



MPGAMMA

STEEL FACTOR



**PENDANT CONTROL PANEL
JOINTS AND SUPPORT SYSTEMS
CONSOLE**



MPGAMMA



STEEL FACTOR

MPGAMMA, with a well-established industrial tradition, is one of the most important manufacturers of stainless steel casings at a national and European level.

Knowledge and ongoing learning, factors that are felt and experienced throughout the day, to ensure and enhance our commitment, to look beyond borders.

Our **continuous research** and **constant focus** on new production technologies are reflected in the manufacturing of each individual product.

The perfect interplay between investments, technology and experience creates a quality product.

Quality certifications are essential to provide maximum safety to our customers.

Investments, corporate and product certifications are the trademark of a well-organised and solid company.

All our production and logistics processes have one goal: **balance**.



QUALITY SERVICE

- Product customisation, drilling and pre-processing.
- Special products according to design.
- High flexibility.
- Fast delivery.
- Wide stock availability.
- Direct distribution throughout the country and abroad.
- We can meet any customer requirement.



QUALITY PRODUCTS

- Stainless steel AISI 304L DIN 1.4307 EN X 2 CrNi 18-09 AISI 316L DIN 1.4404 EN X 2 CrNiMo 17-12-2.
- High-finish TIG, MIG, CMT welding.
- Welding process qualified in accordance with 15614-1:2012 WPQR (Welding Procedure Qualification Record).
- Accessories entirely made of stainless steel.
- Scratch-proof protection of the sheet metal and protective packaging.
- Compliance with the latest hygiene guidelines in the food industry.



QUALITY ORGANISATION

- Production in accordance with international UNI EN ISO 9001 standards.
- Total quality process management.
- Qualification of personnel.
- Broad and flexible production programme.
- Fully automated manufacturing systems.
- Cutting-edge production technology.
- Qualified welding personnel in accordance with UNI EN ISO 14732:2013 and UNI EN ISO 9606-1:2013.



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PENDANT CONTROL PANEL ENCLOSURES KC SERIES

The Pendant control panel enclosures of the “KC” series are designed to contain command and control devices near the operator.



FEATURES

- Entirely made of AISI 304L steel (Wnr 1.4307).
- To be used in conjunction with the “Y” series system of load-bearing arms with the relative GM series rotating joints (machine side) or GS series (Pendant control panel side) and fixed joints GF series to ensure smooth control of the instruments.
- Designed for support with arms featuring a 48 mm and 60 mm diameter.
- Can be assembled with the arm support on the lower or upper side and the door is reversible.
- Body with welded and finished corners.
- Door with rounded corners, can be opened to at least 120° with internal stainless steel hinges, side locks with stainless steel insert featuring a double flap, welded and finished corners.
- FINE external SATIN finish, medium Scotch-Brite type.
- Polyurethane seal with robotised application.
- Internal M6 studs bolts fixed at the back of the body to fix DIN bars or a galvanised wiring plate (item KP) to be ordered separately.
- Ergonomic handle.
- Internal M6x16 stainless steel earthing threaded studs bolts.
- Sheet metal thickness values of the body and door from 12/10 mm to 15/10 mm depending on the size.

OPTIONALS UPON REQUEST

- Drilling as per design.
- Resistant silicone seals, from -50°C to + 180°C.
- Products made with AISI 316L or other special steels.
- Special dimensions.
- Generic and specific accessories.

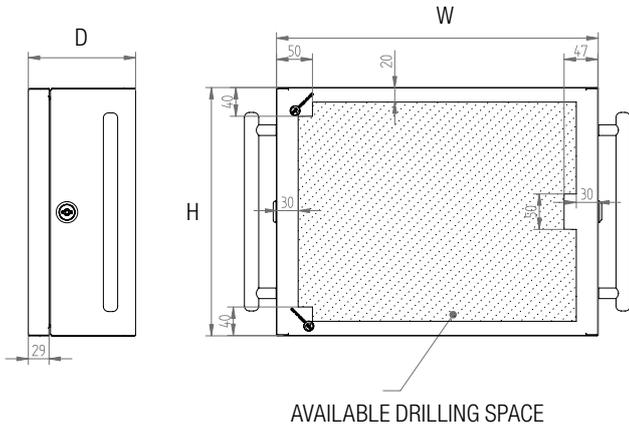
CERTIFICATIONS

- **IP66-IP69K-IK10 protection rating certified by TÜV SUD in accordance with EN 62208.**
- TYPE 1, 12, 4, 4X (cULus) protection rating in accordance with UL50, 508A, 746C and CSA 22.2 No14,94 (upon request).
- Suitable for use in potentially explosive atmospheres (Group -II-, Category -3-, Zone -22,2-) with the application of the accessory KITATEXKC-2-22.
- Welding process qualified in accordance with 15614-1:2012 WPQR (Welding Procedure Qualification Record).

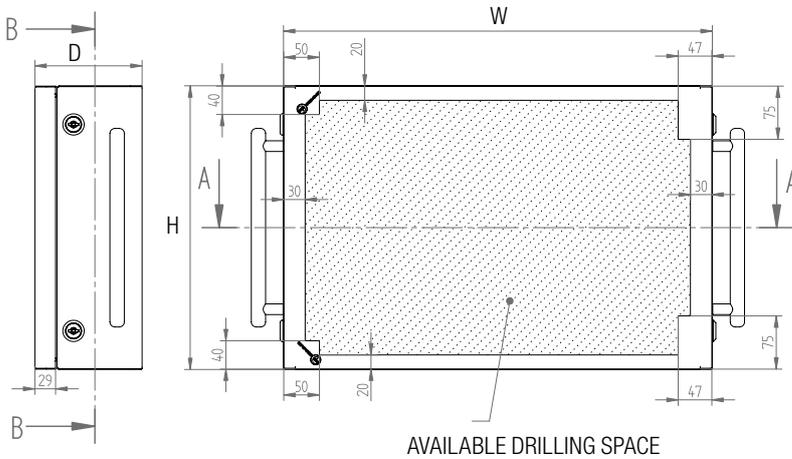


AVAILABLE ACCESSORIES

VERSION WITH 1 CLOSING POINT

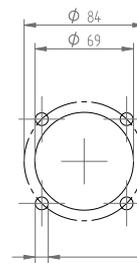


VERSION WITH 2 CLOSING POINTS

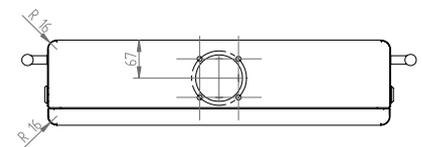
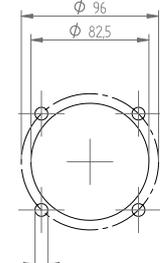


