

DE MOLLI

QID

E.mail: info@demollispa.it

INDUSTRIE

<http://www.dmgindustrie.it>

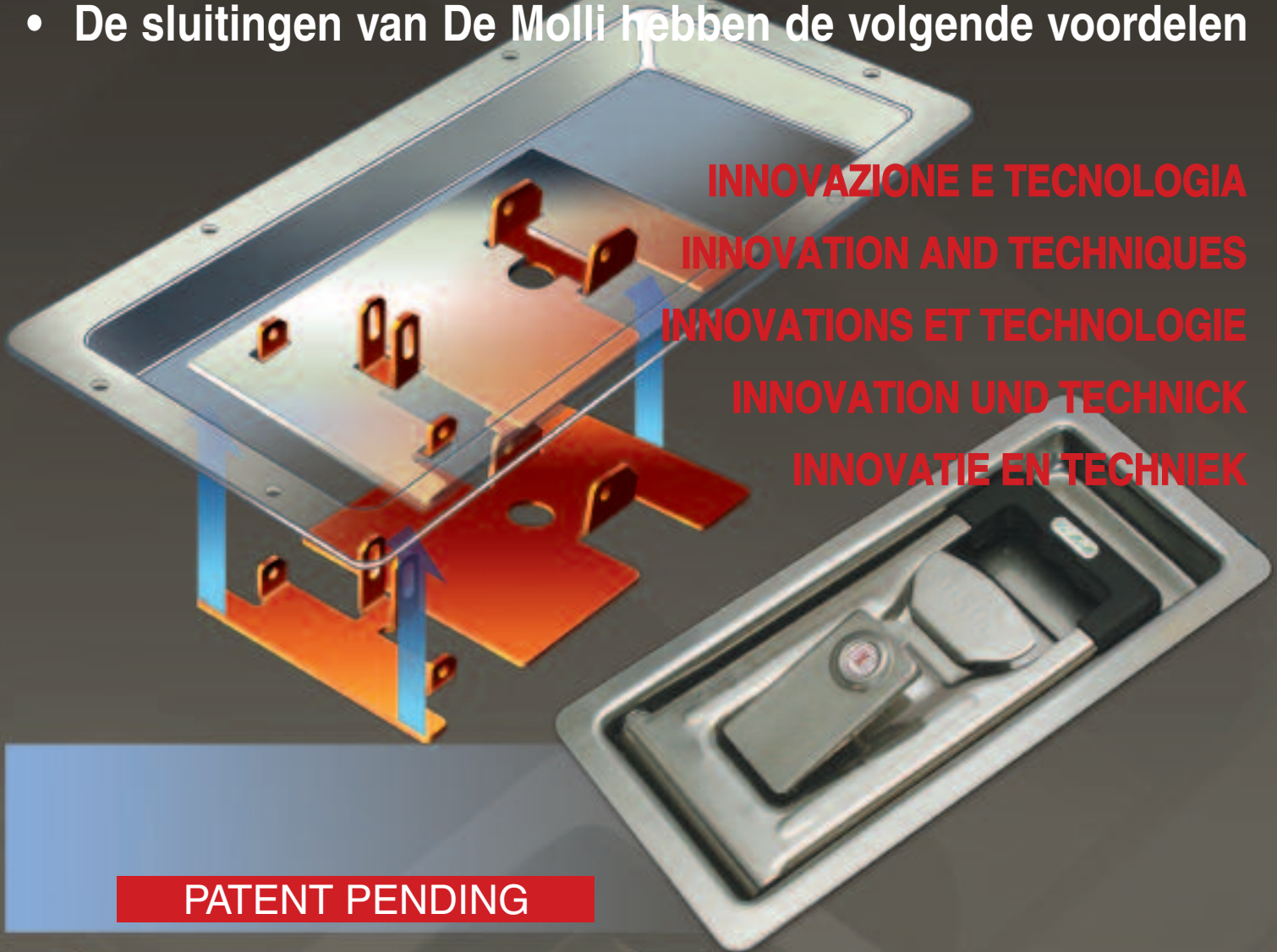


PATENT PENDING

2

DIVISIONE CHIUSURE PER FURGONI ISOTERMICI

- Quali sono i vantaggi delle chiusure De Molli
- These are the advantages of the De Molli locks
- Quels sont les avantages de les crémones de Molli
- Dies sind die Vorteile der De Molli Verschlüssen
- De sluitingen van De Molli hebben de volgende voordelen



INNOVAZIONE E TECNOLOGIA
INNOVATION AND TECHNIQUES
INNOVATIONS ET TECHNOLOGIE
INNOVATION UND TECHNICK
INNOVATIE EN TECHNIEK

PATENT PENDING



NESSUNA SALDATURA

The De Molli locks are build without any welding of the active parts, assuring the maximum safety of the lock.
Les crémones DE MOLLI sont construites sans soudures dans les parts actives, vous en portant garant la sécurité de la crémonne.
Die De Molli Verschlüssen werden gebaut ohne Schweissnähten, damit einen maximalen Sicherheit gewährleistet ist.
De sluitingen van De Molli zijn niet gelast op de actieve delen, zodat een maximale zekerheid gewaarborgd is.



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Ed. N°04-06

DE MOLLI È FORNITORE UFFICIALE



I VANTAGGI / ADVANTAGES / AVANTAGES / VORTEILEN / VOORDELEN

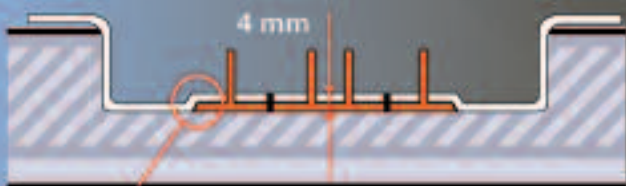
Alti spessori in acciaio inox / Increased material thickness of stainless steel / L'épaisseur plus élevée en acier inox / Erhöhte Materialstärke / Grotere materiaaldikte



1,5 mm

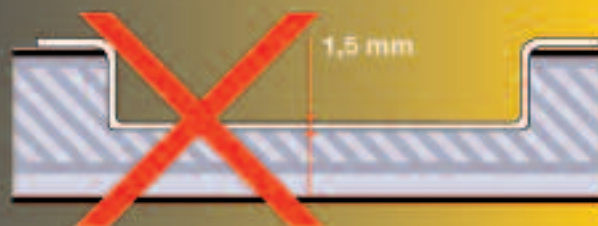


Ancoraggio della base / Fixing to the base / Fixation dans la cuvette / Befestigung an der Wanne / Bevestiging aan de schaal



4 mm

DI ACCIAIO INOX
STAINLESS STEEL
D'ACIER INOX
EDELSTAHL
ROESTVASTSTAAL



MAGGIOR SOLIDITÀ

INCREASED SOLIDITY. NO EXTRACTION. LARGE ENDURANCE
BEUCOUP PLUS SOLIDE ANTI DÉMOLITION SÉCURITÉ POUR L'AVENIR
VIEL STABIELER. REIßT NICHT AB. ERHÖHTE LEBENSDAUER
VERHOOGDE STABILITEIT. BREEKT NIET AF. VERLENGDE LEVENSDUUR

LA MIGLIORE ESPRESSIONE DELLA TECNOLOGIA E DEL DESIGN ITALIANO
THE BEST EXPRESSION IN ITALY'S COMBINATION OF TECHNIQUE AND DESIGN
LE MEILLEUR EXPRESSION DE LA TECHNOLOGIE ET DESIGN ITALIEN
DEN BESTER ITALIENISCHEN ÄUSSERUNG IN TECHNIK UND DESIGN
DE BESTE ITALIAANSE COMBINATIE VAN TECHNIEK EN DESIGN



D.M.G. Industrie

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<http://www.dmgindustrie.it>

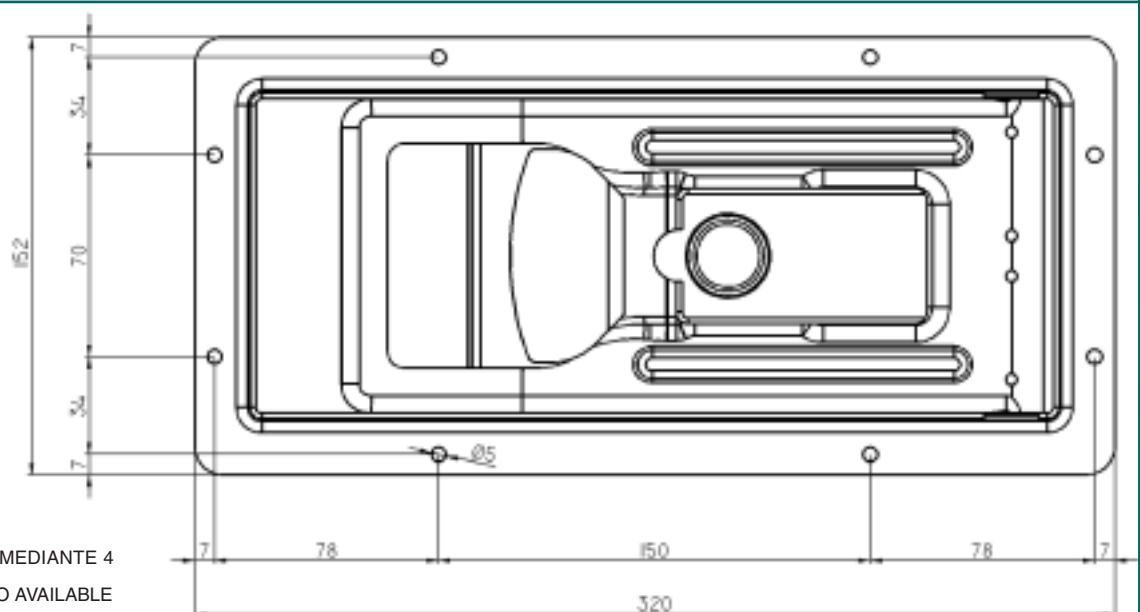
Ed. N°04-06

INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS
90C15100/A	90C15101/A	90C15102/A
mm. 23,5 Profondità	mm. 29 Profondità	mm. 34 Profondità
23,5 mm Recess depth / mm 23,5 d'encastrement / 23,5 mm Einbautiefe / 23,5 mm Inbouwdiepte	29 mm Recess depth / mm 29 d'encastrement / 29 mm Einbautiefe / 29 mm Inbouwdiepte	34 mm Recess depth / mm 34 d'encastrement / 34 mm Einbautiefe / 34 mm Inbouwdiepte
Chiusura da incasso per tubo Ø 16 con ancoraggi senza saldatura. Recessed lock for tube Ø 16 with fixing-points without weldings. Crémone à encastrer pour tube Ø 16 avec fixations internes sans soudure. Einbau-Verschluß für Rohr Ø 16 mit Anschläge ohne Schweißstellen. Inbouwsluiting voor buis diam Ø 16 met bevestigingspunten zonder lassen.	Chiusura da incasso per tubo Ø 16 con ancoraggi senza saldatura. Recessed lock for tube Ø 16 with fixing-points without weldings. Crémone à encastrer pour tube Ø 16 avec fixations internes sans soudure. Einbau-Verschluß für Rohr Ø 16 mit Anschläge ohne Schweißstellen. Inbouwsluiting voor buis diam Ø 16 met bevestigingspunten zonder lassen.	Chiusura da incasso per tubo Ø 16 con ancoraggi senza saldatura. Recessed lock for tube Ø 16 with fixing-points without weldings. Crémone à encastrer pour tube Ø 16 avec fixations internes sans soudure. Einbau-Verschluß für Rohr Ø 16 mit Anschläge ohne Schweißstellen. Inbouwsluiting voor buis diam Ø 16 met bevestigingspunten zonder lassen.



INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS
90C15190/A	90C15191/A	90C15192/A
mm. 23,5 Profondità	mm. 29 Profondità	mm. 34 Profondità
23,5 mm Recess depth / mm 23,5 d'encastrement / 23,5 mm Einbautiefe / 23,5 mm Inbouwdiepte	29 mm Recess depth / mm 29 d'encastrement / 29 mm Einbautiefe / 29 mm Inbouwdiepte	34 mm Recess depth / mm 34 d'encastrement / 34 mm Einbautiefe / 34 mm Inbouwdiepte
Chiusura da incasso per tubo Ø 16 con ancoraggi senza saldatura, con flangia non forata. Recessed lock for tube Ø 16 with fixing-points without weldings, and pan without holes Crémone à encastrer pour tube Ø 16 avec fixations internes sans soudure, cuvette non percée. Einbau-Verschluß für Rohr Ø 16 mit Anschläge ohne Schweißstellen, mit ungelöchte Wanne. Inbouwsluiting voor buis diam Ø 16 met bevestigingspunten zonder lassen; schaal ongeboord.	Chiusura da incasso per tubo Ø 16 con ancoraggi senza saldatura, con flangia non forata. Recessed lock for tube Ø 16 with fixing-points without weldings, and pan without holes Crémone à encastrer pour tube Ø 16 avec fixations internes sans soudure, cuvette non percée. Einbau-Verschluß für Rohr Ø 16 mit Anschläge ohne Schweißstellen, mit ungelöchte Wanne. Inbouwsluiting voor buis diam Ø 16 met bevestigingspunten zonder lassen; schaal ongeboord.	Chiusura da incasso per tubo Ø 16 con ancoraggi senza saldatura, con flangia non forata. Recessed lock for tube Ø 16 with fixing-points without weldings, and pan without holes Crémone à encastrer pour tube Ø 16 avec fixations internes sans soudure, cuvette non percée. Einbau-Verschluß für Rohr Ø 16 mit Anschläge ohne Schweißstellen, mit ungelöchte Wanne. Inbouwsluiting voor buis diam Ø 16 met bevestigingspunten zonder lassen; schaal ongeboord.

PATENT PENDING



PREVISTO ANCHE FISSAGGIO MEDIANTE 4 FORI SU FONDO VASCHETTA
PAN WITH 4 HOLES FIXING ALSO AVAILABLE

D.M.G. Industrie 

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

90C15100/A

mm. 23,5 Profondità / 23,5 mm Recess depth / mm 23,5 d'encastrement / 23,5 mm Einbautiefe / 23,5 mm Inbouwdiepte

Chiusura da incasso
Recessed lock.
Crémone à encastrer.
Einbau-Verschlüss.
Inbouwsluiting.

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

90C15101/A

mm. 29 Profondità / 29 mm Recess depth / mm 29 d'encastrement / 29 mm Einbautiefe / 29 mm Inbouwdiepte

Chiusura da incasso
Recessed lock.
Crémone à encastrer.
Einbau-Verschlüss.
Inbouwsluiting.

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

90C15102/A

mm. 34 Profondità / 34 mm Recess depth / mm 34 d'encastrement / 34 mm Einbautiefe / 34 mm Inbouwdiepte

Chiusura da incasso
Recessed lock.
Crémone à encastrer.
Einbau-Verschlüss.
Inbouwsluiting.

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

90C15190/A

mm. 23,5 Profondità / 23,5 mm Recess depth / mm 23,5 d'encastrement / 23,5 mm Einbautiefe / 23,5 mm Inbouwdiepte

Chiusura da incasso non forata
Recessed lock, pan without holes.
Crémone à encastrer, cuvette non percée.
Einbau-Verschlüss mit ungelöchte Wanne.
Inbouwsluiting, schaal ongeboord.

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

90C15191/A

mm. 29 Profondità / 29 mm Recess depth / mm 29 d'encastrement / 29 mm Einbautiefe / 29 mm Inbouwdiepte

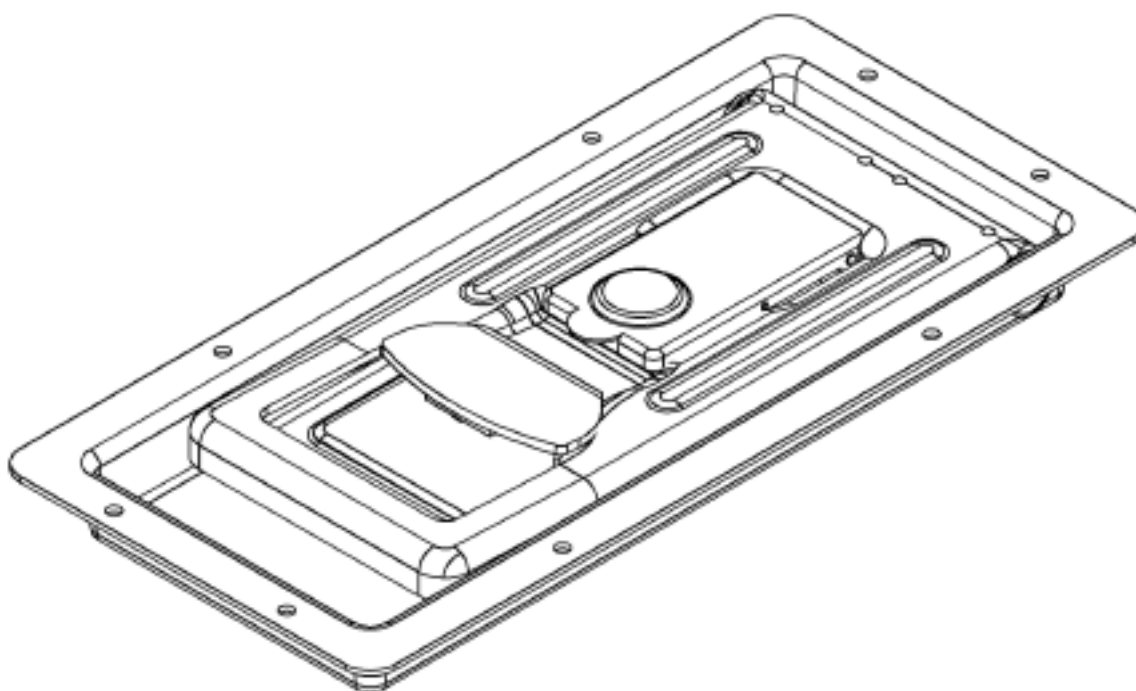
Chiusura da incasso non forata
Recessed lock, pan without holes.
Crémone à encastrer, cuvette non percée.
Einbau-Verschlüss mit ungelöchte Wanne.
Inbouwsluiting, schaal ongeboord.

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

90C15192/A

mm. 34 Profondità / 34 mm Recess depth / mm 34 d'encastrement / 34 mm Einbautiefe / 34 mm Inbouwdiepte

Chiusura da incasso non forata
Recessed lock, pan without holes.
Crémone à encastrer, cuvette non percée.
Einbau-Verschlüss mit ungelöchte Wanne.
Inbouwsluiting, schaal ongeboord.



INOX / STAINLESS STEEL /
 ACIER INOX / EDELSTAHL / RVS

90C15200/A

Chiusura da incasso per tubo Ø 22 con ancoraggi senza saldatura.

Recessed lock for tube Ø 22 with fixing-points without weldings.

Crémone à encastrer pour tube Ø 22 avec fixations internes sans soudure.

Einbau-Verschluß für Rohr Ø 22 mit Anschläge ohne Schweißstellen.

Inbouwsluiting voor buis diam Ø 22 met bevestigingspunten zonder lassen.



INOX / STAINLESS STEEL /
 ACIER INOX / EDELSTAHL / RVS

90C15290/A

Chiusura da incasso per tubo Ø 22 con ancoraggi senza saldatura, con flangia non forata.

Recessed lock for tube Ø 22 with fixing-points without weldings.

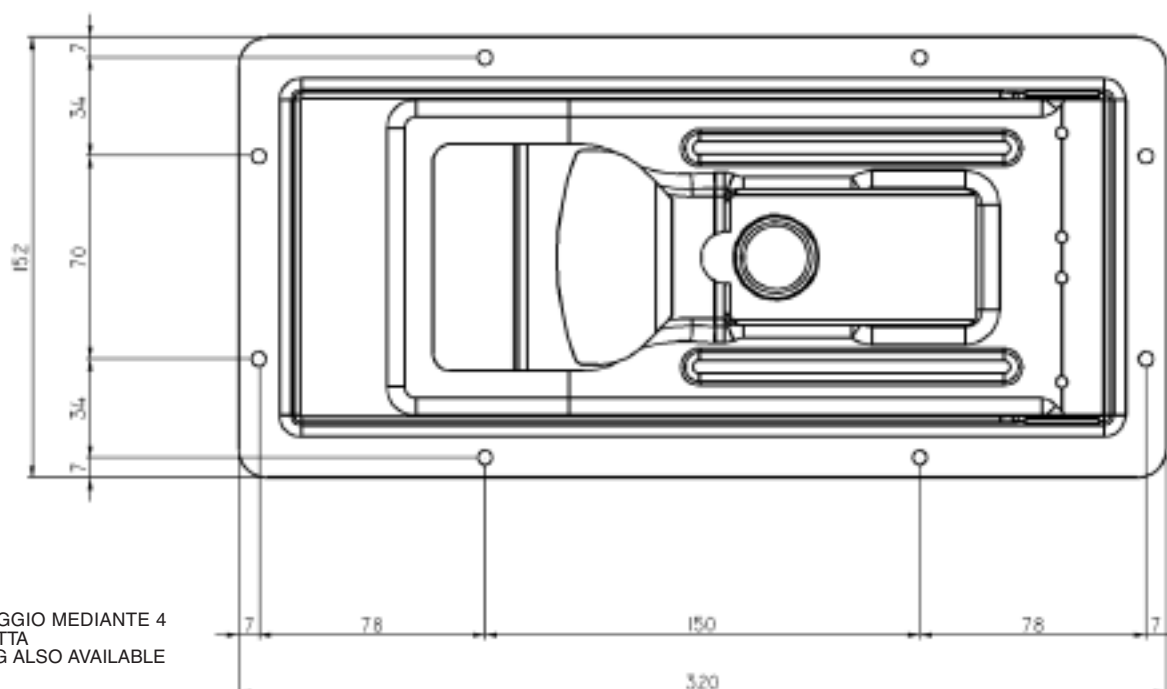
Pan without holes.

Crémone à encastrer pour tube Ø 22 avec fixations internes sans soudure, cuvette non percée.

Einbau-Verschluß für Rohr Ø 22 mit Anschläge ohne Schweißstellen, mit ungelöchte Wanne.

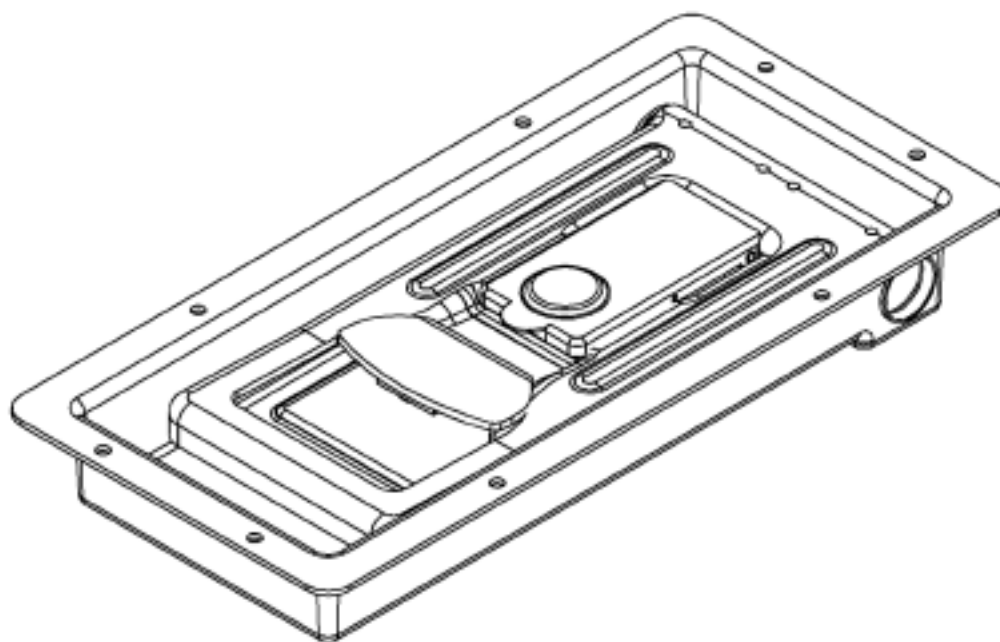
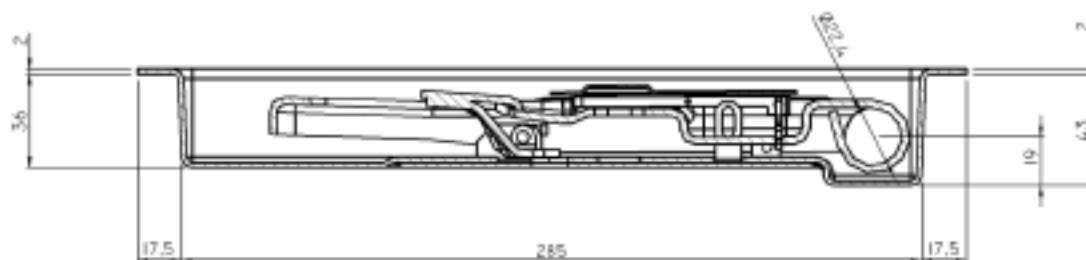
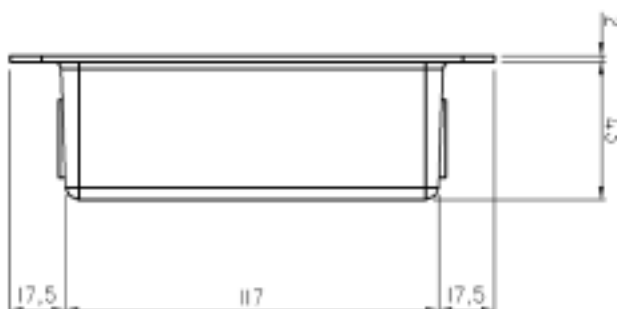
Inbouwsluiting voor buis diam Ø 22 met bevestigingspunten zonder lassen, schaal ongeboord.

