEX SERIES** IP66

MEASURES 400X400X170

TECHNICAL SPECIFICATIONS



REFERENCES

MAXIMUM NUMBER TERMINALS				
REFERENCES	Section mm^2	Current max. (A)	Voltage max. (V)	N° Rails
				2
ZDU 1.5	1.5	15	550	110
ZDU 2.5	2.5	20	550	100
ZDU 4	4	28	550	80
ZDU 6	6	36	550	65
ZDU 10	10	50	550	60
ZDU 16	16	66	550	41
WDU 35	35	109	690	35
WDU 70	70	167	690	25
WDU 95	95	202	750	25

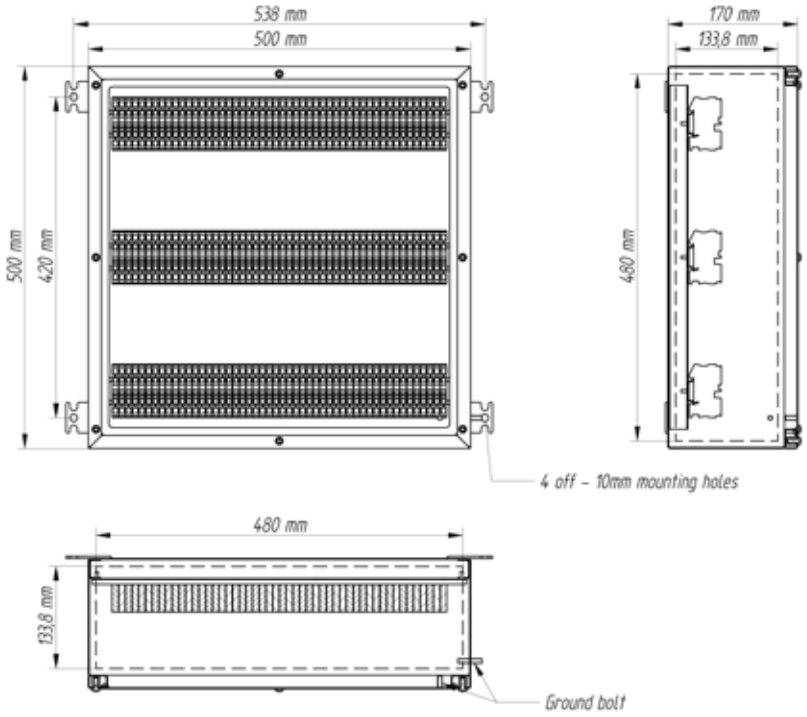
MAXIMUM NUMBER OF INPUTS PER SIDE

THREAD SIZE	M12	M16	M20	M25	M32	M40	M50	M63	M75
Bottom and top	87	63	43	30	18	11	7	3	2
Sides	58	38	29	23	14	7	5	3	2

TERMINAL & JUNCTION BOXES TERBOX - GEOEX SERIES IP66

MEASURES 500X500X170

TECHNICAL SPECIFICATIONS



REFERENCES

MAXIMUM NUMBER TERMINALS				
REFERENCES	Section mm²	Current max. (A)	Voltage max. (V)	N° Rails
				3
ZDU 1.5	1.5	15	550	170
ZDU 2.5	2.5	20	550	150
ZDU 4	4	28	550	100
ZDU 6	6	36	550	75
ZDU 10	10	50	550	60
ZDU 16	16	63	550	50
WDU 35	35	109	690	40
WDU 70	70	167	690	35
WDU 95	95	202	750	35
WDU 120	120	234	1100	30
WDU 240	240	350	1100	30

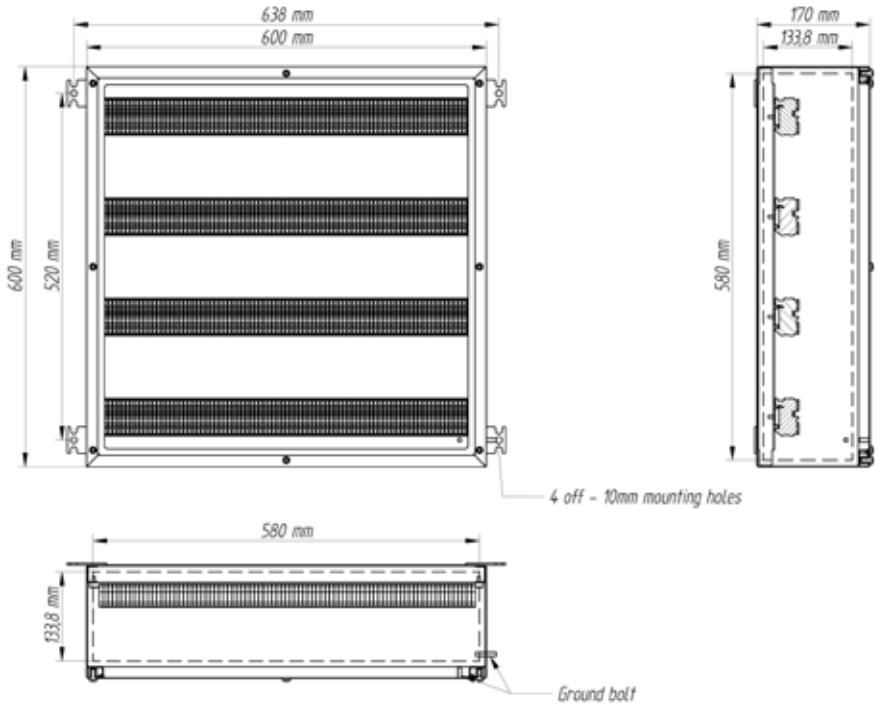
MAXIMUM NUMBER OF INPUTS PER SIDE

THREAD SIZE	M12	M16	M20	M25	M32	M40	M50	M63	M75
Bottom and top	137	109	87	50	38	23	13	7	4
Sides	98	78	58	38	29	15	11	5	4

TERMINAL & JUNCTION BOXES TERBOX - GEOEX SERIES IP66

MEASURES 600X600X170

TECHNICAL SPECIFICATIONS



REFERENCES

MAXIMUM NUMBER TERMINALS				
REFERENCES	Section mm²	Current max. (A)	Voltage max. (V)	N° Rails
				4
ZDU 1.5	1.5	15	550	200
ZDU 2.5	2.5	20	550	160
ZDU 4	4	28	550	100
ZDU 6	6	36	550	75
ZDU 10	10	50	550	60
ZDU 16	16	63	550	50
WDU 35	35	109	690	40
WDU 70	70	167	690	40
WDU 95	95	202	750	35
WDU 120	120	234	1100	30
WDU 240	240	350	1100	30

MAXIMUM NUMBER OF INPUTS PER SIDE

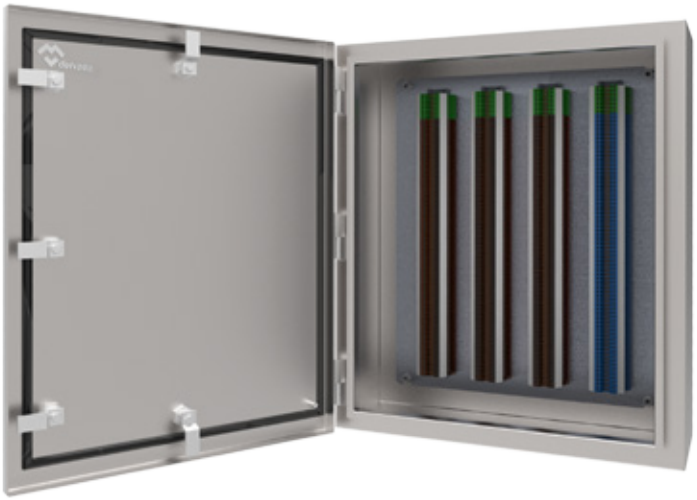
THREAD SIZE	M12	M16	M20	M25	M32	M40	M50	M63	M75
Bottom and top	137	109	87	50	38	23	13	7	4
Sides	98	78	58	38	29	15	11	5	4

Zones 1, 2, 21 and 22

HINGED TERMINAL & JUNCTION BOXES

TERBOX - LUXOREX SERIES IP66

Examples



Easy to Open

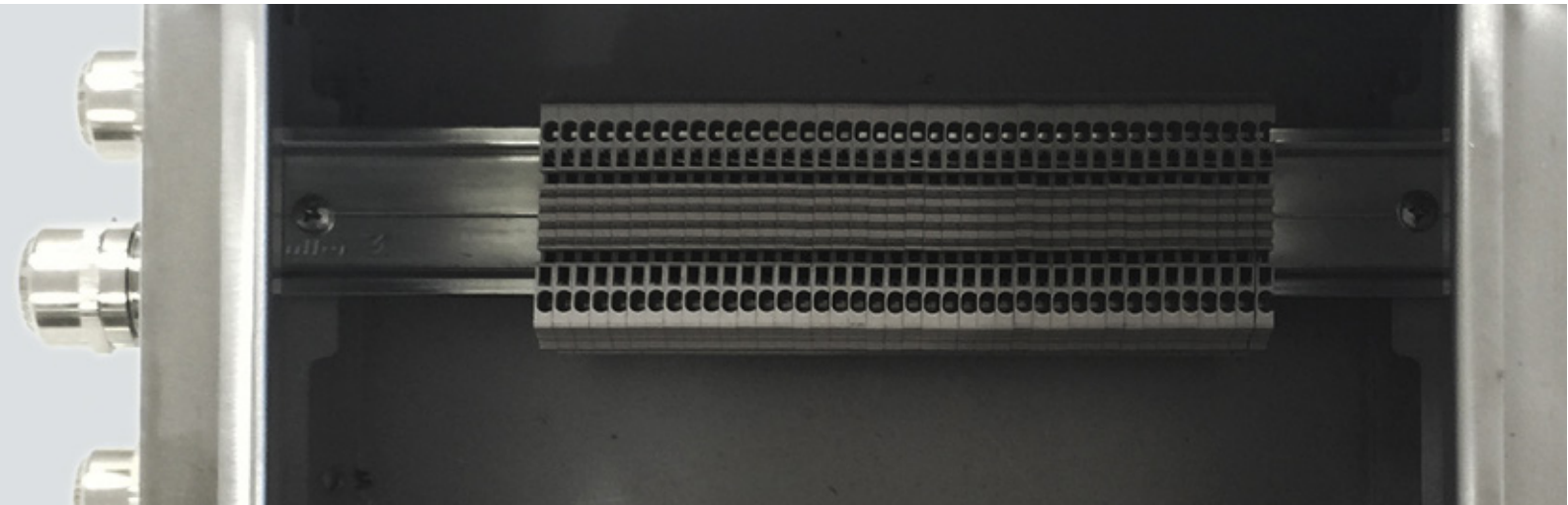
The terminal box with Terbox-Luxorex Series closures and hinges have been developed with a LOM 14ATEX3026U component certificate, sturdy and IP66 sealing.

These boxes can be used with increased safety protection mode "Ex e" including increased safety connection terminals or an "Ex t" enclosure protection mode.

These boxes stand out for incorporating Atex & IECEx components already installed inside them, without needing to re-homologize in a laboratory once assembled.

These station are solely valid for flammable dust environments those stations where all the built-in components are suitable for group III.

FOR MORE INFORMATION CLICK HERE



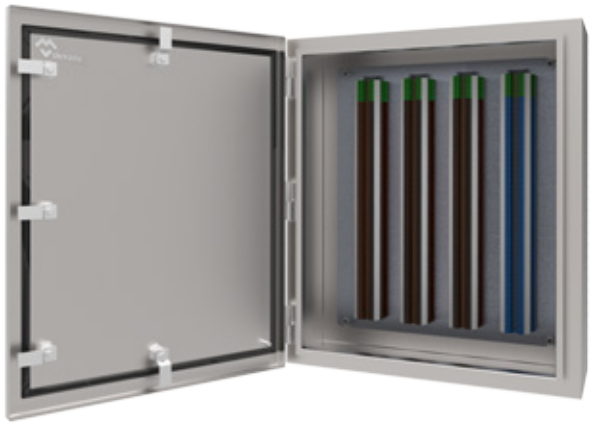
HINGED TERMINAL & JUNCTION BOXES **TERBOX - LUXOREX SERIES** IP66

ADVANTAGES

- Simple door opening with double bit fasteners.
- Great gate opening 120º.
- Robustness, safety, reliability tested.
- Polished finish on all sides.
- Large interior space that simplifies connection operations.
- Atex & IECEx components already installed inside.
- Indoor and outdoor use.
- Guaranteed corrosion protection.
- Great safety and resistance in the most aggressive explosive environments thanks to the design and materials used in its manufacture.

OPTIONS

- Boxes used as maneuver stations, incorporating certified components of connection, maneuver and Signalling: pushbuttons, emergency mushrooms, lights, pushbuttons.
- Boxes used with enclosure protection mode.
- These control stations may be used for connection of intrinsically safe circuits but not in combination with non-intrinsically safe circuits.



TECHNICAL CHARACTERISTICS

They are designed for a voltage up to 1100 V and for a maximum ambient temperature up to +60°C, according to the kind of temperatures marked and currents assigned.
They are able to work between two temperature ranges, giving it greater versatility:

- -25°C ≤ Ta ≤60°C
- -25°C ≤ Ta ≤40°C when high current and temperature T6 are required.

