

T-TYPE Gehäuse

Normale und aggressive Umgebungen,
Hygieneanwendungen

**T-TYPE
STANDARD**

für Standard-
anwendungen



Seiten 478 – 487

T-TYPE/W

für aggressive
Umgebungen



Seiten 488 – 492

**HYGIENIC
T-TYPE/H**

für Lebensmittel-
anwendungen

**HYGIENIC
T-TYPE/C**

für Tiefkühl-
anwendungen



Seiten 493 – 509



ECOLAB®

T-TYPE allgemeine Informationen

Internationale Normen

T-TYPE-Gehäuse wurden **erfolgreich** gemäß den folgenden internationalen Normen geprüft, wodurch sie sich für zahlreiche Anwendungen eignen:

- **EN 61984: Steckverbinder – Sicherheitsanforderungen und Prüfungen.**
- **ANSI/UI 50 (Gehäuse für elektrische Ausrüstung).** Die Zulassung wurde nach dem Bestehen verschiedener Prüfungen gemäß ANSI/UL 50 (Enclosures for Electrical Equipment) gleichwertig mit der nordamerikanischen Norm NEMA 250 (NEMA = National Electrical Manufacturers Association) und der entsprechenden kanadischen Norm CSA C22.2 No. 94 (Special Purpose Enclosures) für die in Nordamerika geltenden und von den lokalen Installationsvorschriften verlangten Schutzarten erteilt (z. B. NFPA 70 National Electrical Code in den USA, Anlagennormen CSA in Kanada). Die aktuelle Baumusterzulassung wurde nach Bestehen einer Reihe von Tests gemäß der Norm erteilt, insbesondere: **Type 12 (= NEMA 12)** für Innenanwendungen, ähnlich Schutzart IP54 gemäß IEC/EN 60529. (Nur Standard-T-TYPE-Gehäuse).
- **EN 60529: Schutzart der Gehäuse (IP Code)** IP65, IP66, und IP69 (je nach Ausführung).
- **EN 62262: Schutzart der Gehäuse für elektrische Ausrüstung gegen mechanische Einwirkungen von außen (IK-Code)** für die Klassen IK09 (Gehäuse mit Bügel), IK10 (Gehäuse ohne Bügel).
- **IEC 60068-2-52: Umweltprüfungen – Teil 2-52:** **Salznebel-Prüfung, zyklisch:** mit 5%-iger Salzlösung (NaCl), pH-Wert der Lösung zwischen 6,5 und 7,2; **Umweltbedingungen:** Salznebel 35 °C für 2 Stunden; 40 °C für 168 Stunden bei 93% relativer Feuchte; **ZYKLEN ZAHL:** 4; **PRÜFUNG BESTANDEN:** unter Beibehaltung der IP-Schutzart und mit einem Kontaktwiderstand ≤ 150% des Anfangswertes oder ≤ 5 mΩ

- IEC 60068-2-6: Umweltprüfungen – Teil 2-6:

Schwingungen (sinusförmig): mit Werten von 10 Hz – 500 Hz, 0,35 mm Schwingungsamplitude, 50m/s² (5 gn), Übernahmepunkt 60,1 Hz; **ZYKLEN ZAHL:** 10; **PRÜFUNG BESTANDEN:** Überwachung von 3 Achsen über 2 Stunden, mit einem Kontaktwiderstand ≤ 150% des Anfangswertes oder ≤ 5 mΩ und ohne Mikrounterbrechungen ($\geq 1\mu s$).

- IEC 60068-2-3: Umweltprüfungen – Teil 2-3:

Feuchte Wärme: gleichbleibend bei 40 °C und 93% relativer Feuchte für 504 Stunden; **PRÜFUNG BESTANDEN:** mit einem Kontaktwiderstand ≤ 150% des Anfangswertes oder ≤ 5 mΩ und ohne plötzliche Entladung (Isolationswiderstand > 100 GΩ).

- IEC 60068-2-30: Umweltprüfungen – Teil 2-30:

Feuchte Wärme, zyklisch: 40 °C, 95% relative Feuchte, 12 Stunden bei Umgebungstemperatur; **ZYKLEN ZAHL:** 21; **PRÜFUNG BESTANDEN:** mit einem Kontaktwiderstand ≤ 150% des Anfangswertes oder ≤ 5 mΩ und ohne plötzliche Entladung (Isolationswiderstand > 100 GΩ).

T-TYPE allgemeine Informationen

Resistenz gegenüber aggressiven Medien

A

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Aceton (Dimethylketon)	x	x	x	x
Aktives Chlor	x	x	x	x
Alaun	●	●	●	●
Ammoniak, 10%-ige wässrige Lösung	●	x	●	●
Ammoniak, flüssig	x	x	●	●
Ammoniakazetat	●	x	●	●
Ammoniakkarbonat	●	●	●	x
Ammoniakchlorid	●	●	●	x
Ammoniaknitrat	●	●	●	●
Ammoniakphosphat	●	●	●	●
Ammoniaksulfat	●	●	●	●
Amylalkoho	□	□	□	x
Anilin	□	□	x	x
Asphalt	□	□	□	x
Ätzkali (Kaliumhydroxid) 10%-ig	x	●	●	x

B

Bernsteinsäure (Butandisäure)	●	●	●	●
Bier	●	●	●	●
Benzol	x	□	x	x
Borax	□	□	□	□
Borsäure	●	●	●	●
Borsäure, 10%-ige wässrige Lösung	●	●	●	●
Borwasser (Borsäure 3%)	●	●	●	●
Butan, gasförmig	□	□	□	x
Butan, flüssig	□	□	□	x

D

Deka-Hydro-Naphthalin	x	x	x	x
Diethylhexylphthalat	●	x	x	x
Diisononylphthalat	●	x	x	x
Diocetylphthalat	●	●	x	x
Dieselöl	□	□	□	□

E

Eisenchlorid in 10%-iger wässriger Lösung	x	x	x	x
Erdöläther	□	□	□	□
Essig	x	□	●	□
Ethanol (Ethylalkohol)	x	x	●	●
Ethylalkohol, wässrige Lösung, 10%	●	●	●	●
Ethylenglykol oder Propylenglykol	●	●	●	●

F

Fettsäuren	●	●	●	□
Flüssigseife	x	●	●	●
Formalin (Formaldehyd in 40%-iger wässriger Lösung	x	x	●	●
Fruchtsäfte	●	●	●	●

G

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Gasförmiges Ammoniak	□	x	●	●
Gasförmiges Propan	x	●	●	x
Gelöste Glukose	●	●	●	●
Gelöster Harnstoff	●	●	●	●
Gelöstes Glykol	●	●	●	●
Gelöstes Glyzerin	●	●	●	●
Gelöstes Phenol	□	□	x	x
Glyzerin	●	●	●	●
Gips (siehe Kalziumsulfat)	●	●	x	●

H

Heizöle	□	□	□	x
Heptan	□	□	□	x
Hexan	□	□	□	x

I

IRM-Öl 901	●	●	●	●
IRM-Öl 902	□	●	●	x
IRM-Öl 903	x	□	□	□
Isopropylalkohol	□	●	●	●