PATENT PENDING



PREVISTO ANCHE FISSAGGIO MEDIANTE 4 FORI SU FONDO VASCHETTA
 PAN WITH 4 HOLES FIXING ALSO AVAILABLE

D.M.G. Industrie 



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS

90C15300/A

Chiusura da incasso per tubo Ø 27 con ancoraggi senza saldatura.

Stainless Steel recessed lock for tube Ø 27 with fixing-points without weldings.

Crémone à encastrer pour tube Ø 27 avec fixations internes sans soudure.

Edelstahl Einbau-Verschluß für Rohr Ø 27 mit Anschläge ohne Schweißstellen.

RVS Inbouwsluiting voor buis Ø 27 met bevestigingspunten zonder lassen.



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS

90C15390/A

Chiusura da incasso per tubo Ø 27 con ancoraggi senza saldatura, con flangia non forata.

Stainless Steel recessed lock for tube Ø 27 with fixing-points without weldings.

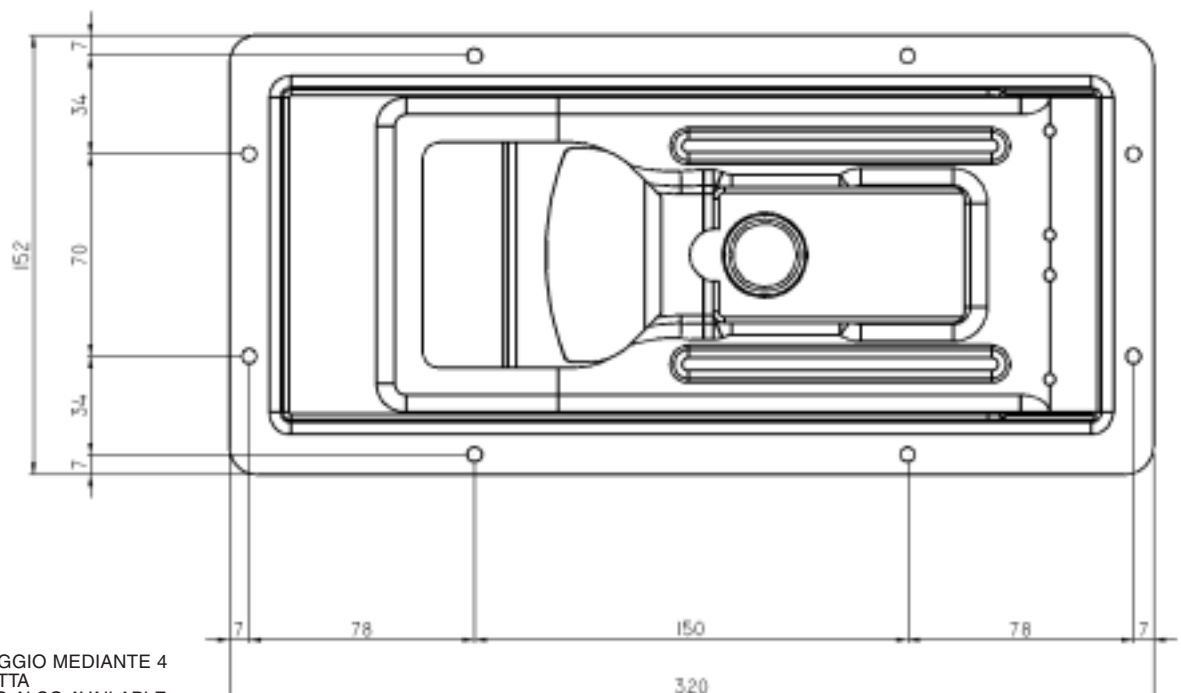
Pan without holes.

Crémone à encastrer pour tube Ø 27 avec fixations internes sans soudure, cuvette non percée.

Edelstahl Einbau-Verschluß für Rohr Ø 27 mit Anschläge ohne Schweißstellen, mit ungelöchte Wanne.

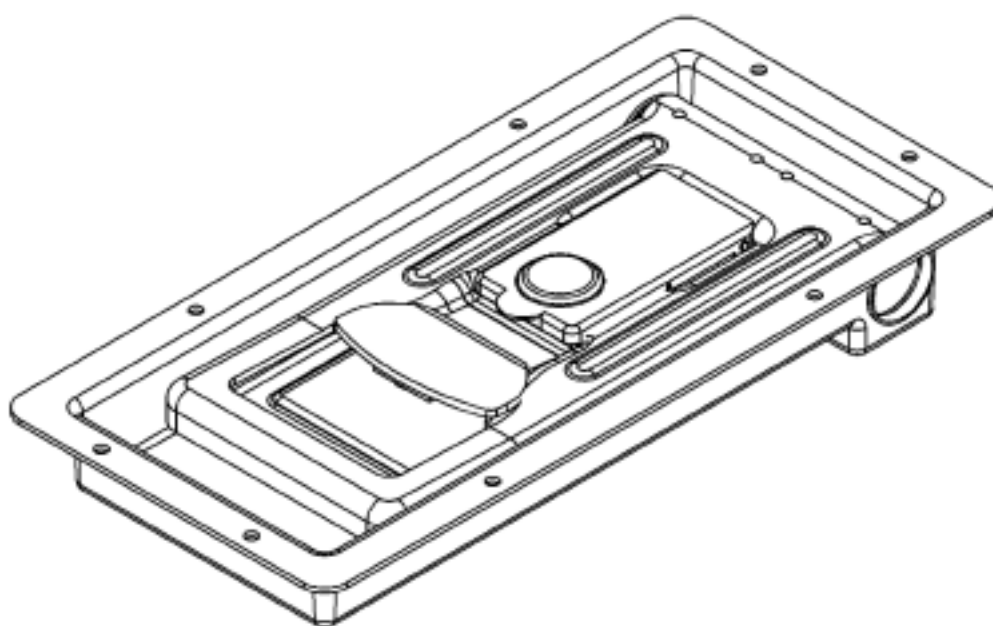
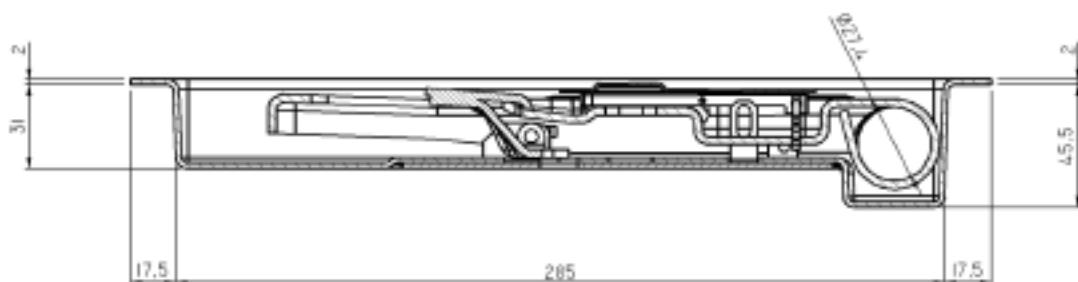
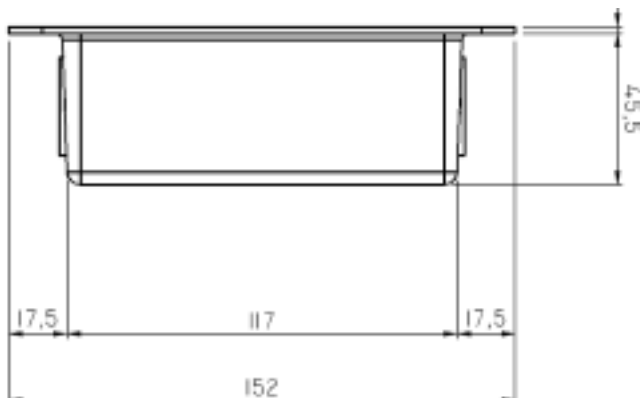
RVS Inbouwsluiting voor buis Ø 27 met bevestigingspunten zonder lassen, schaal ongeboord.

PATENT PENDING



PREVISTO ANCHE FISSAGGIO MEDIANTE 4 FORI SU FONDO VASCHETTA
PAN WITH 4 HOLES FIXING ALSO AVAILABLE

D.M.G. Industrie 



ARPIONI E BASI / CAMS AND KEEPERS. /
PÈNE ET GÂCHE /
SCHLIESSHAKEN UND HALTER. / NOKSTUKKEN EN NOKSTUKHOUDERS.

FISSAGGI

CRANKED GUIDEPLATES.

GRANDS GUIDES, OUI OU NON DEPORTÉS

STANGENFÜHRUNGEN GEKRÖPFT.

STANGGELEIDERS GEBOGEN.



Ø16

Ø22

Ø27

**FISSAGGI / SMALL GUIDE PLATES. /
PETIT GUIDE / STANGENFÜHRUNGEN KLEIN. / KLEINE STANGGELEIDER.**



**CHIUSURA ESTERNA
PUSH-HANDLE.
POIGNÉE EN APPLIQUE
DRÜCKERGRIFF.
PUSH-GREEP.**



**FISSAGGI / SMALL GUIDE PLATES. /
PETIT GUIDE / STANGENFÜHRUNGEN KLEIN. / KLEINE STANGGELEIDER.**



FISSAGGI

CRANKED GUIDEPLATES.

GRANDS GUIDES, OUI OU NON DEPORTÉS

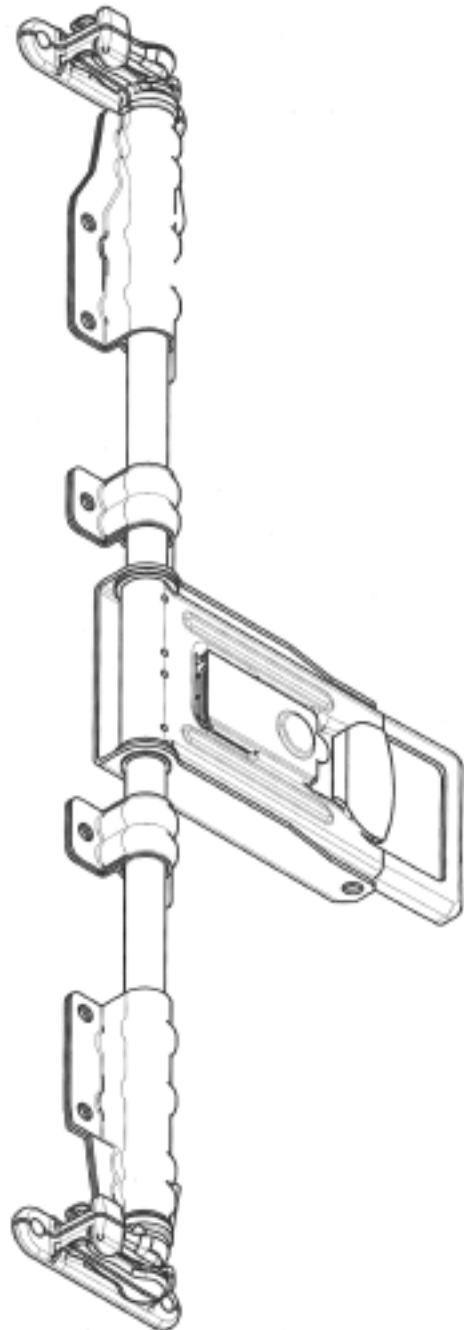
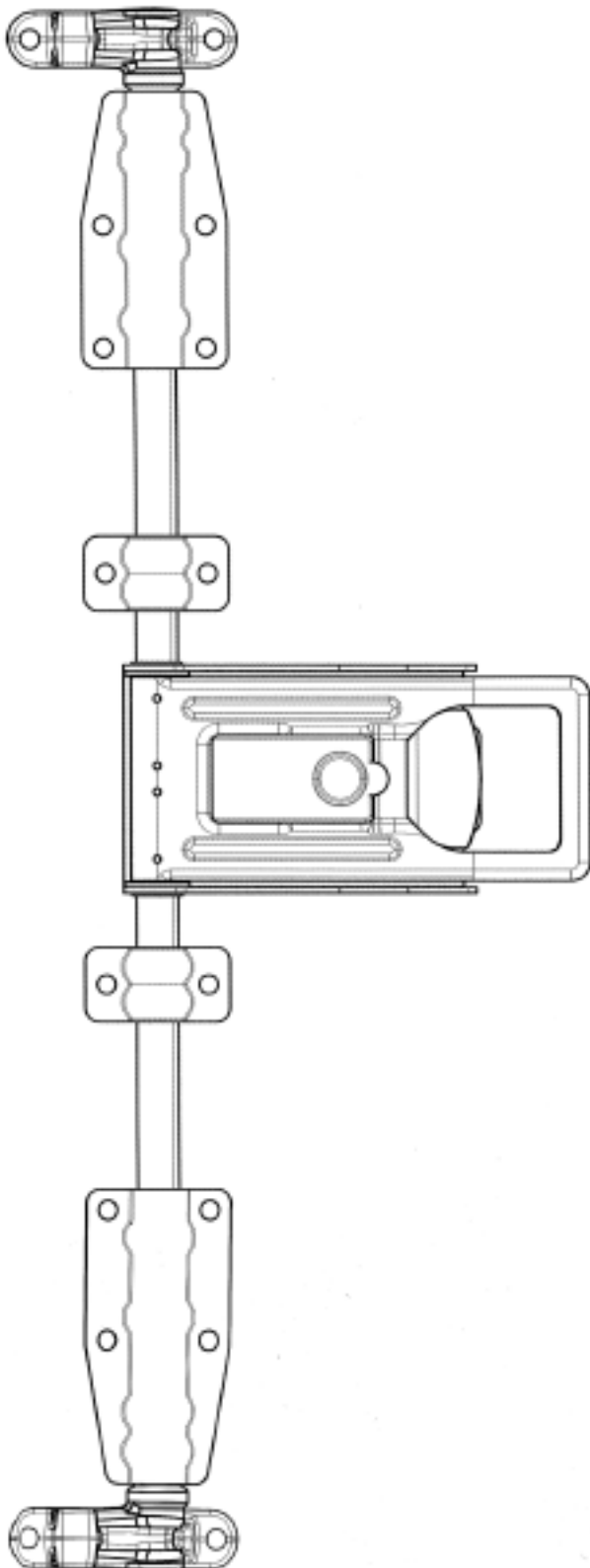
STANGENFÜHRUNGEN GEKRÖPFT.

STANGGELEIDERS GEBOGEN.



ARPIONI E BASI / CAMS AND KEEPERS. /
PÈNE ET GÂCHE /
SCHLIESSHAKEN UND HALTER. / NOKSTUKKEN EN NOKSTUKHOUDERS.

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INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS
90C16200/A

PATENT PENDING

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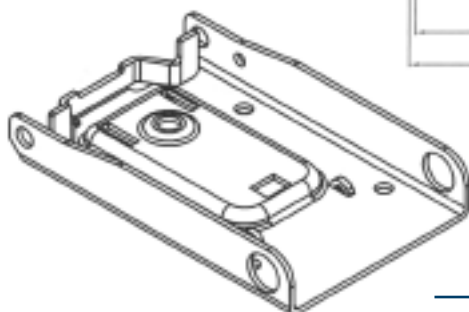
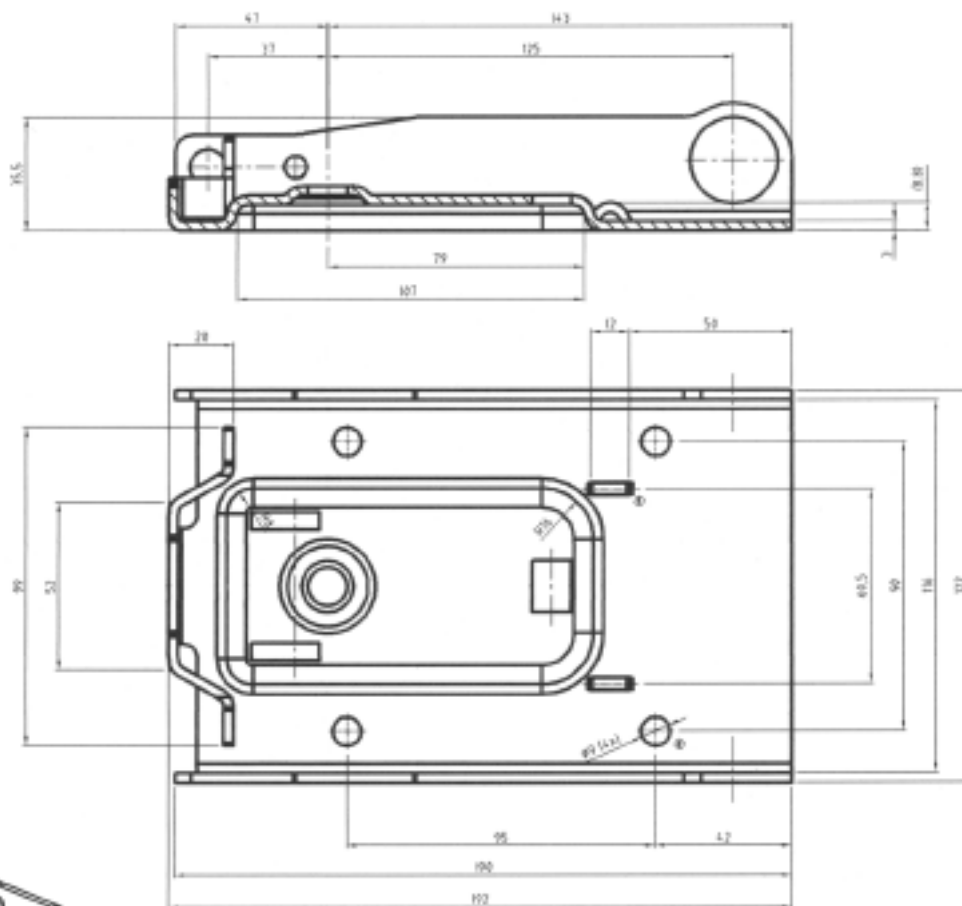
Chiusura esterna per tubo
Ø 22 con ancoraggi senza
saldatura.

External Push-handle for
tube Ø 22 with
fixings without weldings.

Crémone en applique pour
tube Ø 22, avec fixations
internes sans soudure.

Drückergriff aussenliegend
für Ø 22 mit Anschläge ohne
Schweißstellen.

Push-Greep, opliggend voor
buis diam Ø 22 met beves-
tigingspunten zonder lassen.



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS
90C16300/A

Chiusura esterna per tubo
Ø 27 con ancoraggi senza
saldatura.

External Push-handle for
tube Ø 27 with
fixings without weldings.

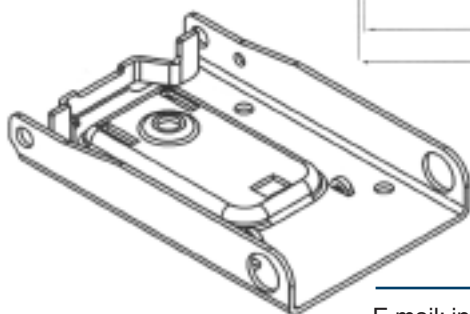
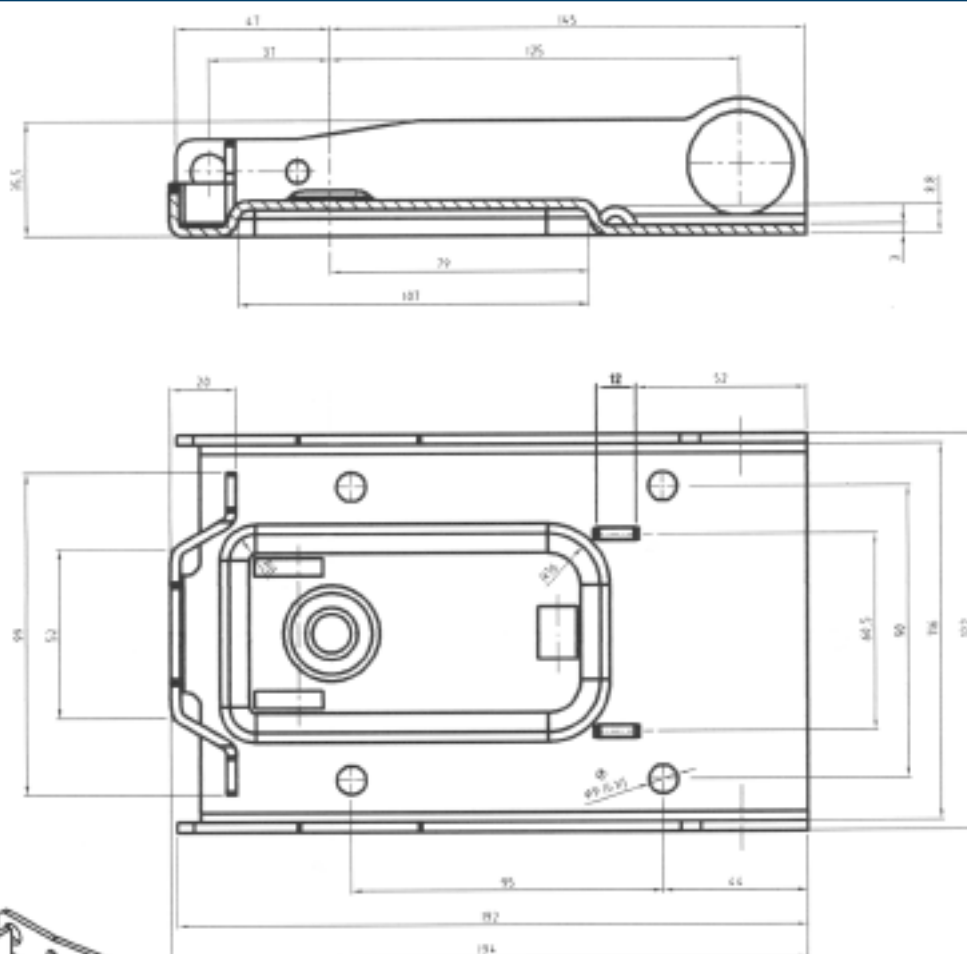
Crémone en applique pour
tube Ø 27, avec fixations
internes sans soudure.

Drückergriff aussenliegend
für Ø 27 mit Anschläge ohne
Schweißstellen.

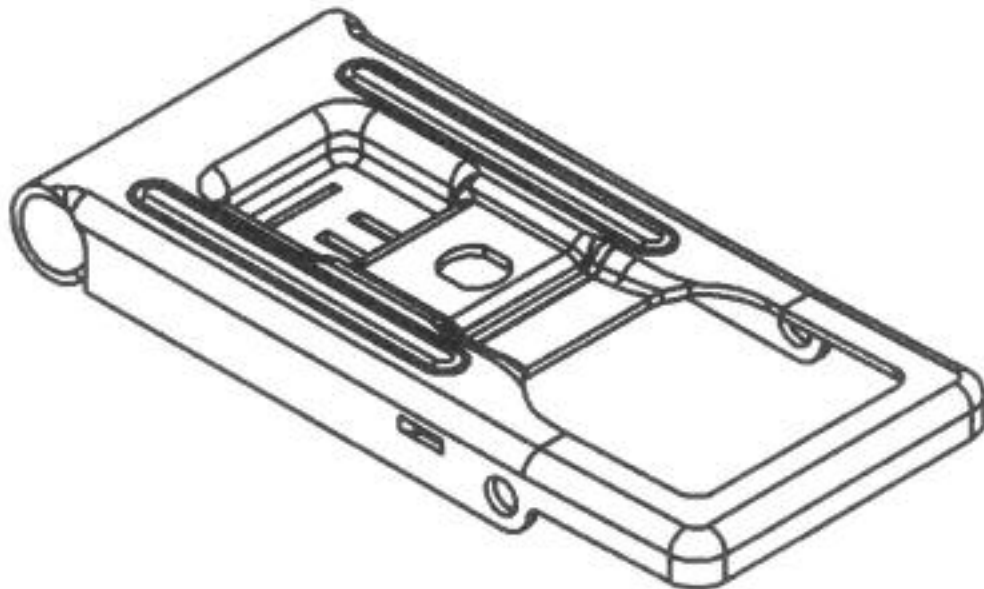
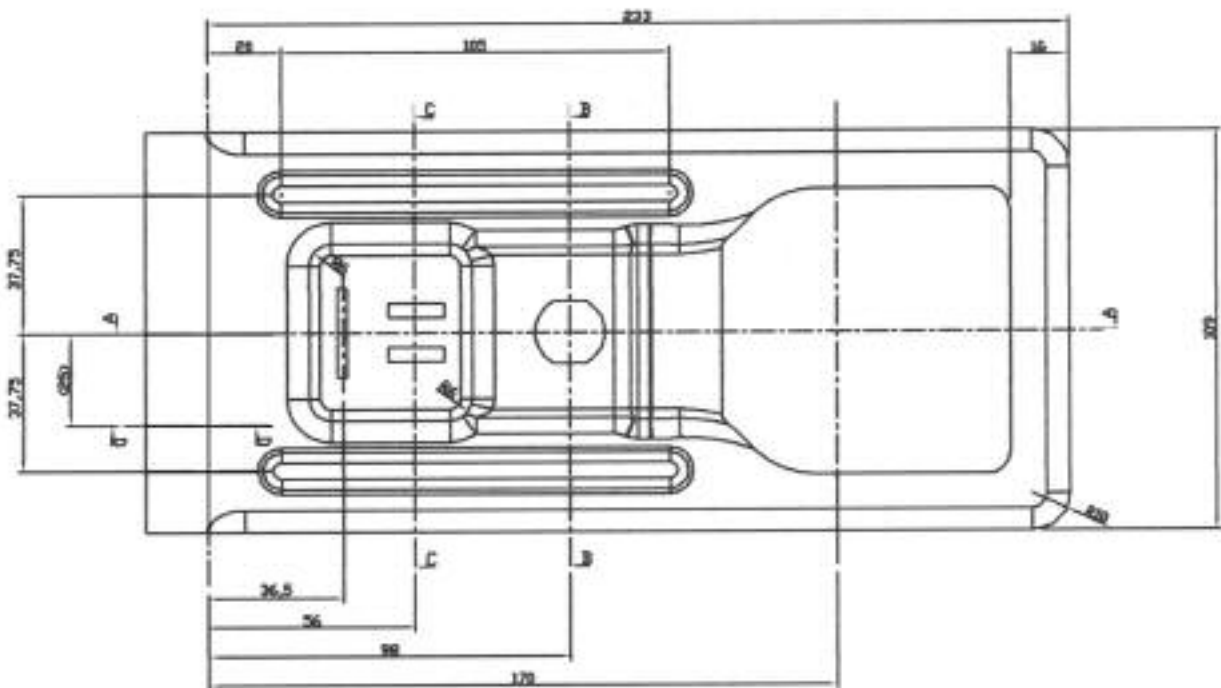
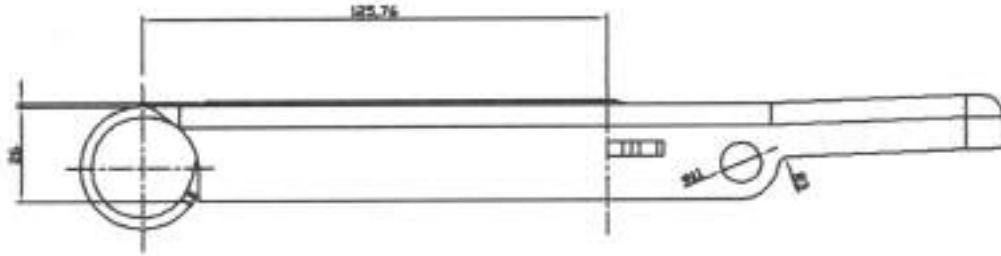
Push-Greep, opliggend voor
buis diam Ø 27 met beves-
tigingspunten zonder lassen.