As for the envelope, it is a box made of Luxorex stainless steel, which has the following characteristics:

- Ex Atex door cabinets made of stainless steel AISI 304L or AISI 316L and a satin polished surface finish.
- They are intended to be used in explosive atmospheres classified as zones 1, 2, 21 and 22 and to place Ex components and terminals inside, as well as cable glands.
- Unique monobloc system that achieves perfect sealing and impact resistance. With body pre-assembled, door and minimum welding.
- Earth mass for external connection.
- With double-bit quarter-turn locks and hinges made of stainless steel.
- Very resistant polyurethane seal at -25°C to + 60°C.

TERMINALS

Weidmüller

Atex Delvalle mounts in Terbox Series, Weidmüller brand terminals.
We can also use other brands on request such as:

PHOENIX CONTACT · WAGO · ABB · legrand · Rockwell Automation

Delvalle offers users a wide range of accessories as ideal solutions for all possible tasks, even beyond the standard functions.

These accessories meet the same quality standards as the terminals themselves.

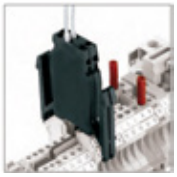
Visual separation endcaps

Signalling

Fixation

Electrical power supply

Electrical distribution



Testing

Specific functions, color variations

PROTECTION MODE

This box is certified for use in potentially explosive atmospheres of zones 1, 2, 21 and 22 and may be used with increased safety protection mode "Ex e" including increased safety connection terminals or enclosure protection mode "Ex t".

- Degree of protection Nema 4X, 12, 3r and 1 by request
- Certificate empty box terminal:
  - LOM 14ATEX3026U
- Certificate Terbox:
  - LOM 17ATEX1011
- Certificate quality:
  - LOM 14ATEX9050
- II 2G Ex eb IIC T6/T5 Gb
- II 2D Ex tb IIIC T85°C/100°C Db
- IP66 protection
- Degree of resistance against impact IK10

CERTIFICATION

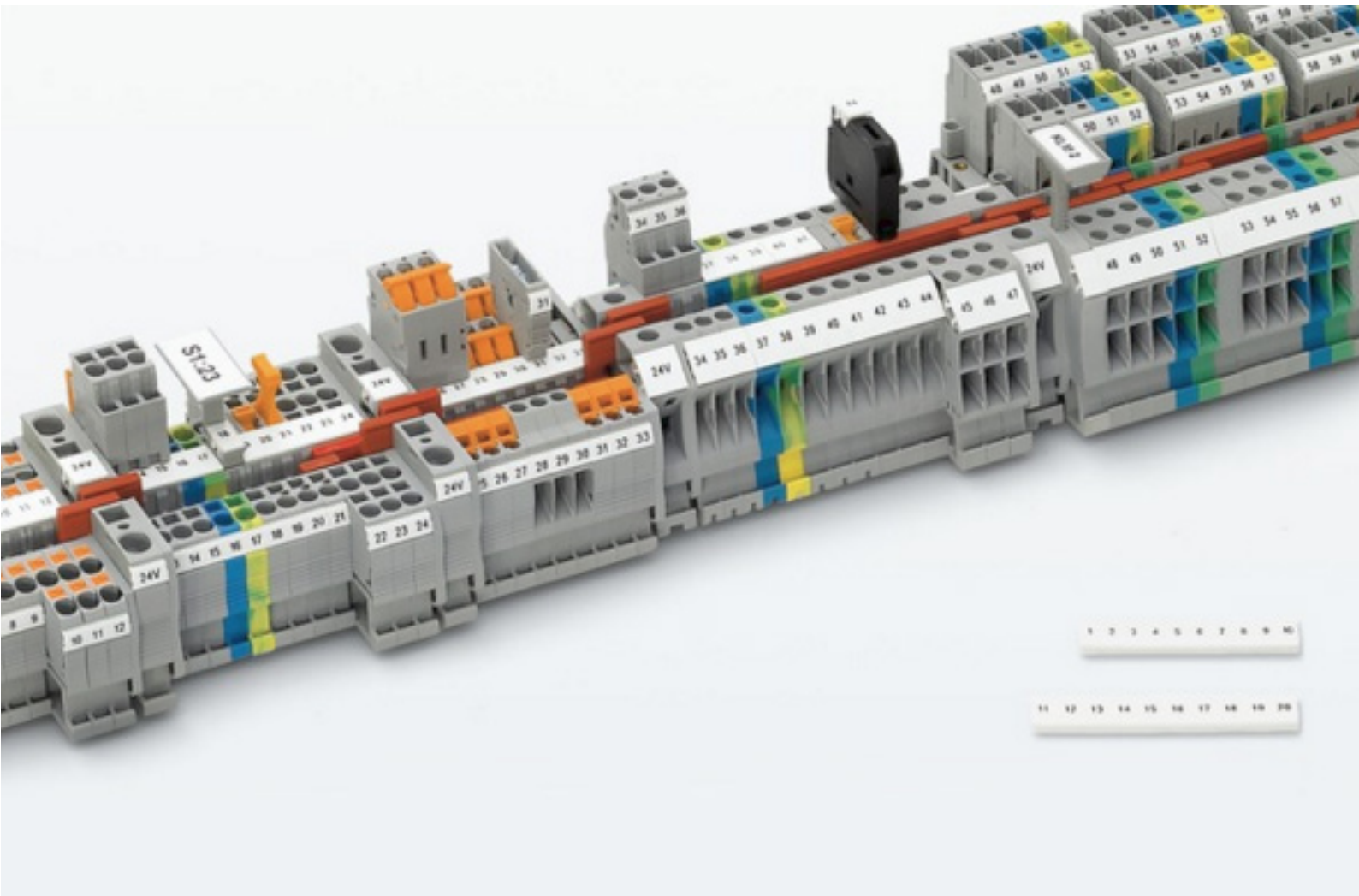
Atex & IECEx directive and normative:

- Atex 2014/34/EU directive
- IP66 according to IEC Standard EN 62208 and EN 60529.
- IP (W) 66 corrosive environments.
- IEC 62208 and EN 62262. Degree of resistance against impact IK10.
- UNE-EN 60079-0:2011
- UNE-EN 60079-7:2007
- UNE-EN 60079-31:2014
- Operating temperature (ambience): -25° a ≤40°C.

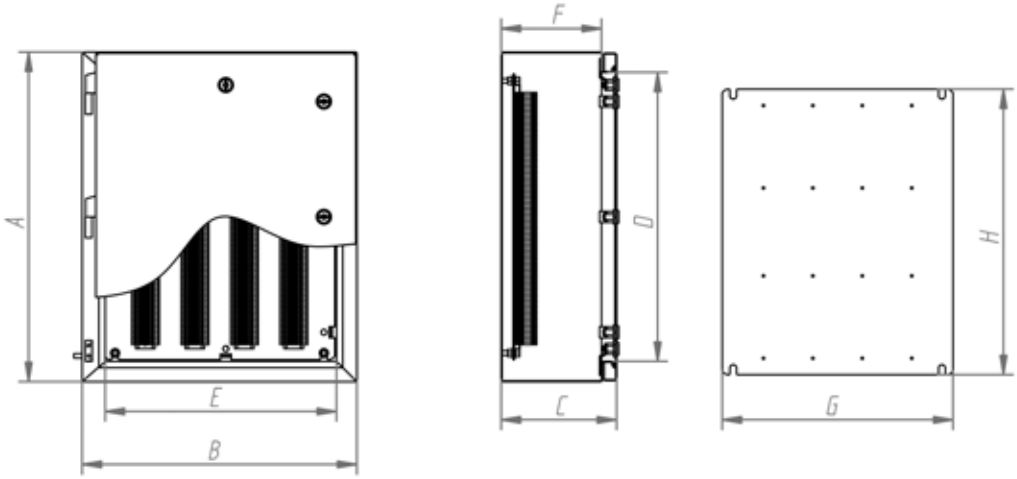
HINGED TERMINAL & JUNCTION BOXES **TERBOX - LUXOREX SERIES** IP66

NUMBER OF TERMINALS PER SIZE

REFERENCES	DIMENSIONS (mm)															
TERBOX LUXOREX	HEIGHT A	WIDTH B	DEPTH C	RAILS	1,5 mm^2	2,5 mm^2	4 mm^2	6 mm^2	10 mm^2	16 mm^2	35 mm^2	70 mm^2	95 mm^2	120 mm^2	240 mm^2	300 mm^2
LXCS302015EX	300	200	155	2	75	60	29	21	17	14	11	6	6	6	-	-
LXCS383015EX	380	300			115	90	70	60	40	40	30	8	8	8	6	4
LXCS383021EX			210													
LXCS603815EX	600	380	155													
LXCS603821EX			210													
LXCS404021EX	400	400														
LXCS504021EX	500			3	260	210	165	135	105	90	60	26	26	26	10	8
LXCS505021EX		500														
LXCS705021EX	700															
LXCS605021EX	600			4	450	360	300	220	180	114	84	34	34	34	24	20
LXCS606021EX		600														
LXCS606030EX			300													
LXCS806030EX	800			5	750	600	525	400	260	215	160	72	72	72	54	45
LXCS808030EX		800														
LXCS108030EX	1000			6	1200	990	840	630	510	420	300	90	90	90	66	50
LXCS101030EX		100														



BLUEPRINT AND DIMENSIONS



10 YEARS
STAINLESS ANTICORROSIVE **GUARANTEE**

5 YEARS
MECHANICAL PARTS **GUARANTEE**

REFERENCES

REFERENCES	DIMENSIONS (mm)								
TERBOX LUXOREX	HEIGHT A	WIDTH B	DEPTH C	INSIDE HEIGHT D	INSIDE WIDTH E	INSIDE DEPTH F	MACHINABLE SIDE AREA		PLATE MESUREMENTS GxH
							DOOR	LATERAL	
LXCS302015EX	300	200	155	226	121,8	126	113x34,5	270x97,5	220x120
LXCS383015EX	380	300		306	221,8		193x134,5	350x97,5	300x220
LXCS383021EX			210			181		350x152,5	
LXCS603815EX	600	380	155	526	301,8	126	413x214,5	570x97,5	520x300
LXCS603821EX			210			181		570x152,5	
LXCS404021EX	400	400		326	321,8		213x234,5	370x152,5	320x320
LXCS504021EX	500			426			313x234,5	470x152,5	420x320
LXCS505021EX		500			421,8		313x334,5		420x420
LXCS705021EX	700			626			513x334,5	670x152,5	620x420
LXCS605021EX	600			526			413x334,5	570x152,5	520x420
LXCS606021EX		600			521,8		413x434,5		520x520
LXCS606030EX			300			271		570x242,5	
LXCS806030EX	800			726			613x434,5	770x242,5	720x520
LXCS808030EX		800			721,8		613x634,5		720x720
LXCS108030EX	1000			926			813x634,5	970x242,5	920x720
LXCS101030EX		1000			921,8		813x834,5		920x920

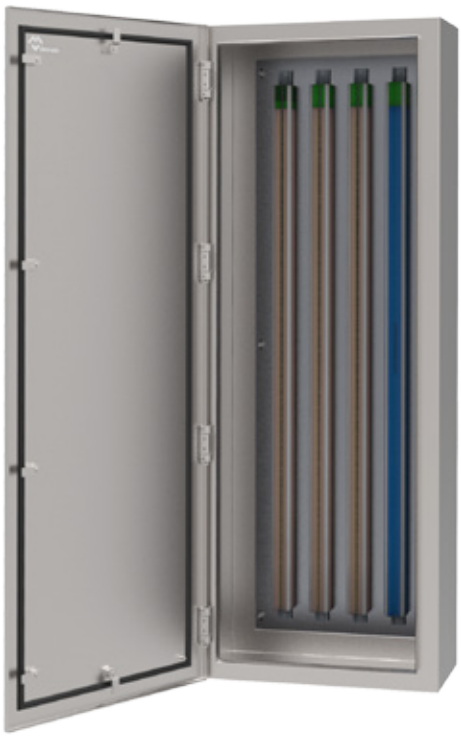
Separation depth plate 20mm

Zones 1, 2, 21 and 22

HIGH CAPACITY TERMINAL BOXES

TERBOX - TRIBEX SERIES IP66

Examples



High Terminal Capacity

The Terbox-Tribex Series has the biggest terminal capacity available in the world, with certificate of component LOM 14ATEX3027U.

These boxes stand out for incorporating Atex & IECEx components already installed inside them, without needing to re-homologize in a laboratory once assembled.

FOR MORE INFORMATION CLICK HERE

ADVANTAGES

- Large dimensions, high terminal boxes capacity.
- Atex & IECEx components already installed inside.
- Indoor and outdoor use
- Large interior space that simplifies connection operations.
- Anti-corrosion protection guaranteed.
- It can store a large number of terminals, up to 1550 terminals in a single cabinet.
- Robustness, safety, reliability tested.
- Great safety and corrosion resistance in the most aggressive explosive environments thanks to the design and materials used in its manufacture.
- Double access option (front and rear doors).

