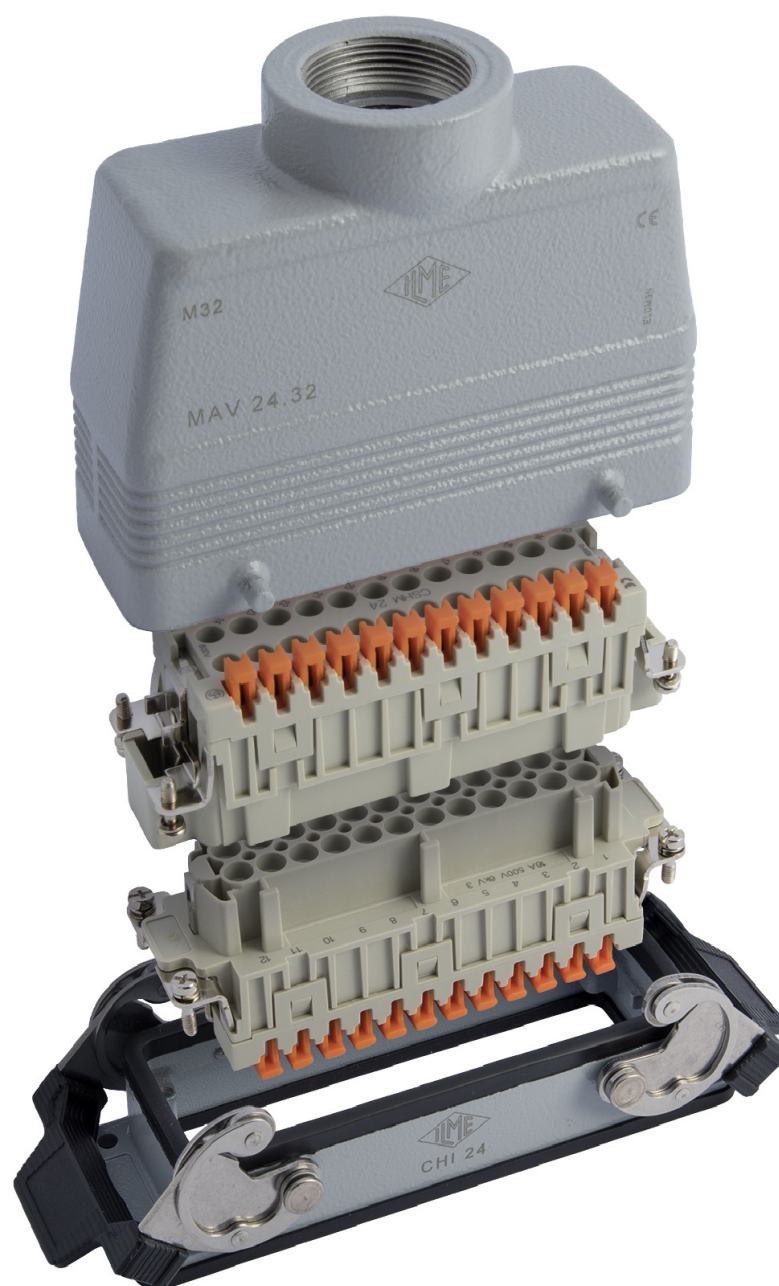




Choose **CLASS**

for **heavy-duty** applications



CLASS connectors are used in connections for **electrical and electronic equipment**, machines, control units, electric panels, control equipment and where a safe sectionable connection is required.

They can be used in **aggressive industrial environments** and wherever there is a need for **heavy-duty applications**.





The CLASS series consists of **inserts** manufactured in type-approved thermoplastic resin UL 94V-0 and **silver or gold plated contacts**. Coupling with **metallic enclosures, complete with locking levers in reinforced thermoplastic or stainless steel**, makes the connection effective and robust.

The wide range of inserts offered with their **different wire connecting techniques** (**SQUICH®**, screw, crimp or spring) guarantees flexibility of use and numerous choices.

