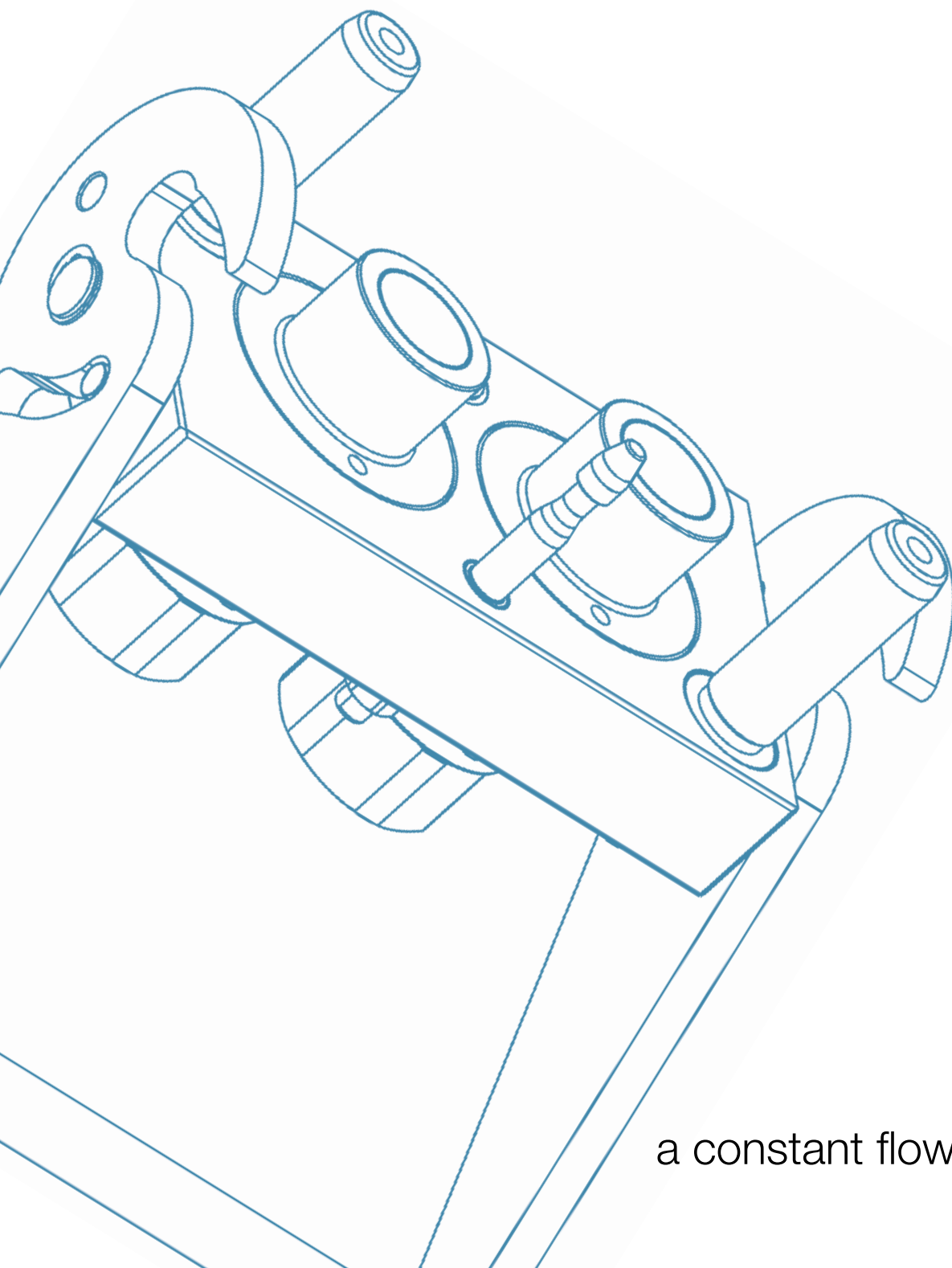




Stucchi®

MULTICOUPLINGS

CATALOG



a constant flow of solutions

PRODUCTS CATALOG

a constant flow of solutions





Since 1960, Stucchi is one of the leading manufacturers of quick disconnect couplings for all varieties of sizes and port configurations, ranging from 1/8" to 2" in dimensions to accommodate a wide range of application requirements.

Pressure capabilities extend to 720 bar operating pressure; port configurations include BSP, NPT, SAE and metric standard in stock; materials range from brass to 316 stainless steel; and there is also an assortment of seal options.



Its solutions-based approach meets the demanding requirements for applications across multiple markets.

Product quality assurance is documented throughout the company's supply chain, beginning with raw materials certifications, ongoing improvements in production materials, automation of production, fatigue testing, pressure-testing parts prior to shipping, and an ISO quality-management system.





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MEDIUM/HIGH
OPERATING PRESSURE

LOW OPERATING
PRESSURE

SPARE
KITS

TECHNICAL
INFO

DP

GR

FAP-ZN

FAP-HP

FAQ

EC

GRE

CS

Custom solutions? Ask Stucchi!

Since 1960 Stucchi has proposed customized and innovative solutions to the market. A continuous search for solutions that have generated a strong competence about the product and its many applications.

**For more information
please contact Stucchi Technical Support.**



Quick Couplings Stucchi Interchange

Select the Brand, the Series, the Part number and Stucchi Interchange will give you the equivalent Stucchi product.

Fill in the form on interchange.stucchi.it and discover the power of this tool.

Technical question? We are here to help you!

Every application is different and it may be challenging to choose the solution that will bring the most value and benefit to your equipment. That's why STUCCHI has a team of product engineers ready to help you to facilitate your work in every step of the process. **From the choice of the most suitable product to the pressure drop calculation or material compatibility check, they are here to assist you in all your design challenges.**

For more information please contact Stucchi Technical Support.

WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.
Connect under pressure products are suitable to be connected under residual (static) pressure.
Never connect or disconnect with dynamic pressure (e.g. pump on).
Make sure that the medium used is compatible with seal and material as indicated for each series.
In case of doubt please contact Stucchi Technical Support.
The interchangeability of quick couplings is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.
It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on Stucchi website (www.stucchi.it) before selecting or using Stucchi products.

ISO 9001, ISO 14001, OHSAS 18001

After certification of occupational health and safety management system (**BS OHSAS 18001:2007**), Stucchi reached another major objective of the company policies through a careful performance of the service for the full compliance with national and international environmental management systems, certifying its model of business organization according to the **UNI EN ISO 14001:2004**.



ISO 9001



ISO 14001



OHSAS 18001

Certifications available on request

The strength that distinguishes Stucchi in the market is a “constant flow of solutions” in the development, manufacturing and distribution of products for fluid connections.

The vision that drives us towards the future is to be recognized by our customers as the supplier of choice for fluid power products and solutions that are easy to use, safe, durable, environmentally friendly and that help in saving energy. Following these principles Stucchi offers solutions that cover a wide range of applications constantly ensuring the quality of products.



Oil&Gas

Stucchi couplings are used in exploration, extraction, field services (upstream), storage and conveyance (downstream) of crude oil and natural gas.



Industry

Stucchi couplings are present on machineries and systems used for industrial manufacturing and applications.



Earth Moving

Stucchi couplings are suitable for systems and products related with controlling mobile equipment used in off-highway applications. Stucchi products have been successfully proven for years in heavy duty applications and in connect under pressure conditions.



Hydraulic Equipment

Stucchi couplings are suitable for machineries and systems related to various hydraulic equipment, such as machine tools and automation, measurement and control and for powered hand tools.



Vehicles

Stucchi couplings are present on vehicles hydraulic applications systems, to connect different tools or trailers. Stucchi products are particularly appreciated by body manufacturers for their high performances and for their ability to withstand heavy duty applications.





Agriculture

From conventional 'poppet design' profile to flat face and multicouplings, Stucchi products are present on agricultural machines and attachments.



High Pressure

Stucchi couplings are present on systems associated with high pressure applications; not only on jacks, ram or clamping devices but also on rescue equipment.



Cooling

Stucchi couplings are used on machines for cooling of systems with water or water glycol.



Refrigeration

Stucchi couplings are present on systems associated with vehicles refrigeration (A/C recharge) and isothermal bodies through low temperature eutectic plates.



Chemical & Food Industry

Stucchi couplings are used in chemical applications where flow performances associated with non-spill design allows to increase system specifications and to protect the environment.





Manual multicouplings are tools that allow the connection and disconnection of several hydraulic power lines, electrical and pneumatic or cooling lines simultaneously.

The connection and disconnection operation requires a simple and quick movement allowing the operator to save time and operate safely.

The multicouplings are equipped with flat face couplings that are designed to reduce contamination entering into a circuit, eliminate spillage, and reduce air inclusion during connection and disconnection of the couplings.

**Stucchi offers a wide range of multicouplings to satisfy the diverse applications requirements.
All the lines can have the same nominal diameter or each line can be different from the others according to the application.**

BENEFITS

- Flexibility, large range of configuration to fulfill different Customer request
- Flat face couplings to reduce contamination of circuits
- Connects with residual pressure
- Mechanical connection eliminates brinelling effect
- Safety lock prevents unwanted disconnection
- Simple to use with a single movement applied by one arm only
- Ease of maintenance or replacement of quick couplings
- Cap and parking station available
- Possible to integrate hydraulic lines along with pneumatic, water cooling or electrical connector in the same multiconnection
- Minimize time to change different attachments
- Eliminate the risk to mismatch the hydraulic connections
- Reduce the assembly space necessary for hydraulic connections
- Easily mounted on new equipment or retrofit on pre-existing system
- Possibility to integrate heater, sensor, indexator key or other devices

Which Multicoupling?



Hydraulic oil power line

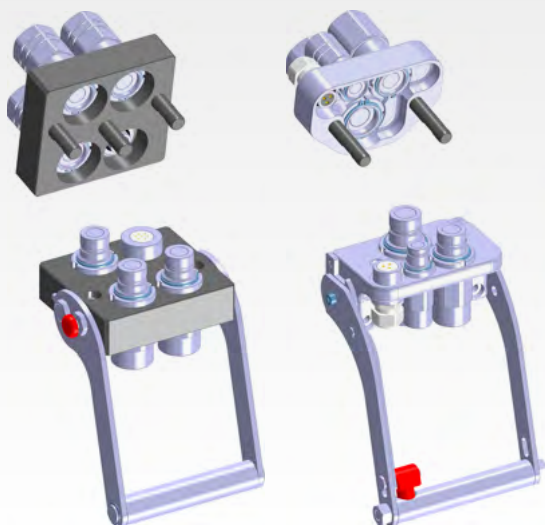
Operating pressure up to
350 bar - 5000 PSI

Connection / Disconnection
under residual pressure

DP/GR

Features

- UP to 10 lines
- Plates in brass or aluminum
- Couplings in carbon steel
- FAQ series: coupling for water/glycol
- Optional: electrical connector, sensors...



Page 14

Water/Glycol - Air/Oil

Operating pressure up to
10 bar - 145 PSI

Connection/Disconnection
without residual pressure

GRE

Features

- UP to 18 lines
- Plates in anodized aluminum
- Couplings in brass
- Designed to be used for hydraulic oil-water/cooling-pneumatic application



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Where Multicoupling?



Agriculture



Oil&Gas



Industry



High Pressure



Cooling



Refrigeration



Earth Moving



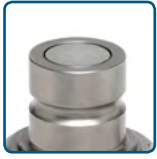
Vehicles



Hydraulic Equipment



Chemical & Food Industry



Flat face

Flat face is easy to clean, helping to reduce the inclusion of contamination in the hydraulic circuit

+ Male & female couplings

Equipped with a patented special valve to connect & disconnect the hydraulic lines. Special couplings available for water cooling or pneumatic lines. The main purpose of the couplings is to convey fluid, hydraulic signals or energy thru the lines and automatically shut off without spillage during disconnection.



Electrical connector

Electrical connector option
Possible to integrate an electrical connector with hydraulic couplings in the same multiconnection. It is a good complement to Stucchi multiconnection adding the possibility to conduct low voltage signal for solenoid valve, sensor or other electronic Customer devices.

Fixed half

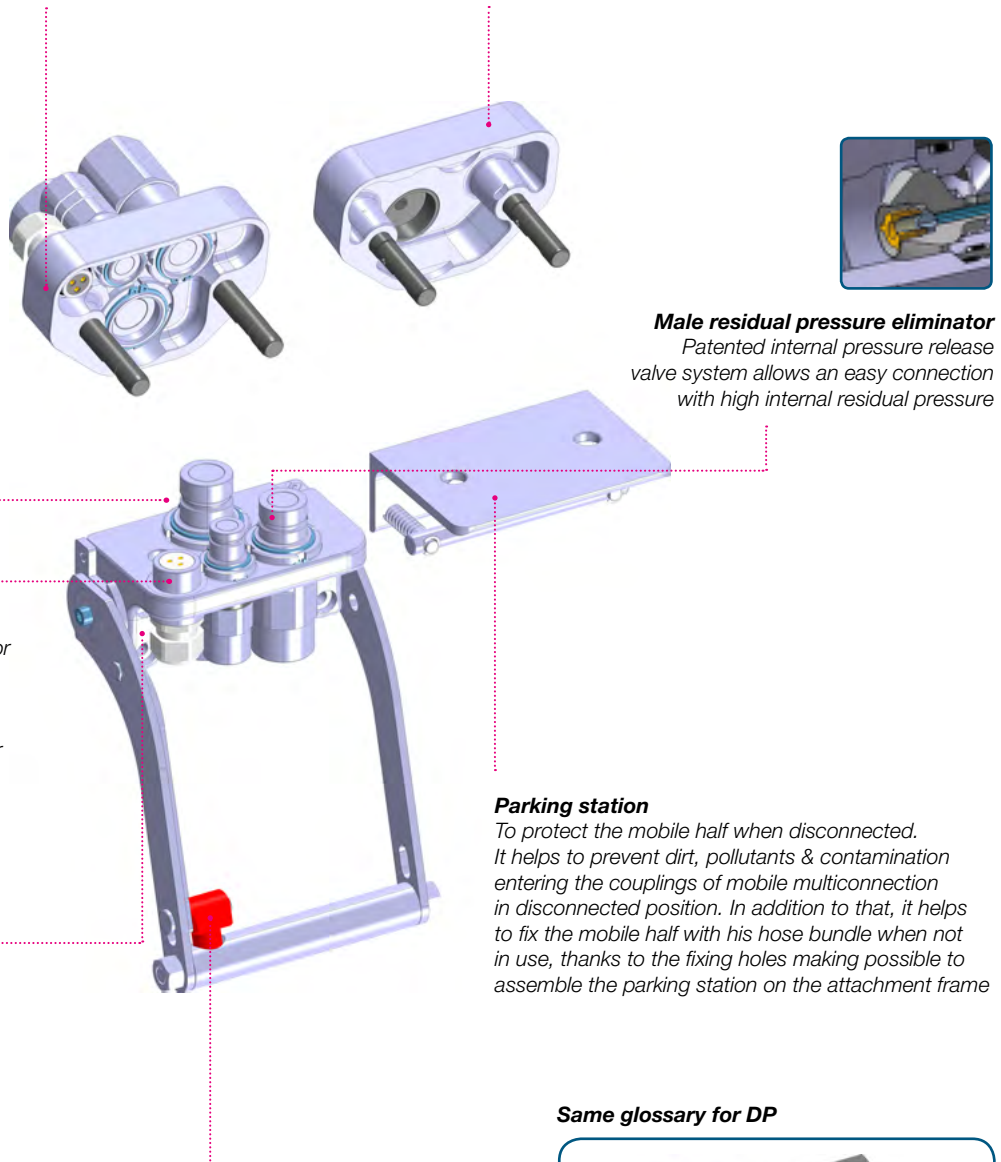
It is called "fixed" because is normally installed on the machine, thanks to the bolting holes to assemble the body on the frame of the Customer equipment. Fixed multiconnection is normally supplied with male couplings installed

Mobile half

It is called "mobile" because is normally installed on the attachment (it is the part with the locking pins). The couplings of the mobile parts are connected to the flexible hose bundle of the attachment, so the mobile part of the Customer equipment.

Cover for fixed multiconnection

Reinforced design made in Aluminum in order to resist to weather conditions. It helps to prevent dirt, pollutants & contamination entering the couplings of fixed multiconnection in disconnected position.



Male residual pressure eliminator

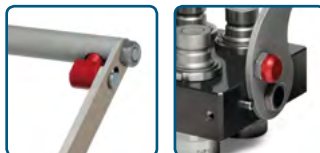
Patented internal pressure release valve system allows an easy connection with high internal residual pressure

Parking station

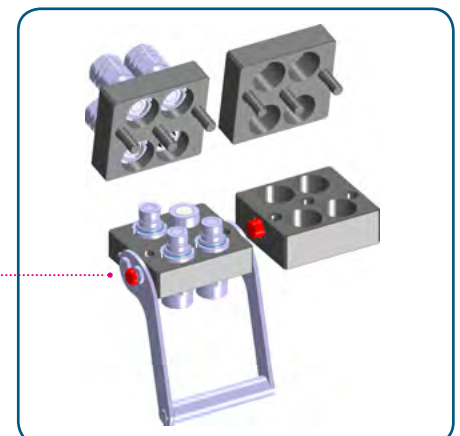
To protect the mobile half when disconnected. It helps to prevent dirt, pollutants & contamination entering the couplings of mobile multiconnection in disconnected position. In addition to that, it helps to fix the mobile half with his hose bundle when not in use, thanks to the fixing holes making possible to assemble the parking station on the attachment frame

Levers & Locking

Ergonomic lever for easy connection/disconnection with Safety lock system avoids accidental disconnection

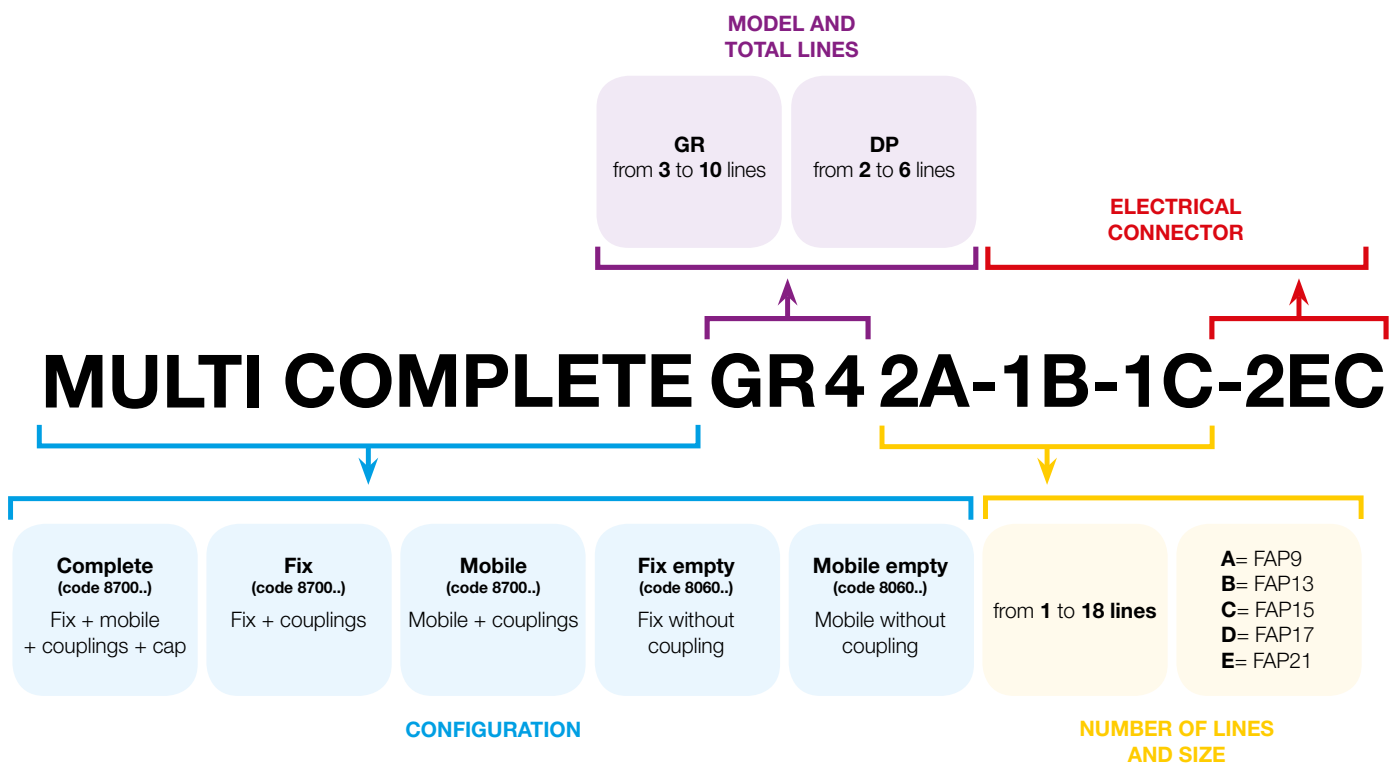


Same glossary for DP



DP - GR: multi description Stucchi®

The stucchi multicoupling description can help you to easily know the characteristics of a multicoupling: configuration and model, number of lines and size, presence of electrical connectors. See the example below...



