

## E-Xtreme® series

## TECHNICAL FEATURES

The protection is granted also in case of impact with stones and sand. The materials are able to withstand UV radiations, a wide temperature range and harsh chemicals.

The E-Xtreme® series is available in the **full range** of ILME aluminum hoods and housings versions.

## Applicable test standards

EN 61984:2009-06	Connectors - Safety requirements and tests
EN 60529: 1991 + A1: 2000 + A2: 2013	Degrees of protection provided by enclosures (IP code)
EN ISO 9227: 2012	Corrosion tests in artificial atmospheres - Salt spray tests
ASTM B117-16	Standard practice for operating salt spray (fog) apparatus
EN 60512 (series)	Connectors for electronic equipment - Tests and measurement
EN 60068-2-68: 1996	Environmental testing - Part 2-68: Tests - Test L: Dust and sand
EN ISO 20567-1: 2005	Paints and varnishes -- Determination of stone-chip resistance of coatings -- Part 1: Multi-impact testing

## General specifications

Material	Aluminum die-cast
Painting	Epoxy powder coating
Colour	RAL 7016 (dark grey)
Locking lever, springs and pegs	Stainless steel
Lever handle	C-TYPE lever: Polyamide V-TYPE lever: Stainless steel
Gasket	FKM
Silicone-based compounds	Free (except version for -60 °C... +180 °C)
EN ISO 9227: 2012	3.000 hours (V-TYPE lever and hood with moulded pegs) 2.000 hours (C-TYPE lever and hood with riveted stainless steel bolts)
Temperature limits	-40 °C... +180 °C (-60 °C... +180 °C with silicone gasket) (V-TYPE lever) -40 °C... +125 °C (Class lever and sizes "21.21", "49.16", "66.16" and IP68)
Degree of protection according to IEC/EN 60529 (in mated and locked condition)	IP44, <b>IP65</b> /IP69, <b>IP66</b> /IP69, IP66/ <b>IP67</b> /IP69, IP66/ <b>IP68</b> /IP69
Stone chipping test	ISO 20567-1
Dust and sand blasting test	EN 60068-2-68
Vibration test	EN 61373 cat. 1B, 3 axis EN 60068-2-6 10+500 Hz 0,35mm/5g break point 60, 1 Hz 3 axis
Shock test	EN 61373 cat. 1B, 3 axis
UV resistance	EN ISO 4892-2, EN 50467 on locked housings
Ozone resistance	EN 50467 on locked housings
Chemical resistance	Cleaning fluids, anti-freezing fluids, mineral and synthetic oils, cooling fluids, diesel fuel

## E-Xtreme® series

### ADVANTAGES

Metal hoods and housings intended for **extremely demanding environments**, with special protective treatment under painting.

Their **special patented protective coating** assures a high level of protection against the corrosion even in case of long term exposure to salt mist.

- 3.000 hours in salt spray tests



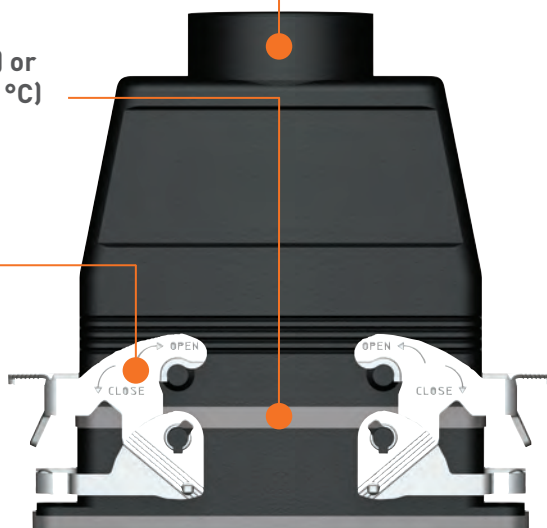
- IP66, IP67, IP69 degree of protection (EN 60529)

- corrosion-proof aluminium with a special coating under the powder painting colour RAL 7016 dark grey

- FKM gasket (-40 °C...+180 °C) or silicone gasket (-60 °C...+180 °C)

- V-TYPE lever or C-TYPE lever, hoods with moulded pegs or riveted stainless steel bolts

- durable protection against damage caused by stone chip, icing, salt mist, UV radiations and harsh gases



icing



very low temperatures



salt mist



impact resistant



UV radiations



chemical resistant



Watch our  
E-Xtreme® enclosure  
series video

inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CT, CTSE (16A) *)	10 poles + ⊕	161
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

\*) can be used only in bulkhead mounting housings

### bulkhead mounting housings with single lever in stainless steel



**3.000 HOURS**

### surface mounting housings with single lever in stainless steel

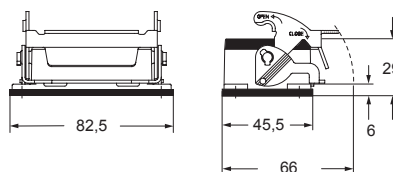


**2.000 HOURS**

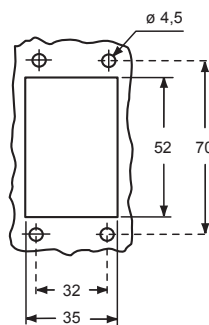
description	part No.	part No.	entry M
with lever and gasket, size "44.27"	<b>C7IE 06 L</b>		
with lever, size "44.27"		<b>M7PE 06 L20</b>	20
with lever, size "44.27"		<b>M7PE 06 L220</b>	20 x 2
with lever, high construction, size "44.27"		<b>M7APE 06 L32</b>	32
with lever, high construction, size "44.27"		<b>M7APE 06L232</b>	32 x 2
with lever, high construction, size "44.27"		<b>M7APE 06 L40</b>	40
with lever, high construction, size "44.27"		<b>M7APE 06L240</b>	40 x 2

- the lever, due to the vertical closing movement, offers an IP66/IP67 degree of protection (according to EN 60529) when fitted with a complete and coupled connector and used with ILME hoods in die cast aluminum with pegs (without adapter, for further information please contact ILME S.p.A.)
- 3.000 hours in salt spray tests (EN ISO 9227) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227) for surface mounting housings
- temperature limits: -40 °C ... +180 °C  
on request -60 °C ... +180 °C with silicone gasket (>125 °C up to 180 °C with RY inserts)

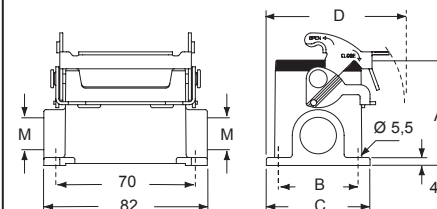
#### C7IE L



panel cut-out for bulkhead mounting housings



#### M7PE L - M7APE L



type	A	B	C	D
<b>M7PE 06 L</b>	53	40	52	70
<b>M7APE 06 L</b>	74	45	57	72,5

**ILME**®  
**US**

Type  
4/4X/12



For bulkhead mounting housings, IP66/IP67 degree of protection is guaranteed for mounting on a sufficiently rigid panel; use suitable length M4 screws (negligible surface buckling when subjected to tightening couple on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector). In case of insufficient rigidity use of C7.. FL counterflanges (page 443) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the counterflange) flat/spring washers with M4 locknut. In addition, the panel surface in contact with the counterflange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.



MH - MF for aggressive environments E-Xtreme®

inserts		page:
CDD	24 poles + ⊕	76
CDS	9 poles + ⊕	-
CDSH	9 poles + ⊕	86
CDSH NC	6 poles + ⊕	95
CNE	6 poles + ⊕	110
CSE	6 poles + ⊕	-
CSH	6 poles + ⊕	110
CSH S	6 poles + ⊕	122
CCE	6 poles + ⊕	130
CSS	6 poles + ⊕	148
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

hoods with 2 moulded pegs



3.000 HOURS

hoods with 2 moulded pegs



3.000 HOURS

description	part No.	entry M	part No.	entry M
with pegs, side entry	MHOE 06 L20M	20		
with pegs, side entry	MHOE 06 L25M	25		
with pegs, side entry, high construction, without adapter <sup>1)</sup>			MFOE 06 L32M	32
with pegs, side entry, high construction, without adapter <sup>1)</sup>			MFOE 06 L40M	40
with pegs, top entry <sup>2) 3)</sup>	MHVE 06 L20M	20		
with pegs, top entry <sup>2)</sup>	MHVE 06 L25M	25		
with pegs, top entry, high construction, without adapter <sup>1)</sup>			MFVE 06 L32M	32
with pegs, top entry, high construction, without adapter <sup>1)</sup>			MFVE 06 L40M	40

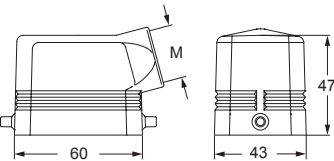
<sup>1)</sup> enclosure without adapter, threaded on the body, to be used only with a complete cable gland.

<sup>2)</sup> cannot be used with MIXO series.

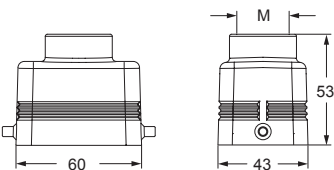
<sup>3)</sup> can only be used with a complete cable gland (to be purchased separately).

- 3.000 hours in salt spray tests (EN ISO 9227) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227) with other E-Xtreme® housings
- temperature limits: -40 °C ... +180 °C  
on request -60 °C ... +180 °C with silicone gasket (>125 °C up to 180 °C with RY inserts)
- alternatively, hoods with pegs are coupled with fixed enclosures:
  - C7 E-Xtreme®, IP66/IP67, page 530
  - C-TYPE E-Xtreme®, IP66, page 542

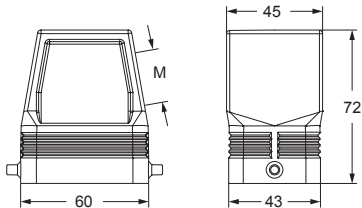
MHOE L..M



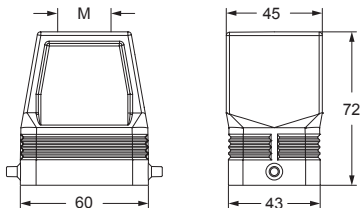
MHVE L..M



MFOE L..M



MFVE L..M



CALUS Type 4/4X/12



IP67 if hoods with fused pegs and without adapters coupled with IP67 housings according to the type of lever also IP69 according to IEC/EN 60529



inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CT, CTSE (16A) *)	10 poles + ⊕	161
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

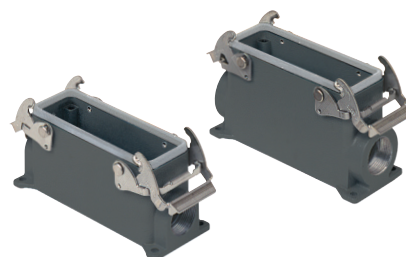
\*) can be used only in bulkhead mounting housings