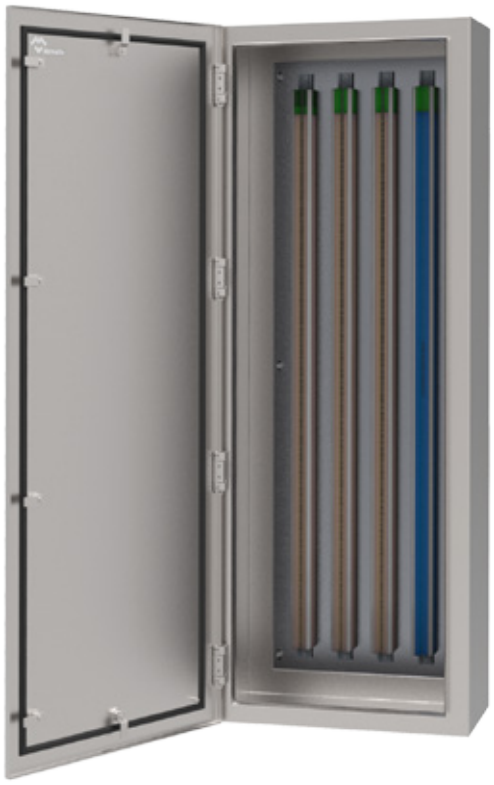
TECHNICAL CHARACTERISTICS

They are designed for a maximum voltage up to 1100 V and for maximum ambient temperature up to 60 °C, depending on to the kind of temperature marked and currents assigned.
They are able to work between two temperature ranges giving greater versatility:

- -25°C ≤ Ta ≤60°C
- -25°C ≤ Ta ≤40°C

Each of the built-in components works for the purpose of thermal dissipation and temperature control in the same way as if they were terminals.
Regarding the enclosure, it is a box made of stainless steel Tribex, which has the following characteristics:

- Ex Atex cabinet doors made of stainless steel AISI 304L or AISI 316L and a satin polished surface finish.
- They are intended to be used in explosive atmospheres classified as zones 1, 2, 21 and 22 and to place Ex components and terminals inside, as well as cable glands.
- Unique monobloc system that achieves perfect sealing and impact resistance. Pre-assembled body and door with minimum welding.
- Earth mass for external connection.
- With double-bit quarter-turn locks and hinges made of stainless steel.
- Very resistant polyurethane seal from -25°C to +60°C.
- Plugs, holes and hinges that resist from -25°C to +60°C.



OPTIONS

- The enclosures can be used with increased safety protection mode "Ex e" including increased safety connection terminals or an "Ex t" envelope protection mode.
- Boxes used as maneuver stations, incorporating certified components of connection, maneuver, signalling: push-buttons, emergency mushrooms and lights.
- Boxes used with enclosure protection mode.
- These control stations may be used for connection of intrinsically safe circuits but not in combination with non-intrinsically safe circuits.

TERMINALS

Weidmüller

Atex Delvalle mounts in Terbox Series, Weidmüller brand terminals.
We can also use other brands on request such as:

PHOENIX CONTACT · WAGO · ABB · legrand · Rockwell Automation

Delvalle offers users a wide range of accessories as ideal solutions for all possible tasks, even beyond the standard functions.

These accessories meet the same quality standards as the terminals themselves.

Visual separation endcaps | Signalling | Fixation | Electrical power supply | Electrical distribution | Testing | Specific functions, color variations

PROTECTION MODE

This box is certified for use in potentially explosive atmospheres of zones 1, 2, 21 and 22 and may be used with increased safety protection mode "Ex e" including increased safety connection terminals or enclosure protection mode "Ex t".

- Certificate empty box terminal:
  - LOM 14ATEX3027U
- Certificate Terbox:
  - LOM 17ATEX1012
- Certificate quality:
  - LOM 14ATEX9050
- II 2G Ex eb IIC T6/T5 Gb
- II 2D Ex tb IIIC T85°C/100°C Db
- Protection degree Nema 4X, 12, 3r and 1 by request
- Degree of resistance against impact IK10
- IP66 protection

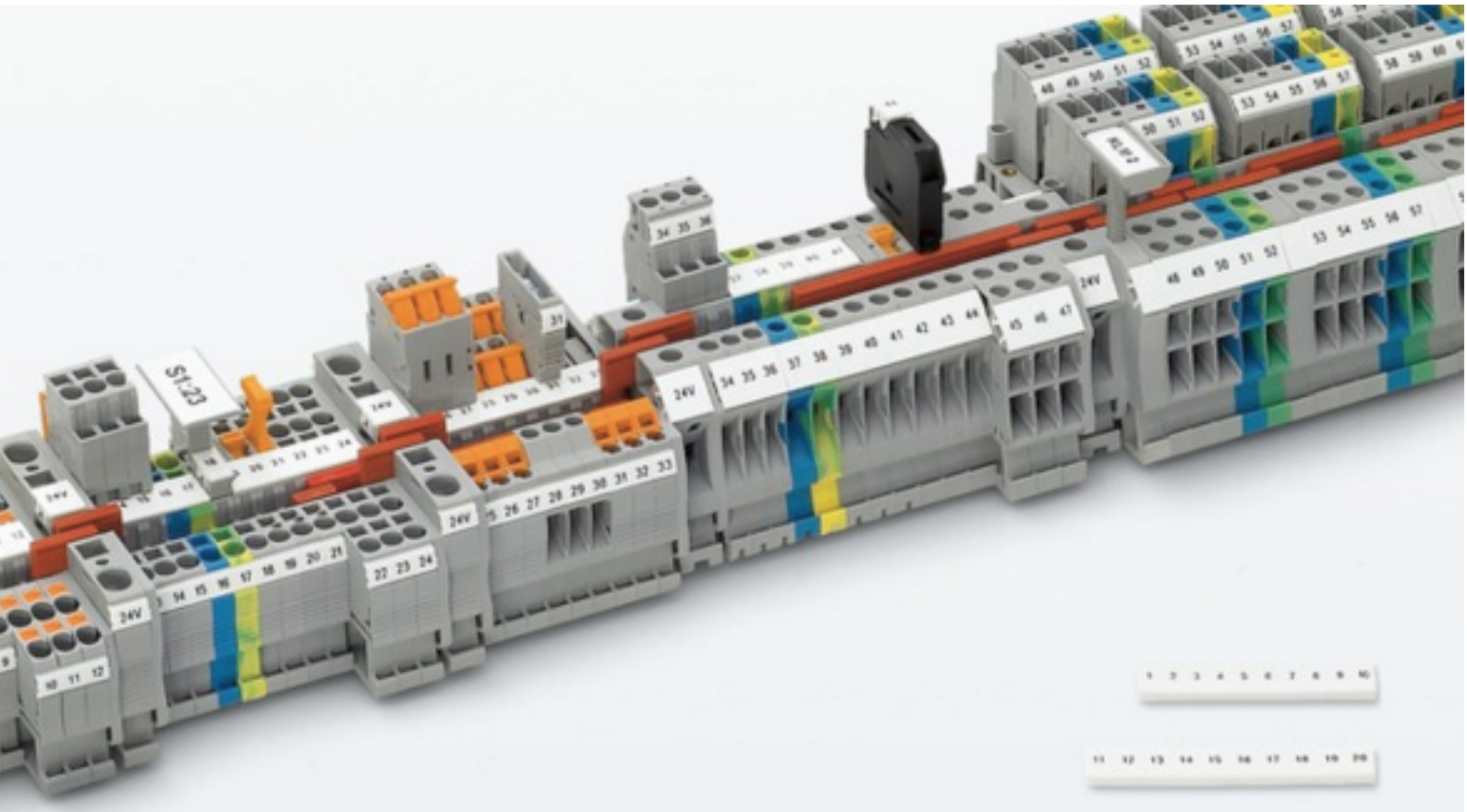
CERTIFICATION

Atex & IECEx directive and normative:

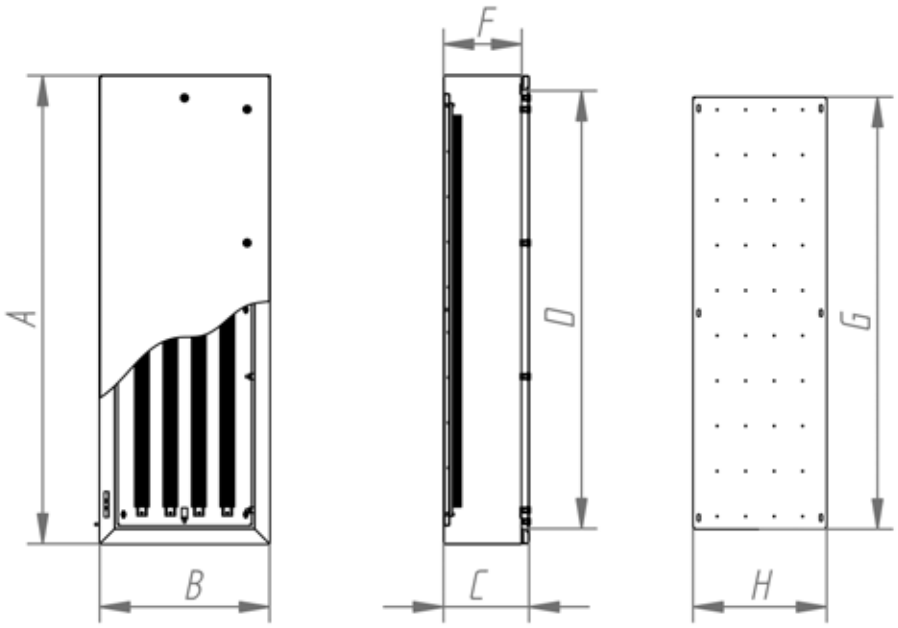
- Atex 2014/34/EU directive
- IP66 according to IEC Standard EN 62208 and EN 60529.
- IP (W) 66 corrosive environments.
- IEC 62208 and EN 62262. Degree of resistance against impact IK10.
- UNE-EN 60079-0:2011
- UNE-EN 60079-7:2007
- UNE-EN 60079-31:2014
- Operating temperature (ambience): -25° a ≤40°C.

NUMBER OF TERMINALS PER SIZE

REFERENCES	DIMENSIONS (mm)															
TERBOX TRIBEX	HEIGHT A	WIDTH B	DEPTH C	RAILS	1,5 mm²	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	70 mm²	95 mm²	120 mm²	240 mm²	300 mm²
TB126040EX	1200	600	400	4	950	760	640	500	400	320	240	70	70	70	54	48
TB128040EX		800														
TB121040EX		1000														
TB166040EX	1650	600			1340	1080	920	700	560	460	348	100	100	100	70	60
TB168040EX		800														
TB161040EX		1000														
TB186040EX	1800	600			1550	1260	1040	800	640	520	400	120	120	120	88	70
TB188040EX		800														
TB188050EX			500													
TB181040EX		1000	400													
TB181050EX			500													
TB206040EX	2000	600	400													
TB208040EX		800														
TB208050EX			500													
TB208010EX			1000													
TB201040EX		1000	400													
TB201060EX			600													
TB201010EX			1000													



BLUEPRINT AND DIMENSIONS



10 YEARS
STAINLESS ANTICORROSIVE **GUARANTEE**

5 YEARS
MECHANICAL PARTS **GUARANTEE**

REFERENCES

REFERENCES	DIMENSIONS (mm)							
TERBOX TRIBEX	HEIGHT A	WIDTH B	DEPTH C	INSIDE HEIGHT D	INSIDE WIDTH E	INSIDE DEPTH F	MACHINABLE SIDE AREA (F -15mm per side)	PLATE MESUREMENTS GxH
TB126040EX	1200	600	400	1116	546	370	340	1140x470
TB128040EX		800			746			1140x670
TB121040EX		1000			946			1140x870
TB166040EX	1650	600		1566	546			1590x470
TB168040EX		800			746			1590x670
TB161040EX		1000			946			1590x870
TB186040EX	1800	600		1716	546			1740x470
TB188040EX		800			746			1740x670
TB188050EX			500			470	440	
TB181040EX		1000	400		946	370	340	1740x870
TB181050EX			500			470	440	
TB206040EX	2000	600	400	1916	546	370	340	1940x470
TB208040EX		800			746			1940x670
TB208050EX			500			470	440	
TB208010EX			1000			970	940	
TB201040EX		1000	400		946	370	340	1940x870
TB201060EX			600			570	540	
TB201010EX			1000			970	940	

Separation depth plate 20mm

CABLE ENTRY COVER

ATEX IP65

Our Atex Cable trays keep IP65 protection (minimum).

An ideal complement when we do not know in advance the number of holes or glands to be fixed on the cabinet.

Cable entry cover. Luxorex, Tribex and Geoex models

CUSTOM MANUFACTURE

(Drilling holes for the placement of cable glands, plugs etc.)