DRILLING DETAILS

Ø 48 JOINT

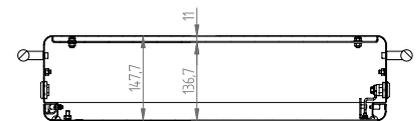
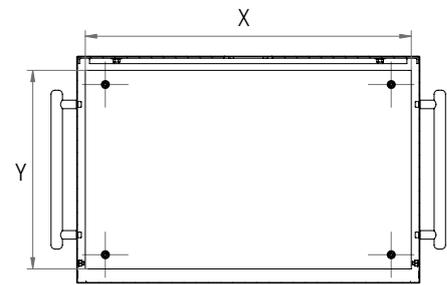


Ø 60 JOINT



WIRING PLATE

(Accessory to be ordered separately)



AVAILABLE SPACE INSIDE THE PENDANT CONTROL PANEL WITH AND WITHOUT THE WIRING PLATE

Code Art.	External dim.			Wiring plate			FEATURES		
	W	H	D	X	Y	Code	No. Closing points	No. Handles	Joint
KC403015	400	300	150	370	250	KP4030	1	2	Ø 48
KC453515	450	350	150	420	300	KP4535	1	2	Ø 48
KC504015	500	400	150	470	350	KP5040	2	2	Ø 60
KC505015	500	500	150	470	450	KP5050	2	2	Ø 60
KC604015	600	400	150	570	350	KP6040	2	2	Ø 60
KC605015	600	500	150	570	450	KP6050	2	2	Ø 60



PENDANT CONTROL PANEL ENCLOSURES KCS “SKIN” SERIES

The Pendant control panel enclosures of the KCS “SKIN” series feature an elegant and ultra-thin (just 100 mm) design and have been created to contain command and control devices near the operator.



FEATURES

- Entirely made of AISI 304L steel (Wnr 1.4307).
- At the back there is an inspectable and removable support acting as a link between the supporting arm and the pendant control panel enclosures.
- To be used in conjunction with the “T” series system of load-bearing arms with the relative GM series rotating joints (machine side) or GS series (Pendant control panel side) and fixed joints GF series to ensure smooth control of the instruments.
- Designed for support with arms featuring a 48 mm and 60 mm diameter.
- Can be assembled with the arm support on the lower or upper side and the door is reversible.
- Body with welded finished corners.
- Door with radial corners, can be opened to at least 120° with internal stainless steel hinges, side locks with stainless steel insert featuring a double flap, welded finished corners.
- FINE external SATIN finish, medium Scotch-Brite type.
- Polyurethane seal with robotised application.
- Ergonomic handle.
- Internal M6x16 stainless steel earthing threaded studs bolts.
- Sheet metal thickness values of the body and door from 12/10 mm to 15/10 mm depending on the size.

OPTIONALS UPON REQUEST

- Drilling as per design.
- Resistant silicone seals, from -50°C to + 180°C.
- Products made with AISI 316L or other special steels.
- Special dimensions.
- Generic and specific accessories.

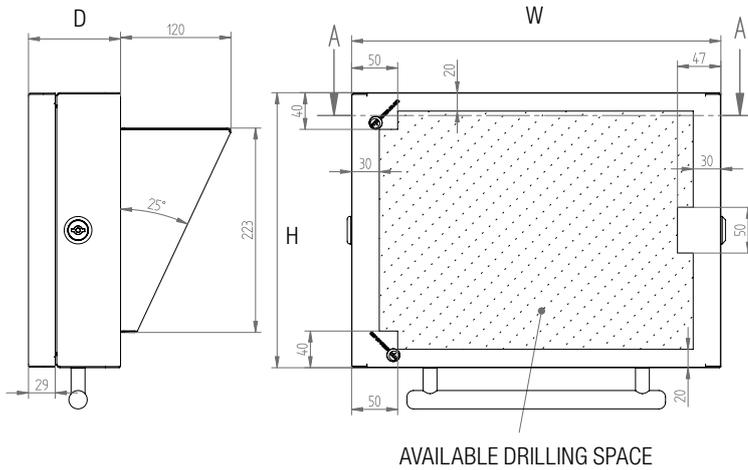
CERTIFICATIONS

- **IP66-IP69K-IK10 protection rating certified by TÜV SUD in accordance with EN 62208.**
- TYPE 1, 12, 4, 4X (cULus) protection rating in accordance with UL50, 508A, 746C and CSA 22.2 No14,94 (upon request).
- Suitable for use in potentially explosive atmospheres (Group -II, Category -3-, Zone -22,2-) with the application of the accessory KIT-ATEXKCS-2-22.
- Welding process qualified in accordance with 15614-1:2012 WPQR (Welding Procedure Qualification Record).