### bulkhead mounting housings with 2 levers in stainless steel



**3.000 HOURS**

### surface mounting housings with 2 levers in stainless steel

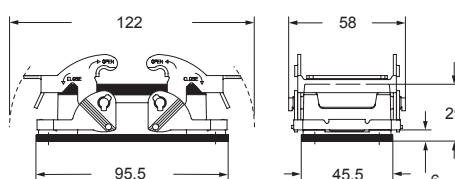


**2.000 HOURS**

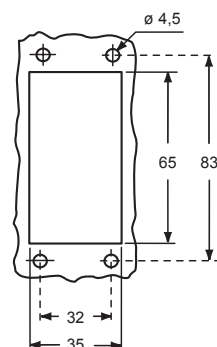
description	part No.	part No.	entry M
with levers and gasket, size "57.27"	<b>C7IE 10</b>		
with levers, size "57.27"		<b>M7PE 10.20</b>	20
with levers, size "57.27"		<b>M7PE 10.220</b>	20 x 2
with levers, high construction, size "57.27"		<b>M7APE 10.32</b>	32
with levers, high construction, size "57.27"		<b>M7APE 10.232</b>	32 x 2
with levers, high construction, size "57.27"		<b>M7APE 10.40</b>	40
with levers, high construction, size "57.27"		<b>M7APE 10.240</b>	40 x 2

- the lever, due to the vertical closing movement, offers an IP66/IP67 degree of protection (according to EN 60529) when fitted with a complete and coupled connector and used with ILME hoods in die cast aluminum with pegs (without adapter, for further information please contact ILME S.p.A.)
- 3.000 hours in salt spray tests (EN ISO 9227) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227) for surface mounting housings
- temperature limits: -40 °C ... +180 °C  
on request -60 °C ... +180 °C with silicone gasket (>125 °C up to 180 °C with RY inserts)

### C7IE

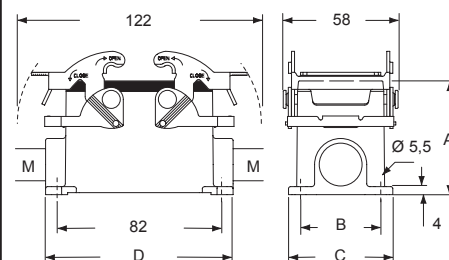


### panel cut-out for bulkhead mounting housings



For bulkhead mounting housings, IP66/IP67 degree of protection is guaranteed for mounting on a sufficiently rigid panel; use suitable length M4 screws (negligible surface buckling when subjected to tightening couple on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector). In case of insufficient rigidity use of C7.. FL counterflanges (page 443) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the counterflange) flat/spring washers with M4 locknut. In addition, the panel surface in contact with the counterflange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

### M7PE - M7APE



type	A	B	C	D
<b>M7PE 10</b>	57	40	52	93,5
<b>M7APE 10</b>	74	45	57	94

**CAUS** Type  
4/4X/12





MH - MF for aggressive environments E-Xtreme®

inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

hoods with 4 moulded pegs



3.000 HOURS

hoods with 4 moulded pegs



3.000 HOURS

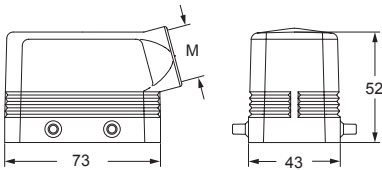
description	part No.	entry M	part No.	entry M
with pegs, side entry	MHOE 10.20M	20		
with pegs, side entry	MHOE 10.25M	25		
with pegs, side entry, high construction, without adapter <sup>1)</sup>			MFOE 10.32M	32
with pegs, side entry, high construction, without adapter <sup>1)</sup>			MFOE 10.40M	40
with pegs, top entry <sup>2)</sup>	MHVE 10.20M	20		
with pegs, top entry	MHVE 10.25M	25		
with pegs, top entry, high construction, without adapter <sup>1)</sup>			MFVE 10.32M	32
with pegs, top entry, high construction, without adapter <sup>1)</sup>			MFVE 10.40M	40

<sup>1)</sup> enclosure without adapter, threaded on the body, to be used only with a complete cable gland.

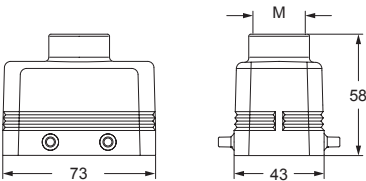
<sup>2)</sup> can only be used with a complete cable gland (to be purchased separately)

- 3.000 hours in salt spray tests (EN ISO 9227) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227) with other E-Xtreme® housings
- temperature limits: -40 °C ... +180 °C on request -60 °C ... +180 °C with silicone gasket (>125 °C up to 180 °C with RY inserts)
- alternatively, hoods with pegs are coupled with fixed enclosures:
  - C7 E-Xtreme®, IP66/IP67, page 532
  - C-TYPE E-Xtreme®, IP66, page 543

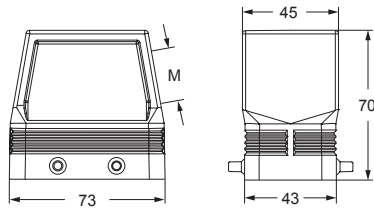
MHOE..M



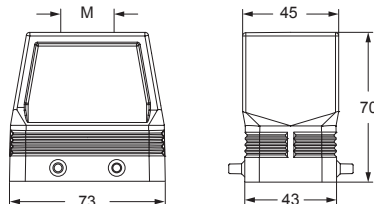
MHVE..M



MFOE..M



MFVE..M



CALUS Type 4/4X/12



IP67 if hoods with fused pegs and without adapters coupled with IP67 housings according to the type of lever also IP69 according to IEC/EN 60529

inserts		page:
CD	40 poles + ⊕	70
CDD	72 poles + ⊕	79
CDS	27 poles + ⊕	-
CDSH	27 poles + ⊕	88
CNE	16 poles + ⊕	112
CSE	16 poles + ⊕	-
CSH	16 poles + ⊕	112
CSH S	16 poles + ⊕	124
CCE	16 poles + ⊕	132
CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CT, CTS (10A) *)	40 poles + ⊕	156
CT, CTSE (16A) *)	16 poles + ⊕	162
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

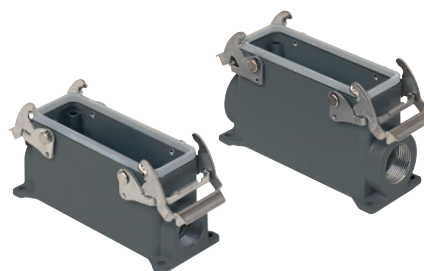
\*) can be used only in bulkhead mounting housings

### bulkhead mounting housings with 2 levers in stainless steel



**3.000 HOURS**

### surface mounting housings with 2 levers in stainless steel

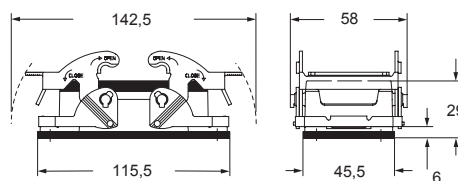


**2.000 HOURS**

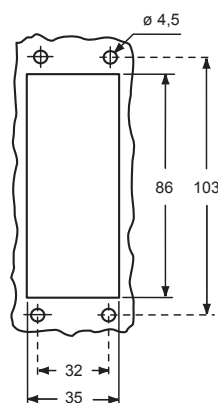
description	part No.	part No.	entry M
with levers and gasket, size "77.27"	<b>C7IE 16</b>		
with levers, size "77.27"		<b>M7PE 16.25</b>	25
with levers, size "77.27"		<b>M7PE 16.225</b>	25 x 2
with levers, high construction, size "77.27"		<b>M7APE 16.32</b>	32
with levers, high construction, size "77.27"		<b>M7APE 16.232</b>	32 x 2
with levers, high construction, size "77.27"		<b>M7APE 16.40</b>	40
with levers, high construction, size "77.27"		<b>M7APE 16.240</b>	40 x 2

- the lever, due to the vertical closing movement, offers an IP66/IP67 degree of protection (according to EN 60529) when fitted with a complete and coupled connector and used with ILME hoods in die cast aluminum with pegs (without adapter, for further information please contact ILME S.p.A.)
- 3.000 hours in salt spray tests (EN ISO 9227) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227) for surface mounting housings
- temperature limits: -40 °C ... +180 °C  
on request -60 °C ... +180 °C with silicone gasket (>125 °C up to 180 °C with RY inserts)

#### C7IE

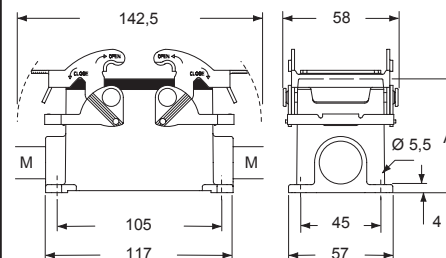


#### panel cut-out for bulkhead mounting housings



For bulkhead mounting housings, IP66/IP67 degree of protection is guaranteed for mounting on a sufficiently rigid panel; use suitable length M4 screws (negligible surface buckling when subjected to tightening couple on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector). In case of insufficient rigidity use of C7.. FL counterflanges (page 443) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the counterflange) flat/spring washers with M4 locknut. In addition, the panel surface in contact with the counterflange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

#### M7PE - M7APE



type	A
<b>M7PE 16</b>	63
<b>M7APE 16</b>	81

**CAUS** Type  
4/4X/12





MH - MF for aggressive environments E-Xtreme®

inserts		page:
CD	40 poles + ⊕	70
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CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

hoods with 4 moulded pegs



3.000 HOURS

hoods with 4 moulded pegs



3.000 HOURS

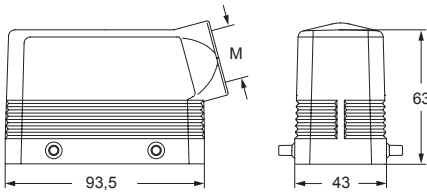
description	part No.	entry M	part No.	entry M
with pegs, side entry	MHOE 16.25M	25		
with pegs, side entry	MHOE 16.32M	32		
with pegs, side entry, high construction, without adapter <sup>1)</sup>			MFOE 16.32M	32
with pegs, side entry, high construction, without adapter <sup>1)</sup>			MFOE 16.40M	40
with pegs, top entry <sup>2)</sup>	MHVE 16.25M	25		
with pegs, top entry	MHVE 16.32M	32		
with pegs, top entry, high construction, without adapter <sup>1)</sup>			MFVE 16.32M	32
with pegs, top entry, high construction, without adapter <sup>1)</sup>			MFVE 16.40M	40

<sup>1)</sup> enclosure without adapter, threaded on the body, to be used only with a complete cable gland.