CLASS Series

Full data sheets available at www.ilme.com

Inserts

<p>CK - CKS - CKSH Type of connection: - screw terminal 10A - 250V - spring 10A - 400V - SQUICH® 10A - 400V</p> 	<p>CQ Type of connection: - crimp 10A/16A/40A</p> 	<p>CT - CTS Type of connection: - screw terminal 10A - 250V - spring 10A - 250V</p> 
<p>CDA - CDC - CSAH Type of connection: - screw terminal 16A - 250V - crimp 16A - 250V - SQUICH® 16A - 250V</p> 	<p>CD Type of connection: - crimp 10A - 250V 10A - 50V</p> 	<p>CDD Type of connection: - crimp 10A - 250V</p> 
<p>CSH-SQUICH® Type of connection: - SQUICH® 16A - 500V</p> 	<p>CNE - CSE - CCE - screw terminal 16A - 500V - spring 16A - 500V - crimp 16A - 500V</p> 	<p>CQE Type of connection: - crimp 16A - 500V</p> 
<p>CDSH-SQUICH® Type of connection: - SQUICH® 10A - 400V</p> 	<p>CSS Type of connection: - spring 16A - 500V dual terminal</p> 	<p>CT - CTSE Type of connection: - screw terminal 16A - 400/500V - spring 16A - 400/500V</p> 
<p>CMCE - CME - CMSH Type of connection: - crimp 16A - 830V - screw terminal 16A - 830V - SQUICH® 16A - 830V</p> 	<p>CP Type of connection: - screw terminal 35A - 400/690V</p> 	<p>CX - MIXED INSERTS Type of connection: - crimp 10A/16A/40A</p> 
<p>CX Type of connection: - screw terminal 16A/80A</p> 	<p>MIXO Type of connection: - crimp 200A/100A/70A 40A/16A/10A/5A</p> 	<p>MIXO Type of connection: - screw terminal 40A</p> 
<p>MIXO Type of connection: - spring 16A</p> 	<p>MIXO Type of connection: Data RJ45-USB-POF-BUS-COAX</p> 	<p>MIXO Type of connection: Pneumatic</p> 

CHOOSE YOUR CONNECTOR

First, select the inserts...

