inserts: page:
CME ..... 3+2 (aux) poles + ⏚ 149

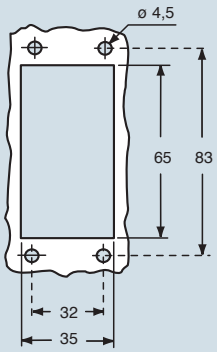
insert centre distance:
57 x 27 mm

bulkhead mounting housings with 2 levers

bulkhead mounting housings with single lever

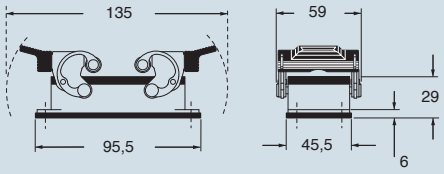
description	part No.	part No.
with one or two levers	**CMI 03**	**CMI 03 L**
with lever and cover		**CMI 03 LS**

panel cut-out for bulkhead mounting housings in mm



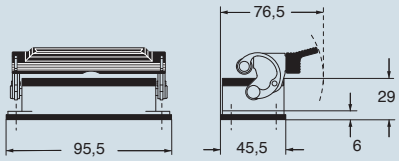
dimensions in mm

CMI

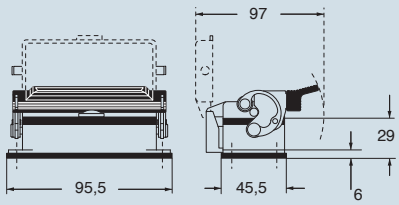


dimensions in mm

CMI L



CMI LS



N.B.:
The enclosures ensure IP66 protection (or IP65 for cover versions) rating when mated and locked with the closing levers.

Type 4/4X/12

IP66 EN 60529 IEC 60529

dimensions shown are not binding
and may be changed without notice

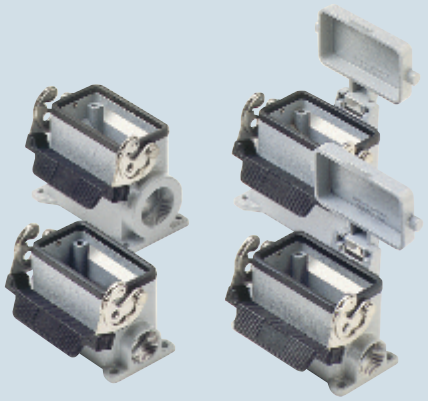
inserts: page:

CME ..... 3+2 (aux) poles + ⏚ 149

insert centre distance:
57 x 27 mm

surface mounting housings with 2 levers

surface mounting housings with single lever

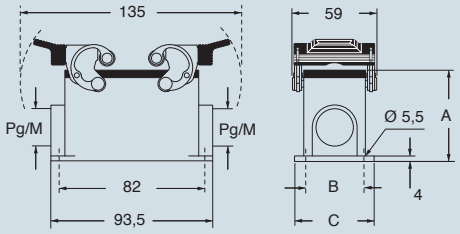


description	part No.	entry Pg	part No.	entry M	part No.	entry Pg	part No.	entry M
with lever/s	**CMP 03**	16	**MMP 03.20**	20	**CMP 03 L**	16	**MMP 03 L20**	20
with lever/s	**CMP 03.2**	16 x 2	**MMP 03.220**	20 x 2	**CMP 03 L2**	16 x 2	**MMP 03 L220**	20 x 2
with lever/s, high construction			**MMAP 03.32**	32			**MMAP 03 L32**	32
with lever/s, high construction			**MMAP 03.232**	32 x 2			**MMAP 03 L232**	32 x 2
with lever/s, high construction			**MMAP 03.40**	40			**MMAP 03 L40**	40
with lever/s, high construction			**MMAP 03.240**	40 x 2			**MMAP 03 L240**	40 x 2
with lever and cover					**CMP 03 LS**	16	**MMP 03 LS20**	20
with lever and cover					**CMP 03 LS2**	16 x 2	**MMP 03 LS220**	20 x 2
with lever and cover, high construction							**MMAP 03 LS32**	32
with lever and cover, high construction							**MMAP 03LS232**	32 x 2
with lever and cover, high construction							**MMAP 03 LS40**	40
with lever and cover, high construction							**MMAP 03LS240**	40 x 2

N.B.:
The enclosures ensure IP66 protection (or IP65 for cover versions) rating when mated and locked with the closing levers.