PATENT PENDING

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ARPIONI E BASI / CAMS AND KEEPERS. /
PÈNE ET GÂCHE / SCHLISSHAKEN
UND HALTER. / NOKSTUKKEN EN NOK-
STUKHOUDERS.

FISSAGGI / SMALL TUBE-SUPPORT. / PETIT GUIDE /
STANGENFÜHRUNGEN KLEIN. / KLEINE STANGGELEIDERS.

FISSAGGI / SMALL TUBE-SUPPORT. / PETIT GUIDE /
STANGENFÜHRUNGEN KLEIN. / KLEINE STANGGELEIDERS.

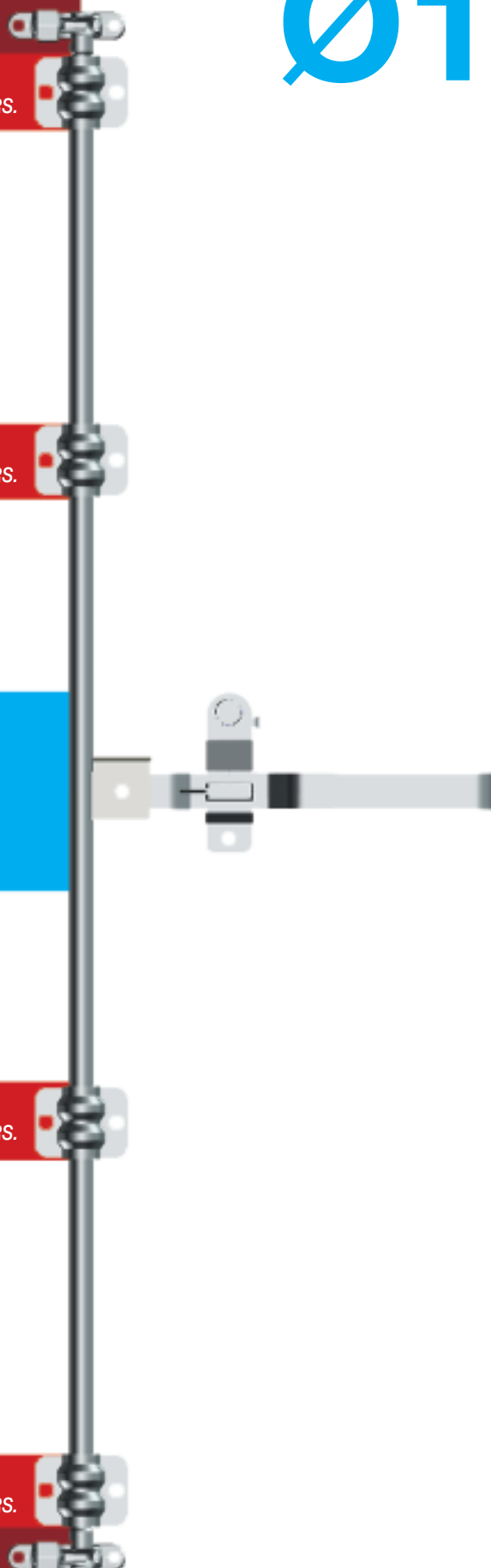
**LEVA PIATTA
STRAIGHT LEVER
POIGNÉE PLAT
HANDHEBEL RECHT
RECHTE HANDGREEP**

FISSAGGI / SMALL TUBE-SUPPORT. / PETIT GUIDE /
STANGENFÜHRUNGEN KLEIN. / KLEINE STANGGELEIDERS.

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ARPIONI E BASI / CAMS AND KEEPERS. /
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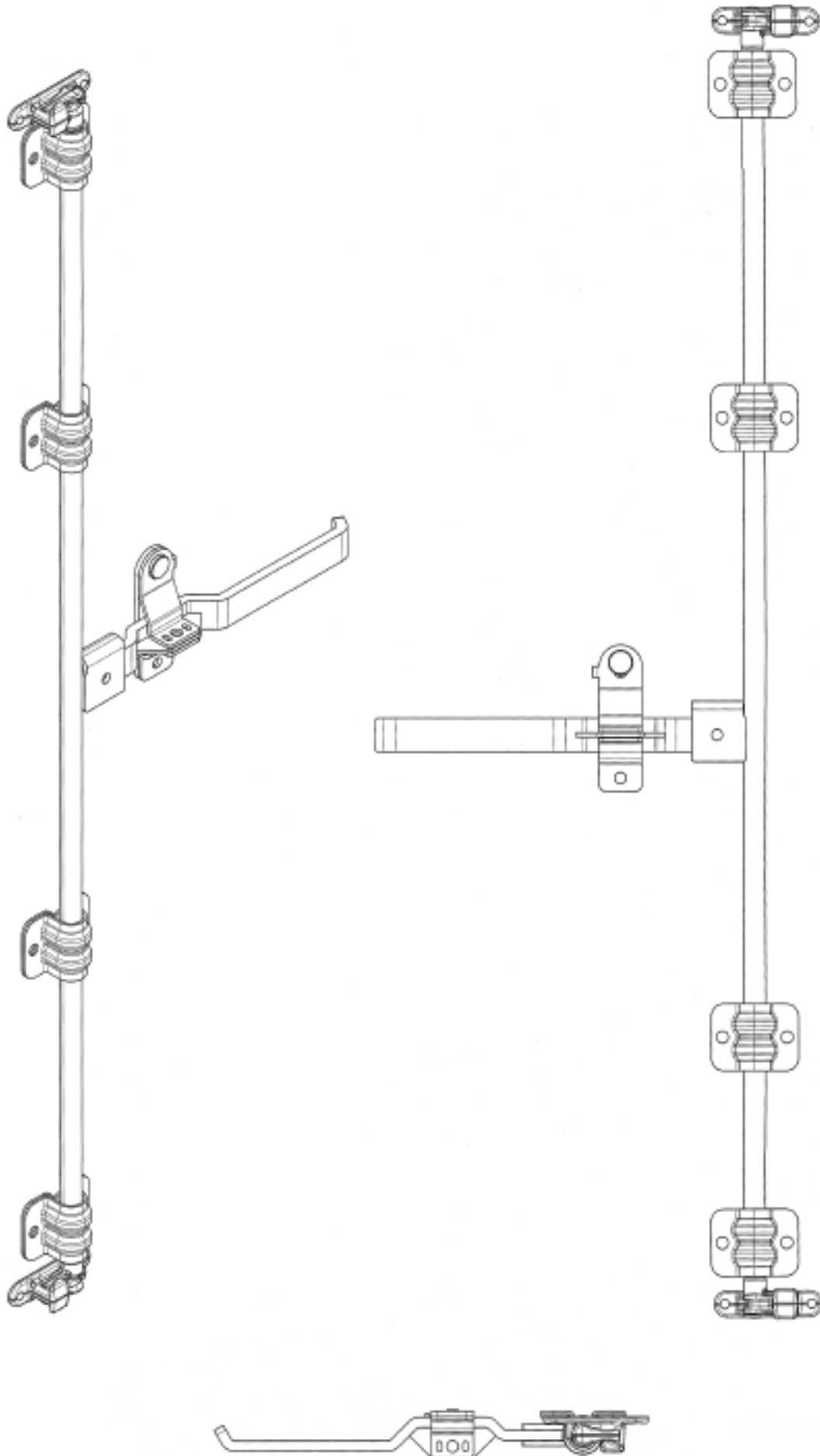
Ø16



Ø16

ASSIEME CHIUSURA ESTERNA A LEVA PIATTA / ASSEMBLY EXTERNAL LOCKING GEAR WITH STRAIGHT LEVER.
/ ENSEMBLE DE LA CRÉMONE EN APPLIQUE AVEC POIGNÉE PLAT / KOMPOSITION AUSSENLIEGENDER VER-
SCHLÜSSEN MIT RECHTEN HANDEBEL. / COMPOSITIE OPBOUWSLUITING MET RECHTE HANDGREEP.

D.M.G. Industrie 



INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	ZINCATO / ZINC PLATED / ACIER ZINGUEE / VERZINKT / VERZINKT
90D16110	90D26110

Leva piatta Ø 16 con
fissaggio.

Straight lever for lock Ø 16
with fixings.

Poignée plat Ø 16 avec son
châpe à souder complet.

Handhebel für Verschlüss
Ø 16 mit Befestigung.

Handgriep voor op-
bouwsluiting met beves-
tigingsdelen.

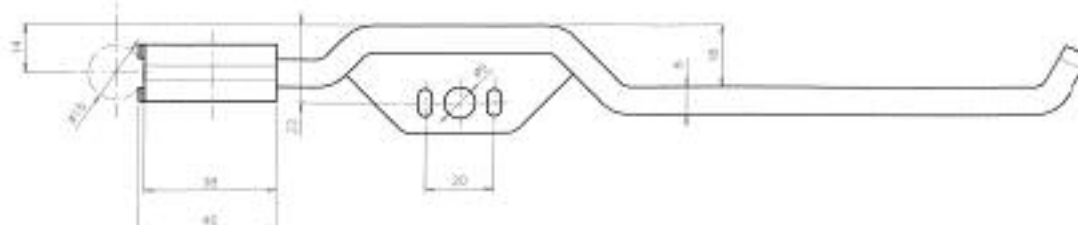
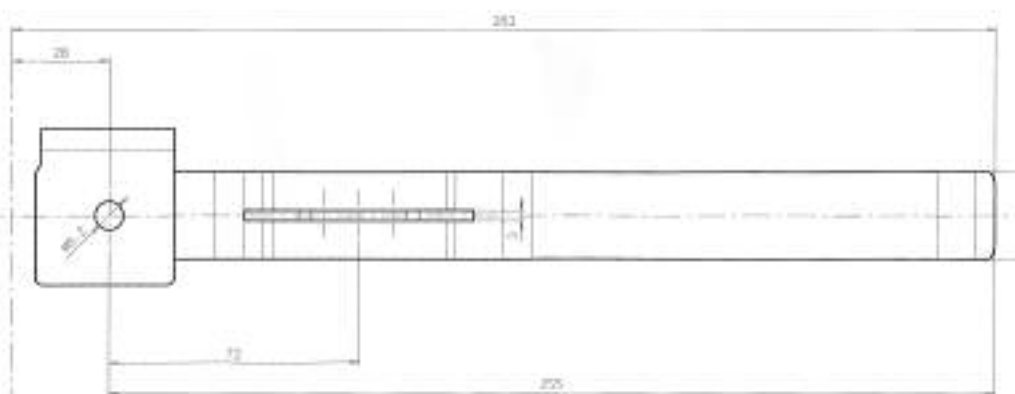
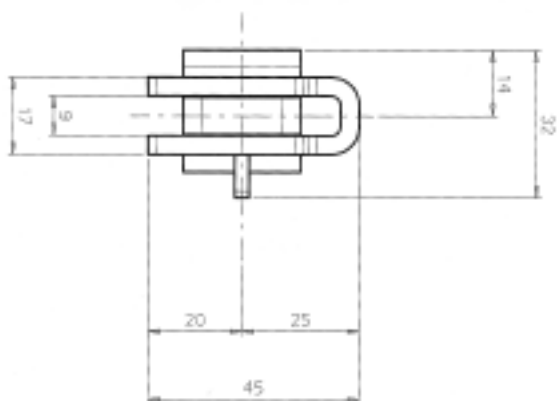
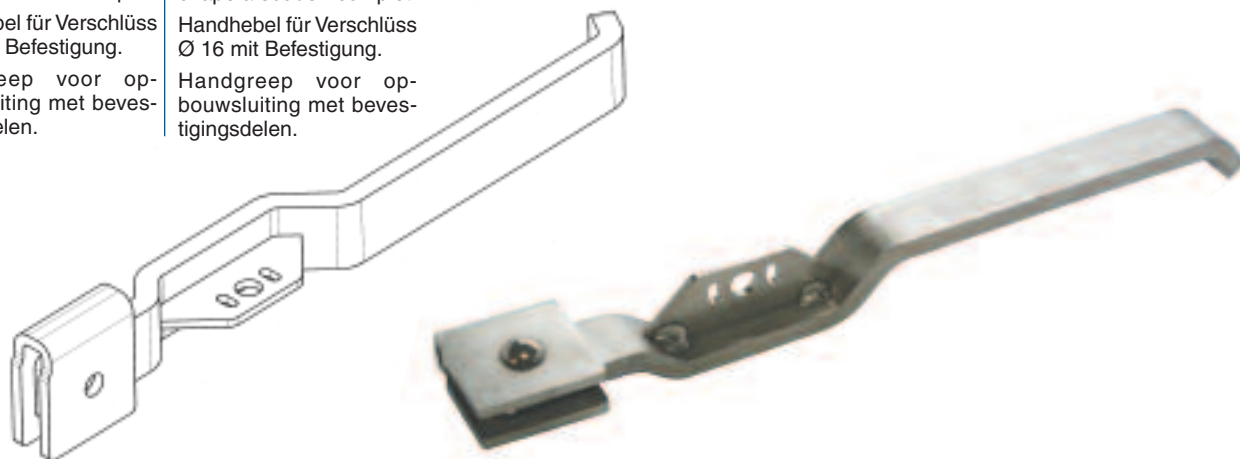
Leva piatta Ø 16 con
fissaggio.

Straight lever for lock Ø 16
with fixings.

Poignée plat Ø 16 avec son
châpe à souder complet.

Handhebel für Verschlüss
Ø 16 mit Befestigung.

Handgriep voor op-
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INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90S16110	90S26110

Blocco per leva piatta
Ø 16 con perno.

Leverstay for straight
lever Ø 16 lock
complete with bolt.

Verrou pour poignée
plat Ø 16 avec boulon.

Haubenfalle für
Rechten Handhebel des
Ø 16 Verschlusses mit
Bolzen.

Handgreek houder voor
rechte handgreek
tbv Ø 16 opbouwsluit-
ing met bout.

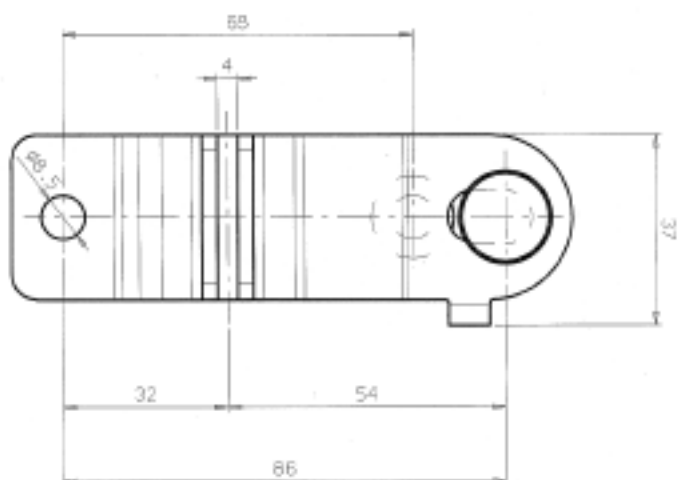
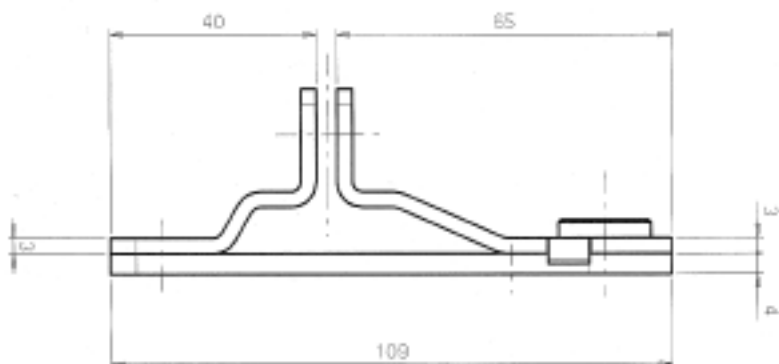
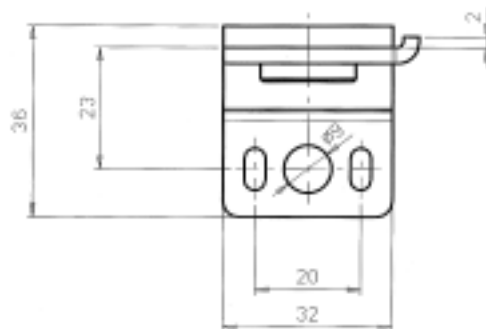
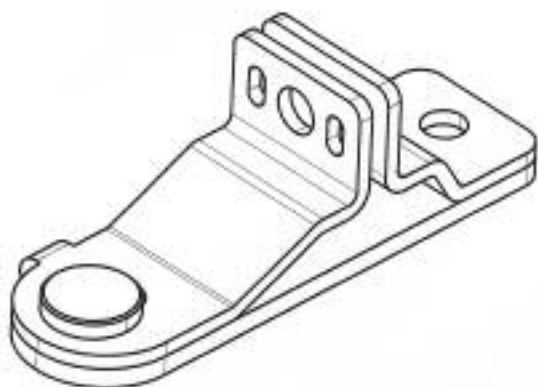
Blocco per leva piatta
Ø 16 con perno.

Leverstay for straight
lever Ø 16 lock
complete with bolt.

Verrou pour poignée
Ø 16 avec boulon.

Haubenfalle für
Rechten Handhebel des
Ø 16 Verschlusses mit
Bolzen.

Handgreek houder voor
rechte handgreek
tbv Ø 16 opbouwsluit-
ing met bout.



ARPIONI E BASI / CAMS AND
KEEPERS / PÈNE ET GÂCHE /
SCHLISSHAKEN UND
HALTER / NOKSTUKKEN
EN NOKSTUKHOUDERS.

FISSAGGI / CRANKED
RODGUIDES / GRANDS
GUIDES, OUI OU NON
DEPORTÉS / STANGEN-
FÜHRUNGEN GEKRÖPFT /
GEBOGEN STANGGELEI-
DERS.

FISSAGGI / SMALL TUBE-SUPPORT. /
PETIT GUIDE / STANGENFÜHRUNGEN
KLEIN. / STANGGELEIDERS KLEIN.

LEVA TRIANGOLARE
TRIANGLE-LEVER.
POIGNÉE TRIANGULAIRE
TRIANGEL-HANDHEBEL.
DRIEHOEK-HANDGREEP.

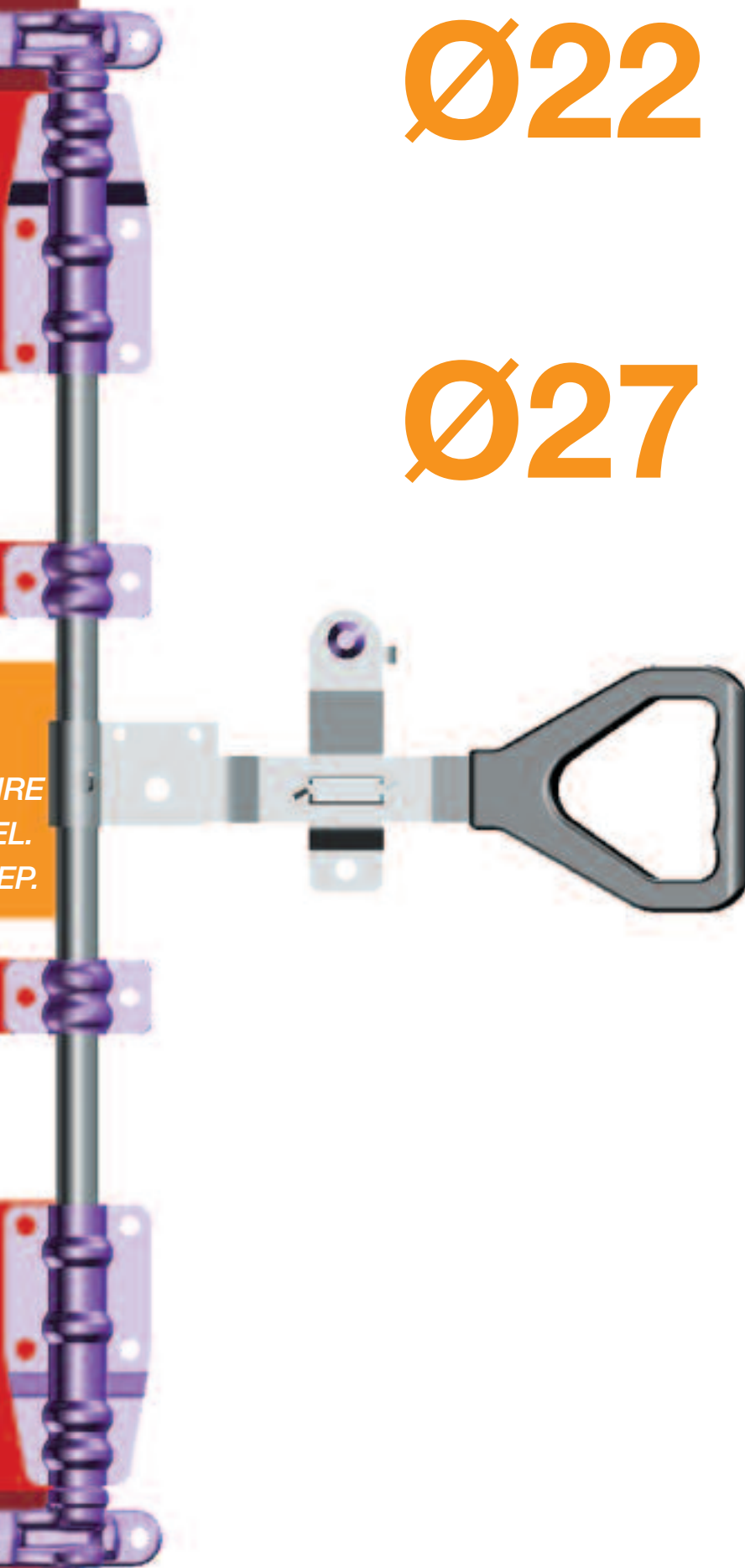
FISSAGGI / SMALL TUBE-SUPPORT. /
PETIT GUIDE / STANGENFÜHRUNGEN
KLEIN. / STANGGELEIDERS KLEIN.

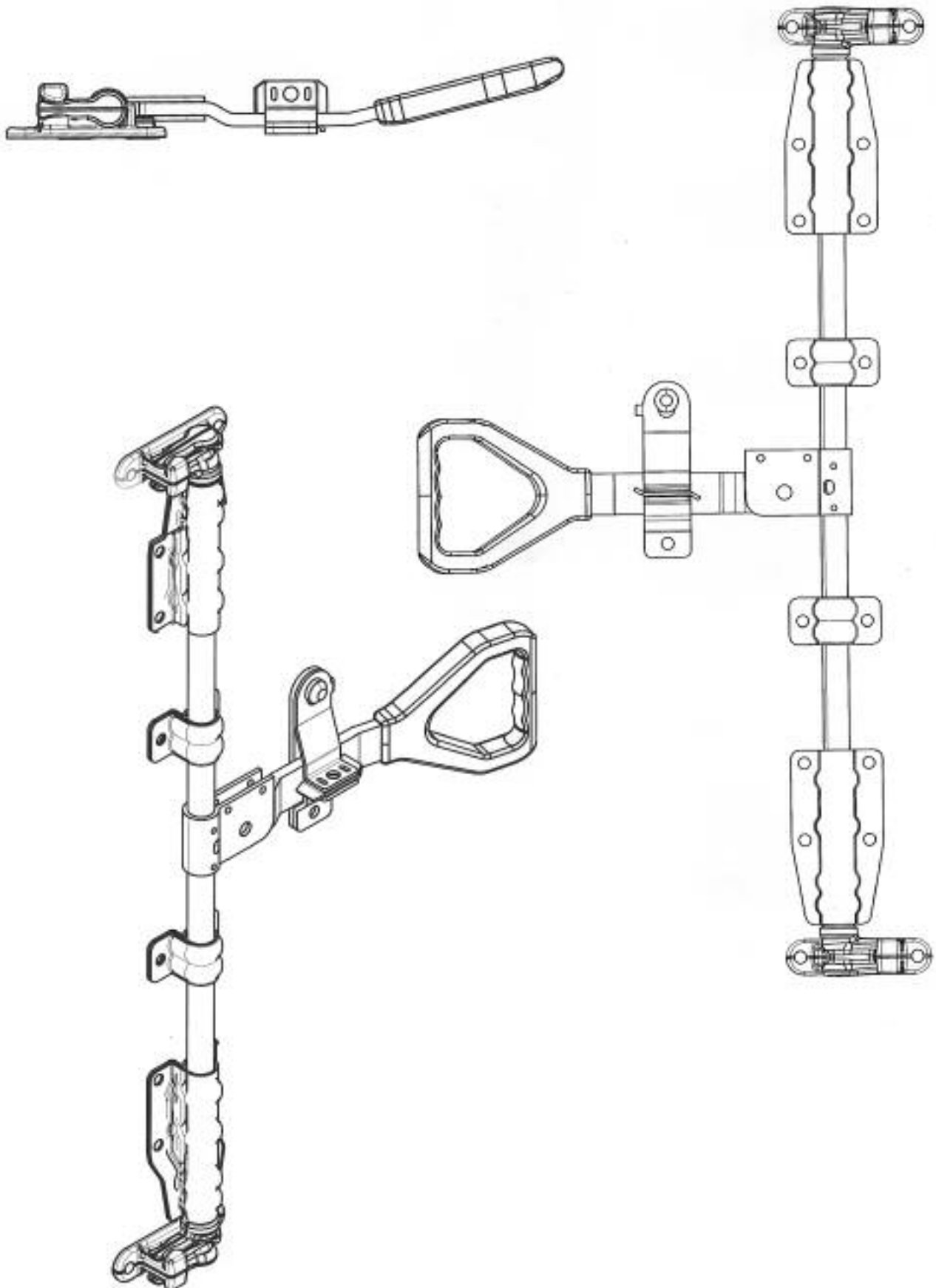
FISSAGGI / CRANKED
RODGUIDES / GRANDS
GUIDES, OUI OU NON
DEPORTÉS / STANGEN-
FÜHRUNGEN GEKRÖPFT /
GEBOGEN STANGGELEI-
DERS.