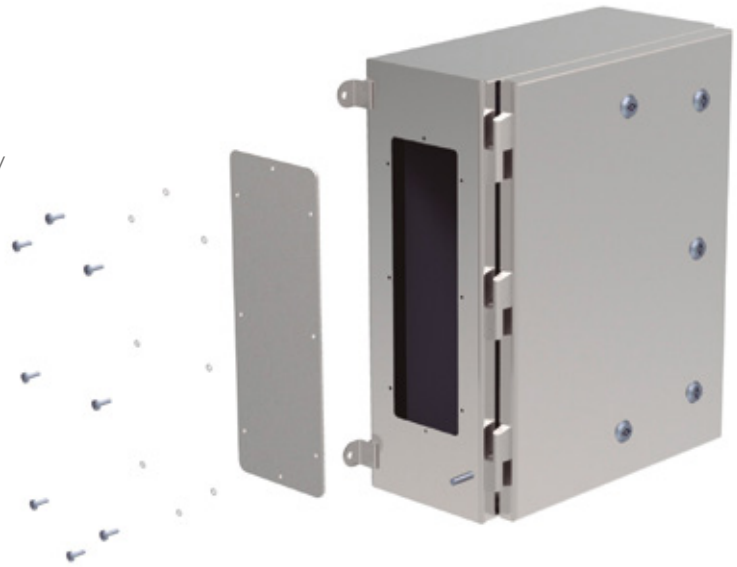
CABLE ENTRY COVER

ATEX IP65

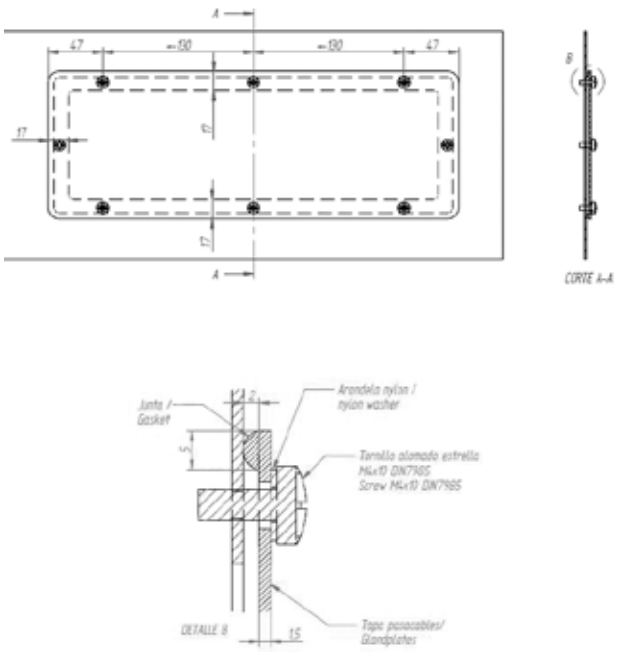
CHARACTERISTICS

MADE TO MEASURE

- Made in stainless steel.
- Custom-made: minimum size of 90mmx90mm and maximum size of 600mmx600mm (the widest range now available on the market).
- Thickness: Two options: 1.5 mm and 3 mm.
- Certified ATEX, Ex.
- Easy mounting with screws for easy drilling, keeping protection and ATEX safety.



BLUEPRINT AND DIMENSIONS



REFERENCES

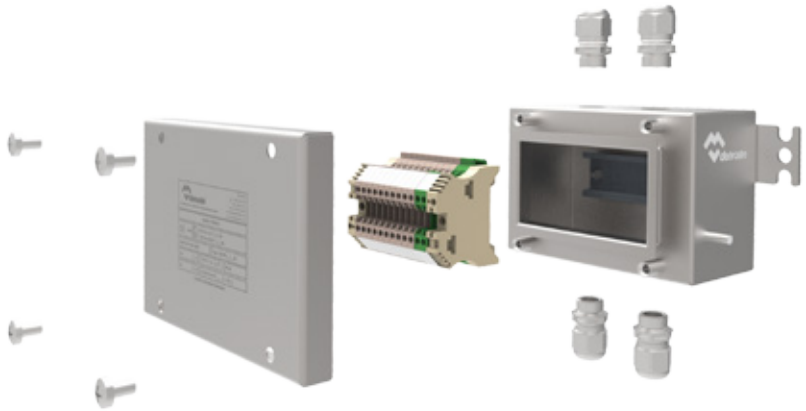
REFERENCES	DIMENSIONS (mm)			MACHINING
REFERENCES	HEIGHT -A-	WIDTH -B-	DEPTH -C-	MACHINABLE AREA (DxF)
TP909015EX	90	90	1,5	56x56
TP909030EX	90	90	3	56x56
TP149015EX	140	90	1,5	106x56
TP149030EX	140	90	3	106x56
TP259015EX	250	90	1,5	216x56
TP259030EX	250	90	3	216x56
TP351315EX	350	130	1,5	316x56
TP351330EX	350	130	3	316x56
TP503030EX	500	300	3	466x266
TP504030EX	500	400	3	466x366
TP606030EX	600	600	3	566x566

Intermediate measures allowed

Phone +34 945 601 381
atex@atexdelvalle.com | www.atexdelvalle.com

Zones 1, 2, 21 and 22

PRE-ASSEMBLED STAINLESS STEEL TERMINAL BOX TERBOX SERIES IP66



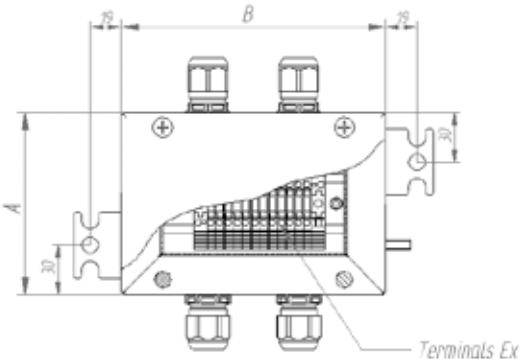
The terminal box or Atex Terbox are pre-assembled with 12 terminals (10 terminals 2,5mm, plus two ground terminals) installed on numbered DIN rail, with 4 cable glands to choose from. Atex & IECEx certified and ready for use in explosive atmospheres zones 1, 2, 21 and 22, are robust and anti-corrosive.

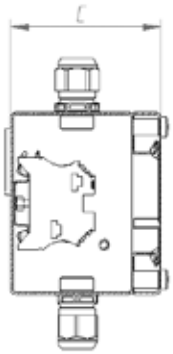
CHARACTERISTICS

- Pre-assembled Atex boxes made of stainless steel AISI 304L or AISI 316L.
- Installed terminals from Weidmüller brand.
- Access to the inside is facilitated thanks to the fastening of the cover with easy-to-install screws.
- External grounding of metric M6.
- Thickness 1.2mm (depending on boxes).

NORMATIVE

- Terbox Certified:
  - LOM 14ATEX2082
- II 2G Ex eb IIC T6/T5 Gb
- II 2D Ex tb IIIC T85°C/100°C Db
- Degree of resistance against impact IK10
- IP66 protection
- Working temperature (ambient): -25° a +60°C.





REFERENCE	DIMENSIONS (mm)						
IP66 TERBOX STAINLESS STEEL TERMINAL BOX	MEASUREMENTS (mm)			Nº OF TERMINALS		CABLE GLANDS	
	HEIGHT -A-	WIDTH -B-	DEPTH -C-	CLAMPS	GROUND	UNIT	METRIC
GEOTB111690EX.001	110	160	90	10	2	4	M20

Zones 1, 2, 21 and 22

CABLE GLANDS EX D/E

ATEX

Examples

The Most Powerful Security

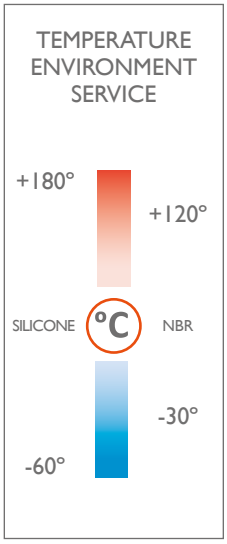
Cable glands Atex made by AtexDelvalle are used for passing, holding and compressing cables between two compartments, such as junction boxes, cabinets, electrical boxes or devices requiring sealing against dust, dirt or water.

FOR MORE INFORMATION CLICK HERE

CABLE GLANDS UNARMOURED IP66 - IP68

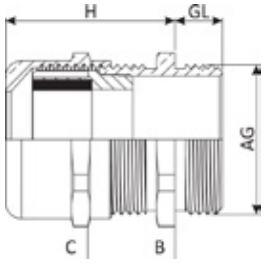
CABLE GLANDS UNARMOURED EX E IP66 - IP68

- Material:
  - Nickel plated*
  - Stainless steel AISI303L**
  - Stainless steel AISI316L**
- O-ring: NBR or silicone (optional)
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Exd/e I Mb
  - EN 60079-0:2009, 60079-1:2007, 60079-31:2009
- Protection class: EN 60529 IP66 / IP68
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC



Reference configured depending on the following parameters. Example: MCNAE16SIS6

1	+	2	+	3	+	4
Type **MCNAE**		Size		O-ring **NB**: NBR **SI**: Silicone (optional)		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L **S6**: Stainless steel AISI 316L
MCNAE		16		SI		S6



REFERENCES CABLE GLANDS UNARMOURED EX E

CABLE GLANDS UNARMOURED EX E	SIZE	ENTRY THREAD ISO 262 (AG)	CONIC THREADS NPT (AG)	CLAMPING RANGE (MM)		GL (mm)	(mm)		MINIMUM
				MIN.	MAX.		B	C	
MCNAE	12	M12x1,5	3/8"	3	6,5	6	14	14	50* 25**
MCNAE	16	M16x1,5	3/8"	4	8	7	18	17	
MCNAE	20	M20x1,5	1/2"	6	12	8	22	22	
MCNAE	25S	M25Sx1,5	3/4"	10	14	8	27	24	
MCNAE	25	M25x1,5	3/4"	13	18	8	30	30	
MCNAE	32	M32x1,5	1"	13	18	9	34	30	25* 10**
MCNAE	40	M40x1,5	1 1/4"	18	25	9	43	40	
MCNAE	50	M50x1,5	1 1/2"	22	32	9	55	50	
MCNAE	63S	M63Sx1,5	2"	33	44	14	68	64	
MCNAE	63	M63x1,5	2	45	55	15	70	75	
MCNAE	75S	M75Sx1,5	2 1/2"	45	55	15	85	75	10* 5**
MCNAE	75	M75x1,5	2 1/2"	50	63	20	90	90	
MCNAE	80	M75x1,5	3"	50	63	20	90	90	
MCNAE	90	M75x1,5	3"	60	70	20	100	100	

* Nickel plated

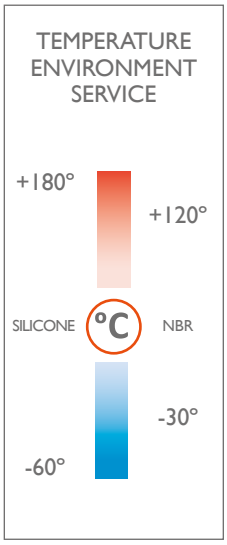
** Stainless steel AISI303L - Stainless steel AISI316L

CABLE GLANDS EX D/E

ATEX

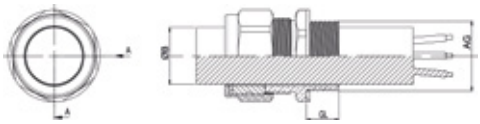
CABLE GLANDS UNARMOURED EX D/E IP66 - IP68

- Material:
  - Nickel plated*
  - Stainless steel AISI303L**
  - Stainless steel AISI316L**
- O-ring: NBR or silicone (optional)
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Exd/e I Mb
  - EN 60079-0:2009, 60079-1:2007, 60079-31:2009
- Protection class: EN 60529 IP66 / IP68
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC



Reference configured depending on the following parameters. Example: MCNA16SIS6

1	+	2	+	3	+	4
Type **MCNA**		Size		O-ring **NB**: NBR **SI**: Silicone (optional)		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L **S6**: Stainless steel AISI 316L
MCNA		16		SI		S6



REFERENCES CABLE GLANDS UNARMOURED EX D/E									
CABLE GLANDS UNARMOURED EX D/E	SIZE	ENTRY THREAD ISO 262 (AG)	CONIC THREADS NPT (AG)	B		GL (MIN. mm)	(mm)		MINIMUM
				MIN.	MAX.		C	B	
MCNA	16	M16x1,5	1/2"	6,1	11,6	15	20	24	50* 25**
MCNA	20S	M20Sx1,5	1/2"	6,1	13,2	15	24	24	
MCNA	20	M20x1,5	1/2"	9,5	15,9	15	24	24	
MCNA	25	M25x1,5	3/4"	12,5	20,5	15	30	30	
MCNA	32	M32x1,5	1"	18,2	26,2	15	38	38	
MCNA	40	M40x1,5	1 1/4"	23,7	33,9	15	45	45	25* 10**
MCNA	50	M50x1,5	1 1/2"	27,9	40,4	15	55	55	
MCNA	63S	M63Sx1,5	2"	40,4	51	15	70	70	
MCNA	63	M63x1,5	2 1/2"	47,2	55,9	15	70	80	
MCNA	75S	M75Sx1,5	2 1/2"	52,8	59	15	80	80	10* 5**
MCNA	75	M75x1,5	3"	59,1	67,9	15	90	100	

* Nickel plated

** Stainless steel AISI303L - Stainless steel AISI316L

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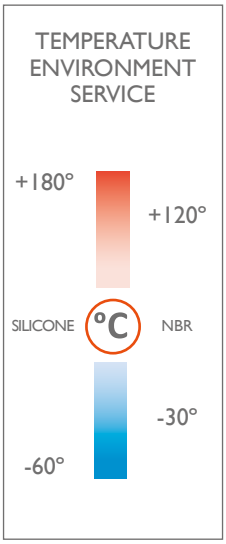
CABLE GLANDS ARMOURED EX D/E IP66 - IP68

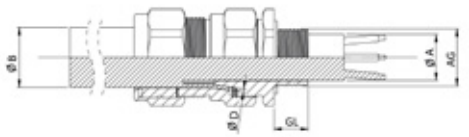
CABLE GLANDS ARMOURED EX D/E IP66 - IP68

- Material:
  - Nickel plated*
  - Stainless steel AISI303L**
  - Stainless steel AISI316L**
- O-ring: NBR or silicone (optional)
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Exd/e I Mb
  - EN 60079-0:2009, 60079-1:2007, 60079-31:2009
- Protection class: EN 60529 IP66 / IP68
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC



Reference configured depending on the following parameters. Example: MCGA116SIS6

1	+	2	+	3	+	4
Type **MCGA1**		Size		O-ring **NB**: NBR **SI**: Silicone (optional)		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L **S6**: Stainless steel AISI 316L
MCGA1		16		SI		S6



