

Imen Tajhiz Tabnak Metal Engineering Co.

Ex Products Catalogue

2024

Keep your site safe

1 ESJ Series

Stainless Steel Junction Boxes (Ex e)

3 DAJC Series

Aluminum Junction Boxes (Ex d)

2 EAJ Series

Aluminum Junction Boxes (Ex e)

4 HG Series

Cable Glands & Fittings

ABOUT US

Since 2023 Mittex group has been designing and manufacturing protected electrical equipment intended for installation in areas at risk of explosion and fire. All of our products are designed and manufactured in-house with various protection types such as 'Ex d' explosion proof, 'Ex e' increased Safety, using Aluminum alloy, Stainless steel and Brass. Our production may be summarized as follows:

- Electrical Junction Boxes
- Lighting Fixtures
- Cable Glands and fittings
- Electrical Panels

special designs according to customer's specifications Most of our production is intended for the Oil & Gas sector, both off-shore and on-shore, but also chemical and pharmaceutical industries, as well as all those process areas characterized by the presence of explosive atmospheres such as grain silos, wood mills and paper mills. Every year we invest part of our resources in developing innovative products to address the market's needs. That is why our R&D department devises the best solutions considering regulatory, installation, safety and market price aspects.

Safety, product quality, compliance with standards, technical support and market after-sale support are foundation of our corporate Mission. All our products are certified according to European ATEX standard or international IECEx rules. The production process, entirely managed in-house, is controlled by a Certified Quality System according to the requirements of ISO 9001:2015 Rule, providing Quality Plans expressly set for the design, production, control and service of such equipment, constantly checked by a well defined body.



ESJ Series

Ex eb IIC
Ex tb IIIC

IP 66

25 different sizes

Zone 1 , 2, 21, 22

Earth connection

IK10 mechanical strength

Large opening angle

Enclosure made of stainless steel

Gasket resistant to acids and high temperature

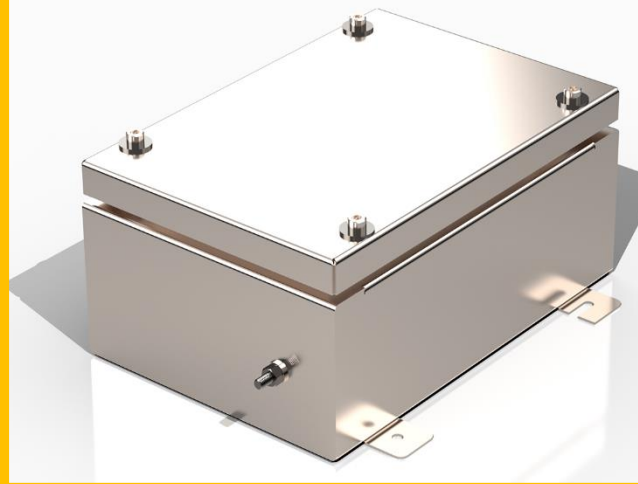
Technical Data

Explosion Protection	
Marking	Ex eb IIC Gb
	Ex tb IIIC Db
ATEX	Under certificate
IECEX	Under certificate (ExTR Free Ref. No.: H1-70195)
Conformity to standards	EN 60079-0, EN 60079-7, EN 60079-31, IEC 60079-0, IEC 60079-7, IEC60079-31
Enclosure material	Stainless steel
Terminal	International brand of explosion proof terminal block
Exposed fastener	Stainless steel
Rated voltage	690 V AC
Rated current	1200 A
Ambient temperature	-30 °C to +65 °C
Internal & external Earthing	M6 /M8/ M10
Ingress protection	65/66
Coating	Electrostatic powder coating

ESJ Series

The ESJ junction box series, crafted from stainless steel sheets, ensures optimal functionality in challenging environments where it is situated. These enclosures uphold superior quality standards, utilizing premium raw materials processed with state-of-the-art technologies. They are designed to withstand various external stressors, including water, dust, impact, vibrations, corrosion, and extreme temperature variations. This durability guarantees an extended period of consistently dependable performance.

ESJ enclosures are engineered primarily for junction box and instrumentation/control installations, employing Ex e and Ex t protection classifications. Typically found in industrial facilities at risk of explosion and fire, these enclosures are utilized as junction boxes or for cable routing to transmit analogue or digital signals. Their key function is to shield internal components from external elements like moisture and dust, necessitating an appropriate IP rating. Ex terminals and bus-bars may be installed in junction boxes.



Type & application

Selecting the right enclosure is a critical stage in project development, requiring a systematic approach to decision-making. It is crucial to methodically evaluate all variables, including the installation location of our equipment, the specific environmental conditions at the site, the necessary level of protection, available space, and the intended setup. By thoroughly analyzing this information, you can identify the product that best aligns with the design requirements under consideration.

Environmental condition

The primary consideration is the environmental conditions in which the equipment will be installed, including whether it will be situated indoors or outdoors, and the specific operational requirements within various industries such as pharmaceutical, chemical, petrochemical, food, shipbuilding, and agricultural sectors.

Design

Considering the technical aspect, it is crucial to emphasize that product design and appearance play a vital role in ensuring the seamless integration of equipment within the enclosure. The Mittex team of experts is available daily to assist with your inquiries and provide optimal solutions.