dimensions in mm

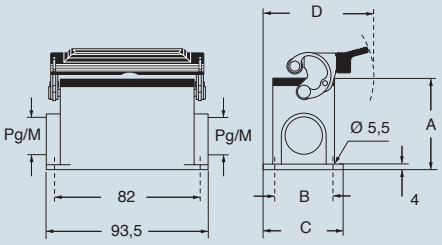
CMP - CMAP and **MMP - MMAP**



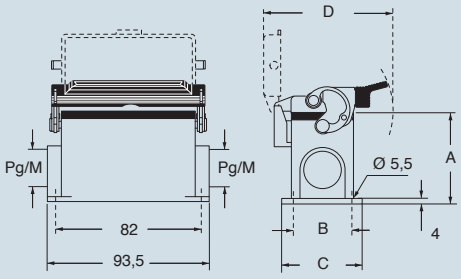
type	A	B	C
CMP / MMP	57	40	52
MMAP	74	45	57

dimensions in mm

CMP L and **MMP L - MMAP L**



CMP LS and **MMP LS - MMAP LS**



type	A	B	C	D
CMP L / MMP L	57	40	52	79.5
MMAP L	74	45	57	82
CMP LS / MMP LS	57	40	52	97
MMAP LS	74	45	57	97

Type 4/4X/12

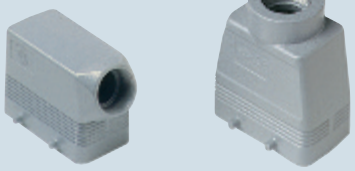
IP66 EN 60529 IEC 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:
CME ..... 3+2 (aux) poles + ⏚ 149

insert centre distance:
57 x 27 mm

hoods with 4 pegs



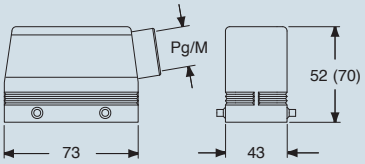
hoods with 2 pegs

description	part No.	entry Pg	part No.	entry M	part No.	entry Pg	part No.	entry M
with pegs, side entry with pegs, side entry with pegs, side entry, high construction with pegs, side entry, high construction	**CMO 03**	16	**MMO 03.20** **MMO 03.25** **MMAO 03.32** **MMAO 03.40**	20 25 32 40	**CMO 03 L**	16	**MMO 03 L20** **MMO 03 L25** **MMAO 03 L32** **MMAO 03 L40**	20 25 32 40
with pegs, top entry with pegs, top entry with pegs, top entry, high construction with pegs, top entry, high construction	**CMV 03**	16	**MMV 03.20** **MMV 03.25** **MMAV 03.32** **MMAV 03.40**	20 25 32 40	**CMV 03 L**	16	**MMV 03 L20** * **MMV 03 L25** **MMAV 03 L32** **MMAV 03 L40**	20 25 32 40

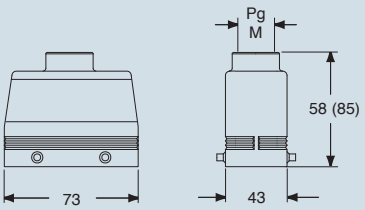
* can only be used with a complete cable gland (to be purchased separately)

dimensions in mm

CMO and **MMO (MMAO)**

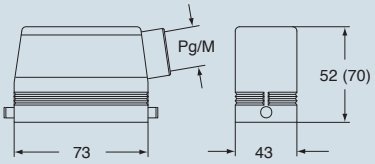


CMV and **MMV (MMAV)**

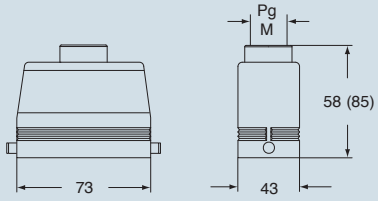


dimensions in mm

CMO L and **MMO L (MMAO L)**



CMV L and **MMV L (MMAV L)**



Type 4/4X/12

IP66 EN 60529 IEC 60529

dimensions shown are not binding
and may be changed without notice

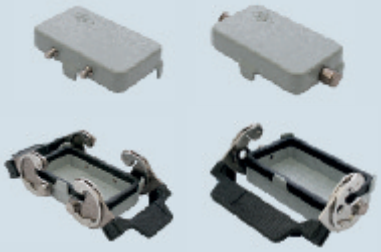
inserts: page:

CME ..... 3+2 (aux) poles + ⏚ 149

insert centre distance:
57 x 27 mm

hoods with 2 levers

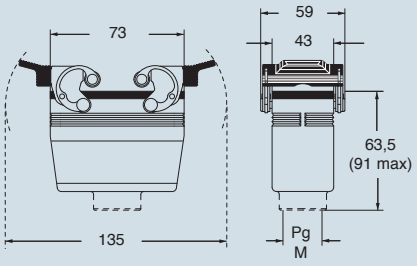
covers



description	part No.	entry Pg	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with levers and gasket, top entry with levers and gasket, top entry, high construction with levers and gasket, top entry, high construction	**CMV 03 G**	16	**MMV 03 G25** **MMAV 03 G25** **MMAV 03 G32**	25 25 32		
with 4 pegs (for enclosures with 2 levers with gasket) with 2 pegs (for enclosures with 1 lever with gasket)					**CHC 10** **CHC 10 L**	
with 2 levers (for hoods with 4 pegs) with 1 lever (for hoods with 2 pegs)						**CHC 10 G** **CHC 10 LG**

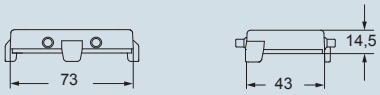
dimensions in mm

CMV G and **MMV G (MMAV G)**

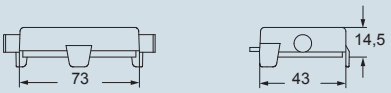


dimensions in mm

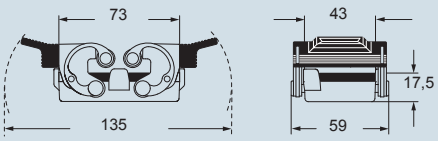
CHC



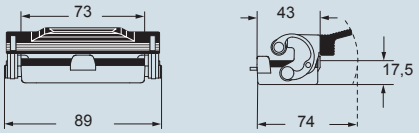
CHC L

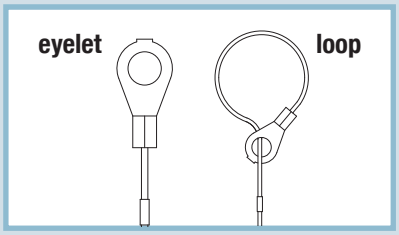


CHC G



CHC LG





Type 4/4X/12

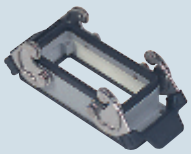
IP66 EN 60529 IEC 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:
CME ..... 6+2 (aux) poles + ⏚ 151

insert centre distance:
77,5 x 27 mm

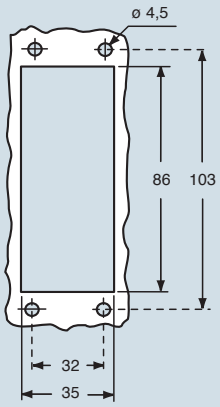
bulkhead mounting housings with 2 levers



bulkhead mounting housings with single lever

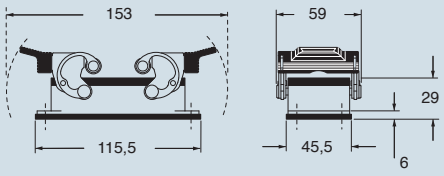
description	part No.	part No.
with one or two levers	**CMI 06**	**CMI 06 L**
with lever and cover		**CMI 06 LS**

panel cut-out for bulkhead mounting housings in mm



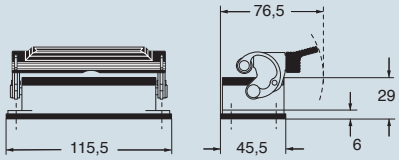
dimensions in mm

CMI

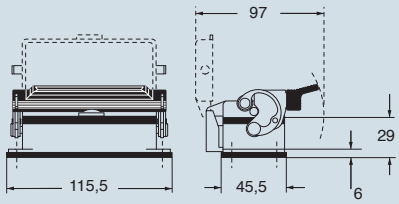


dimensions in mm

CMI L



CMI LS



N.B.:
The enclosures ensure IP66 protection (or IP65 for cover versions) rating when mated and locked with the closing levers.