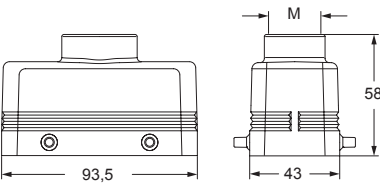
<sup>2)</sup> can only be used with a complete cable gland (to be purchased separately)

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- 2.000 hours in salt spray tests (EN ISO 9227) with other E-Xtreme® housings
- temperature limits: -40 °C ... +180 °C on request -60 °C ... +180 °C with silicone gasket (>125 °C up to 180 °C with RY inserts)
- alternatively, hoods with pegs are coupled with fixed enclosures:
  - C7 E-Xtreme®, IP66/IP67, page 534
  - C-TYPE E-Xtreme®, IP66, page 544

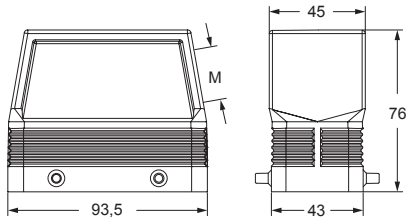
MHOE..M



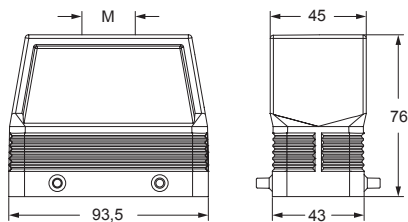
MHVE..M



MFOE..M



MFVE..M



**CALUS** Type 4/4X/12

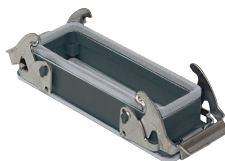


IP67 if hoods with fused pegs and without adapters coupled with IP67 housings according to the type of lever also IP69 according to IEC/EN 60529

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CT, CTS (10A) *)	64 poles + ⊕	157
CT, CTSE (16A) *)	24 poles + ⊕	163
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204 and 206
MIXO	6 modules	262 - 317

\*) can be used only in bulkhead mounting housings

### bulkhead mounting housings with 2 levers in stainless steel



**3.000 HOURS**

### surface mounting housings with 2 levers in stainless steel

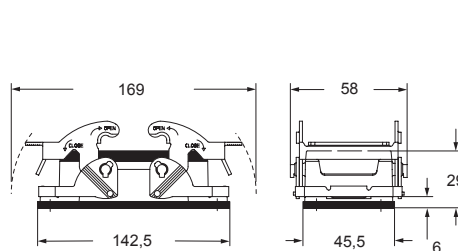


**2.000 HOURS**

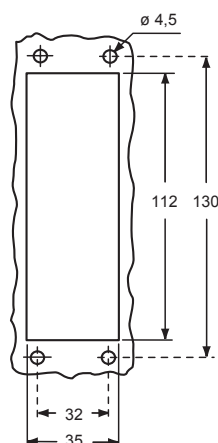
description	part No.	part No.	entry M
with levers and gasket, size "104.27"	<b>C7IE 24</b>		
with levers, size "104.27"		<b>M7PE 24.25</b>	25
with levers, size "104.27"		<b>M7PE 24.225</b>	25 x 2
with levers, high construction, size "104.27"		<b>M7APE 24.32</b>	32
with levers, high construction, size "104.27"		<b>M7APE 24.232</b>	32 x 2
with levers, high construction, size "104.27"		<b>M7APE 24.40</b>	40
with levers, high construction, size "104.27"		<b>M7APE 24.240</b>	40 x 2

- the lever, due to the vertical closing movement, offers an IP66/IP67 degree of protection (according to EN 60529) when fitted with a complete and coupled connector and used with ILME hoods in die cast aluminum with pegs (without adapter, for further information please contact ILME S.p.A.)
- 3.000 hours in salt spray tests (EN ISO 9227) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227) for surface mounting housings
- temperature limits: -40 °C ... +180 °C  
on request -60 °C ... +180 °C with silicone gasket (>125 °C up to 180 °C with RY inserts)

### C7IE

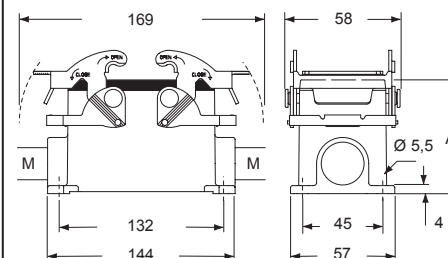


### panel cut-out for bulkhead mounting housings



For bulkhead mounting housings, IP66/IP67 degree of protection is guaranteed for mounting on a sufficiently rigid panel; use suitable length M4 screws (negligible surface buckling when subjected to tightening couple on the fixing screws of 0,8 - 1,2 Nm or deformation caused by the weight of the complete connector). In case of insufficient rigidity use of C7.. FL counterflanges (page 443) is recommended, in which case use suitable length M4 screws and M4 (on the enclosure) and M4 (on the counterflange) flat/spring washers with M4 locknut. In addition, the panel surface in contact with the counterflange gasket of the bulkhead mounting housings must be free from defects (deep scratches, grooves, burrs) that could negatively affect the performance of the gasket.

### M7PE - M7APE



type	A
<b>M7PE 24</b>	63
<b>M7APE 24</b>	81

**CAUS** Type  
4/4X/12





MH - MF for aggressive environments E-Xtreme®

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204 and 206
MIXO	6 modules	262 - 317

hoods with 4 moulded pegs



3.000 HOURS

hoods with 4 moulded pegs



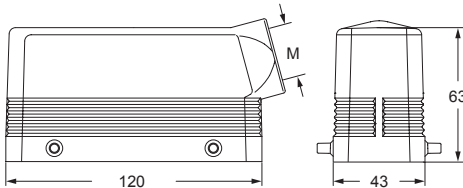
3.000 HOURS

description	part No.	entry M	part No.	entry M
with pegs, side entry	MHOE 24.25M	25		
with pegs, side entry	MHOE 24.32M	32		
with pegs, side entry, high construction, without adapter <sup>1)</sup>			MFOE 24.32M	32
with pegs, side entry, high construction, without adapter <sup>1)</sup>			MFOE 24.40M	40
with pegs, top entry <sup>2)</sup>	MHVE 24.25M	25		
with pegs, top entry	MHVE 24.32M	32		
with pegs, top entry	MHVE 24.40M	40		
with pegs, top entry, high construction, without adapter <sup>1)</sup>			MFVE 24.32M	32
with pegs, top entry, high construction, without adapter <sup>1)</sup>			MFVE 24.40M	40

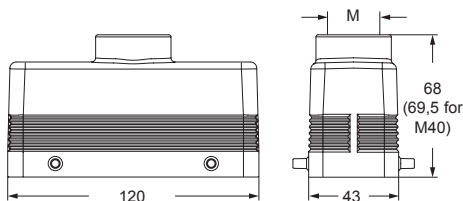
- <sup>1)</sup> enclosure without adapter, threaded on the body, to be used only with a complete cable gland.  
<sup>2)</sup> can only be used with a complete cable gland (to be purchased separately)

- 3.000 hours in salt spray tests (EN ISO 9227) for bulkhead enclosures with V-TYPE lever and hood with moulded pegs (low number of mating cycles)
- 2.000 hours in salt spray tests (EN ISO 9227) with other E-Xtreme® housings
- temperature limits: -40 °C ... +180 °C on request -60 °C ... +180 °C with silicone gasket (>125 °C up to 180 °C with RY inserts)
- alternatively, hoods with pegs are coupled with fixed enclosures:
  - C7 E-Xtreme®, IP66/IP67, page 536
  - C-TYPE E-Xtreme®, IP66, page 545

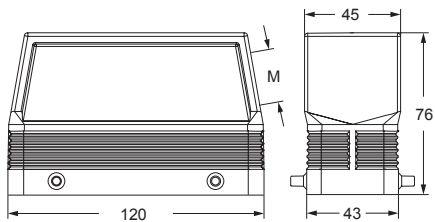
MHOE..M



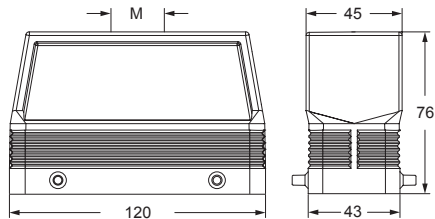
MHVE..M



MFOE..M



MFVE..M



CALUS Type 4/4X/12



IP67 if hoods with fused pegs and without adapters coupled with IP67 housings according to the type of lever also IP69 according to IEC/EN 60529



## inserts

CK	3 poles + ⊕	58
CK	4 poles + ⊕	58
CKS	3 poles + ⊕	-
CKS	4 poles + ⊕	-
CKSH	3 poles + ⊕	63
CKSH	4 poles + ⊕	63
CD	8 poles	67
CQ4	2 poles + ⊕	182
CQ4 H	2 poles + ⊕	183
CQ4	3 poles + ⊕	184
CQ	5 poles + ⊕	186
CQ	7 poles + ⊕	187
CQ	12 poles + ⊕	189
CQ	21 poles	190

## page:

bulkhead mounting housings  
straight and angled

2.000 HOURS

## hoods



2.000 HOURS

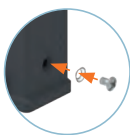
description	part No.	part No. (entry M20)	part No.	part No. (entry M20)
with stainless steel lever and gasket	CKAXE 03 I			
without cable entry, with stainless steel lever and gasket <sup>1)</sup>	CKAXE 03 IA			
with cable entry, with stainless steel lever and gasket <sup>1)</sup>		MKAXE IAP20		
with cable entry, with stainless steel lever and gasket bulkhead hole closed <sup>1)</sup>		MKAXE AP20		
with pegs, top entry <sup>1)</sup>			MKAE V20	
angled, with pegs, side entry <sup>1)</sup>			MKAE VA20	
with stainless steel lever, top entry <sup>1)</sup>			MKAXE VG20	
gasket and screw kit for IP66/IP67/IP69 <sup>2)</sup> for CK, CKSH, CQ4, CQ 05, inserts	CKR 65		CKR 65	
gasket and screw kit for IP66/IP67/IP69 <sup>2)</sup> for CD 08 inserts	CKR 65 D		CKR 65 D	

<sup>1)</sup> Not suitable for CQ4 series inserts

<sup>2)</sup> To obtain the IP66/IP67/IP69 degree of protection it is necessary to replace the fixing screw supplied with all inserts, with the one with gasket included in the kit (to be purchased separately) **except for** the inserts listed below (already supplied with a fixing screw with gasket):

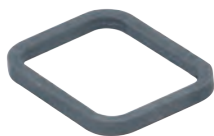
- CQF/M 07, CQF/M 12

NOTE: The enclosure shown here is an example. The screw and sealing gasket kit can be used with all enclosures' part nos. in this page



- 2.000 hours in salt spray tests (EN ISO 9227)  
- temperature limits: -40 °C ... +125 °C

CR 03 W  
FKM optional  
gasket for male  
inserts (to replace  
the gasket already  
provided with the  
insert)

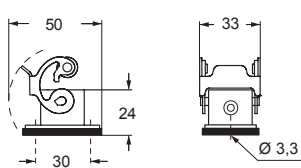


**CAUS**

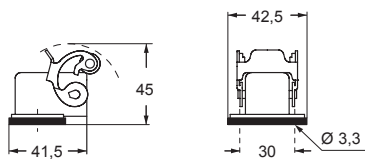
Type 12  
Type 4/4X only  
with CKR 65 (D)

IP66/IP67/IP69 with CKR 65 (D) <sup>2)</sup>

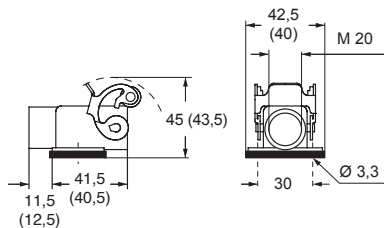
## CKAXE I



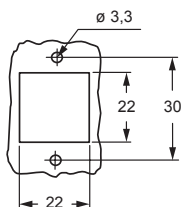
## CKAXE IA



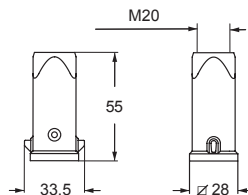
## MKAXE IAP (MKAXE AP)