Mittex enclosures have passed:

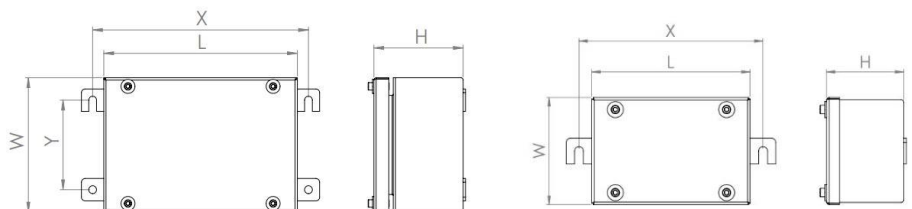
- IP protection testing;
- salt mist testing for corrosion resistance
- low temperature resistance testing
- IK strength testing
- heat resistance testing

Selection Table

Horizontal Mounting

ESJ Series	Outside Dimensions			Horizontal Mounting	
	L(mm)	W(mm)	H(mm)	X(mm)	Y(mm)
ESJ1212A	120	120	80	155	---
ESJ1212B	120	120	100	155	---
ESJ1512A	150	120	90	185	---
ESJ1512B	150	120	120	185	---
ESJ1812A	180	120	90	215	---
ESJ1812B	180	120	120	215	---
ESJ1818A	180	180	120	210	120
ESJ1818B	180	180	150	210	120
ESJ2218A	220	180	120	250	120
ESJ2218B	220	180	150	250	120
ESJ2618A	260	180	120	290	120
ESJ2618B	260	180	150	290	120
ESJ3020A	300	200	120	330	140
ESJ3020B	300	200	150	330	140
ESJ3020C	300	200	200	330	140
ESJ3524A	350	240	150	380	180
ESJ3524B	350	240	200	380	180
ESJ4024A	400	240	150	430	180
ESJ4024B	400	240	200	430	180
ESJ5029A	500	290	150	530	230
ESJ5029B	500	290	200	530	230
ESJ6036A	600	360	150	640	290
ESJ6036B	600	360	200	640	290
ESJ8050A	800	500	200	840	430
ESJ8050B	800	500	250	840	430

Dimensional Drawing



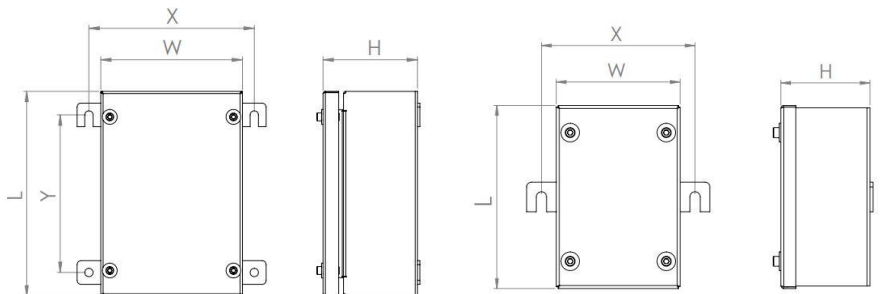
ESJ Series

Selection Table

Vertical Mounting

ESJ Series	Outside Dimensions			Vertical Mounting	
	L(mm)	W(mm)	H(mm)	X(mm)	Y(mm)
ESJ1212A	120	120	80	155	---
ESJ1212B	120	120	100	155	---
ESJ1512A	150	120	90	155	---
ESJ1512B	150	120	120	155	---
ESJ1812A	180	120	90	155	---
ESJ1812B	180	120	120	155	---
ESJ1818A	180	180	120	210	120
ESJ1818B	180	180	150	210	120
ESJ2218A	220	180	120	210	160
ESJ2218B	220	180	150	210	160
ESJ2618A	260	180	120	210	200
ESJ2618B	260	180	150	210	200
ESJ3020A	300	200	120	230	240
ESJ3020B	300	200	150	230	240
ESJ3020C	300	200	200	230	240
ESJ3524A	350	240	150	270	290
ESJ3524B	350	240	200	270	290
ESJ4024A	400	240	150	270	340
ESJ4024B	400	240	200	270	340
ESJ5029A	500	290	150	320	440
ESJ5029B	500	290	200	320	440
ESJ6036A	600	360	150	400	530
ESJ6036B	600	360	200	400	530
ESJ8050A	800	500	200	540	730
ESJ8050B	800	500	250	540	730

Dimensional Drawing



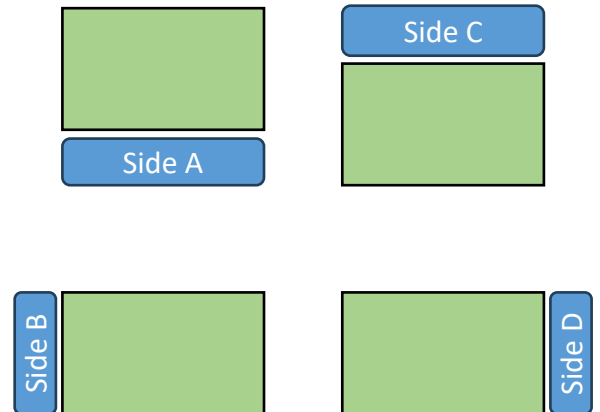


Accessories available on request

- Body and cover thickness of 1.5, 2 or 3 mm
- Possible drilling of the enclosure bottom
- Internal anti-condensation coating
- Breather valve; Drain valve
- Internal mounting plate
- Terminal block mounting rail
- ATEX-Certified or IECEX-Certified terminals : terminals must be chosen from the list of approved manufactures : Phoenix contact, Wago, Weidmuller & Raad
- Removable gland Plate of each side
- Through holes with no threading of each side

Removable gland plate

Model	Removable gland plate Dimensions	
	Side A & C	Side B & D
ESJ2618A	215x78	135x78
ESJ2618B	215x108	135x108
ESJ3020A	255x78	155x78
ESJ3020B	255x108	155x108
ESJ3020C	255x158	155x158
ESJ3524A	305x108	195x108
ESJ3524B	305x158	195x158
ESJ4024A	355x108	195x108
ESJ4024B	355x158	195x158
ESJ5029A	455x108	245x108
ESJ5029B	455x158	245x158
ESJ6036A	555x108	315x108
ESJ6036B	555x158	315x158
ESJ8050A	755x158	455x158
ESJ8050B	755x208	455x208