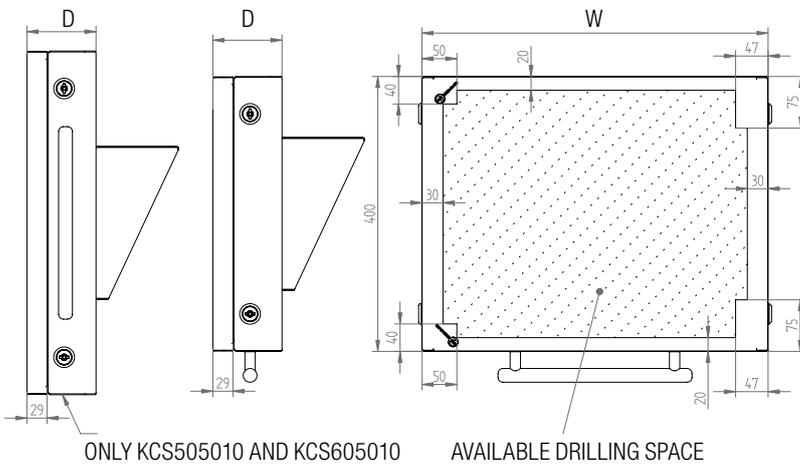


AVAILABLE ACCESSORIES

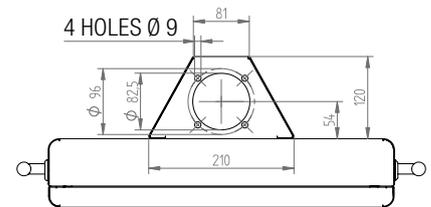
VERSION WITH 1 CLOSING POINT



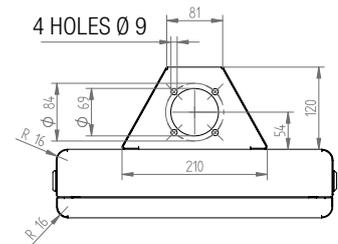
VERSION WITH 2 CLOSING POINTS



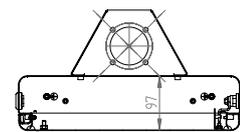
BRACKET FOR Ø 60 JOINT



BRACKET FOR Ø 48 JOINT



AVAILABLE SPACE INSIDE THE PENDANT CONTROL PANEL



Code Art.	External dim.			Features		
	W	H	D	No. Handles	No. Closing points	Shelves
KCS403010	400	300	100	1 bottom one	1	for Ø 48 joint
KCS453510	450	350	100	1 bottom one	1	for Ø 48 joint
KCS504010	500	400	100	1 bottom one	2	for Ø 60 joint
KCS505010	500	500	100	2 side ones	2	for Ø 60 joint
KCS604010	600	400	100	1 bottom one	2	for Ø 60 joint
KCS605010	600	500	100	2 side ones	2	for Ø 60 joint



SUPPORTING SUSPENSION ARMS Y SERIES

Supporting systems consisting of arms and fixed or rotating joints.

To be used in conjunction with our KC and KCS series Pendant control panels items or any other enclosure with an adequate weight and size.



FEATURES

- Supporting arms system, item "T" with a diameter measuring 48 mm and 60 mm, fitted with fixed or rotating joints.
- Entirely made of AISI 304L (WNR 1.4307) with an external satin finish and smooth or sloping surfaces without interstices.
- Designed with a 330° rotation locking system to prevent damage to wiring cables.
- The KC403015, KC453515, KCS403010 and KCS453510 models are designed for supporting arms with a 48 mm diameter.
- The KC504015, KC505015, KC604015, KC605010, KCS504010, KCS505010, KCS604010 and KCS605010 models are designed for supporting arms with a 60 mm diameter.
- The arms are assembled and welded when they are supplied.
- For special applications with strong vibrations, lengths exceeding 1000 mm or heavy weights, it may be necessary to use specific reinforcements applied to the supporting arm.

OPTIONALS UPON REQUEST

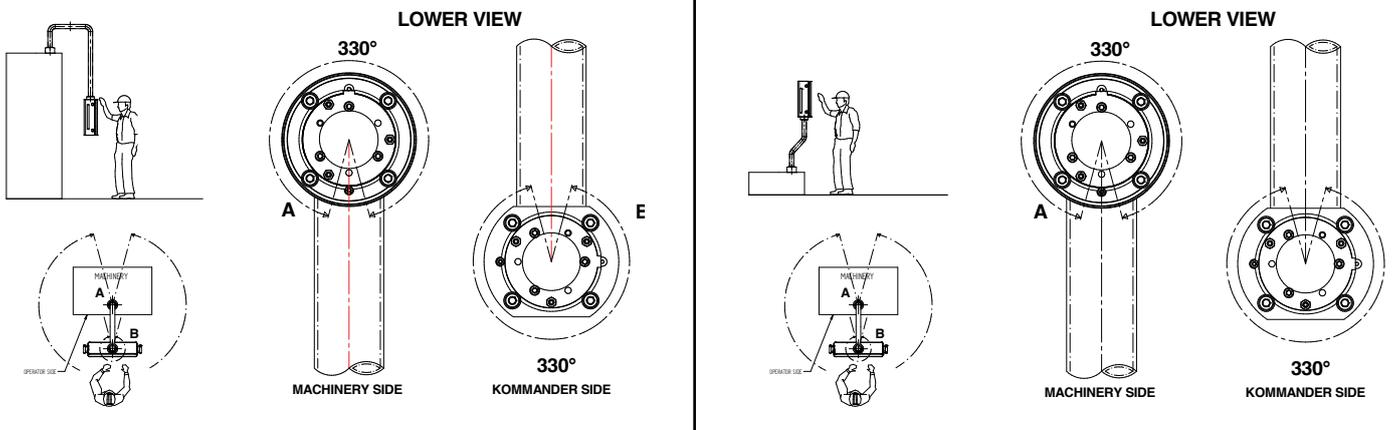
- Length and geometric shape of the arms according to customer specifications..

CERTIFICATIONS

- **IP66-IP69K-IK10 protection rating.**
- Welding process qualified in accordance with 15614-1:2012 WPQR (Welding Procedure Qualification Record).

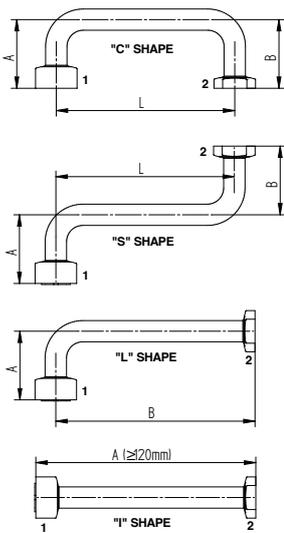


AVAILABLE ACCESSORIES



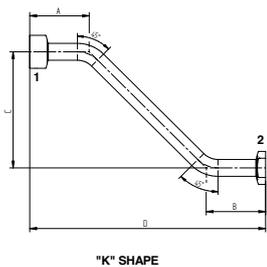
For orders or quotes, we recommend creating the code by using the designated diagram. Check the recommended minimum and maximum size, by specifying which is the machine side and the Pendant control panel side, as the type of joint is different.

(See page 19 and 20 for the type of joint)



Y	ITEM CODE
4	PIPE DIAMETER Ø 48,3
6	PIPE DIAMETER Ø 60,3
C	PIPE SHAPE
S	PIPE SHAPE
L	PIPE SHAPE
I	PIPE SHAPE
****	SIDE "A" LENGHT - MIN. 200 x Ø48 - MIN. 250 x Ø60
****	SIDE "L" LENGHT - MIN. 400
****	SIDE "B" LENGHT - MIN. 200 x Ø48 - MIN. 250 x Ø60
M	MACHINERY SIDE "1" JOINT TYPE - ROTATING BIG
F	MACHINERY SIDE "1" JOINT TYPE - FIXED CHAMFERED
X	NO "SIDE 1" JOINT
S	KOMMANDER SIDE "2" JOINT TYPE - ROTATING CHAMFERED
F	KOMMANDER SIDE "2" JOINT TYPE - FIXED CHAMFERED
X	NO "SIDE 2" JOINT
H	REINFORCEMENT ON MACHINERY SIDE