Type 4/4X/12

IP66 EN 60529 IEC 60529

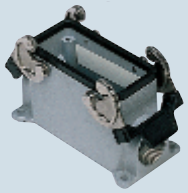
dimensions shown are not binding
and may be changed without notice

inserts: page:

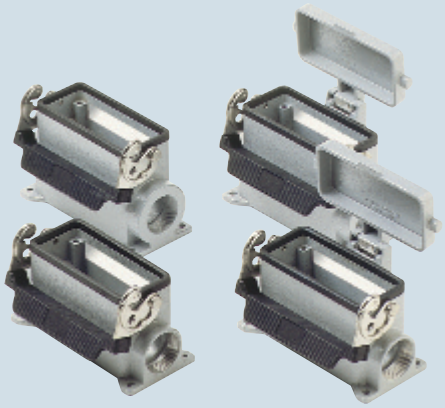
CME ..... 6+2 (aux) poles + ⏚ 151

insert centre distance:
77,5 x 27 mm

surface mounting housings with 2 levers



surface mounting housings with single lever

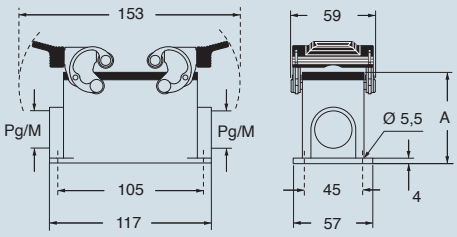


description	part No.	entry Pg	part No.	entry M	part No.	entry Pg	part No.	entry M
with lever/s	**CMP 06**	21	**MMP 06.25**	25	**CMP 06 L**	21	**MMP 06 L25**	25
with lever/s	**CMP 06.2**	21 x 2	**MMP 06.225**	25 x 2	**CMP 06 L2**	21 x 2	**MMP 06 L225**	25 x 2
with lever/s, high construction			**MMAP 06.32**	32			**MMAP 06 L32**	32
with lever/s, high construction			**MMAP 06.232**	32 x 2			**MMAP 06 L232**	32 x 2
with lever/s, high construction			**MMAP 06.40**	40			**MMAP 06 L40**	40
with lever/s, high construction			**MMAP 06.240**	40 x 2			**MMAP 06 L240**	40 x 2
with lever and cover					**CMP 06 LS**	21	**MMP 06 LS25**	25
with lever and cover					**CMP 06 LS2**	21 x 2	**MMP 06 LS225**	25 x 2
with lever and cover, high construction							**MMAP 06 LS32**	32
with lever and cover, high construction							**MMAP 06LS232**	32 x 2
with lever and cover, high construction							**MMAP 06 LS40**	40
with lever and cover, high construction							**MMAP 06LS240**	40 x 2

N.B.:
The enclosures ensure IP66 protection (or IP65 for cover versions) rating when mated and locked with the closing levers.

dimensions in mm

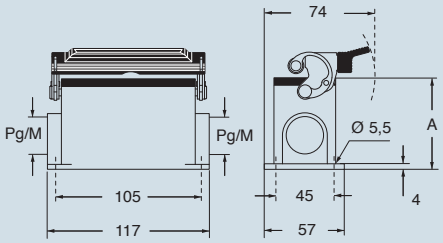
CMP and **MMP - MMAP**



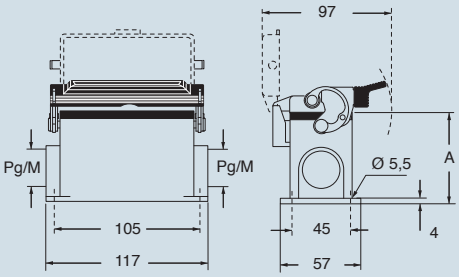
type	A
CMP / MMP	63
MMAP	81

dimensions in mm

CMP L and **MMP L - MMAP L**



CMP LS and **MMP LS - MMAP LS**



type	A
CMP L / MMP L	63
MMAP L	81
CMP LS / MMP LS	63
MMAP LS	81

Type 4/4X/12

IP66 EN 60529 IEC 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:
CME ..... 6+2 (aux) poles + ⏚ 151

insert centre distance:
77,5 x 27 mm

hoods with 4 pegs

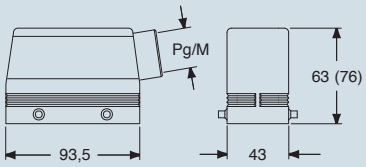
hoods with 2 pegs

description	part No.	entry Pg	part No.	entry M	part No.	entry Pg	part No.	entry M
with pegs, side entry	**CMO 06**	21	**MMO 06.25**	25	**CMO 06 L**	21	**MMO 06 L25**	25
with pegs, side entry			**MMO 06.32**	32			**MMO 06 L32**	32
with pegs, side entry, high construction			**MMAO 06.32**	32			**MMAO 06 L32**	32
with pegs, side entry, high construction			**MMAO 06.40**	40			**MMAO 06 L40**	40
with pegs, top entry	**CMV 06**	21	**MMV 06.25** *	25	**CMV 06 L**	21	**MMV 06 L25**	25
with pegs, top entry			**MMV 06.32**	32			**MMV 06 L32**	32
with pegs, top entry, high construction			**MMAV 06.32**	32			**MMAV 06 L32**	32
with pegs, top entry, high construction			**MMAV 06.40**	40			**MMAV 06 L40**	40