REFERENCES CABLE GLANDS ARMOURED EX D/E												
CABLE GLANDS ARMOURED EX D/E	SIZE	ENTRY THREAD		CONIC THREADS NPT (AG)	A (MIN.)	B		Ø D		GL (mm)	(mm)	MINIMUM
		ISO 262 (AG)	DIN 40430 (AG)			MIN.	MAX.	MIN.	MAX.			
MCGA1	16	M16x1,5	PG9	1/2"	8,6	6,1	13,2	0,8	1,0	15	24	50* 25**
MCGA1	20SS	M20SSx1,5	PG11SS	1/2"	8,6	6,1	13,2	0,8	1,0	15	24	
MCGA1	20S	M20Sx1,5	PG11S	1/2"	11,6	9,5	15,9	0,8	1,25	15	24	
MCGA1	20	M20x1,5	PG13,5	1/2"	13,9	12,5	20,9	0,8	1,25	15	30	
MCGA1	25S	M25Sx1,5	PG21S	3/4"	19,9	14	22	1,25	1,60	15	38	
MCGA1	25	M25x1,5	PG21	3/4"	19,9	18,2	26,2	1,25	1,60	15	38	
MCGA1	32	M32x1,5	PG29	1"	26,2	23,7	33,9	1,6	2,0	15	45	
MCGA1	40	M40x1,5	PG36S	1 1/4"	33,9	27,9	40,4	1,6	2,0	15	55	25* 10**
MCGA1	50S	M50Sx1,5	PG36	1 1/2"	38,1	35,2	46,7	2,0	2,5	15	60	
MCGA1	50	M50x1,5	PG42	2"	44,0	40,4	53,1	2,0	2,5	15	70	
MCGA1	63S	M63Sx1,5	PG48	2"	49,9	45,6	59,4	2,0	2,5	15	75	
MCGA1	63	M63x1,5	-	2 1/2"	55,9	54,6	65,9	2,0	2,5	15	80	
MCGA1	75S	M75Sx1,5	-	2 1/2"	61,9	59	72,1	2,0	2,5	15	90	10* 5**
MCGA1	75	M75x1,5	-	3"	67,9	66,7	78,5	2,5	3,0	15	100	
MCGA1	90	M90x2,0	-	3"	79,9	76,2	90,4	3,0	3,5	15	115	
MCGA1	100	M100x2,0	-	-	90	86,1	101,5	3,15	4,0	15	123	
MCGA1	115	M115x2,0	-	-	97,9	101,5	110,3	3,15	4,0	15	133	
MCGA1	130	M130x2,0	-	-	114,9	114,2	123,3	3,15	4,0	15	146	

* Nickel plated

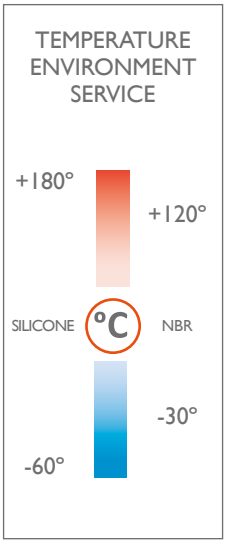
** Stainless steel AISI303L - Stainless steel AISI316L

CABLE GLANDS EX D/E

ATEX

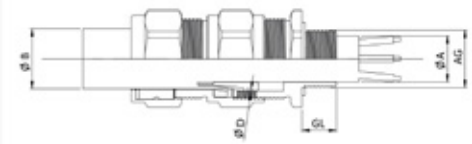
DOUBLE COMPRESSION CABLE GLANDS ARMOURED EX D/E IP66 - IP68

- Material:
  - Nickel plated*
  - Stainless steel AISI303L**
  - Stainless steel AISI316L**
- O-ring: NBR or silicone (optional)
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Exd/e I Mb
  - EN 60079-0:2009, 60079-1:2007, 60079-31:2009
- Protection class: EN 60529 IP66 / IP68
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC



Reference configured depending on the following parameters. Example: MCGA216SIS6

1	+	2	+	3	+	4
Type **MCGA2**		Size		O-ring **NB**: NBR **SI**: Silicone (optional)		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L **S6**: Stainless steel AISI 316L
MCGA2		16		SI		S6



REFERENCES DOUBLE COMPRESSION CABLE GLANDS ARMOURED EX D/E

DOUBLE COMPRESSION CABLE GLANDS ARMOURED EX D/E	SIZE	ENTRY THREAD		CONIC THREADS NPT (AG)	A		B		Ø D		GL (mm)	(mm)	MINIMUM
		ISO 262 (AG)	DIN 40430 (AG)		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.			
MCGA2	16	M16x1,5	PG9	1/2"	3,1	8,6	6,1	13,2	0,8	1,0	15	24	
MCGA2	20SS	M20SSx1,5	PG11SS	1/2"	3,1	8,6	6,1	13,2	0,8	1,0	15	24	
MCGA2	20S	M20Sx1,5	PG11S	1/2"	6,1	11,6	9,5	15,9	0,8	1,25	15	24	
MCGA2	20	M20x1,5	PG13,5	1/2"	6,5	13,9	12,5	20,9	0,8	1,25	15	30	50* 25**
MCGA2	25S	M25Sx1,5	PG21S	3/4"	11,1	19,9	14	22	1,25	1,60	15	38	
MCGA2	25	M25x1,5	PG21	3/4"	11,1	19,9	18,2	26,2	1,25	1,60	15	38	
MCGA2	32	M32x1,5	PG29	1"	18,2	26,2	23,7	33,9	1,6	2,0	15	45	
MCGA2	40	M40x1,5	PG36S	1 1/4"	23,7	33,9	27,9	40,4	1,6	2,0	15	55	
MCGA2	50S	M50Sx1,5	PG36	1 1/2"	29,5	38,1	35,2	46,7	2,0	2,5	15	60	
MCGA2	50	M50x1,5	PG42	2"	35,6	44,0	40,4	53,1	2,0	2,5	15	70	25* 10**
MCGA2	63S	M63Sx1,5	PG48	2"	40,1	49,9	45,6	59,4	2,0	2,5	15	75	
MCGA2	63	M63x1,5	-	2 1/2"	47,2	55,9	54,6	65,9	2,0	2,5	15	80	
MCGA2	75S	M75Sx1,5	-	2 1/2"	52,8	61,9	59	72,1	2,0	2,5	15	90	
MCGA2	75	M75x1,5	-	3"	59,1	67,9	66,7	78,5	2,5	3,0	15	100	
MCGA2	90	M90x2,0	-	3"	66,6	79,9	76,2	90,4	3,0	3,5	15	115	10* 5**
MCGA2	100	M100x2,0	-	-	76	90	86,1	101,5	3,15	4,0	15	123	
MCGA2	115	M115x2,0	-	-	86	97,9	101,5	110,3	3,15	4,0	15	133	
MCGA2	130	M130x2,0	-	-	97	114,9	114,2	123,3	3,15	4,0	15	146	

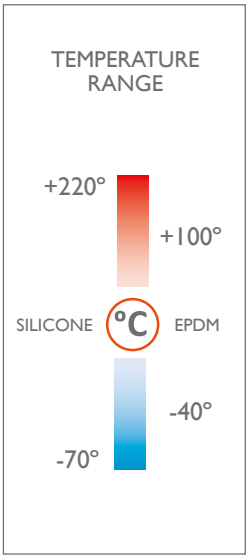
* Nickel plated

** Stainless steel AISI303L - Stainless steel AISI316L

BARRIER CABLE GLANDS UNARMOURED CABLE IP66 - IP68

BARRIER CABLE GLANDS UNARMOURED CABLE EX D IP66 - IP68

- Flameproof Ex d barrier cable glands sealed with sealing compound
- The sealing ring seals and blocks cable on the outer sheath
- Kit version includes complete series of the rubber seals accompanying the size
- Material:
  - Nickel-plated brass
  - Stainless steel AISI316L
- O-ring: EPDM or Silicone (optional)
- Marking:
  - Ex e II Ex d IIC Ex tD
  - Ex e I Ex d I
  - IExd IICx/2Exe IIX
- Protection class: IP66 - IP68
- Group II, category 2D, presence of combustible dust, zones 21 and 22
- Group II, category 2G, explosive gas atmosphere, zones 1and 2
- Mine: Group 1, category M2



COMPOUND APPLICATION / BARRIER

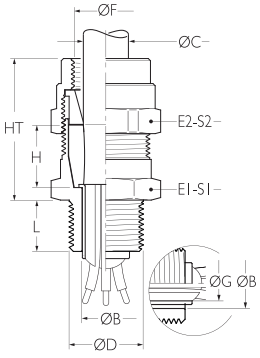
The tratament is composed by bi-syringe containing the two resin components, separetad and already dosed for the mixing, which occurs when the components pass inside the mixer.

Available upon request solid compound, this epoxy resin is offered in two separate parts, it dries in 4 hours and can be installation any orientation.

Reference configuration. Examples: MBCNA.M16.KIT.EP.S6 or MBCNA.G21/2.KIT.SI.ON

1	+	2	+	3	+	4	+	5
Type		Code		Kit		O-ring		Material
MBCNA		**M**: ISO 262 **G**: ISO 228 **PG**: DIN 40430 **NPT**: NPT **R**: EN 10226		**KIT**		**EP**: EPDM **SI**: Silicona (optional)		**ON**: Nickel-plated brass **S6**: Stainless steel AISI 316L
MBCNA		M16		KIT		EP		S6

ØG = ØB-2mm~



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CABLE GLANDS EX D/E

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BARRIER CABLE GLANDS UNARMOURED CABLE EX D IP66 - IP68

TYPE	SIZE	DIMENSIONS Ø MIN-MAX	CYLINDRICAL THREADS			CONIC THREADS		WEIGHT	ØF	HT	H	E1	S1	E2	S2
			ISO 262	ISO 228	DIN 40430	NPT	EN 10226								
MBCNA	16 (EP)	4 - 7	M12x1,5 **M16x1,5** M20x1,5	1/4" **3/8"** 1/2"	PG7 PG9 **PG11** PG13,5	1/4" **3/8"** 1/2"	1/4" **3/8"** 1/2"	94	16	38	20	24	26	24	26
MBCNA		7 - 10													
MBCNA	16 (SI)	4 - 6													
MBCNA		6 - 8													
MBCNA		8 - 10													
MBCNA	20 (EP-SI)	5,5 - 8	M16x1,5 **M20x1,5** M25x1,5	**1/2"** 3/4"	PG11 **PG13,5** PG16	**1/2"** 3/4"	**1/2"** 3/4"	156	20	40	20	30	33	32	35
MBCNA		8 - 10,5													
MBCNA		10,5 - 13													
MBCNA	25 (EP-SI)	8 - 10,5	M20x1,5 **M25x1,5**	**3/4"** 1"	**PG16** PG21	**3/4"** 1"	**3/4"** 1"	185	25	40	20	35	38	36	39
MBCNA		10,5 - 13													
MBCNA		13 - 15,5													
MBCNA		15,5 - 18													
MBCNA	32 (EP-SI)	13 - 15,5	M25x1,5 **M32x1,5**	**1"**	**PG21** PG29	**1"**	**1"**	340	32	52	25	42	47	45	49
MBCNA		15 - 18													
MBCNA		18 - 21													
MBCNA		21 - 24													
MBCNA	40 (EP-SI)	21 - 24	**M40x1,5**	**1 1/4"**	**PG29**	**1 1/4"**	**1 1/4"**	421	38	52	25	48	53	50	55
MBCNA		24 - 27													
MBCNA		27 - 30													
MBCNA	50 (EP-SI)	24 - 27	M40x1,5 **M50x1,5**	**1 1/2"**	**PG36**	**1 1/2"**	**1 1/2"**	537	44	52	25	55	60	57	62
MBCNA		27 - 30													
MBCNA		30 - 33													
MBCNA		33 - 36													
MBCNA	63 (EP-SI)	36 - 39	M50x1,5 **M63x1,5**	**2"**	**PG42** PG48	**2"**	**2"**	749	54	52	25	68	74	67	72
MBCNA		39 - 42													
MBCNA		42 - 45													
MBCNA	75 (EP-SI)	45 - 48	M63x1,5 **M75x1,5**	**2 1/2"**	**PG48**	**2 1/2"**	**2 1/2"**	1085	65	52	25	80	86	80	88
MBCNA		48 - 51													
MBCNA		51 - 54													
MBCNA	90a (EP-SI)	54 - 58	M75x1,5 **M90x2**	**3"**	/	**3"**	**3"**	2125	74	67	30	100	107	100	107
MBCNA		58 - 62													
MBCNA	90b (EP-SI)	60 - 64						1759	80	67		100	107	100	107
MBCNA		64 - 68													

Available upon request

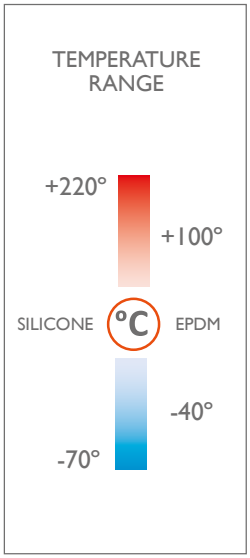
CABLE GLANDS EX D/E

ATEX

BARRIER CABLE GLANDS ARMOURED CABLE IP66 - IP68

BARRIER CABLE GLANDS ARMOURED CABLE EX D IP66 - IP68

- Flameproof Ex d barrier cable glands sealed with sealing compound
- The sealing ring seals and blocks cable on the outer sheath
- Kit version includes complete series of the rubber seals accompanying the size
- Material:
  - Nickel-plated brass
  - Stainless steel AISI316L
- O-ring: EPDM or Silicone (optional)
- Marking:
  - Ex e II Ex d IIC Ex tD
  - Ex e I Ex d I
  - I Exd IICx/2Exe IIX
- Protection class: IP66 - IP68
- Group II, category 2D, presence of combustible dust, zones 21 and 22
- Group II, category 2G, explosive gas atmosphere, zones 1 and 2
- Mine: Group I, category M2



COMPOUND APPLICATION / BARRIER

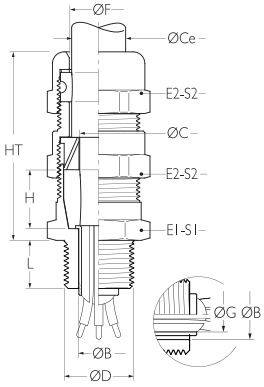
The tratament is composed by bi-syringe containing the two resin components, separetad and already dosed for the mixing, which occurs when the components pass inside the mixer.