ESJ Series

Entries

Model	Holes drilling in body								
	Sides	M16	M20	M25	M32	M40	M50	M63	M75
ESJ1212A	Each side	6	4	3	2	-	-	-	-
ESJ1212B	Each side	8	6	4	2	-	-	-	-
ESJ1512A	Greater side	10	7	4	2	-	-	-	-
	Smaller Side	8	5	3	2	-	-	-	-
ESJ1512B	Greater side	15	11	6	3	2	-	-	-
	Smaller Side	12	8	4	2	2	-	-	-
ESJ1812A	Greater side	12	9	4	3	-	-	-	-
	Smaller Side	8	5	3	2	-	-	-	-
ESJ1812B	Greater side	18	14	8	4	3	-	-	-
	Smaller Side	12	8	4	2	2	-	-	-
ESJ1818A	Each side	17	11	8	4	3	2	-	-
ESJ1818B	Each side	15	15	11	6	4	2	-	-
ESJ2218A	Greater side	20	14	10	5	3	3	-	-
	Smaller Side	15	11	8	4	3	2	-	-
ESJ2218B	Greater side	21	18	14	8	5	3	-	-
	Smaller Side	15	15	11	6	4	2	-	-
ESJ2618A	Greater side	23	17	12	5	4	3	2	-
	Smaller Side	15	11	8	3	3	2	1	-
ESJ2618B	Greater side	24	21	14	8	7	3	3	-
	Smaller Side	15	15	9	6	4	2	2	-
ESJ3020A	Greater side	26	20	14	6	4	3	3	-
	Smaller Side	17	12	8	4	3	2	2	-
ESJ3020B	Greater side	27	24	17	10	8	4	3	-
	Smaller Side	18	15	11	6	5	3	2	-
ESJ3020C	Greater side	45	38	28	15	11	8	5	-
	Smaller Side	30	25	16	9	6	5	3	-
ESJ3524A	Greater side	33	30	20	12	11	5	3	-
	Smaller Side	21	18	14	8	5	3	2	-
ESJ3524B	Greater side	55	43	32	18	14	8	5	-
	Smaller Side	35	30	20	12	9	6	3	-
ESJ4024A	Greater side	39	33	26	14	11	6	4	-
	Smaller Side	21	18	14	8	7	3	2	-
ESJ4024B	Greater side	60	53	36	21	14	10	5	-
	Smaller Side	35	28	20	12	9	6	3	-
ESJ5029A	Greater side	48	42	32	18	15	7	5	-
	Smaller Side	27	24	17	10	7	4	3	-
ESJ5029B	Greater side	80	63	44	27	20	12	7	-
	Smaller Side	45	38	24	15	11	6	4	-
ESJ6036A	Greater side	57	51	41	20	17	9	6	5
	Smaller Side	33	30	23	12	9	5	3	3
ESJ6036B	Greater side	95	83	56	33	24	14	9	5
	Smaller Side	55	48	32	18	14	8	5	3
ESJ8050A	Greater side	125	110	76	42	32	20	13	7
	Smaller Side	80	68	44	27	20	12	9	4
ESJ8050B	Greater side	175	132	95	56	40	29	16	14
	Smaller Side	105	84	55	36	24	17	10	8

Terminal Blocks

Model	Maximum number of terminals housed											
	Rail	2.5	2.5H	RTP 4	RTP 6	RTP 10	RTP 16	RTP 25	RTP 35	RTP 50	RTP 70	RTP 95
ESJ1212A	H	9	9	8	6	5	4	4	3	0	0	0
	V	9	9	8	6	5	4	4	3	0	0	0
ESJ1212B	H	9	9	8	6	5	4	4	3	0	0	0
	V	9	9	8	6	5	4	4	3	0	0	0
ESJ1512A	H	14	14	13	10	8	6	6	5	0	0	0
	V	9	9	8	6	5	4	4	3	0	0	0
ESJ1512B	H	14	14	13	10	8	6	6	5	0	0	0
	V	9	9	8	6	5	4	4	3	0	0	0
ESJ1812A	H	19	19	17	14	11	9	8	6	0	0	0
	V	18	18	17	13	11	8	8	3	0	0	0
ESJ1812B	H	19	19	17	14	11	9	8	6	0	0	0
	V	18	18	17	13	11	8	8	3	0	0	0
ESJ1818A	H	38	38	35	28	23	9	8	6	5	5	4
	V	38	38	35	28	23	18	16	6	5	5	4
ESJ1818B	H	38	38	35	28	23	9	8	6	5	5	4
	V	38	38	35	28	23	18	16	6	5	5	4
ESJ2218A	H	51	51	48	38	31	12	11	9	7	7	6
	V	38	38	35	28	23	18	16	13	5	5	4
ESJ2218B	H	51	51	48	38	31	12	11	9	7	7	6
	V	38	38	35	28	23	18	16	13	5	5	4
ESJ2618A	H	65	65	60	48	39	15	14	11	9	8	7
	V	57	57	53	43	34	27	25	13	11	10	4
ESJ2618B	H	65	65	60	48	39	15	14	11	9	8	7
	V	57	57	53	43	34	27	25	13	11	10	4
ESJ3020A	H	78	78	73	58	47	37	34	28	11	10	9
	V	67	67	63	50	40	32	29	24	13	12	10
ESJ3020B	H	78	78	73	58	47	37	34	28	11	10	9
	V	67	67	63	50	40	32	29	24	13	12	10
ESJ3020C	H	78	78	73	58	47	37	34	28	11	10	9
	V	67	67	63	50	40	32	29	24	13	12	10
ESJ3524A	H	95	95	89	71	57	45	41	34	28	25	11
	V	116	116	109	87	70	56	51	31	26	23	13
ESJ3524B	H	95	95	89	71	57	45	41	34	28	25	11
	V	116	116	109	87	70	56	51	31	26	23	13
ESJ4024A	H	111	111	104	83	67	53	49	40	33	30	13
	V	116	116	109	87	70	56	51	42	26	23	20
ESJ4024B	H	111	111	104	83	67	53	49	40	33	30	13
	V	116	116	109	87	70	56	51	42	26	23	20
ESJ5029A	H	217	217	203	163	130	104	95	79	43	39	34
	V	225	225	210	168	135	108	99	68	45	40	35
ESJ5029B	H	217	217	203	163	130	104	95	79	43	39	34
	V	225	225	210	168	135	108	99	68	45	40	35
ESJ6036A	H	356	356	334	267	214	128	118	97	80	72	41
	V	344	344	322	258	206	165	151	107	73	67	46
ESJ6036B	H	356	356	334	267	214	128	118	97	80	72	41
	V	344	344	322	258	206	165	151	107	73	67	46
ESJ8050A	H	735	735	689	551	441	294	270	222	147	133	115
	V	725	725	679	543	435	348	319	237	152	138	102
ESJ8050B	H	735	735	689	551	441	294	270	222	147	133	115
	V	725	725	679	543	435	348	319	237	152	138	102