K

Kaliumchlorid	●	●	●	●
Kaliumdichromat	□	□	●	●
Kaliumkarbonat	●	●	●	●
Kaliumchlorat	●	●	x	●
Kaliumiodid	□	□	●	●
Kaliumnitrat	□	x	x	●
Kaliumpersulfat	□	□	x	●
Kaliumsulfat	□	□	●	●
Kaliumzyanid, wässrige Lösung	●	●	●	●
Kalziumchlorid	●	●	●	●
Kalziumchlorid, 10%-ige wässrige Lösung	●	●	●	●
Kalziumchlorid, wässrige Suspension	●	●	●	●
Kalziumnitrat	●	●	●	●
Kalziumsulfat	●	●	x	●
Königswasser (1:3 Salpetersäure : Salzsäure)	x	x	x	x
Kresol	□	□	x	x
Kresollösung	□	□	x	x
Küchensalz in wässriger Lösung	●	●	●	●
Kupfersulfat, 10%-ige wässrige Lösung	●	●	●	●

L

Leinöl	●	●	●	●
Lösungen für die Fotoentwicklung	●	●	●	●

Die Klassifizierung in dieser Tabelle stellt lediglich eine allgemeine Referenz dar und soll Ihnen bei der ersten Auswahl eines geeigneten Produkts helfen. Sie basiert auf den Angaben unserer Lieferanten des Rohmaterials, die von diesen Herstellern verwendeten Prüfproben und Prüfbedingungen sind nicht immer identisch und den technischen Entwicklungen entsprechend, weshalb sie nicht in jedem Fall den im Einsatz auftretenden realen Umgebungsbedingungen entsprechen. Deshalb wird

das tatsächliche Verhalten der Produkte im Feld möglicherweise positiv oder negativ abweichen durch zahlreiche variable Einflüsse der tatsächlichen Bedingungen wie Temperatur, Luftfeuchte, gleichzeitiges Auftreten mehrerer Substanzen, der Konzentration der Substanzen, die Einwirkungszeit, usw. Deshalb hat diese Tabelle lediglich indikativen Charakter und begründet keinerlei Gewährleistung oder Haftung durch ILME.

Q ANMERKUNG: Das kennzeichnende Element der Serie T-TYPE/W ist das spezielle Dichtungsmaterial; Gehäuse und Schutzdeckel ohne Dichtungen sind für diese Serie die gleichen wie für T-TYPE Standard.

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Meerwasser	●	●	●	●
Methanol (Methylalkohol)	x	x	●	●
Methylalkohol, verdünnt, 50%	□	□	●	●
Milchsäure	●	●	●	●
Mineralbasierte Öle	●	●	●	●
Mineralöle	●	●	●	●
Motoröl	□	□	□	x
Mottenkugeln (Naphthalin, Paradichlorbenzol)	□	□	x	x

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
n-Butanol (Butylalkohol)	●	●	●	●
Naphthalin	□	●	x	x
Natriumbikarbonat (Oxid)	●	●	●	●
Natriumkarbonat (Waschnatron)	●	●	●	●
Natriumchlorat	●	●	x	●
Natriumchlorid (Küchensalz)	●	●	●	●
Natriumbisulfat, wässrige Lösung	●	●	●	●
Natriumhydroxid (Ätznatron)	x	x	●	●
Natriumhydroxid 12,5% (Seifenlauge)	□	x	●	●
Natriumhypochlorit	x	x	●	●
Natriumnitrat	●	●	●	x
Natriumnitrit	□	□	●	x
Natriumperborat	●	●	●	●
Natriumphosphat	●	●	●	x
Natriumsilikat	●	x	x	●
Natriumsulfat	●	●	●	●
Natriumsulfid	●	●	●	●
Natriumthiosulfat (Fotofixiermittel)	●	●	●	●
Normalbenzin (niedrige Oktanzahl)	□	□	□	x

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Oktan	□	□	□	x
Ölsäure	●	●	●	x
Oxalsäure (Kleesäure)	●	●	●	●
Ozon	x	x	x	□

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Paraffinöl	●	●	●	●
Petroleum	●	●	●	●
Pflanzliches Öl	●	●	●	●

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Quecksilber	●	●	●	●

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Reinigungsbenzin (Trockenreinigung)	□	□	x	x

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Salzsäure, < 2%-ige wässrige Lösung	x	x	●	□
Salzsäure (Chlorwasserstoffsäure), konzentriert	x	x	x	x
Schleiföl	□	□	□	x
Schmieröl	●	●	●	x
Schneidöl	□	□	□	x
Schwefel	●	●	x	x
Schwefeldioxid (schwefeliges Anhydrid)	□	x	x	□
Schwefelsäure, 2%-ige wässrige Lösung	x	x	□	□
Schwefelwasserstoff	□	x	●	x
Silikonöl	●	●	●	x
Seifenlauge	□	●	●	●
Stärke, wässrig (Amylum)	●	●	●	●
Stearinsäure	●	●	●	●

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Talg	●	●	●	●
Teer	□	□	x	□
Tinte	●	●	●	●
Terpentinkonzentrat	x	□	□	x
Toluol	x	x	x	x
Transformatorenöl (dielektrisch)	●	●	●	●
Trichlorethylen	x	x	x	x
Trikresylphosphat	●	●	x	x

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Urin	●	●	●	●

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Wasser	●	●	●	●
Weinsäure	●	●	●	●
Weißer Alkohol (Isopropanol + Ethanol)	□	●	●	●

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Xylool	x	x	x	x

	T-TYPE	T-TYPE/W	T-TYPE/H	T-TYPE/C
Zitronensäure, 50%-ige wässrige Lösung	x	x	●	●
Zyklohexan	□	□	□	x

Legende

● : Beständig □ : Begrenzt beständig x : Nicht beständig

T-TYPE HYGIENIC

New, improved design for smoother locking levers and cleanproof logo



Safety, detectability
and cleaning for food
contamination prevention



Find out more
www.ilme.com



Watch our
technical clip

TECHNICAL FEATURES

The **T-TYPE HYGIENIC** series (T-TYPE /H and T-TYPE /C) enclosures have been **improved** in their design to enhance their cleanability, thus reducing the likeliness of providing seat for dirt.

This has been achieved by a overhaul design of their locking levers, keeping its **sturdiness** and impeccable **locking function**, still made with blue coloured thermoplastic insulating material qualified for contact with food and resistant to the most popular cleaning agents, now also **metal-detectable**, in the remote event - frankly quite unlikely - of loss of parts of said levers in the food.

The **new design** of the T-TYPE HYGIENIC locking levers is characterized by:

- Q a “family air” shared with the new IL-BRID locking levers for standard metallic connector enclosures (see previous pages);
- Q the **smoothening** of any recess;

In addition to the models described in detail in the following pages, all **surface mounting housings with both M cable entries opened** and all **hoods and housings with preassembled CR ... BPE protective earth jumpers** are available. See Table below for all part Nos.

- Q the **remodelling** of any part possibly retaining dirt;
- Q the keeping of utmost **ergonomics**;
- Q the achieving of significant **reduction** in footprint, during movement, particularly on the angles.

Additionally, the ILME-striped logo, signature trait of the T-TYPE series hoods, has become a **smoothed, only slightly high relief and clean proof sign**, guaranteeing an even more cleanable surface compared to the previous bas-relief version.

The ILME logo improvement regards all T-TYPE variants, including the standard type and the T-TYPE /W, all sharing the same hoods.

Part numbers remain unchanged. Zip code will be announced by a dedicated Product Info (also for standard T-TYPE and T-TYPE /W).