ARPIONI E BASI / CAMS
AND KEEPERS / PÈNE ET
GÂCHE / SCHLISSHAKEN
UND HALTER / NOKSTUKKEN
EN NOKSTUKHOUDERS.

Ø22

Ø27





INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL /RVS	INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL /RVS
90D16000	90D16100

Leva triangolare completa di fissaggi per tubo Ø 22.

Triangle-Lever complete with fixings for tube Ø 22.

Poignée triangulaire complet avec son chape pour tube Ø 22.

Triangel-Handhebel komplett mit Befestigung zum Rohr Ø 22.

Driehoek-handgreep compleet met bevestigingsdelen aan buis Ø 22.

Leva triangolare completa di fissaggi per tubo Ø 27.

Triangle-Lever complete with fixings for tube Ø 27.

Poignée triangulaire complet avec son chape pour tube Ø 27.

Triangel-Handhebel komplett mit Befestigung zum Rohr Ø 27.

Driehoek-handgreep compleet met bevestigingsdelen aan buis Ø 27.

ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90D26000

Leva triangolare completa di fissaggi per tubo Ø 22.

Triangle-Lever complete with fixings for tube Ø 22.

Poignée triangulaire complet avec son chape pour tube Ø 22.

Triangel-Handhebel komplett mit Befestigung zum Rohr Ø 22.

Driehoek-handgreep compleet met bevestigingsdelen aan buis Ø 22.

ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90D26100

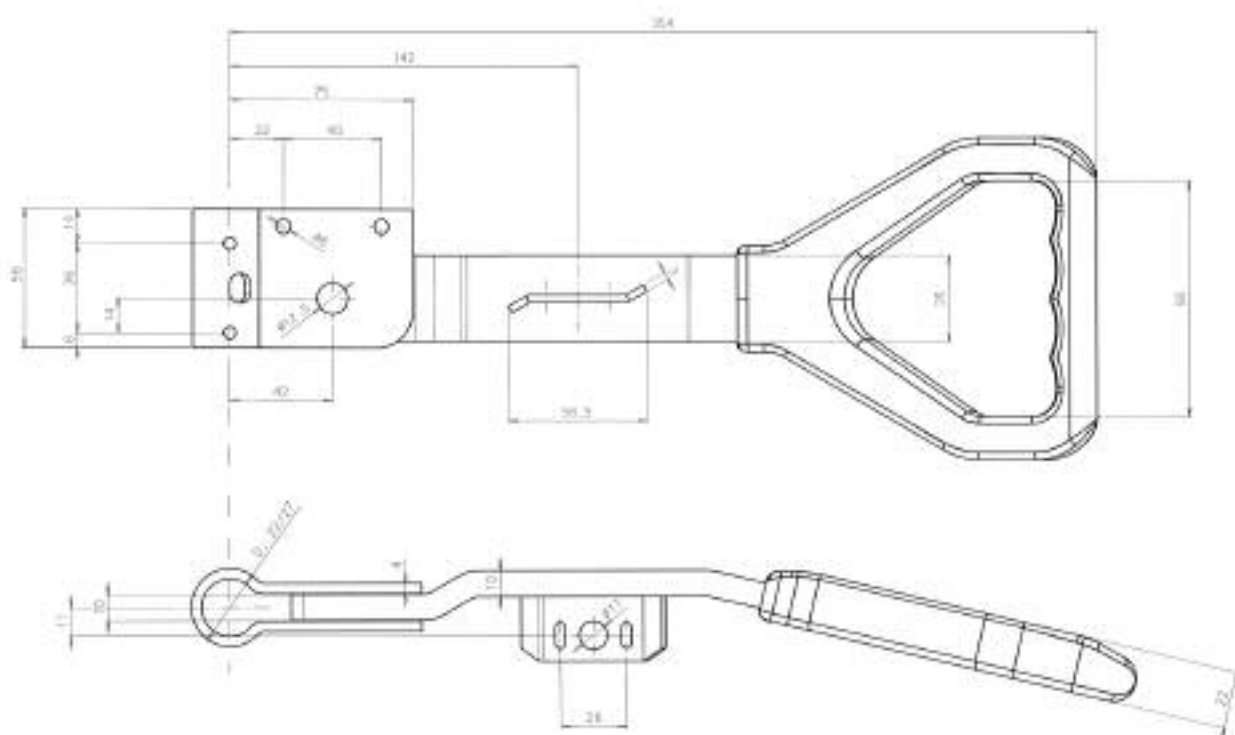
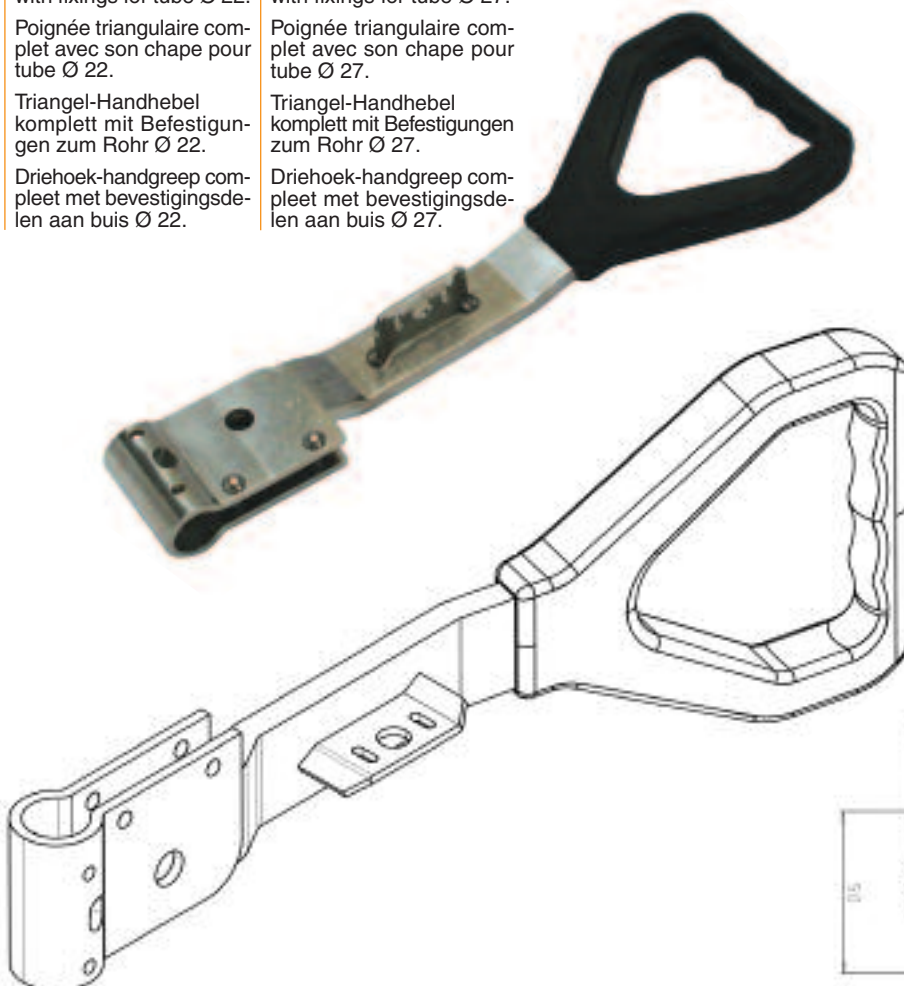
Leva triangolare completa di fissaggi per tubo Ø 27.

Triangle-Lever complete with fixings for tube Ø 27.

Poignée triangulaire complet avec son chape pour tube Ø 27.

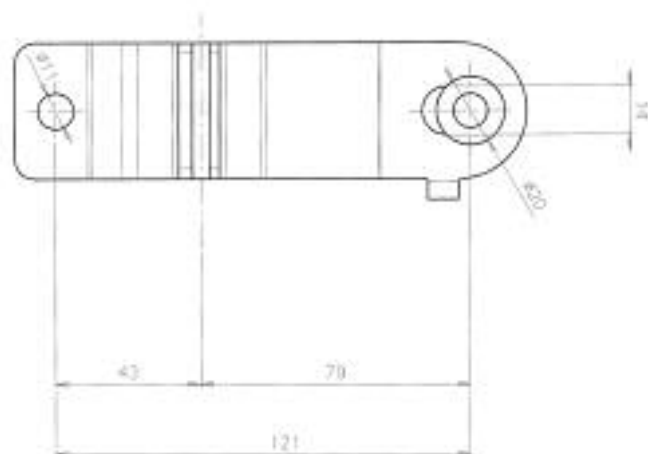
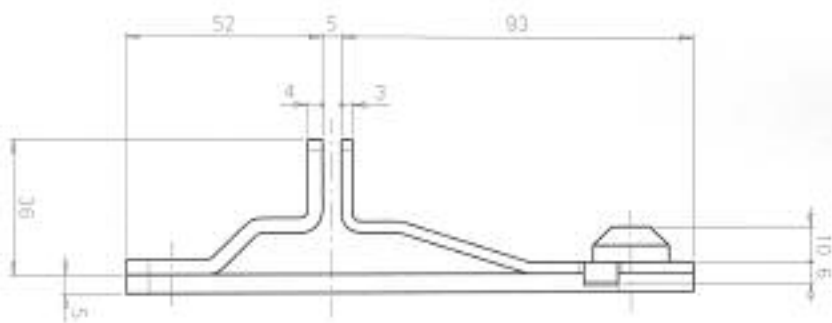
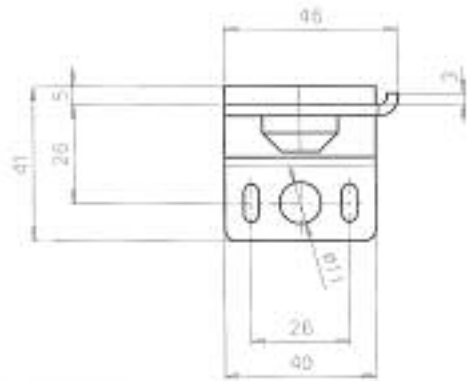
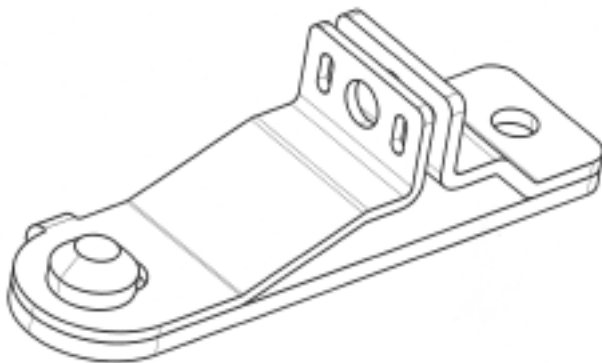
Triangel-Handhebel komplett mit Befestigung zum Rohr Ø 27.

Driehoek-handgreep compleet met bevestigingsdelen aan buis Ø 27.



INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90S16200	90S26200

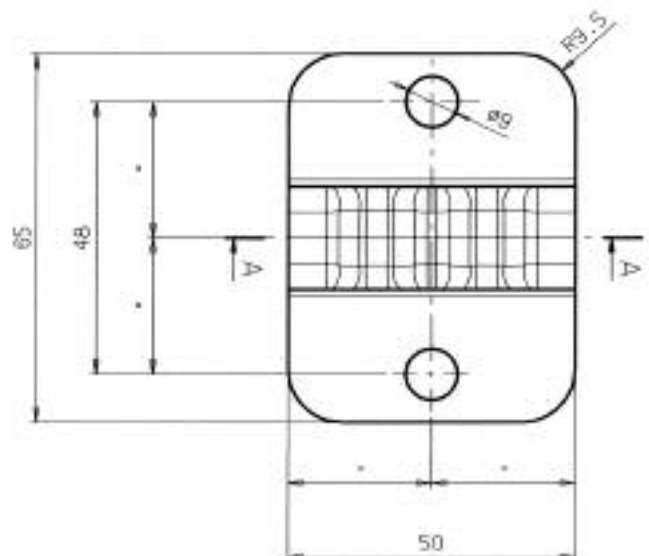
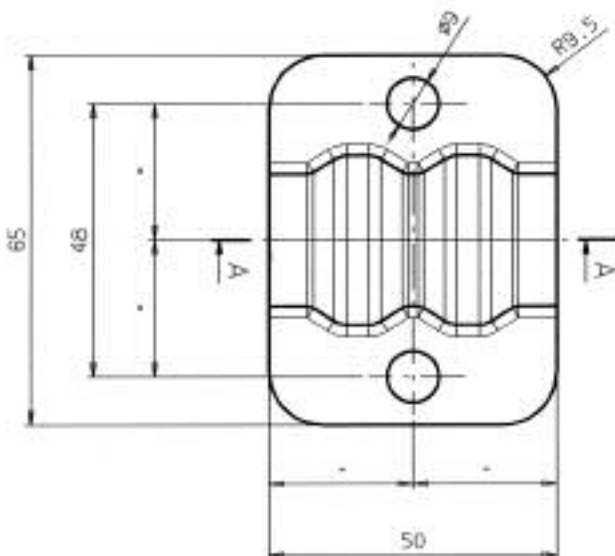
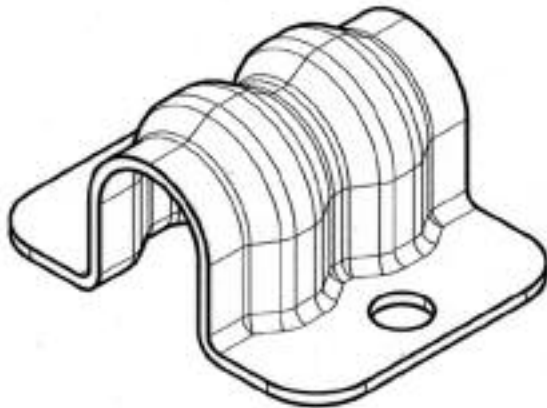
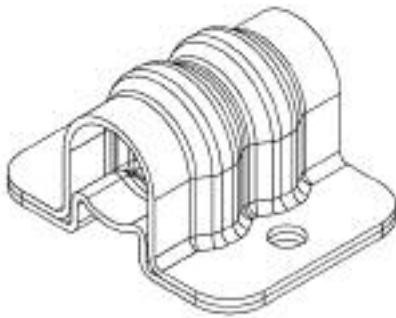
Blocco leva triangolare 22 / Ø 27. Leverstay for Triangle-Lever locks 22 / Ø 27. Verrou pour poignée tri- angulaire 22 / Ø 27. Haubenfalle für Triangel- Handhebel Verschlüssen Ø 22 / Ø 27. Handgriephouder voor driehoek-handgriep, sluitin- gen Ø22 / Ø 27.	Blocco leva triangolare 22 / Ø 27. Leverstay for Triangle-Lever locks 22 / Ø 27. Verrou pour poignée tri- angulaire 22 / Ø 27. Haubenfalle für Triangel- Handhebel Verschlüssen Ø 22 / Ø 27. Handgriephouder voor driehoek-handgriep, sluitin- gen Ø22 / Ø 27.
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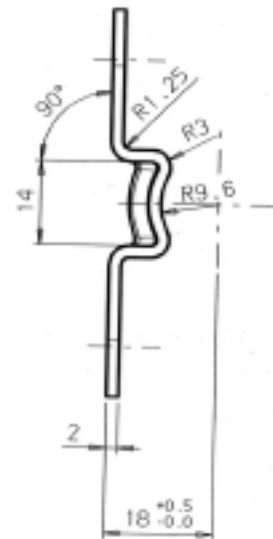
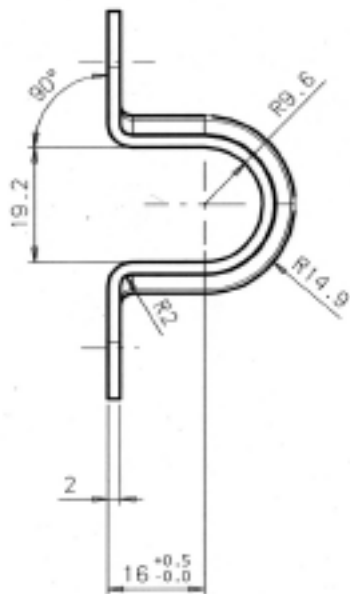
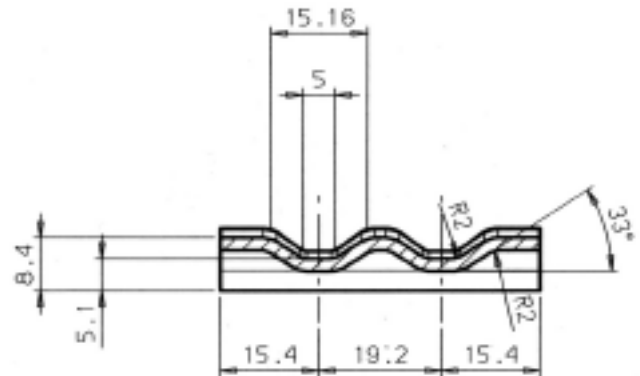
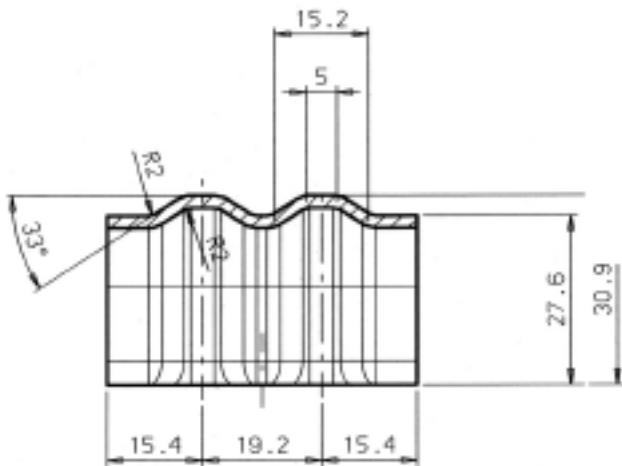


INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90F16112	90F26112

Fissaggio intermedio
o di testa per tubo Ø 16.
Small tube-support for
tube Ø 16.
Petit guide pour
tube Ø 16
Kleine Stangenführung für
Rohr Ø 16
Kleine stanggeleider tbv
buis Ø 16.

Fissaggio intermedio
o di testa per tubo Ø 16.
Small tube-support for
tube Ø 16.
Petit guide pour
tube Ø 16
Kleine Stangenführung für
Rohr Ø 16
Kleine stanggeleider tbv
buis Ø 16.





PLASTICA / PLASTIC RING / PLASTIQUE /
KUNSTSTOFF-BUCHSE / KUNSTSTOF-INLEGRING

40C46180

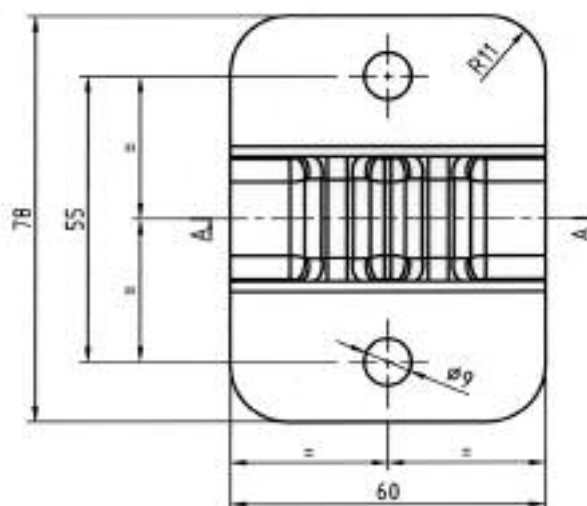
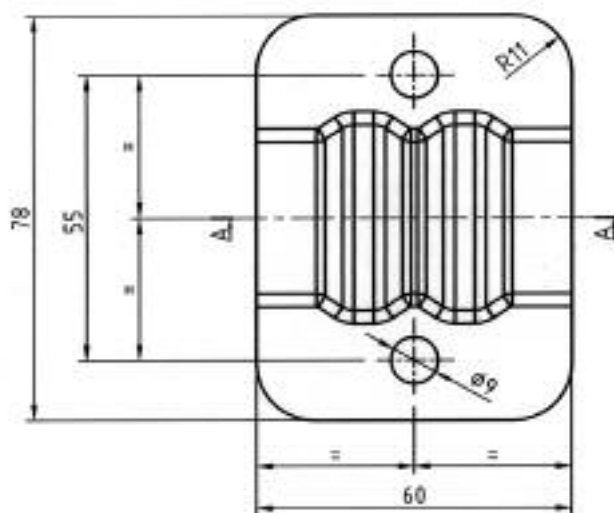
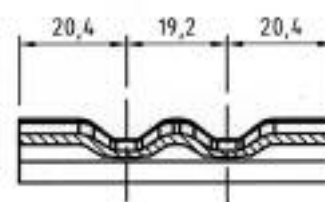
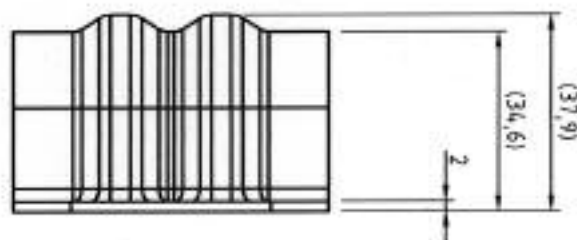
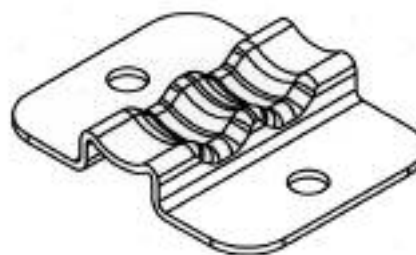
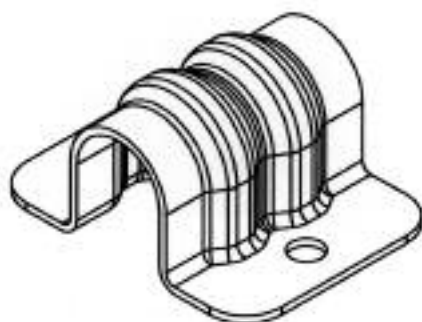
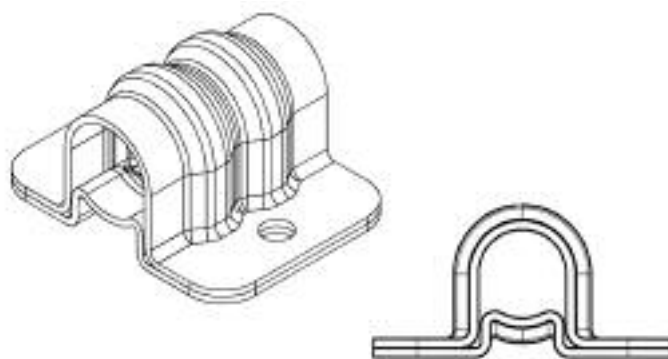
Anello di tenuta per tubo Ø 16.
Plastic ring for tube Ø 16
Anneau pour guide tube Ø 16.
Kunststoff-Buchse für Rohr Ø 16.
Kunststof-Inlegring voor buis Ø 16.



