



it's cool to be safe
explosion proof solution for the global market

Supermec

explosion proof electrical equipment





GUA

CSD

GUB - A

GUBA - A

GUBA - S

EJB - A

EJB - S

ECS

UH - UP

CSE - A

CSE - P

CSE - S

WH - WP - WA

UVB - UVD

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explosion proof electrical equipment



SUPER CONTROL

The equipment we introduce in this catalogue are designed to satisfy most of our clients' requirements to CONTROL explosion proof electrical equipment.

All equipment are manufactured using the latest technologies, both mechanical and electrical, using materials able to resist in most highly corrosive environment and to ensure a modern functionality solution and a long duration of investment.



CSD

CSD A series enclosures are normally used in the chemical and petrochemical plants, off-shore platforms, refineries and any other industry where hazardous atmospheres (gas and combustible dust) are potentially present. The CSD A range has been designed to meet the main requirements of power distribution and other electrical functions inside the hazardous area of the plant.





Use

CSD series can be used in the conduit system installation as simple pulling boxes or equipped with multipolar or modular terminal blocks as junction boxes.

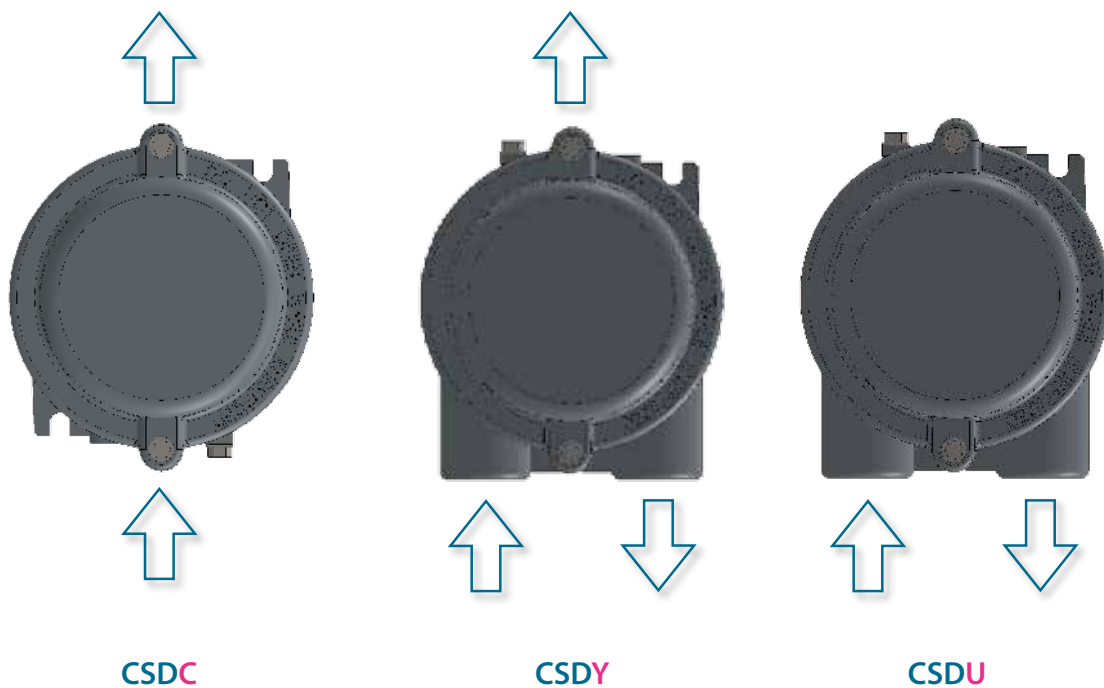
There are three possible hub configurations with two different thread size and type to satisfy any installation requirements.

Construction

The materials used to manufacture the CSD series have been studied to grant the maximum protection against the highly corrosive agents present in these industries:

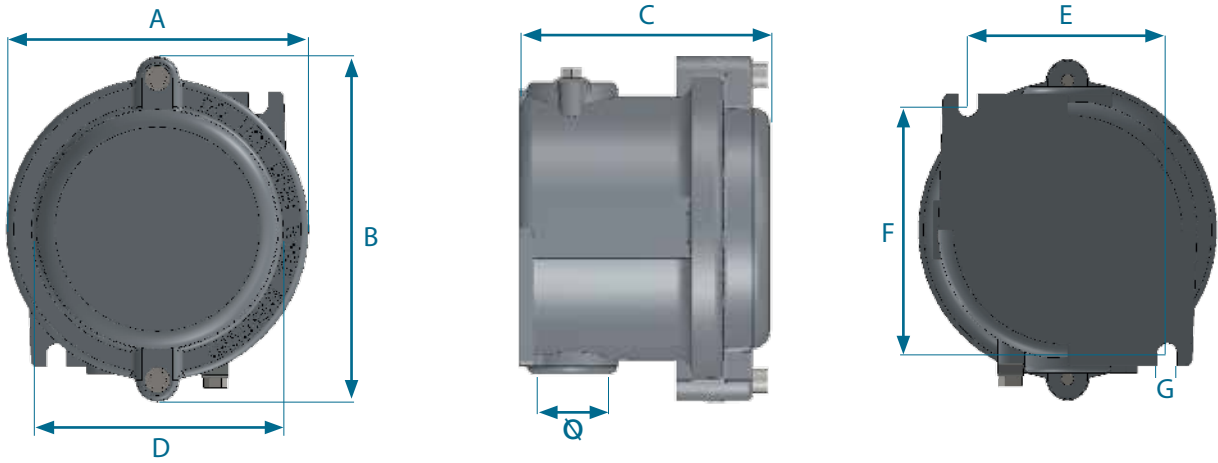
- body and cover die-casted of copper-free (lower 0.1%) aluminium;
- external epoxy powder coating RAL 7001;
- gasket on cover of silicone;
- internal and external earth screws of stainless steel complete with antirotation washers.

The Hub Scheme

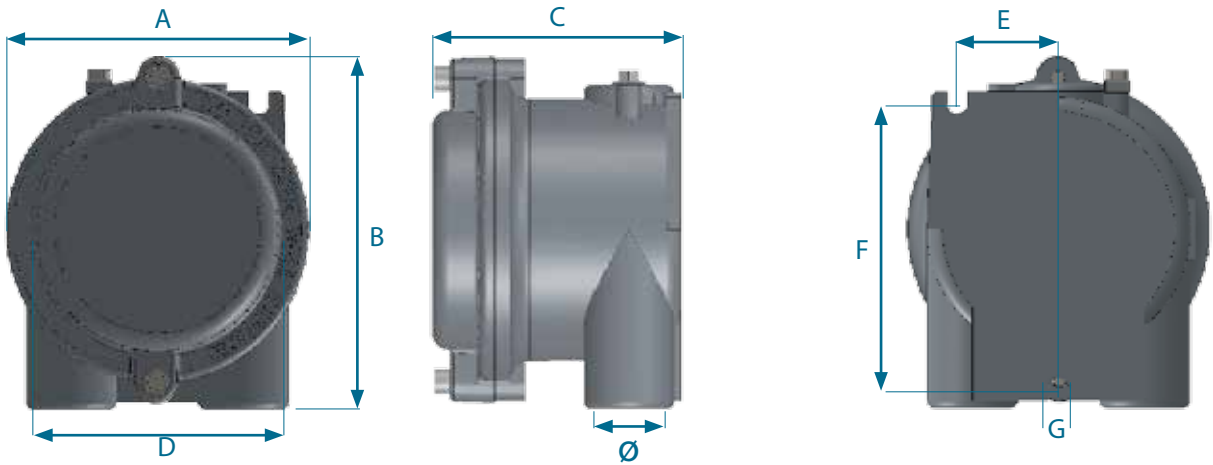


Protection

certificate number:	IECEX IMQ 16.0019X	IMQ 14 ATEX 005 X	TC RU C-IT.AA87.B.00509
marking:	II 2GD Ex db IIC T5/T6 Gb Ex tb IIIC T100/T85°C Db		
ambient temperature:	-40°C +60°C		
degree of protection:	IP66		
conformity:	Directive ATEX 2014/34/EU	TP TC 012/2011	
standards:	IEC-EN60079-0	IEC-EN60079-1	IEC-EN60079-31
	ГОСТ 31610.0	ГОСТ IEC 60079-1	ГОСТ Р МЭК 60079-31
category:	suitable for Zone 1- 2 (gas) and Zone 21 - 22 (dust)		