EAT Series

Ex eb IIC
Ex tb IIIC

IP 66

6 different sizes

Zone 1 , 2, 21, 22

IK10 mechanical strength

Earth connection

Enclosure made of Copper-free Aluminum Alloy

Gasket resistant to acids and high temperature

Technical Data

Explosion Protection	
Marking	Ex eb IIC Gb
	Ex tb IIIC Db
ATEX	Under certificate
IECEX	Under certificate (ExTR Free Ref. No.: H1-70195)
Conformity to standards	EN 60079-0, EN 60079-7, EN 60079-31, IEC 60079-0, IEC 60079-7, IEC60079-31
Enclosure material	Copper-free Aluminum Alloy
Terminal	International brand of explosion proof terminal block
Exposed fastener	Stainless steel
Rated voltage	690 V AC
Rated current	1200 A
Ambient temperature	-30 °C to +65 °C
Internal & external Earthing	M5/M6
Ingress protection	65/66
Coating	Electrostatic powder coating

EAJ Series

The EAJ junction box series, crafted from stainless steel sheets, ensures optimal functionality in challenging environments where it is situated. These enclosures uphold superior quality standards, utilizing premium raw materials processed with state-of-the-art technologies. They are designed to withstand various external stressors, including water, dust, impact, vibrations, corrosion, and extreme temperature variations. This durability guarantees an extended period of consistently dependable performance.

EAJ enclosures are engineered primarily for junction box and instrumentation/control installations, employing Ex e and Ex t protection classifications. Typically found in industrial facilities at risk of explosion and fire, these enclosures are utilized as junction boxes or for cable routing to transmit analogue or digital signals. Their key function is to shield internal components from external elements like moisture and dust, necessitating an appropriate IP rating. Ex terminals and bus-bars may be installed in junction boxes.



Type & application

Selecting the right enclosure is a critical stage in project development, requiring a systematic approach to decision-making. It is crucial to methodically evaluate all variables, including the installation location of our equipment, the specific environmental conditions at the site, the necessary level of protection, available space, and the intended setup. By thoroughly analyzing this information, you can identify the product that best aligns with the design requirements under consideration.

Environmental condition

The primary consideration is the environmental conditions in which the equipment will be installed, including whether it will be situated indoors or outdoors, and the specific operational requirements within various industries such as pharmaceutical, chemical, petrochemical, food, shipbuilding, and agricultural sectors.

Design

Considering the technical aspect, it is crucial to emphasize that product design and appearance play a vital role in ensuring the seamless integration of equipment within the enclosure. The Mittex team of experts is available daily to assist with your inquiries and provide optimal solutions.

Mittex enclosures have passed:

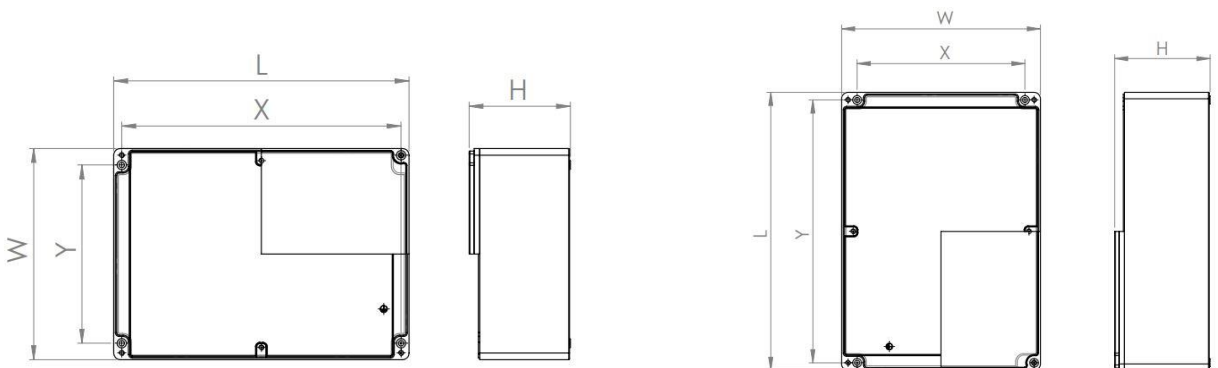
- IP protection testing;
- salt mist testing for corrosion resistance
- low temperature resistance testing
- IK strength testing
- heat resistance testing