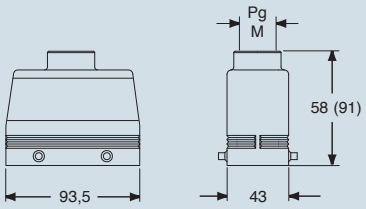
* can only be used with a complete cable gland (to be purchased separately)

dimensions in mm

CMO and **MMO (MMAO)**

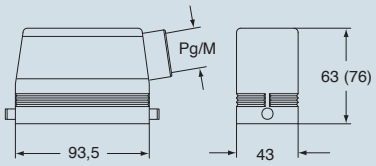


CMV and **MMV (MMAV)**

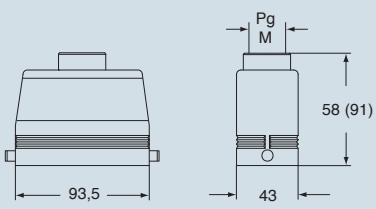


dimensions in mm

CMO L and **MMO L (MMAO L)**



CMV L and **MMV L (MMAV L)**



Type 4/4X/12

IP66 EN 60529 IEC 60529

dimensions shown are not binding
and may be changed without notice

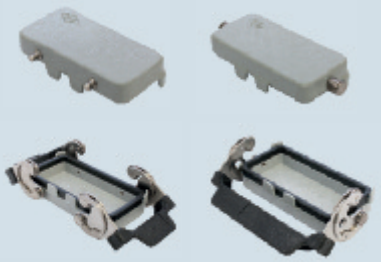
inserts: page:

CME ..... 6+2 (aux) poles + ⏚ 151

insert centre distance:
77,5 x 27 mm

hoods with 2 levers

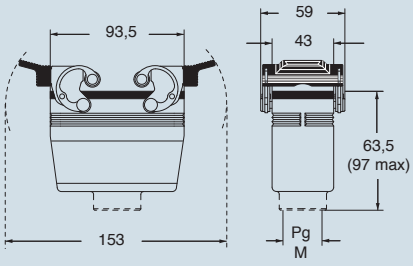
covers



description	part No.	entry Pg	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with levers and gasket, top entry with levers and gasket, top entry, high construction with levers and gasket, top entry, high construction	**CMV 06 G**	21	**MMV 06 G32** **MMAV 06 G25** **MMAV 06 G32**	32 25 32		
with 4 pegs (for enclosures with 2 levers with gasket) with 2 pegs (for enclosures with 1 lever with gasket)					**CHC 16** **CHC 16 L**	
with 2 levers (for hoods with 4 pegs) with 1 lever (for hoods with 2 pegs)						**CHC 16 G** **CHC 16 LG**

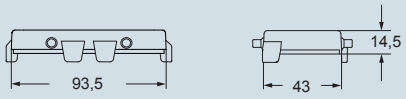
dimensions in mm

CMV G and **MMV G (MMAV G)**

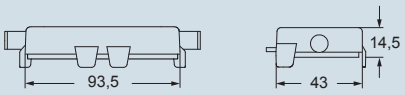


dimensions in mm

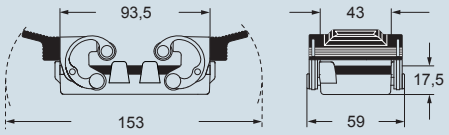
CHC



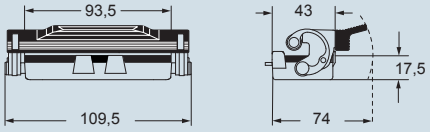
CHC L

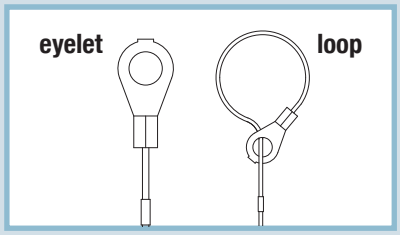


CHC G



CHC LG





Type 4/4X/12

IP66 EN 60529 IEC 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:

CME ..... 10+2 (aux) poles + ⏚ 153
CMCE .....16+2 (aux) poles + ⏚ 158
CME ..... 16+2 (aux) poles + ⏚ 159

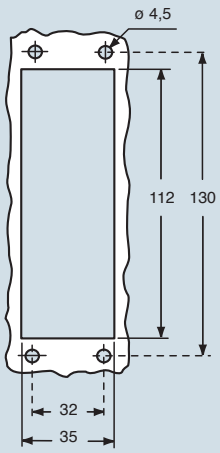
insert centre distance:
104 x 27 mm

bulkhead mounting housings with 2 levers

bulkhead mounting housings with single lever

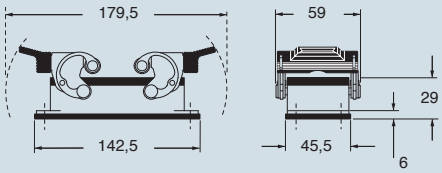
description	part No.	part No.
with one or two levers	**CMI 16**	**CMI 16 L**
with lever and cover		**CMI 16 LS**

panel cut-out for bulkhead mounting housings in mm



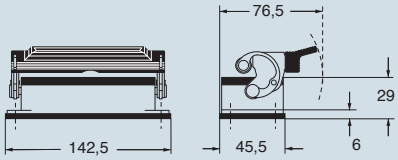
dimensions in mm

CMI

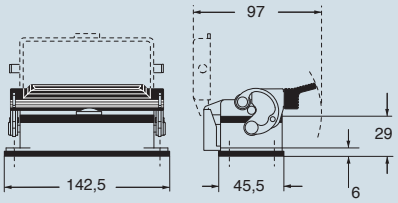


dimensions in mm

CMI L



CMI LS



N.B.:
The enclosures ensure IP66 protection (or IP65 for cover versions) rating when mated and locked with the closing levers.

Type 4/4X/12

IP66 EN 60529 IEC 60529

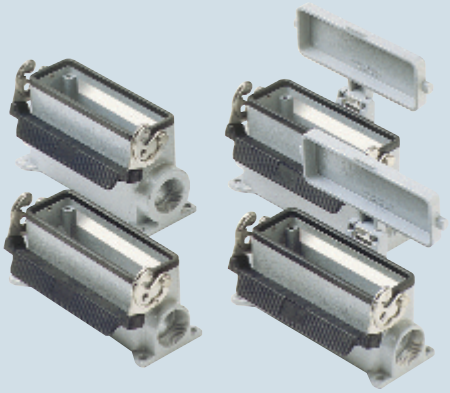
dimensions shown are not binding and may be changed without notice

inserts: page:

insert centre distance:
104 x 27 mm

surface mounting housings with 2 levers

surface mounting housings with single lever

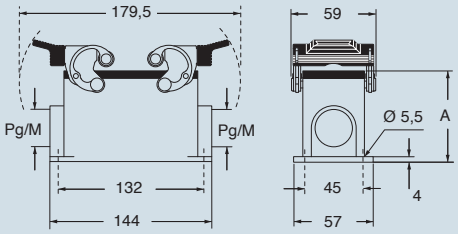


description	part No.	entry Pg	part No.	entry M	part No.	entry Pg	part No.	entry M
with lever/s	**CMP 16**	21	**MMP 16.25**	25	**CMP 16 L**	21	**MMP 16 L25**	25
with lever/s	**CMP 16.2**	21 x 2	**MMP 16.225**	25 x 2	**CMP 16 L2**	21 x 2	**MMP 16 L225**	25 x 2
with lever/s, high construction			**MMAP 16.32**	32			**MMAP 16 L32**	32
with lever/s, high construction			**MMAP 16.232**	32 x 2			**MMAP 16 L232**	32 x 2
with lever/s, high construction			**MMAP 16.40**	40			**MMAP 16 L40**	40
with lever/s, high construction			**MMAP 16.240**	40 x 2			**MMAP 16 L240**	40 x 2
with lever and cover					**CMP 16 LS**	21	**MMP 16 LS25**	25
with lever and cover					**CMP 16 LS2**	21 x 2	**MMP 16 LS225**	25 x 2
with lever and cover, high construction							**MMAP 16 LS32**	32
with lever and cover, high construction							**MMAP 16LS232**	32 x 2
with lever and cover, high construction							**MMAP 16 LS40**	40
with lever and cover, high construction							**MMAP 16LS240**	40 x 2

N.B.:
The enclosures ensure IP66 protection (or IP65 for cover versions) rating when mated and locked with the closing levers.
The cover (CS, CP) only ensures mechanical protection, but does not ensure IP65 protection rating.