Rated current	Rated voltage	No of poles [⊕]	Section of conductors (mm ²)	Type of connection	Resistance of contacts (mΩ)	Certifications	CLASS Inserts				Dimensions of inserts/enclosures
							Male		Female		
10A	50V	8 NO [⊕]	0,14 - 2,5	①	3	UL, EAC, CQC	CDM 08		CDF 08		● 21.21
10A	250V	3 and 4	0,75 - 2,5	②	1	UL, EAC, CQC	CKM 03	CKM 04	CKF 03	CKF 04	● 21.21
10A	400V	3 and 4	0,14 - 2,5	③	1	cUL, EAC, CQC	CKSM 03	CKSM 04	CKSF 03	CKSF 04	● 21.21
10A	400V	3 and 4	0,14 - 2,5	④	1	-	CKSHM 03	CKSHM 04	CKSHF 03	CKSHF 04	● 21.21
10A	250V	7	0,14 - 2,5	①	3	UL, EAC, CQC	CDM 07		CDF 07		● 21.21
10A	250V	15	0,14 - 2,5	①	3	UL, EAC, CQC	CDM 15		CDF 15		● 49.16
10A	250V	24	0,14 - 2,5	①	3	UL, EAC, CQC	CDDM 24		CDDF 24		● 44.27
10A	250V	25	0,14 - 2,5	①	3	UL, EAC, CQC	CDM 25		CDF 25		● 66.16
10A	250V	38	0,14 - 2,5	①	3	UL, EAC, CQC	CDDM 38		CDDF 38		● 66.16
10A	250V	40	0,14 - 2,5	①	3	UL, EAC, CQC	CDM 40		CDF 40		● 77.27
10A	250V	42	0,14 - 2,5	①	3	UL, EAC, CQC	CDDM 42		CDDF 42		● 57.27
10A	250V	50	0,14 - 2,5	①	3	UL, EAC, CQC	CDM 25 + CDM 25 Z		CDF 25 + CDF 25 Z		● 66.40
10A	250V	64	0,14 - 2,5	①	3	UL, EAC, CQC	CDM 64		CDF 64		● 104.27
10A	250V	72	0,14 - 2,5	①	3	UL, EAC, CQC	CDDM 72		CDDF 72		● 77.27
10A	250V	80	0,14 - 2,5	①	3	UL, EAC, CQC	CDM 40 + CDM 40		CDF 40 + CDF 40		● 77.62
10A	250V	108	0,14 - 2,5	①	3	UL, EAC, CQC	CDDM 108		CDDF 108		● 104.27
10A	250V	128	0,14 - 2,5	①	3	UL, EAC, CQC	CDM 64 + CDM 64		CDF 64 + CDF 64		● 104.62
10A	250V	144	0,14 - 2,5	①	3	UL, EAC, CQC	CDDM 72 + CDDM 72 N		CDDF 72 + CDDF 72 N		● 77.62
10A	250V	216	0,14 - 2,5	①	3	UL, EAC, CQC	CDDM 108 + CDDM 108 N		CDDF 108 + CDDF 108 N		● 104.62
10A	400V	9	0,14 - 2,5	④	1	-	CDSHM 09		CDSHF 09		● 44.27
10A	400V	18	0,14 - 2,5	④	1	-	CDSHM 18		CDSHF 18		● 57.27
10A	400V	27	0,14 - 2,5	④	1	-	CDSHM 27		CDSHF 27		● 77.27
10A	400V	42	0,14 - 2,5	④	1	-	CDSHM 42		CDSHF 42		● 104.27
10A	400V	54	0,14 - 2,5	④	1	-	CDSHM 27 + CDSHM 27 N		CDSHF 27 + CDSHF 27 N		● 77.62
10A	400V	84	0,14 - 2,5	④	1	-	CDSHM 42 + CDSHM 42 N		CDSHF 42 + CDSHF 42 N		● 104.62
16A	500V	6	0,5 - 4,0	②	1	UL, EAC, CQC	CNEM 06 T		CNEF 06 T		● 44.27
16A	500V	6	0,14 - 2,5	④	3	UL, EAC, CQC	CSHM 06		CSHF 06		● 44.27
16A	250V	10	0,50 - 4,0	②	1	UL, EAC, CQC	CDAM 10		CDAF 10		● 49.16
16A	250V	10	0,14 - 2,5	④	1	-	CSAHM 10		CSAHF 10		● 49.16
16A	830V	3+2 ^(*)	0,14 - 2,5	④	3	-	CMSHM 03		CMSHF 03		● 57.27
16A	500V	10	0,5 - 4,0	②	1	UL, EAC, CQC	CNEM 10 T		CNEF 10 T		● 57.27
16A	500V	10	0,14 - 2,5	④	3	UL, EAC, CQC	CSHM 10		CSHF 10		● 57.27
16A	250V	16	0,50 - 4,0	②	1	UL, EAC, CQC	CDAM 16		CDAF 16		● 66.16
16A	250V	16	0,14 - 2,5	④	1	-	CSAHM 16		CSAHF 16		● 66.16
16A	830V	6+2 ^(*)	0,14 - 2,5	④	3	-	CMSHM 06		CMSHF 06		● 77.27
16A	500V	16	0,5 - 4,0	②	1	UL, EAC, CQC	CNEM 16 T		CNEF 16 T		● 77.27
16A	500V	16	0,14 - 2,5	④	3	UL, EAC, CQC	CSHM 16		CSHF 16		● 77.27
16A	830V	10+2 ^(*)	0,14 - 2,5	④	3	-	CMSHM 10		CMSHF 10		● 104.27
16A	500V	24	0,5 - 4,0	②	1	UL, EAC, CQC	CNEM 24 T		CNEF 24 T		● 104.27
16A	500V	24	0,14 - 2,5	④	3	UL, EAC, CQC	CSHM 24		CSHF 24		● 104.27
16A	250V	32	0,50 - 4,0	②	1	UL, EAC, CQC	CDAM 16 + CDAM 16 N		CDAF 16 + CDAF 16 N		● 66.40
16A	250V	32	0,14 - 2,5	④	1	-	CSAHM 16 + CSAHM 16 N		CSAHF 16 + CSAHF 16 N		● 66.40
16A	830V	12+4 ^(*)	0,14 - 2,5	④	3	-	CMSHM 06 + CMSHM 06 N		CMSHF 06 + CMSHF 06 N		● 77.62
16A	500V	32	0,5 - 4,0	②	1	UL, EAC, CQC	CNEM 16 T + CNEM 16 TN		CNEF 16 T + CNEF 16 TN		● 77.62
16A	500V	32	0,14 - 2,5	④	3	UL, EAC, CQC	CSHM 16 + CSHM 16 N		CSHF 16 + CSHF 16 N		● 77.62
16A	500V	48	0,14 - 2,5	④	3	-	CMSHM 10 + CMSHM 10 N		CMSHF 10 + CMSHF 10 N		● 104.62
16A	500V	48	0,5 - 4,0	②	1	UL, EAC, CQC	CNEM 24 T + CNEM 24 TN		CNEF 24 T + CNEF 24 TN		● 104.62
16A	500V	48	0,14 - 2,5	④	3	UL, EAC, CQC	CSHM 24 + CSHM 24 N		CSHF 24 + CSHF 24 N		● 104.62
35A	400V	6	1,5 - 6	②	0,5	UL, EAC, CQC	CPM 06		CPF 06		● 77.27
80A	400/690V	4	Up to 16	②	0,3	UL, EAC, CQC	CXM 4/0		CXF 4/0		● 77.27
80A	400/690V	4/2 (16A)	Up to 16	②	0,3/1	UL, EAC, CQC	CXM 4/2		CXF 4/2		● 77.27
80A	230/400V	4/8 (16A)	Up to 16	②	0,3/1	UL, EAC, CQC	CXM 4/8		CXF 4/8		● 104.27