DP - GR: multi map



New name	Family	Total Lines	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)	EC*		Previous description	Page
Body size			3/8"		1/2"	5/8"	3/4"	1"	1-1/2"	3/8"	1/2"		
Max flow suggested (l/min)			46		90	148	200	378	750				
Mostly used adaptor (main alternative thread)			3/8" (1/2")		1/2" (3/4")	3/4"	1" (3/4")	1-1/4" (1")	1-1/2"				
DP2 2A-1EC	DP	2	2	A						1		DP2-9ZN	30
DP2 2A-2EC V04	DP	2	2	A						2		DP2-9L	32
DP2 2B-1EC	DP	2			2						1	DP2-13ZN	34
DP2 2B-2EC V04	DP	2			2						2	DP2-13L	36
DP2 2C	DP	2				2						DP2-15	38
DP2 2D	DP	2					2					DP2-17ZN	40
DP2 1A-1B	DP	2	1	D	1							DPT2ZN	42
DP3 1A-1B-1EC	DP	3	1	D	1					1**		DPT3ZN	44
DP3 1C-2E	DP	3				1		2				DP3GE	46
DP3 2A-1EC	DP	3	2	A						1**		DPJ3ZN	48
DP4 4A V02	DP	4	4	A								DP4-9FAZN	50
DP4 4A-2EC	DP	4	4	A						2		DP4-9ZN	50
DP4 4B-2EC	DP	4			4						2	DP4-13ZN	52
DP6 4A-2EC	DP	6	4	A						2**		DP6-9ZN	54
DP6 2A-4D-2EC	DP	6	2	D			4			2		DP6AD	56
GR3 3A-1EC	GR	3	3	A						1		GR3-9ZN	58
GR3 3B-1EC	GR	3			3						1	GR3-13ZN	60
GR3 1A-2E-1EC	GR	3	1	D				2		1		GRK3ZN	62
GR3 2B-1C-2EC	GR	3			2	1					2	GRI3	64
GR4 2A-1B-1C-2EC	GR	4	2	D	1	1				2		GRI4SBZN	66
GR4 2A-2B-2EC	GR	4	2	D	2					2		GRB4ZN	68
GR4 2A-1B-1D-2EC	GR	4	2	D	1		1			2		GR4MRZN	70
GR4 2A-1C-1D-2EC	GR	4	2	D		1	1			2		GRI4ZN	72
GR4 2A-2C-2EC	GR	4	2	D		2				2		GRI4TBZN	74
GR5 2B-3D-2EC	GR	5			2		3				2	GR5AAZN	76
GR5 3A-1D-1E-2EC	GR	5	3	D			1	1		2		GRD5ZN	78
GR5 2B-2C-1E-2EC	GR	5			2	2		1			2	GRZ5ZN	80
GR5 5C	GR	5				5						GR5-15ZN	82
GR6 6A-2EC	GR	6	6	A						2		GR6-9ZN	84
GR6 4A-2B-2EC	GR	6	4	D	2					2		GRT6ZN	86
GR6 4B-2D-4EC	GR	6			4		2				4	GR6ABZN	88
GR6 2A-2B-2C-2EC	GR	6	2	D	2	2				2		GRM6MCZN	90
GR6 6B-2EC	GR	6			6						2	GR6-13ZN	92
GR6 3A-1B-1C-1D-2EC	GR	6	3	D	1	1	1			2		GRC6ZN	94
GR6 1A-1B-1C-2D-1EC	GR	6	1	D	1	1	2			1		GRP6ZN	96
GR6 2A-2C-2D-2EC	GR	6	2	D		2	2			2		GRM6ZN	98
GR6 2A-2B-1D-1E-2EC	GR	6	2	D	2		1	1		2		GRU6ZN	100
GR6 2B-4D-2EC	GR	6			2		4				2	GR6LLZN	102
GR6 2A-4C-2EC	GR	6	2	D		4				2		GRM6ALZN	104
GR6 2A-1B-2D-1E-3EC	GR	6	2	D	1		2	1		2	1	GR6AF	106
GR7 4A-3B-4EC	GR	7	4	D	3					4		GR7ABZN	108
GR7 4A-3B-4EC V01	GR	7	4	D	3					4		GR7ABZNLC	108
GRHP7 7A-4EC	GR	7	4	D						4		GR7ACZN	110
			3	"HP"									
GR7 4A-1B-2D-4EC	GR	7	4	D	1		2			4		GR7AAZN	112
GR8 6A-2B-6EC	GR	8	6	D	2					6		GR8ABZN	114
GR8 7A-1D-7EC	GR	8	7	D			1			7		GR8AAZN	116
GR10 10A V01	GR	10	10	D								GR10-9LCZN	118
GR10 10A V03	GR	10	10	D								GR10-9ZNSD	118
GR10 10A-2EC	GR	10	10	D						2		GR10-9ZN	118
GR10 10B-2EC	GR	10			10						2	GR10-13ZN	120

* Electrical Connector instead of hydraulic line

** this line is only dedicated for EC

FAP9 "A" and "D": the version is depending on the type of multicoupling in use.

Step A

Define the type of multicoupling you need

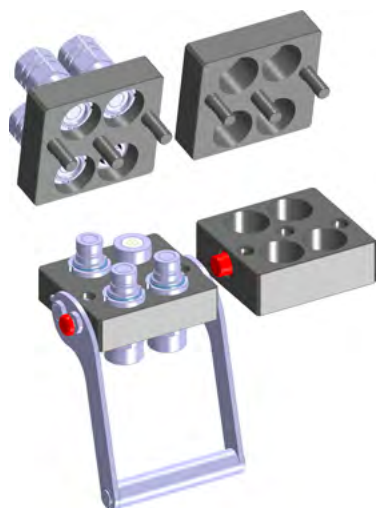
Step B

Choose configuration of the multicoupling

Step C

Set up each line

A. DEFINE THE TYPE OF MULTICOUPLING YOU NEED



DP

Features

- Hydraulic oil power line
- Operating pressure up to 350 bar
- Dis/connection under pressure
- up to 6 lines
- body in aluminium with special treatment
- locking on the side



GR

Features

- Hydraulic oil power line
- Operating pressure up to 350 bar
- Dis/connection under pressure
- up to 10 lines
- body in brass with nickel plating
- locking on the lever

B. CHOOSE CONFIGURATION OF THE MULTICOUPLING



1 Dimension your couplings and EC

Coupling size choice is based on:

- Flow/Pressure drop
- Operating pressure
(check on the FAP-ZN, FAP-HP or FAQ serie datasheet)
- Hose/Port size



2 Define your configuration = List your couplings & EC

Eg: 2 x size 3/8" + 1 x size 13" + 1 EC



3 Choose the multico coupling for your configuration

Use the overview table 'Multi Description' to choose the multico coupling for your listing/ configuration

Advice:

1. You can increase the size of some couplings to have a better match with an existing configuration.
2. In case of too many lines, you may need to divide your configuration in different plates.



4 Verify the resistance of your multico coupling

Use 'Max. Multico coupling Resistance' provided on the single datasheet to be sure that the multico coupling will be able to handle the pressure once connected.

See page 29 for details.

C. SETUP EACH LINE

Hydraulic oil

Connectable under pressure

Medium pressure

FAP-ZN*



Hydraulic oil

Connectable under pressure

High pressure

FAP-HP



Water-Glycol

Not connectable under pressure

Low pressure

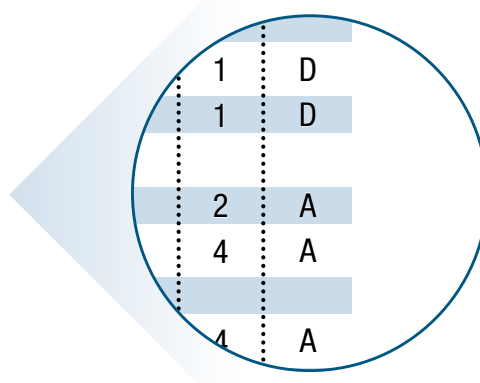
FAQ



Choose your port type (BSP/SAE-ORB/NPT...) and port size

* if size 3/8" check the multicoupling to know if you need a type A or D
(See Multi Map pag. 16)

New name	Family	Total Lines	FAP9 (A)
Body size			3/8"
Max flow suggested (l/min)			46
Mostly used adaptor (main alternative thread)			3/8" (1/2")
DP2 2A-1EC	DP	2	2 A
DP2 2B-1EC	DP	2	
DP2 2B-2EC V04	DP	2	
DP2 2C	DP	2	
DP2 2D	DP	2	
DP2 1A-1B	DP	2	1 D
DP3 1A-1B-1EC	DP	3	1 D
DP3 1C-2E	DP	3	
DP3 2A-1EC	DP	3	2 A
DP4 4A-2EC	DP	4	4 A
DP4 4B-2EC	DP	4	
DP4 4A V02	DP	4	4 A
DP6 4A-2EC	DP	6	4 A
DP6 2A-4D-2EC	DP	6	2 D



Technical features and options



Interchange

Stucchi internal specification



Available threads

BSP NPT SAE



Mechanical connection

Internal cams and locking pins



Valving style

Flat Face



Connection/disconnection system

Rotating the lever after disengage the locking system



Operating pressure

Up to 350 bar/5000 psi



Construction material and surface treatment

Body plates in aluminum alloy with hard oxidation surface treatment for DP; Body plates in brass with nichel plating for GR; lever in carbon steel with zinc nickel plating.



Flow rate

Up to 378 L/Min - 100 GPM



Nominal diameter available

FAP9=3/8", FAP13=1/2", FAP15=5/8", FAP17=3/4", FAP21=1"



Temperature

from -20 °C to +100 °C
(from -4 °F to +212 °F).



Connection under pressure

Connectable with residual pressure in both sides with FAP-ZN couplings

Application



Agriculture



Oil&Gas



Industry



High Pressure



Cooling



Refrigeration



Earth Moving



Vehicles



Hydraulic Equipment



Chemical & Food Industry

Benefits

- Optimal solution for hydraulic fluid power applications with a operating pressure up to 350 bar.
- Quick connection and disconnection of up to ten hydraulic, electrical and pneumatic lines without any risk to incorrect connection of the lines.
- Ergonomic lever for easy connect/disconnect with residual pressure.
- Patented coupling design to connect/disconnect multiple couplings with high residual pressure.
- Flat face couplers eliminate environmental issue of leakage.
- No risk of misalignment or misconnection with guide pin design.
- Couplers mounted with snap rings for ease of installation or replacement.
- Fixed half male couplers interchangeable with FIRG or A series flat face coupling for temporary diagnostic purpose.
- Electrical connector option for electronic control systems.
- Easily mounted on new equipment or retrofit on pre-existing system.

Installation

- Ensure the space to assemble the multiconnection is enough to allow the correct connection & disconnection in an ergonomic way. Check the drawing of the multiconnection referring to the corresponding datasheet.
- For GR version: If the fixed multiconnection has the couplings assembled in the holes: disassemble the couplings close to the fixing holes prior to proceed with the installation.
- Attach the fixed multicoupling on the machine using fixing screws as indicated in the drawing below.
- After having assembled the couplings on the hoses, place the couplings in the holes of the multicoupling and lock them using proper threaded sleeve and/or seeger/snap rings. Please refer to corresponding FAP-ZN or FAQ coupling series datasheet for further information.
- Use flexible hoses to connect the couplings; avoid to using rigid pipes as they could transmit excessive side load & vibration to the multiconnection.

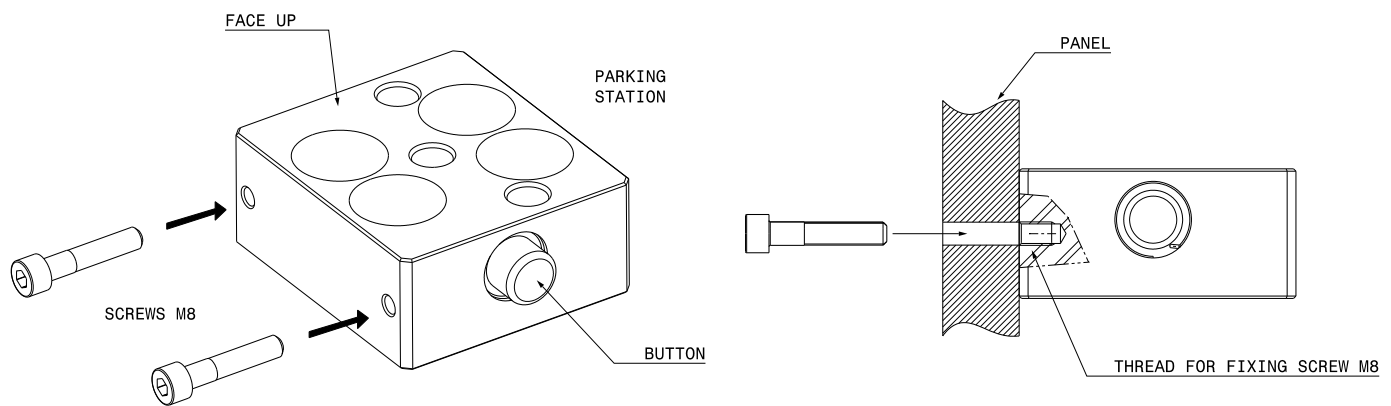
To install the parking station

Ensure the space to assemble the parking station is enough to allow the correct connection & disconnection in an ergonomic way. Check the drawing of the parking station.

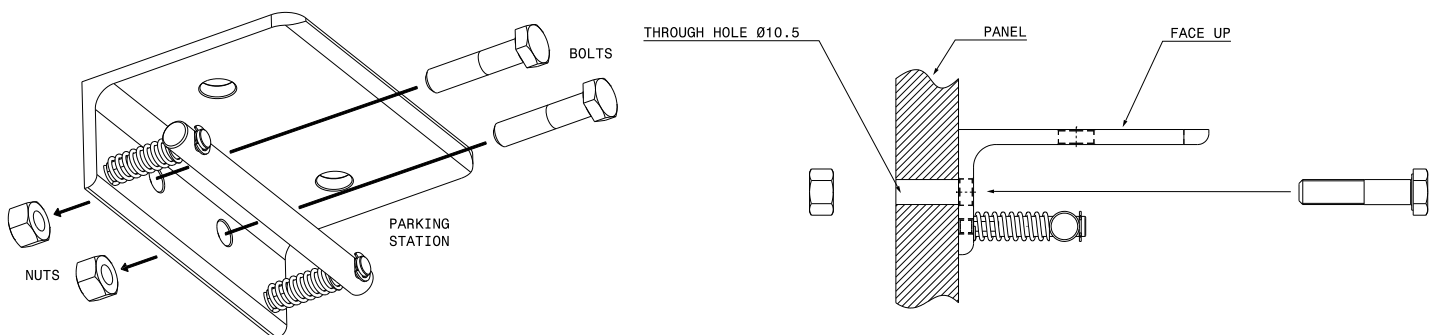
Fix the parking station body on the machine or the frame of the attachment using fixing screws as indicated in the drawing of the corresponding parking station.

Please verify the parking station is placed "face up".

DP

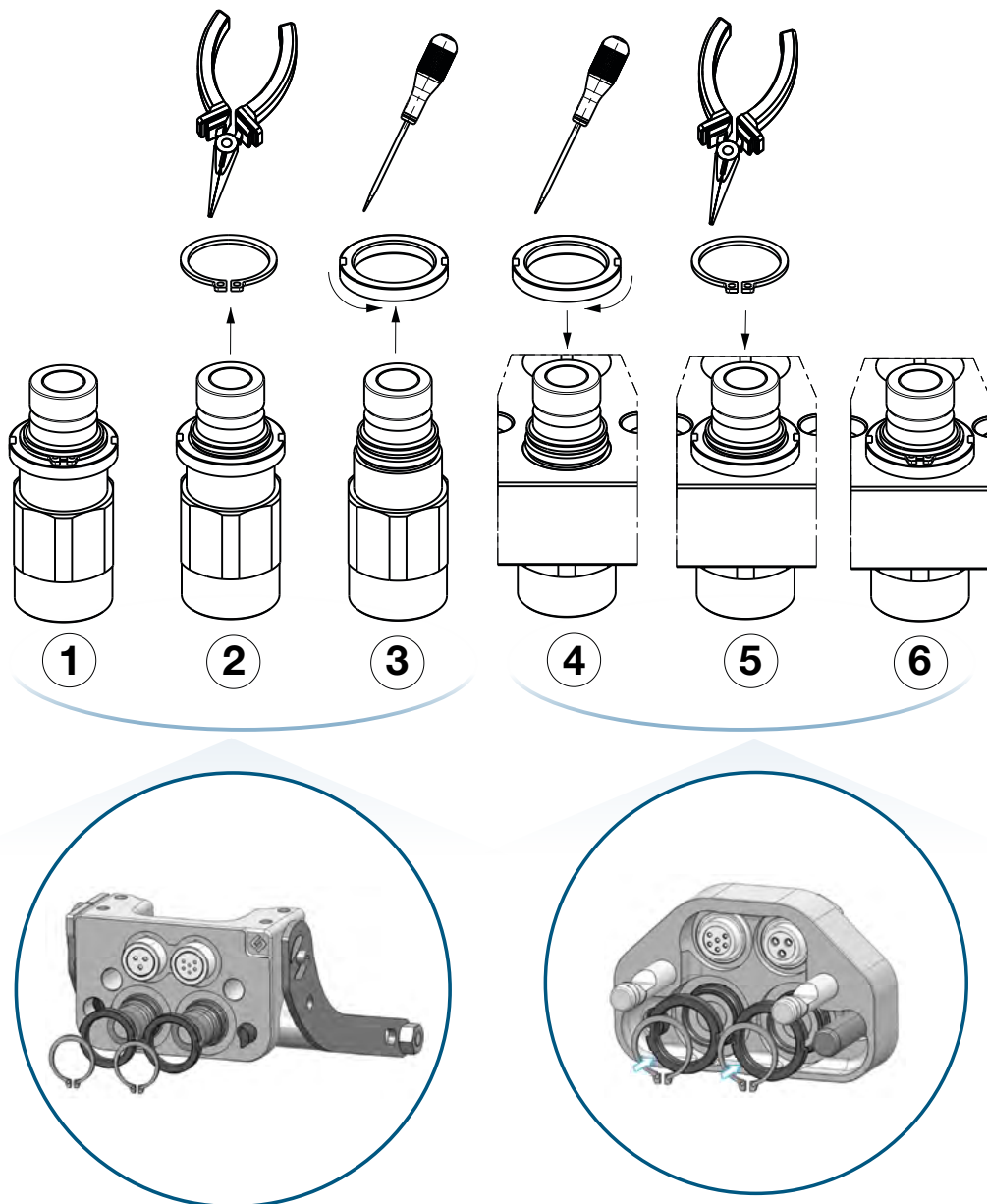


GR



FAP-ZN: How to install

- FAP-ZN couplings are normally supplied already assembled on the Stucchi multiconnection or may be supplied as a spare part to be replaced on a Stucchi multiconnection.
- To assemble the FAP-ZN couplings on the multiconnection: take away the seeger ring, unscrew the threaded nut, mount the flexible hose on the threaded port (screwing with the proper torque), insert the coupling in the hole of the multiconnection; screw the threaded nut with a manual torque (an overtorque is not necessary!) then assemble the seeger ring to lock the threaded nut (fig. below 1...6) .
- To disassemble the FAP-ZN couplings from the multiconnection: take away the seeger ring, unscrew the threaded nut, extract the coupling from the hole of the multiconnection (fig. below viceversa 6 to 4) then proceed to disassemble the flexible hose from the threaded port.
- Before connecting clean the flat mating surface of coupling to avoid inclusion of contamination in the circuit.
- Connect and disconnect in according to the instruction of use for multicoupling.
- Test the correct functioning of the couplings



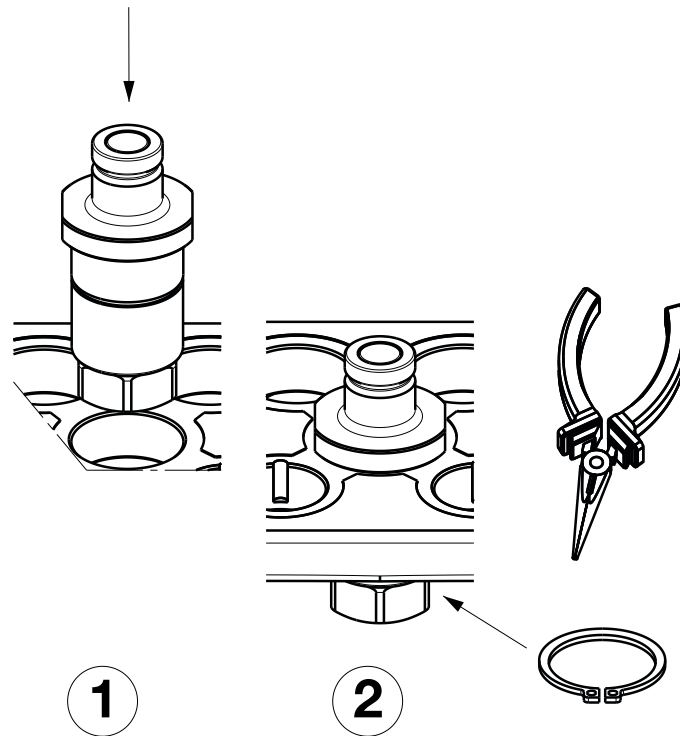
WARNING

During the assembly/dismantling of the quick couplings, be careful to not deform the seeger rings. If deformed, replace them.