Selection Table

Horizontal/Vertical Mounting

Model	Outside Dimensions			Mounting		
	L(mm)	W(mm)	H(mm)	Vertical/Horizontal	X(mm)	Y(mm)
EAJ1313	132	132	90	Horizontal	114	94
				Vertical	94	114
EAJ1616	162	162	90	Horizontal	144	124
				Vertical	124	144
EAJ1917	194	174	90	Horizontal	174	134
				Vertical	134	174
EAJ2519	254	194	90	Horizontal	234	154
				Vertical	154	234
EAJ3525	354	254	120	Horizontal	331	211
				Vertical	211	331
EAJ4031	404	314	160	Horizontal	381	271
				Vertical	271	381

Dimensional Drawing



EAJ Series

Accessories available on request

Possible drilling of the enclosure bottom
 Internal anti-condensation coating
 Breather valve; Drain valve
 Internal mounting plate
 Earth screws in stainless steel
 Terminal block mounting rail
 ATEX-Certified or IECEX-Certified terminals :
 terminals must be chosen from the list of
 approved manufactures : Phoenix contact, Wago, Weidmuller & Raad
 Through holes with no threading of each side

Entries

Model	Holes drilling in body								
	Sides	M16	M20	M25	M32	M40	M50	M63	M75
EAJ1313	Greater side	5	3	1	1	-	-	-	-
	Smaller Side	3	2	1	1				
EAJ1616	Greater side	6	4	2	2	-	-	-	-
	Smaller Side	5	3	2	1	-	-	-	-
EAJ1917	Greater side	8	5	3	2	-	-	-	-
	Smaller Side	5	3	2	2	-	-	-	-
EAJ2519	Greater side	11	7	4	3	2	-	-	-
	Smaller Side	7	4	3	2	1	-	-	-
EAJ3525	Greater side	27	16	13	5	4	3	-	-
	Smaller Side	17	10	7	3	3	2	-	-
EAJ4031	Greater side	40	26	18	10	8	4	2	2
	Smaller Side	28	22	11	8	6	3	2	2

Terminal Blocks

Model	Maximum number of terminals housed										
	2.5	2.5H	4	6	10	16	25	35	50	70	95
EAJ1313	10	10	10	8	6	5	4	3	3	2	0
EAJ1616	15	15	14	11	9	7	6	5	4	4	0
EAJ1917	20	20	19	15	12	10	9	7	6	5	0
EAJ2519	61	61	57	46	37	14	13	11	9	8	0
EAJ3525	95	95	89	71	57	45	41	34	28	25	11
EAJ4031	167	167	157	125	100	80	73	60	33	30	26

DAJC Series

Ex db IIC
Ex tb IIIC

IP 66

5 different sizes

Zone 1 , 2, 21, 22

IK10 mechanical strength

Earth connection

Enclosure made of Copper-free Aluminum Alloy

O-ring resistant to acids and high temperature

Technical Data

Explosion Protection	
Marking	Ex db IIC Gb
	Ex tb IIIC Db
ATEX	Under certificate
IECEx	Under certificate
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC60079-31
Enclosure material	Copper-free Aluminum Alloy
Certification lable	stainless steel label is riveted onto the cover
Lock screw	Stainless steel
Rated voltage	690 V AC
Rated current	1200 A
Ambient temperature	-30 °C to +55 °C
Internal & external Earthing	M5/M6
Ingress protection	65/66
Coating	Electrostatic powder coating

ED.2024/0

DAJC Series

The DAJC series junction boxes are highly recommended for installing terminals due to their spacious design, facilitating easy access for operators. However, the compact wall area may limit drilling options. These junction boxes are ideal for use in plants where there is a potential risk of explosion and/or fire, or in areas with combustible dust, classified as Zone 1, 2, 21, 22. This product is esteemed globally for its specific aluminum alloy construction and excellent mechanical properties of its finishes.

The DAJC series is utilized in environments with group IIC gases and serves as a versatile enclosure for terminals, fuse carriers, transformers, reactors, and barriers. Additionally, it is employed in the fabrication of control and signaling boards, light and power boards, and motor starter boxes, all tailored to meet the diverse needs of our global clientele. The DAJC series is equipped with a threaded lid and a tempered glass viewing window.



Type & application

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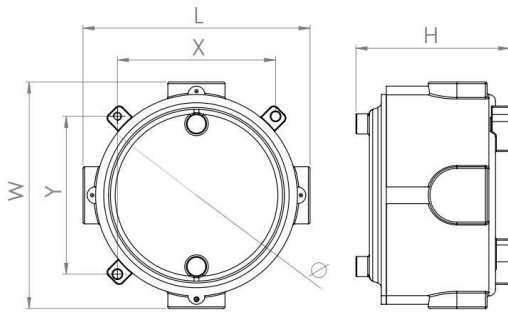
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- low temperature resistance testing
- IK strength testing
- heat resistance testing

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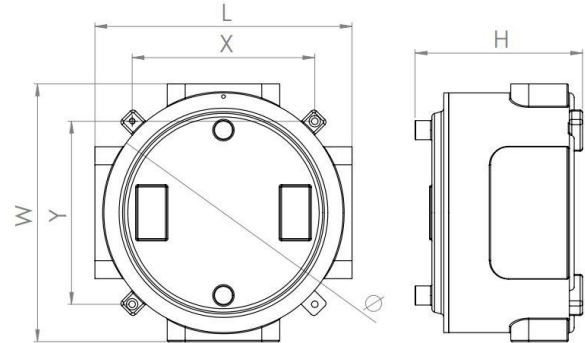
Mounting