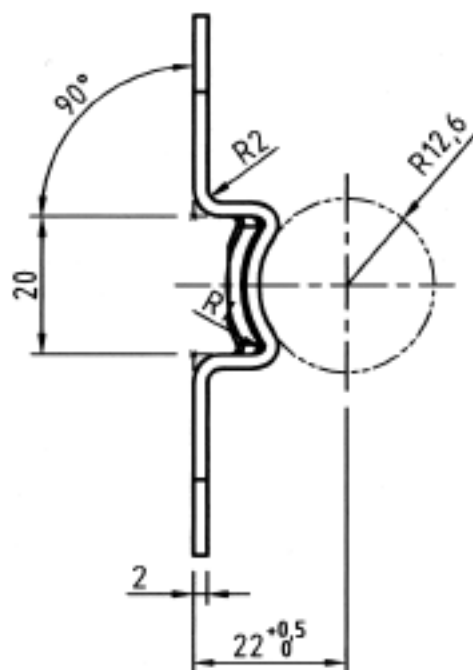
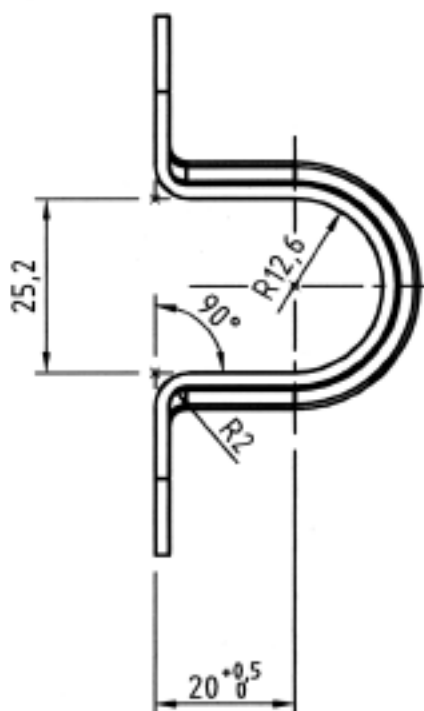
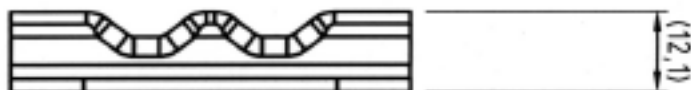
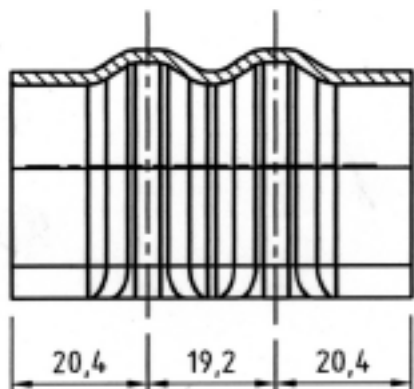
INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90F16222/1	90F26222/1

Fissaggio intermedio
per tubo Ø 22.
Small tube-support for
tube Ø 22.
Petite guide pour
tube Ø 22.
Kleine Stangenführung
für Rohr Ø 22.
Kleine stanggeleider tbv
buis Ø 22.

Fissaggio intermedio
per tubo Ø 22.
Small tube-support for
tube Ø 22.
Petite guide pour
tube Ø 22.
Kleine Stangenführung
für Rohr Ø 22.
Kleine stanggeleider tbv
buis Ø 22.



D.M.G. Industrie 



PLASTICA / PLASTIC RING / PLASTIQUE / KUNSTSTOFF-BUCHSE / KUNSTSTOF-INLEGRING

40C46280

Anello di tenuta per tubo Ø 22.

Plastic ring for tube Ø 22.

Anneau pour guide tube Ø 22.

Kunststoff-Buchse für Rohr Ø 22.

Kunststof-Inlegring voor buis Ø 22.



INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90F16222/2	90F26222/2
DOPPIO FORO / DOUBLE FIX- ING HOLES / DOUBLES TROUS / DOPPELTE LÖCHER / DUBBELE BEVESTIGINGSGATEN	DOPPIO FORO / DOUBLE FIX- ING HOLES / DOUBLES TROUS / DOPPELTE LÖCHER / DUBBELE BEVESTIGINGSGATEN

Fissaggio intermedio
o di testa per tubo Ø 22.

Small tube-support for
tube Ø 22.

Petite guide pour
tube Ø 22.

Kleine Stangenführung für
Rohr Ø 22

Kleine stangeleider tbv
buis Ø 22.

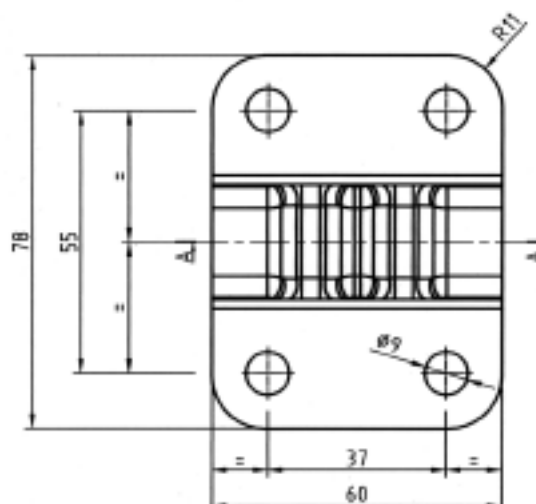
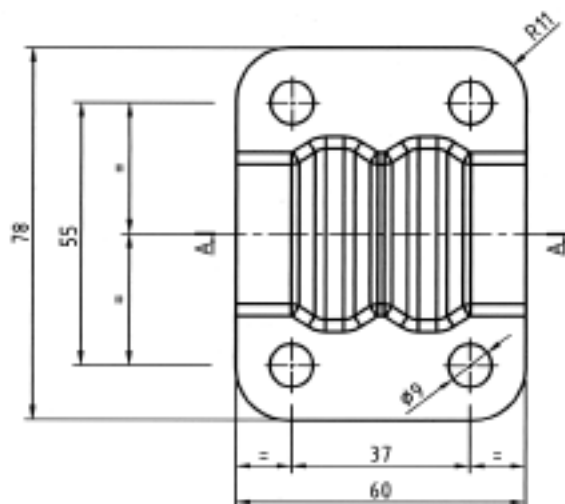
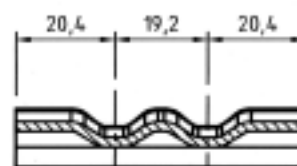
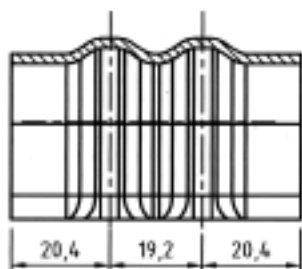
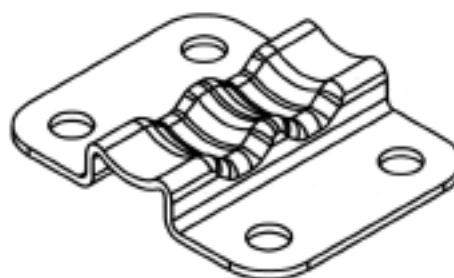
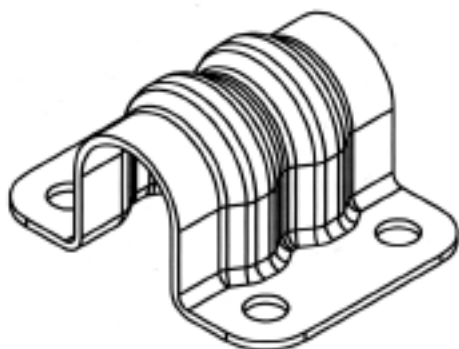
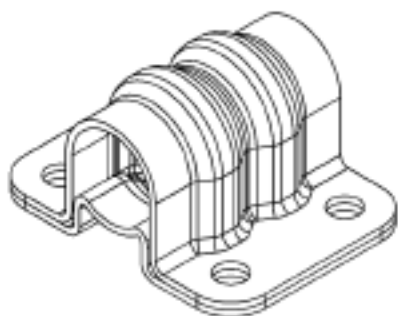
Fissaggio intermedio
o di testa per tubo Ø 22.

Small tube-support for
tube Ø 22.

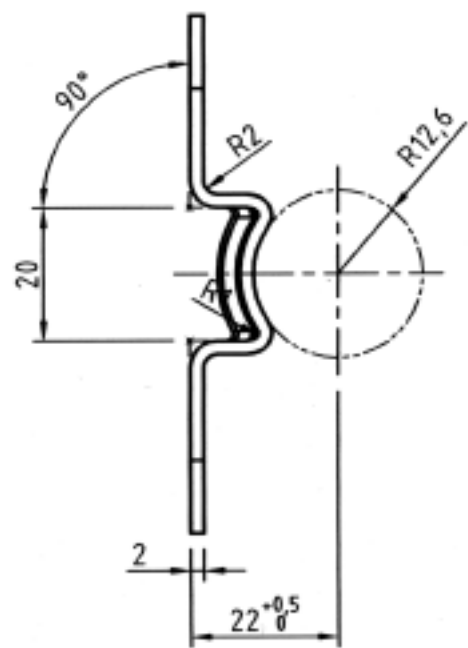
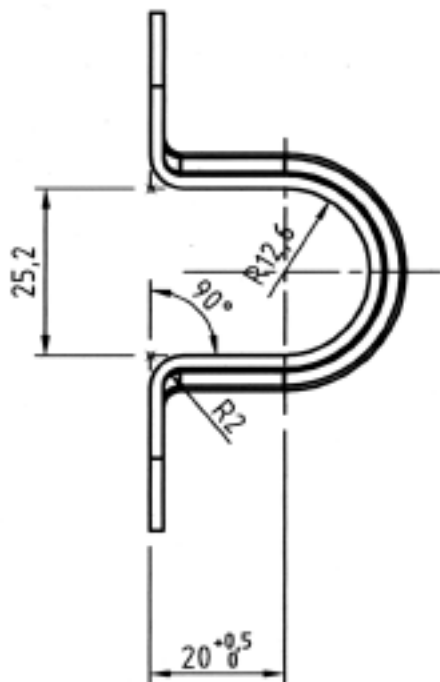
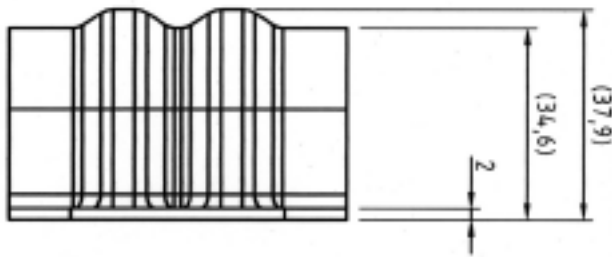
Petite guide pour
tube Ø 22.

Kleine Stangenführung für
Rohr Ø 22

Kleine stangeleider tbv
buis Ø 22.



D.M.G. Industrie 



PLASTICA / PLASTIC RING / PLASTIQUE /
KUNSTSTOFF-BUCHSE / KUNSTSTOF-INLEGRING

40C46280

Anello di tenuta per tubo Ø 22.
Plastic ring for tube Ø 22.
Anneau pour guide tube Ø 22.
Kunststoff-Buchse für Rohr Ø 22.
Kunststof-Inlegring voor buis Ø 22.



INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90F16212	90F26212

Fissaggio di testa
con scavalamento
guarnizione per tubo Ø 22.

Cranked tube-support for
tube Ø 22.

Guide déporté pour
tube Ø 22.

Gekröpfte Stangenführung
für Rohr Ø 22.

Gebogen stangengeleider
tbv buis Ø 22.

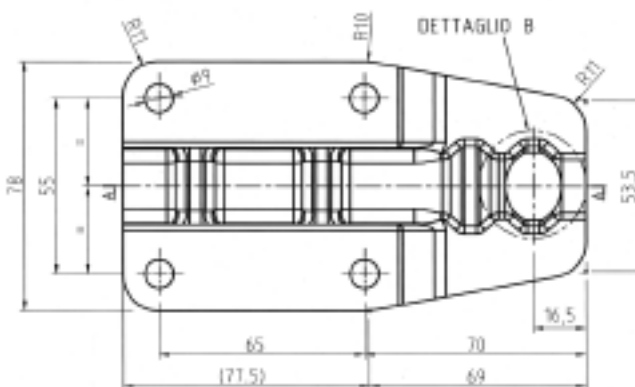
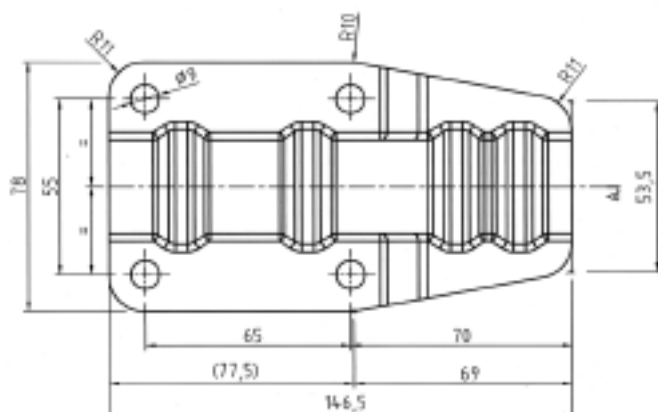
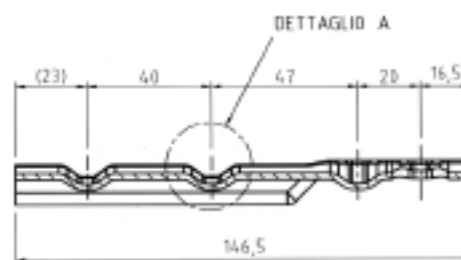
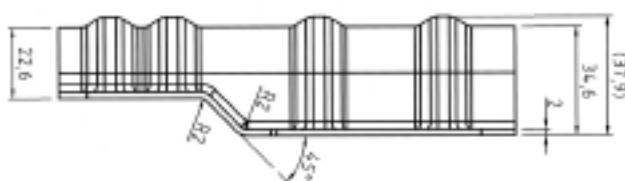
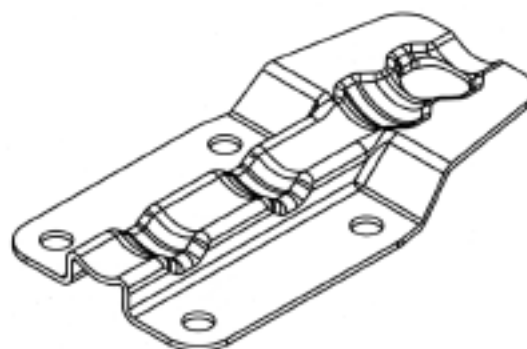
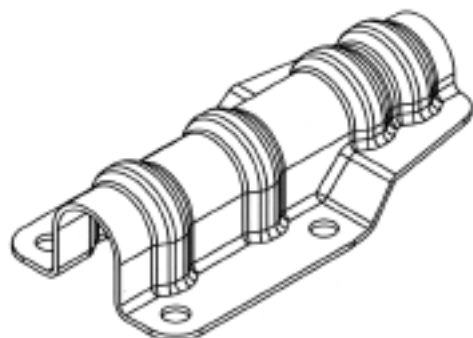
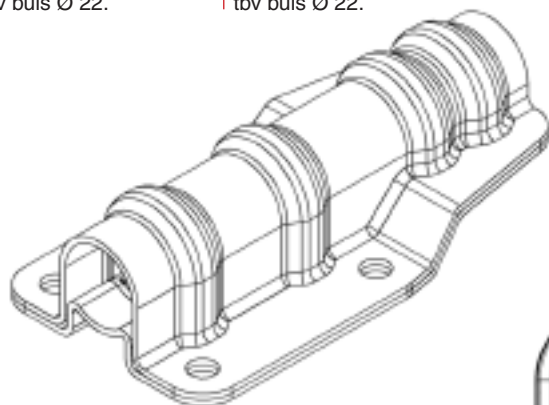
Fissaggio di testa
con scavalamento
guarnizione per tubo Ø 22.

Cranked tube-support for
tube Ø 22.

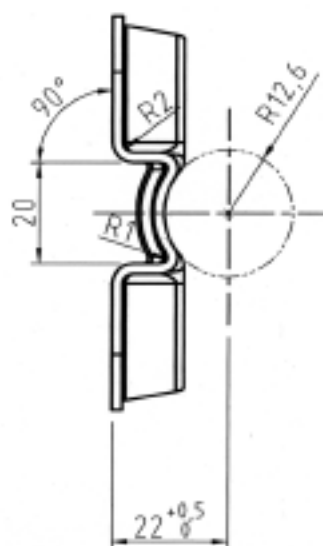
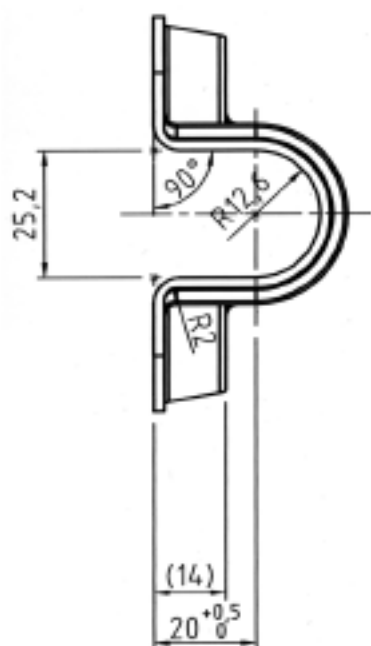
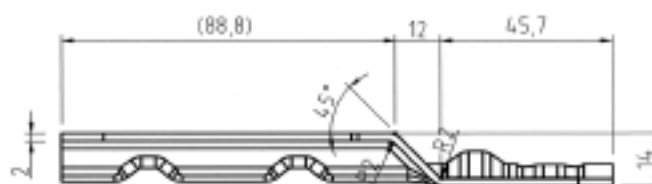
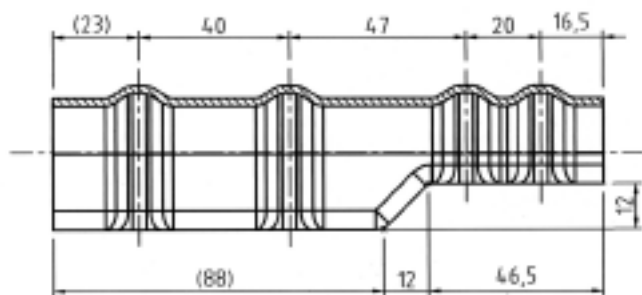
Guide déporté pour
tube Ø 22.

Gekröpfte Stangenführung
für Rohr Ø 22.

Gebogen stangengeleider
tbv buis Ø 22.



D.M.G. Industrie 



PLASTICA / PLASTIC RING / PLASTIQUE /
KUNSTSTOFF-BUCHSE / KUNSTSTOF-INLEGRING

40C46280

Anello di tenuta per tubo Ø 22.

Plastic ring for tube Ø 22.

Anneau pour guide tube Ø 22.

Kunststoff-Buchse für Rohr Ø 22.

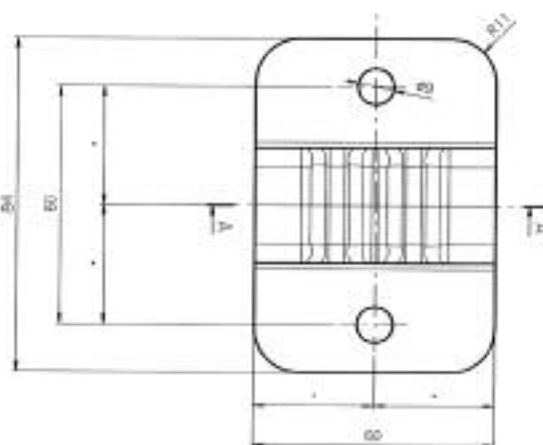
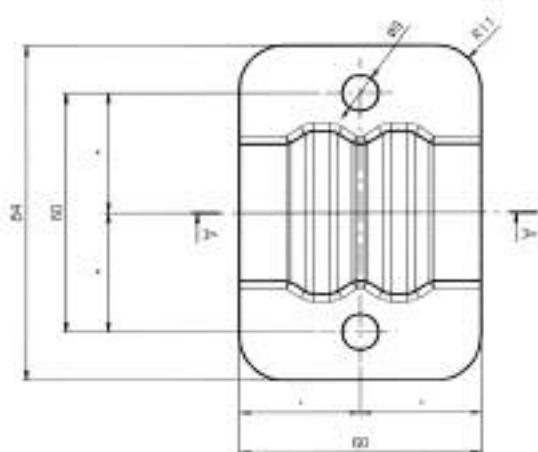
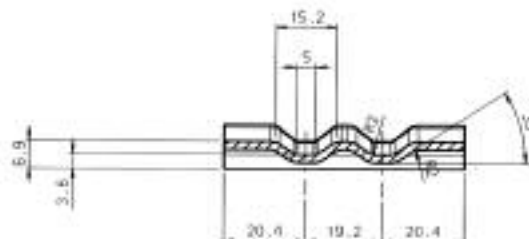
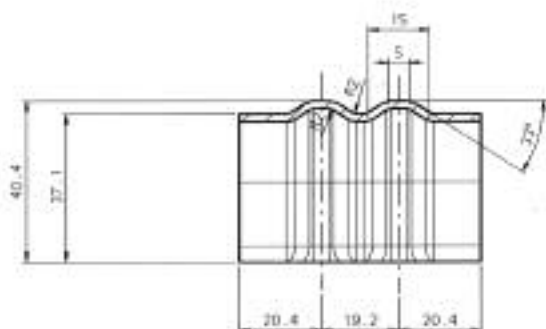
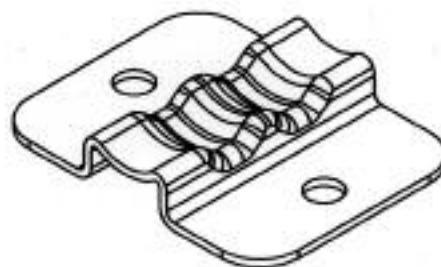
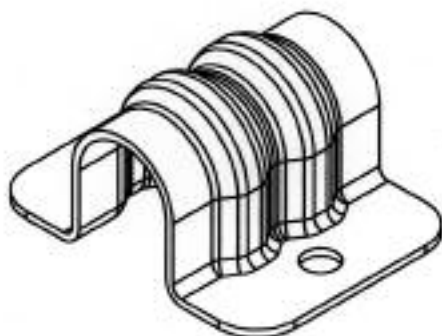
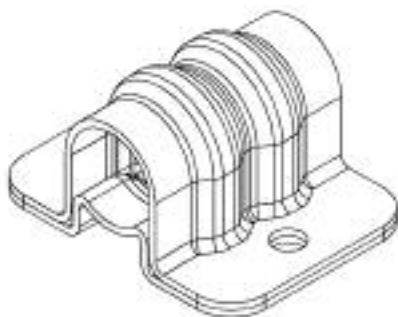
Kunststof-Inlegring voor buis Ø 22.

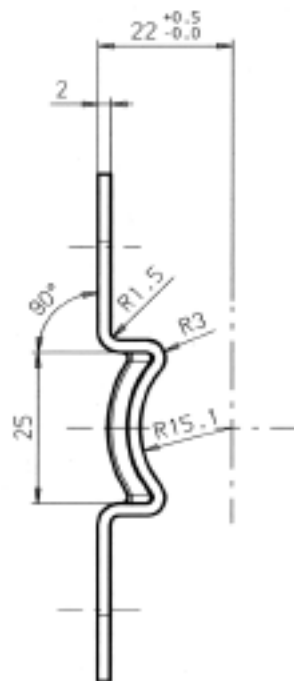
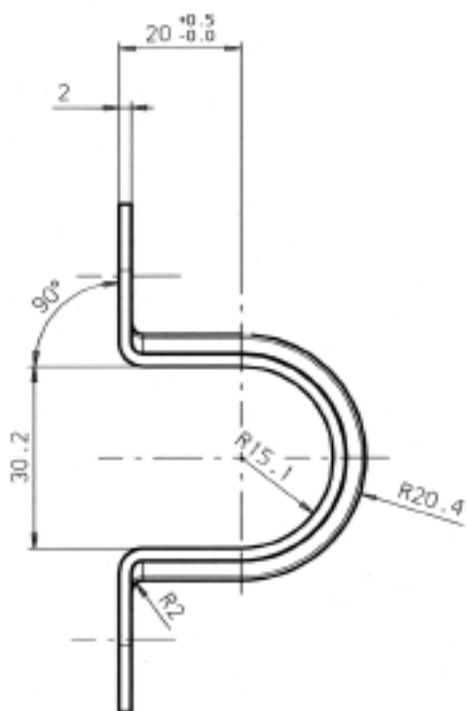


INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90F16322/1	90F26322/1

Fissaggio intermedio
per tubo Ø 27.
Small tube-support for
tube Ø 27.
Petite guide pour
tube Ø 27.
Kleine Stangenführung
für Rohr Ø 27.
Kleine stanggeleider tbv
buis Ø 27.

Fissaggio intermedio
per tubo Ø 27.
Small tube-support for
tube Ø 22.
Petite guide pour
tube Ø 27.
Kleine Stangenführung
für Rohr Ø 27.
Kleine stanggeleider tbv
buis Ø 27.