Available upon request solid compound, this epoxy resin is offered in two separate parts, it dries in 4 hours and can be installation any orientation.

Reference configuration. Examples: MBCA.M16.KIT.EP.S6 or MBCA.G21/2.KIT.SI.ON

1	+	2	+	3	+	4	+	5
Type		Code		Kit		O-ring		Material
MBCA		**M**: ISO 262 **G**: ISO 228 **PG**: DIN 40430 **NPT**: NPT **R**: EN 10226		**KIT**		**EP**: EPDM **SI**: Silicona (optional)		**ON**: Nickel-plated brass **S6**: Stainless steel AISI 316L
MBCA		M16		KIT		EP		S6

ØG = ØB-2mm~



CABLE GLANDS EX D/E

ATEX

BARRIER CABLE GLANDS ARMOURED CABLE EX D IP66 - IP68

TYPE	SIZE	DIMENSIONS ØC MIN-MAX	DIMENSIONS ØCe MIN-MAX	CYLINDRICAL THREADS			CONIC THREADS		WEIGHT	ØF	HT	H	E1	S1	E2	S2
				ISO 262	ISO 228	DIN 40430	NPT	ISO 75								
MBCA	16 (EP)	4 - 7	5 - 10 10 - 15	M12x1,5 **M16x1,5** M20x1,5	1/4" **3/8"** 1/2"	PG7 PG9 **PG11** PG13,5	1/4" **3/8"** 1/2"	1/4" **3/8"** 1/2"	126	16	58	20	24	26	24	26
MBCA		7 - 10														
MBCA	16 (SI)	4 - 6														
MBCA		6 - 8														
MBCA		8 - 10														
MBCA	20 (EP-SI)	5,5 - 8	10 - 15 14 - 19	M16x1,5 **M20x1,5** M25x1,5	**1/2"** 3/4"	PG11 **PG13,5** PG16	**1/2"** 3/4"	**1/2"** 3/4"	228	20	64	20	30	33	32	35
MBCA		8 - 10,5														
MBCA		10,5 - 13														
MBCA	25 (EP-SI)	8 - 10,5	15 - 20 19 - 24	M20x1,5 **M25x1,5**	**3/4"** 1"	**PG16** PG21	**3/4"** 1"	**3/4"** 1"	264	25	64	20	35	38	36	39
MBCA		10,5 - 13														
MBCA		13 - 15,5														
MBNA		15,5 - 18														
MBCA	32 (EP-SI)	13 - 15,5	20 - 26 25 - 31	M25x1,5 **M32x1,5**	**1"**	**PG21** PG29	**1"**	1"	484	32	83	25	42	47	45	49
MBCA		15 - 18														
MBCA		18 - 21														
MBCA		21 - 24														
MBCA	40 (EP-SI)	21 - 24	26 - 32 31 - 37	**M40x1,5**	**1 1/4"**	**PG29**	**1 1/4"**	**1 1/4"**	576	38	83	25	48	53	50	55
MBCA		24 - 27														
MBCA		27 - 30														
MBCA	50 (EP-SI)	24 - 27	31 - 37 36 - 43	M40x1,5 **M50x1,5**	**1 1/2"**	**PG36**	**1 1/2"**	**1 1/2"**	730	44	83	25	55	60	57	62
MBCA		27 - 30														
MBCA		30 - 33														
MBCA		33 - 36														
MBCA	63 (EP-SI)	36 - 39	42 - 48 47 - 53	M50x1,5 **M63x1,5**	**2"**	**PG42** PG48	**2"**	**2"**	961	54	83	25	68	74	67	72
MBCA		39 - 42														
MBCA		42 - 45														
MBCA	75 (EP-SI)	45 - 48	52 - 58 52 - 64	M63x1,5 **M75x1,5**	**2 1/2"**	**PG48**	**2 1/2"**	**2 1/2"**	1392	65	83	25	80	86	80	88
MBCA		48 - 51														
MBCA		51 - 54														
MBCA	90a (EP-SI)	54 - 58	64 - 72	M75x1,5 **M90x2**	**3"**	/	**3"**	**3"**	3026	74	115	30	100	107	100	107
MBCA		58 - 62														
MBCA	90b (EP-SI)	60 - 64	70 - 78						2432	80	115		100	107	100	107
MBCA		64 - 68														

Available upon request

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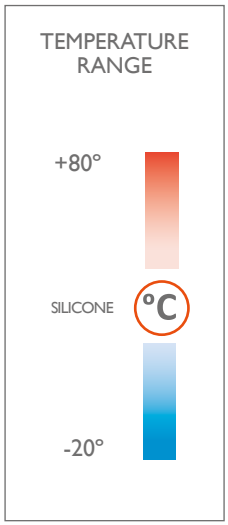
CABLE GLANDS EX D/E

ATEX

CABLE GLANDS POLYAMIDE

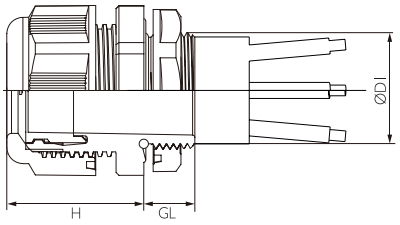
CABLE GLANDS POLYAMIDE EX/E IP68

- Material: Polyamide (Nylon) - UL 94 V-2
- O-ring Silicone
- Features: V2 (UL94), halogen free, not containing any cadmium phosphorus, UV-resistance and anti-aging test
- Marking:
  - Ex e IIC Gb
  - Ex tD A21 IP68
- Protection class: IP68
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC



Reference configuration. Examples: MVCG.M16.EXE.NY or MVCG.M40.EXE.NY

1	+	2	+	3	+	4
Type **MVCG**		Size		Atex **EXE**		Material **NY**
MVCG		M16		EXE		NY



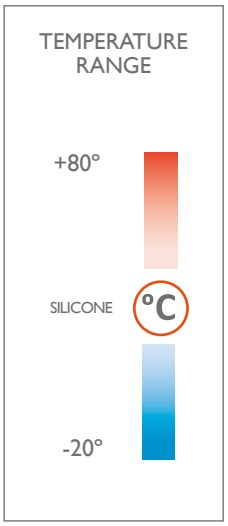
REFERENCES CABLE GLANDS POLYAMIDE EX/E								
CABLE GLANDS POLYAMIDE EX/E	SIZE	ENTRY THREAD ISO 262	CLAMPING RANGE		H (mm)	GL (mm)	(mm)	MINIMUM
			≥	≤				
MVCG	M12	M12x1,5	3	6,5	21	8	15	50
MVCG	M16	M16x1,5	5	10	25	8	22	
MVCG	M20	M20x1,5	10	14	28	9	27	
MVCG	M25	M25x1,5	13	18	31	11	33	
MVCG	M32	M32x1,5	18	25	37	11	42	25
MVCG	M40	M40x1,5	22	32	48	13	53	
MVCG	M50	M50x1,5	32	38	49	13	60	10
MVCG	M63	M63x1,5	37	44	49	14	65 / 68	

CABLE GLANDS EX D/E

ATEX

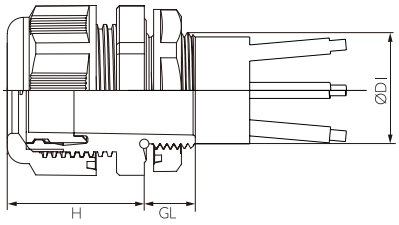
CABLE GLANDS ATEX INCREASED SECURITY POLYAMIDE EX/I IP68

- Material: Polyamide (Nylon) - UL 94 V-2
- O-ring Silicone
- Features: V2 (UL94), halogen free, not containing any cadmium phosphorus, UV-resistance and anti-aging test
- Normativa y marcaje:
  - Ex e IIC Gb
  - Ex tD A21 IP68
- Protection class: IP68
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC



Reference configuration. Examples: MVCG.M16.EX.AZ.NY or MVCG.M40.EX.AZ.NY

1	+	2	+	3	+	4
Type **MVCG**		Size		Atex **EX.AZ**		Material **NY**
MVCG		M16		EX.AZ		NY



REFERENCES CABLE GLANDS POLYAMIDE EX/I								
CABLE GLANDS POLYAMIDE EX/I	SIZE	ENTRY THREAD ISO 262	CLAMPING RANGE		H (mm)	GL (mm)	(mm)	MINIMUM
			≥	≤				
MVCG	M12	M12x1,5	3	6,5	21	8	15	50
MVCG	M16	M16x1,5	5	10	25	8	22	
MVCG	M20	M20x1,5	10	14	28	9	27	
MVCG	M25	M25x1,5	13	18	31	11	33	
MVCG	M32	M32x1,5	18	25	37	11	42	25
MVCG	M40	M40x1,5	22	32	48	13	53	
MVCG	M50	M50x1,5	32	38	49	13	60	10
MVCG	M63	M63x1,5	37	44	49	14	65 / 68	

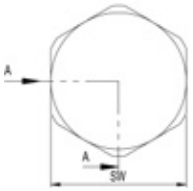
PLUGS

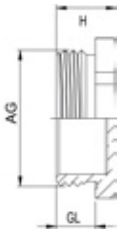
STOPPER PLUG EX D/E IP66 - IP68

- Material:
  - Nickel plated*
  - Stainless steel AISI303L**
  - Stainless steel AISI316L**
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Ex d/e I Mb
  - EN 60079-0 2009 /60079-1 2007/ 60079-31 2009
- Protection class: EN 60529 IP66 / IP68
- O-ring: NBR
- Application area: Zones 1, 2, 21 and 22 and Group Gas IIA, IIB and IIC
- Temperature range: -60°C to +200°C

Reference configured depending on the following parameters. Example: MVTCM16S6

1	+	2	+	3
Type **MVTC**		Code		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L **S6**: Stainless steel AISI 316L
MVTC		M16		S6





REFERENCES STOPPER PLUG						
STOPPER PLUG	CODE	SIZE	GL (MIN. mm)	H (mm)	SW (mm)	MINIMUM
MVTC	M12	M12x1,5	15	22	17	25* 10**
MVTC	M16	M16x1,5	15	22	22	
MVTC	M20	M20x1,5	15	22	24	
MVTC	M25	M25x1,5	15	22	30	
MVTC	M32	M32x1,5	15	22	36	10* 5**
MVTC	M40	M40x1,5	15	22	45	
MVTC	M50	M50x1,5	15	22	55	5* 1**
MVTC	M63	M63x1,5	15	22	70	
MVTC	M75	M75x1,5	15	22	80	
MVTC	M90	M90x2	20	27	95	
MVTC	M100	M100x2	20	27	110	
MVTC	N1/4	NPT1/4"	15	22	15	25* 10**
MVTC	N3/8	NPT3/8"	15	22	20	
MVTC	N1/2	NPT1/2"	15	22	24	
MVTC	N3/4	NPT3/4"	15	22	27	
MVTC	N1	NPT1"	15	22	35	10* 5**
MVTC	N11/4	NPT1 1/4"	15	22	45	
MVTC	N11/2	NPT1 1/2"	15	22	50	5* 1**
MVTC	N2	NPT2"	15	22	65	
MVTC	N21/2	NPT2 1/2"	20	27	75	
MVTC	N3	NPT3"	20	27	90	
MVTC	N4	NPT4"	20	27	115	

* Nickel plated

** Stainless steel AISI303L - Stainless steel AISI316L

CABLE GLANDS EX D/E

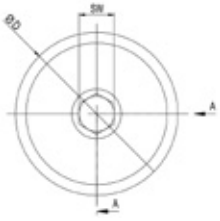
ATEX

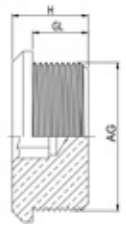
PLUG EX D/E IP66 - IP68

- Material:
  - Nickel plated*
  - Stainless steel AISI303L**
  - Stainless steel AISI316L**
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Ex d/e I Mb
  - EN 60079-0 2009 /60079-1 2007/ 60079-31 2009
- Protection class: EN 60529 IP66 / IP68
- O-ring: NBR
- Application area: Zones 1, 2, 21 and 22 and Group Gas IIA, IIB and IIC
- Temperature range: -60°C to +200°C

Reference configured depending on the following parameters. Example: MVTM16S6

1	+	2	+	3
Type **MVT**		Code		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L **S6**: Stainless steel AISI 316L
MVT		M16		S6