Model	Outside Dimensions				Mounting	
	L(mm)	W(mm)	H(mm)	Φ (mm)	X(mm)	Y(mm)
DAJC 0909	102	102	95	90	74	74
DAJC 1209	132	132	95	120	95	95
DAJC 1510	162	162	105	150	119	119
DAJC 2014	212	212	142	200	155	155
DAJC 3623	300	300	230	360	278	278

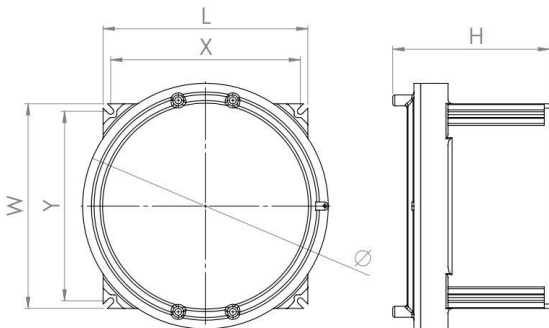
Dimensional Drawing



DAJC0909/DAJC1209



DAJC1510/DAJC2014



DAJC3623

DAJC Series

Accessories available on request

- Internal anti-condensation coating
- Breather valve; Drain valve
- Internal mounting plate
- Earth screws in stainless steel
- Threaded holes according to entries table
- Thread Options:
 - NPT thread ANSI B1.20.1
 - Metric threads ISO 261/965

Entries

Model	Metric	M16	M20	M25	M32	M40	M50	M63
	NPT	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	2"
DAJC0909	Each side	1	1	1	-	-	-	-
DAJC1209	Each side	1	1	1	-	-	-	-
DAJC1510	Greater side	3	3	2	2	-	-	-
	Smaller Side	2	2	1	1	-	-	-
DAJC2014	Greater side	6	3	3	2	1	-	-
	Smaller Side	3	2	2	2	-	-	-
DAJC3624	Each side	24	18	15	8	5	3	2

monitoring and signaling units

Control, monitoring, and signaling units are crucial for creating control boards that ensure the safe operation of the electrical system and the well-being of personnel during maintenance activities. Equipped with a Manual/Automatic selector, these units enable operators to select the necessary settings for safe and efficient work. They play a significant role in safeguarding electrical equipment and control circuits in hazardous and challenging environments. These units house a variety of components such as switches, indicators, contactors, transformers, analog and digital devices, etc. Additionally, they can be externally controlled with body-mounted Mittex signaling devices like control levers, pushbuttons, and indicator lights. Mittex specializes in designing, developing, and supplying customized cabling solutions for one or more enclosures, including complex panel boards, and offers comprehensive inspection and testing services upon request.

Features of equipment that can be installed inside enclosures to produce control and monitoring units

List of standard electrical specifications for components suitable for installation in enclosures to create control, monitoring, and signaling units.

(The figures are sourced from the catalogs of reputable manufacturers of electrical and electronic components in the market)

Component type	Max. Voltage(V)	Max. Current(A)	Max. power(W)
Analogue and digital instruments	660	5	10
Circuit breakers	660	650	-
Fuses	660	400	-
Relays	500	10	12
Contactors	660	650	30
Timers	240	10	5
Reactors	250	7	40
Electronic inverters/reactors	400	-	10
PLCs Multiplexers and amplifiers	240	-	80
Testing and measuring devices	240	-	100
Electronic control devices	660	-	100
Twilight relays	240	-	2
Resistors	240	-	300
Transformers	660	-	200
Capacitors	660	-	-
Terminals	660	-	-



HG Series

Ex eb IIC
Ex db IIC
Ex tb IIIC

IP 66

3 different types

Zone 1 , 2, 21, 22

IK10 mechanical strength

Earth Lug

Gland & fittings made of brass or stainless steel

Elastomeric seal on cable sheaths

Technical Data

Explosion Protection	
Marking	Ex db IIC Gb, Ex eb IIC Gb
	Ex tb IIIC Db
ATEX	Under certificate
IECEX	Under certificate
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC60079-31
Enclosure material	Brass, Nickle plated brass, Stainless steel
Ambient temperature	-30 °C to +65 °C
Ingress protection	65/66

HG Series

HG 41

for non-armoured cables

The HG41 dual certified Ex e / Ex d cable gland is designed for non-armoured elastomer and plastic insulated cables. It is suitable for use with braided cables where the braid and outer sheath enter the enclosure. The braid should be properly terminated inside the enclosure when used. For Ex d applications, ensure that the cable complies with IEC/EN 60079-14.

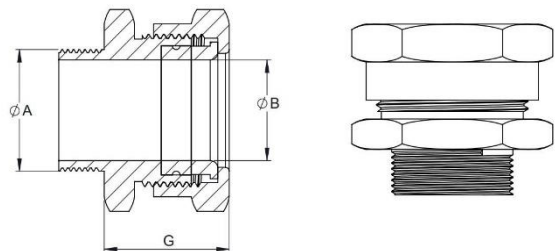
Selection Table

HG-41 Series										
Size Ref	Entry Thread Size (A)		Cable Acceptance Details				G*	Hexagon Dimensions		Material
	Metric	NPT	Outer Sheath (B)					Across Flat	Across Corners	
			Standard Seal		Alternative Seal					
			Min	Max	Min	Max				
Os*	M20	½"	3.0	7.7	-	-	25.0	25.0	27.5	Brass/Stainless Steel
O*	M20	½"	7.5	11.5	-	-	25.0	25.0	27.5	Brass/Stainless Steel
A	M20	¾" or ½"	11.2	14.0	9.0	13.4	25.0	30.0	32.5	Brass/Stainless Steel
B	M25	1" or ¾"	13.5	19.5	9.5	15.4	25.0	36.0	39.5	Brass/Stainless Steel
C	M32	1 ¼" or 1"	19.0	26.0	15.5	21.2	30.0	46.0	50.5	Brass/Stainless Steel
C2	M40	1 ½" or 1 ¼"	25.0	31.5	22.0	28.0	30.0	55.0	60.6	Brass/Stainless Steel
D	M50	2" or 1 ½"	31	44.5	27.5	35.0	40.0	65.0	70.8	Brass/Stainless Steel
D2	M63	2 ½" or 2"	43	54.5	39.0	46.5	40.0	80.0	88.0	Brass/Stainless Steel
E	M75	3" or 2 ½"	54.4	68.0	49.5	58.3	40.0	95.0	104.0	Brass/Stainless Steel