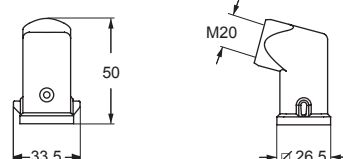
## panel cut-out for bulkhead mounting housings



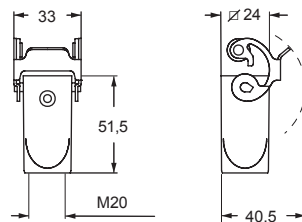
## MKAE V



## MKAE VA



## MKAXE VG





CK and MKA for aggressive environments E-Xtreme®

inserts		page:
CK	3 poles + ⊕	58
CK	4 poles + ⊕	58
CKS	3 poles + ⊕	-
CKS	4 poles + ⊕	-
CKSH	3 poles + ⊕	63
CKSH	4 poles + ⊕	63
CD	8 poles	67
CQ	5 poles + ⊕	186
CQ	7 poles + ⊕	187
CQ	12 poles + ⊕	189
CQ	21 poles	190

angled bulkhead mounting housings



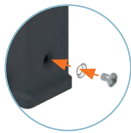
2.000 HOURS

description	part No. (entry M20 / M25)
stainless steel lever, M20 fixing thread (*) 1)	MKAXE IAF20
stainless steel lever, M25 fixing thread (*) 1)	MKAXE IAF25
gasket and screw kit for IP66/IP67/IP69 1) for CK, CKSH, CQ4, CQ 05, inserts	CKR 65
gasket and screw kit for IP66/IP67/IP69 1) for CD 07/08 inserts	CKR 65 D

(\*) locknut supplied on request, see catalogue cable glands (articles AS M20N and AS M25N metallic, AS M20L and AS M25L insulating).

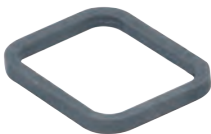
1) To obtain the IP66/IP67/IP69 degree of protection it is necessary to replace the fixing screw supplied with all inserts, with the one with gasket included in the kit (to be purchased separately) **except for** the inserts listed below (already supplied with a fixing screw with gasket):  
- CQF/M 07, CQF/M 12

NOTE: The enclosure shown here is an example.  
The screw and sealing gasket kit can be used with all enclosures' part nos. in this page



- 2.000 hours in salt spray tests (EN ISO 9227)  
- temperature limits: -40 °C ... +125 °C

CR 03 W  
FKM optional  
gasket for male  
inserts (to replace  
the gasket already  
provided with the  
insert)

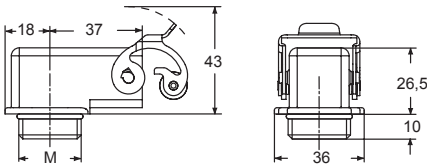


Type 12  
Type 4/4X only  
with CKR 65 (D)

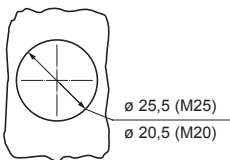


IP66/IP67/IP69 with CKR 65 (D) 1)

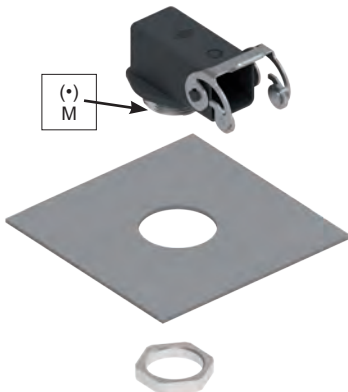
MKAXE IAF



panel cut-out



USE OF THE LOCKNUT





## inserts

CD	15 poles + ⊕	68
CDA	10 poles + ⊕	98
CSAH	10 poles + ⊕	99
CDC	10 poles + ⊕	104
MIXO	1 module	264 - 316

## page:

## housings with single lever in stainless steel and cover



**2.000 HOURS**

## hoods with riveted locking pegs and cover



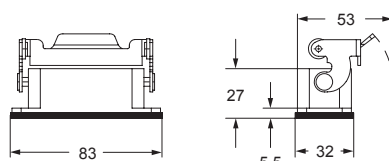
**2.000 HOURS**

## Covers

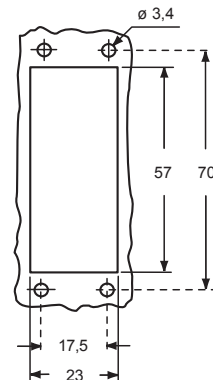
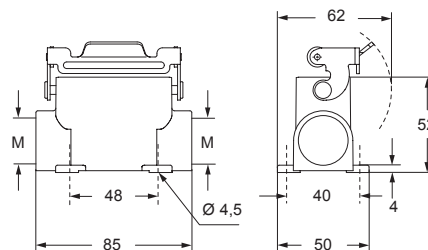
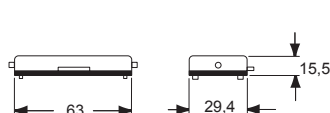
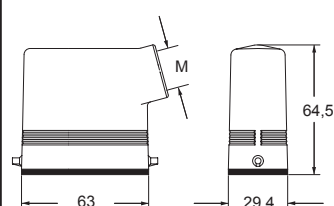
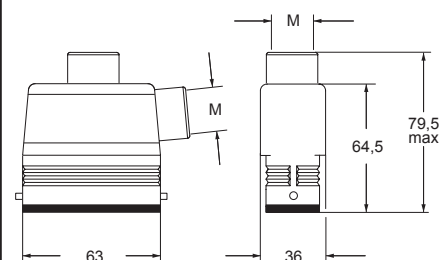
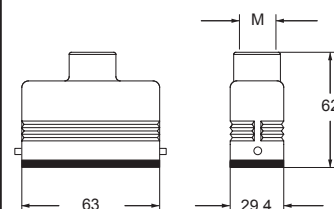
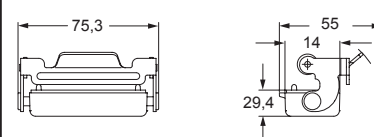
**cannot be used together**  
with metal coding pins.

description	part No.	part No	entry M	part No.	entry M
bulkhead mounting housing, with lever	<b>CZ7IE 15 L</b>				
surface mounting housing, with lever		<b>MZ7PE 15L225</b>	25 x 2		
cover with pegs and gasket (for 1 lever enclosures) <sup>1)</sup>	<b>CZCE 15 L</b>				
with pegs and gasket, side entry				<b>MZOE 15 L20</b>	20
with pegs and gasket, side entry				<b>MZOE 15 L25</b>	25
with pegs and gasket, side entry, high construction				<b>MZAOE 15 L25</b>	25
with pegs and gasket, top entry				<b>MZVE 15 L20</b>	20
with pegs and gasket, top entry, high construction				<b>MZAVE 15 L25</b>	25
cover with lever (for enclosures with pegs) <sup>2)</sup>				<b>CZ7CE 15 LG</b>	

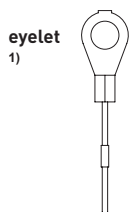
- The rigid lever, offers an IP66/IP67/IP69 degree of protection (according to EN 60529) when fitted with a complete and coupled connector and used with ILME standard hoods in die cast aluminum with pegs (without adapter, for further information please contact ILME S.p.A.)
- 2.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

**CZ7IE L**

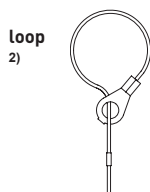
panel cut-out for bulkhead mounting housings

**MZ7PE L****CZCE L****MZOE L****MZAOE L and MZAVE L****MZVE L****CZ7CE LG**

## For fixing on housings



## For fixing on hoods



**CAIUS** Type 4/4X/12



insulating cable gland or fittings without gasket



cable gland with O-Ring gasket



cable gland with O-Ring gasket for housings coupled with either a cover or a hood without adapter ● and for hoods coupled with a cover with lever ●



inserts		page:
CDD	24 poles + ⊕	76
CDS	9 poles + ⊕	-
CDSH	9 poles + ⊕	86
CDSH NC	6 poles + ⊕	95
CNE	6 poles + ⊕	110
CSE	6 poles + ⊕	-
CSH	6 poles + ⊕	110
CSH S	6 poles + ⊕	122
CCE	6 poles + ⊕	130
CSS	6 poles + ⊕	148
CT, CTSE (16A) *	6 poles + ⊕	160
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

\*) only for enclosure CHIE 06 L

## housings with single lever and cover



2.000 HOURS

## hoods with riveted locking pegs and cover

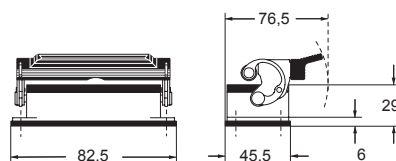


2.000 HOURS

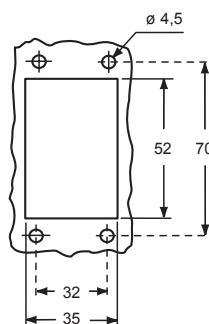
description	part No.	part No	entry M	part No.	entry M
bulkhead mounting housing, with lever and gasket	CHIE 06 L				
surface mounting housing, with lever, high construction		MAPE 06 L32	32		
cover with pegs (for 1 lever enclosures) 1)	CHCE 06 L				
cover with pegs (for 1 lever enclosures) 2)	CHCE 06 SL				
with pegs, side entry, high construction				MAOE 06 L32	32
with pegs, top entry, high construction				MAVE 06 L32	32
cover with lever (for enclosures with pegs) 2)				CHCE 06 LG	
with lever and gasket, top entry, high construction				MAVE 06 LG32	32

- 2.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles
- alternatively, hoods with pegs are coupled with fixed enclosures:
- C7 E-Xtreme®, IP66/IP67 stainless steel lever, page 530

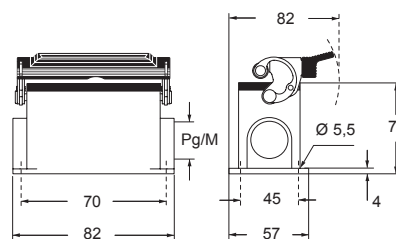
## CHIE L



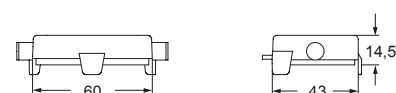
panel cut-out for bulkhead mounting housings