			T-TYPE HYGIENIC /H		T-TYPE HYGIENIC Cold /C	
Size	Cable outlet	Locking lever	part No.	part No.*	part No.	part No.*
44.27	-	single	THIH 06 L	THIH 06 LB	THIC 06 L	THIC 06 LB
57.27	-	double	THIH 10	THIH 10 B	THIC 10	THIC 10 B
77.27	-		THIH 16	THIH 16 B	THIC 16	THIC 16 B
104.27	-		THIH 24	THIH 24 B	THIC 24	THIC 24 B
44.27	M25		TAPH 06 L25	TAPH 06 L25B	TAPC 06 L25	TAPC 06L25B
	M32		TAPH 06 L32	TAPH 06 L32B	TAPC 06 L32	TAPC 06L32B
	2xM25		TAPH 06 L225	TAPH06L225B	TAPC 06 L225	TAPC06L225B
	2xM32		TAPH 06 L232	TAPH06L232B	TAPC 06 L232	TAPC06L232B
57.27	M25	single	TAPH 10.25	TAPH 10.25B	TAPC 10.25	TAPC 10.25B
	M32		TAPH 10.32	TAPH 10.32B	TAPC 10.32	TAPC 10.32B
	2xM25		TAPH 10.225	TAPH10.225B	TAPC 10.225	TAPC10.225B
	2xM32		TAPH 10.232	TAPH10.232B	TAPC 10.232	TAPC10.232B
77.27	M32		TAPH 16.32	TAPH 16.32B	TAPC 16.32	TAPC 16.32B
	M40		TAPH 16.40	TAPH 16.40B	TAPC 16.40	TAPC 16.40B
	2xM32		TAPH 16.232	TAPH16.232B	TAPC 16.232	TAPC16.232B
	2xM40		TAPH 16.240	TAPH16.240B	TAPC 16.240	TAPC16.240B
104.27	M32		TAPH 24.32	TAPH 24.32B	TAPC 24.32	TAPC 24.32B
	M40		TAPH 24.40	TAPH 24.40B	TAPC 24.40	TAPC 24.40B
	2xM32		TAPH 24.232	TAPH24.232B	TAPC 24.232	TAPC24.232B
	2xM40		TAPH 24.240	TAPH24.240B	TAPC 24.240	TAPC24.240B
44.27	M25	single	TAVH 06 LG25	TAVH06LG25B	TAVC 06 LG25	TAVC06LG25B
	M32		TAVH 06 LG32	TAVH06LG32B	TAVC 06 LG32	TAVC06LG32B
57.27	M25	double	TAVH 10 G25	TAVH 10G25B	TAVC 10 G25	TAVC 10G25B
	M32		TAVH 10 G32	TAVH 10G32B	TAVC 10 G32	TAVC 10G32B
77.27	M32		TAVH 16 G32	TAVH 16G32B	TAVC 16 G32	TAVC 16G32B
	M40		TAVH 16 G40	TAVH 16G40B	TAVC 16 G40	TAVC 16G40B
104.27	M32		TAVH 24 G32	TAVH 24G32B	TAVC 24 G32	TAVC 24G32B
	M40		TAVH 24 G40	TAVH 24G40B	TAVC 24 G40	TAVC 24G40B

* Enclosures with protective earth jumpers CR...BPE preassembled with part No. of base model plus **letter B** at the end.

			Covers for T-TYPE HYGIENIC	Covers for T-TYPE HYGIENIC Cold
Size	With loop	Locking lever	part No.	part No.
44.27		single	THCH 06 LG	THCC 06 LG
57.27		double	THCH 10 G	THCC 10 G
77.27			THCH 16 G	THCC 16 G
104.27			THCH 24 G	THCC 24 G

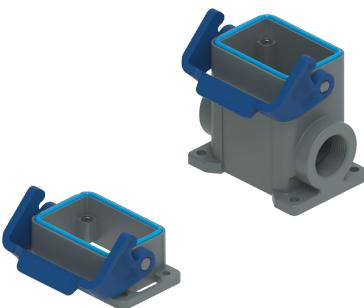
T-TYPE / H for production lines HYGIENIC SERIES

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 (16 A)*	6 poles + ⊕	160
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

* only for standard insulating version THIH

page:

häuser mit einem Hebel
HNBR Dichtung



hoods with 2 pegs



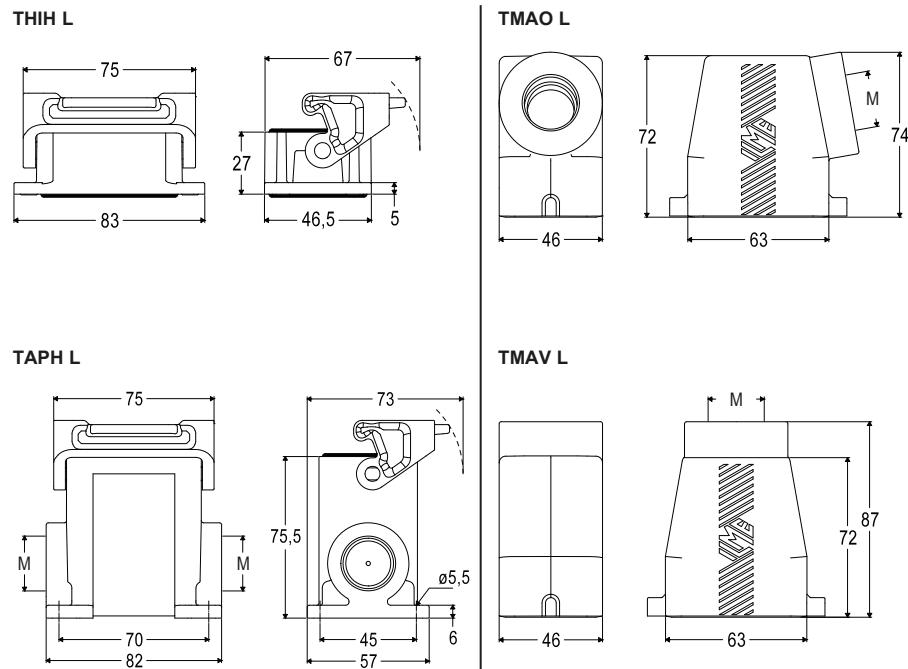
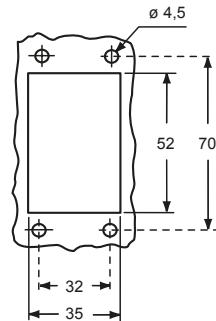
refer to CN.19 pages

FROM JULY 2022

FROM JULY 2022

description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic lever	THIH 06 L			
surface mounting housing with thermoplastic lever, high construction	TAPH 06 L25	25	TMAO 06 L25	25
surface mounting housing with thermoplastic lever, high construction	TAPH 06 L32	32	TMAO 06 L32	32
with pegs, side entry, high construction				
with pegs, side entry, high construction				
with pegs, top entry, high construction			TMAV 06 L25	25
with pegs, top entry, high construction			TMAV 06 L32	32

panel cut-out for bulkhead mounting housings



(*) The surface mounting, high construction housings are supplied with an open threaded entry (*) and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending



ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES

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 (16 A)*	6 poles + ⊕ 160
CQE	10 poles + ⊕ 168
MIXO	2 modules 262 - 317

* only for standard insulating version TCHC

hoods with single lever top entry, HNBR gasket



covers
HNBR gasket



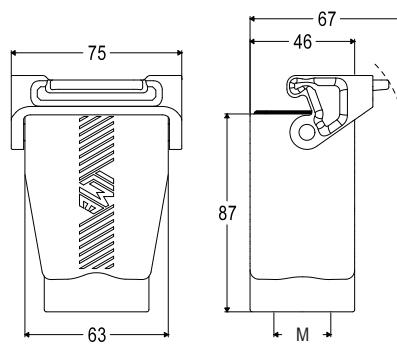
refer to CN.19 pages

FROM JULY 2022

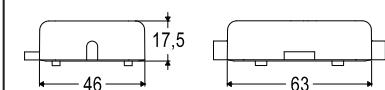
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic lever and gasket, high construction	TAVH 06 LG25	25		
with thermoplastic lever and gasket, high construction	TAVH 06 LG32	32		
with pegs			TCHC 06 L	TCHC 06 SL
with thermoplastic lever and gasket				THCH 06 LG *