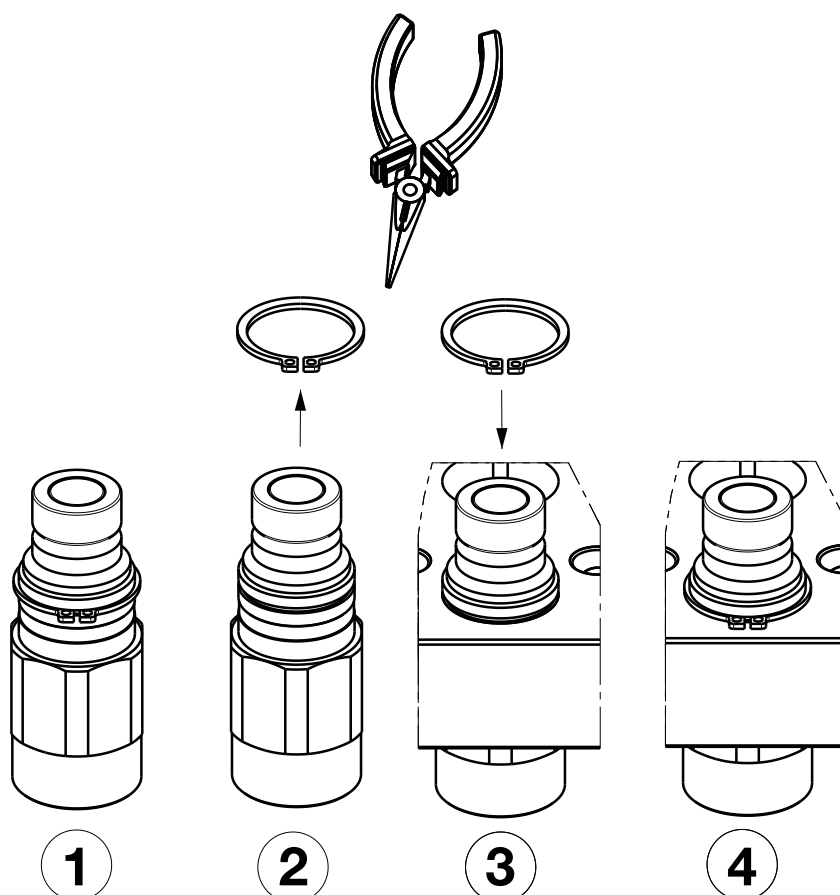
FAP-HP: How to install

- FAP-HP couplings are normally supplied already assembled in the Stucchi multiconnection or may be supplied as a spare part to be replaced on a Stucchi multiconnection.
- To assemble the FAP-HP couplings in the multiconnection: take away the seeger ring on the back side of the male & female, insert the coupling in the hole of the multiconnection then assemble the seeger ring on the back of side to lock the couplings in the plates, mount the flexible hose on the threaded port (screwing with the proper torque), (fig. below 1...2) .
- To disassemble the FAP-HP couplings from the multiconnection: take away the seeger ring from the back side of male & female then proceed to disassemble the flexible hose from the threaded port. , extract the coupling from the hole of the multiconnection (fig. below reverse process)
- Before connecting clean the flat mating surface of coupling to avoid inclusion of contamination in the circuit.
- Connect and disconnect in according to the instruction of use for multicoupling.
- Test the correct functioning of the couplings



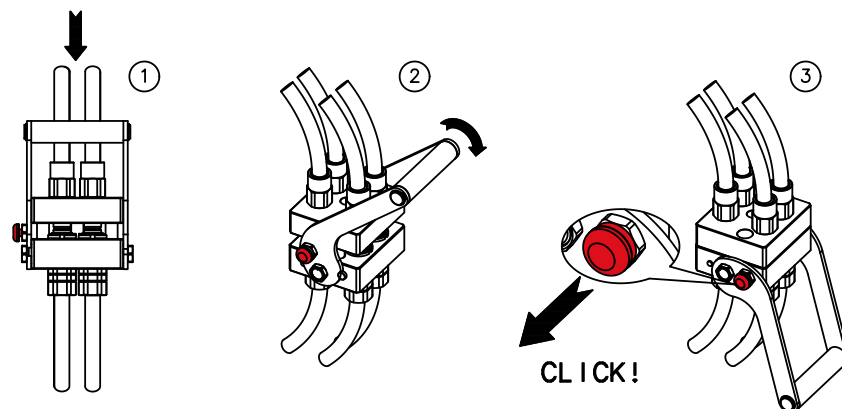
FAQ: How to install

- FAQ couplings may be fitted in the same holes of FAP-ZN couplings; read the table on the specific multiconnection as described below:
- FAP9A: in the hole may be assembled the FAQ9A coupling
- FAP9D: in the hole may be assembled the FAQ9D coupling
- FAP13 or FAP15 or FAP17 or FAP21 : in the hole may be assembled respectively FAQ13,15,17,21 coupling.
- FAQ couplings are normally supplied already assembled on the Stucchi multiconnection or may be supplied as a spare part to be replaced on a Stucchi multiconnection.
- To assemble/disassemble the FAQ couplings on the multiconnection: take away the seeger ring from the groove, assemble the flexible hose on the threaded port, insert the coupling in the proper hole of the multiconnection; then assemble the seeger ring to lock the FAQ in the multiconnection. Follow the sequence shown in the drawing below from 1 to 4 for assembly operation; to disassemble follow the same sequence but viceversa from 4 to 1.
- Be careful during the assembly of the seeger ring: if damaged replace it with a new one.
- Before to couple clean the flat mating surface of quick coupling to avoid the inclusion of dirty in the circuit.
- Connect and disconnect in according to the instruction of use for multicoupling.



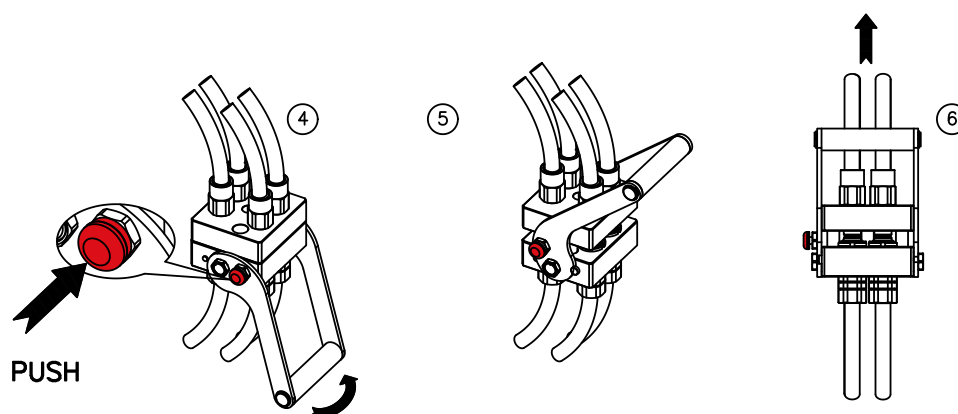
To connect

- Before coupling, clean the flat mating surface of the couplings to avoid inclusion of dirt in the circuit.
- Insert the guidance pins of the mobile multicoupling into the holes of the fixed multicoupling and move the mobile half till the contact of the couplings faces (fig. 1).
- Acting on the handle turn the lever in the direction of the fixed multicoupling (fig. 2).
- Continue to rotate till the safety lock automatically engage itself (fig. 3).
- Now the multicoupling is coupled and ready to work.
- In case of connection with residual pressure in the circuit, the maximum force is required only for the last third of the connection.



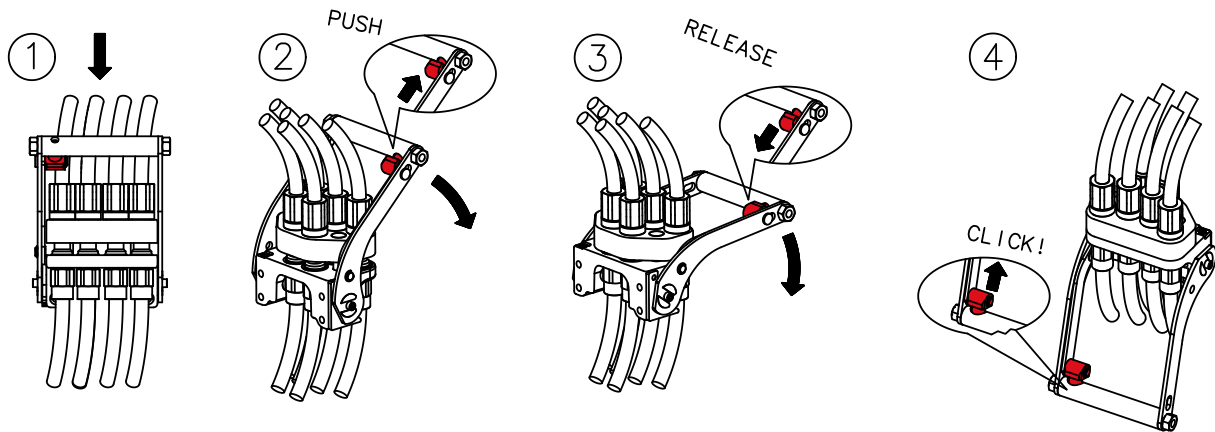
To disconnect

- Push the red safety button, at the same time acting on the handle turn the lever in the direction of the mobile multicoupling (fig. 4).
- Continue to rotate till the mechanical stop of the levers (fig. 5).
- Now the multicoupling is uncoupled and it is possible to pull out the mobile half (fig. 6).
- In case of disconnection with residual pressure in the circuit, the maximum force is required only for the first third of the disconnection.



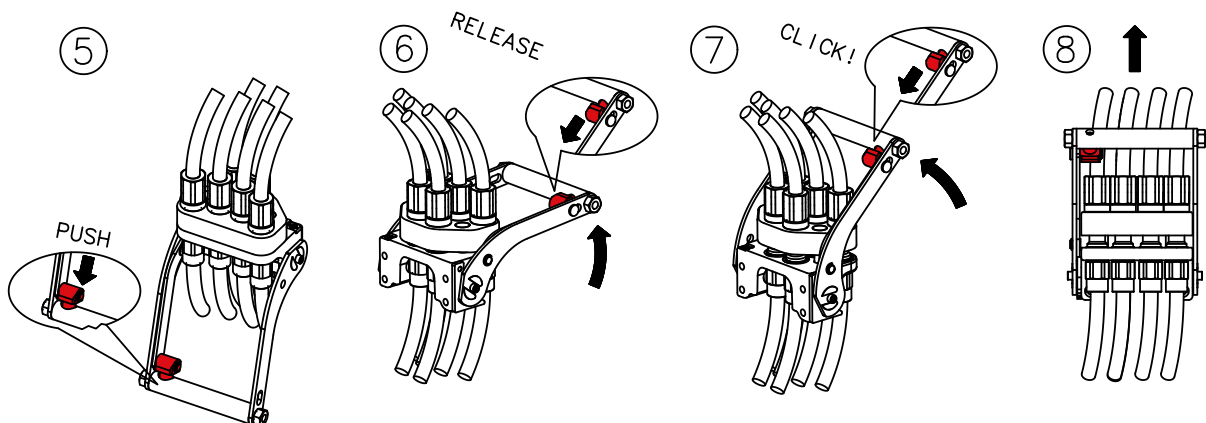
To connect

- Before coupling, clean the flat mating surface of the couplings to avoid the inclusion of dirty in the circuit.
- Insert the guidance pins of the mobile multicoupling into the holes of the fixed multicoupling and move the mobile half till the contact of the couplings faces (fig. 1).
- Push the red safety button to unlock the rotation of the lever, and in the same time acting on the handle turn the lever in the direction of the fixed multicoupling (fig. 2).
- After a short rotation release the red button (fig.3).
- Continue to rotate till the safety lock automatically engage itself (fig. 4).
- Now the multicoupling is coupled and ready to work.
- In case of connection with residual pressure in the circuit, the maximum force is required only for the last third of the connection.



To disconnect

- Push the red safety button, at the same time acting on the handle turn the lever in the direction of the mobile multicoupling (fig. 5).
- After a short rotation release the red button (fig. 6).
- Continue to rotate till the mechanical stop of the levers (fig. 7).
- Now the multicoupling is uncoupled and it is possible to pull out the mobile half (fig. 8).
- In case of disconnection with residual pressure in the circuit, the maximum force is required only for the first third of the disconnection.



Resistance

All Stucchi multicouplings have been tested at their maximum resistance by impulse pressure test (for 200.000 cycles in according with ISO 7241-2; 100.000 cycles for model GRHP7 7A-4EC).

The maximum resistance (N) for each multicoupling model, is indicated in the data sheets.

The force applied to multicoupling coupled, depends on the number of couplings under pressure at the same time, on their operating pressure and on their size. For a correct use of the multicoupling it is necessary to verify that the force is not higher than the maximum resistance of the multicoupling.

$$F = [(P3/8 \times S3/8) + (P1/2 \times S1/2) + (P5/8 \times S5/8) + (P3/4 \times S3/4) + (P1 \times S1)] \times 10$$

F = Force applied to multicoupling (N)

P = Total amount of operating pressure coupled in the couplings with same size (bar)

S = Hydrostatic pushing area coupled (cm²)

The operating pressure for a single coupling must not be higher than the maximum operating pressure coupled indicated in table.

Coupling size	Hydrostatic pushing area coupled	Maximum operating pressure coupled for FAP-ZN couplings
FAP-ZN9 - 3/8	S3/8= 1,226 cm ²	35 Mpa (350 bar)
FAP-ZN13 - 1/2	S1/2= 1,893 cm ²	33 Mpa (330 bar)
FAP-ZN15 - 5/8	S5/8= 2,404 cm ²	33 Mpa (330 bar)
FAP-ZN17 - 3/4	S3/4= 3,298 cm ²	33 Mpa (330 bar)
FAP-ZN21 - 1	S1 = 4,335 cm ²	30 Mpa (300 bar)

Example

Max. resistance of 870015092 MULTI COMPLETE GR6 2A-2C-2D is 23000 N.

To verify if 870015092 MULTI COMPLETE GR6 2A-2C-2D multicoupling resists to operating condition of following application:

One line size 3/8 with max. operating pressure coupled of 30 Mpa (300 bar)

One line size 3/8 with max. operating pressure coupled of 15 Mpa (150 bar)

One line size 5/8 with max. operating pressure coupled of 25 Mpa (250 bar)

One line size 5/8 with max. operating pressure coupled of 10 Mpa (100 bar)

One line size 3/4 with max. operating pressure coupled of 20 Mpa (200 bar)

One line size 3/4 with max. operating pressure coupled of 5 Mpa (50 bar)

It is necessary verify that F (force applied to multicoupling) is not greater than max. multicoupling resistance:

$$P3/8 = 300 \text{ bar} + 150 \text{ bar} = 450 \text{ bar}$$

$$P5/8 = 250 \text{ bar} + 100 \text{ bar} = 350 \text{ bar}$$

$$P3/4 = 200 \text{ bar} + 50 \text{ bar} = 250 \text{ bar}$$

$$F = [(P3/8 \times S3/8) + (P5/8 \times S5/8) + (P3/4 \times S3/4)] \times 10 =$$

$$F = [(450 \times 1,226) + (350 \times 2,404) + (250 \times 3,298)] \times 10 =$$

$$F = [551.7 + 841.4 + 824.5] \times 10 = 22.176 \text{ N}$$

Being F (21732 N) lower than max. multicoupling resistance (23000 N), the 870015092 MULTI COMPLETE GR6 2A-2C-2D multicoupling is suitable for this application.

! WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.

Never connect or disconnect with dynamic pressure (e.g. pump on).

Do not use the female coupling disconnected with high impulse pressure.

Do not couple-uncouple with flow and/or pressure in the circuit.

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).

Check the maximum allowable operating pressure of the port in use.

Make sure that the medium used is compatible with seal and material as indicated for each series.

In case of doubt please contact Stucchi Technical Support.

It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on Stucchi website (www.stucchi.it) before selecting or using Stucchi products.

Do not force the lever without pushing the red safety button.

Do not use extensions or other tools to ease the rotating of the lever.

Do not connect the fixed half with the mobile half if dirt or other material (tool, finger) is between them

Pay attention during the connection not to put finger or other body parts between the plates

We advise to assemble the multiconnection with the female face down in order to allow water or moisture to be drained easily.

Do not exceed single coupling performance and total multiconnection resistance of the multiconnection (please refer to dedicated datasheet)

Read&follow also the corresponding catalogue of the coupling and/or electrical connector in use in the multiconnection.

When the multicoupling is disconnected, it is suggested to use the protection cover for the fixed half and the parking station for the mobile half.

Do not modify, disassemble or damage the multiconnection, part of it or coupling/electrical connector, the lever or safety lock system.

Stucchi Multiconnection GR&DP are intended to be used for hydraulic oil applications: do not use the products for dangerous, inflammable or explosive fluids (Example: heat transfer oil at very high temperature, steam ...).

Stucchi Multiconnection GR&DP are intended to be used for hydraulic oil applications with limitations given by NBR seal compatibility&temperature range.

Do not use GR&DP series multiconnection for very high temperature applications.