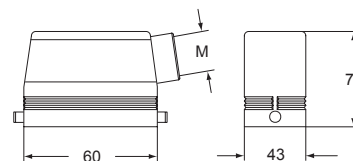
## MAPE L



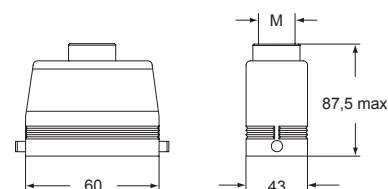
## CHCE L - CHCE SL



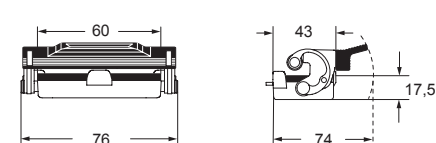
## MAOE L



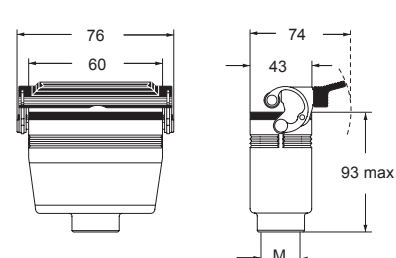
## MAVE L



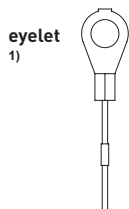
## CHCE LG



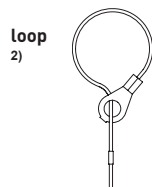
## MAVE LG



For fixing on housings



For fixing on hoods


**CALUS** Type 4/4X/12
insulating cable gland or fittings without gasketcable gland with O-Ring gasket

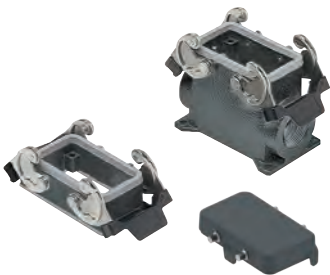


CH and MA for aggressive environments E-Xtreme®

inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CT, CTSE (16A) *)	10 poles + ⊕	161
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

\*) only for enclosure CHIE 10

housings with 2 levers and cover



2.000 HOURS

hoods with riveted locking peg and cover

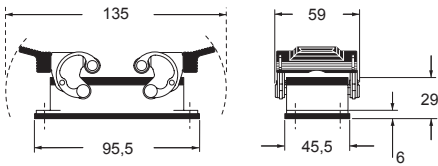


2.000 HOURS

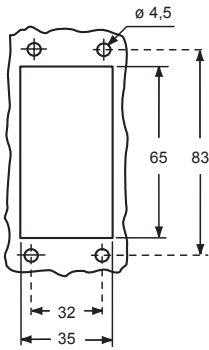
description	part No.	part No	entry M	part No.	entry M
bulkhead mounting housing, with levers and gasket	CHIE 10				
surface mounting housing, with levers, high construction		MAPE 10.32	32		
cover with 4 pegs (for enclosures with 2 levers) 1)	CHCE 10				
cover with 4 pegs (for enclosures with 2 levers) 2)	CHCE 10 S				
with pegs, side entry, high construction				MAOE 10.32	32
with pegs, top entry, high construction				MAVE 10.32	32
cover with 2 levers (for enclosures with 4 pegs) 2)				CHCE 10 G	
with levers and gasket, top entry, high construction				MAVE 10 G32	32

- 2.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles
- alternatively, hoods with pegs are coupled with fixed enclosures:
- C7 E-Xtreme®, IP66/IP67 stainless steel lever, page 532

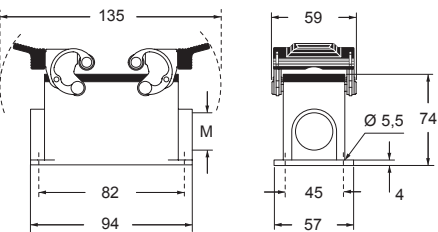
CHIE



panel cut-out for bulkhead mounting housings



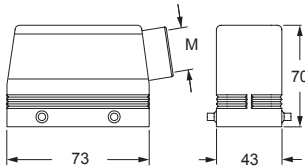
MAPE



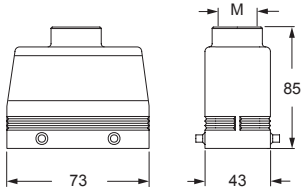
CHCE - CHCE S



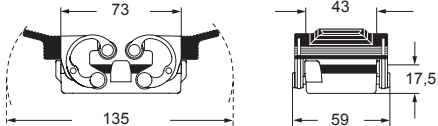
MAOE



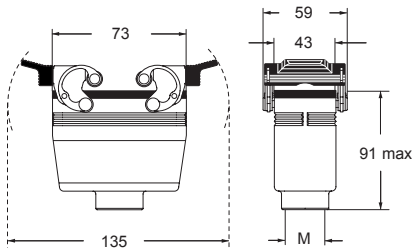
MAVE



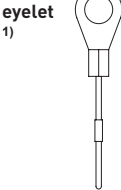
CHCE G



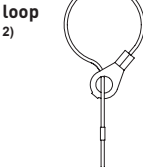
MAVE G



For fixing on housings



For fixing on hoods



CALUS Type 4/4X/12



insulating cable gland or fittings without gasket



cable gland with O-Ring gasket

inserts		page:
CD	40 poles + ⊕	70
CDD	72 poles + ⊕	79
CDS	27 poles + ⊕	-
CDSH	27 poles + ⊕	88
CNE	16 poles + ⊕	112
CSE	16 poles + ⊕	-
CSH	16 poles + ⊕	112
CSH S	16 poles + ⊕	124
CCE	16 poles + ⊕	132
CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CT, CTS (10A) *)	40 poles + ⊕	156
CT, CTSE (16A) *)	16 poles + ⊕	162
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

\*) only for enclosure CHIE 16

## housings with 2 levers and cover



2.000 HOURS

## hoods with riveted locking pegs and cover

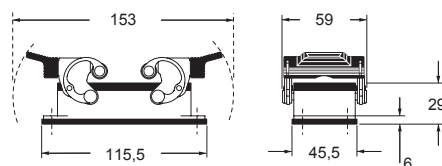


2.000 HOURS

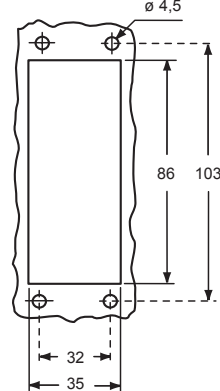
description	part No.	part No	entry M	part No.	entry M
bulkhead mounting housing, with levers and gasket	CHIE 16				
surface mounting housing, with levers, high construction		MAPE 16.32	32		
cover with 4 pegs (for enclosures with 2 levers) 1)	CHCE 16				
cover with 4 pegs (for enclosures with 2 levers) 2)	CHCE 16 S				
with pegs, side entry				MHOE 16.25	25
with pegs, side entry				MHOE 16.32	32
with pegs, side entry, high construction				MAOE 16.32	32
with pegs, side entry, high construction				MAOE 16.40	40
with pegs, top entry				MHVE 16.25	25
with pegs, top entry				MHVE 16.32	32
with pegs, top entry, high construction				MAVE 16.32	32
with pegs, top entry, high construction				MAVE 16.40	40
cover with 2 levers (for enclosures with 4 pegs 2)				CHCE 16 G	
with levers and gasket, top entry, high construction				MAVE 16 G32	32

- 2.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles
- alternatively, hoods with pegs are coupled with fixed enclosures:
- C7 E-Xtreme®, IP66/IP67 stainless steel lever, page 534

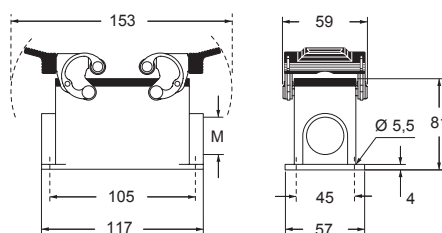
## CHIE



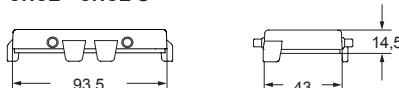
panel cut-out for bulkhead mounting housings



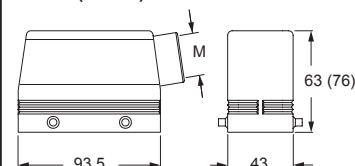
## MAPE



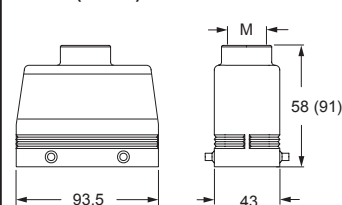
## CHCE - CHCE S



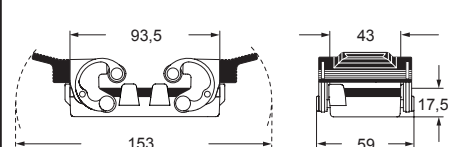
## MHOE (MAOE)



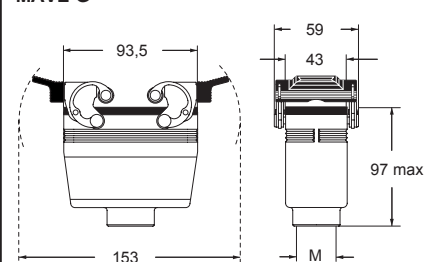
## MHVE (MAVE)



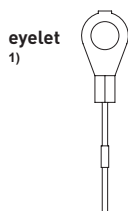
## CHCE G



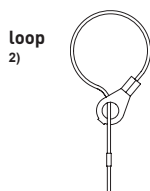
## MAVE G



For fixing on housings



For fixing on hoods


**CALUS** Type 4/4X/12
insulating cable gland or fittings without gasketcable gland with O-Ring gasket





CH and MH - MA for aggressive environments E-Xtreme®

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CT, CTS (10A) *)	64 poles + ⊕	157
CT, CTSE (16A) *)	24 poles + ⊕	163
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204 and 206
MIXO	6 modules	262 - 317

\*) only for enclosure CHIE 24

housings with 2 levers and cover



2.000 HOURS

hoods with riveted locking pegs and cover

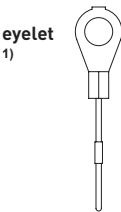


2.000 HOURS

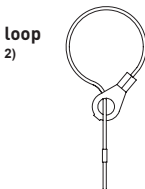
description	part No.	part No	entry M	part No.	entry M
bulkhead mounting housing, with levers and gasket	CHIE 24				
surface mounting housing, with levers, high construction		MAPE 24.32	32		
cover with 4 pegs (for enclosures with 2 levers) 1)	CHCE 24				
cover with 4 pegs (for enclosures with 2 levers) 2)	CHCE 24 S				
with pegs, side entry				MHOE 24.25	25
with pegs, side entry				MHOE 24.32	32
with pegs, side entry, high construction				MAOE 24.32	32
with pegs, side entry, high construction				MAOE 24.40	40
with pegs, top entry				MHVE 24.25	25
with pegs, top entry				MHVE 24.32	32
with pegs, top entry, high construction				MAVE 24.32	32
with pegs, top entry, high construction				MAVE 24.40	40
cover with 2 levers (for enclosures with 4 pegs) 2)				CHCE 24 G	
with levers and gasket, top entry, high construction				MAVE 24 G32	32

- 2.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles
- alternatively, hoods with pegs are coupled with fixed enclosures:
- C7 E-Xtreme®, IP66/IP67 stainless steel lever, page 536

For fixing on housings



For fixing on hoods



CALUS Type 4/4X/12

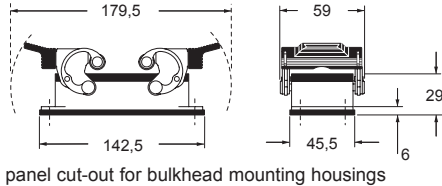


insulating cable gland or fittings without gasket

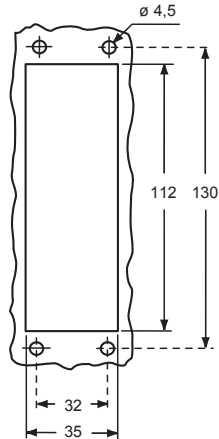


cable gland with O-Ring gasket

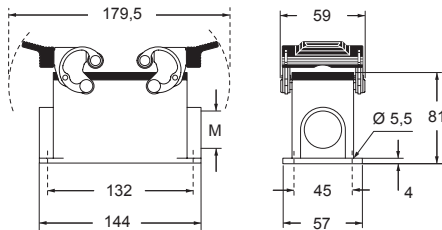
CHIE



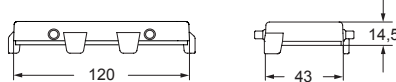
panel cut-out for bulkhead mounting housings