(*) +2, +4 = Auxiliary contacts in forward position upon opening

Type of connection

Connection type ① Crimped

CD



Crimped female contacts – Silver-plated

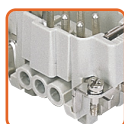
CDFA 0.3	Section	0,14+0,37 mm ²	- AWG 26+22
CDFA 0.5	Section	0,5 mm ²	- AWG 20
CDFA 0.7	Section	0,75 mm ²	- AWG 18
CDFA 1.0	Section	0,1 mm ²	- AWG 18
CDFA 1.5	Section	1,5 mm ²	- AWG 16
CDFA 2.5	Section	2,5 mm ²	- AWG 14



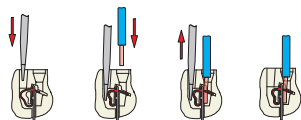
Crimped male contacts – Silver-plated

CDMA 0.3	Section	0,14+0,37 mm ²	- AWG 26+22
CDMA 0.5	Section	0,5 mm ²	- AWG 20
CDMA 0.7	Section	0,75 mm ²	- AWG 18
CDMA 1.0	Section	0,1 mm ²	- AWG 18
CDMA 1.5	Section	1,5 mm ²	- AWG 16
CDMA 2.5	Section	2,5 mm ²	- AWG 14

Connection type ② Screw terminal



Connection type ③ Spring



Connection type ④ SQUICH®

CLASS
for heavy-duty applications

Connection without tools




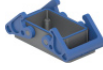
... then, the bulkhead mounting housings,