REFERENCES PLUGS EX D/E							
PLUG	CODE	SIZE	GL (MIN. mm)	H (mm)	D (mm)	SW (mm)	MINIMUM
MVT	M12	M12x1,5	15	21	17	6	25* 10**
MVT	M16	M16x1,5	15	21	22	8	
MVT	M20	M20x1,5	15	21	27	10	
MVT	M25	M25x1,5	15	21	30	10	
MVT	M32	M32x1,5	15	21	36	10	10* 5**
MVT	M40	M40x1,5	15	21	45	10	
MVT	M50	M50x1,5	15	21	55	10	5* 1**
MVT	M63	M63x1,5	15	21	68	10	
MVT	M75	M75x1,5	15	21	80	14	
MVT	M90	M90x2	20	26	95	14	
MVT	M100	M100x2	20	26	108	14	
MVT	N1/4	NPT1/4"	15	21	19	6	25* 10**
MVT	N3/8	NPT3/8"	15	21	23	8	
MVT	N1/2	NPT1/2"	15	21	27	10	
MVT	N3/4	NPT3/4"	15	21	32	10	
MVT	N1	NPT1"	15	21	39	10	10* 5**
MVT	N1 1/4	NPT1 1/4"	15	21	48	10	
MVT	N1 1/2	NPT1 1/2"	15	21	55	10	5* 1**
MVT	N2	NPT2"	15	21	65	10	
MVT	N2 1/2	NPT2 1/2"	20	26	78	14	
MVT	N3	NPT3"	20	26	95	14	
MVT	N4	NPT4"	20	26	120	14	

* Nickel plated

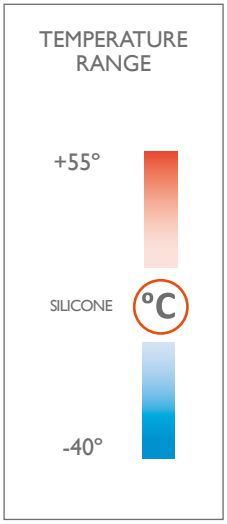
** Stainless steel AISI303L - Stainless steel AISI316L

CABLE GLANDS EX D/E

ATEX

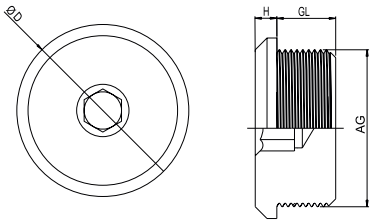
PLUG POLYAMIDE EX/E IP66 - IP68

- Material: Polyamide (Nylon)
- O-ring: Silicone
- Features: water proof
- Normative and marking:
  - Ex ellGb Ex tD A20
  - IEC - EN 60079
- Protection class: IP66
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC



Reference configuration. Examples: DVT.EX.M16.NY or DVT.EX.M40.N

1	+	2	+	3	+	4
Type **DVT**		Atex **EX**		Size		Material **NY**
DVT		EX		M16		NY



REFERENCES PLUG POLYAMIDE EX/E						
PLUG POLYAMIDE EX/E	SIZE	ENTRY THREAD ISO 262 (AG)	GL	H	ØD	MINIMUM
DVT	M16	M16x1,5	14	4	22	100
DVT	M20	M20x1,5	15	4	26,4	
DVT	M25	M25x1,5	15	4	31,9	
DVT	M32	M32x1,5	16	5,5	39,6	50
DVT	M40	M40x1,5	16	5,5	50,6	
DVT	M50	M50x1,5	16	5,5	60,5	25
DVT	M 63	M63x1,5	19	7,5	74,8	

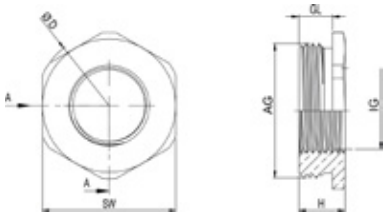
ADAPTERS EX D/E IP66 - IP68

ADAPTER 1 EX D/E IP66 - IP68

- Material:
  - Nickel plated
  - Stainless steel AISI303L
  - Stainless steel AISI316L
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Ex d/e I Mb
  - EN 60079-0 2009 /60079-1 2007/ 60079-31 2009
- Protection class: EN 60529 IP66 / IP68
- O-ring: NBR
- Application area: Zones 1, 2, 21 and 22 and Group Gas IIA, IIB and IIC
- Temperature range: -60°C to +200°C

Reference configured depending on the following parameters. Example: MVAD1M40N1S6

1	+	2	+	3
Type **MVAD1** MVAD1		Code M40N1		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L **S6**: Stainless steel AISI 316L S6



REFERENCES ADAPTER 1 EX D/E						
ADAPTER 1	CODE	SIZE AG (M)	SIZE IG (F)	GL (MIN. mm)	H (mm)	SW (mm)
MVAD1	M16N1/4	M16x1,5	NPT1/4"	15	19	22
MVAD1	M20N1/4	M20x1,5	NPT1/4"	15	19	25
MVAD1	M25N1/2	M25x1,5	NPT1/2"	15	19	30
MVAD1	M32N1/2	M32x1,5	NPT1/2"	15	19	36
MVAD1	M32N3/4	M32x1,5	NPT3/4"	15	19	36
MVAD1	M40N3/4	M40x1,5	NPT3/4"	18	22	45
MVAD1	M40N1	M40x1,5	NPT1"	18	22	45
MVAD1	M50N1	M50x1,5	NPT1"	18	23	55
MVAD1	M50N1 1/4	M50x1,5	NPT1 1/4"	18	23	55
MVAD1	M63N1 1/4	M63x1,5	NPT1 1/4"	18	23	70
MVAD1	M63N1 1/2	M63x1,5	NPT1 1/2"	18	23	70
MVAD1	M75N1 1/2	M75x1,5	NPT1 1/2"	18	24	85
MVAD1	M75N2	M75x1,5	NPT2"	18	24	85
MVAD1	M90N2	M90x1,5	NPT2"	21	29	100
MVAD1	M90N2 1/2	M90x1,5	NPT2 1/2"	21	29	100
MVAD1	M110N2 1/2	M110x1,5	NPT2 1/2"	21	31	120
MVAD1	M110N3	M110x1,5	NPT3"	21	31	120
MVAD1	N3/8MM12	NPT3/8"	M12x1,5	15	19	22
MVAD1	N1/2M12	NPT1/2"	M12x1,5	15	19	25
MVAD1	N1/2M16	NPT1/2"	M16x1,5	15	19	25
MVAD1	N3/4M16	NPT3/4"	M16x1,5	15	19	30
MVAD1	N3/4M20	NPT3/4"	M20x1,5	15	19	30
MVAD1	N1M20	NPT1"	M20x1,5	15	19	36
MVAD1	N1M25	NPT1"	M25x1,5	15	19	36
MVAD1	N1 1/4M25	NPT1 1/4"	M25x1,5	18	18	45
MVAD1	N1 1/4M32	NPT1 1/4"	M32x1,5	18	18	45
MVAD1	N1 1/2M32	NPT1 1/2"	M32x1,5	18	18	55
MVAD1	N1 1/2M40	NPT1 1/2"	M40x1,5	18	18	55
MVAD1	N2M40	NPT2"	M40x1,5	18	18	65
MVAD1	N2M50	NPT2"	M50x1,5	18	18	65
MVAD1	N2 1/2M50	NPT2 1/2"	M50x1,5	18	18	75
MVAD1	N2 1/2M63	NPT2 1/2"	M63x1,5	18	18	75
MVAD1	N3M63	NPT3"	M63x1,5	21	21	95
MVAD1	N3M75	NPT3"	M75x1,5	21	21	95
MVAD1	N4M75	NPT4"	M75x1,5	21	21	120
MVAD1	N4M90	NPT4"	M90x1,5	21	21	120

Available upon request

CABLE GLANDS EX D/E

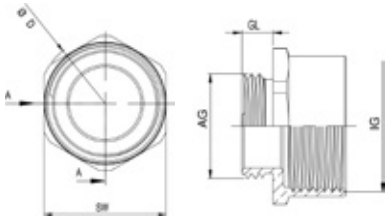
ATEX

ADAPTER EX D/E IP66 - IP68

- Material:
  - Nickel plated
  - Stainless steel AISI303L
  - Stainless steel AISI316L
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Ex d/e I Mb
  - EN 60079-0 2009 /60079-1 2007/ 60079-31 2009
- Protection class: EN 60529 IP66 / IP68
- O-ring: NBR
- Application area: Zones 1, 2, 21 and 22 and Group Gas IIA, IIB and IIC
- Temperature range: -60°C to +200°C

Reference configured depending on the following parameters. Example: MVADM40N1S6

1	+	2	+	3
Type **MVAD** MVAD		Code M40N1		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L **S6**: Stainless steel AISI 316L S6



REFERENCES ADAPTER EX D/E						
ADAPTER	CODE	SIZE AG (M)	SIZE IG (F)	GL (MIN. mm)	H (mm)	SW (mm)
MVAD	M12N1/4	M12x1,5	NPT1/4"	15	33,5	18
MVAD	M12N3/8	M12x1,5	NPT3/8"	15	33,5	20
MVAD	M16N3/8	M16x1,5	NPT3/8"	15	33,5	20
MVAD	M16N1/2	M16x1,5	NPT1/2"	15	34	25
MVAD	M20N1/2	M20x1,5	NPT1/2"	15	34	25
MVAD	M20N3/4	M20x1,5	NPT3/4"	15	34	30
MVAD	M25N3/4	M25x1,5	NPT3/4"	15	34	30
MVAD	M25N1	M25x1,5	NPT1"	15	34	36
MVAD	M32N1	M32x1,5	NPT1"	15	34	36
MVAD	M32N1 1/4	M32x1,5	NPT1 1/4"	15	37	45
MVAD	M40N1 1/4	M40x1,5	NPT1 1/4"	18	40	45
MVAD	M40N1 1/2	M40x1,5	NPT1 1/2"	18	40	55
MVAD	M50N1 1/2	M50x1,5	NPT1 1/2"	18	40	55
MVAD	M50N2	M50x1,5	NPT2"	18	40,5	65
MVAD	M63N2	M63x1,5	NPT2"	18	40,5	70
MVAD	M63N2 1/2	M63x1,5	NPT2 1/2"	18	40,5	80
MVAD	M75N2 1/2	M75x1,5	NPT2 1/2"	18	40,5	80
MVAD	M75N3	M75x1,5	NPT3"	18	43,5	95
MVAD	M90N3	M90x1,5	NPT3"	21	47	95
MVAD	M90N4	M90x1,5	NPT4"	21	47	120
MVAD	M110N4	M110x1,5	NPT4"	21	47	120
MVAD	N1/4M12	NPT1/4"	M12x1,5	15	33	18
MVAD	N1/4M16	NPT1/4"	M16x1,5	15	33,5	22
MVAD	N3/8M16	NPT3/8"	M16x1,5	15	33,5	22
MVAD	N3/8M20	NPT3/8"	M20x1,5	15	34	25
MVAD	N1/2M20	NPT1/2"	M20x1,5	15	34	25
MVAD	N1/2M25	NPT1/2"	M25x1,5	15	34	30
MVAD	N3/4M25	NPT3/4"	M25x1,5	15	34	30
MVAD	N3/4M32	NPT3/4"	M32x1,5	15	34	36
MVAD	N1M32	NPT1"	M32x1,5	15	34	36
MVAD	N1M40	NPT1"	M40x1,5	15	37	45
MVAD	N1 1/4M40	NPT1 1/4"	M40x1,5	18	40	45
MVAD	N1 1/4M50	NPT1 1/4"	M50x1,5	18	40	55
MVAD	N1 1/2M50	NPT1 1/2"	M50x1,5	18	40	55
MVAD	N1 1/2M63	NPT1 1/2"	M63x1,5	18	40,5	70
MVAD	N2M63	NPT2"	M63x1,5	18	40,5	70
MVAD	N2M75	NPT2"	M75x1,5	18	40,5	80
MVAD	N2 1/2M75	NPT2 1/2"	M75x1,5	18	40,5	80
MVAD	N2 1/2M90	NPT2 1/2"	M90x1,5	18	44	95
MVAD	N3M90	NPT3"	M90x1,5	21	47	95
MVAD	N3M110	NPT3"	M110x1,5	21	47	115
MVAD	N4M110	NPT4"	M110x1,5	21	47	120

Available upon request

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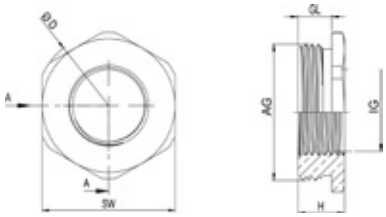
REDUCERS EX D/E IP66 - IP68

REDUCER EX D/E IP66 - IP68

- Material: nickel plated, stainless steel AISI303L and stainless steel AISI316L
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da 1 M2 Ex d/e I Mb
  - EN 60079-0 2009 /60079-1 2007/ 60079-31 2009
- Protection class: EN 60529 IP66 / IP68
- O-ring: NBR
- Application area: Zones 1, 2, 21 and 22 and Group Gas IIA, IIB and IIC
- Temperature range: -60°C to +200°C

Reference configured depending on the following parameters. Example: MVAD1M16M12S6

1	+	2	+	3
Type **MVAD1** MVAD1		Code M16M12		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L **S6**: Stainless steel AISI 316L S6