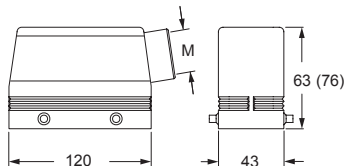
MAPE



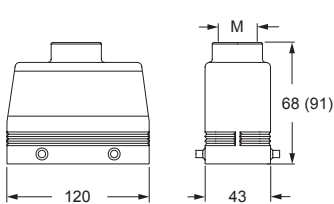
CHCE - CHCE S



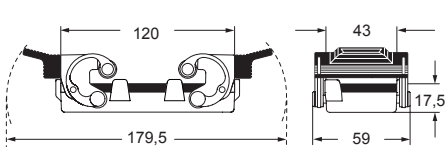
MHOE (MAOE)



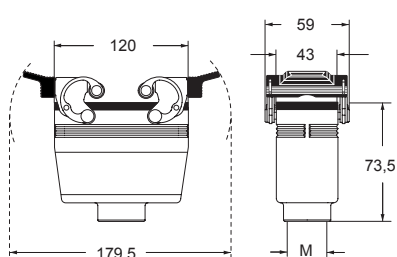
MHVE (MAVE)



CHCE G



MAVE G

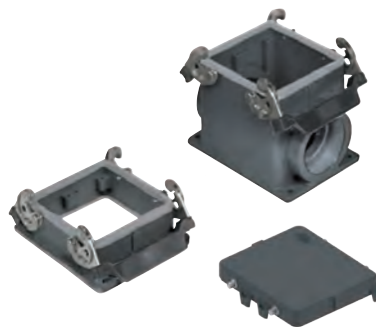


inserts		page:
CD	80 poles + ⊕	73
CDD	144 poles + ⊕	82
CDS	54 poles + ⊕	-
CDSH	54 poles + ⊕	90
CNE	32 poles + ⊕	114
CSE	32 poles + ⊕	-
CSH	32 poles + ⊕	114
CSH S	32 poles + ⊕	126
CCE	32 poles + ⊕	134
CSS	32 poles + ⊕	152
CTSE (16A) *)	32 poles + ⊕	164
CQE	64 poles + ⊕	172
CME	12+4 (aux) poles + ⊕	142
CMSH	12+4 (aux) poles + ⊕	142
CMCE	12+4 (aux) poles + ⊕	143
CP	12 poles + ⊕	179
MIXO	4 + 4 modules	262 - 317

\*) only for enclosure CHIE 32

insert dimensions:  
2 x (77,5 x 27) mm

### housings with 2 levers and cover



**2.000 HOURS**

### hoods with riveted locking pegs and cover

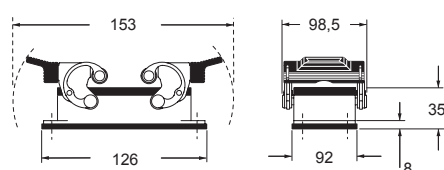


**2.000 HOURS**

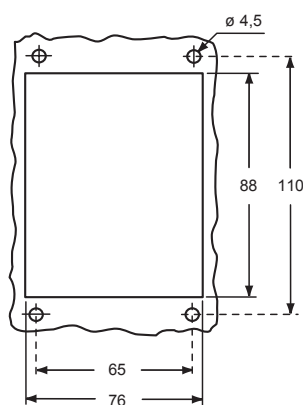
description	part No.	part No	entry M	part No.	entry M
bulkhead mounting housing, with levers and gasket	CHIE 32				
surface mounting housing, with levers, high construction		MHPE 32.50	50		
cover with 4 pegs (for enclosures with 2 levers) <sup>1)</sup>	CHCE 32				
cover with 4 pegs (for enclosures with 2 levers) <sup>2)</sup>	CHCE 32 S				
with pegs, side entry				MHOE 32.40	40
with pegs, top entry				MHVE 32.40	40
cover with 2 levers (for enclosures with 4 pegs) <sup>2)</sup>				CHCE 32 G	
with levers and gasket, top entry				MHVE 32 G40	40

- 2.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

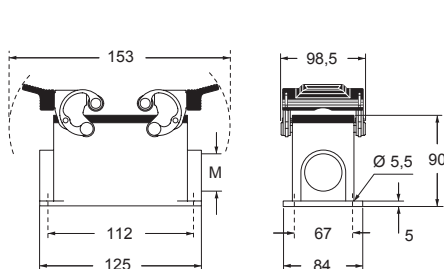
### CHIE



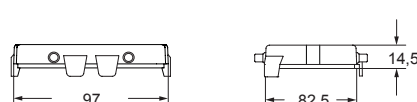
### panel cut-out for bulkhead mounting housings



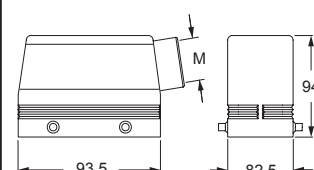
### MHPE



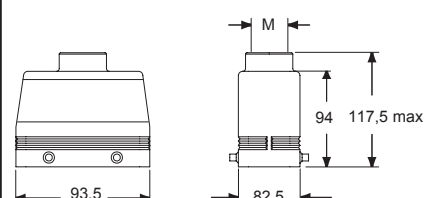
### CHCE - CHCE S



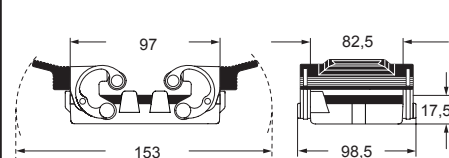
### MHOE



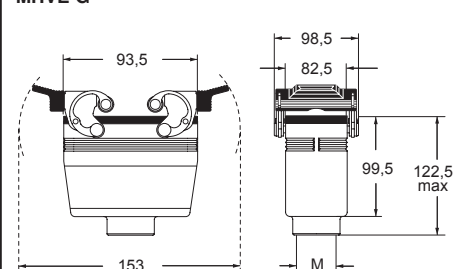
### MHVE



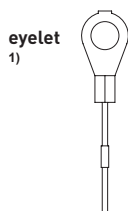
### CHCE G



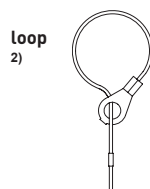
### MHVE G



### For fixing on housings



### For fixing on hoods



**CALUS** Type 4/4X/12



insulating cable gland or fittings without gasket



cable gland with O-Ring gasket



CH and MH for aggressive environments E-Xtreme®

inserts		page:
CD	128 poles + ⊕	74
CDD	216 poles + ⊕	83
CDS	84 poles + ⊕	-
CDSH	84 poles + ⊕	91
CNE	48 poles + ⊕	115
CSE	48 poles + ⊕	-
CSH	48 poles + ⊕	115
CSH S	48 poles + ⊕	127
CCE	48 poles + ⊕	135
CME	20+4 (aux) poles + ⊕	144
CMSH	20+4 (aux) poles + ⊕	144
CSS	48 poles + ⊕	153
CTSE (16A) *)	48 poles + ⊕	165
CQE	92 poles + ⊕	173
MIXO	6 + 6 modules	262 - 317

\*) only for enclosure CHIE 48 LS

insert dimensions:  
2 x (104 x 27) mm

housings  
with single lever



2.000 HOURS

hoods  
with riveted locking pegs



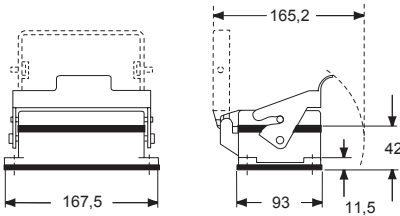
2.000 HOURS

description	part No.	part No	entry M	part No.	entry M
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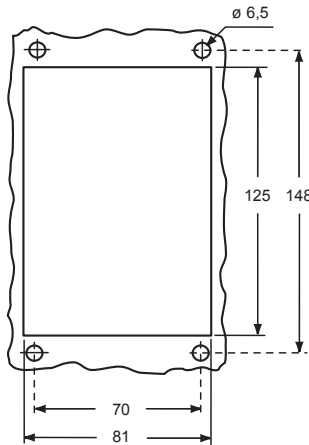
bulkhead mounting housings, with lever, gasket and cover	CHIE 48 LS	MHPE 48 LS40	40 x 2	MHOE 48 L40	40
surface mounting housings, with lever and cover				MHVE 48 L40	40
with pegs, side entry					
with pegs, top entry					

- 2.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- mechanical life: ≥ 500 cycles

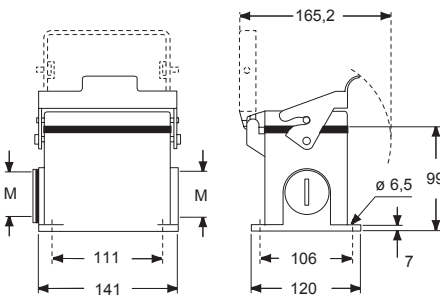
CHIE LS



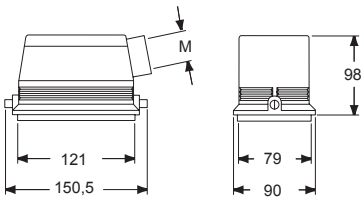
panel cut-out for bulkhead mounting housings



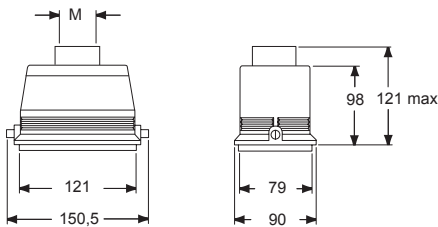
MHPE LS



MHOE L



MHVE L



**CALUS** Type 4/4X/12



insulating cable gland or fittings  
without gasket



cable gland  
with O-Ring gasket




## inserts

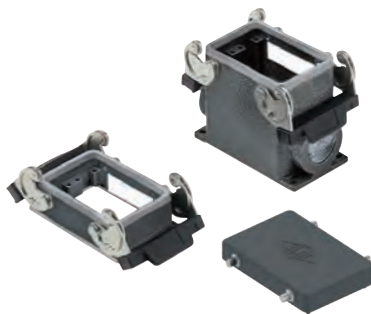
CD	50 poles + ⊕
CDD	76 poles + ⊕
CDA	32 poles + ⊕
CSAH	32 poles + ⊕
CDC	32 poles + ⊕

## page:

71
80
102
103
106

insert dimensions:  
2 x (66 x 16) mm

 Covers  
**cannot be used together**  
with metal coding pins.

housings with 2 levers  
and cover

 **2.000 HOURS**

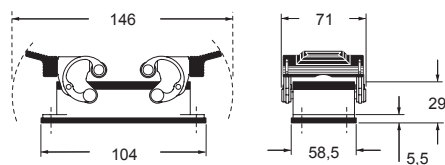
hoods with riveted locking pegs  
and cover