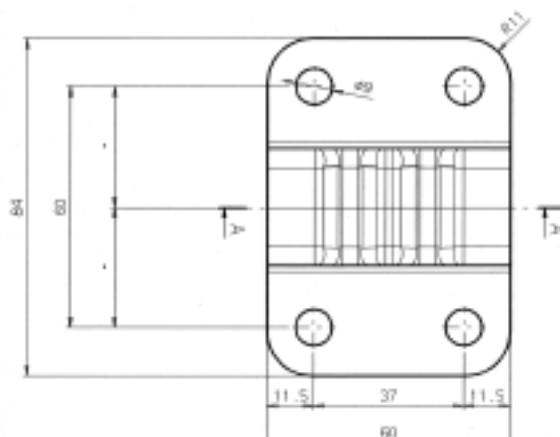
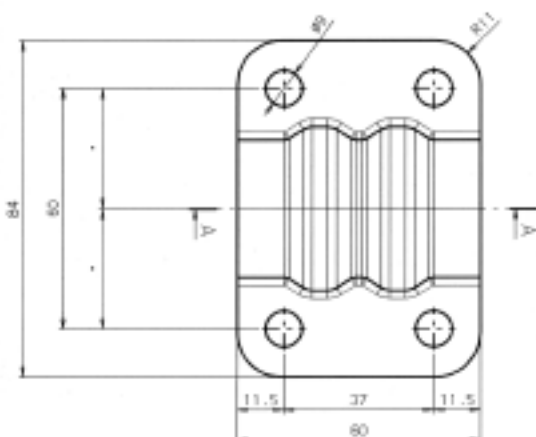
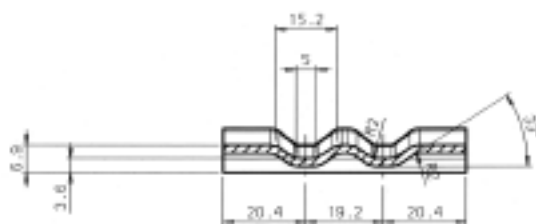
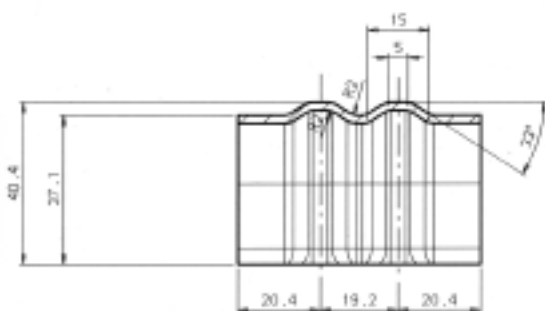
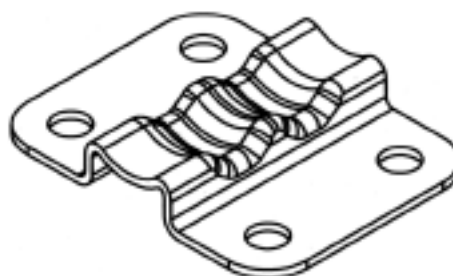
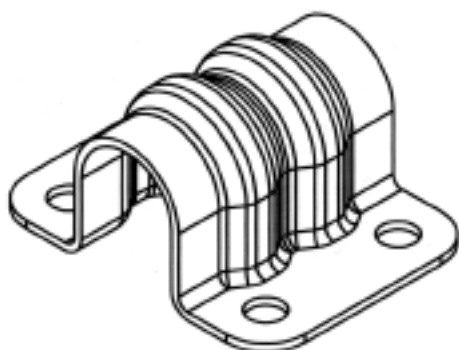
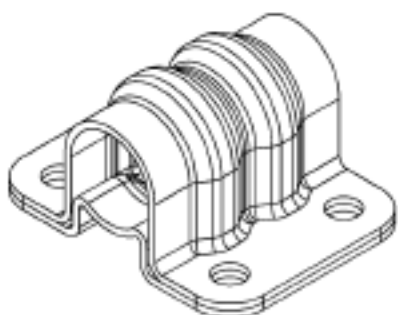
PLASTICA / PLASTIC RING / PLASTIQUE /
KUNSTSTOFF-BUCHSE / KUNSTSTOF-INLEGRING

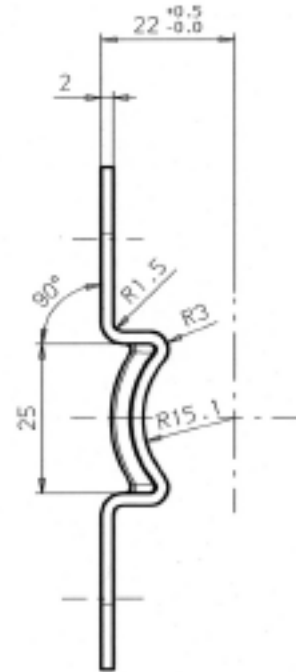
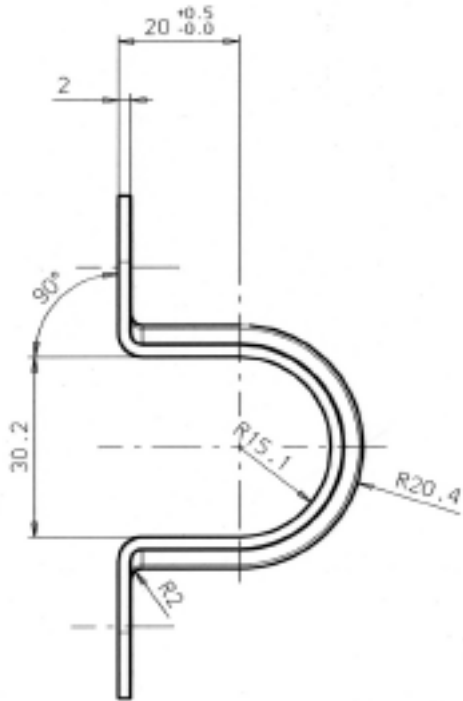
40C46380

Anello di tenuta per tubo Ø 27.
Plastic ring for tube Ø 27.
Anneau pour guide tube Ø 27.
Kunststoff-Buchse für Rohr Ø 27.
Kunststof-Inlegring voor buis Ø 27.



INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90F16322/2	90F26322/2
DOPPIO FORO / DOUBLE FIX- ING HOLE / DOUBLES TROUS / DOPPELTE LÖCHER / DUBBELE BEVESTIGINGSGATEN	DOPPIO FORO / DOUBLE FIX- ING HOLE / DOUBLES TROUS / DOPPELTE LÖCHER / DUBBELE BEVESTIGINGSGATEN
Fissaggio intermedio o di testa per tubo Ø 27.	Fissaggio intermedio o di testa per tubo Ø 27.
Small tube-support for tube Ø 27.	Small tube-support for tube Ø 27.
Petite guide pour tube Ø 27.	Petite guide pour tube Ø 27.
Kleine Stangenführung für Rohr Ø 27.	Kleine Stangenführung für Rohr Ø 27.
Kleine stangeleider tbv buis Ø 27.	Kleine stangeleider tbv buis Ø 27.





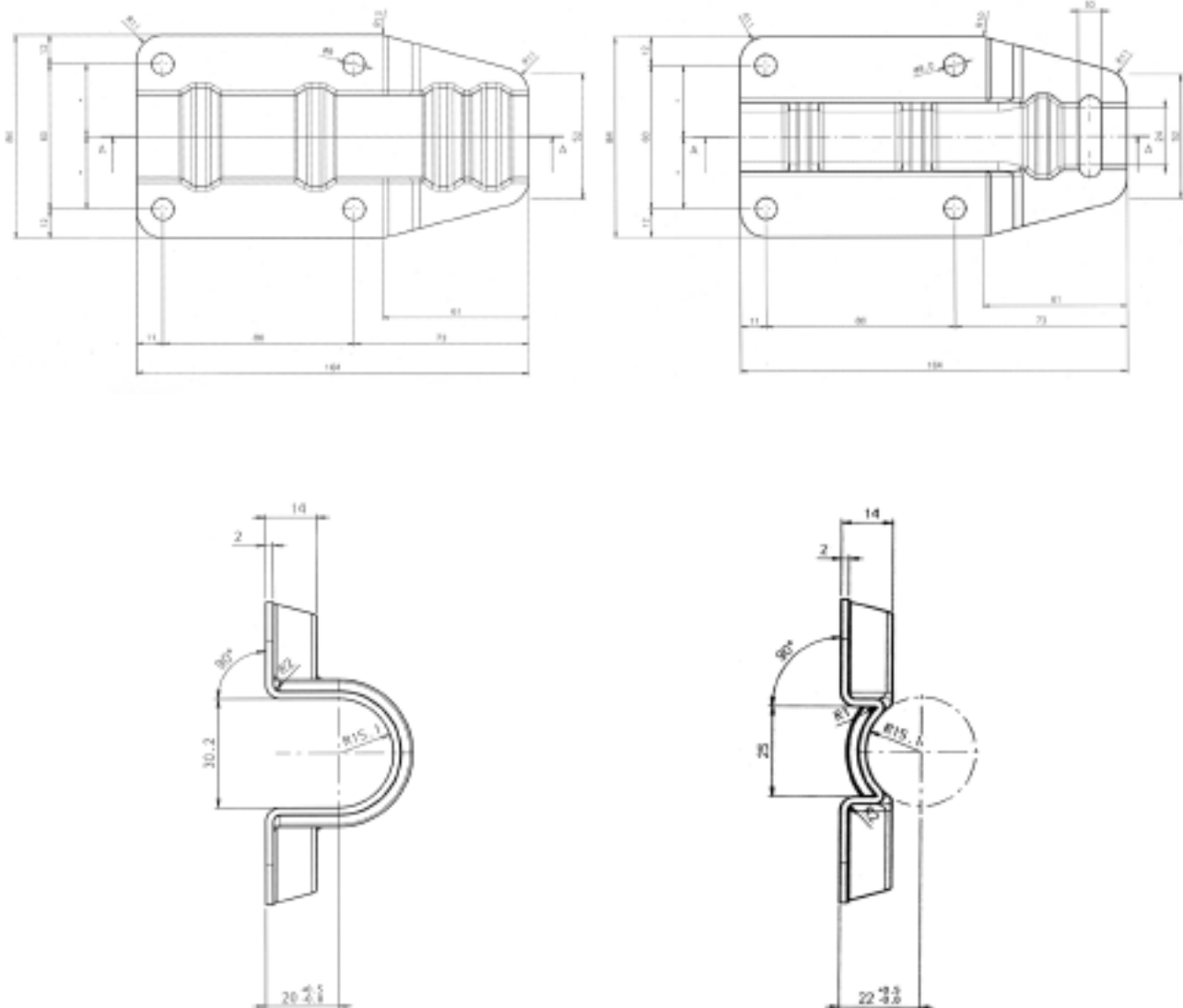
PLASTICA / PLASTIC RING / PLASTIQUE / KUNSTSTOFF-BUCHSE / KUNSTSTOF-INLEGRING

40C46380

Anello di tenuta per tubo Ø 27.
 Plastic ring for tube Ø 27.
 Anneau pour guide tube Ø 27.
 Kunststoff-Buchse für Rohr Ø 27.
 Kunststof-Inlegring voor buis Ø 27.



D.M.G. Industrie 



PLASTICA / PLASTIC RING / PLASTIQUE /
KUNSTSTOFF-BUCHSE / KUNSTSTOF-INLEGRING

40C46380

Anello di tenuta per tubo Ø 27.

Plastic ring for tube Ø 27.

Anneau pour guide tube Ø 27.

Kunststoff-Buchse für Rohr Ø 27.

Kunststof-Inlegring voor buis Ø 27.



Le Geometrie degli ARPIONI - RISCONTRI DMG Industrie ad azione facilitata

La chiusura di una porta, con compressione della relativa guarnizione di tenuta, avviene mediante rotazione di una maniglia che fa ruotare, attorno al proprio asse, un'asta munita alle estremità di due arpioni che si impegnano nelle corrispondenti sagome fisse.

Durante la manovra di chiusura (ed, in minor grado, anche di apertura) lo sforzo impresso alla maniglia, passa, sotto forma di momento torcente, ai due arpioni all'estremità dell'asta. Il profilo di questi arpioni, che si impegnano nelle corrispondenti sagome, trasforma il momento torcente impresso in una coppia di forze, una perpendicolare all'asta e l'altra perpendicolare al profilo coniugato arpione-sagoma fissa (la perpendicolarità rispetto alla tangente alla superficie di contatto è rigorosa quando si trascuri l'attrito di contatto).

La forza che passa dalla sagoma fissa all'arpione, e quindi all'asta, è poi la forza destinata a chiudere la porta incernierata all'altra estremità e perciò a comprimere adeguatamente la guarnizione preposta alla tenuta. Partendo dunque da questa forza esercitata come reazione della guarnizione alla sua stessa compressione, per l'equilibrio dei momenti esercitati attraverso l'asta, si può così risalire allo sforzo che deve essere applicato alla maniglia.

La scelta dei profili coniugati arpione-sagoma fissa, influenzando direttamente il braccio della coppia applicata, determina di conseguenza lo sforzo da esercitare sulla maniglia. Man mano che la guarnizione di tenuta viene compressa, la sua reazione aumenta in modo pressoché proporzionale con il grado di schiacciamento (deformazione). Onde non essere costretti ad esercitare alla fine della chiusura uno sforzo molto più elevato ed, al tempo stesso, desiderosi di poter comunque apprezzare che tale sforzo sia crescente in quanto è istintivo attendersi uno sforzo in aumento con il procedere della chiusura, si deve, nella progettazione dei profili coniugati, poter utilizzare un profilo tale da garantire appunto il raggiungimento di tale scopo.

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Il perché dei vantaggi

DEFINIZIONE DEL PROFILO CONIUGATO

Un profilo che può rispondere ai requisiti di cui sopra è ad esempio un profilo a spirale di Archimede, dal nome del filosofo e matematico greco, della scuola di Euclide, che per primo ne formulò la costruzione geometrica. Tale profilo, per sviluppi non molto elevati come quelli considerati, può essere facilmente assimilato ad un profilo a spirale logaritmica, la cui equazione, espressa in termini di coordinate polari, è la seguente:

$$r = r_0 \cdot e^{m\alpha}$$

con r_0 ed m entrambi > 0 .

In Fig. 1 è mostrato graficamente lo sviluppo della curva ed il significato delle grandezze interessate.

In termini logaritmici l'equazione scritta assume la seguente espressione:

$$\ln \frac{r}{r_0} = m \cdot \alpha$$

Per $\alpha = 0$ risulta $r = r_0$, in quanto:

$$\ln \frac{r}{r_0} = \ln 1 = 0,$$

mentre il limite

$$\lim_{\alpha \rightarrow -\infty} r$$

tende a zero (in quanto il logaritmo di zero tende a $-\infty$), cioè il polo (inteso come origine del sistema di riferimento e quindi della spirale stessa) è un punto asintotico.

In assenza di attrito, una forza di contatto si mantiene sempre perpendicolare alla tangente alla superficie nello stesso punto di contatto (ha cioè la stessa direzione del raggio di curvatura della sfera osculatrice costruita in quello stesso punto).

Per la curva scelta (che giace in un piano perpendicolare all'asse dell'asta di comando degli arpioni), tale forza sarà dunque perpendicolare alla tangente nel punto considerato.

La pendenza della tangente è data dalla derivata dy/dx dell'equazione, scritta però in coordinate cartesiane, e cioè:

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Il perché dei vantaggi

$$x = r \cdot \cos \alpha = r_0 \cdot e^{m\alpha} \cdot \cos \alpha$$

$$y = r \cdot \sin \alpha = r_0 \cdot e^{m\alpha} \cdot \sin \alpha$$

da cui differenziando:

$$dx = r_0 \left[\cos \alpha \cdot e^{m\alpha} \cdot m d\alpha + e^{m\alpha} (-\sin \alpha d\alpha) \right]$$

$$dy = r_0 \left(\sin \alpha \cdot e^{m\alpha} \cdot m d\alpha + e^{m\alpha} \cdot \cos \alpha d\alpha \right)$$

Rapportando le due espressioni si ottiene così la derivata della funzione spirale logaritmica, cioè la pendenza della tangente in ogni punto della curva:

$$\frac{dy}{dx} = \frac{m \sin \alpha + \cos \alpha}{m \cos \alpha - \sin \alpha} = \frac{m \cdot \operatorname{tg} \alpha + 1}{m - \operatorname{tg} \alpha}$$

Come caso particolare, per $\alpha = 0$ si ottiene:

$$\frac{dy}{dx} = \frac{1}{m}$$

che è la pendenza della curva nel punto di intercetta con l'asse delle ascisse, pendenza positiva in quanto per definizione $m > 0$.

Si può far vedere come tale pendenza rimane sempre la stessa rispetto alla direzione del raggio polare, per qualsivoglia valore dell'angolo α

Dall'identità:

$$\operatorname{tg} \beta = \operatorname{tg}[(\alpha + \beta) - \alpha]$$

si ha:

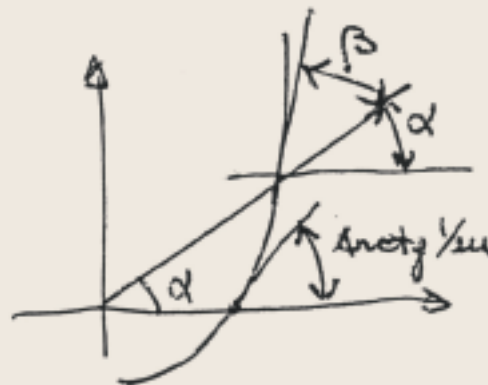
$$\operatorname{tg} \beta = \frac{\operatorname{tg}(\alpha + \beta) - \operatorname{tg} \alpha}{1 + \operatorname{tg}(\alpha + \beta) \operatorname{tg} \alpha}$$

Ma:

$$\operatorname{tg}(\alpha + \beta) = \frac{dy}{dx} = \frac{m \cdot \operatorname{tg} \alpha + 1}{m - \operatorname{tg} \alpha}$$

per cui sostituendo:

$$\operatorname{tg} \beta = \frac{\frac{m \cdot \operatorname{tg} \alpha + 1}{m - \operatorname{tg} \alpha} - \operatorname{tg} \alpha}{1 + \frac{m \cdot \operatorname{tg} \alpha + 1}{m - \operatorname{tg} \alpha} \operatorname{tg} \alpha} = \frac{m \cdot \operatorname{tg} \alpha + 1 - m \cdot \operatorname{tg} \alpha + \operatorname{tg}^2 \alpha}{m - \operatorname{tg} \alpha + m \cdot \operatorname{tg}^2 \alpha + \operatorname{tg} \alpha} = \frac{1 + \operatorname{tg}^2 \alpha}{m + m \cdot \operatorname{tg}^2 \alpha} = \frac{1}{m} \quad (\text{c.v.d.})$$

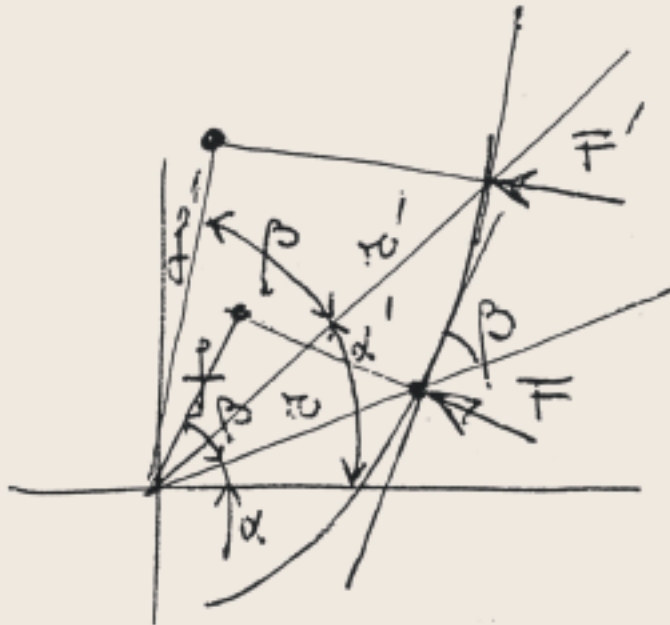


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Il perché dei vantaggi

Questa interessante proprietà della spirale logaritmica viene utilmente sfruttata per la costruzione dei profili coniugati in quanto porta ad un'altra importante considerazione in riferimento alle forze trasmesse nei punti di contatto:



Dalla figura risulta infatti:

$$r = r_0 \cdot e^{m\alpha}$$

$$r' = r_0 \cdot e^{m\alpha'}$$

$$r'' = r_0 \cdot e^{m\alpha''}$$

per definizione ed inoltre:

$$f = r \cos \beta$$

$$f' = r' \cos \beta$$

$$f'' = r'' \cos \beta$$

per cui:

$$\frac{f}{r} = \frac{f'}{r'} = \frac{f''}{r''} \quad \text{cioè}$$

$$\frac{f}{e^{m\alpha}} = \frac{f'}{e^{m\alpha'}} = \frac{f''}{e^{m\alpha''}} \quad \text{ed anche:}$$

$$\frac{f'}{f} = e^{m(\alpha' - \alpha)} \quad \text{e} \quad \frac{f''}{f'} = e^{m(\alpha'' - \alpha')}$$

Cioè a pari incremento di angolo α si mantiene costante il rapporto tra i bracci delle forze trasmesse. Se, ad esempio, si desidera una coppia costante, tale risultato si trasforma parimenti nella costanza del rapporto dei moduli delle forze trasmesse, a parità di una loro rotazione sul profilo.

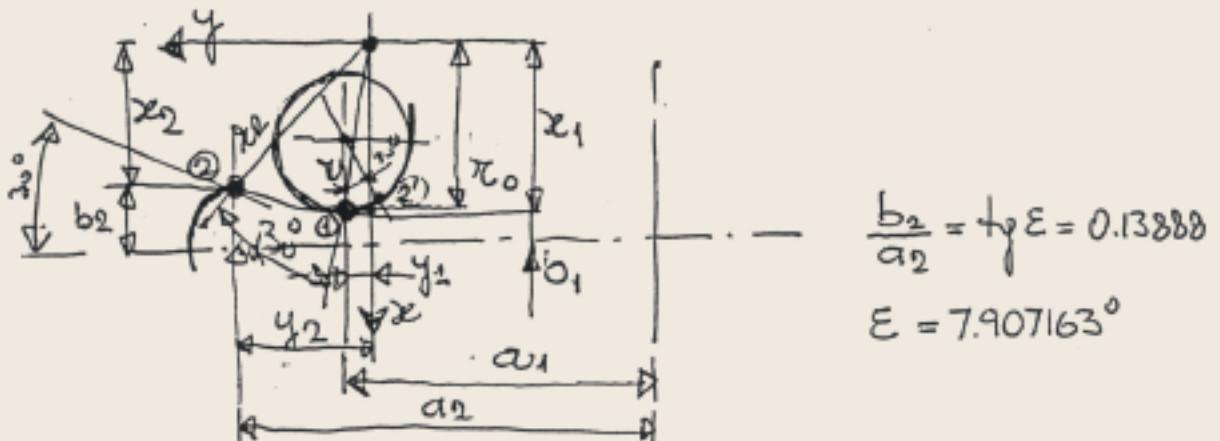
Risulta quindi chiaro come la scelta di questo tipo di profilo possa agevolare notevolmente l'ottenimento di un certo risultato, come ad esempio, per il caso considerato, uno sforzo praticamente costante pur dovendo esercitare sulla porta una pressione via via crescente man mano che la chiusura si completa.

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Il perché dei vantaggi

ESEMPIO DI PROGETTAZIONE

Vengono qui illustrati i risultati conseguibili con un profilo del tipo di quello illustrato, con forze definite in direzione come normale alla tangente punto per punto alla spirale logaritmica (ad inclinazione costante, come visto, rispetto al raggio polare) ed in modulo come conseguenza di una coppia costante applicata all'asta (e quindi all'arpione).



Sono date le seguenti grandezze:

$$a_1 = 44 \text{ mm}$$

$$a_2 = 54 \text{ mm}$$

$$b_2 = 7.5 \text{ mm}$$

$$\Delta\alpha = \alpha_2 - \alpha_1 = 30^\circ = 0.5236 \text{ rad}$$

Nel punto (1) la tangente è parallela all'asse delle y (cioè $\operatorname{tg} \alpha_1 = \infty$) mentre nel punto (2) la tangente forma un angolo di -30° con l'asse delle y (cioè $\operatorname{tg} \alpha_2 = -\sqrt{3}$).

Utilizzando la stessa definizione:

$$\frac{dy}{dx} = \frac{m \cdot \operatorname{tg} \alpha + 1}{m - \operatorname{tg} \alpha}$$

si ottiene:

$$\alpha_1 = 10^\circ \text{ e quindi: } m = \operatorname{tg} \alpha_1 = 0.176327$$

$$\alpha_2 = 40^\circ$$

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Il perché dei vantaggi

Si ha poi:

$$\frac{r_2}{r_1} = e^{n(a_2 - a_1)} = e^{0.176327 \cdot 0.5236} = 1.09672$$

$$r_2 \cdot \text{sen} \alpha_2 - r_1 \cdot \text{sen} \alpha_1 = y_2 - y_1 = a_2 - a_1 = 54 - 44 = 10$$

$$r_1 \cdot 1.09672 \cdot 0.64279 - r_1 \cdot 0.173648 = 10$$

$$r_1 = 18.8214$$

$$x_1 = 18.5355$$

$$y_1 = 3.2683$$

$$r_2 = 20.6418$$

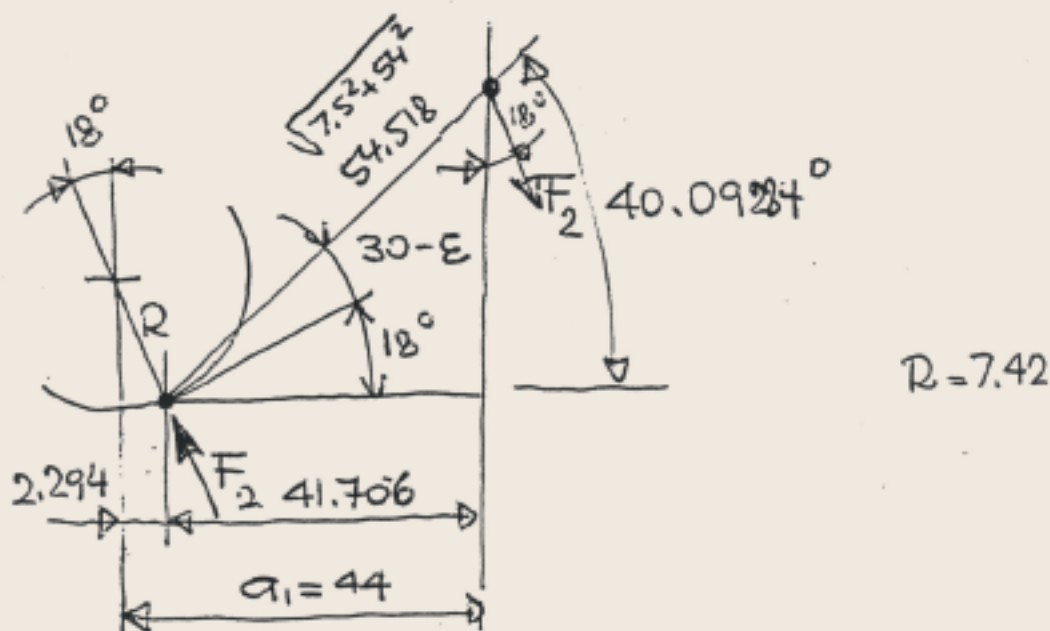
$$x_2 = 15.8125$$

$$y_2 = 13.2683$$

$$r_0 = 18.2510$$

Definiti così i profili interessati si può alla fine calcolare quali sono le forze esercitate in direzione x (cioè nel senso di chiudere la porta vincendo la resistenza della guarnizione).