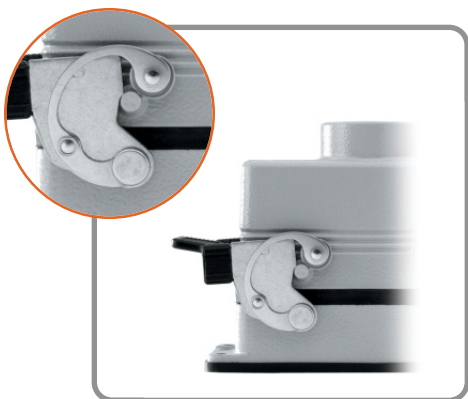
BULKHEAD MOUNTING

HYGIENIC T-TYPE/H Series

In thermoplastic material (IP66/IP69 degree of protection)

Dimensions of inserts/enclosures	1 LEVER		2 LEVERS	
	 WITH metal cover	WITHOUT cover	 WITH metal cover	WITHOUT cover
● 44.27	THIH 06 L			
● 57.27			THIH 10	
● 77.27			THIH 16	
● 104.27			THIH 24	


T-TYPE/C series for temperatures between -50 °C and +70 °C available on demand.



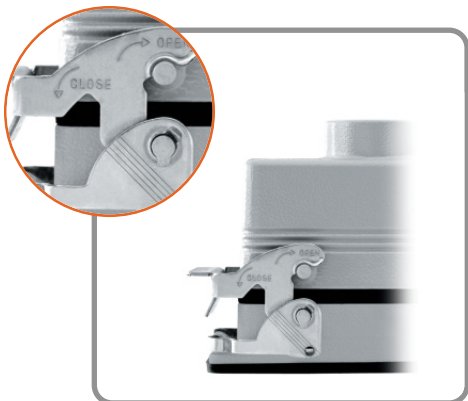
BULKHEAD MOUNTING

C-Type Series

CLASS rotating lever (IP65/IP66 degree of protection)

Dimensions of inserts/enclosures	1 LEVER		2 LEVERS	
	 WITH metal cover	WITHOUT cover	 WITH metal cover	WITHOUT cover
● 44.27	CHI 06 LS	CHI 06 L		
● 57.27	CHI 10 LS	CHI 10 L	CHI 10	
● 77.27	CHI 16 LS	CHI 16 L	CHI 16	
● 104.27	CHI 24 LS	CHI 24 L	CHI 24	
● 77.62	CHI 32 LS	CHI 32 L	CHI 32	
● 104.62 ¹⁾	CHI 48 LS	CHI 48 L		
● 66.40			CHI 50	



¹⁾ Rigid monobloc lever in stainless steel.



BULKHEAD MOUNTING

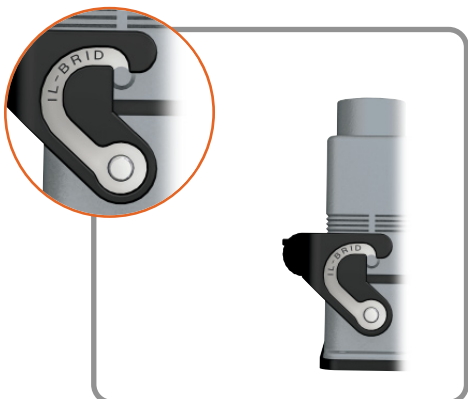
C7 Series with IP67 degree of protection²⁾

V-Type levers in stainless steel with vertical fastening

Dimensions of inserts/enclosures	1 LEVER				2 LEVERS	
	 WITH metal cover	 WITH SELF-CLOSING insulating cover	WITHOUT cover	 WITH metal cover	WITHOUT cover	
● 44.27	CVI 06 LS	CVI 06 LSP	CVI 06 L ²⁾			
● 57.27	CVI 10 LS	CVI 10 LSP	CVI 10 L	CVI 10 ²⁾		
● 77.27	CVI 16 LS	CVI 16 LSP	CVI 16 L	CVI 16 ²⁾		
● 104.27	CVI 24 LS	CVI 24 LSP	CVI 24 L	CVI 24 ²⁾		

CV version (IP65/IP66 degree of protection).