Multicouplings

DP **30**



Valving style: **Flat face**
Interchange: **Stucchi interface**
Available sizes: **From 3/8" to 3/4"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 378 L/Min**
Material: **Aluminium & high strength carbon steel**
Connection system: **Lever**
Connection under pressure: **Both sides, easy connection**

GR **58**



Valving style: **Flat face**
Interchange: **Stucchi interface**
Available sizes: **From 3/8" to 1"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 378 L/Min**
Material: **Brass & high strength carbon steel**
Connection system: **Lever**
Connection under pressure: **Both sides, easy connection**

Couplings

FAP-ZN Series **123**



Valving style: **Flat face**
Interchange: **Stucchi interface**
Available sizes: **From 3/8" to 1"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 378 L/Min**
Material: **High strength carbon steel**
Connection system: **By multicoupling**
Connection under pressure: **Both sides, easy connection**

FAP-HP Series **131**



Valving style: **Flat face**
Interchange: **Stucchi interface**
Available sizes: **3/8"**
Operating pressure: **Up to 720 bar**
Flow rate: **Up to 46 L/Min**
Material: **High strength carbon steel**
Connection system: **By multicoupling**
Connection under pressure: **Both sides, easy connection**

FAQ Series **137**



Valving style: **Flat face**
Interchange: **Stucchi interface**
Available sizes: **From 3/8" to 3/4"**
Operating pressure: **Up to 20 bar**
Flow rate: **Up to 200 L/Min**
Material: **High strength carbon steel**
Connection system: **By multicoupling**
Connection under pressure: **Not allowed**

Electrical connector

EC **145**



Interchange: **Stucchi interface**
Max number of contacts: **7**
Seals: **NBR (Nitrile)**
Material: **Body brass nickel plated; cable retainer in plastic**
Contact diameter: **2 mm**
Ampere: **12 service to 15 max (each contact)**
Voltage: **24V max**
Connection contact and electrical wire: **To crimp**
IP protection: **Not listed**

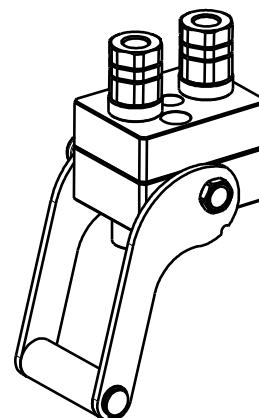
DP2 2A-1EC

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP2-9ZN	8000 N	2	A				

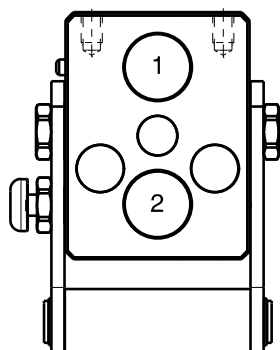


Stucchi®

DRAWING



CONFIGURATIONS



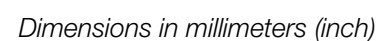
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9AZN	YES
2	FAP9AZN	-

MultiCoupling (couplings included)		
Code	Name	Description
870007016	MULTI COMPLETE DP2 2A	2 FAP9A 3/8 BSP - CAP
870007115	MULTI FIX DP2 2A	2 FAP9A 1/2 BSP
870007116	MULTI FIX DP2 2A	2 FAP9A 3/8 BSP
870007215	MULTI MOBILE DP2 2A	2 FAP9A 1/2 BSP
870007216	MULTI MOBILE DP2 2A	2 FAP9A 3/8 BSP

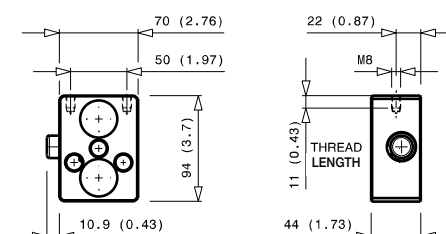
MultiCoupling spare parts (couplings not included)	
Code	Name
806000344	MULTI FIX EMPTY DP2 2A-1EC
806000345	MULTI MOBILE EMPTY DP2 2A-1EC
815606266	CAP FIX MULTICOUPLING DP 94x70
815606267	PARKING STATION MOBILE MULTICOUPLING DP 94x70
815701083	KIT NR.1 COMPLETE LEVER GROUP DP

Custom configurations
available upon request

1,3 Kg and 0,6 Kg



0,6 Kg

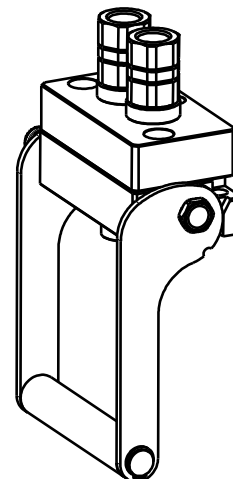


DP2 2A-2EC V04

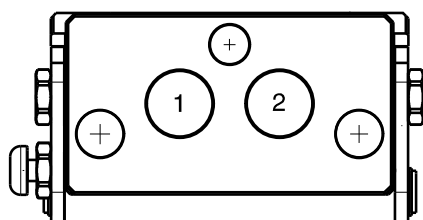
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP2-9L	8000 N	2	A				



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9AZN	YES
2	FAP9AZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870008022	MULTI COMPLETE DP2 2A V04*	2 FAP9A 3/8 BSP - CAP
870008122	MULTI FIX DP2 2A V04*	2 FAP9A 3/8 BSP
870008222	MULTI MOBILE DP2 2A V04*	2 FAP9A 3/8 BSP

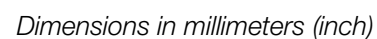
* V04 = it differs from DP2 2A standard because is longitudinal end has a different angle lever

MultiCoupling spare parts (couplings not included)	
Code	Name
806000410	MULTI FIX EMPTY DP2 2A-2EC V04*
806000411	MULTI MOBILE EMPTY DP2 2A-2EC V04*
815606310	CAP FIX MULTICOUPLING DP 125x69
815606311	PARKING STATION MOBILE MULTICOUPLING DP 125x69
815701215	KIT NR.1 COMPLETE LEVER GROUP DP
UPON REQUEST	SPECIFIC KIT FOR V04 MODEL

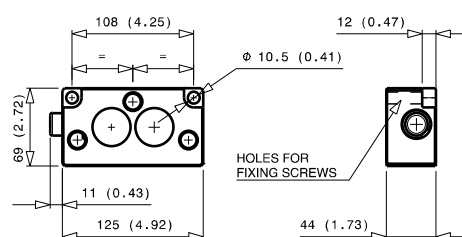
* V04 = it differs from DP2 2A standard because is longitudinal end has a different angle lever

Custom configurations
available upon request

1,7 Kg and 0,7 Kg



0,9 Kg

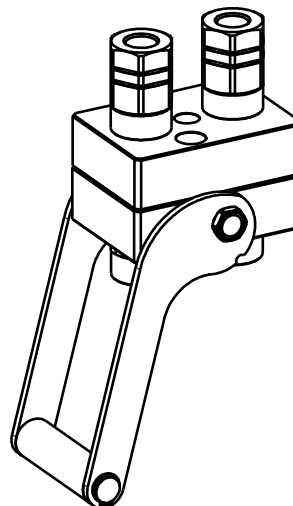


DP2 2B-1EC

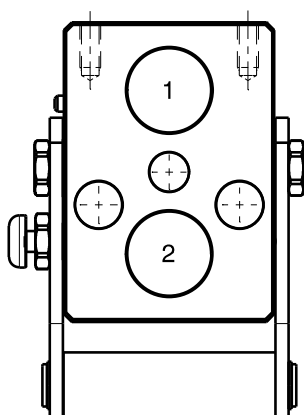
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP2-13ZN	12000 N		2				



DRAWING



CONFIGURATIONS



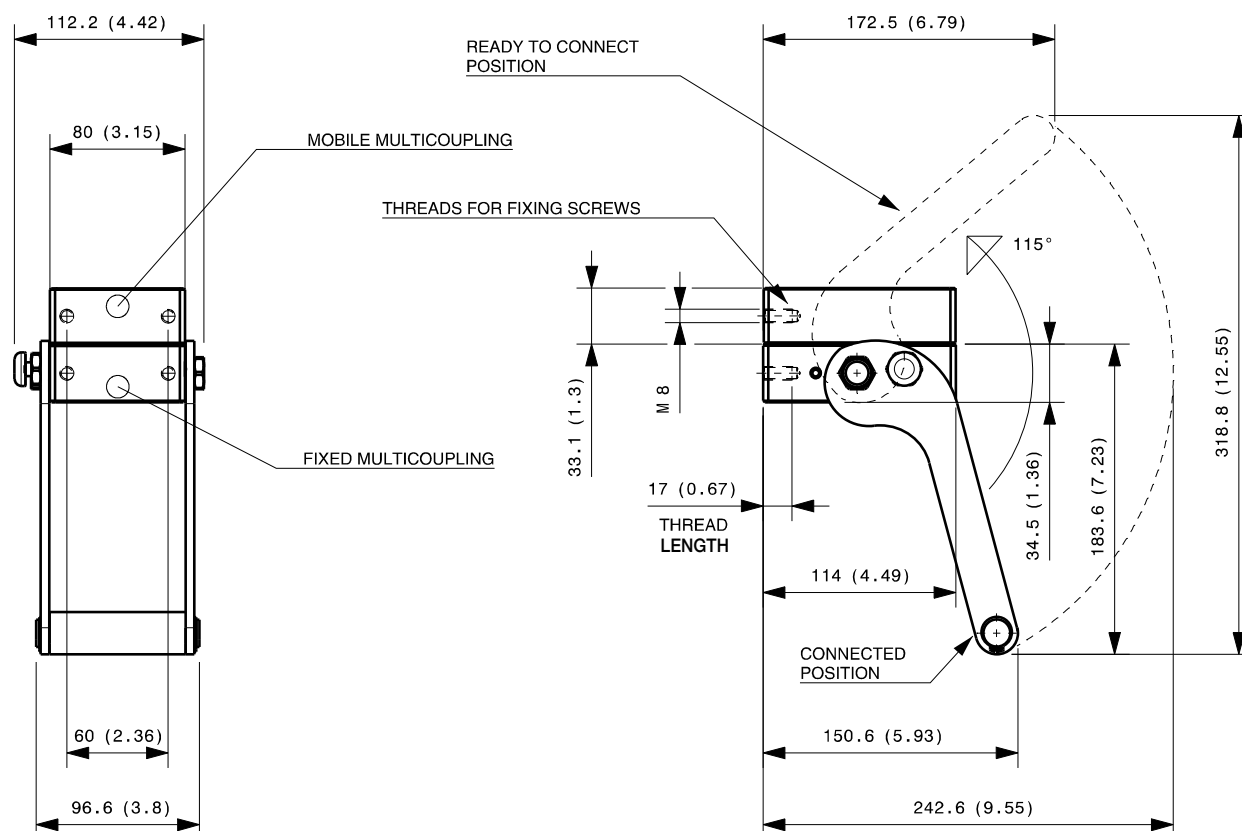
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	YES
2	FAP13ZN	-

MultiCoupling (couplings included)		
Code	Name	Description
870008016	MULTI COMPLETE DP2 2B	2 FAP13 3/4 BSP - CAP
870008019	MULTI COMPLETE DP2 2B	2 FAP13 1/2 BSP - CAP
870008119	MULTI FIX DP2 2B	2 FAP13 1/2 BSP
870008219	MULTI MOBILE DP2 2B	2 FAP13 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000346	MULTI FIX EMPTY DP2 2B-1EC
806000347	MULTI MOBILE EMPTY DP2 2B-1EC
815606270	CAP FIX MULTICOUPLING DP 114x80
815606271	PARKING STATION MOBILE MULTICOUPLING DP 114x80
815701082	KIT NR.1 COMPLETE LEVER GROUP DP

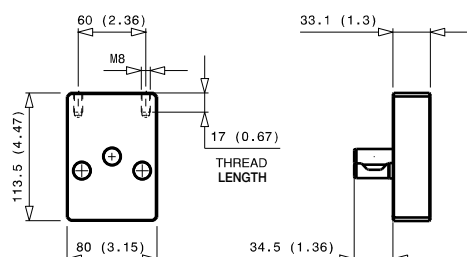
Fixed and mobile multicoupling

1,6 Kg and 0,8 Kg

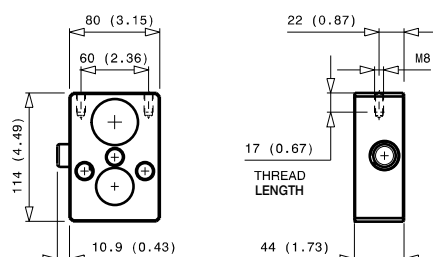


Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,8 Kg



Parking station for mobile multicoupling 0,8 Kg

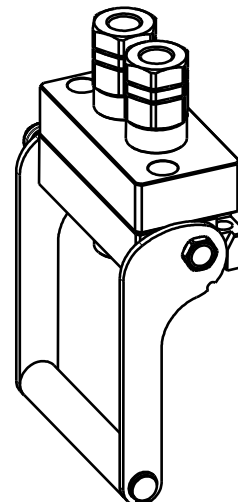


DP2 2B-2EC V04

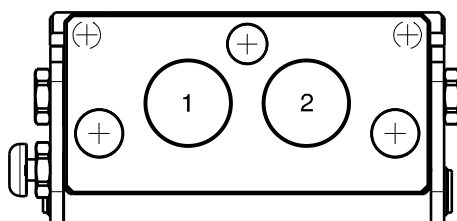
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP2-13L	12000 N		2				



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	YES
2	FAP13ZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870008012	MULTI COMPLETE DP2 2B V04*	2 FAP13 1/2 BSP - CAP
870008112	MULTI FIX DP2 2B V04*	2 FAP13 1/2 BSP
870008212	MULTI MOBILE DP2 2B V04*	2 FAP13 1/2 BSP
870008221	MULTI MOBILE DP2 2B V04*	2 FAP13 3/4 BSP

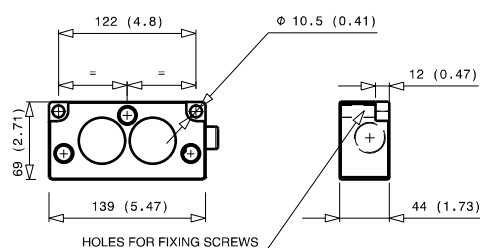
* V04 = it differs from DP2 2B standard because is longitudinal end has a different angle lever

MultiCoupling spare parts (couplings not included)	
Code	Name
806000368	MULTI FIX EMPTY DP2 2B-2EC V04*
806000369	MULTI MOBILE EMPTY DP2 2B-2EC V04*
815606240	CAP FIX MULTICOUPLING DP 139x69
815606309	PARKING STATION MOBILE MULTICOUPLING DP 139x69
815701088	KIT NR.1 COMPLETE LEVER GROUP DP
UPON REQUEST	SPECIFIC KIT FOR V04 MODEL

* V04 = it differs from DP2 2B standard because is longitudinal end has a different angle lever

Custom configurations
available upon request

1,8 Kg and 0,8 Kg

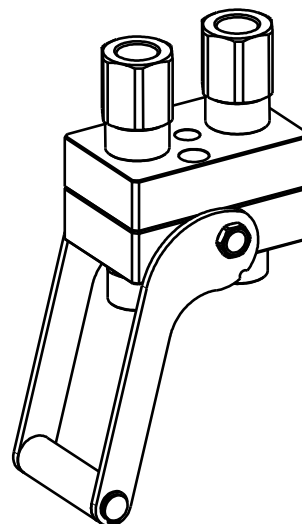


DP2 2C

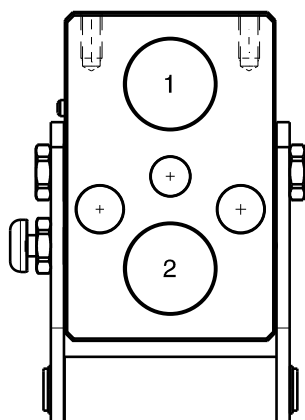
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP2-15	15500 N			2			



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP15ZN	-

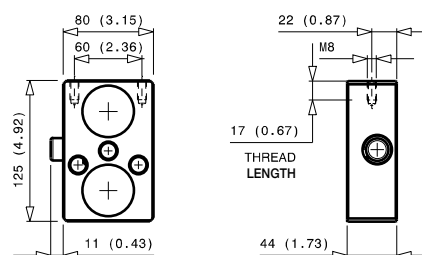
MultiCoupling (couplings included)		
Code	Name	Description
870008018	MULTI COMPLETE DP2 2C	2 FAP15 3/4 BSP - CAP
870008118	MULTI FIX DP2 2C	2 FAP15 3/4 BSP
870008218	MULTI MOBILE DP2 2C	2 FAP15 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000308	MULTI FIX EMPTY DP2 2C
806000309	MULTI MOBILE EMPTY DP2 2C
815606238	CAP FIX MULTICOUPLING DP 125x80
815606239	PARKING STATION MOBILE MULTICOUPLING DP 125x80
815701082	KIT NR.1 COMPLETE LEVER GROUP DP

1,6 Kg and 0,8 Kg



0,8 Kg

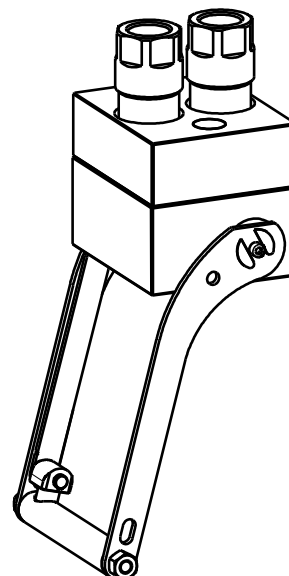


DP2 2D

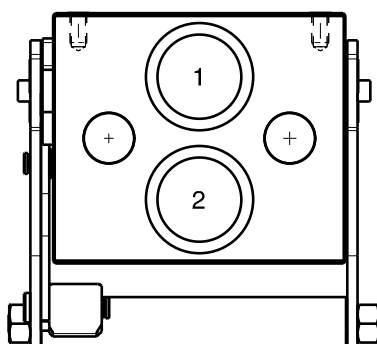
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP2-17ZN	18000 N				2		



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP17ZN	-
2	FAP17ZN	-

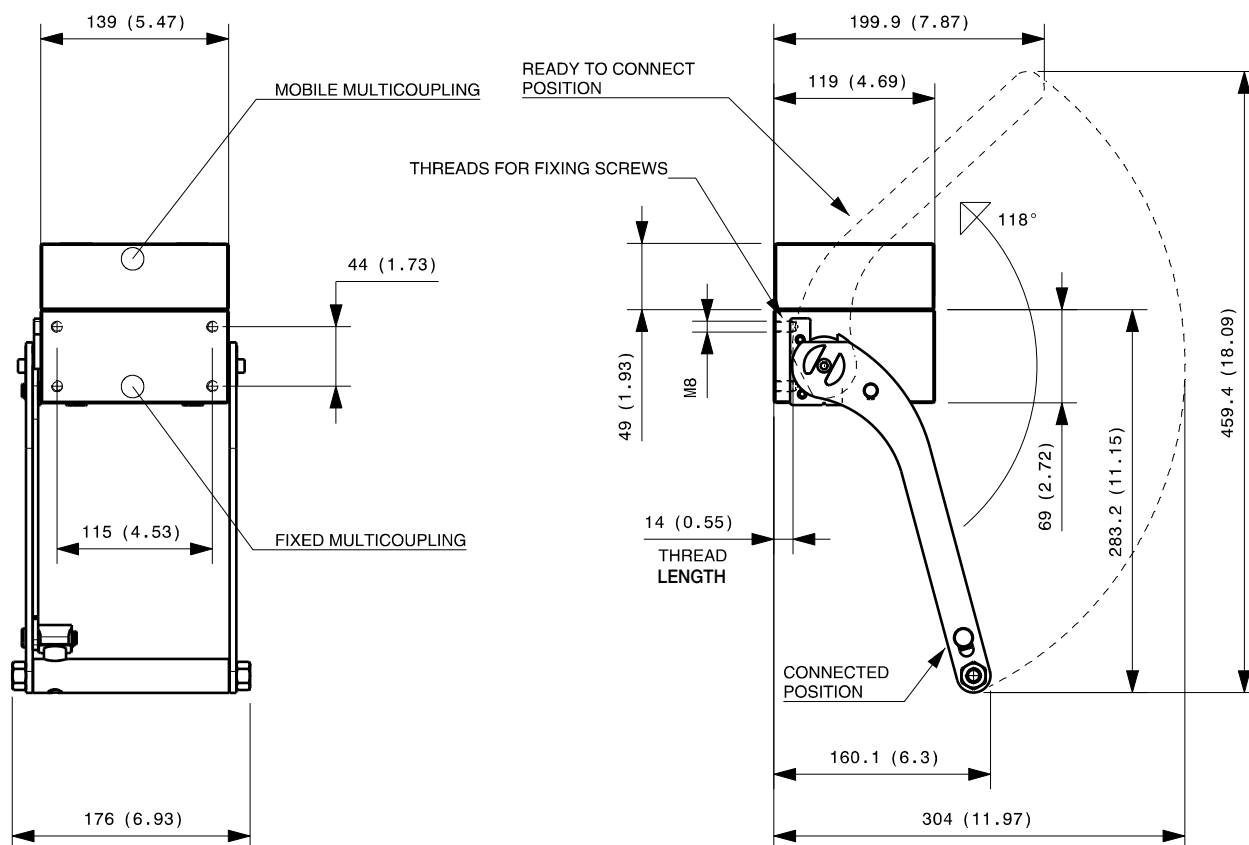
MultiCoupling (couplings included)		
Code	Name	Description
870008017	MULTI COMPLETE DP2 2D	2 FAP17 1' BSP - CAP
870008113	MULTI FIX DP2 2D	2 FAP17 1' NPT
870008117	MULTI FIX DP2 2D	2 FAP17 1' BSP
870008213	MULTI MOBILE DP2 2D	2 FAP17 1' NPT
870008217	MULTI MOBILE DP2 2D	2 FAP17 1' BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000348	MULTI FIX EMPTY DP2 2D
806000349	MULTI MOBILE EMPTY DP2 2D
815606272	CAP FIX MULTICOUPLING DP 139x118
815606273	PARKING STATION MOBILE MULTICOUPLING DP 139x120
815701084	KIT NR.1 COMPLETE LEVER GROUP DP