EX: Y 4 C 0200 - 0400 - 0200 M S H



K	ITEM CODE K
4	PIPE DIAMETER Ø 48,3
6	PIPE DIAMETER Ø 60,3
****	SIDE "A" LENGHT - MIN. 120 x Ø48 - MIN. 130 x Ø60
M	MACHINERY SIDE "1" JOINT TYPE - ROTATING BIG
F	MACHINERY SIDE "1" JOINT TYPE - FIXED CHAMFERE
X	NO "SIDE 1" JOINT
****	SIDE "B" LENGHT - MIN. 120 x Ø48 - MIN. 130 x Ø60
S	KOMMANDER SIDE "2" JOINT TYPE - ROTATING BIG
F	KOMMANDER SIDE "2" JOINT TYPE - FIXED CHAMFERED
X	NO "SIDE 2" JOINT
****	SIDE "C" LENGHT
****	SIDE "D" LENGHT - MIN. (C+220)

ES: K 4 250 M 300 S 0400 - 0800



▶ PLUMP CONSOLE PLP SERIES

The PLUMP Console was created to meet the need to protect industrial PCs and operator panels, the brain and the interface of all industrial monitoring and automation systems.

PLUMP is an innovative multipurpose system, whose enclosure is suitable for any kind of application.

An innovative design, the fact of being easy to clean, the high protection rating and especially the elegance complete the features of the PLUMP system, making it a valuable ally for installers, builders and design engineers in the field of machines and systems for food production and processing, pharmaceuticals, chemicals, as well as the oil and gas sector.

It ensures the operator panel can be integrated with the semiautomatic and manual controls.



FEATURES

- Made of AISI 304L (WNR 1.4307).
- FINE external SATIN finish, medium Scotch-Brite type.
- Available with the console container in 2 different sizes.
- Swivel joint with 330° lock under the enclosure of the console.
- N.02 ergonomic stainless steel side handles.
- N.02 side stainless steel handles with 1/4 of a turn and double flap insert.
- Tilted console for improved ergonomics, with openable and reversible front door.
- Galvanised wiring plate.
- Removable rear flange flush with the sheet metal, without interstices, designed for drilling and installing ventilation systems (natural/forced, air-conditioning).
- Sturdy supporting rod, 60mm diameter.
- Base with removable cable infeed flange.
- Strong, wide base to ensure full safety and stability

OPTIONALS UPON REQUEST

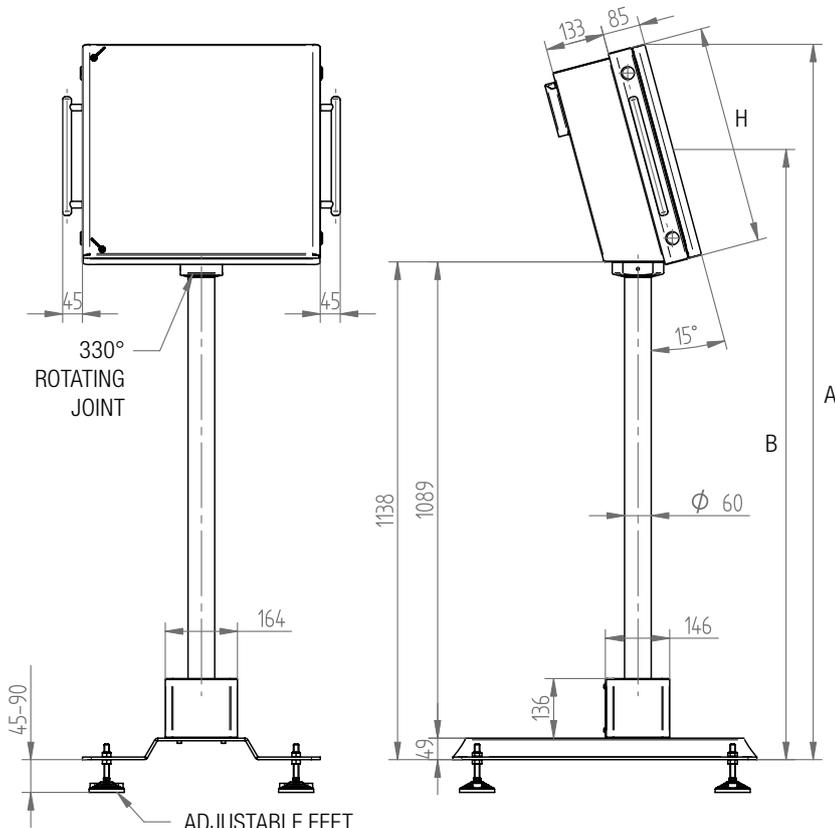
- Drilling as per design.
- Resistant silicone seals, from -50°C to + 180°C.
- Products made with AISI 316L or other special steels.
- Special dimensions.
- Generic and specific accessories

CERTIFICATIONS

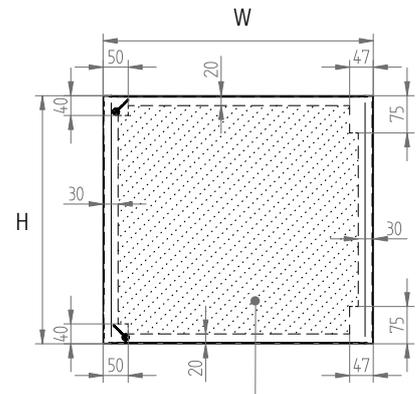
- **IP66-IK10 and IP69-IK10 protection rating in accordance with EN 62208.**
- Welding process qualified in accordance with 15614-1:2012 WPQR (Welding Procedure Qualification Record).



AVAILABLE ACCESSORIES

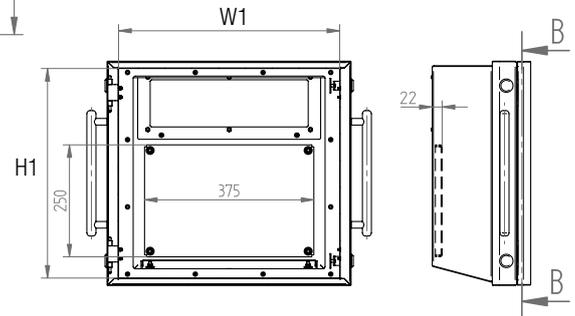


FRONT DOOR DETAIL

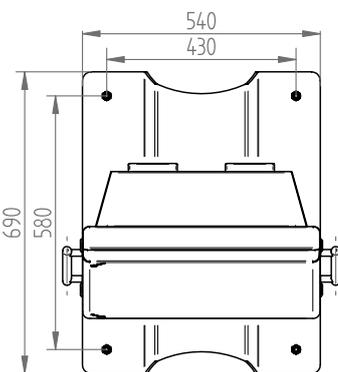
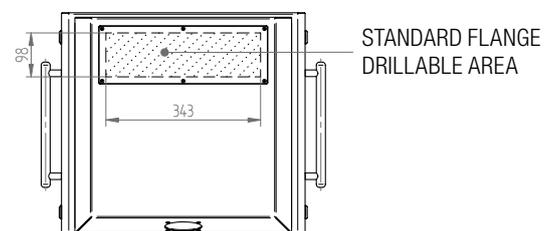