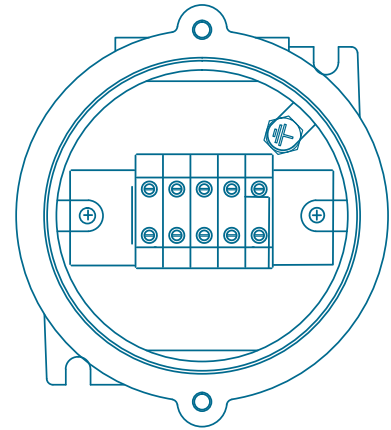
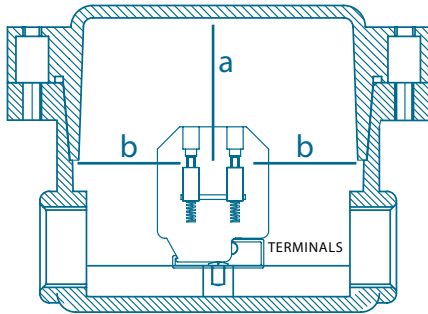
Code	Ø Hub	A	B	C	Ø D	E	F	G	Kg
CSDC 1M	M 20x1.5	120	138	99	92	80	100	8	1.10
CSDC 2M	M 25x1.5	120	138	99	92	80	100	8	1.10
CSDC 1N	1/2" NPT	120	138	99	92	80	100	8	1.10
CSDC 2N	3/4" NPT	120	138	99	92	80	100	8	1.10



Code	Ø Hub	A	B	C	Ø D	E	F	G	Kg
CSDY / U 1M	M 20x1.5	120	138	99	92	40	113	8	1.15
CSDY / U 2M	M 25x1.5	120	138	99	92	40	113	8	1.15
CSDY / U 1N	1/2" NPT	120	138	99	92	40	113	8	1.15
CSDY / U 2N	3/4" NPT	120	138	99	92	40	113	8	1.15



Terminal dispositions



Code	Section and maximum number of terminal			Minimum Clearance Distance		Operating Voltage
	1.5	2.5	4	a	b+b	
CSD (all sizes)	10	10	8	6	20	all
Max. Current (A) at 40°C	10	12.5	20			
Max. Current (A) at 60°C	8	10.5	17			
Max. Voltage (V)	690					

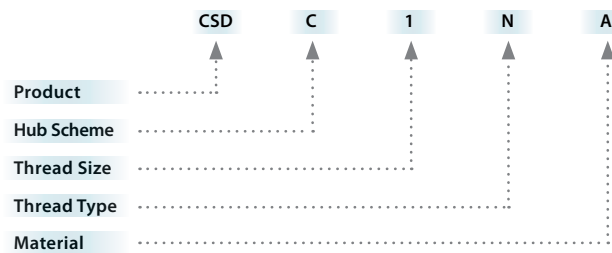
Ordering Table

Thread Type	N	M
1	1/2"	20
2	3/4"	25

Thread Type	Code	Description
N	NPT - ANSI ASME B1.20.1	
M	Metric Pitch 1.5 - ISO 262	

Material	Code	Description
A	Aluminium	
S	Stainless Steel	

Ordering Codes



Example above code:

- Enclosure Version: Terminal box
- Enclosure Thread: 2 x 1/2" NPT Hubs - scheme C
- Material: Aluminium



GUB A

GUB A series enclosures are normally used in the chemical and petrochemical plants, off-shore platforms, refineries and any other industry where hazardous atmospheres (gas and combustible dust) are potentially present. The GUB A range has been designed to meet the main requirements of power distribution, monitoring and signaling, and other electrical functions inside the hazardous area of the plant.



Function

The GUB A series can be used for the following main applications:

- control station and instrument housing;
- motor starter unit ;
- lighting control panel;
- electronic grounding system;
- terminal and bus-bars box;

and fitted with other electrical and/or electronic equipment as per client specifications.

Construction

The materials used to manufacture the GUB A series have been studied to grant the maximum protection against the highly corrosive agents present in these industries:

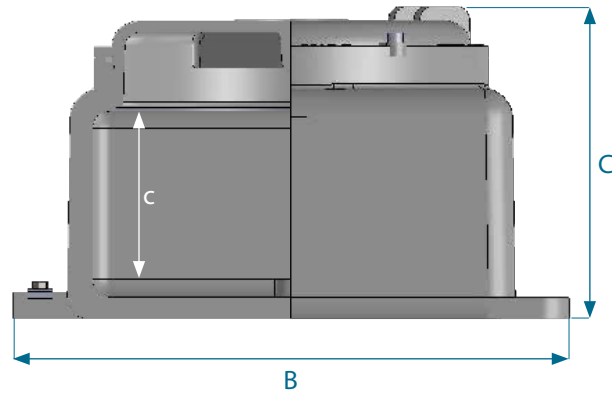
- body and cover casted of copper-free (lower 0.1%) aluminium alloy
- external epoxy powder coating RAL 7001
- internal anticondensation coating and drain and breather valves (upon request)
- anti-loosening bolts (size 1) and earthing screws of stainless steel
- gasket on cover of silicone
- window of thermoresistant glass sealed with auto-leveling silicone.