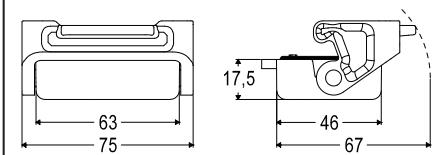
TAVH LG



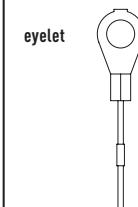
TCHC L (SL)



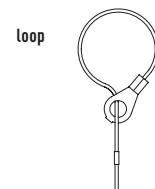
THCH LG



For fixing
on housings



For fixing
on hoods



cURus
Type 12 pending



ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES

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 (16 A)*	10 poles + ⊕ 161
CQE	18 poles + ⊕ 169
CX	8/24 poles + ⊕ 194
MIXO	3 modules 262 - 317

* only for standard insulating version THIH

refer to CN.19 pages

page:
housings with 2 levers
HNBR gasket

FROM JULY 2022

hoods with 4 pegs



FROM JULY 2022

description

part No. entry
Mpart No. entry
M

bulkhead mounting housing with thermoplastic levers

THIH 10

surface mounting housing, thermoplastic levers, high construction

TAPH 10.25 25
TAPH 10.32 32

surface mounting housing, thermoplastic levers, high construction

TMAO 10.25 25
TMAO 10.32 32

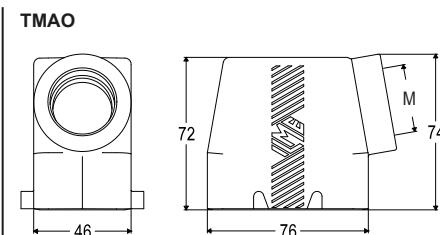
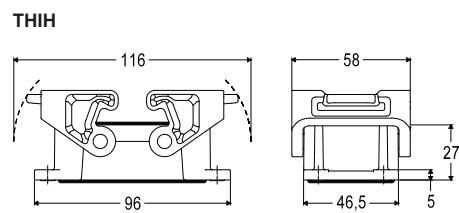
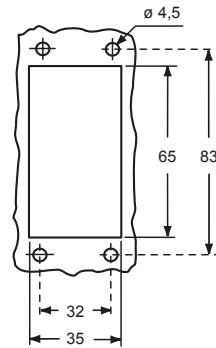
with pegs, side entry, high construction

TMAV 10.25 25
TMAV 10.32 32

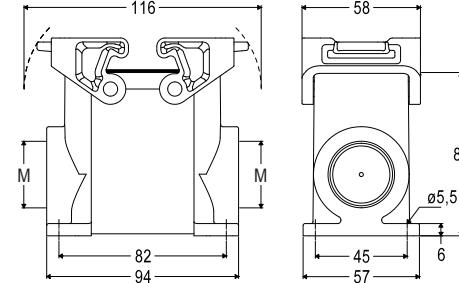
with pegs, top entry, high construction

with pegs, top entry, high construction

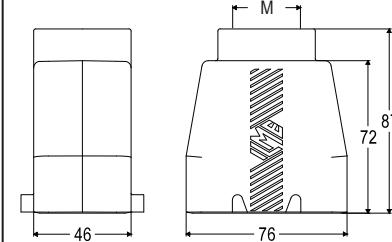
panel cut-out for bulkhead mounting housings



TAPH



TMAV



The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending

ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES

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

* only for standard insulating version TCHC

refer to CN.19 pages

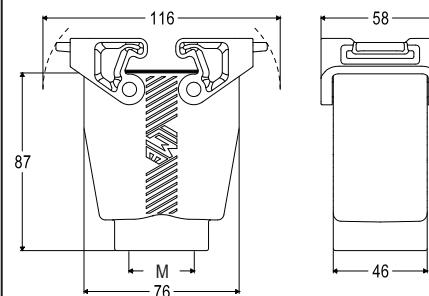
hoods with 2 levers
top entry, HNBR gasketcovers
HNBR gasket

FROM JULY 2022

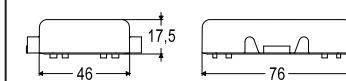
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	TAVH 10 G25	25		
with thermoplastic levers and gasket, high construction	TAVH 10 G32	32		
with 4 pegs			TCHC 10	TCHC 10 S
with 2 thermoplastic levers and gasket				THCH 10 G *

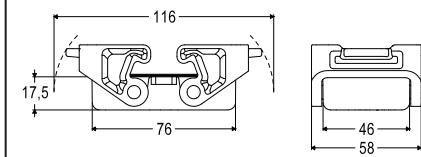
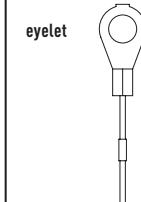
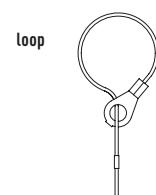
TAVH G



TCHC (S)



THCH G

For fixing
on housingsFor fixing
on hoodscURus
Type 12 pending

ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES

inserts

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

* only for standard insulating version THIH

refer to CN.19 pages

housings with 2 levers
HNBR gasket

FROM JULY 2022

hoods with 4 pegs



FROM JULY 2022

description

part No.

entry
M

part No.

entry
M

bulkhead mounting housing with thermoplastic levers

THIH 16

surface mounting housing, thermoplastic levers, high construction

TAPH 16.32 32
TAPH 16.40 40

surface mounting housing, thermoplastic levers, high construction

TMAO 16.32 32
TMAO 16.40 40

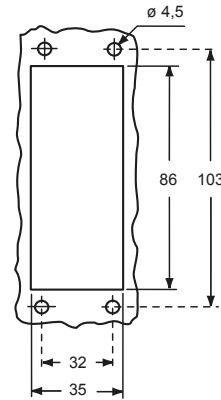
with pegs, side entry, high construction

TMAV 16.32 32
TMAV 16.40 40

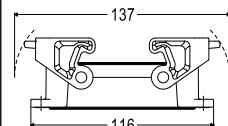
with pegs, top entry, high construction

with pegs, top entry, high construction

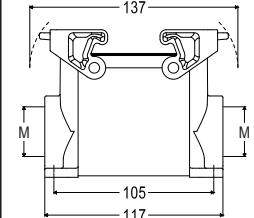
panel cut-out for bulkhead mounting housings



THIH

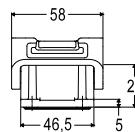


TAPH

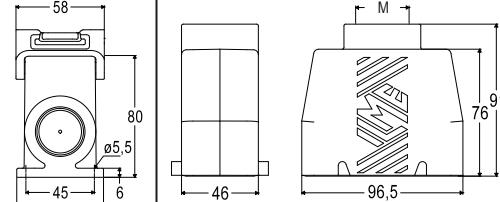


The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

TMAO



TMAV

cURus
Type 12 pending

ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES

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, CTSE (16 A)*	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