²⁾ Version C7 (IP66/IP67 degree of protection).



BULKHEAD MOUNTING

IL-BRID Series

Soft closing, strong hold (IP65/IP66 degree of protection)

Dimensions of inserts/enclosures	1 LEVER	
	 WITH metal cover	WITHOUT cover
● 49.16	CZI 15 LS	CZI 15 L
● 66.16	CZI 25 LS	CZI 25 L

... or the surface mounting housings,

SURFACE MOUNTING

HYGIENIC T-TYPE/H Series

In thermoplastic material (IP66/IP69 degree of protection)

Dimensions of inserts/enclosures	1 LEVER		2 LEVERS		
	WITH metal cover	WITHOUT cover	WITH metal cover	WITHOUT cover	
	Metric		Metric		
● 44.27	TAPH 06 L25				(M25) ³⁾
● 57.27			TAPH 10.25		(M25) ³⁾
● 77.27			TAPH 16.32		(M32) ⁴⁾
● 104.27			TAPH 24.32		(M32) ⁴⁾

³⁾ M32 version also available.

⁴⁾ M40 version also available.

SURFACE MOUNTING

C-Type Series

CLASS rotating lever (IP65/IP66 degree of protection)

Dimensions of inserts/enclosures	1 LEVER				2 LEVERS		
	WITH metal cover	WITHOUT cover	WITH metal cover	WITHOUT cover	WITH metal cover	WITHOUT cover	
	Pg	Metric	Pg	Metric	Pg	Metric	
● 44.27 ⁵⁾	CHP 06 LS	MHP 06 LS20	CHP 06 L	MHP 06 L20			(Pg16-M20)
● 57.27 ⁵⁾	CHP 10 LS	MHP 10 LS20	CHP 10 L	MHP 10 L20	CHP 10	MHP 10.20	(Pg16-M20)
● 77.27 ⁵⁾	CHP 16 LS	MHP 16 LS25	CHP 16 L	MHP 16 L25	CHP 16	MHP 16.25	(Pg21-M25)
● 104.27 ⁵⁾	CHP 24 LS	MHP 24 LS25	CHP 24 L	MHP 24 L25	CHP 24	MHP 24.25	(Pg21-M25)
● 77.62	CHP 32 LS	MHP 32 LS40	CHP 32 L	MHP 32 L40	CHP 32	MHP 32.40	(Pg36-M40)
● 104.62	CHP 48 LS	MHP 48 LS40	CHP 48 L	MHP 48 L40			(Pg36-M40)
● 66.40 ⁵⁾					CHP 50.21	MHP 50.32	(Pg21-M32)

⁵⁾ Also available: high constructions with pre-code CAP/MAP/CZAP/MZAP and Pg21, Pg29, M32, M40, M50 threads.

SURFACE MOUNTING

C7 Series with IP67 degree of protection⁷⁾

V-Type levers in stainless steel with vertical fastening

Dimensions of inserts/enclosures	1 LEVER				2 LEVERS		
	WITH metal cover	WITHOUT cover	WITH metal cover	WITHOUT cover	WITH metal cover	WITHOUT cover	
	Pg	Metric	Pg	Metric	Pg	Metric	
● 44.27 ⁶⁾	CVP 06 LS	MVP 06 LS20	C7P 06 L ⁷⁾	M7P 06 L20 ⁷⁾			(Pg16-M20)
● 57.27 ⁶⁾	CVP 10 LS	MVP 10 LS20	CVP 10 L	MVP 10 L20	C7P 10 ⁷⁾	M7P 10.20 ⁷⁾	(Pg16-M20)
● 77.27 ⁶⁾	CVP 16 LS	MVP 16 LS25	CVP 16 L	MVP 16 L25	C7P 16 ⁷⁾	M7P 16.25 ⁷⁾	(Pg21-M25)
● 104.27 ⁶⁾	CVP 24 LS	MVP 24 LS25	CVP 24 L	MVP 24 L25	C7P 24 ⁷⁾	M7P 24.25 ⁷⁾	(Pg21-M25)

Version CV/MV (IP65/IP66 degree of protection).