 **2.000 HOURS**

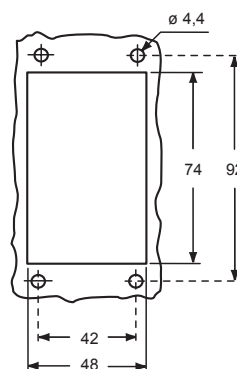
description	part No.	part No	entry M	part No.	entry M
bulkhead mounting housings, with levers and gasket	CHIE 50				
bulkhead mounting housings, with levers		MHPE 50.32	32		
surface mounting housing, with levers		MHPE 50.240	40 x 2		
cover with 4 pegs (for housings with 2 levers) <sup>1)</sup>	CHCE 50				
cover with 4 pegs (for housings with 2 levers) <sup>2)</sup>	CHCE 50 S				
with pegs, side entry				MHOE 50.25	25
with pegs, side entry				MHOE 50.32	32
with pegs, side entry, high construction				MAOE 50.32	32
with pegs, top entry, high construction				MAVE 50.32	32
cover with 2 levers (for enclosures with 4 pegs) <sup>2)</sup>				CHCE 50 G	

- 2.000 hours in salt spray tests (EN ISO 9227)  
- temperature limits: -40 °C ... +125 °C  
- mechanical life: ≥ 500 cycles

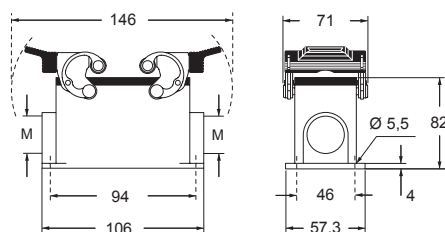
## CHIE



panel cut-out for bulkhead mounting housings



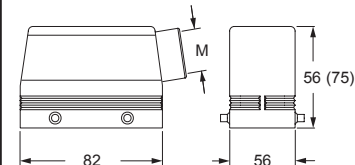
## MHPE



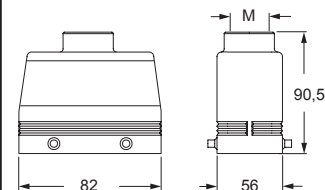
## CHCE - CHCE S



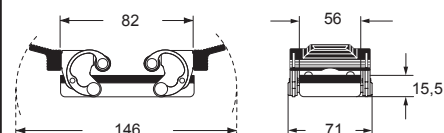
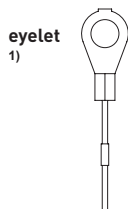
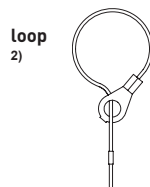
## MHOE (MAOE)



## MAVE



## CHCE G

For fixing  
on housingsFor fixing  
on hoods

**CALUS** Type  
4/4X/12



insulating cable gland or fittings  
without gasket



cable gland  
with O-Ring gasket

inserts		page:
CDD	24 poles + ⊕	76
CDS	9 poles + ⊕	-
CDSH	9 poles + ⊕	86
CDSH NC	6 poles + ⊕	95
CNE	6 poles + ⊕	110
CSE	6 poles + ⊕	-
CSH	6 poles + ⊕	110
CSH S	6 poles + ⊕	122
CCE	6 poles + ⊕	130
CSS	6 poles + ⊕	148
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

bulkhead mounting housings  
screw locking
**3.000 HOURS**
surface mounting housings  
screw locking
**3.000 HOURS**

description

part No.

part No.

entry  
M

with gasket, size "44.27"

CGIE 06

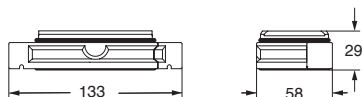
size "44.27"

MGPE 06.32

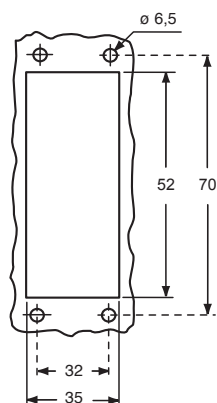
32

- 3.000 hours in salt spray tests (EN ISO 9227)  
 - temperature limits: -40 °C ... +125 °C  
 on request -60 °C ... +180 °C with silicone gasket  
 (>125 °C up to 180 °C with RY inserts)

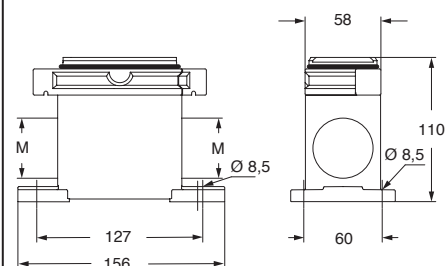
## CGIE



panel cut-out for bulkhead mounting housings



## MGPE



CGCP FX  
 Dust protection  
 cover  
 (from page 697)



**CAUS**® Type  
 4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version E-Xtreme®

inserts		page:
CDD	24 poles + ⊕	76
CDS	9 poles + ⊕	-
CDSH	9 poles + ⊕	86
CDSH NC	6 poles + ⊕	95
CNE	6 poles + ⊕	110
CSE	6 poles + ⊕	-
CSH	6 poles + ⊕	110
CSH S	6 poles + ⊕	122
CCE	6 poles + ⊕	130
CSS	6 poles + ⊕	148
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

hoods,  
screw locking



**3.000 HOURS**

covers,  
screw locking

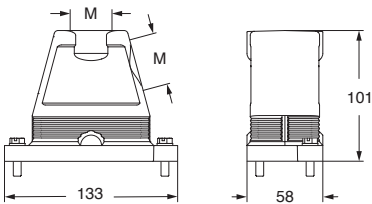


**3.000 HOURS**

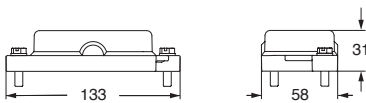
description	part No.	entry M	part No.
with side entry			
size “44.27”	MGOE 06.25	25	
size “44.27”	MGOE 06.32	32	
with top entry			
size “44.27”	MGVE 06.25	25	
size “44.27”	MGVE 06.32	32	
size “44.27”	MGVE 06.40	40	
size “44.27”			CGCE 06

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- on request -60 °C ... +180 °C with silicone gasket
- (>125 °C up to 180 °C with RY inserts)

MGOE and MGVE



CGCE



CGCP MB  
Dust protection  
cover  
(from page 697)



**CAUS** Type  
4/4X/12



according to IEC/EN 60529

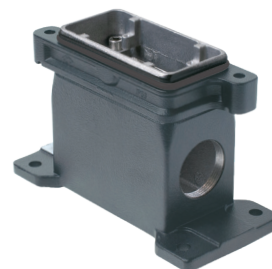
inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

### bulkhead mounting housings screw locking



**3.000 HOURS**

### surface mounting housings screw locking



**3.000 HOURS**

description

part No.

part No.

entry  
M

with gasket, size "57.27"

CGIE 10

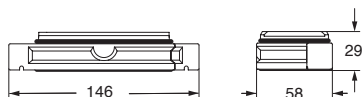
size "57.27"

MGPE 10.32

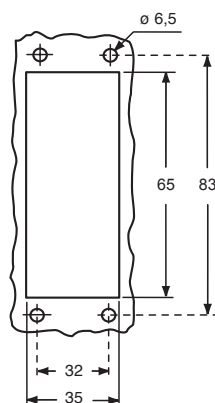
32

- 3.000 hours in salt spray tests (EN ISO 9227)  
- temperature limits: -40 °C ... +125 °C  
on request -60 °C ... +180 °C with silicone gasket  
(>125 °C up to 180 °C with RY inserts)

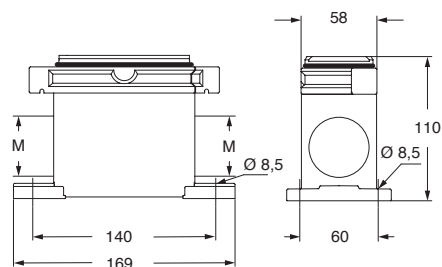
### CGIE



panel cut-out for bulkhead mounting housings



### MGPE



CGCP FX  
Dust protection  
cover  
(from page 697)



**CAUS**

Type  
4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version E-Xtreme®

inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

hoods,  
screw locking



**3.000 HOURS**

covers,  
screw locking

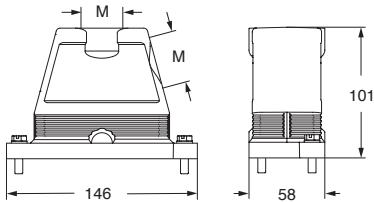


**3.000 HOURS**

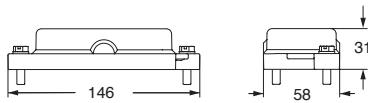
description	part No.	entry M	part No.
with side entry size "57.27"	MGOE 10.25	25	
size "57.27"	MGOE 10.32	32	
with top entry size "57.27"	MGVE 10.25	25	
size "57.27"	MGVE 10.32	32	
size "57.27"	MGVE 10.40	40	
size "57.27"			CGCE 10

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- on request -60 °C ... +180 °C with silicone gasket
- (>125 °C up to 180 °C with RY inserts)

MGOE and MGVE



CGCE



CGCP MB  
Dust protection  
cover  
(from page 697)



**CAUS** Type  
4/4X/12



according to IEC/EN 60529

inserts		page:
CD	40 poles + ⊕	70
CDD	72 poles + ⊕	79
CDS	27 poles + ⊕	-
CDSH	27 poles + ⊕	88
CNE	16 poles + ⊕	112
CSE	16 poles + ⊕	-
CSH	16 poles + ⊕	112
CSH S	16 poles + ⊕	124
CCE	16 poles + ⊕	132
CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

### bulkhead mounting housings screw locking



**3.000 HOURS**

### surface mounting housings screw locking



**3.000 HOURS**

description

part No.

part No.

entry  
M

with gasket, size "77.27"

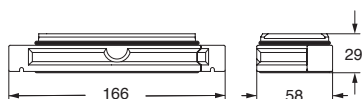
CGIE 16

size "77.27"

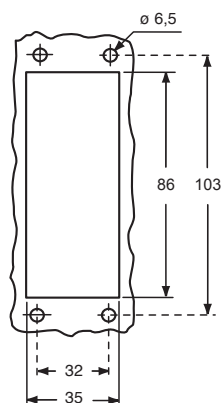
MGPE 16.40 40

- 3.000 hours in salt spray tests (EN ISO 9227)  
- temperature limits: -40 °C ... +125 °C  
on request -60 °C ... +180 °C with silicone gasket  
(>125 °C up to 180 °C with RY inserts)

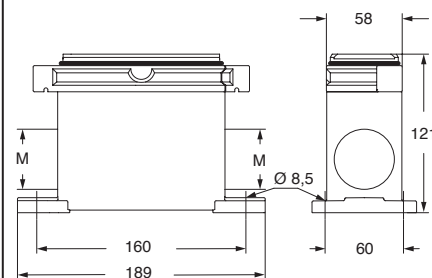
### CGIE



panel cut-out for bulkhead mounting housings



### MGPE



CGCP FX  
Dust protection  
cover  
(from page 697)