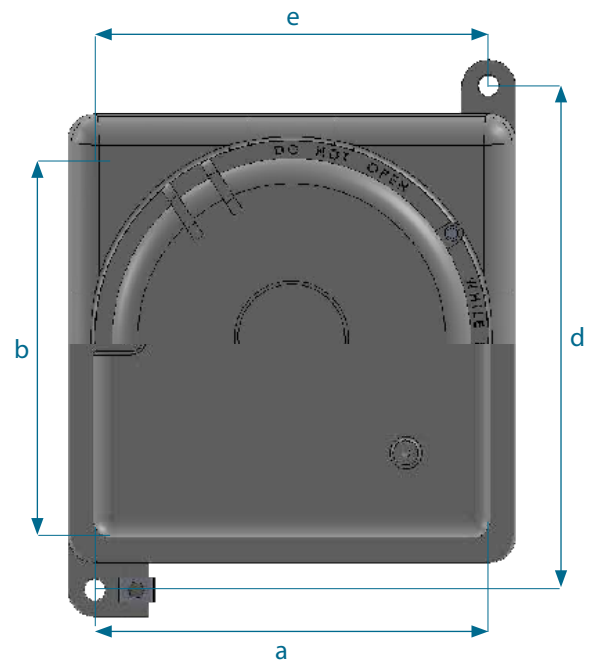
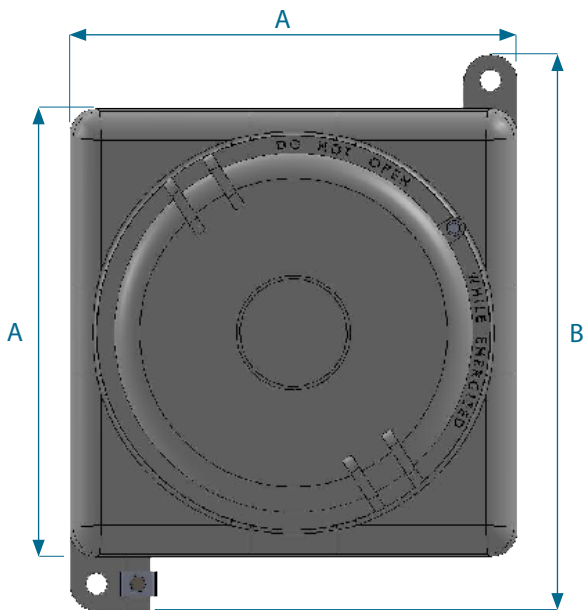
Supremec always pays special attention to on-site installation issues. GUB A series are provided with internal and external anti-rotation washer to facilitate the earth connection without using special eye-bolt lugs, making the job easier to maintenance staff.

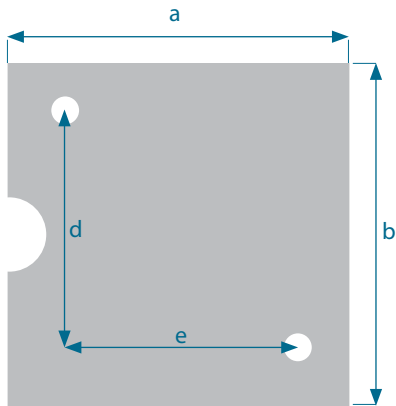
Protection

certificate number:	IECEX IMQ 16.0018X	IMQ 11 ATEX 030 X	TC RU C-IT.AA87.B.00509
marking:	II 2GD Ex db [ja Ga]/[ib Gb] IIC T4/T5/T6 Gb Ex tb IIIC T135/T100/T85°C Db		
ambient temperature:	-60°C +60°C		
degree of protection:	IP66		
conformity:	Directive ATEX 2014/34/EU	TP TC 012/2011	
standards:	IEC-EN60079-0	IEC-EN60079-1	IEC-EN60079-11 IEC-EN60079-31
	ГОСТ 31610.0	ГОСТ IEC 60079-1	ГОСТ 31610.11 ГОСТ Р МЭК 60079-31
category:	suitable for Zone 1- 2 (gas) and Zone 21 - 22 (dust)		