Custom configurations
available upon request

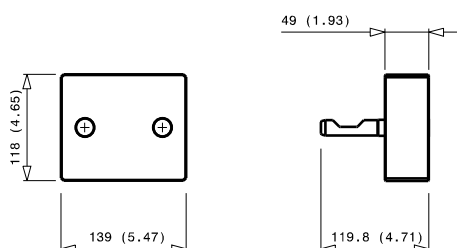
Fixed and mobile multicoupling

3,9 Kg and 2,1 Kg

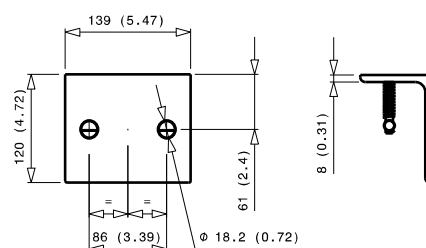


Dimensions in millimeters (inch)

Cap for fixed multicoupling 2,3 Kg



Parking station for mobile multicoupling 1,8 Kg



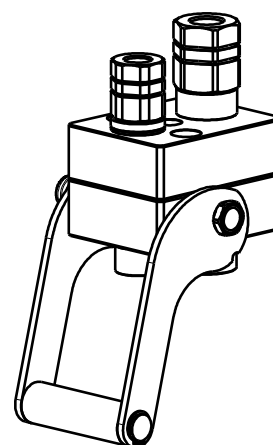
DP2 1A-1B

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DPT2ZN	10000 N	1	D	1			

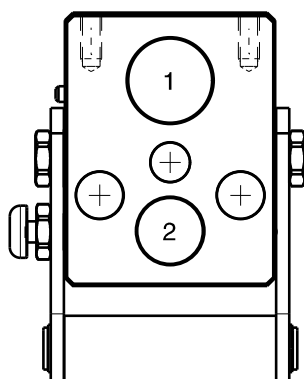


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DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	-
2	FAP9DZN	-

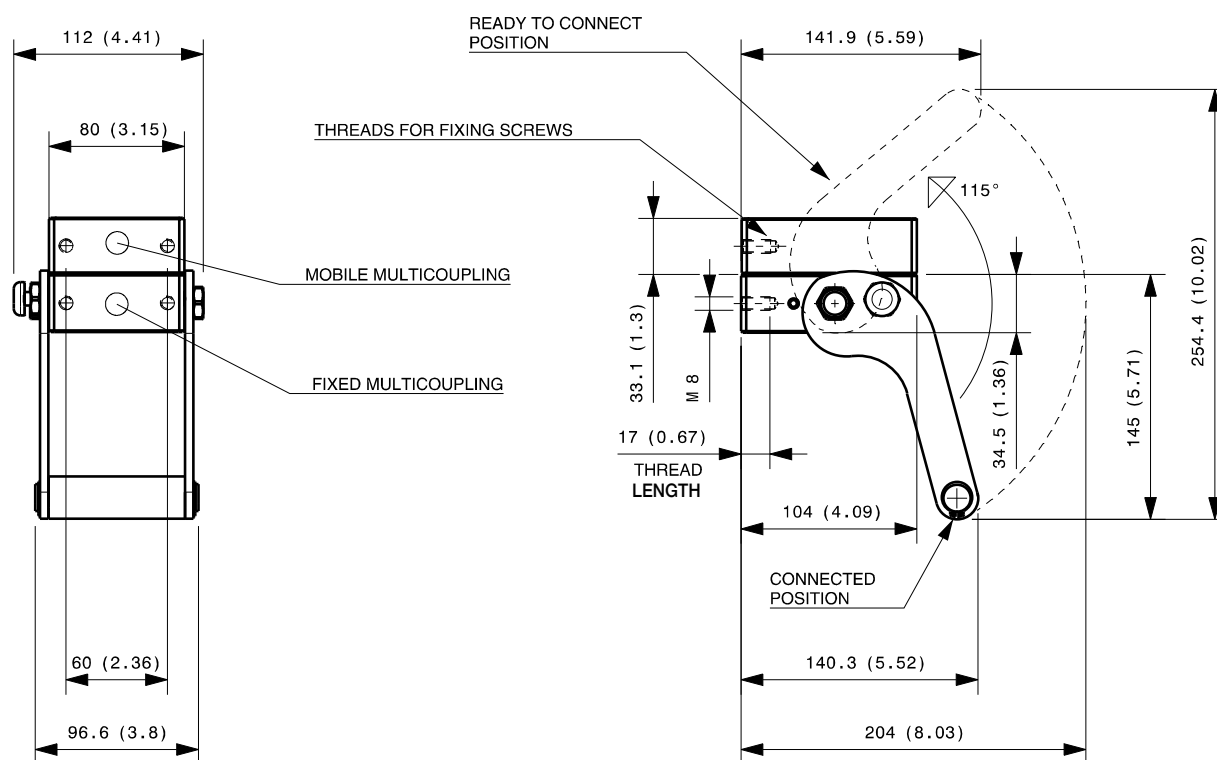
MultiCoupling (couplings included)		
Code	Name	Description
870009014	MULTI COMPLETE DP2 1A-1B	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - CAP
870009114	MULTI FIX DP2 1A-1B	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP
870009214	MULTI MOBILE DP2 1A-1B	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000354	MULTI FIX EMPTY DP2 1A-1B
806000355	MULTI MOBILE EMPTY DP2 1A-1B
815606268	CAP FIX MULTICOUPLING DP 104x80
815606269	PARKING STATION MOBILE MULTICOUPLING DP 104x80
815701086	KIT NR.1 COMPLETE LEVER GROUP DP

Custom configurations
available upon request

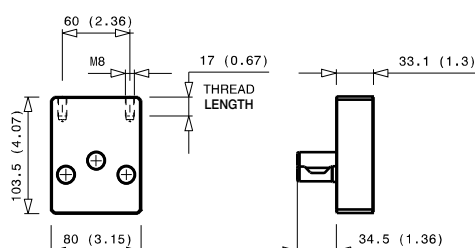
Fixed and mobile multicoupling

1,5 Kg and 0,8 Kg

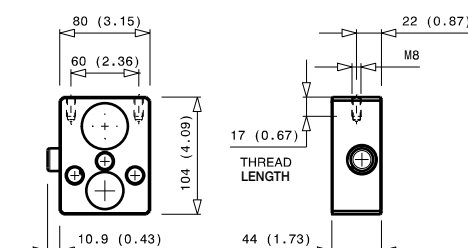


Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,8 Kg



Parking station for mobile multicoupling 0,8 Kg



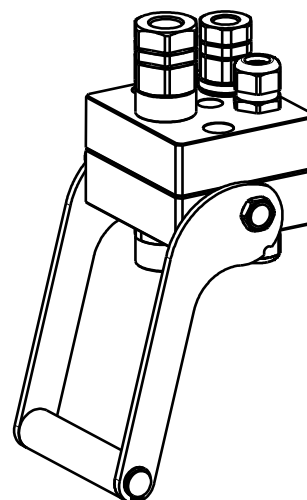
DP3 1A-1B-1EC

Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"		1/2"	5/8"	3/4"	1"	1-1/2"
DPT3ZN	10000 N	1	D	1				

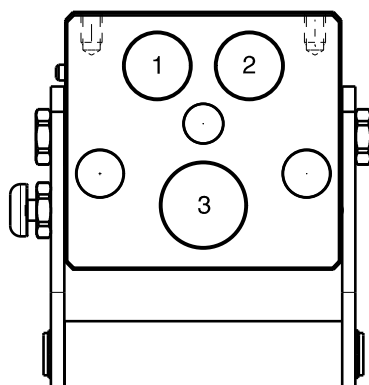


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CONFIGURATIONS



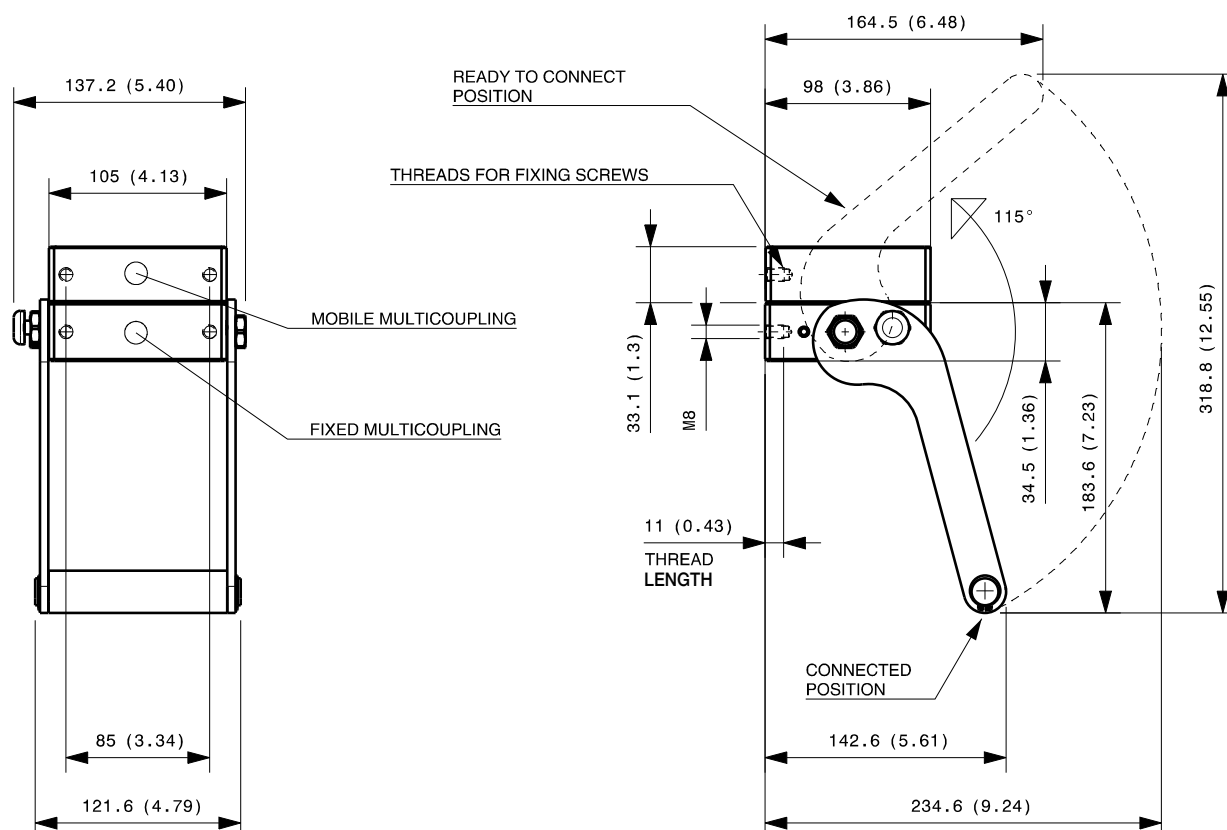
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9DZN	-
2	-	YES
3	FAP13ZN	-

MultiCoupling (couplings included)		
Code	Name	Description
870009015	MULTI COMPLETE DP3 1A-1B-1EC	1 FAP9D 3/8 BSP - 1 FAP13ZN 1/2 BSP - 1EC7 - CAP
870009115	MULTI FIX DP3 1A-1B-1EC	1 FAP9D 3/8 BSP - 1 FAP13ZN 1/2 BSP - 1EC7
870009215	MULTI MOBILE DP3 1A-1B-1EC	1 FAP9D 3/8 BSP - 1 FAP13ZN 1/2 BSP - 1EC7

MultiCoupling spare parts (couplings not included)	
Code	Name
806000356	MULTI FIX EMPTY DP3 1A-1B-1EC
806000357	MULTI MOBILE EMPTY DP3 1A-1B-1EC
815606276	CAP FIX MULTICOUPLING DP 105x98
815701081	KIT NR.1 COMPLETE LEVER GROUP DP

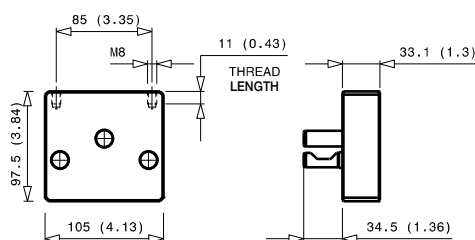
Fixed and mobile multicoupling

1,5 Kg and 0,8 Kg



Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,8 Kg



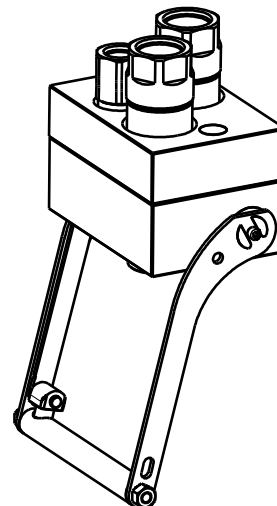
DP3 1C-2E

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
	Body size	3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP3GE	23000 N			1		2	

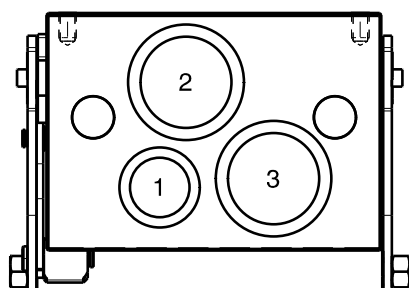


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP21ZN	-
3	FAP21ZN	-

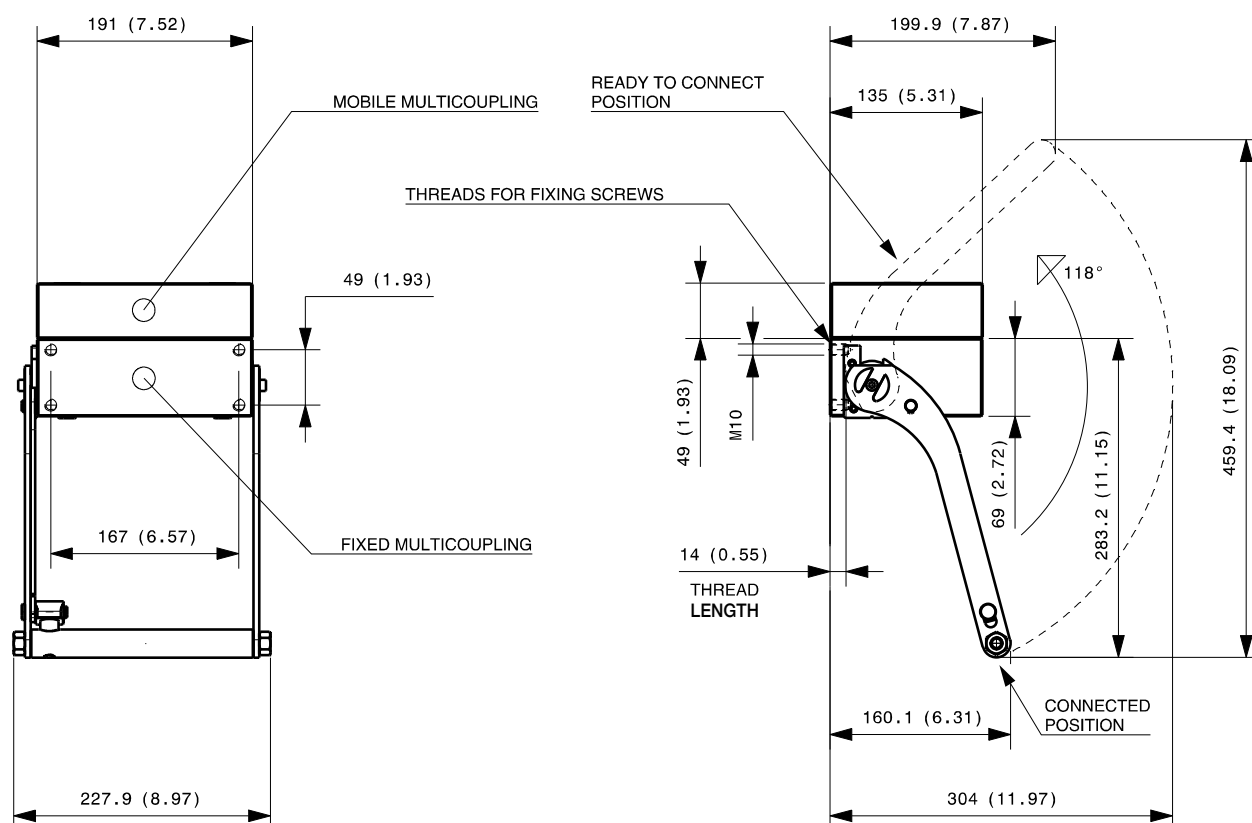
MultiCoupling (couplings included)		
Code	Name	Description
870015088	MULTI COMPLETE DP3 1C-2E	1 FAP15 3/4 SAE - 2 FAP21 1-1/4 SAE - CAP
870015188	MULTI FIX DP3 1C-2E	1 FAP15 3/4 SAE - 2 FAP21 1-1/4 SAE
870015288	MULTI MOBILE DP3 1C-2E	1 FAP15 3/4 SAE - 2 FAP21 1-1/4 SAE

MultiCoupling spare parts (couplings not included)	
Code	Name
806000392	MULTI FIX EMPTY DP3 1C-2E
806000393	MULTI MOBILE EMPTY DP3 1C-2E
815606300	CAP FIX MULTICOUPLING DP 191x135
815606301	PARKING STATION MOBILE MULTICOUPLING DP 190x140
815701089	KIT NR.1 COMPLETE LEVER GROUP DP

Custom configurations
available upon request

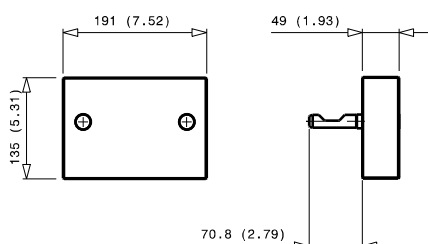
Fixed and mobile multicoupling

5,3 Kg and 2,8 Kg

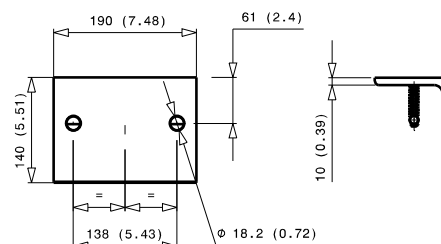


Dimensions in millimeters (inch)