* Sizes Os and O are available with an M16 thread size. For o size with M16 thread, the maximum cable inner sheath diameter is 10.5 mm.

* Minimum entry thread length is 15mm.

Dimensional Drawing



HG 52

for armoured/braided cables

The HG52 Cable Gland is dual certified for Ex e / Ex d applications, offering robustness for use with single wire armour, wire braid, steel tape armour, as well as elastomer and plastic insulated cables. This gland ensures an elastomeric seal on the cable inner sheath, along with a low smoke, zero halogen IP and retention seal on the cable outer sheath. For detailed installation guidelines and regulations, please refer to the instruction.

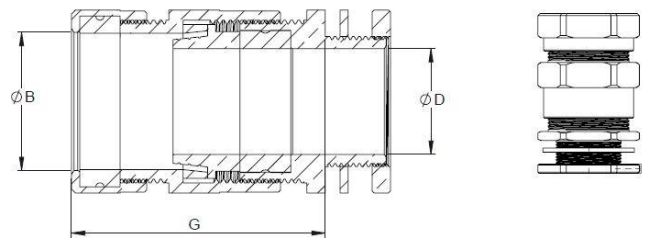
Selection Table

HG-52 Series														
Size Ref	Entry Thread Size		Cable Acceptance Details							G*	Hexagon Dimensions		Material	
	Metric	NPT	Inner Sheath (D)				Outer Sheath (B)		Armour or Braid		Across Flat	Across Corners		
			Standard Seal		Alternative Seal				Orientation 1					Orientation 2
			Min	Max	Min	Max	Min	Max						
Os*	M20	½"	3.0	8.0	-	-	10.5	16	0.8/1.25	0.0/0.8	55.0	25.0	27.5	Brass/ Stainless Steel
O*	M20	½"	7.0	11.5	-	-	10.5	16	0.8/1.25	0.0/0.8	55.0	25.0	27.5	Brass/ Stainless Steel
A	M20	¾" or ½"	11.5	14	9.0	13.4	14.5	20.5	0.8/1.25	0.0/0.8	55.0	30.0	32.5	Brass/ Stainless Steel
B	M25	1" or ¾"	13.5	19.5	9.5	15.4	20	26.5	1.25/1.6	0.0/0.7	60.0	36.0	39.5	Brass/ Stainless Steel
C	M32	1 ¼" or 1"	19.5	26.5	15.5	21.2	26.0	33.0	1.6/2.0	0.0/0.7	65.0	46.0	50.5	Brass/ Stainless Steel
C2	M40	1 ½" or 1 ¼"	25.5	31.0	22.0	28.0	33.0	42.0	1.6/2.0	0.0/0.7	70.0	55.0	60.6	Brass/ Stainless Steel
D	M50	2" or 1 ½"	32.0	43.5	27.5	35.0	41.0	52.3	1.8/2..5	0.0/1.0	80.0	65.0	70.8	Brass/ Stainless Steel
D2	M63	2 ½" or 2"	43.0	54.4	39.0	46.5	52.0	65.0	1.8/2..5	0.0/1.0	80.0	80.0	88.0	Brass/ Stainless Steel
E	M75	3" or 2 ½"	58.0	68.0	49.5	58.3	65.0	78.0	1.8/2..5	0.0/1.0	85.0	95.0	104.0	Brass/ Stainless Steel

* Sizes Os and O are available with an M16 thread size. For o size with M16 thread, the maximum cable inner sheath diameter is 10.5 mm.

* Minimum entry thread length is 15mm.

Dimensional Drawing



HG Series

HG 52L

for armoured lead sheathed cables

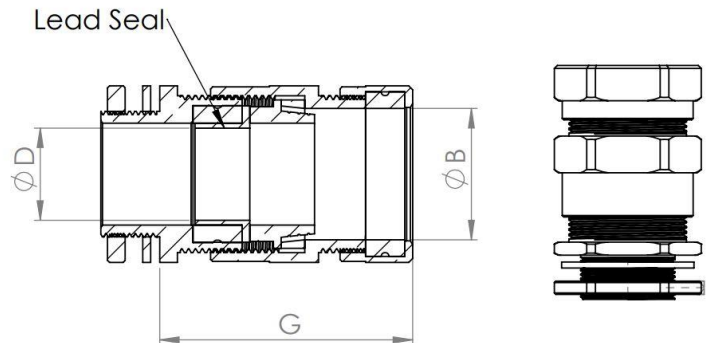
The HG52L Cable Gland is dual certified for Ex e / Ex d applications, offering robustness for use with single wire armour, wire braid, steel tape armour, as well as elastomer and plastic insulated cables. This gland ensures an elastomeric seal on the cable inner sheath, along with a low smoke, zero halogen IP and retention seal on the cable outer sheath. For detailed installation guidelines and regulations, please refer to the instruction.