REFERENCES REDUCER EX D/E						
REDUCER	CODE	SIZE AG (M)	SIZE IG (F)	GL (MIN. mm)	H (mm)	SW (mm)
MVAD1	M16M12	M16x1,5	M12x1,5	15	19	22
MVAD1	M20M12	M20x1,5	M12x1,5	15	19	25
MVAD1	M20M16	M20x1,5	M16x1,5	15	19	25
MVAD1	M25M16	M25x1,5	M16x1,5	15	19	30
MVAD1	M25M20	M25x1,5	M20x1,5	15	19	30
MVAD1	M32M20	M32x1,5	M20x1,5	15	19	36
MVAD1	M32M25	M32x1,5	M25x1,5	15	19	36
MVAD1	M40M25	M40x1,5	M25x1,5	18	22	45
MVAD1	M40M32	M40x1,5	M32x1,5	18	22	45
MVAD1	M50M32	M50x1,5	M32x1,5	18	23	55
MVAD1	M50M40	M50x1,5	M40x1,5	18	23	55
MVAD1	M63M40	M63x1,5	M40x1,5	18	23	70
MVAD1	M63M50	M63x1,5	M50x1,5	18	23	70
MVAD1	M75M50	M75x1,5	M50x1,5	18	24	85
MVAD1	M75M63	M75x1,5	M63x1,5	18	24	85
MVAD1	M90M63	M90x1,5	M63x1,5	21	29	100
MVAD1	M90M75	M90x1,5	M75x1,5	21	29	100
MVAD1	M110M75	M110x1,5	M75x1,5	21	31	120
MVAD1	M110M90	M110x1,5	M90x1,5	21	31	120
MVAD1	N3/8N1/4	NPT3/8"	NPT1/4"	15	19	22
MVAD1	N1/2N1/4	NPT1/2"	NPT1/4"	15	19	25
MVAD1	N1/2N3/8	NPT1/2"	NPT3/8"	15	19	25
MVAD1	N3/4N3/8	NPT3/4"	NPT3/8"	15	19	30
MVAD1	N3/4N1/2	NPT3/4"	NPT1/2"	15	19	30
MVAD1	N1N1/2	NPT1"	NPT1/2"	15	19	36
MVAD1	N1N3/4	NPT1"	NPT3/4"	15	19	36
MVAD1	N1 1/4N1/2	NPT1 1/4"	NPT1/2"	18	22	45
MVAD1	N1 1/4N3/4	NPT1 1/4"	NPT3/4"	18	22	45
MVAD1	N1 1/4N1	NPT1 1/4"	NPT1"	18	22	45
MVAD1	N1 1/2N1/2	NPT1 1/2"	NPT1/2"	18	23	55
MVAD1	N1 1/2N3/4	NPT1 1/2"	NPT3/4"	18	23	55
MVAD1	N1 1/2N1	NPT1 1/2"	NPT1"	18	23	55
MVAD1	N1 1/2N1 1/4	NPT1 1/2"	NPT1 1/4"	18	23	55
MVAD1	N2N1 1/4	NPT2"	NPT1 1/4"	18	23	65
MVAD1	N2N1 1/2	NPT2"	NPT1 1/2"	18	23	65
MVAD1	N2 1/2N1 1/2	NPT2 1/2"	NPT1 1/2"	18	24	75
MVAD1	N2 1/2N2	NPT2 1/2"	NPT2"	18	24	75
MVAD1	N3N2	NPT3"	NPT2"	21	29	95
MVAD1	N3N2 1/2	NPT3"	NPT2 1/2"	21	29	95
MVAD1	N4N2 1/2	NPT4"	NPT2 1/2"	21	31	120
MVAD1	N4N3	NPT4"	NPT3"	21	31	120

Available upon request

CABLE GLANDS EX D/E

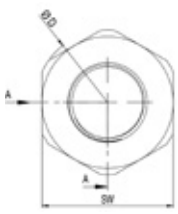
ATEX

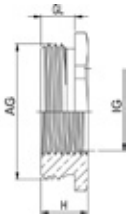
ENLARGER - REDUCER EX D/E IP66 - IP68

- Material: nickel plated, stainless steel AISI303L and stainless steel AISI316L
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da 1 M2 Ex d/e I Mb
  - EN 60079-0 2009 /60079-1 2007/ 60079-31 2009
- Protection class: EN 60529 IP66 / IP68
- O-ring: NBR
- Application area: Zones 1, 2, 21 and 22 and Group Gas IIA, IIB and IIC
- Temperature range: -60°C to +200°C

Reference configured depending on the following parameters. Example: MVADM12M12S6

1	+	2	+	3
Type **MVAD** MVAD		Code M12M12		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L **S6**: Stainless steel AISI 316L S6





REFERENCES ENLARGER - REDUCER EX D/E

ENLARGER - REDUCER	CODE	SIZE AG (M)	SIZE IG (F)	GL (MIN. mm)	H (mm)	SW (mm)
MVAD	M12M12	M12x1,5	M12x1,5	15	33,5	18
MVAD	M12M16	M12x1,5	M16x1,5	15	33,5	22
MVAD	M16M16	M16x1,5	M16x1,5	15	33,5	22
MVAD	M12M20	M12x1,5	M20x1,5	15	34	25
MVAD	M16M20	M16x1,5	M20x1,5	15	34	25
MVAD	M20M20	M20x1,5	M20x1,5	15	34	25
MVAD	M16M25	M16x1,5	M25x1,5	15	34	30
MVAD	M20M25	M20x1,5	M25x1,5	15	34	30
MVAD	M25M25	M25x1,5	M25x1,5	15	34	30
MVAD	M20M32	M20x1,5	M32x1,5	15	34	36
MVAD	M25M32	M25x1,5	M32x1,5	15	34	36
MVAD	M32M32	M32x1,5	M32x1,5	15	34	36
MVAD	M25M40	M25x1,5	M40x1,5	15	37	45
MVAD	M32M40	M32x1,5	M40x1,5	15	37	45
MVAD	M40M40	M40x1,5	M40x1,5	18	40	45
MVAD	M32M50	M32x1,5	M50x1,5	15	37	55
MVAD	M40M50	M40x1,5	M50x1,5	18	40	55
MVAD	M50M50	M50x1,5	M50x1,5	18	40	55
MVAD	M50M63	M50x1,5	M63x1,5	18	40,5	70
MVAD	M63M63	M63x1,5	M63x1,5	18	40,5	70
MVAD	M63M75	M63x1,5	M75x1,5	18	40,5	80
MVAD	M75M75	M75x1,5	M75x1,5	18	40,5	85
MVAD	M75M90	M75x1,5	M90x1,5	18	43,5	95
MVAD	M90M90	M90x1,5	M90x1,5	21	47	95
MVAD	M90M110	M90x1,5	M110x1,5	21	47	115
MVAD	M110M110	M110x1,5	M110x1,5	21	47	120
MVAD	N1/4N1/4	NPT1/4"	NPT1/4"	15	33	18
MVAD	N1/4N3/8	NPT1/4"	NPT3/8"	15	33,5	20
MVAD	N3/8N3/8	NPT3/8"	NPT3/8"	15	33,5	20
MVAD	N3/8N1/2	NPT3/8"	NPT1/2"	15	34	25
MVAD	N1/2N1/2	NPT1/2"	NPT1/2"	15	34	25
MVAD	N1/2N3/4	NPT1/2"	NPT3/4"	15	34	30
MVAD	N3/4N3/4	NPT3/4"	NPT3/4"	15	34	32
MVAD	N3/4N1	NPT3/4"	NPT1"	15	34	36
MVAD	N1N1	NPT1"	NPT1"	15	34	36
MVAD	N1N1 1/4	NPT1"	NPT1 1/4"	15	37	45
MVAD	N1 1/4N1 1/4	NPT1 1/4"	NPT1 1/4"	18	40,5	45
MVAD	N1 1/4N1 1/2	NPT1 1/4"	NPT1 1/2"	18	40,5	55
MVAD	N1 1/2N1 1/2	NPT1 1/2"	NPT1 1/2"	18	40,5	55
MVAD	N1 1/2N2	NPT1 1/2"	NPT2"	18	40,5	65
MVAD	N2N2	NPT2"	NPT2"	18	40,5	65
MVAD	N2N2 1/2	NPT2"	NPT2 1/2"	18	40,5	80
MVAD	N2 1/2N2 1/2	NPT2 1/2"	NPT2 1/2"	18	40,5	80
MVAD	N2 1/2N3	NPT2 1/2"	NPT3"	18	43,5	95
MVAD	N3N3	NPT3"	NPT3"	21	47	95
MVAD	N3N4	NPT3"	NPT4"	21	47	120
MVAD	N4N4	NPT4"	NPT4"	21	47	120

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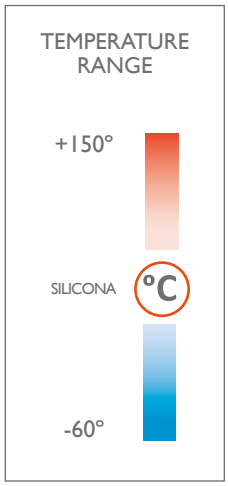
VALVES IP66

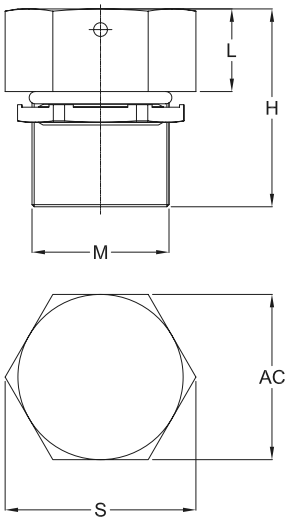
AUTOMATIC BREATHER AND DRAINAGE HAZARDOUS AREA VALVES ATEX IP66

- Valves are suitable to be used on increased safety, intrinsically safety or watertight enclosures to facilitate the elimination of condensation or vapors developed inside. We recomended minimun 2 units per enclosure
- Material: stainless steel AISI316 o Nickel-plated brass
- Internal filter: stainless steel
- Gaskets: silicone
- Internal seeger: stainless steel
- Normative and marking:
  - II 2GD Ex eb IIC Gb
  - Ex tb IIIC Db
  - EN 60079-14
  - IEC 60079-0: 2011 / 60079-7:2015 / IEC 60079-31: 2013
  - Directive 2014/34/UE
  - EN 60079-0: 2012 / 60079-7: 2015 / 60079-31: 2014
- Protection class: IP66



HOW VALVE WORKS

IP66 Waterproof Anti-condensation valve to facilitate air circulation by convection inside the modules, preventing the formation of condensation. Pressure differences in enclosures with a high degree of protection from moisture and dust, are the result of fluctuations in internal and external temperature. If negative pressure or vacuum dust and moisture can be absorbed by the sealed doors and can enter the hazardous area enclosure. Because moisture can not escape, condensation can occur. Allows to regulate the pressure to prevent condensation following an increase in the internal temperature.



REFERENCES AUTOMATIC BREATHER AND DRAINAGE HAZARDOUS AREA VALVES ATEX								
REFERENCES	USE	MATERIAL	DIMENSIONS (mm)					MINIMUM
			M	AC	S	H	L	
MVVAC04B.M20.S6.Ex	Breather	Stainless steel	M20x1,5	24	28	26	12	20
MVVAC04D.M20.S6.Ex	Drainage		M20x1,5	24	28	26	12	
MVVAC04B.M20.ON.Ex	Breather	Nickel-plated brass	M20x1,5	24	28	26	12	50
MVVAC04D.M20.ON.Ex	Drainage		M20x1,5	24	28	26	12	

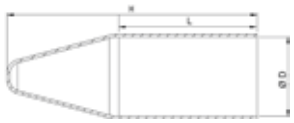
ACCESSORIES

SHROUD IP66 - IP68

- Material:
  - TPV
  - PVC
  - LSF
- Protection class:
  EN 60529 IP66 / IP68
- Temperature range:
  -20°C to +80°C

Reference configuration. Ex.: MVSHRM16LSF

1	+	2	+	3
Type **MVSHR**		Size		Material **TPV**: TPV **PVC**: PVC **LSF**: LSF
MVSHR		M16		LSF



REFERENCES SHROUD				
SHROUD	SIZE	ØD (mm)	H (mm)	L (mm)
MVSHR	M16	25	100	60
MVSHR	M20	32	110	65
MVSHR	M25	41	130	70
MVSHR	M32	49	145	77
MVSHR	M40	60	170	85
MVSHR	M50S	65	155	86
MVSHR	M50	75	175	92
MVSHR	M63S	81	180	92
MVSHR	M63	86	180	92
MVSHR	M75S	100	220	115
MVSHR	M75	110	220	115

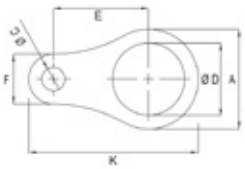
Available upon request

EARTH TAG

- Material:
  - Nickel plated
  - Stainless steel AISI303L
- Temperature range:
  -40°C to +100°C

Reference configuration. Ex.: MVTTM16ON

1	+	2	+	3
Type **MVTT**		Size		Material **ON**: Nickel plated **S3**: Stainless steel AISI303L
MVTT		M16		ON



REFERENCES EARTH TAG								
EARTH TAG	SIZE	A (mm)	ØD (mm)	ØC (mm)	F (mm)	K (mm)	E (mm)	T (mm)
MVTT	M16	25,4	16,5	6,5	12,5	49	30	1
MVTT	M20	27	20,5	6,5	10,2	51,6	33	1
MVTT	M25	35	25,5	6,5	13,5	60	35,5	1
MVTT	M32	45	32,5	10,5	22,5	76,75	43	1
MVTT	M40	53,5	40,5	10,5	23,6	83,5	45	1
MVTT	M50	65	50,5	10,5	29,5	105,25	58	1
MVTT	M63	82	63,5	10,5	29,5	122,75	67	1
MVTT	M75	96	75,5	6,5	24	-	73	1,5
MVTT	M90	114	90,5	6,5	37	-	86	1,5

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