⁶⁾ Also available: high constructions with pre-code CVAP/MVAP/C7AP/M7AP and Pg21, Pg29, M32, M40 threads.

⁷⁾ Version C7/M7 (IP66/IP67 degree of protection).

SURFACE MOUNTING

IL-BRID Series

Soft closing, strong hold (IP65/IP66 degree of protection)

Dimensions of inserts/enclosures	1 LEVER				
	WITH metal cover	WITHOUT cover	WITH metal cover	WITHOUT cover	
	Pg	Metric	Pg	Metric	
● 49.16 ⁸⁾	CZP 15 LS221	MZP 15 LS225	CZP 15 L21	MZP 15 L25	(Pg21-M25)
● 66.16 ⁸⁾	CZAP 25LS221	MZAP 25LS225	CZAP 25 L21	MZAP 25 L25	(Pg21-M25)





⁸⁾ Also available: high constructions with pre-code CZAP/MZAP and Pg21, Pg29, M32, M40, M50 threads.

... and finally, the coupling hoods.



for HYGIENIC Series

HOODS In thermoplastic material (IP66/IP69 degree of protection)





Dimensions of inserts/enclosures	FOR 1 LEVER	FOR 2 LEVERS	FOR 1 LEVER	FOR 2 LEVERS	
					
	Metric		Metric		
● 44.27	TMAO 06 L25		TMAV 06 L25		(M25) ⁹⁾
● 57.27			TMAO 10.25		(M25) ⁹⁾
● 77.27			TMAO 16.32		(M32) ¹⁰⁾
● 104.27			TMAO 24.32		(M32) ¹⁰⁾

⁹⁾ M32 version also available.

¹⁰⁾ M40 version also available.

for C-Type / C7 / IL-BRID Series

HOODS With 2 or 4 pegs

Dimensions of inserts/enclosures	FOR 1 LEVER		FOR 2 LEVERS		FOR 1 LEVER		FOR 2 LEVERS		
									
	Pg	Metric	Pg	Metric	Pg	Metric	Pg	Metric	
● 44.27 ¹¹⁾	CHO 06 L16	MHO 06 L20			CHV 06 L16	MHV 06 L20			(Pg16-M20)
● 57.27 ¹¹⁾	CHO 10 L	MHO 10 L20	CHO 10	MHO 10.20	CHV 10 L	MHV 10 L20	CHV 10	MHV 10.20	(Pg16-M20)
● 77.27 ¹¹⁾	CHO 16 L	MHO 16 L25	CHO 16	MHO 16.25	CHV 16 L	MHV 16 L25	CHV 16	MHV 16.25	(Pg21-M25)
● 104.27 ¹¹⁾	CHO 24 L	MHO 24 L25	CHO 24	MHO 24.25	CHV 24 L	MHV 24 L25	CHV 24	MHV 24.25	(Pg21-M25)
● 77.62	CHO 32 L	MHO 32 L40	CHO 32	MHO 32.40	CHV 32 L	MHV 32 L40	CHV 32	MHV 32.40	(Pg36-M40)
● 104.62	CHO 48 L	MHO 48 L40			CHV 48 L	MHV 48 L40			(Pg36-M40)
● 66.40 ¹¹⁾			CHO 50	MHO 50.25			CAV 50.21	MAV 50.25	(Pg21-M25)
● 49.16 ¹¹⁾	CZO 15 L	MZO 15 L20			CZAV 15 L16	MZV 15 L20			(Pg16-M20)
● 66.16 ¹¹⁾	CZO 25 L	MZO 25 L20			CZV 25 L	MZV 25 L20			(Pg16-M20)

¹¹⁾ Also available: high constructions with pre-code CAO/MAO/CAV/MAV/CZAO/MZAO/CZAV/MZAV and Pg21, Pg29, M32, M40, M50 threads.