Cap for fixed multicoupling 3,3 Kg



Parking station for mobile multicoupling 3,3 Kg



DP3 2A-1EC

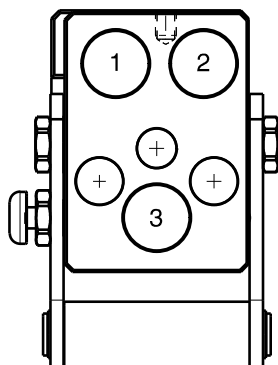
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DPJ3ZN	8000 N	2	A				



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9AZN	-
2	-	YES
3	FAP9AZN	-

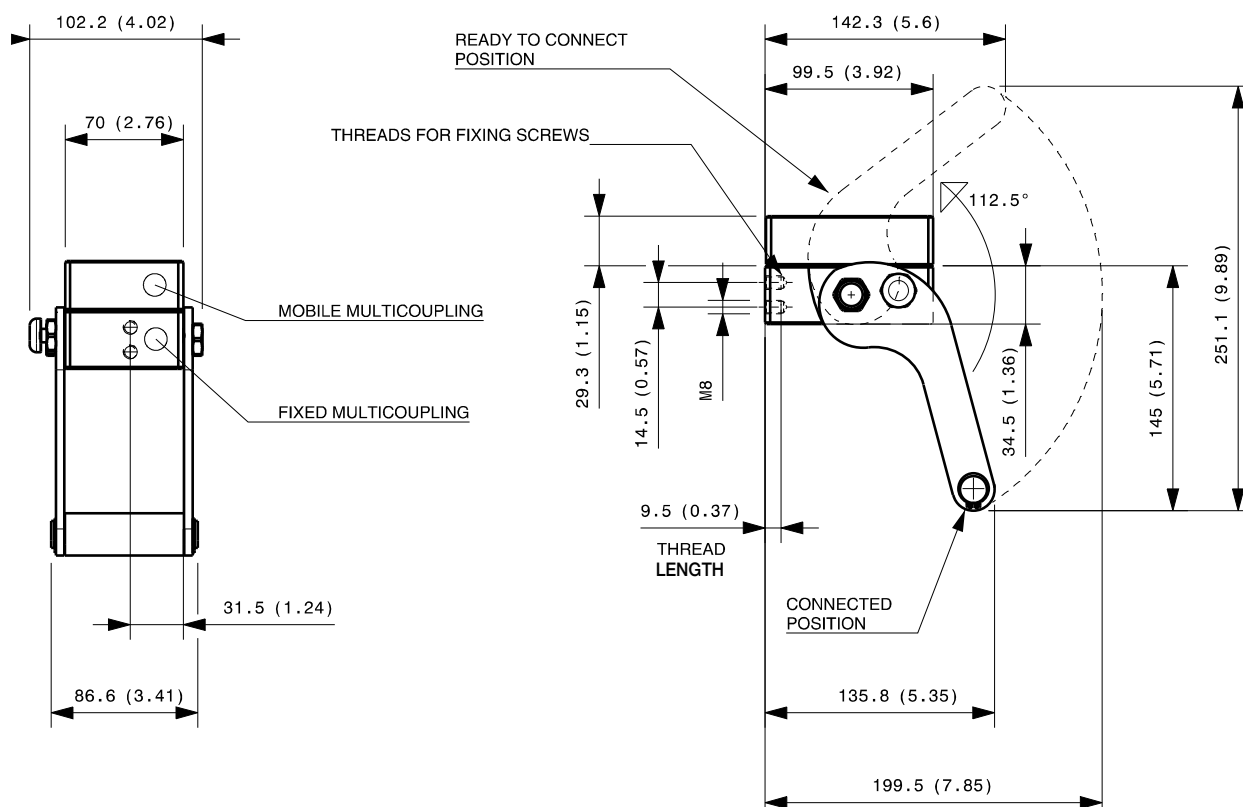
MultiCoupling (couplings included)		
Code	Name	Description
870009016	MULTI COMPLETE DP3 2A-1EC	2 FAP9A 3/8 BSP - 1EC6 - CAP
870009116	MULTI FIX DP3 2A-1EC	2 FAP9A 3/8 BSP - 1EC6
870009216	MULTI MOBILE DP3 2A-1EC	2 FAP9A 3/8 BSP - 1EC6

MultiCoupling spare parts (couplings not included)	
Code	Name
806000358	MULTI FIX EMPTY DP3 2A-1EC
806000359	MULTI MOBILE EMPTY DP3 2A-1EC
815606274	CAP FIX MULTICOUPLING DP 99x70
815606275	PARKING STATION MOBILE MULTICOUPLING DP 100x70
815701083	KIT NR.1 COMPLETE LEVER GROUP DP

Fixed and mobile multicoupling

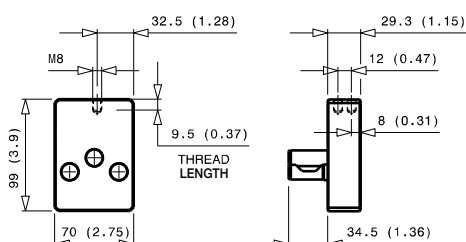
1,3 Kg and 0,6 Kg

DP

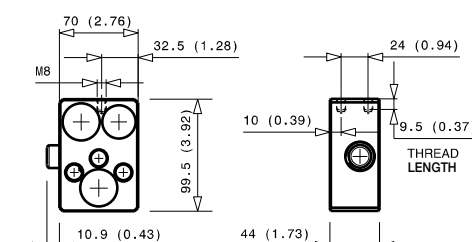


Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,5 Kg



Parking station for mobile multicoupling 0,6 Kg

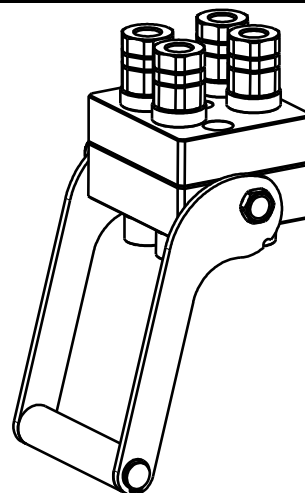


DP4 4A-2EC

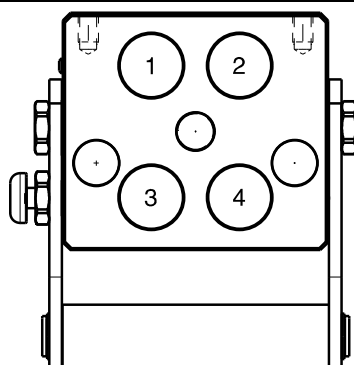
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP4-9ZN	17000 N	2	A				



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9AZN	-
2	FAP9AZN	YES
3	FAP9AZN	YES
4	FAP9AZN	-

MultiCoupling (couplings included)		
Code	Name	Description
870011017	MULTI COMPLETE DP4 4A	4 FAP9A 3/8 BSP - CAP
870011020	MULTI COMPLETE DP4 4A	4 FAP9A 1/2 BSP - CAP
870011022	MULTI COMPLETE DP4 4A	4 FAP9A 1/4 BSP - CAP
870011027	MULTI COMPLETE DP4 4A	4 FAP9A 3/8 BSP - CAP
870011028	MULTI COMPLETE DP4 4A	4 FAP9A 3/8 SAE - CAP
870011124	MULTI COMPLETE DP4 4A V02*	2 FAP9A 3/8 BSP - 2 FAP9A 1/2 BSP - CAP
870011117	MULTI FIX DP4 4A	4 FAP9A 3/8 BSP
870011120	MULTI FIX DP4 4A	4 FAP9A 1/2 BSP
870011122	MULTI FIX DP4 4A	4 FAP9A 1/4 BSP
870011123	MULTI FIX DP4 4A	2 FAP9A 3/8 BSP - 2 FAP9A 1/2 BSP
870011125	MULTI FIX DP4 2A	2 FAP9A 3/8 BSP
870011126	MULTI FIX DP4 4A	4 FAP9A 1/2 SAE
870011217	MULTI MOBILE DP4 4A	4 FAP9A 3/8 BSP
870011220	MULTI MOBILE DP4 4A	4 FAP9A 1/2 BSP
870011222	MULTI MOBILE DP4 4A	4 FAP9A 1/4 BSP
870011223	MULTI MOBILE DP4 4A	2 FAP9A 3/8 BSP - 2 FAP9A 1/2 BSP

* V02 = side button

MultiCoupling spare parts (couplings not included)	
Code	Name
806000264	MULTI FIX EMPTY DP4 4A-2EC
806000370	MULTI FIX EMPTY DP4 4A V02*
806000265	MULTI MOBILE EMPTY DP4 4A-2EC
815606280	CAP FIX MULTICOUPLING DP 105x94
815606281	PARKING STATION MOBILE MULTICOUPLING DP 105x94
815701081	KIT NR.1 COMPLETE LEVER GROUP DP
UPON REQUEST	SPECIFIC KIT FOR V02 MODEL

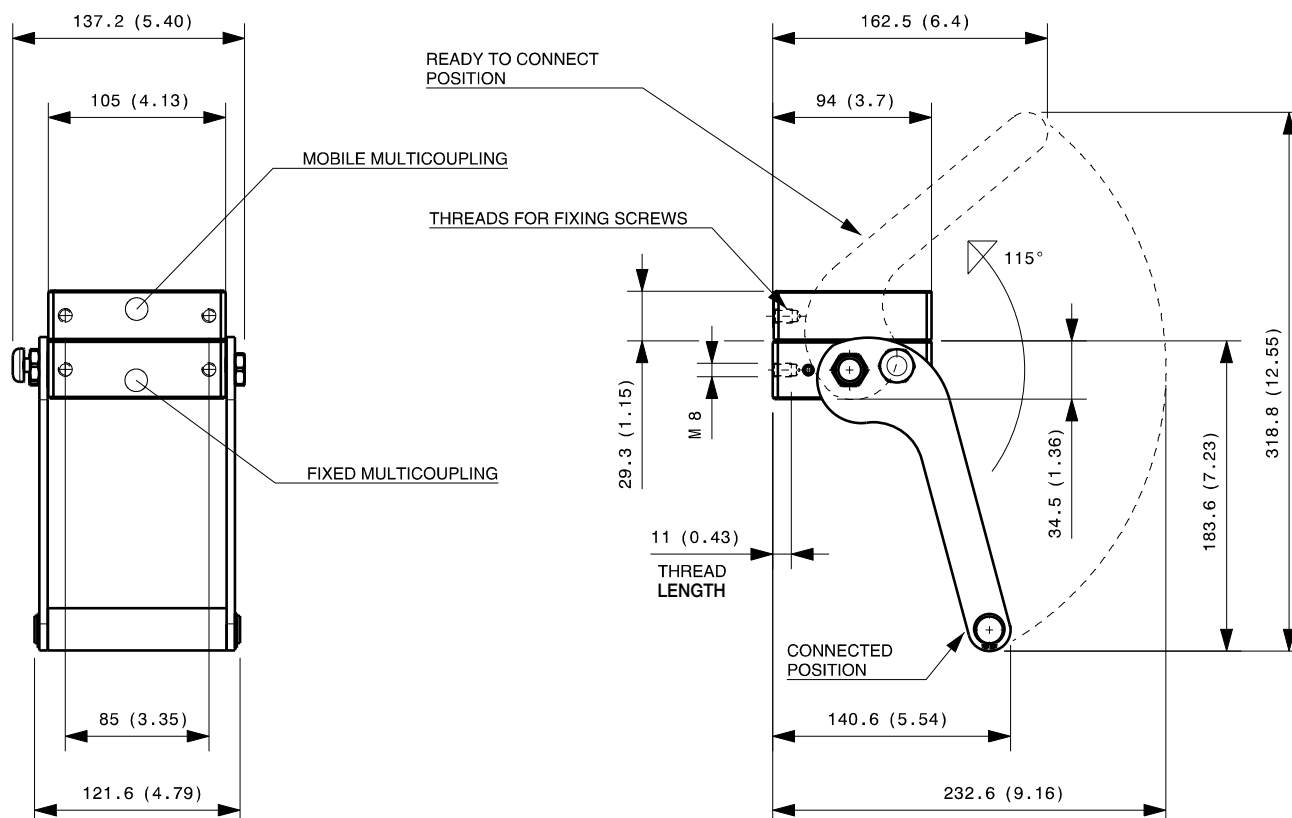
* V02 = side button

Custom configurations
available upon request

Fixed and mobile multicoupling

1,7 Kg and 0,7 Kg

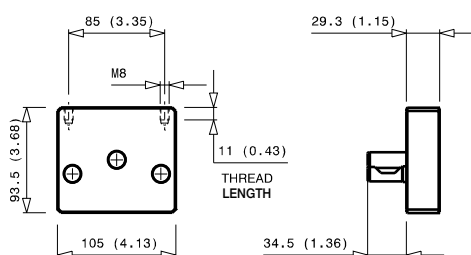
DP



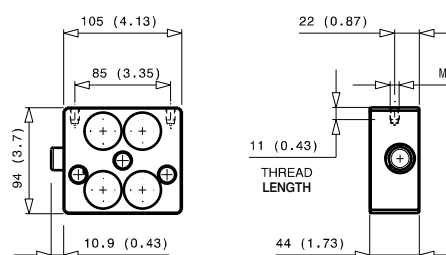
Available also model with button in other side,
in case of need ask the drawing to info@stucchi.it

Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,7 Kg



Parking station for mobile multicoupling 0,9 Kg

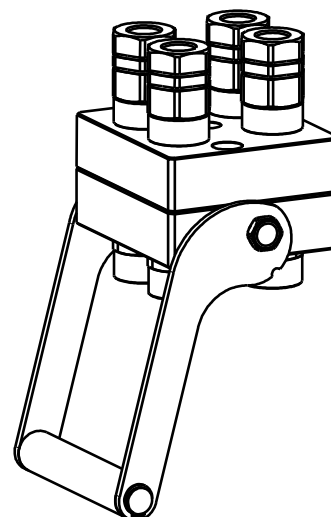


DP4 4B-2EC

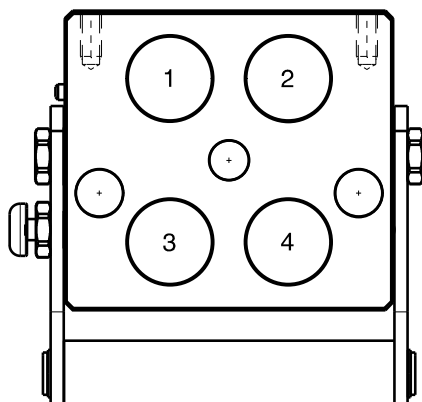
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP4-13ZN	17000 N		4				



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	-
2	FAP13ZN	YES
3	FAP13ZN	YES
4	FAP13ZN	-

MultiCoupling (couplings included)		
Code	Name	Description
870012007	MULTI COMPLETE DP4 4B	4 FAP13 3/4 BSP - CAP
870012008	MULTI COMPLETE DP4 4B	4 FAP13 1/2 BSP - CAP
870012009	MULTI COMPLETE DP4 4B	4 FAP13 1/2 NPT - CAP
870012107	MULTI FIX DP4 4B	4 FAP13 3/4 BSP
870012108	MULTI FIX DP4 4B	4 FAP13 1/2 BSP
870012207	MULTI MOBILE DP4 4B	4 FAP13 3/4 BSP
870012208	MULTI MOBILE DP4 4B	4 FAP13 1/2 BSP

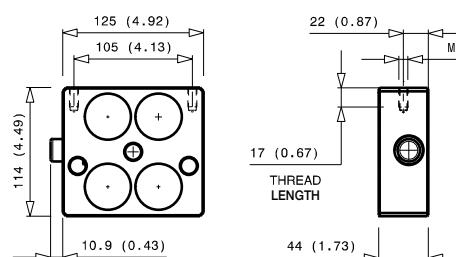
MultiCoupling spare parts (couplings not included)	
Code	Name
806000350	MULTI FIX EMPTY DP4 4B-2EC
806000351	MULTI MOBILE EMPTY DP4 4B-2EC
815606282	CAP FIX MULTICOUPLING DP 125x114
815606283	PARKING STATION MOBILE MULTICOUPLING DP 125x114
815701085	KIT NR.1 COMPLETE LEVER GROUP DP

Custom configurations
available upon request

2,0 Kg and 1,0 Kg



1,2 Kg



DP6 4A-2EC

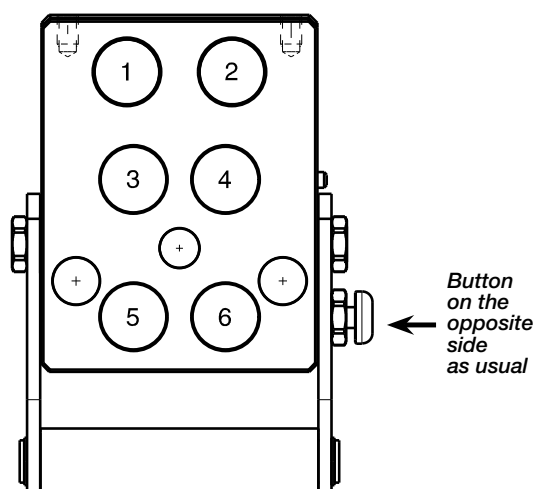
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP6-9ZN	17000 N	4	A				



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	-	YES
2	-	YES
3	FAP9AZN	-
4	FAP9AZN	-
5	FAP9AZN	-
6	FAP9AZN	-

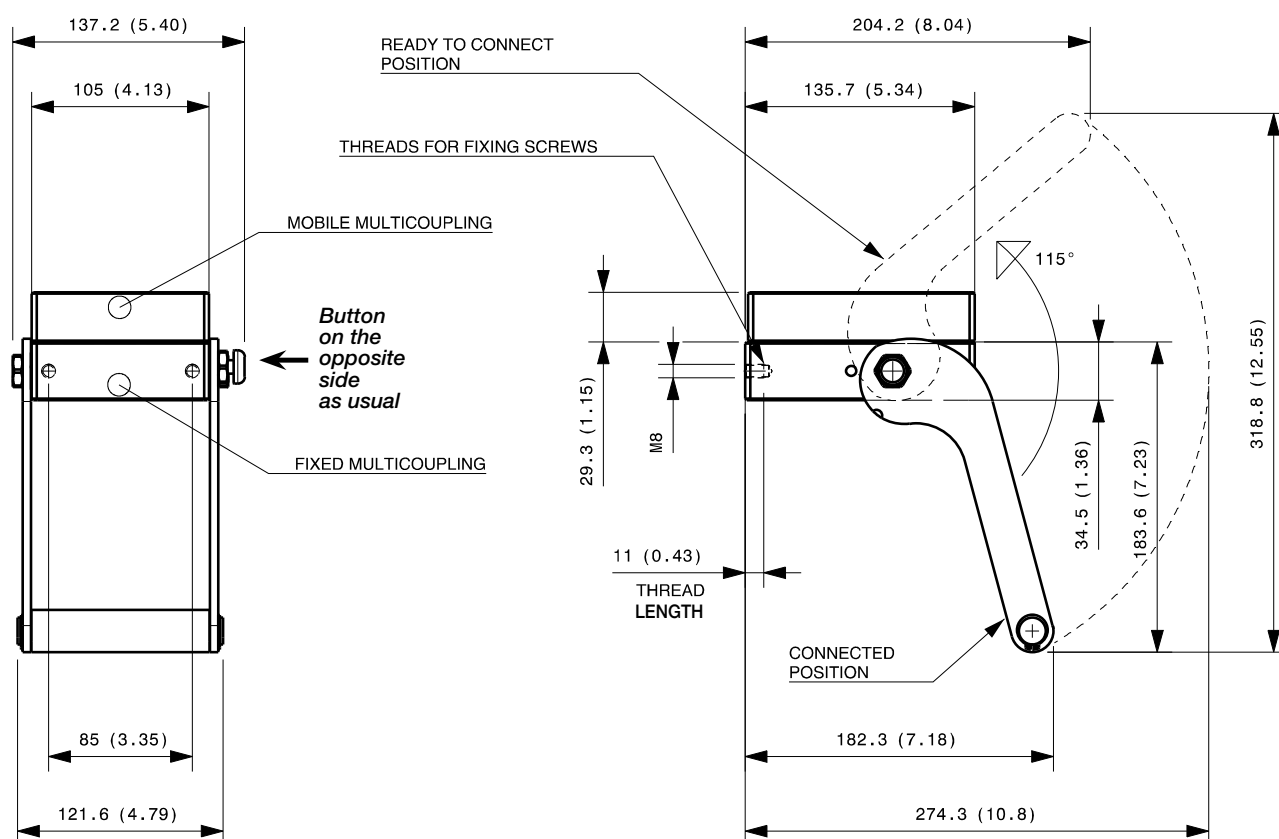
MultiCoupling (couplings included)		
Code	Name	Description
870011021	MULTI COMPLETE DP6 4A	2 FAP9A 3/8 BSP - 2 FAP9A 1/2 BSP - CAP
870011121	MULTI FIX DP6 4A	2 FAP9A 3/8 BSP - 2 FAP9A 1/2 BSP
870011221	MULTI MOBILE DP6 4A	2 FAP9A 3/8 BSP - 2 FAP9A 1/2 BSP