**CAUS**® Type  
4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version E-Xtreme®

inserts		page:
CD	40 poles + ⊕	70
CDD	72 poles + ⊕	79
CDS	27 poles + ⊕	-
CDSH	27 poles + ⊕	88
CNE	16 poles + ⊕	112
CSE	16 poles + ⊕	-
CSH	16 poles + ⊕	112
CSH S	16 poles + ⊕	124
CCE	16 poles + ⊕	132
CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

hoods,  
screw locking



3.000 HOURS

covers,  
screw locking



3.000 HOURS

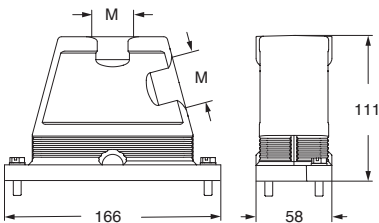
description	part No.	entry M	part No.
-------------	----------	------------	----------

with side entry			
size "77.27"	MGOE 16.32	32	
size "77.27"	MGOE 16.40	40	
size "77.27"	MGOE 16.50	50	
with top entry			
size "77.27"	MGVE 16.25	25	
size "77.27"	MGVE 16.225	25 x 2	
size "77.27"	MGVE 16.32	32	
size "77.27"	MGVE 16.40	40	
size "77.27"	MGVE 16.50	50	

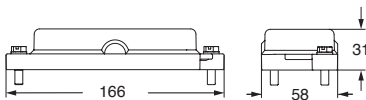
CGCE 16

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- on request -60 °C ... +180 °C with silicone gasket
- (>125 °C up to 180 °C with RY inserts)

MGOE and MGVE



CGCE



CGCP MB  
Dust protection  
cover  
(from page 697)



**CALUS** Type  
4/4X/12



according to IEC/EN 60529

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

**bulkhead mounting housings**  
**screw locking**

**3.000 HOURS**
**surface mounting housings**  
**screw locking**

**3.000 HOURS**

description

part No.

part No.

entry  
M

with gasket, size "104.27"

**CGIE 24**

size "104.27"

**MGPE 24.40**

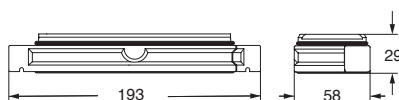
40

size "104.27"

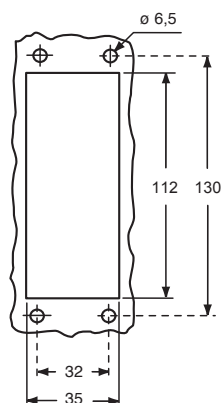
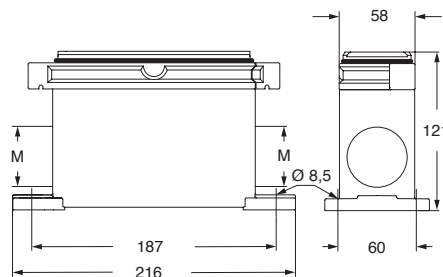
**MGPE 24.240**

40 x 2

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- on request -60 °C ... +180 °C with silicone gasket
- (>125 °C up to 180 °C with RY inserts)

**CGIE**

panel cut-out for bulkhead mounting housings

**MGPE**
**CGCP FX**  
**Dust protection**  
**cover**  
**(from page 697)**

**CAUS**® Type  
**4/4X/12**


according to IEC/EN 60529





CG and MG high protection IP68 version E-Xtreme®

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

hoods,  
screw locking



**3.000 HOURS**

covers,  
screw locking



**3.000 HOURS**

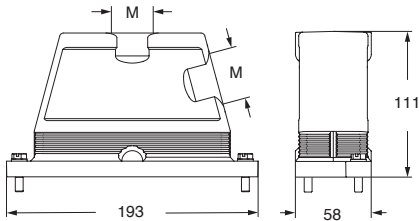
description	part No.	entry M	part No.
-------------	----------	------------	----------

with side entry		
size “104.27”	<b>MGOE 24.32</b>	32
size “104.27”	<b>MGOE 24.40</b>	40
size “104.27”	<b>MGOE 24.50</b>	50
with top entry		
size “104.27”	<b>MGVE 24.325</b>	25 x 3
size “104.27”	<b>MGVE 24.32</b>	32
size “104.27”	<b>MGVE 24.232</b>	32 x 2
size “104.27”	<b>MGVE 24.40</b>	40
size “104.27”	<b>MGVE 24.240</b>	40 x 2
size “104.27”	<b>MGVE 24.50</b>	50

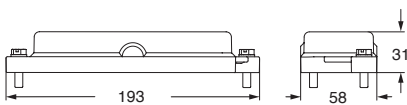
CGCE 24

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +125 °C
- on request -60 °C ... +180 °C with silicone gasket
- (>125 °C up to 180 °C with RY inserts)

MGOE and MGVE



CGCE



**CGCP MB**  
Dust protection  
cover  
(from page 697)



**CAUS** Type  
4/4X/12

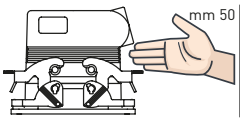
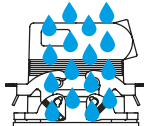
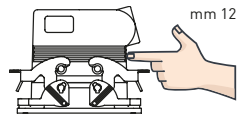
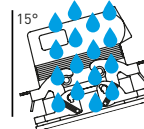
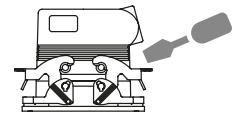
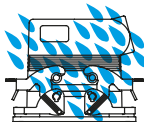
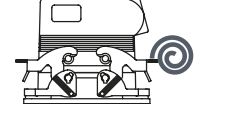
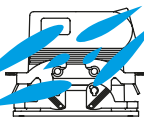
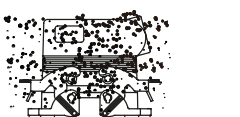
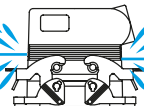
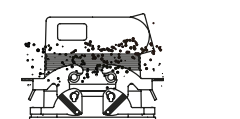
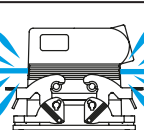
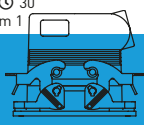
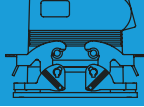
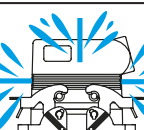


according to IEC/EN 60529

## THE DEGREE OF PROTECTION

The connector's housing, sealing and locking mechanism protect the connection from external influences such as mechanical shocks, foreign bodies, humidity, dust, water or other fluids such as cleansing and cooling agents, oils, etc. The degree of protection the housing offers is explained in the IEC 60529, DIN EN 60529, standards that categorize enclosures according to foreign body and water protection.

The following table shows the **IP (Ingress Protection) Ratings Guide**.

FIRST Index figure	Degree of protection SOLIDS		SECOND Index figure	Degree of protection WATER	
0		No protection	0		No protection
1		Protected against access to hazardous parts with the back of a hand and protected against solid foreign objects of Ø 50 mm and greater	1		Protected against vertically falling water drops
2		Protected against access to hazardous parts with a finger - protected against solid foreign objects of Ø 12,5 mm and greater	2		Protected against vertically falling water drops when enclosure tilted up to 15° (on either side of the vertical)
3		Protected against access to hazardous parts with a tool - protected against solid foreign objects of Ø 2,5 mm and greater	3		Protected against spraying water (at an angle up to 60° on either side of the vertical)
4		Protected against access to hazardous parts with a wire - protected against solid foreign objects of Ø 1,0 mm and greater	4		Protected against splashing water from any direction
5		Protected against access to hazardous parts with a wire dust-protected (no harmful dust deposit)	5		Protected against water jets from any direction
6		Protected against access to hazardous parts with a wire dust-tight (total protection against dust)	6		Protected against powerful water jets from any direction (similar to sea waves)
<b>RATING EXAMPLE</b>  <b>IP 65</b>			7		Protected against the effects of temporary immersion in water at a maximum depth of 1 metre for 30 min
			8		Protected against the effects of continuous immersion in water at depth and/or duration upon agreement, more severe than for numeral 7
			9		Protected against high pressure and temperature water jets from any direction

Description according to IEC 60529

## CHANGEOVER FROM PG THREADS TO METRIC

After 31<sup>st</sup> December 1999, the German safety standard DIN VDE 0619 (1987-09) and the standards it refers to - DIN 46319 for dimensions with metric threads and DIN 46320 (T1-T4), DIN 46255 and DIN 46259 for dimensions with Pg threads (Pg = Panzerrohr-Gewinde: literally "threads for armoured pipes") - were withdrawn and European standard EN 50262 "Metric cable glands for electrical installations" has been in force since 1<sup>st</sup> January 2000.

This standard defines the new sizes with metric threads for cable glands according to EN 60423 and establishes the safety prescriptions.

Conversely, it does not specify the dimensions, such as the size of the tightening wrench, the diagonal dimension, or the dimensions of the tightness seals, as was the case in the withdrawn DIN for Pg cable glands.

The standard came definitively into force on 1<sup>st</sup> April 2001, when the contrasting national standards were withdrawn.

It is valid in all member countries of CENELEC (European Electrical Standardisation Committee) and its publication has led to a broadening of the supply of enclosures for multi-pole connectors for industrial use, to include new enclosure versions with cable entry suitable for metric cable glands.

NOTE – In 2016 the new EN 62444:2013 standard "Cable glands for electrical installations" replaced the former to cover only cable gland with metric thread whose range is now M6 through M110 (previously up to M75).

Cable gland producers have introduced the new metric series to add to the Pg size series, to gradually replace the latter type. The transitional period indicated in the new standard should have ended on 1<sup>st</sup> March 2001, after which date the use of cable entry devices with Pg thread and, as a result, enclosures with Pg thread, should have ended in new installations. Nevertheless, both the cable entry devices and the relevant enclosures with Pg thread, may continue to be used as spare parts. For the mandatory **CE** marking of these items, observance of the safety conditions specified by the Low Voltage Directive is sufficient, however adherence to the safety requirements of EN 62444 provides presumption of conformity.

**To distinguish hoods and surface-mounting housings with metric entries from the relevant Pg versions (identified with a C pre-code), the ILME metric types are identified with an M pre-code. The transposition table below indicates the correspondence rule adopted in most cases by ILME for creating the new metric versions.**

### Pg → metric transposition table

Pg	Metric
Pg 11	M20
Pg 13.5	M20
Pg 16	M20
Pg 21	M25
Pg 29	M32
Pg 36	M40
Pg 42	M50

### Cable diameter for use with ILME cable glands

Ø in mm	Metric thread				
Series	20	25	32	40	50
<b>AS M..P</b>	6 - 12,5	10 - 18	14 - 24	15 - 24	23 - 30
<b>AS M..E</b>	8 - 12,5	13,5 - 18	17 - 24	—	—
<b>AG M..T</b>	6 - 8 - 10	11 - 14 - 17	19 - 21 - 24	26 - 29 - 32	35 - 38 - 41
<b>AG M..I</b>	5 - 12,5	9 - 18	14 - 25	18 - 32	24 - 38,5
<b>AG M..R</b>	6 - 8 - 10	11 - 14 - 17	19 - 21 - 24	—	—

For more information, please refer to the technical catalogue on [www.ilme.com](http://www.ilme.com)