Siccome il profilo a spirale si mantiene a contatto col profilo base coniugato (assunto per semplicità un arco di circonferenza di raggio R da determinare), risulta che quando il punto (2) si porta in (2') (con una rotazione scelta per costruzione pari a 18°), l'arpione è ruotato di un angolo pari a: $30 + 18 = 48^\circ$ (per mantenere la tangente sui due profili coniugati).



Supposto uno sforzo di circa 20 kg sulla maniglia, con un braccio di circa 200 mm si esercita sull'asta una coppia di 4000 kgmm, che viene contrastata dalla forza esercitata sulla porta e sul profilo fisso, con direzione imposta dalla normale al profilo a spirale nel punto di contatto.

Come l'arpione comincia a lavorare sul profilo fisso, esso si trova ruotato (per costruzione) di circa 48° , con forza nel punto di contatto inclinata di 18° .

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Il perché dei vantaggi

Il braccio tra le due forze risulta poi pari a:

$$f_2 = \sqrt{a_2^2 + b_2^2} \cos(30 - \varepsilon) = \sqrt{54^2 + 7.5^2} \cos 22.09284^\circ = 50.515$$

per cui il modulo della forza F_2 vale

$$F_2 = \frac{M}{f_2} = \frac{4000}{50.515} = 79.2 \text{ kg}$$

La componente attiva sulla porta (ad essa perpendicolare) vale così:

$$F_{2\perp} = F_2 \cos 18^\circ = 75.3 \text{ kg}$$

Quando la porta è tutta chiusa il braccio f_1 vale proprio a_1 con direzione della forza F_1 già perpendicolare alla porta, per cui:

$$F_{1\perp} = F_1 = \frac{M}{a_1} = \frac{4000}{44} = 90.9 \text{ kg}$$

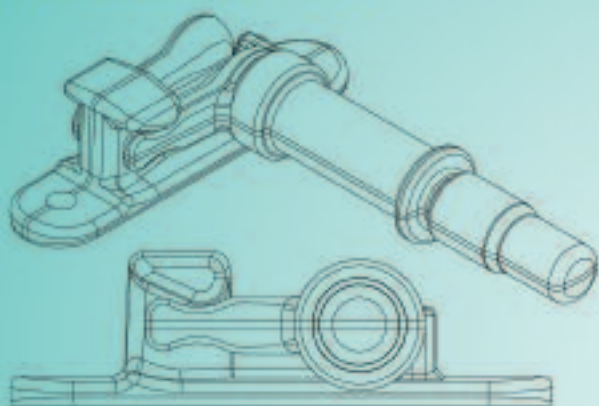
Risulta così, come già anticipato, un certo aumento della forza esercitata sulla porta (valutabile nell'esempio considerato in circa il 15%), concorde con l'aumento dell'attrito esercitato dalla guarnizione nella manovra di chiusura, senza sensibile aumento dello sforzo applicato (se l'attrito aumenta proprio del 15% lo sforzo si mantiene costante).

ARPIONE INNOVATIVO - NEW CAM WITH ROLLER

CON QUESTA NUOVA SOLUZIONE L'AZIONE DI APERTURA E CHIUSURA DIVENTA PIÙ SENSIBILE, PRECISA,
CON MOLTO MENO SFORZO DA APPLICARE ALLA MANIGLIA

THIS VERY NEW SOLUTION WILL ALLOW FOR A MUCH EASIER OPENING AND CLOSING OF THE DOORS,
OWING TO A STRONGLY REDUCED MANUAL EFFORT

**IERI...
YESTERDAY...**



VANTAGGI/BENEFITS

Facile da montare / intercambiabile

Con un immediato effetto positivo in apertura e chiusura porte:
più semplice e con minor sforzo grazie al nuovo sistema con rullo

Azione dolce e progressiva

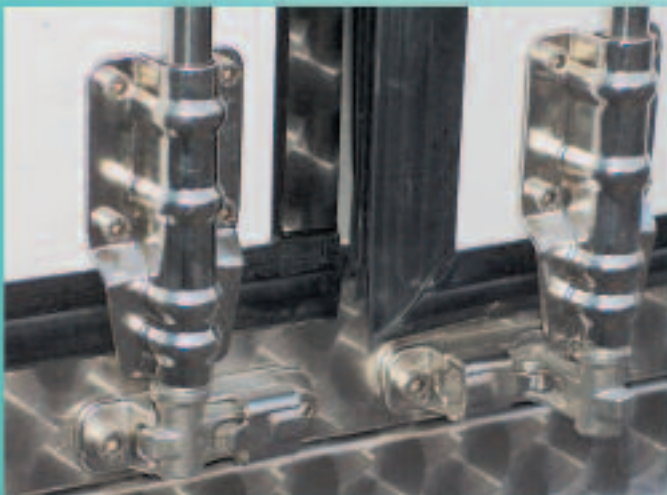
Valore aggiunto all'intero prodotto isothermico

Very easy to install / interchangeable

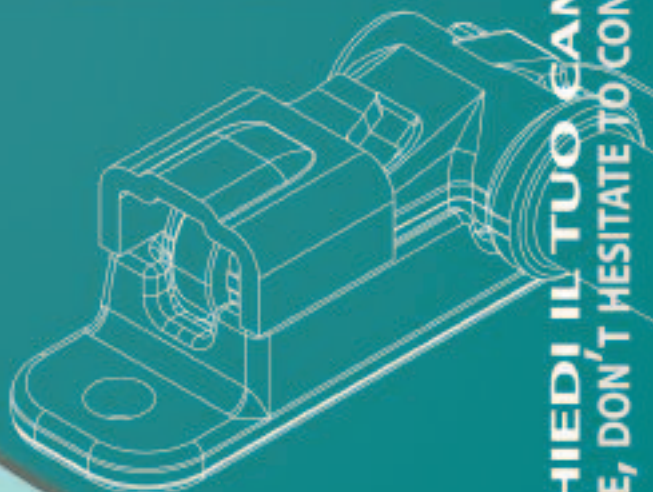
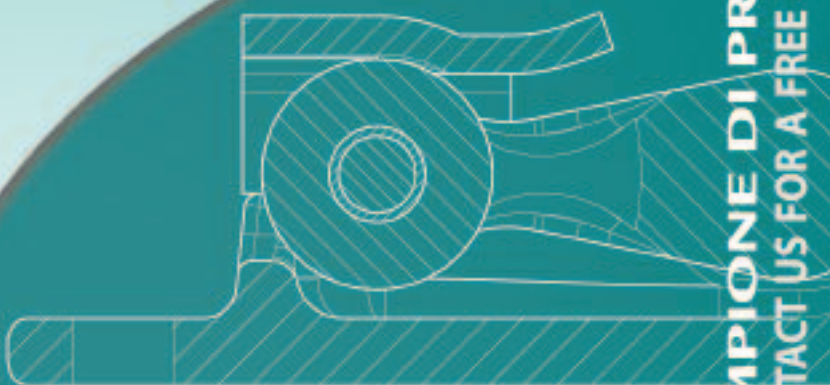
A direct positive effect: much less stress immediately felt in opening and closing
the door with this new cam with roller

A soft and progressive action

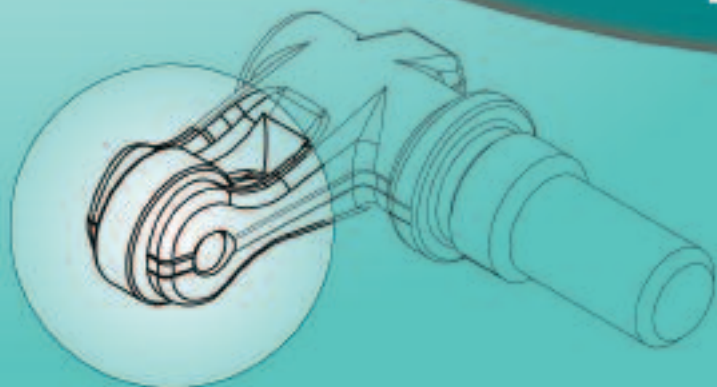
A rising value for the whole isothermal manufacture



**...OGGI
...TODAY**



**RICHIEDI IL TUO CAMPIONE DI PROVA
PLEASE, DON'T HESITATE TO CONTACT US FOR A FREE SAMPLE**

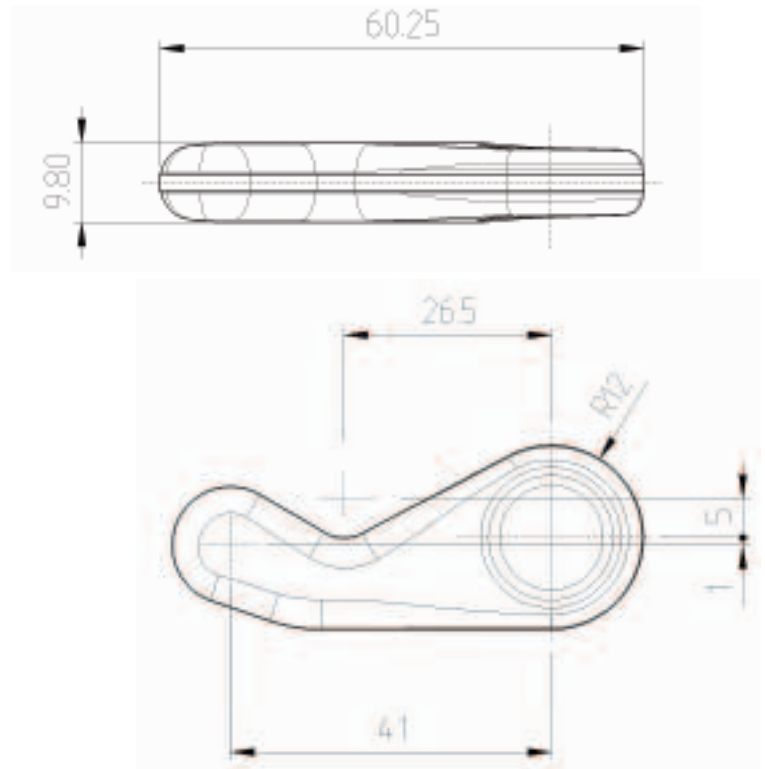
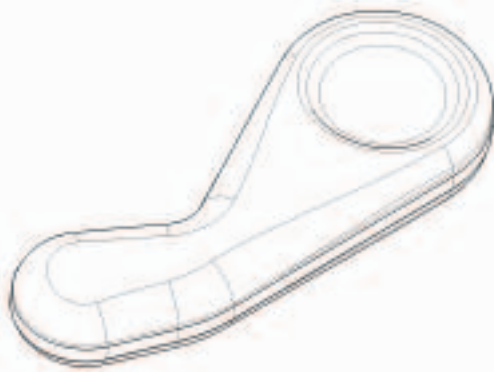


PATENT PENDING

INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS	ZINCATO / ZINC PLATED / ACIER ZINGUÉE / VERZINKT / VERZINKT
90A15100	90A25100

Arpioncino forgiato da
saldare estremità
al tubo Ø 16.
Forged cam for welding to
tube/rod Ø 16.
Pène fourgé à souder au
tube Ø 16.
Geschmiedeter
Schliesshaken zum
Anschweißen am Rohr Ø 16.
Gesmede Nokstukken, om
aan te lassen
aan buis Ø 16.

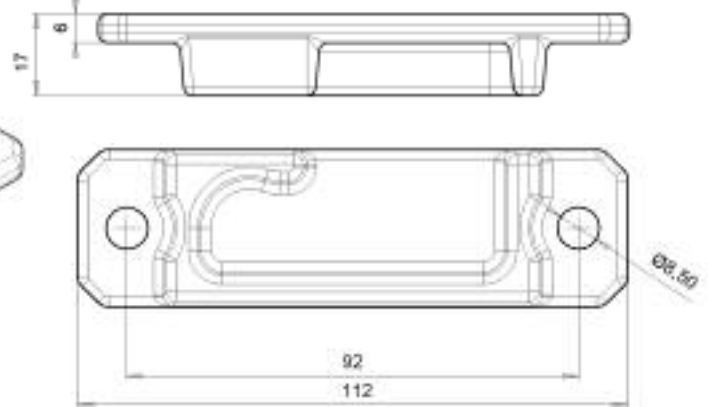
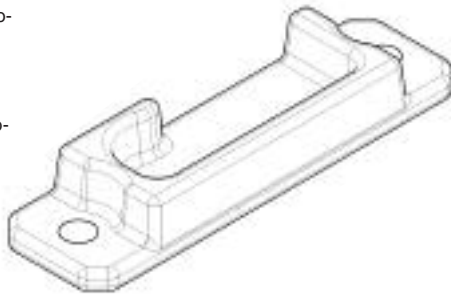
Arpioncino forgiato da
saldare estremità
al tubo Ø 16.
Forged cam for welding to
tube/rod Ø 16.
Pène fourgé à souder au tube Ø
16.
Geschmiedeter
Schliesshaken zum
Anschweißen am Rohr Ø 16.
Gesmede Nokstukken, om aan
te lassen
aan buis Ø 16.



BASE PER ARPIONCINO CHIUSURE DA INCASSO / KEEPERS FOR RECESSED LOCK /
 GÂCHE POUR PÈNE POUR CRÉMONES À ENCASTRER / SCHLISSHALTER FÜR HAKEN VOM EINBAU-VERSCHLÜSSEN /
 NOKHOUDER TBV NOKSTUK VAN INBOUWSLUITING

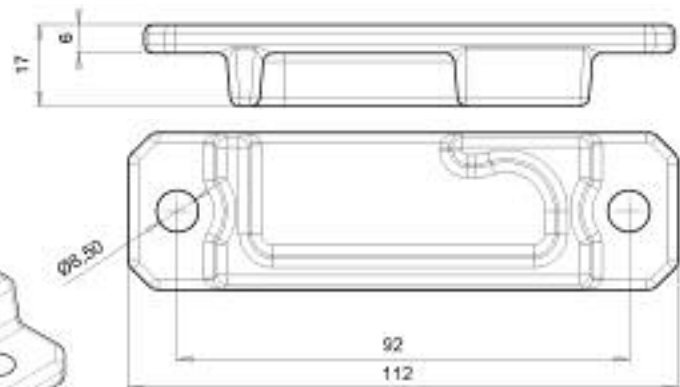
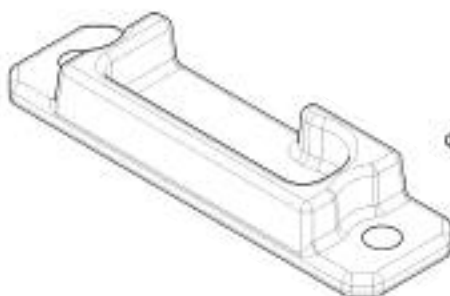
INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS
90B15100
DESTRO / RIGHT-HAND / DROITE / RECHTS / RECHTS

Base destra forgiata pro-
fondità utile 11 mm.
Forged keeper, righthand,
height 11 mm effectively,
with waterdrain.
Gâche fourgé gauche, pro-
fondeur utile 11 mm, avec
écoulement de l'eau.
Schliesshalter Rechts
geschmiedet,
Höhe 11 mm Effektiv,
mit Wasserabweisung.
Nokhouder rechts,
gesmeedt, effectieve
hoogte 11 mm, met water-
afvoer.



INOX / STAINLESS STEEL / ACIER INOX / EDELSTAHL / RVS
90B15101
SINISTRO / LEFT-HAND / GAUCHE / LINKS / LINKS

Base sinistra forgiata
profondità utile 11 mm.
Forged keeper, lefthand,
height 11 mm effectively,
with waterdrain.
Gâche fourgé gauche, pro-
fondeur utile 11 mm, avec
écoulement de l'eau.
Schliesshalter Links
geschmiedet,
Höhe 11 mm Effektiv,
mit Wasserabweisung.
Nokhouder links, gesmeedt,
effectieve hoogte 11 mm,
met waterafvoer.



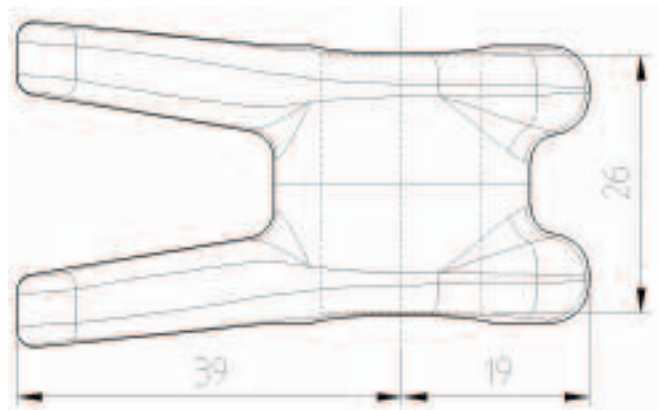
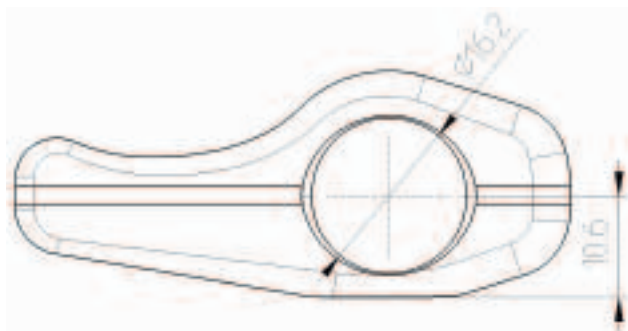
INOX / STAINLESS STEEL /
 ACIER INOX / EDELSTAHL / RVS

90A16126

GAMMA 26 / RANGE 26 / GAMME 26 /
 GAMMA 26 / GAMMA 26

Arpione Modello 26
 Cams Type 26
 Pène modèle 26
 Schliesshaken Modell 26
 Nokstuk model 26

D.M.G. Industrie 



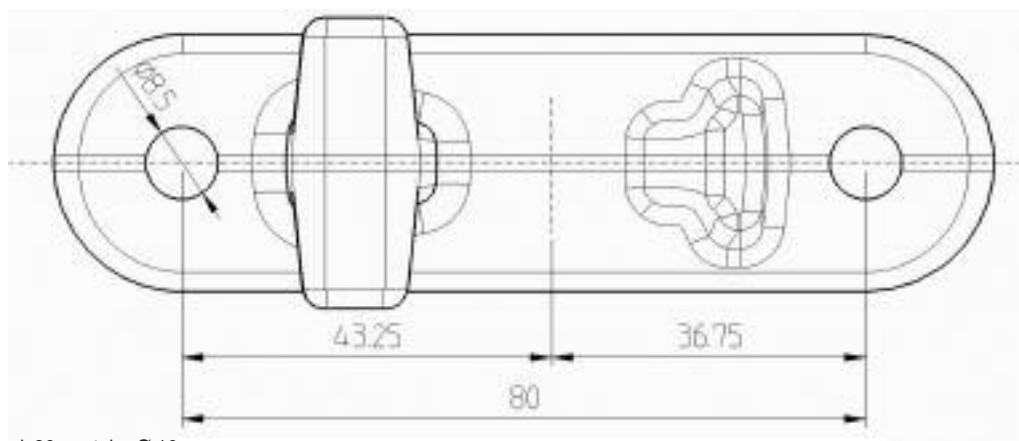
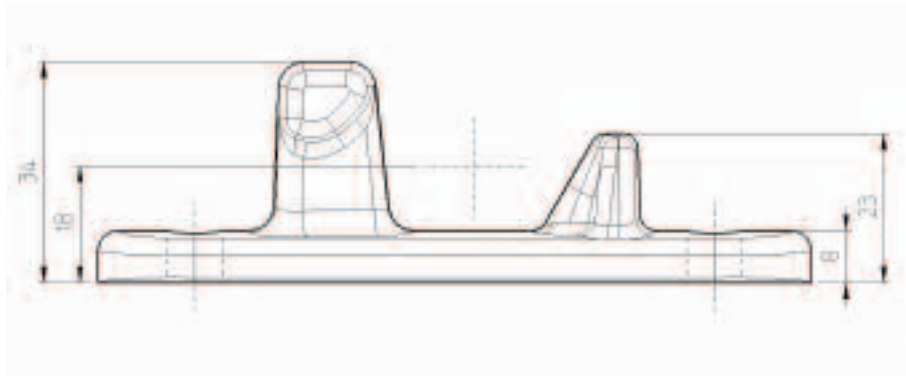
Arpione luce 26 mm per tubo Ø 16
 Cam range 26 mm for tube Ø 16
 Pène à distance 26 mm pour tube Ø 16
 Schliesshaken 26 mm für Rohr Ø 16
 Nokstuk model 26 voor buis Ø 16

INOX / STAINLESS STEEL /
 ACIER INOX / EDELSTAHL / RVS

90B16126

GAMMA 26 / RANGE 26 / GAMME 26 /
 GAMMA 26 / GAMMA 26

Base per Arpione Modello 26
 Keeper for range 26
 Gâche pour pène modèle 26
 Schliesshalter für Hakenteil
 Modell 26
 Nokhouder voor Nokstuk
 model 26



Base per arpione mod. 26 per tubo Ø 16
 Keeper for cam range 26 for tube Ø 16
 Gâche pour pène mod. 26 pour tube Ø 16
 Schließhalter für Hakenteil Mod.26 für Rohr Ø 16
 Nokhouder voor Nokstuk model 26 voor buis Ø 16

INOX / STAINLESS STEEL /
 ACIER INOX / EDELSTAHL /RVS

90A16229

GAMMA 29 / RANGE 29 / GAMME
 29 / GAMMA 29 / GAMMA 29

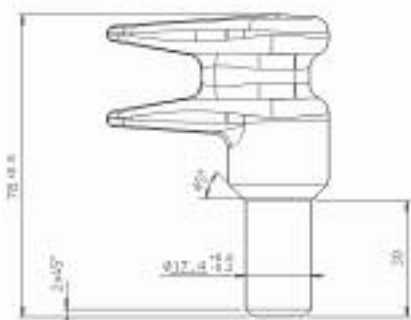
Arpione Modello 29
 Cams Type 29.
 Pène modèle 29
 Schliesshaken Modell 29
 Nokstuk model 29

ZINCATO / ZINC PLATED / ACIER ZINGUÉE /
 VERZINKT / VERZINKT

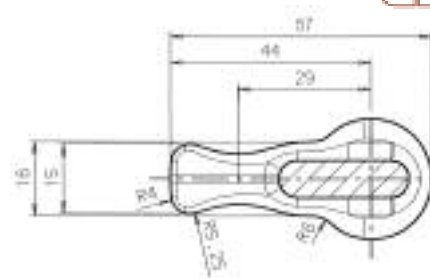
90A26229

GAMMA 29 / RANGE 29 / GAMME 29 /
 GAMMA 29 / GAMMA 29

Arpione Modello 29
 Cams Type 29.
 Pène modèle 29
 Schliesshaken Modell 29
 Nokstuk model 29



D.M.G. Industrie



Arpione luce 29 mm per tubo Ø 22 (rondella anti-rack saldata sul tubo).
 Cams range 29 mm for tube Ø 22 (the antirack-ring has to be welded separately to the tube)
 Pène à distance de 29 mm pour tube Ø 22 (l'anneau anti-rack à souder sur le tube).
 Schliesshaken auf 29 mm für Rohr Ø 22 (die Antirackscheibe soll separat an das Rohr angeschweisst werden)
 Nokstuk model 29 voor buis Ø 22 (de antirack-ring dient apart op de buis gelast te worden)

INOX / STAINLESS STEEL /
 ACIER INOX / EDELSTAHL /RVS

90A16329

GAMMA 29 / RANGE 29 / GAMME
 29 / GAMMA 29 / GAMMA 29

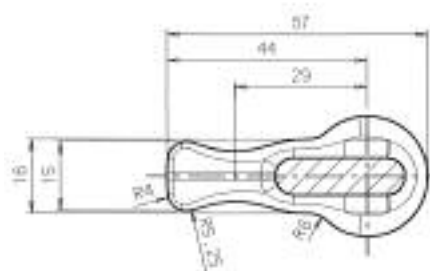
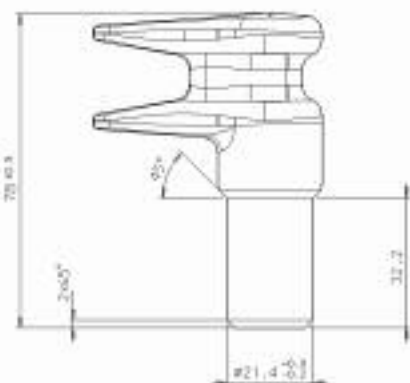
Arpione Modello 29
 Cams Type 29.
 Pène modèle 29
 Schliesshaken Modell 29
 Nokstuk model 29

ZINCATO / ZINC PLATED / ACIER ZINGUÉE /
 VERZINKT / VERZINKT

90A26329

GAMMA 29 / RANGE 29 / GAMME 29 /
 GAMMA 29 / GAMMA 29

Arpione Modello 29
 Cams Type 29.
 Pène modèle 29
 Schliesshaken Modell 29
 Nokstuk model 29



Arpione luce 29 mm per tubo Ø 27 (rondella anti-rack saldata sul tubo).
 Cams range 29 mm for tube Ø 27 (the antirack-ring has to be welded separately to the tube)
 Pène à distance de 29 mm pour tube Ø 27 (l'anneau anti-rack à souder sur le tube).
 Schliesshaken auf 29 mm für Rohr Ø 27 (die Antirackscheibe soll separat an das Rohr angeschweisst werden)
 Nokstuk model 29 voor buis Ø 27 (de antirack-ring dient apart op de buis gelast te worden)