AVAILABLE DRILLING SPACE

WIRING PLATE DETAIL



STANDARD REAR FLANGE DETAIL



Code Art.	Dimensions		Doors	Available front inlet dimensions		Vertical overall dimensions	
	W	H	N°	W1	H1	A	B
PLP5450	540	500	1	485	465	1635	1395
PLP6050	600	500	1	545	465	1635	1395



ACCESSORIES

TRANSPARENT OVERDOOR

KC KCS PLP

Made of AISI 304 L (WNR 1.4307) stainless steel and used to protect the components and devices mounted at the front of the enclosure, ensuring an IP66 IK10 and IP69K IK10 protection rating.

The transparent panel is made of shock-proof LEXAN as standard, but can be replaced with laminated safety glass.

Reversible door opening, i.e. the hinges can be mounted on the right or on the left: in the KC, KCS and PLP series it is 180°, while in the ARCO T and ARCO TS series, it is 90° or 180°, depending on the application.

A 1/4-turn lock installed, entirely made of stainless steel with 3mm double-flap insert, but can be replaced by any kind of lock or insert.



VERSION FOR PENDANT CONTROL PANELS

KC KCS

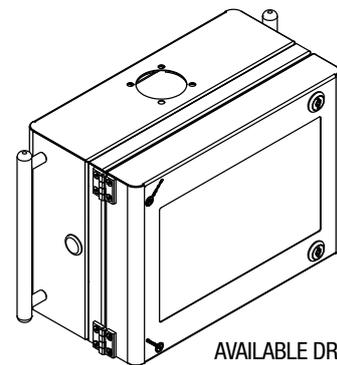
The overdoor is assembled in the factory and must be ordered together with the enclosure.

(The width of the overdoor must be the same as the one of the control panel.)

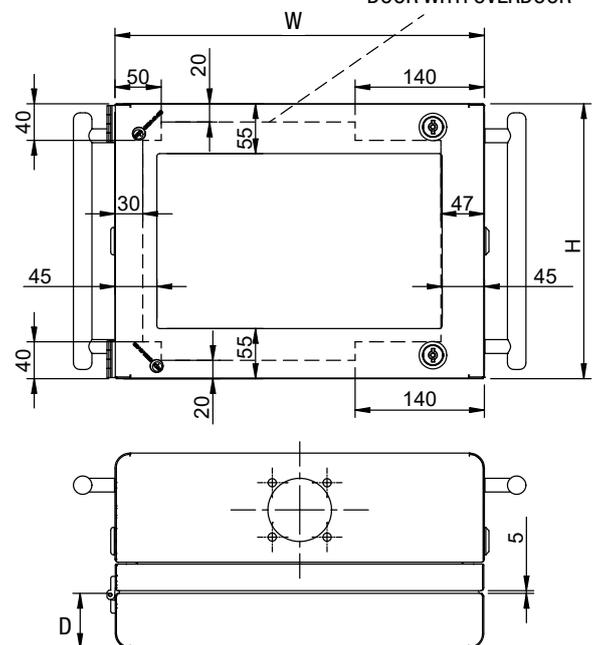
Code	W	H	D
SVK40306	400	300	60
SVK45356	450	350	60
SVK50406	500	400	60
SVK50506	500	500	60
SVK60406	600	400	60
SVK60506	600	500	60

We can supply a kit to be assembled on site, by ordering the SVK_K code individually, consisting of a Pendant control panel door and overdoor.

Easy assembly, carried out directly by the final client.



AVAILABLE DRILLING SPACE ON THE PENDANT CONTROL PANEL DOOR WITH OVERDOOR



VERSION FOR PLUMP CONSOLE

PLP

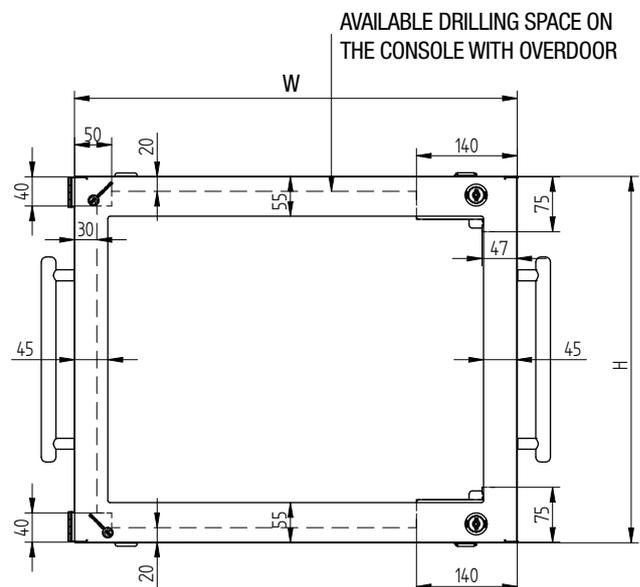
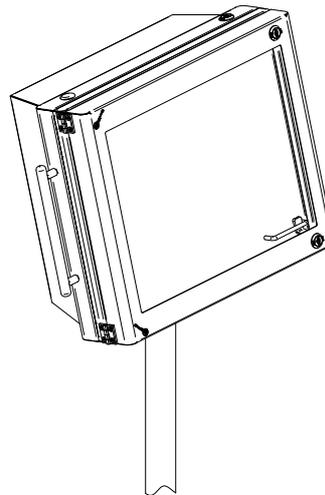
The overdoor is assembled in the factory and must be ordered together with the Console.

Code	W	H	D
SVPLP54506	540	500	60
SVPLP60506	600	500	60

We can supply a kit to be assembled on site, by ordering the SVPLP_K code individually, consisting of a Console door and overdoor.

Easy assembly, carried out directly by the final client.

ACCESSORIES



ACCESSORIES

LOCKS AND KEYS

KC KCS PLP

Keys and locks commonly used for Pendant control panel enclosures, KC and KCS series, ARCO T and ARCO TS series Consoles and PLP series Consoles. Locks and keys with any kind of insert, with ciphering or custom-made can be supplied upon request.