MultiCoupling spare parts (couplings not included)		
Code	Name	
806000352	MULTI FIX EMPTY DP6 4A-2EC	
806000353	MULTI MOBILE EMPTY DP6 4A-2EC	
815606292	CAP FIX MULTICOUPLING DP 134x105	
815606285	PARKING STATION MOBILE MULTICOUPLING DP 135x105	
815701081	KIT NR.1 COMPLETE LEVER GROUP DP	

Fixed and mobile multicoupling

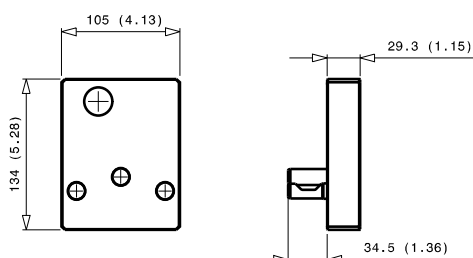
1,7 Kg and 1,0 Kg

DP



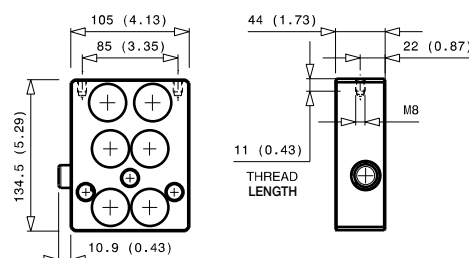
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,0 Kg



Parking station for mobile multicoupling

1,2 Kg



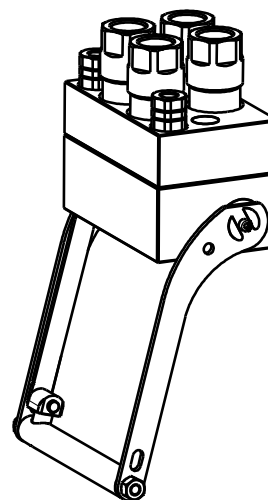
DP6 2A-4D-2EC

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
DP6AD	23000 N	2	D		4		

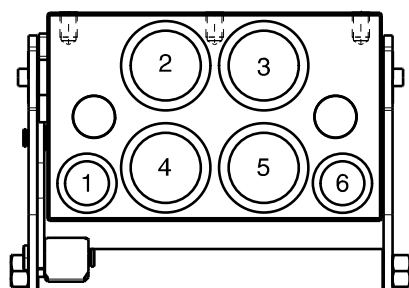


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CONFIGURATIONS



↑
Button
on the lever

Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9DZN	YES *
2	FAP17ZN	-
3	FAP17ZN	-
4	FAP17ZN	-
5	FAP17ZN	-
6	FAP9DZN	YES *

* - Maximum hose diameter for FAP9: Ø16 (1.33),
in case of bigger hose use a longer adaptor.

MultiCoupling (couplings included)		
Code	Name	Description
870008023	MULTI COMPLETE DP6 2A-4D	2 FAP9D 3/8 BSP - 4 FAP17 1 BSP - CAP
870008123	MULTI FIX DP6 2A-4D	2 FAP9D 3/8 BSP - 4 FAP17 1 BSP
870008223	MULTI MOBILE DP6 2A-4D	2 FAP9D 3/8 BSP - 4 FAP17 1 BSP

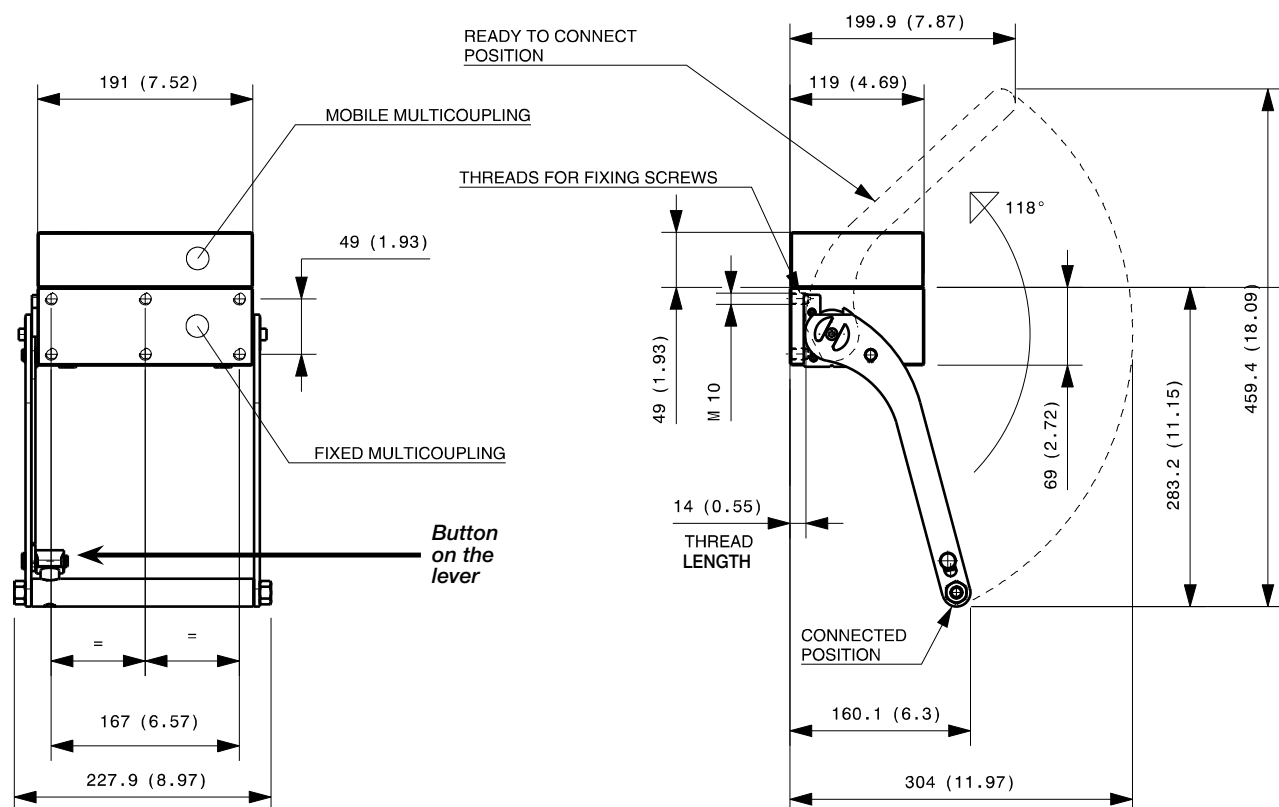
MultiCoupling spare parts (couplings not included)	
Code	Name
806000382	MULTI FIX EMPTY DP6 2A-4D-2EC
806000383	MULTI MOBILE EMPTY DP6 2A-4D-2EC
815606290	CAP FIX MULTICOUPLING DP 191x118
815606291	PARKING STATION MOBILE MULTICOUPLING DP 190x120
815701089	KIT NR.1 COMPLETE LEVER GROUP DP

Custom configurations
available upon request

Fixed and mobile multicoupling

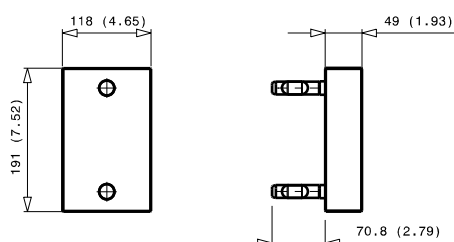
4,5 Kg and 2,2 Kg

DP

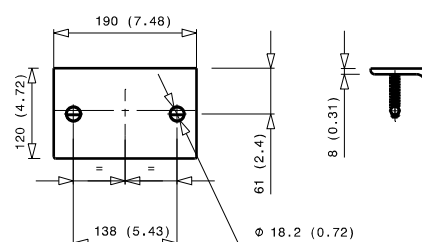


Dimensions in millimeters (inch)

Cap for fixed multicoupling 2,8 Kg



Parking station for mobile multicoupling 2,5 Kg



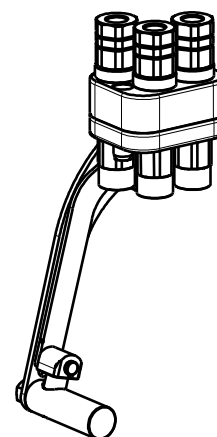
GR3 3A-1EC

Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"		1/2"	5/8"	3/4"	1"	1-1/2"
GR3-9ZN	8000 N	3	A					

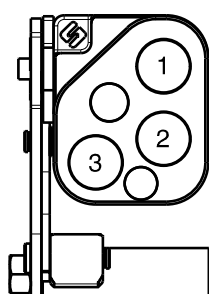


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9AZN	-
2	FAP9AZN	-
3	FAP9AZN	YES

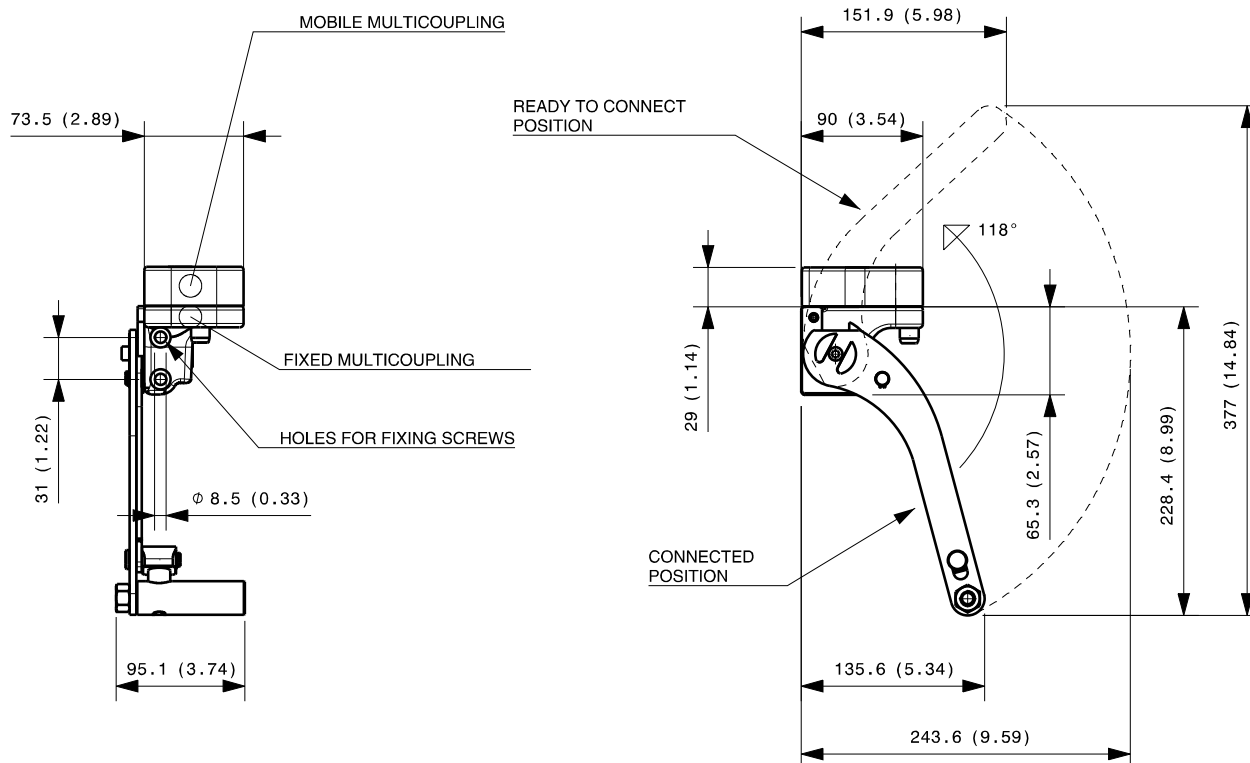
MultiCoupling (couplings included)		
Code	Name	Description
870001040	MULTI COMPLETE GR3 3A	2 FAP9A 3/8 BSP - 1 FAP9A 1/2 BSP - CAP
870001043	MULTI COMPLETE GR3 3A	3 FAP9A 3/8 BSP - CAP
870001044	MULTI COMPLETE GR3 3A	3 FAP9A 1/2 BSP - CAP
870001140	MULTI FIX GR3 3A	2 FAP9A 3/8 BSP - 1 FAP9A 1/2 BSP
870001143	MULTI FIX GR3 3A	3 FAP9A 3/8 BSP
870001144	MULTI FIX GR3 3A	3 FAP9A 1/2 BSP
870001240	MULTI MOBILE GR3 3A	2 FAP9A 3/8 BSP - 1 FAP9A 1/2 BSP
870001243	MULTI MOBILE GR3 3A	3 FAP9A 3/8 BSP
870001244	MULTI MOBILE GR3 3A	3 FAP9A 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000270	MULTI FIX EMPTY GR3 3A-1EC
806000271	MULTI MOBILE EMPTY GR3 3A-1EC
815606242	CAP FIX MULTICOUPLING GR 90x74
815606243	PARKING STATION MOBILE MULTICOUPLING GR 100x75
815701053	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

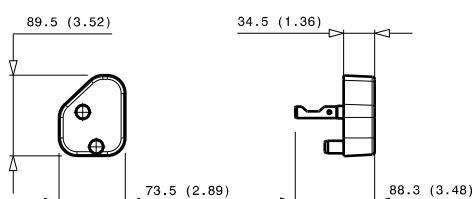
Fixed and mobile multicoupling

2,0 Kg and 0,9 Kg



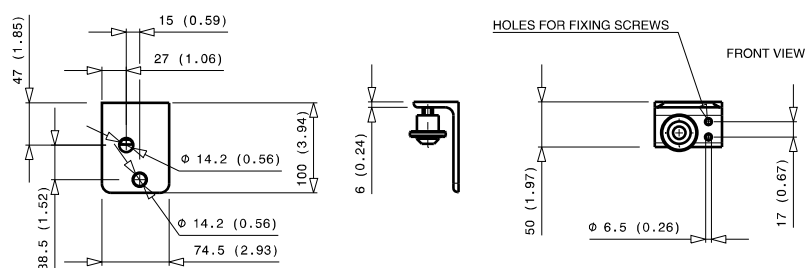
Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,4 Kg



Parking station for mobile multicoupling

0,6 Kg



GR3 3B-1EC

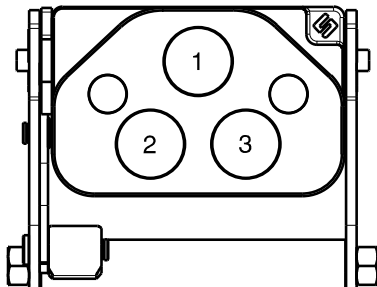
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GR3-13ZN	18000 N		3				



DRAWING



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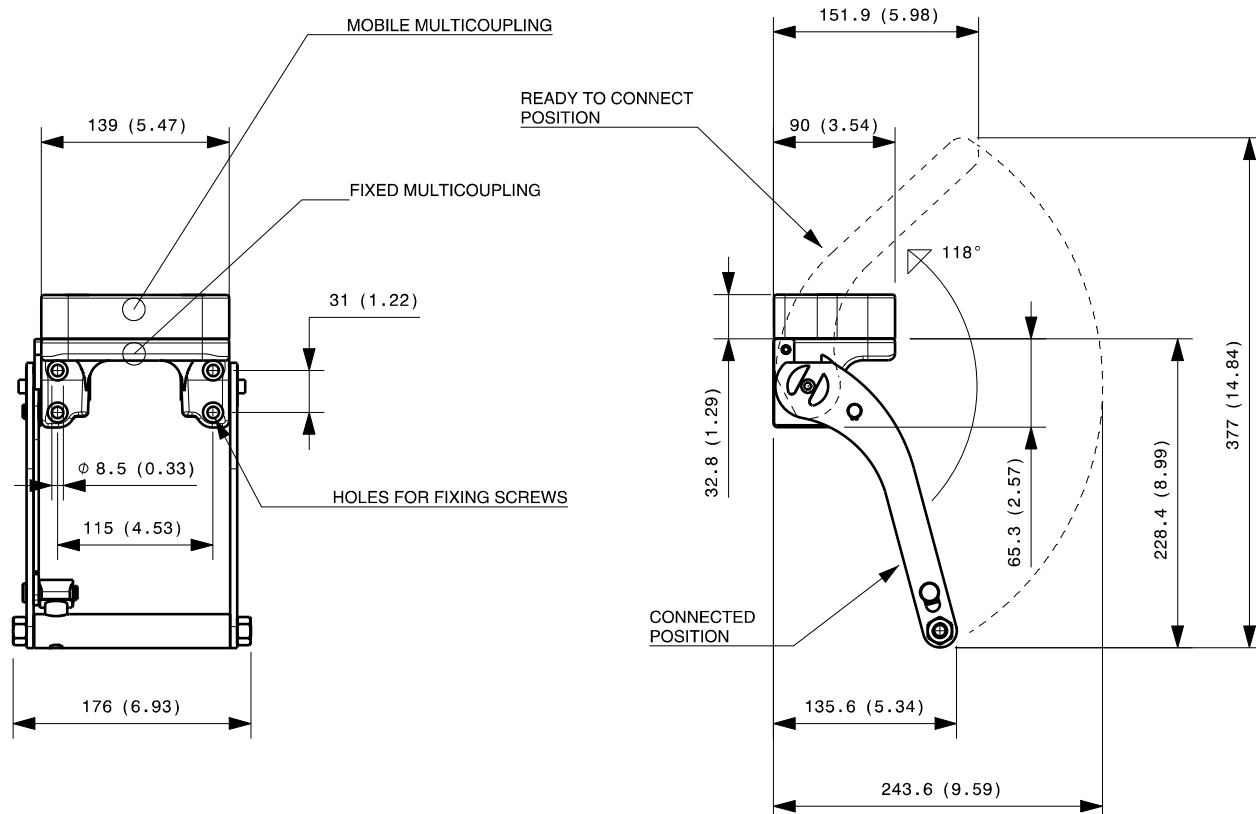
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	-
2	FAP13ZN	YES
3	FAP13ZN	-

MultiCoupling (couplings included)		
Code	Name	Description
870003017	MULTI COMPLETE GR3 3B	1 FAP13 1/2 BSP - 2 FAP13 3/4 BSP - CAP
870003020	MULTI COMPLETE GR3 3B	3 FAP13 1/2 BSP - CAP
870003117	MULTI FIX GR3 3B	1 FAP13 1/2 BSP - 2 FAP13 3/4 BSP
870003120	MULTI FIX GR3 3B	3 FAP13 1/2 BSP
870003217	MULTI MOBILE GR3 3B	1 FAP13 1/2 BSP - 2 FAP13 3/4 BSP
870003220	MULTI MOBILE GR3 3B	3 FAP13 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000272	MULTI FIX EMPTY GR3 3B-1EC
806000273	MULTI MOBILE EMPTY GR3 3B-1EC
815606248	CAP FIX MULTICOUPLING GR 139x89
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	KIT NR.1 COMPLETE LEVER GROUP GR