Housings for CK inserts (X = Lever in stainless steel)

Dimensions of inserts/enclosures	INSULATING			METALLIC		
	bulkhead mounting	angled bulkhead	surface mounting	bulkhead mounting	angled bulkhead	surface mounting
		 WITHOUT cable gland entry	 WITH cable gland entry		 WITHOUT cable gland entry	 WITH cable gland entry
● 21.21	CK 03 I	CK 03 IA	CK 03 IAPS	CKAX 03 I	CKAX 03 IA	CKAX 03 IAPS
● 21.21			MK IAP20	CKA 03 I	CKA 03 IA	MKAX IAP20
● 21.21						CKA 03 IAPS
● 21.21						MKA IAP20

Hoods for CK inserts

Dimensions of inserts/enclosures	INSULATING			METALLIC		
	side entry	top entry		side entry	top entry	
	with pegs	with pegs	with lever	with pegs	with pegs	with lever
● 21.21						
● 21.21	CK 03 VAS	CK 03 VS	CK 03 VGS	CKA 03 VAS	CKA 03 VS	CKAX 03 VGS
● 21.21	MK VA20	MK V20	MK VG20	MKA VA20	MKA V20	MKAX VG20
● 21.21						CKA 03 VGS
● 21.21						MKA VG20

Covers for female inserts

Covers for male inserts

INSULATING		METALLIC		INSULATING		METALLIC	
with pegs	with lever	with pegs	with lever	with pegs	with lever	with pegs	with lever
CK 03 C	CK 03 CX	CKA 03 C	CKAX 03 CX	CK 03 CA	CK 03 CXA	CKA 03 CA	CKAX 03 CXA

CK/CKA IAP/VA/VG = Pg 11

MK/MKA IAP/VA/VG = M20

**ILME S.p.A.**

Via Marco Antonio Colonna, 9
20149 Milano - Italy
T +39 02345605.22 - F +39 02331058.13
www.ilme.com

ILME FRANCE S.A.R.L.

Rue Roland Garros - BP 125
Parc d'Activités de l'Aéroport
42160 Andrézieux-Bouthéon - France
T +33 (0) 4 77 36 23 36 - F +33 (0) 4 77 36 97 97
ilme-france@ilme.fr
www.ilme.fr

ILME GmbH

Max-Planck-Straße 12
51674 Wiehl - Germany
T +49 (0)2261 - 7955-0 - F +49 (0)2261 - 7955-5
technik@ilme.de
www.ilme.de

ILME NORDIC AB

Transportvägen 18
24642 Löddeköpinge - Sweden
T +46 46 18 28 00 - F +46 46 18 28 10
info@ilme.se
www.ilme.se

ILME UK LIMITED

50 Evans Road, Venture Point
Speke, Merseyside L24 9PB - United Kingdom
T +44 (0) 151 3369321 - F +44 (0) 151 3369326
sales@ilmeuk.co.uk
www.ilmeuk.co.uk

ILME CHINA CO. LTD.

Room 307, D area, No. 245,
Xin Jun Huan Road, MinHang Dis
201114 Shanghai - China
T +86 21 6248 9961 - F +86 21 3478 8067
info@ilmechina.com
www.ilmechina.com

ILME JAPAN CO. LTD.

Kobe International Business Center - 650-0047, 5-2, 5 - Chome,
Minatojima Minami-Machi - Chuo-Ku, Kobe - Japan
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