VERSION FOR PENDANT CONTROL PANELS AND CONSOLES

KC KCS PLP

Code	Description
ACC016_KC	STEEL TWIN COMB LOCK STAINLESS STEEL 304 (without key)
ACC016_Q_KC	PANEL INSERT LOCK 8 mm MADE OF STAINLESS STEEL 304 (with key)
ACC016_T_KC	TRIANGLE INSERT LOCK 8 mm MADE OF STAINLESS STEEL 304 (with key)
ACC016_IG_KC	LOCK FOR HYGIENE STANDARDS MADE OF STAINLESS STEEL 316 (with key)
ACC017_1_KC	WING LOCK WITH CIPHERED KEY EK333
ACC017_1_C_KC	CHROMIUM-PLATED WING LOCK WITH CIPHERED KEY EK333
ACC018	BLACK ZAMAK TWIN COMB KEY
ACC020_KC	T-SHAPED POLYAMIDE HANDLE GH=18 mm WITH CIPHERED KEY EK333



ACC016_KC
ACC016



ACC017_1_KC
ACC017_1



ACC016_Q_KC
ACC016_Q



ACC017_1_C_KC
ACC017_1_C



ACC016_T_KC
ACC016_T



ACC018



ACC020_KC
ACC020



ACC016_IG_KC
ACC016_IG

DIAGRAM POCKET

KC KCS PLP

Made of self-adhesive orange plastic for A4-size diagrams.

Code	Description
ACC028	LARGE DIAGRAM POCKET (260X240X30)


SWIVEL WHEELS KIT FOR CONSOLE

PLP

Kit consisting of 2 swivel wheels and 2 swivel wheels with brakes and AISI 304L (WNR 1.4307) stainless steel support and rubber tread.

Code	Description
ARCO_SAC011	SWIVEL WHEELS KIT FOR ARCO T / ARCO TS CONSOLE
PLP_SAC011	SWIVEL WHEELS KIT FOR PLP CONSOLE



ACCESSORIES

LIFTING FEET KIT FOR CONSOLE

PLP

Kit consisting of:

- 4 adjustable feet with M12 rod made of AISI 304L stainless steel
- Articulated polyamide plate that can be anchored to the floor
- Screws for the assembly stage.

Code	Description
PLP_SAC008	KIT OF STAINLESS STEEL/POLYAMIDE FEET (no. 04 feet) H=50/150



BOTTOM TILTED SUPPORT FOR CONSOLE

PLP

For a better use of the console, we provide a simple and elegant stainless steel supporting surface.

Code	Description
PLP_SAC002	ABLAGESATZ FÜR SCHALTPULT



PROTECTION CAPS KIT FOR CONSOLE VENTILATION/FILTERING SYSTEMS

PLP

To ensure correct ventilation for the internal components, the rear closure flange can be replaced with a stainless steel caps kit to protect the grilles ("FIL" series filters) for natural or forced ventilation (filter+fan of the "FAN" series) of a standard size, 115x115.

The PLP_K2HPS115 kit is used to ensure the protection rating is kept up to IP55 and is perfectly integrated into the design of the "PLUMP" console.

Code	Description
PLP_K2HPS115	STAINLESS STEEL CAP FOR FILTER/FAN 115x115 MM



OPEN DOOR LOCKING DEVICE FOR CONSOLE
PLP

Device that keeps the door of the PLP series Console in the open position and prevents accidental closing.

It can be supplied in an assembly kit or pre-assembled upon request.

Assembly on site might require holes or the application of electro-welded studs.



Code	Description
PLP_ACC048	OPEN DOOR LOCK FOR PLP CONSOLE

WIRING PLATE
KC

Wiring plate for KC series Pendant control panel, made of hot galvanised steel sheet.

For the positioning values inside the wall-mounted control container, see the technical drawings of KC models in the catalogue.



Code	Description
KP4030	WIRING PLATE FOR PENDANT CONTROL PANEL KC403015 - W= 370 H=250
KP4535	WIRING PLATE FOR PENDANT CONTROL PANEL KC453515 - W= 420 H=300
KP5040	WIRING PLATE FOR PENDANT CONTROL PANEL KC504015 - W= 470 H=350
KP5050	WIRING PLATE FOR PENDANT CONTROL PANEL KC505015 - W= 470 H=450
KP6040	WIRING PLATE FOR PENDANT CONTROL PANEL KC604015 - W= 570 H=350
KP6050	WIRING PLATE FOR PENDANT CONTROL PANEL KC605015 - W= 570 H=450

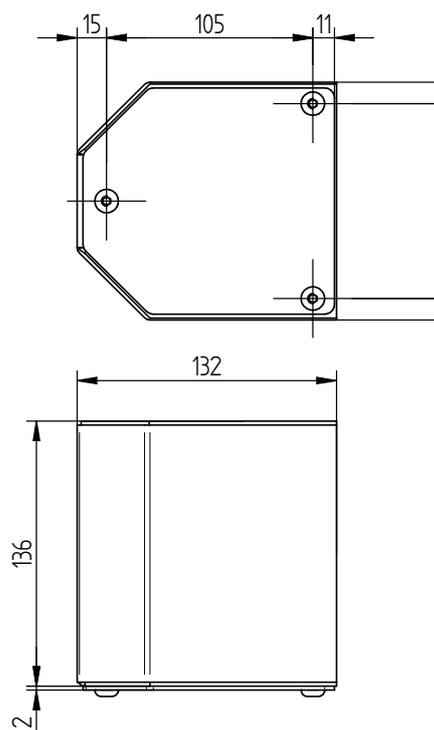
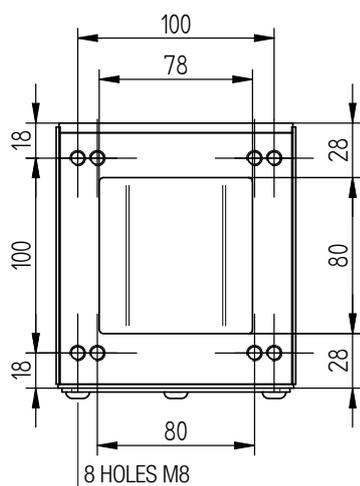
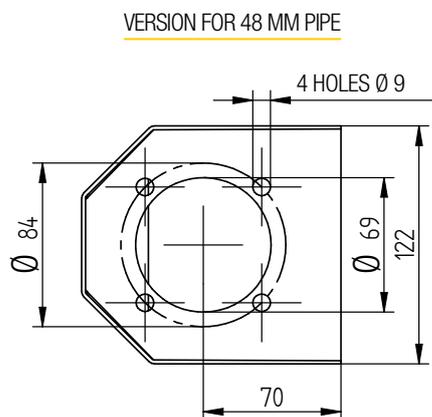
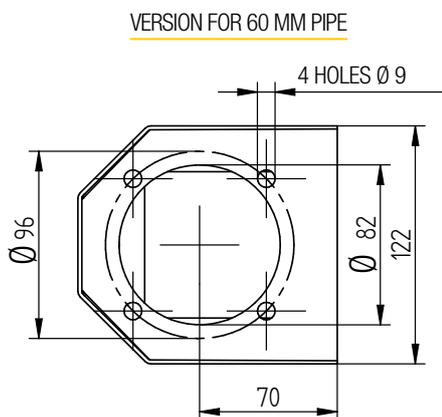
ACCESSORIES

JOINT FIXING BRACKET

KC KCS

Specific stainless steel accessory for vertical wall-mounted pipe.