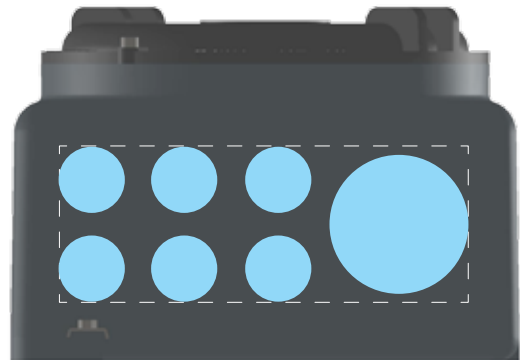
code	overall dimensions			internal dimensions			fixing dimensions			weight
	A	B	C	a	b	c	d	e	screw	
GUB 1 A	129	165	125	103	103	53	147	105	M6	2,4
GUB 2 A	180	229	128	155	155	68	204	152	M8	4,2
GUB 3 A	200	247	148	175	175	88	223	172	M8	5,3
GUB 4 A	250	308	174	222	222	96	279	220	M10	8,4
GUB 5 A	320	382	206	290	290	130	351	286	M10	14,4





code	mounting plate		fixing dimensions			
	a	b	d	e	screw	holes
GUB 1 A	72	72	52	52	M5	2
GUB 2 A	100	100	80	80	M6	2
GUB 3 A	114	114	94	94	M6	2
GUB 4 A	150	150	130	130	M6	2
GUB 5 A	184	184	164	164	M6	4

code	maximum number of hubs on side walls									
	M20	M25	M32	M40	M50	M63	M75	M90		
METRIC										
NPT	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2	3"	4"	
GUB 1 A	2	1	1	1	-	-	-	-	-	
GUB 2 A	4	3	2	2	1	1	-	-	-	
GUB 3 A	6	4	3	2	2	1	1	-	-	
GUB 4 A	8	6	4	3	2	2	1	-	-	
GUB 5 A	15	9	8	6	4	3	2	1	1	



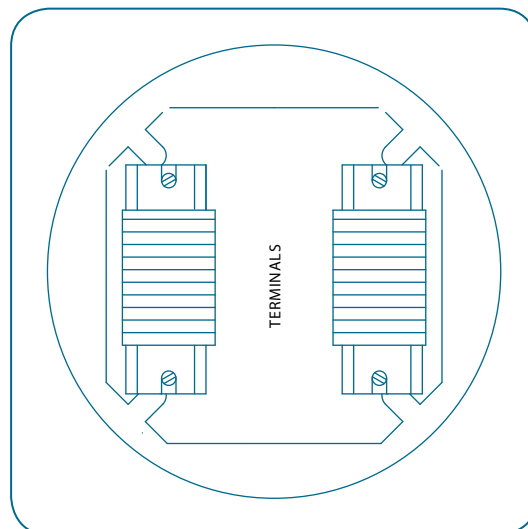
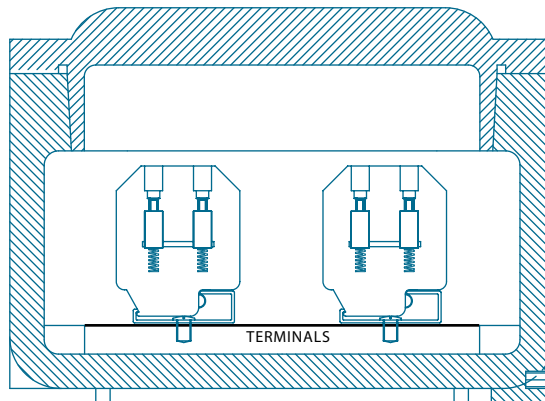
code	maximum size of windows on cover
	diameter
GUBW 1 A	70
GUBW 2 A	90
GUBW 3 A	100
GUBW 4 A	140
GUBW 5 A	180



maximum number of terminals size in mm²

	2.5	4	6	10	16	35	70
GUB 1 A	8	7	5	4	-	-	-
GUB 2 A	18	16	9	7	6	-	-
GUB 3 A	21	15	11	9	7	5	-
GUB 4 A	44	38	30	24	20	6	-
GUB 5 A	56	48	38	30	24	7	-

examples of terminals dispositions





maximum number of operators on single side wall		
code	push button pilot light units	MCB 60 Ah 3P
GUB 1 A	2	1
GUB 2 A	2	1
GUB 3 A	2	2
GUB 4 A	3	2
GUB 5 A	6	2

examples of electrical installations