INOX / STAINLESS STEEL /
 ACIER INOX / EDELSTAHL /RVS

90B16029

GAMMA 29 / RANGE 29 / GAMME
 29 / GAMMA 29 / GAMMA 29

Base per Arpione Modello 29
 Keeper for range 29
 Gâche pour pène modèle 29
 Schliesshalter für Hakenteil
 Modell 29
 Nokhouder voor Nokstuk
 model 29

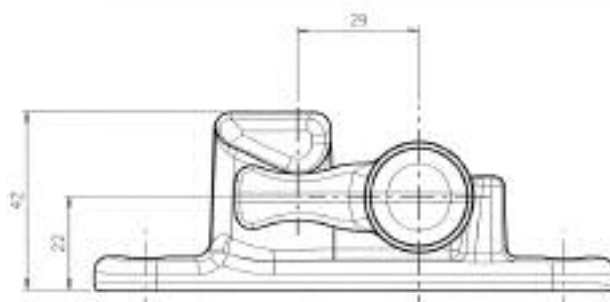
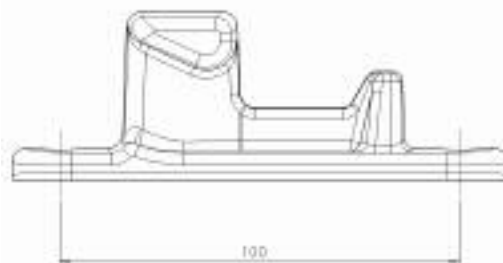
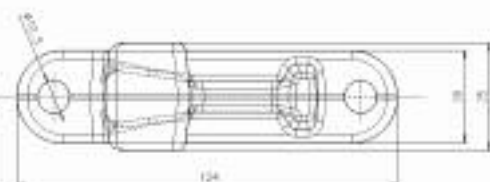
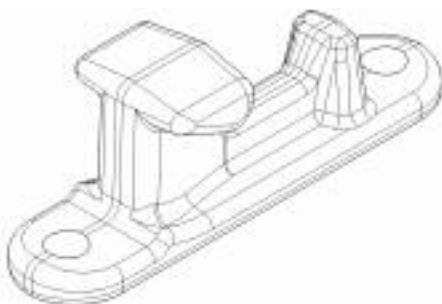
ZINCATO / ZINC PLATED / ACIER ZINGUÉE /
 VERZINKT / VERZINKT

90B26029

GAMMA 29 / RANGE 29 / GAMME 29 /
 GAMMA 29 / GAMMA 29

Base per Arpione Modello 29
 Keeper for range 29
 Gâche pour pène modèle 29
 Schliesshalter für Hakenteil
 Modell 29
 Nokhouder voor Nokstuk
 model 29

Base per arpione luce 29 mm per tubi Ø 22 - Ø 27
 Keeper range 29 for tube Ø 22 - Ø 27
 Gâche pour pène à distance de 29 mm pour tube Ø 22 - Ø 27
 Schliesshalter für Hakenteil 29 mm für Rohr Ø 22 - Ø 27
 Nokhouder voor Nokstuk model 29 voor buis Ø 22 - Ø 27



D.M.G. Industrie 

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

90A16201

GAMMA 40 / RANGE 40 / GAMME
40 / GAMMA 40 / GAMMA 40

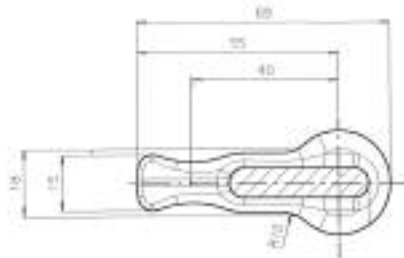
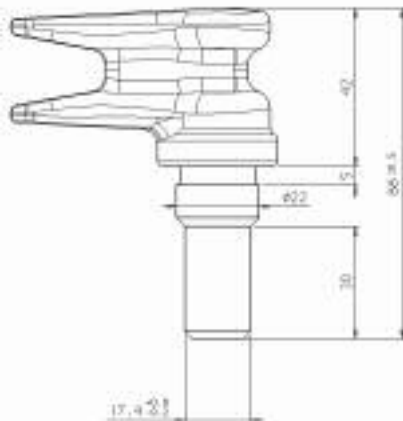
Arpione Modello 40
Cams Type 40
Pène modèle 40
Schliesshaken Modell 40
Nokstuk model 40

ZINCATO / ZINC PLATED / ACIER ZINGUÉE /
VERZINKT / VERZINKT

90A26201

GAMMA 40 / RANGE 40 / GAMME 40 /
GAMMA 40 / GAMMA 40

Arpione Modello 40
Cams Type 40
Pène modèle 40
Schliesshaken Modell 40
Nokstuk model 40



Arpione luce 40 mm con rondella anti-rack ricavata sul codolo, per tubo Ø 22

Cams range 40 for tube Ø 22 with incorporated antirack-ring.

Pène à distance de 40 mm avec l'anneau anti-rack incorporé, pour tube de Ø 22

Schliesshaken auf 40 mm für Rohr Ø 22 mit integrierte Antirackscheibe.

Nokstukken model 40 voor buis Ø 22 met geïntegreerde antirack-ring.

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

90A16202

GAMMA 40 / RANGE 40 / GAMME
40 / GAMMA 40 / GAMMA 40

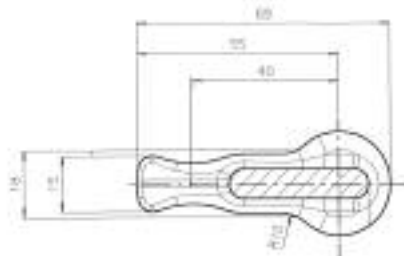
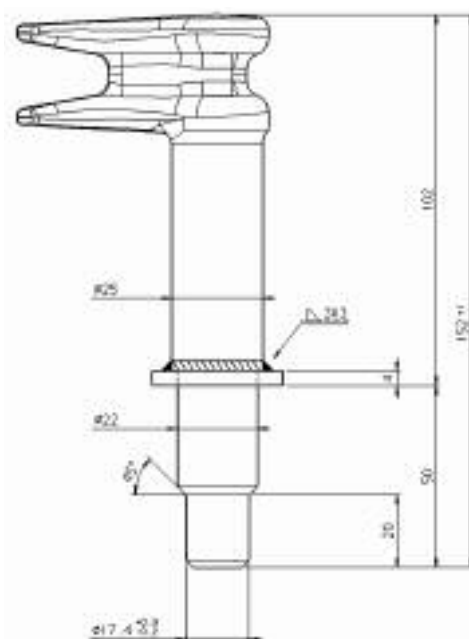
Arpione Modello 40
Cams range 40
Pène modèle 40
Schliesshaken Modell 40
Nokstuk model 40

ZINCATO / ZINC PLATED / ACIER ZINGUÉE /
VERZINKT / VERZINKT

90A26202

GAMMA 40 / RANGE 40 / GAMME 40 /
GAMMA 40 / GAMMA 40

Arpione Modello 40
Cams range 40
Pène modèle 40
Schliesshaken Modell 40
Nokstuk model 40



Arpione luce 40 mm con rondella anti-rack già saldata sul codolo allungato, per tubo Ø 22

Cams range 40 for tube Ø 22 (the antirack-ring is already welded on the prolonged shaft)

Pène à distance de 40 mm, prolongé, avec l'anneau anti-rack soudé, pour tube de Ø 22

Schliesshaken auf 40 mm für Rohr Ø 22 (die Antirackscheibe wird bereits auf das verlängerten Hakenteil angeschweisst)

Nokstukken model 40 voor buis Ø 22 (de antirack-ring is reeds op de verlengde schacht aangebracht)

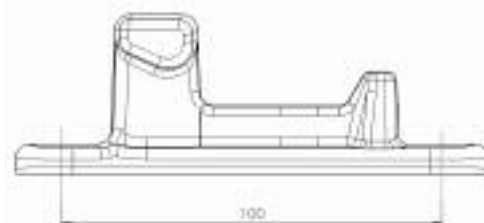
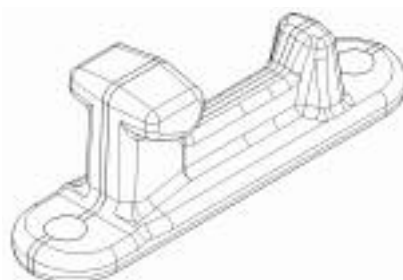
INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

90B16040

GAMMA 40 / RANGE 40 / GAMME
40 / GAMMA 40 / GAMMA 40

Base per Arpione Modello 40
Keeper for cam range 40.
Gâche pour pène modèle 40.
Schliesshalter für Hakenteil
Modell 40.
Nokhouder voor Nokstuk mod-
el 40.

Base per arpione luce 40
Keeper for cam range 40.
Gâche pour pène modèle 40.
Schliesshalter für Hakenteil Modell 40.
Nokhouder voor model 40.

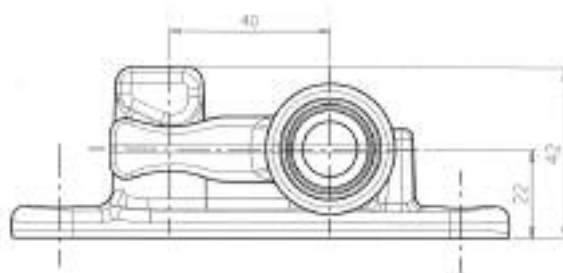
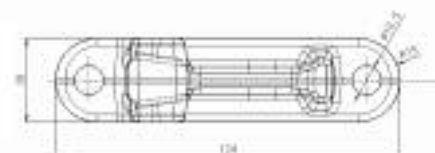


ZINCATO / ZINC PLATED / ACIER ZINGUÉE /
VERZINKT / VERZINKT

90B26040

GAMMA 40 / RANGE 40 / GAMME 40 /
GAMMA 40 / GAMMA 40

Base per Arpione Modello 40
Keeper for cam range 40.
Gâche pour pène modèle 40.
Schliesshalter für Hakenteil Modell 40.
Nokhouder voor Nokstuk model 40.

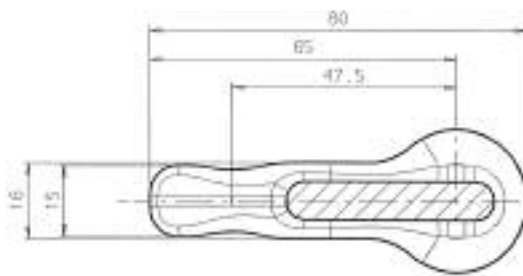
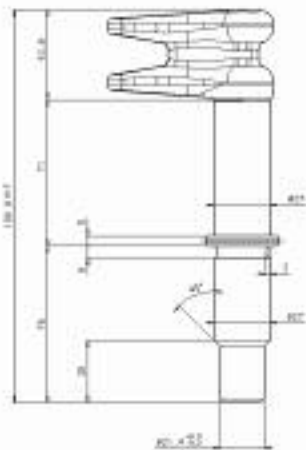


INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS

90A16305

GAMMA 50 / RANGE 50 / GAMME
50 / GAMMA 50 / GAMMA 50

Arpione Modello 50
Cams range 50
Pène modèle 50
Schliesshaken Modell 50
Nokstuk model 50



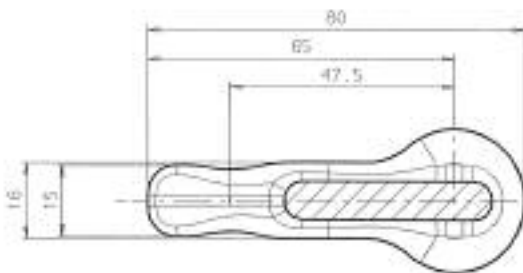
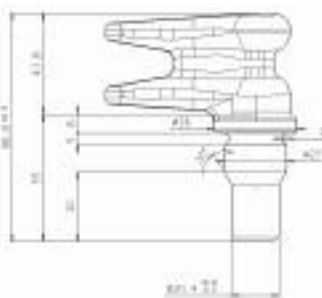
Arpione luce 50 mm con rondella anti-rack ricavata sul codolo allungato per tubo Ø 27.
Cams range 50 for tube Ø 27 (antirack-ring is already welded on the prolonged shaft).
Pène à distance de 50 mm, prolongé, avec l'anneau anti-rack soudé, pour tube de Ø 27.
Schliesshaken auf 50 mm für Rohr Ø 27 (die Antirackscheibe wird bereits auf das verlängerten Hakenteil angebracht).
Nokstukken model 50 voor buis Ø 27 (de antirack-ring is reeds op de verlengde schacht aangebracht).

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS

90A16304

GAMMA 50 / RANGE 50 / GAMME
50 / GAMMA 50 / GAMMA 50

Arpione Modello 50
Cams range 50
Pène modèle 50
Schliesshaken Modell 50
Nokstuk model 50



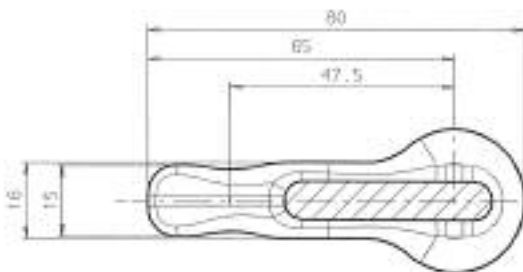
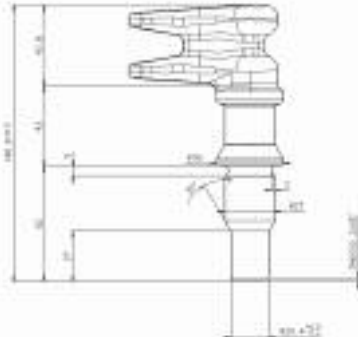
Arpione luce 50 mm con rondella anti-rack ricavata sul codolo, per tubo Ø 27.
Cams range 50 for Ø 27, with incorporated antirack-ring.
Pène à distance de 50 mm avec l'anneau anti-rack incorporé, pour tube de Ø 27.
Schliesshaken auf 50 mm für Rohr Ø 27, mit integrierten Antirackscheibe.
Nokstukken model 50 voor buis Ø 27, met geïntegreerde antirack-ring.

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS

90A16307

GAMMA 50 / RANGE 50 / GAMME
50 / GAMMA 50 / GAMMA 50

Arpione Modello 50
Cams range 50
Pène modèle 50
Schliesshaken Modell 50
Nokstuk model 50



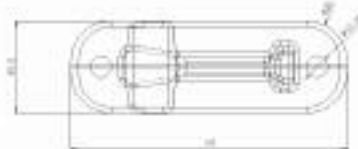
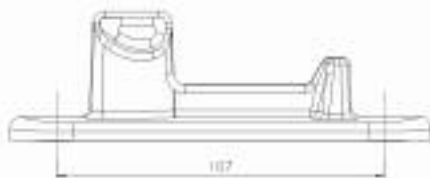
Arpione luce 50 mm con rondella anti-rack ricavata sul codolo allungato, per tubo Ø 27x 3.
Cams range 50 for tube Ø 27 x 3 (antirack-ring is already welded on the prolonged shaft).
Pène à distance de 50 mm, prolongé, avec l'anneau anti-rack soudé, pour tube de Ø 27 x 3.
Schliesshaken auf 50 mm für Rohr Ø 27 x 3 (die Antirackscheibe wird bereits auf das verlängerten Hakenteil angebracht).
Nokstukken model 50 voor buis Ø 27 x 3 (de antirack-ring is reeds op de verlengde schacht aangebracht).

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS

90B16050

GAMMA 50 / RANGE 50 / GAMME
50 / GAMMA 50 / GAMMA 50

Base per Arpione Modello 50.
Keeper for cam range 50.
Gâche pour pène modèle 50.
Schliesshalter für Hakenteil
Modell 50.
Nokhouder voor Nokstuk
model 50.

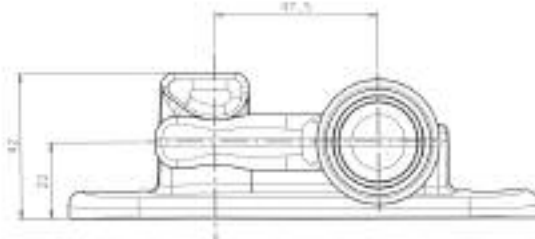
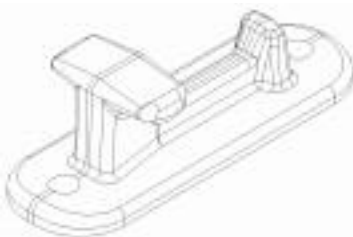


ZINCATO / ZINC PLATED / ACIER ZINGUÉE /
VERZINKT / VERZINKT

90B26050

GAMMA 50 / RANGE 50 / GAMME 50 /
GAMMA 50 / GAMMA 50

Base per Arpione Modello 50.
Keeper for cam range 50.
Gâche pour pène modèle 50.
Schliesshalter für Hakenteil Modell 50.
Nokhouder voor model 50.



Base per arpione luce 50.
Keeper for cams range 50.
Gâche pour pène modèle 50.
Schliesshalter für Hakenteil Modell 50.
Nokhouder voor model 50.



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS
40C00000

Serratura
Cylinder
Condannation de clé
Zylinder
Cylinder



Serratura a nottolino per chiave a rotazione 90°.
Cylinder with key 90°.
Condannation de clé complète, à rotation de 90°.
Zylinder m/ Schlüssel 90°.
Cylinder m/ sleutel 90°.



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS
10C10070

Linguetta
Lip
Pène
Zunge
Lip

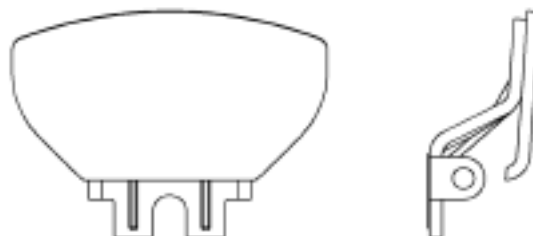


Linguetta per serratura.
Lip for cylinder.
Pène pour clôture.
Zunge für Zylinder.
Lip voor cylinder.



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS
10C10010

Pulsante
Button
Poussoir
Drücker
Drukknop



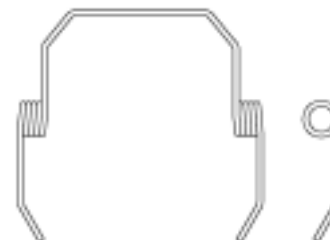
Pulsante blocco maniglia per chiusura.
Button for blocking the handle.
Poussoir de blocage pour poignée.
Drücker zum arretierung Griff.
Drukknop ter vergrendeling greep



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS
40C20010

Molla per pulsante
Spring for button
Ressort pour poussoir
Feder für Drücker
Veer voor drukknop

Molla per ritorno
pulsante blocco maniglia.
Spring for button.
Ressort pour le retour du
poussoir de la poignée.
Feder für Drücker.
Veer voor drukknop.



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS
40C20020

Molla per Sportellino
Spring for cover
Ressort pour le couvercle
Feder für Klappe
Veer voor tir-klepje

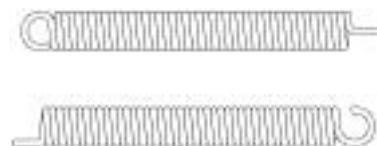
Molla ritorno sportellino.
Returnspring for cover.
Ressort de retour du couvercle.
Rückholfeder für Klappe.
Veer voor tir-klepje.



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL /RVS
40C20030

Molla per Maniglia
Spring for handle
Ressort pour poignée
Feder für Griff
Veer voor greep

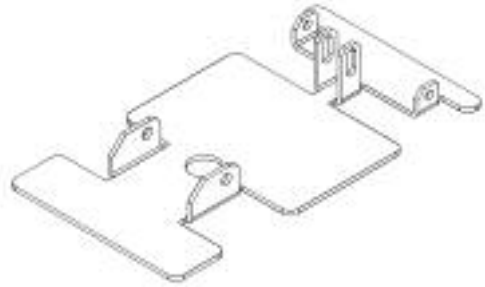
Molla ritorno maniglia
Returnspring for handle.
Ressort de retour du poignée.
Rückholfeder für Griff.
Veer voor greep.



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

10C15000

Inserto Tecnologico
Technical backplate
Base technologique
Technische Rückplatte
Technische achterplaat

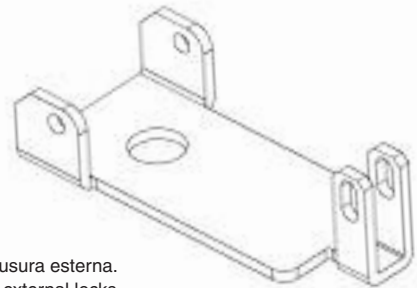


Inserto tecnologico per ancoraggi senza saldatura per chiusura da incasso.
Technical backplate with fixing-points without weldings for recessed locks.
Base technologique pour les fixations sans soudures pour les crémones à encastrer.
Technische Rückplatte für die Befestigungen ohne Schweißstellen für Einbau-Verschlüsse.
Technische achterplaat voor de bevestiging alle delen van de inbouwsluitingen, zonder lassen.

INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

10C16000

Inserto Tecnologico.
Technical backplate.
Base technologique.
Technische Rückplatte
Technische achterplaat



Inserto tecnologico per ancoraggi senza saldatura per chiusura esterna.
Technical backplate with fixing-points without weldings for external locks.
Base technologique pour les fixations sans soudures pour les crémones en applique.
Technische Rückplatte für die Befestigungen ohne Schweißstellen für Aussenliegenden –Verschlüssen.
Technische achterplaat voor de bevestiging alle delen van de opbouwsluitingen, zonder lassen.

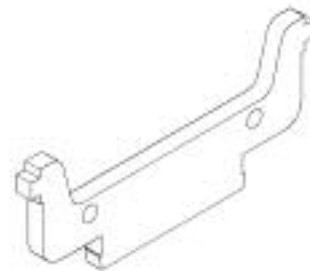
INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

10C10060

Supporto per Sportellino.
Cover-support
Support du couvercle
Stützplatte für Klappe
Steunplaatje voor tir-klepje



Supporto per sportellino e ancoraggio molle.
Cover-support with spring-fixings.
Support du couvercle et fixation des ressorts.
Stützplatte für Klappe und Federbefestigung.
Steunplaatje voor tir-klepje en veermontage.



INOX / STAINLESS STEEL /
ACIER INOX / EDELSTAHL / RVS

10C10080

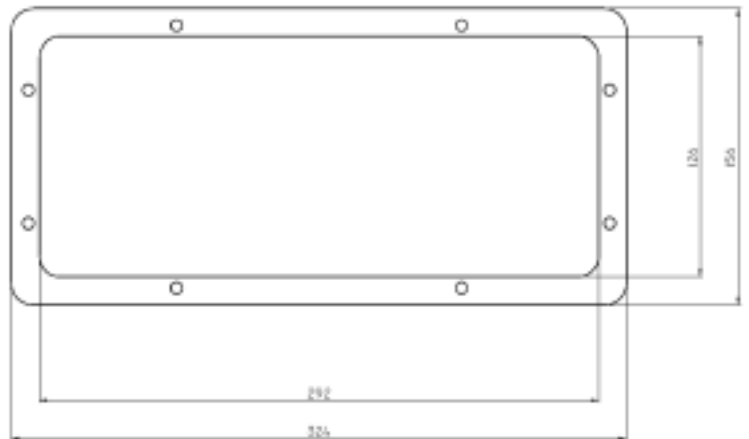
Sportellino
Cover
Couvercle
Klappe
Tir-klepje



Sportellino copertura maniglie per chiusure.
Cover for Push-handles.
Couvercle pour poignée.
Klappe für Drückergriffe.
Klappe für Drückergriffe.



NYLON / NYLON / NYLON / NYLON / NYLON	NYLON / NYLON / NYLON / NYLON / NYLON
10C45020/A	10C45021/A
NERA / BLACK / NOIR / SCHWARZ / SCHWARZ	BIANCA / WHITE / BLANC / WEISS / WEISS
Guarnizione Gasket Perfil en nylon Dichtung Dichtung	Guarnizione Gasket Perfil en nylon Dichtung Dichtung

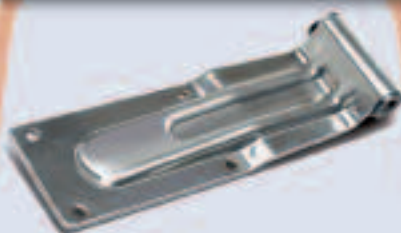


Guarnizione di tenuta sottoflangia per chiusure da incasso.
Gasket for recessed locks.
Perfil en nylon pour le montage entre le crémone et le panneau.
Dichtung zum Einsatz unter die Schalenlippe vom Einbau-Verschlüsse.
Dichtung zum Einsatz unter die Schalenlippe vom Inbouwsluitinge



Le nostre cerniere: Laterali, posteriori, doppio snodo, doppio giunto, da incasso
 Our hinges: double-knuckle, double-jointed, recessed hinges, for side doors and rear doors

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Vasta gamma di basi per cerniera
 A big range of hinge brackets



Chiusure inox esterne di tutte le misure
 Stainless steel external locks of different sizes



Chiusure inox incassate di tutte le misure
 Stainless steel recessed locks of different sizes



Vasto assortimento di arpioni e basi per chiusure esterne e incassate
 A big range of cams and keepers for external and recessed locks



Fissaggi per tubi/aste di tutte le dimensioni
 Fixings for every size of tube/rod



Fissaggi per tubi/aste di tutte le dimensioni
 Fixings for every size of tube/rod



Kit chiusura completi e/o preassemblati
 S.S. complete and/or assembled locking gears



Leva triangolare completa per tutti i tipi di tubo/asta
 S.S. complete triangle lever for every size of tube/rod

DE MOLLI
OID
 INDUSTRIE

KIT CHIUSURA / LOCKING GEARS

APPIONI E BASI / CAMS & KEEPERS

CHIUSURE / LOCKS

CERNIERE / HINGES

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D.M.G. Industrie

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