* only for standard insulating version TCHc

refer to CN.19 pages

hoods with 2 levers
top entry, HNBR gasketcovers
HNBR gasket

FROM JULY 2022

FROM JULY 2022*

description

part No. entry
Mpart No.
(with eyelet)part No.
(with loop)

with thermoplastic levers and gasket, high construction

TAVH 16 G32 32

TCHC 16

TCHC 16 S

with thermoplastic levers and gasket, high construction

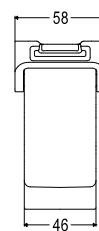
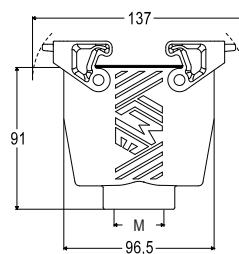
TAVH 16 G40 40

THCH 16 G *

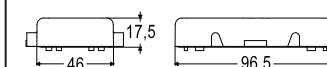
with 4 pegs

with 2 thermoplastic levers and gasket

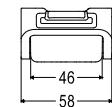
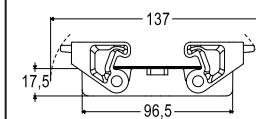
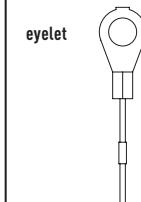
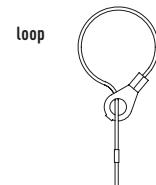
TAVH G



TCHC (S)



THCH G

For fixing
on housingsFor fixing
on hoodscURus
Type 12 pending

ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES**inserts**

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, CTSE (16 A)*	24 poles + ⊕	163
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

* only for standard insulating version THIH

page:**häuser mit 2 Hebeln
HNBR Dichtung****FROM JULY 2022****hoods with 4 pegs****FROM JULY 2022****refer to CN.19 pages****description****part No.****entry
M****part No.****entry
M**

bulkhead mounting housing with thermoplastic levers

THIH 24

surface mounting housing, thermoplastic levers, high construction

TAPH 24.32 32
TAPH 24.40 40

surface mounting housing, thermoplastic levers, high construction

TMAO 24.32 32

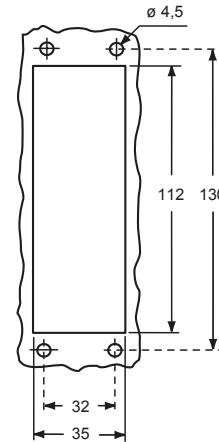
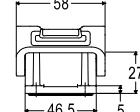
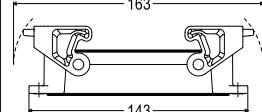
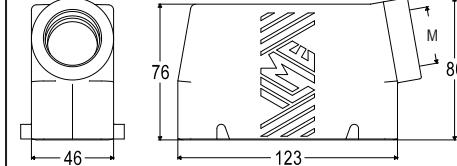
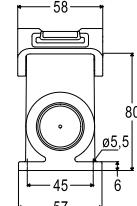
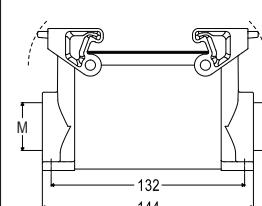
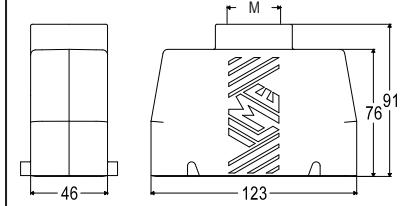
with pegs, side entry, high construction

TMAO 24.40 40

with pegs, top entry, high construction

TMAV 24.32 32

with pegs, top entry, high construction

TMAV 24.40 40**panel cut-out for bulkhead mounting housings****THIH****TMAO****TAPH****TMAV**

The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending

ambient temperature limits -40 °C / +70 °C

T-TYPE / H for production lines HYGIENIC SERIES

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, CTSE (16 A)*	24 poles + ⊕	163
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

* only for standard insulating version TCHC

refer to CN.19 pages

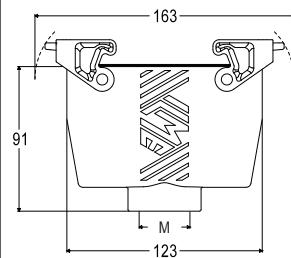
hoods with 2 levers
top entry, HNBR gasketcovers
HNBR gasket

FROM JULY 2022

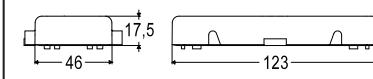
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	TAVH 24 G32	32		
with thermoplastic levers and gasket, high construction	TAVH 24 G40	40		
with 4 pegs			TCHC 24	TCHC 24 S
with 2 thermoplastic levers and gasket				THCH 24 G *

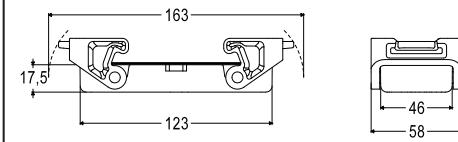
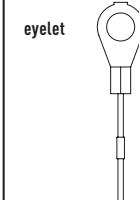
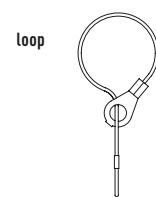
TAVH G



TCHC (S)



THCH G

For fixing
on housingsFor fixing
on hoodscURus
Type 12 pending

ambient temperature limits -40 °C / +70 °C

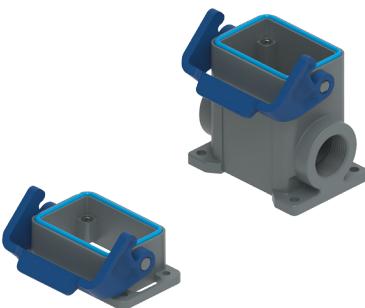
T-TYPE / C for low-temperature HYGIENIC SERIES

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 (16 A)*	6 poles + ⊕	160
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

* only for standard insulating version THIH

page:

häuser mit 2 Hebeln
SILICONE Dichtung



hoods with 4 pegs

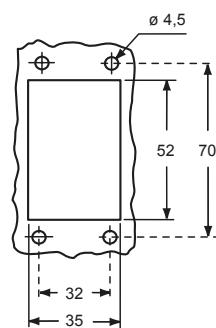


refer to CN.19 pages

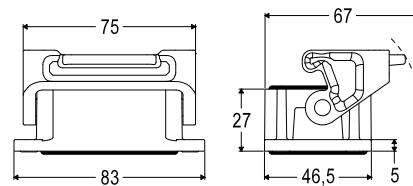
FROM JULY 2022

FROM JULY 2022

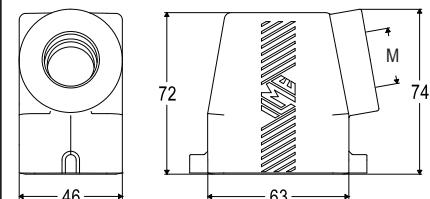
description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic lever	THIC 06 L			
surface mounting housing with thermoplastic lever, high construction	TAPC 06 L25	25	TMAO 06 L25	25
surface mounting housing with thermoplastic lever, high construction	TAPC 06 L32	32	TMAO 06 L32	32
with pegs, side entry, high construction				
with pegs, side entry, high construction			TMAO 06 L25	25
with pegs, top entry, high construction			TMAO 06 L32	32
with pegs, top entry, high construction			TMAV 06 L25	25
panel cut-out for bulkhead mounting housings			TMAV 06 L32	32