Selection Table

HG-52L Series														
Size Ref	Entry Thread Size		Cable Acceptance Details								G*	Hexagon Dimensions		Material
	Metric	NPT	Inner Sheath (D)				Outer Sheath (B)		Armour or Braid			Across Flat	Across Corners	
			Standard Seal		Alternative Seal				Orientation 1	Orientation 2				
			Min	Max	Min	Max	Min	Max						
O*	M20	½"	7.4	9	-	-	10.5	16	0.8/1.25	0.0/0.8	55.0	25.0	27.5	Brass/ Stainless Steel
A	M20	¾" or ½"	8.5	11.5	-	-	14.5	20.5	0.8/1.25	0.0/0.8	55.0	30.0	32.5	Brass/ Stainless Steel
B	M25	1" or ¾"	11.5	16.6	9.5	15.4	20	26.5	1.25/1.6	0.0/0.7	60.0	36.0	39.5	Brass/ Stainless Steel
C	M32	1 ¼" or 1"	19.5	23.0	15.0	18.5	26.0	33.0	1.6/2.0	0.0/0.7	65.0	46.0	50.5	Brass/ Stainless Steel
C2	M40	1 ½" or 1 ¼"	25.0	29.0	20.0	25.0	33.0	42.0	1.6/2.0	0.0/0.7	70.0	55.0	60.6	Brass/ Stainless Steel
D	M50	2" or 1 ½"	34.0	40.0	32.0	34.5	41.0	52.3	1.8/2.5	0.0/1.0	80.0	65.0	70.8	Brass/ Stainless Steel
D2	M63	2 ½" or 2"	46.0	52.0	42.0	47.0	52.0	65.0	1.8/2.5	0.0/1.0	80.0	80.0	88.0	Brass/ Stainless Steel
E	M75	3" or 2 ½"	58.0	64.0	51.0	58.0	65.0	78.0	1.8/2.5	0.0/1.0	85.0	95.0	104.0	Brass/ Stainless Steel

* Minimum entry thread length is 15mm.

Dimensional Drawing



HGBE

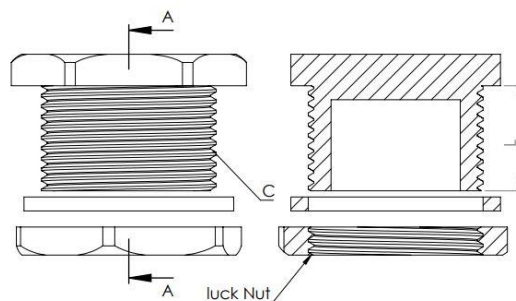
Stopper Plug

Our HGBE Series stopping plugs are expertly crafted to provide robust protection against explosive gases and vapors. With Ex e and Ex d certifications, they ensure high-level safety in Zone 0, Zone 1, and Zone 2 hazardous areas. Count on the HGBE Series to effectively minimize the risk of electrical sparks triggering dangerous explosions.

HGBE Series (Stopper plug)				
Model	C	Across flat(mm)	Across corners(mm)	Min. L(mm)
	Metric			
HGBE 16	M16x1.5	20	22.5	15
HGBE 20	M20x1.5	25	27.5	15
HGBE 25	M25x1.5	30	32.5	15
HGBE 32	M32x1.5	36	39.5	15
HGBE 40	M40x1.5	46	50.5	15
HGBE 50	M50x1.5	55	60.6	15
HGBE 63	M63x1.5	70	75.8	15
HGBE 75	M75x1.5	80	88	15

HGBE Series (Stopper plug)			
Model	C	Across flat(mm)	Across corners(mm)
	NPT		
HGBE ½"	½"	25	27.5
HGBE ¾"	¾"	30	32.5
HGBE 1"	1"	36	39.5
HGBE 1¼"	1¼"	46	50.5
HGBE 1½"	1½"	55	60.6
HGBE 2"	2"	70	75.8
HGBE 2½"	2½"	80	88
HGBE 3"	3"	100	110

Dimensional Drawing



HG Series

HGRC

Reducer

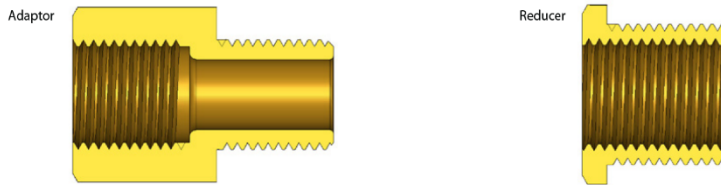
Experience the reliability of our HGRC Series reducers, specifically designed to meet the stringent requirements of hazardous environments. These reducers offer secure connections and seamless integration, safeguarding against potential risks associated with explosive atmospheres. Trust the HGRC Series for superior performance and peace of mind in hazardous locations.

HGAD

Adaptor

Our HGAD Series adaptors are the perfect solution for enhancing the versatility of electrical installations in hazardous areas. With durable construction and Ex e and Ex d certifications, these adaptors ensure safe and efficient operations in Zone 1, Zone 2, Zone 21, and Zone 22 environments. Enhance your adaptability and safety with the HGAD Series.

Selection Table



ADAPTOR AND REDUCERS SELECTION TABLE

- Adaptor
- Reducer

Male Thread

Metric

NPT*

		Metric							NPT*									
		M16	M20	M25	M32	M40	M50	M63	M75	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	
Female Thread	Metric	M16																
		M20																
		M25																
		M32																
		M40																
		M50																
		M63																
		M75																
NPT*	1/2"																	
	3/4"																	
	1"																	
	1 1/4"																	
	1 1/2"																	
	2"																	
	2 1/2"																	
	3"																	

All dimensions in millimetres (except * where dimensions are in inches). All metric threads are 1.5mm pitch as standard.