Code	Description
M48	FOR Ø 48 MM VERTICAL WALL-MOUNTED PIPE
M60	FOR Ø 60 MM VERTICAL WALL-MOUNTED PIPE



JOINTS FOR SUPPORT ARMS

ACCESSORIES

FEATURES

- The O-Ring seal of the couplings has an overlap, which improves the IP rating and isolates the bearing from the external environment.
- The tube fastening system is independent for improved stability.
- All fastenings are dynamometrically tested prior to sale but, can be modified by the user during installation.
- There is only one screw for clamping at 330°; to obtain a 180° clamping, simply add the second screw. As already included in the kit.

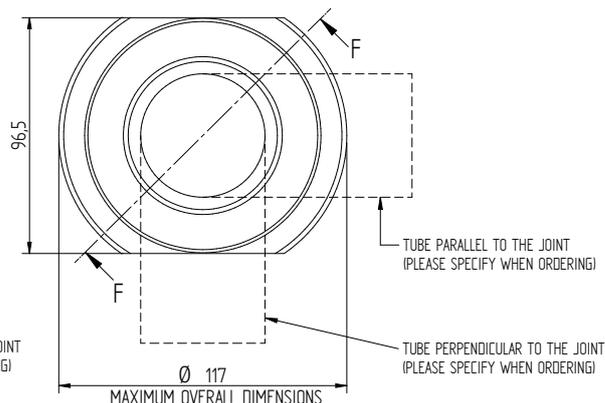
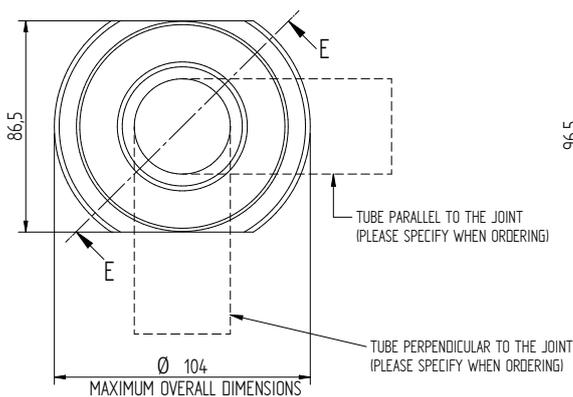
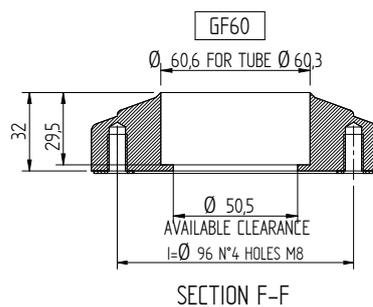
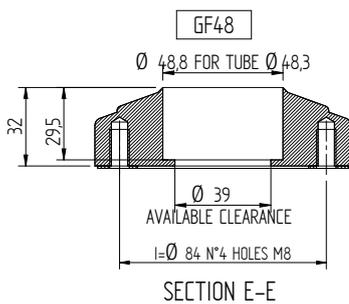
FIXED JOINT

KC KCS

Specific stainless steel accessory that does not allow the rotation of the supporting arm.



Code	Description
GF48	FOR Ø 48 MM PIPE
GF60	FOR Ø 60 MM PIPE





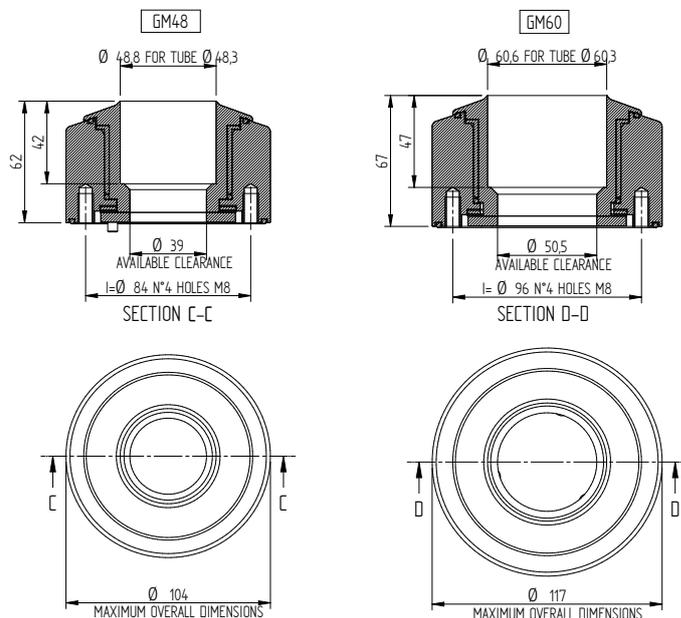
ACCESSORIES

ROTATING JOINT MACHINE SIDE

KC KCS

Specific stainless steel accessory for the pipe on the machine side, which ensures the rotation of the supporting arm and it supports its weight.