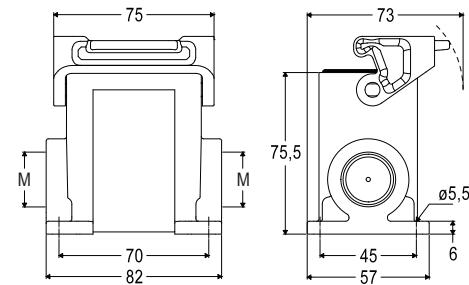
THIC L



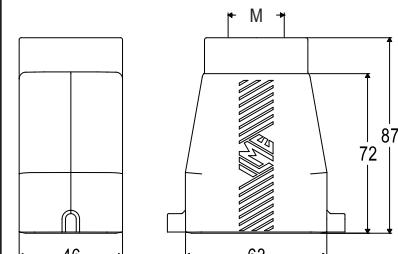
TMAO L



TAPC L



TMAV L



(*) The surface mounting, high construction housings are supplied with an open threaded entry (*) and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending



ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

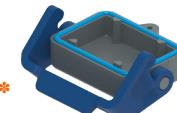
inserts	page:
CDD	24 poles + ⊕ 76
CDS	9 poles + ⊕ -
CDSH	9 poles + ⊕ 86
CDSH NC	6 poles + ⊕ 95
CNE	6 poles + ⊕ 110
CSE	6 poles + ⊕ -
CSH	6 poles + ⊕ 110
CSH S	6 poles + ⊕ 122
CCE	6 poles + ⊕ 130
CSS	6 poles + ⊕ 148
CT, CTSE (16 A)*	6 poles + ⊕ 160
CQE	10 poles + ⊕ 168
MIXO	2 modules 262 - 317

* only for standard insulating version TCHC

hoods with 2 levers, top entry
SILICONE gasket



covers
SILICONE gasket



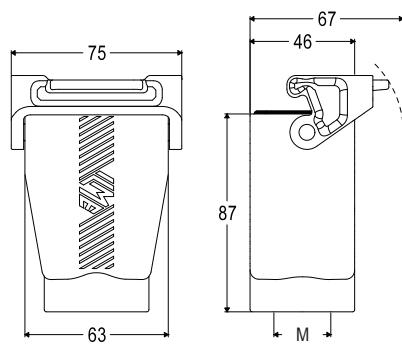
refer to CN.19 pages

FROM JULY 2022

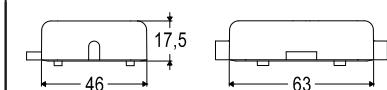
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic lever and gasket, high construction	TAVC 06 LG25	25		
with thermoplastic lever and gasket, high construction	TAVC 06 LG32	32		
with pegs			TCHC 06 L	TCHC 06 SL
with thermoplastic lever and gasket				THCC 06 LG *

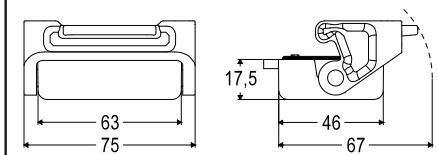
TAVC LG



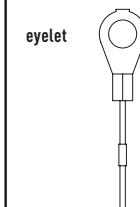
TCHC L (SL)



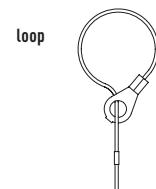
THCC LG



For fixing
on housings



For fixing
on hoods



cURus
Type 12 pending



ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

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 (16 A)*	10 poles + ⊕ 161
CQE	18 poles + ⊕ 169
CX	8/24 poles + ⊕ 194
MIXO	3 modules 262 - 317

* only for standard insulating version THIH

refer to CN.19 pages

page:
housings with 2 levers
SILICONE gasket

FROM JULY 2022

hoods with 4 pegs



FROM JULY 2022

description

part No.

entry
M

part No.

entry
M

bulkhead mounting housing with thermoplastic levers

THIC 10

surface mounting housing, thermoplastic levers, high construction

TAPC 10.25 25

surface mounting housing, thermoplastic levers, high construction

TAPC 10.32 32

with pegs, side entry, high construction

TMAO 10.25 25

with pegs, side entry, high construction

TMAO 10.32 32

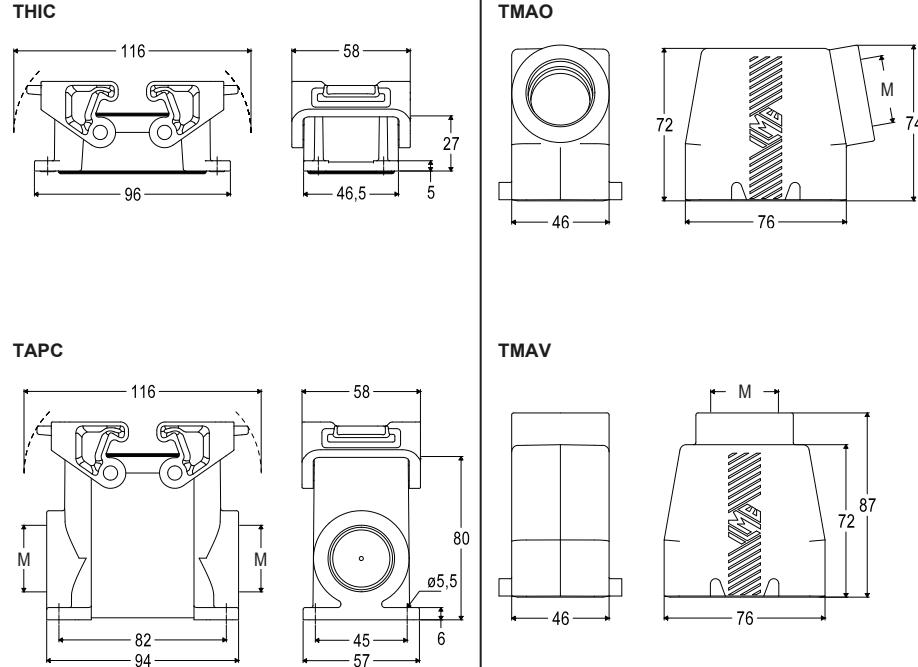
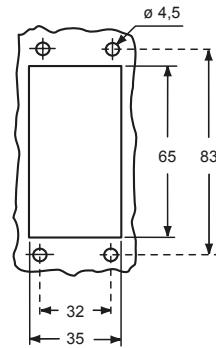
with pegs, top entry, high construction

TMAV 10.25 25

with pegs, top entry, high construction

TMAV 10.32 32

panel cut-out for bulkhead mounting housings



The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending

ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

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 (16 A)*	10 poles + ⊕	161
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

* only for standard insulating version TCHC

refer to CN.19 pages

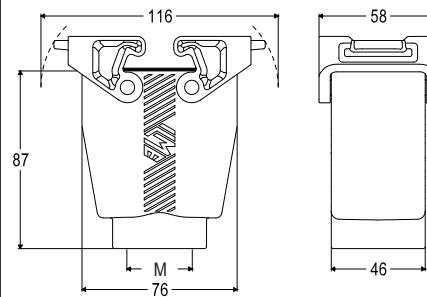
hoods with 2 levers, top entry
SILICONE gasketcovers
SILICONE gasket

FROM JULY 2022

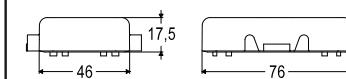
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	TAVC 10 G25	25		
with thermoplastic levers and gasket, high construction	TAVC 10 G32	32		
with 4 pegs			TCHC 10	TCHC 10 S
with 2 thermoplastic levers and gasket				THCC 10 G *

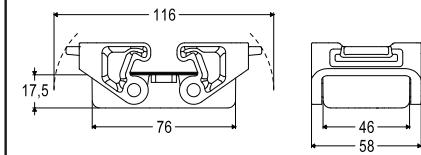
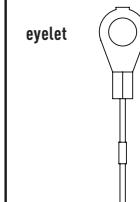
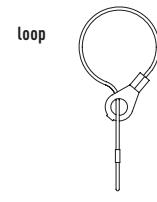
TAVC G