dimensions in mm

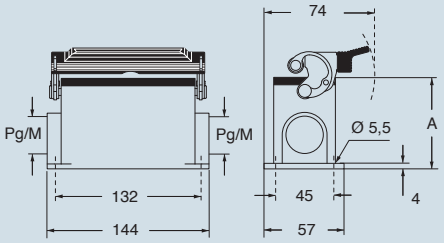
CMP and **MMP - MMAP**



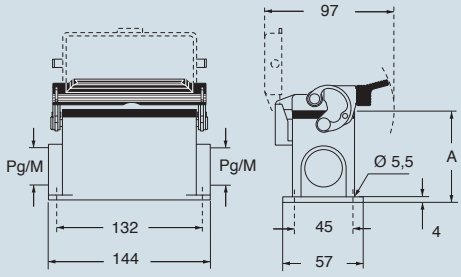
type	A
CMP / MMP	63
MMAP	81

dimensions in mm

CMP L and **MMP L - MMAP L**



CMP LS and **MMP LS - MMAP LS**



type	A
CMP L / MMP L	63
MMAP L	81
CMP LS / MMP LS	63
MMAP LS	81

Type 4/4X/12

IP66 EN 60529 IEC 60529

dimensions shown are not binding
and may be changed without notice

inserts: page:

CME ..... 10+2 (aux) poles + ⏚ 153
CMCE .....16+2 (aux) poles + ⏚ 158
CME ..... 16+2 (aux) poles + ⏚ 159

insert centre distance:
104 x 27 mm

hoods with 4 pegs

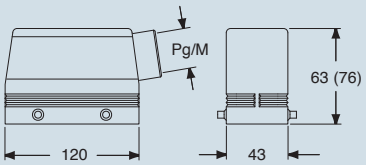
hoods with 2 pegs

description	part No.	entry Pg	part No.	entry M	part No.	entry Pg	part No.	entry M
with pegs, side entry	**CMO 16**	21	**MMO 16.25**	25	**CMO 16 L**	21	**MMO 16 L25**	25
with pegs, side entry			**MMO 16.32**	32			**MMO 16 L32**	32
with pegs, side entry, high construction			**MMAO 16.32**	32			**MMAO 16 L32**	32
with pegs, side entry, high construction			**MMAO 16.40**	40			**MMAO 16 L40**	40
with pegs, top entry	**CMV 16**	21	**MMV 16.25** *	25	**CMV 16 L**	21	**MMV 16 L25**	25
with pegs, top entry			**MMV 16.32**	32			**MMV 16 L32**	32
with pegs, top entry	**CMV 16.29**	29	**MMV 16.40**	40	**CMV 16 L29**	29	**MMV 16 L40**	40
with pegs, top entry, high construction			**MMAV 16.32**	32			**MMAV 16 L32**	32
with pegs, top entry, high construction			**MMAV 16.40**	40			**MMAV 16 L40**	40

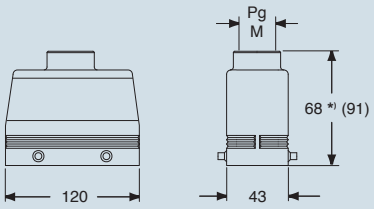
* can only be used with a complete cable gland (to be purchased separately)

dimensions in mm

CMO and **MMO (MMAO)**



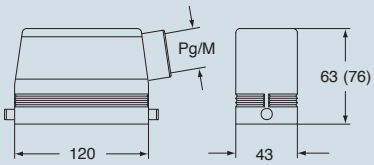
CMV and **MMV (MMAV)**



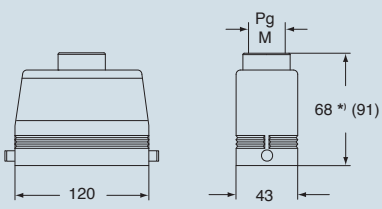
*) 69,5 for Pg 29 - M 40 versions

dimensions in mm

CMO L and **MMO L (MMAO L)**



CMV L and **MMV L (MMAV L)**



*) 69,5 for Pg 29 - M 40 versions

Type 4/4X/12

IP66 EN 60529 IEC 60529

dimensions shown are not binding
and may be changed without notice

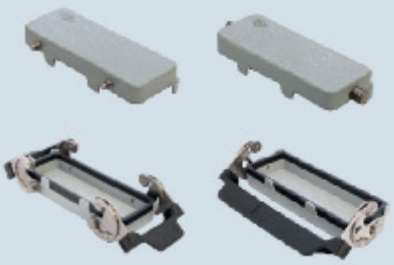
inserts: page:

CME ..... 10+2 (aux) poles + ⏚ 153
CMCE .....16+2 (aux) poles + ⏚ 158
CME ..... 16+2 (aux) poles + ⏚ 159

insert centre distance:
104 x 27 mm

hoods with 2 levers

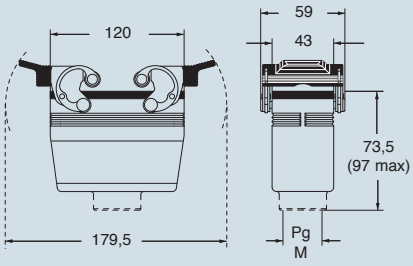
covers



description	part No.	entry Pg	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with levers and gasket, top entry	**CMV 16 G**	21	**MMV 16 G32**	32		
with levers and gasket, top entry, high construction			**MMAV 16 G25**	25		
with levers and gasket, top entry, high construction			**MMAV 16 G32**	32		
with 4 pegs (for enclosures with 2 levers with gasket) with 2 pegs (for enclosures with 1 lever with gasket)					**CHC 24** **CHC 24 L**	
with 2 levers (for hoods with 4 pegs) with 1 lever (for hoods with 2 pegs)						**CHC 24 G** **CHC 24 LG**

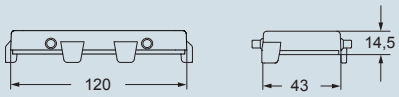
dimensions in mm

CMV G and **MMV G (MMAV G)**

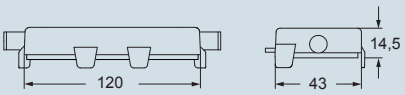


dimensions in mm

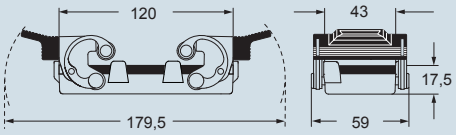
CHC



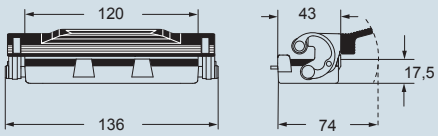
CHC L

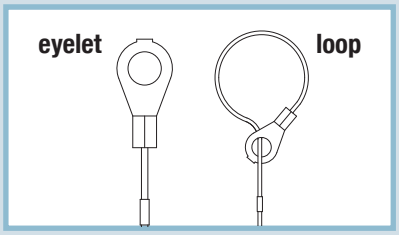


CHC G



CHC LG





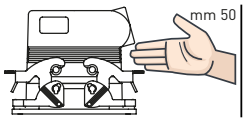
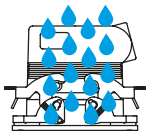
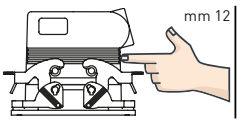
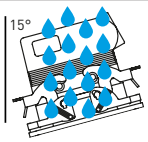
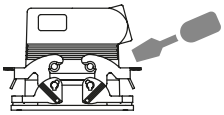
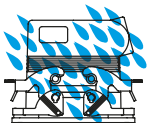
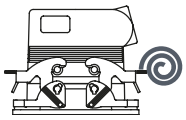
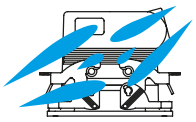
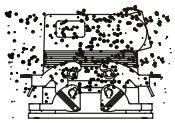
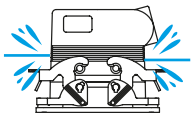
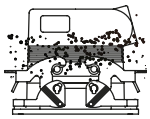
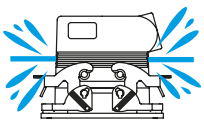
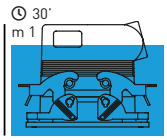
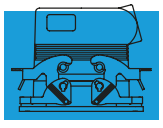
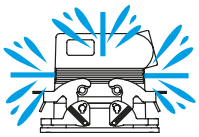
Type 4/4X/12

IP66 EN 60529 IEC 60529

dimensions shown are not binding
and may be changed without notice

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 againstsolid 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)
			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

RATING EXAMPLE

IP 6 5

Description according to IEC 60529

CHANGEOVER FROM PG THREADS TO METRIC

After 31st 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 1st 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 1st 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 1st 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

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

For more information, please refer to the technical catalogue on www.ilme.com