Code	Description
GM48	FOR Ø 48 MM PIPE FOR THE MACHINE SIDE
GM60	FOR Ø 60 MM PIPE FOR THE MACHINE SIDE

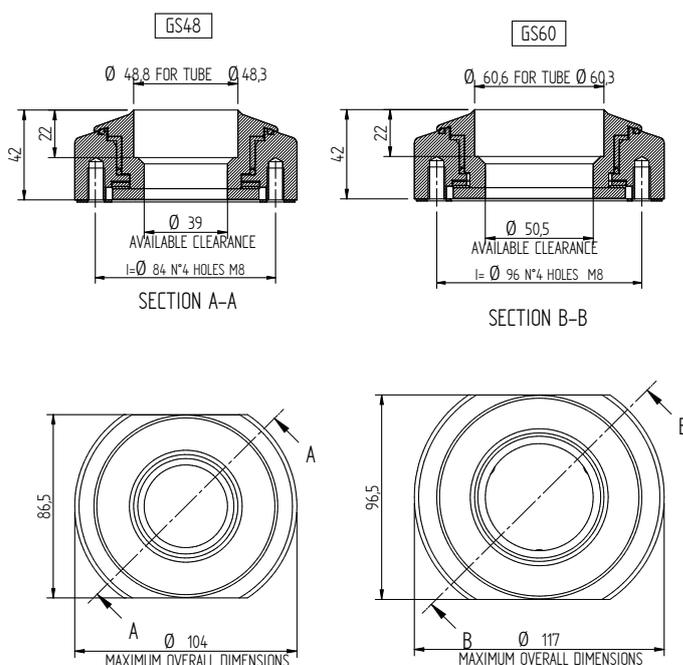


ROTATING JOINT PENDANT CONTROL PANEL SIDE

KC KCS

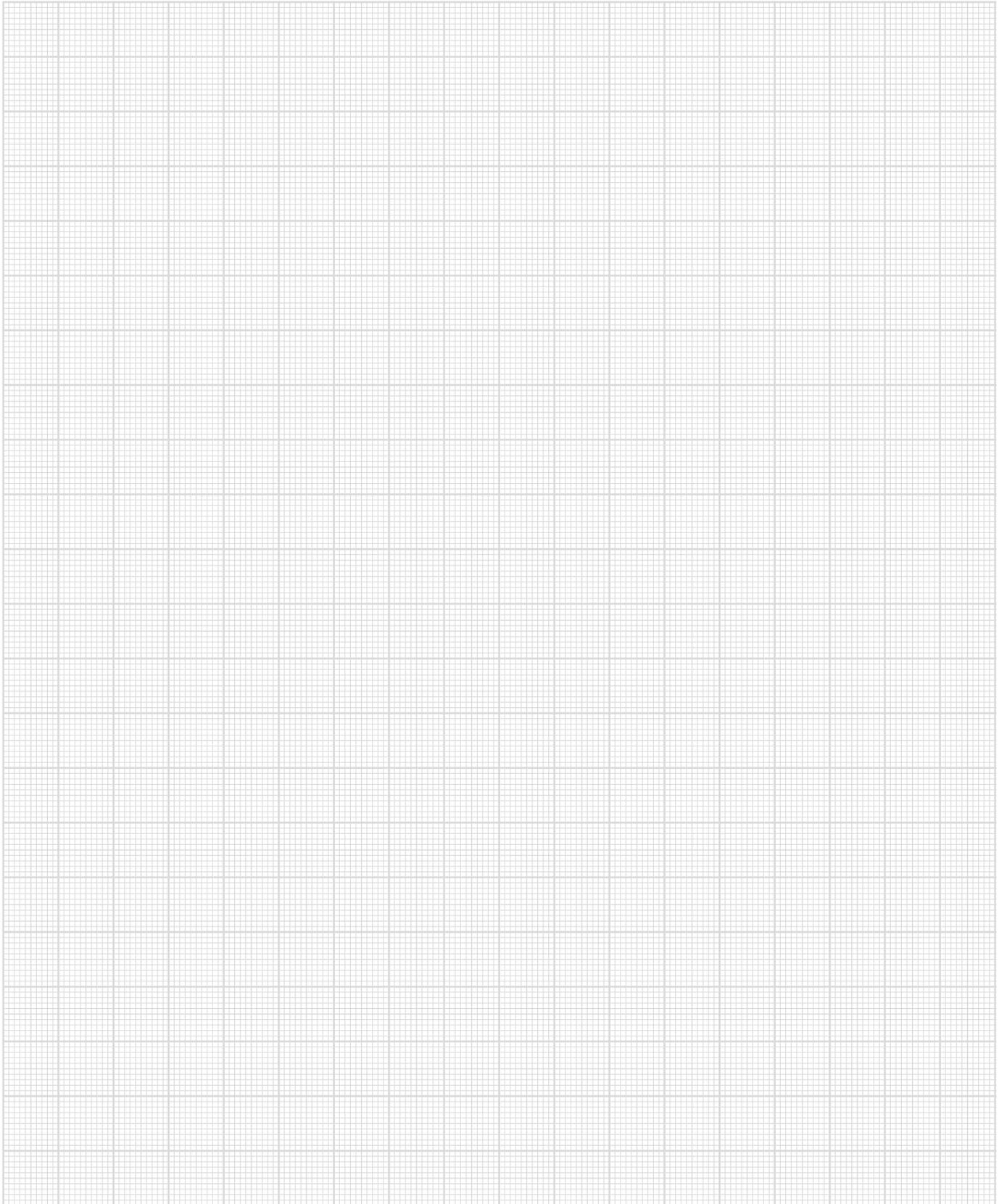
Specific stainless steel accessory for the pipe on the Pendant control panel side, which ensures the rotation of the supporting arm.

Code	Description
GS48	FÜR ROHR Ø 48 MM BEDIENGEHÄUSESEITIG
GS60	FÜR ROHR Ø 60 MM BEDIENGEHÄUSESEITIG

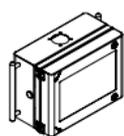




NOTES



ACCESSORIES/PRODUCTS TABLE



KC KCS

TRANSPARENT OVERDOOR
FOR PENDANT CONTROL PANELS

P 12



PLP

TRANSPARENT OVERDOOR
FOR PLUMP CONSOLE

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KC KCS PLP

LOCKS
AND KEYS

P 14



KC KCS PLP

DIAGRAM
POCKET

P 15



PLP

SWIVEL WHEELS
KIT FOR CONSOLE

P 15



PLP

LIFTING FEET KIT
FOR CONSOLE

P 16



PLP

BOTTOM TILTED SUPPORT
FOR CONSOLE

P 16



PLP

PROTECTION CAPS KIT FOR CONSOLE
VENTILATION/FILTERING SYSTEMS

P 16



PLP

OPEN DOOR LOCKING DEVICE
FOR CONSOLE

P 17



KC

WIRING
PLATE

P 17



KC KCS

JOINT FIXING
BRACKET

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KC KCS

FIXED
JOINT

P 19



KC KCS

MACHINE SIDE
ROTATING JOINT

P 20



KC KCS

PENDANT CONTROL PANEL
SIDE ROTATING JOINT

P 20

**ACCESSORIES
PRODUCTS
TABLE**

MPGAMMA S.R.L.

Via Cisa Ligure, 43/A
42041 Brescello (RE) - Italia
Tel: +39 0522 686079
sales@mpgamma.com

www.mpgamma.com