TCHC (S)



THCC G

For fixing
on housingsFor fixing
on hoodscURus
Type 12 pending

ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

inserts

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

* only for standard insulating version THIH

refer to CN.19 pages

housings with 2 levers
SILICONE gasket

FROM JULY 2022

hoods with 4 pegs



FROM JULY 2022

description

part No.

entry
M

part No.

entry
M

bulkhead mounting housing with thermoplastic levers

THIC 16

surface mounting housing, thermoplastic levers, high construction

TAPC 16.32

32

surface mounting housing, thermoplastic levers, high construction

TAPC 16.40

40

with pegs, side entry, high construction

TMAO 16.32

32

with pegs, side entry, high construction

TMAO 16.40

40

with pegs, top entry, high construction

TMAV 16.32

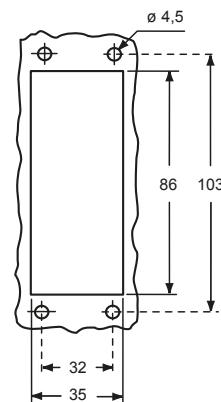
32

with pegs, top entry, high construction

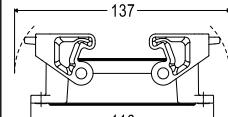
TMAV 16.40

40

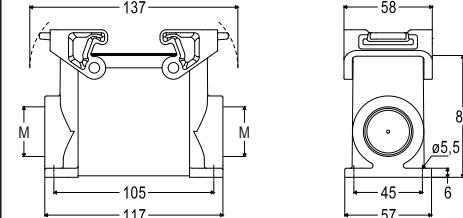
panel cut-out for bulkhead mounting housings



THIC

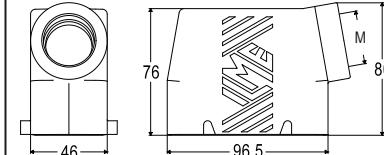


TAPC

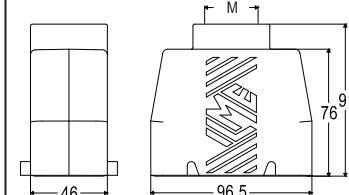


The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

TMAO



TMAV

cURus
Type 12 pending

ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

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, CTSE (16 A)*	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

* only for standard insulating version THCH

refer to CN.19 pages

hoods with 2 levers, top entry
SILICONE gasket

FROM JULY 2022

covers
SILICONE gasket

FROM JULY 2022*

description

part No.

entry
Mpart No.
(with eyelet)part No.
(with loop)

with thermoplastic levers and gasket, high construction

TAVC 16 G32 32
TAVC 16 G40 40

TCHC 16

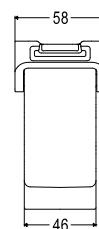
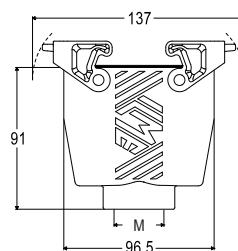
TCHC 16 S

with 4 pegs

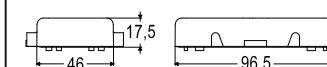
with 2 thermoplastic levers and gasket

THCC 16 G *

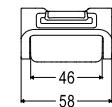
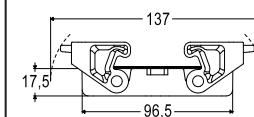
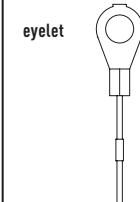
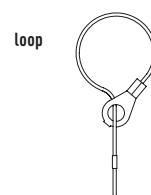
TAVC G



TCHC (S)



THCC G

For fixing
on housingsFor fixing
on hoodscURus
Type 12 pending

ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

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, CTSE (16 A)*	24 poles + ⊕ 163
CQE	46 poles + ⊕ 171
CQEE	64 poles + ⊕ 177
CX	4/8 and 6/6 poles + ⊕ 204, 206
MIXO	6 modules 262 - 317

* only for standard insulating version THIH

refer to CN.19 pages

housings with 2 levers
SILICONE gasket

FROM JULY 2022

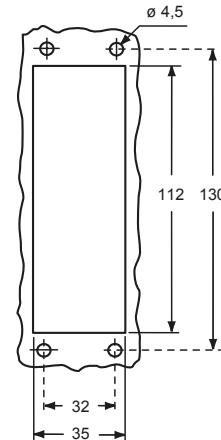
hoods with 4 pegs



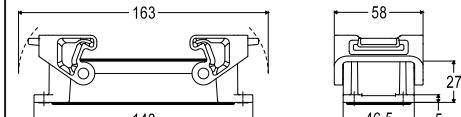
FROM JULY 2022

description	part No.	entry	part No.	entry
bulkhead mounting housing with thermoplastic levers	THIC 24			
surface mounting housing, thermoplastic levers, high construction	TAPC 24.32	32		
surface mounting housing, thermoplastic levers, high construction	TAPC 24.40	40		
with pegs, side entry, high construction			TMAO 24.32	32
with pegs, side entry, high construction			TMAO 24.40	40
with pegs, top entry, high construction			TMAV 24.32	32
with pegs, top entry, high construction			TMAV 24.40	40

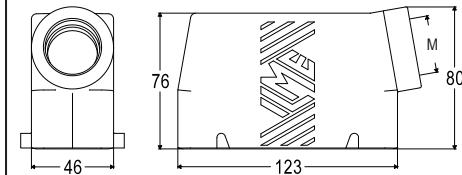
panel cut-out for bulkhead mounting housings



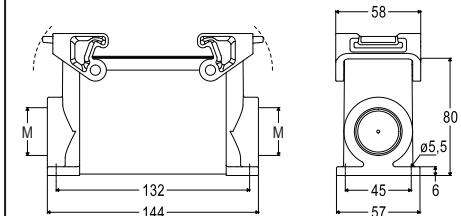
THIC



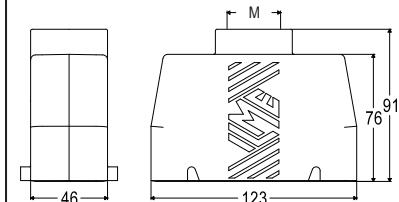
TMAO



TAPC



TMAV



The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

cURus
Type 12 pending

ambient temperature limits -50 °C / +70 °C

T-TYPE / C for low-temperature HYGIENIC SERIES

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, CTSE (16 A)*	24 poles + ⊕	163
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

* only for standard insulating version TCHC

refer to CN.19 pages

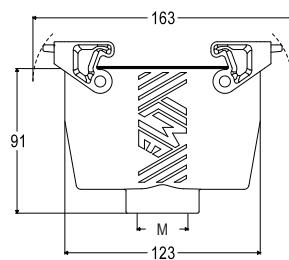
hoods with 2 levers, top entry
SILICONE gasketcovers
SILICONE gasket

FROM JULY 2022

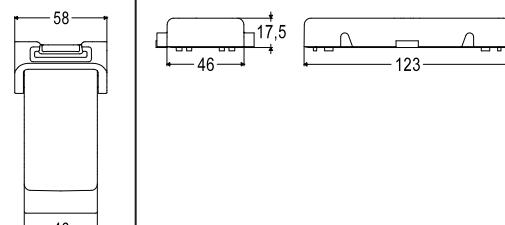
FROM JULY 2022*

description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction				
with thermoplastic levers and gasket, high construction	TAVC 24 G32	32		
with 4 pegs	TAVC 24 G40	40		
with 2 thermoplastic levers and gasket			TCHC 24	TCHC 24 S
				THCC 24 G *

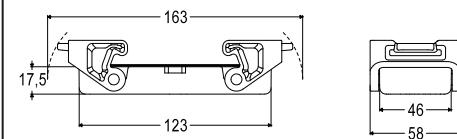
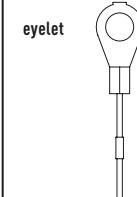
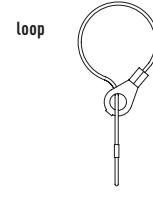
TAVC G



TCHC (S)



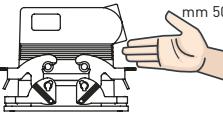
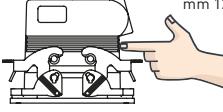
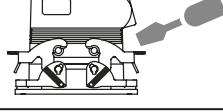
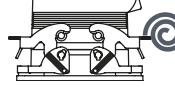
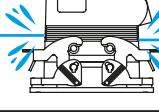
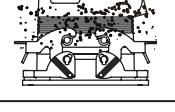
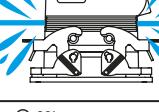
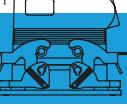
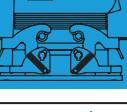
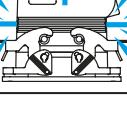
THCC G

For fixing
on housingsFor fixing
on hoodscURus
Type 12 pending

ambient temperature limits -50 °C / +70 °C

DIE SCHUTZARTEN

Gehäuse, Dichtungs- und Verriegelungsmechanismus des Steckverbinder schützen die Verbindung vor äußeren Einflüssen wie mechanischen Erschütterungen, Fremdkörpern, Feuchtigkeit, Staub, Wasser oder anderen Flüssigkeiten wie Reinigungs- und Kühlmitteln, Ölen usw. Die Schutzart des Gehäuses wird in den Normen IEC 60529 und DIN EN 60529, erläutert, die Gehäuse nach Fremdkörper- und Wasserschutz kategorisieren. Die folgende Tabelle zeigt den **Leitfaden für die Einstufung von IP (Ingress Protection)-Schutzarten**.

ERSTE Kennziffer	Schutzart FREMDKÖRPER	ZWEITE Kennziffer	Schutzart WASSER
0		0	kein Schutz
1	 Geschützt gegen feste Fremdkörper mit einem Durchmesser ab 50 mm (z. B. Zugang mit der Hand)	1	 Schutz gegen senkrecht fallendes Tropfwasser
2	 Geschützt gegen feste Fremdkörper mit einem Durchmesser ab 12,5 mm (z. B. Zugang mit einem Finger)	2	 Schutz gegen fallendes Tropfwasser, wenn das Gehäuse bis zu 15° geneigt ist
3	 Geschützt gegen feste Fremdkörper mit einem Durchmesser ab 2,5 mm (z. B. Zugang mit Werkzeug oder Drähten)	3	 Schutz gegen fallendes Sprühwasser bis 60° gegen die Senkrechte
4	 Geschützt gegen feste Fremdkörper mit einem Durchmesser ab 1,0 mm (z. B. Zugang mit kleinem Werkzeug oder feinen Drähten)	4	 Schutz gegen allseitiges Spritzwasser
5	 Staubgeschützt (keine schädigende Ablagerung)	5	 Schutz gegen Strahlwasser (Düse) aus beliebigem Winkel
6	 Vollständig staubdicht	6	 Schutz gegen starkes Strahlwasser (ähn. Meereswellen)
BEISPIEL		IP 6 5	 Schutz gegen zeitweiliges Untertauchen in einer Tiefe bis zu max. 1 Meter für 30 min
		7	 Schutz gegen andauerndes Untertauchen in Dauer und Tiefe > Schutzart IPX7
		8	 Schutz gegen heißes Hochdruck-Strahlwasser aus allen Richtungen
		9	

Beschreibung gemäß IEC 60529

ÜBERGANG VON PG-GEWINDEN ZU METRISCHEN M-GEWINDEN

Zum Stichtag 31. Dezember 1999 wurde die deutsche Richtlinie DIN VDE 0619 (1987-09) und die hierin enthaltenen Normen – DIN 46319 (Norm zu metrischen Gewinden), DIN 46320 (T1 – T4) sowie DIN 46255 und DIN 46259 (Bestimmungen zu den sog. "Pg" = Panzerrohrgewinden) zurückgezogen und durch die neue Europäische Norm EN 50262 „Metrische Verschraubungen für Elektroanlagen“ abgelöst.

Diese Norm legt den Schnitt der metrischen Gewinde für Verschraubungen (Norm 60423) sowie die entsprechenden Vorschriften zur Betriebssicherheit und zum Unfallschutz fest, macht jedoch im Gegensatz zu den aufgehobenen DIN-Normen für Pg-Verschraubungen keine Vorgaben hinsichtlich z. B. der Größe der Schlüsselweite, der Abmessungsdiagonale oder der Abmessungen der Dichtungen.

Die Norm trat mit der Aufhebung der anders lautenden nationalen Normen am 1. April 2001 definitiv in Kraft.

Sie gilt in allen Mitgliedsstaaten der CENELEC (Europäischer Ausschuss für Normierungen zu elektrischen Einrichtungen) und legt fest, dass das Angebot an mehrpoligen Steckverbindern für den industriellen Einsatz um neue Gehäuseversionen mit Kabelausgängen für metrische Gewinde erweitert werden muss.

HINWEIS – In 2016 löste die neue EN 62444:2013 „Kabelverschraubungen für elektrische Installationen“ den alten Standard ab. Enthalten sind nun metrische Gewindegrößen von M6 bis M110 (vorher bis M75).

Die Hersteller von Verschraubungen haben somit neben den Baureihen mit Pg-Gewinden, Ausführungen mit metrischen Gewinden auf den Markt gebracht, die die alten Pg-Verschraubungen schrittweise ersetzen sollen. Der in der Norm angegebene Übergangszeitraum sollte am 1. März 2001 enden. Damit sollte der Einsatz von Pg-Komponenten und somit Gehäusen mit Pg-Gewinden zu diesem Zeitpunkt bei allen neuen Anlagen eingestellt werden. Dennoch können Gehäuse mit Pg-Kabelausgang oder Verschraubungen mit Pg-Gewinden nach wie vor als Ersatzteile verwendet werden. Hinsichtlich der **CE**-Kennzeichnung dieser Komponenten ist die Tatsache ausreichend, dass sie der Niederspannungsrichtlinie entsprechen, jedoch setzt die Einhaltung der Sicherheitsanforderungen der EN 62444 eine anzunehmende Konformität voraus.

☞ Um die beiden Gehäusetypen anhand der Artikelnummern unterscheiden zu können, beginnen bei ILME die Codes der metrischen Versionen mit einem "M" und die der Pg-Ausführungen mit einem "C". Die nachstehende Tabelle zeigt die von ILME angewandte Umschlüsselung der geläufigsten, metrischen- und Pg-Gewindegrößen:

Pg	Metrisch
Pg 11	M20
Pg 13,5	M20
Pg 16	M20
Pg 21	M25
Pg 29	M32
Pg 36	M40
Pg 42	M50

Ø in mm	Metrisches Gewinde				
	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	—	—

(Weitere Informationen finden Sie in unserem Katalog für Kabelverschraubungen auf www.ilme.de)