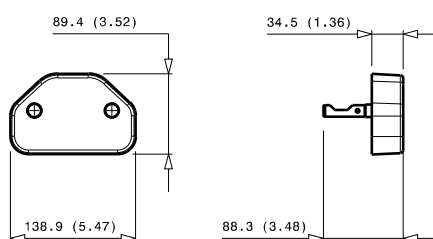
Fixed and mobile multicoupling

3,8 Kg and 1,8 Kg



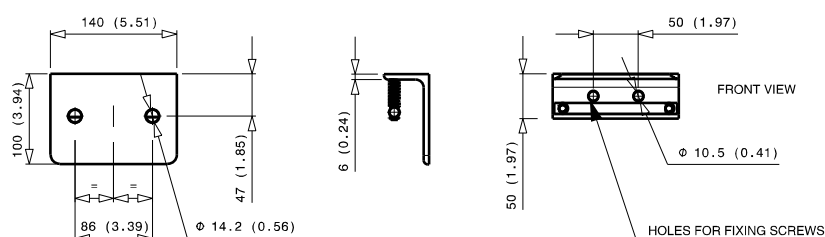
Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,6 Kg



Parking station for mobile multicoupling

1,1 Kg



GR3 1A-2E-1EC

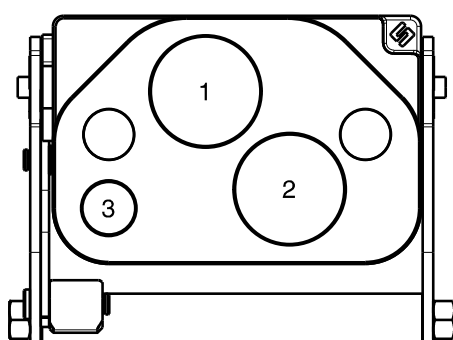
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GRK3ZN	23000 N	1	D			2	



DRAWING



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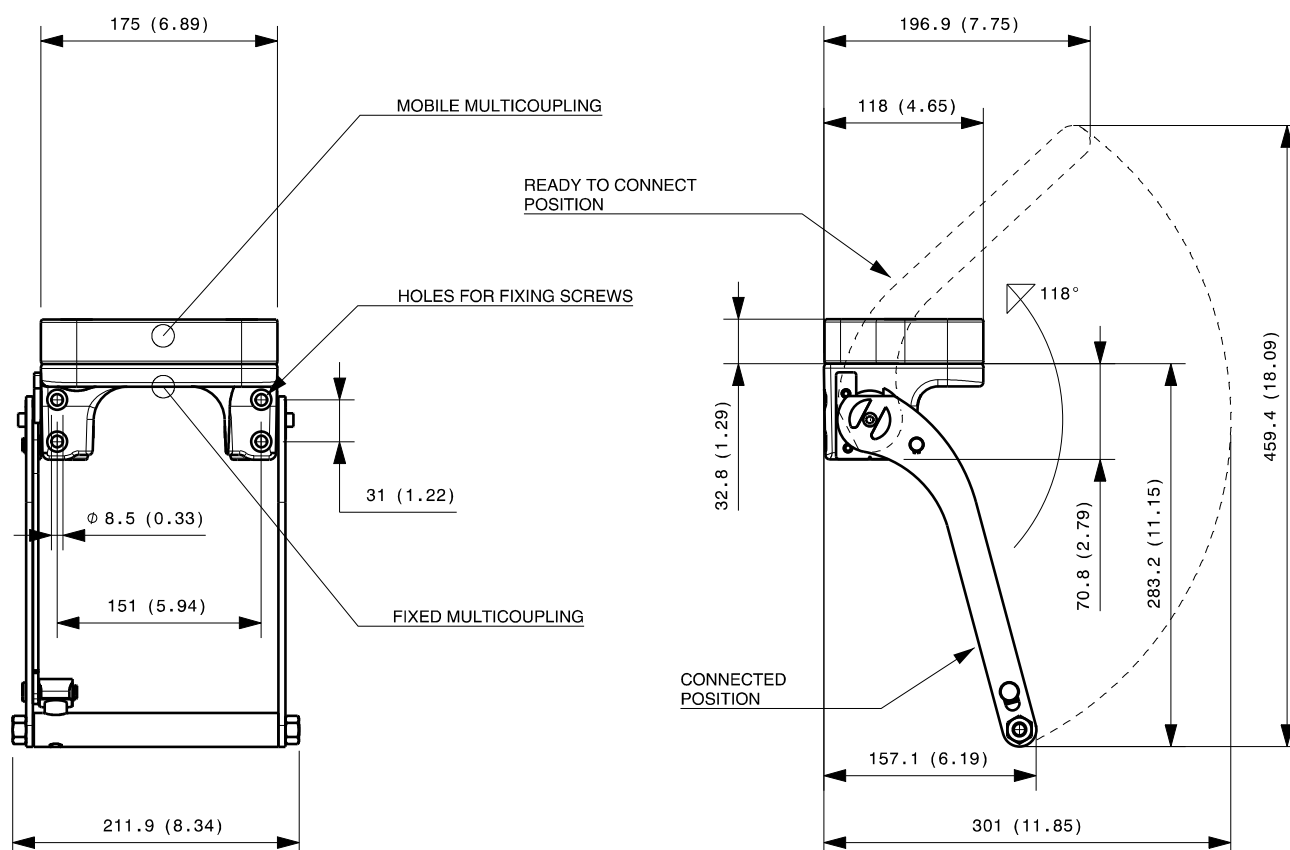
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP21ZN	-
2	FAP21ZN	-
3	FAP9DZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870015075	MULTI COMPLETE GR3 1A-2E	1 FAP9D 3/8 BSP - 2 FAP21 1' BSP - CAP
870015083	MULTI COMPLETE GR3 1A-2E	1 FAP9D 3/8 BSP - 2 FAP21 1-1/4 BSP - CAP
870016001	MULTI COMPLETE GR3 2E	2 FAP21 1-1/4 BSP - CAP
870015175	MULTI FIX GR3 1A-2E	1 FAP9D 3/8 BSP - 2 FAP21 1' BSP
870015275	MULTI MOBILE GR3 1A-2E	1 FAP9D 3/8 BSP - 2 FAP21 1' BSP
870016101	MULTI FIX GR3 2E	2 FAP21 1-1/4 BSP
870016201	MULTI MOBILE GR3 2E	2 FAP21 1-1/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000310	MULTI FIX EMPTY GR3 1A-2E-1EC
806000311	MULTI MOBILE EMPTY GR3 1A-2E-1EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

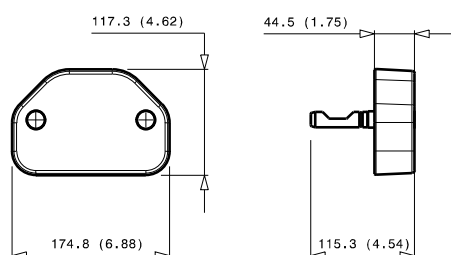
Fixed and mobile multicoupling

5,7 Kg and 2,8 Kg



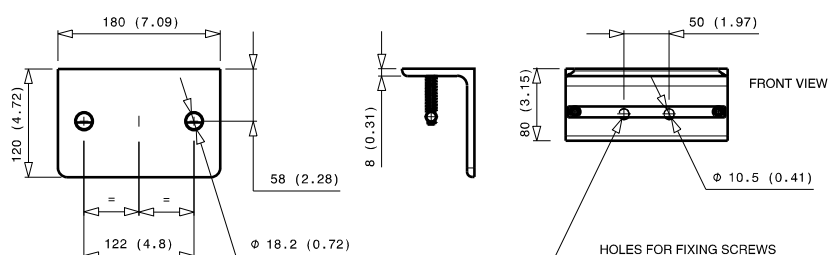
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

2,4 Kg



GR3 2B-1C-2EC

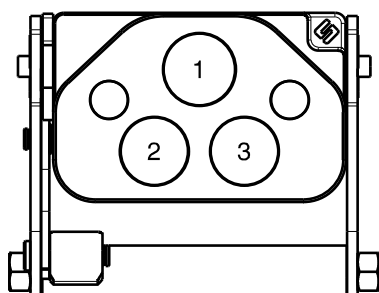
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GRI3	18000 N		2	1			



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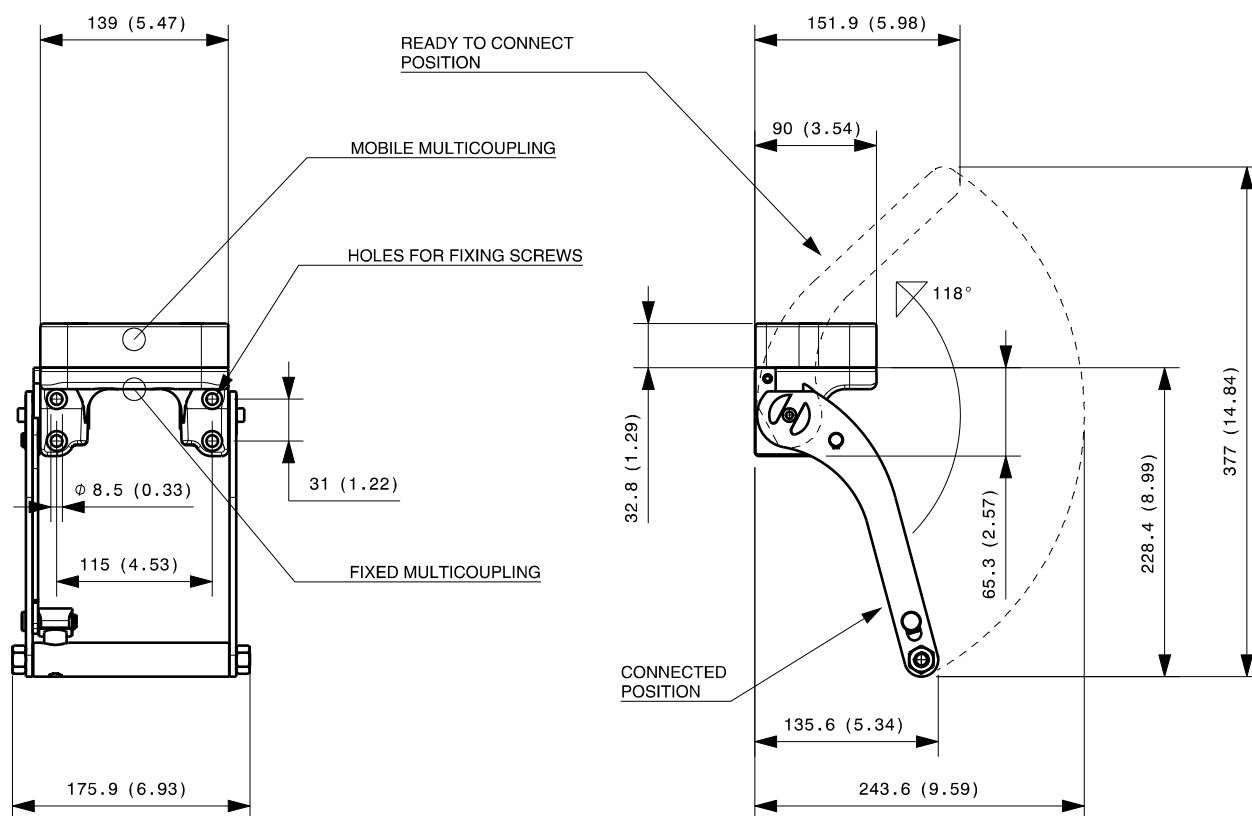
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP13ZN	YES
3	FAP13ZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870015065	MULTI COMPLETE GR3 2B-1C	2 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - CAP
870015165	MULTI FIX GR3 2B-1C	2 FAP13 1/2 BSP - 1 FAP15 3/4 BSP
870015265	MULTI MOBILE GR3 2B-1C	2 FAP13 1/2 BSP - 1 FAP15 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000376	MULTI FIX EMPTY GR3 2B-1C-2EC
806000377	MULTI MOBILE EMPTY GR3 2B-1C-2EC
815606248	CAP FIX MULTICOUPLING GR 139x89
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	KIT NR.1 COMPLETE LEVER GROUP GR

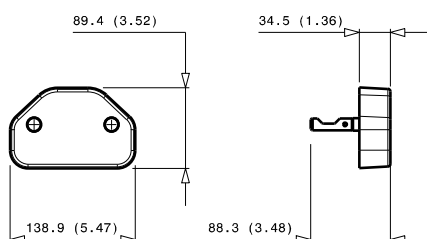
Fixed and mobile multicoupling

3,7 Kg and 1,7 Kg



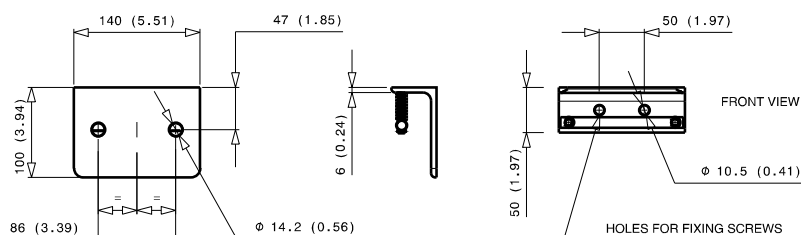
Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,6 Kg



Parking station for mobile multicoupling

1,1 Kg



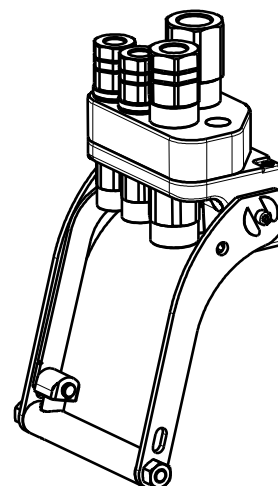
GR4 2A-1B-1C-2EC

Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	D	1/2"	5/8"	3/4"	1"	1-1/2"
GRI4SBZN	18000 N	2	D	1	1			

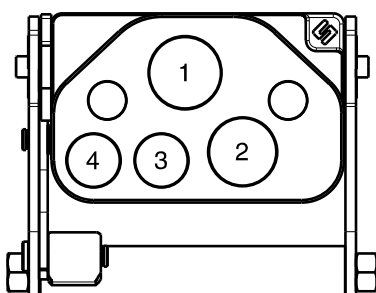


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Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP13ZN	-
3	FAP9DZN	YES
4	FAP9DZN	YES

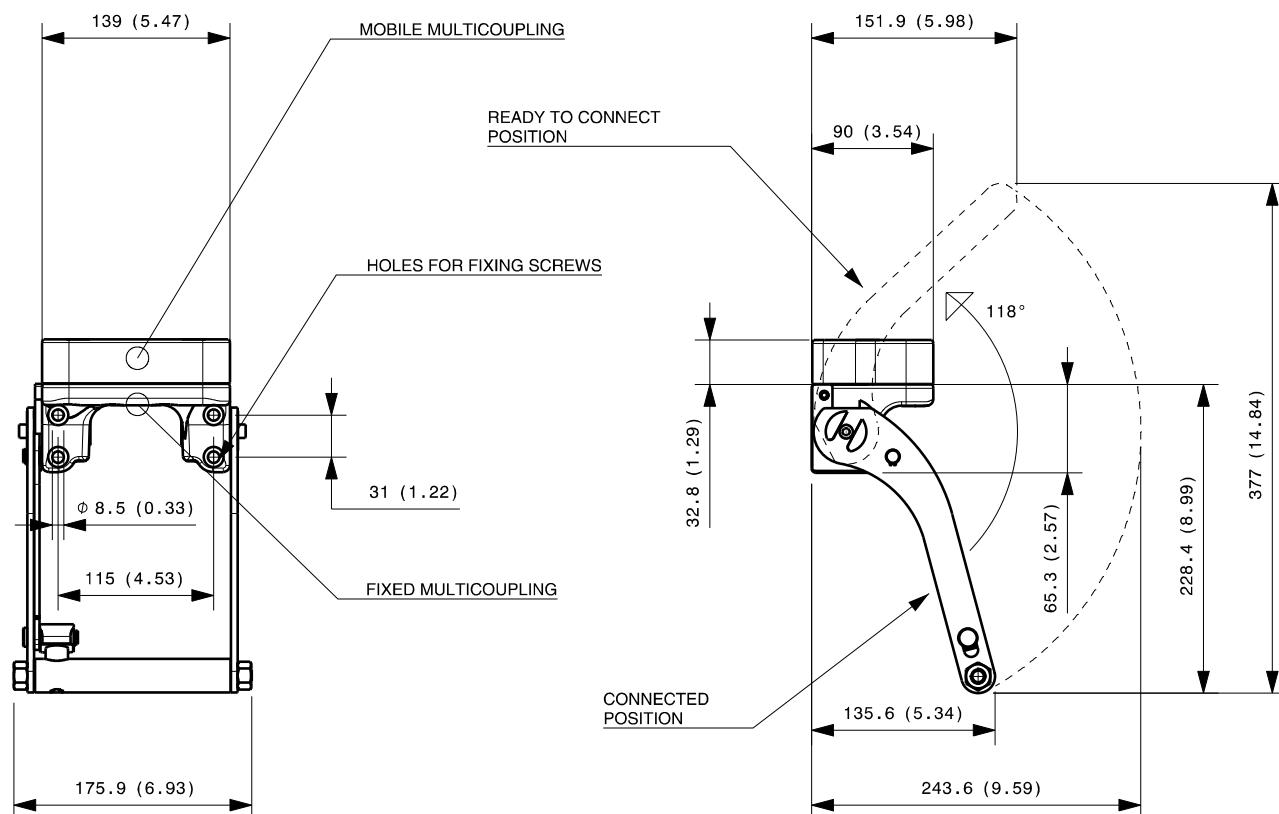
MultiCoupling (couplings included)		
Code	Name	Description
870015091	MULTI COMPLETE GR4 1B-1C	1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - CAP
870015191	MULTI FIX GR4 1B-1C	1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP
870015291	MULTI MOBILE GR4 1B-1C	1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000276	MULTI FIX EMPTY GR4 2A-1B-1C-2EC
806000277	MULTI MOBILE EMPTY GR4 2A-1B-1C-2EC
815606246	CAP FIX MULTICOUPLING GR 139x90
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

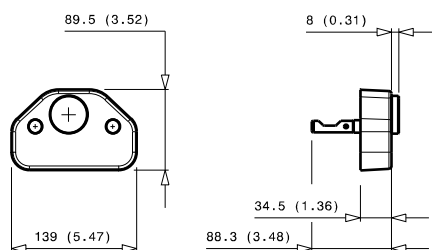
Fixed and mobile multicoupling

3,7 Kg and 1,7 Kg



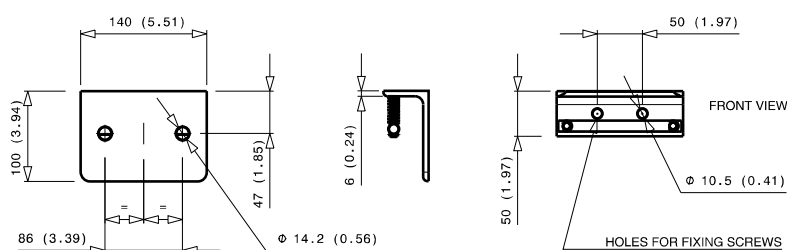
Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,6 Kg



Parking station for mobile multicoupling

1,1 Kg



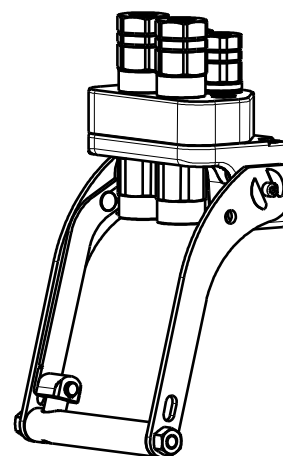
GR4 2A-2B-2EC

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GRB4ZN	18000 N	2	D	2			

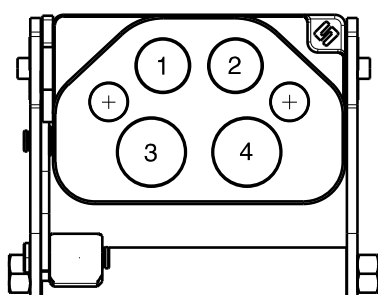


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Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9DZN	YES
2	FAP9DZN	YES
3	FAP13ZN	-
4	FAP13ZN	-

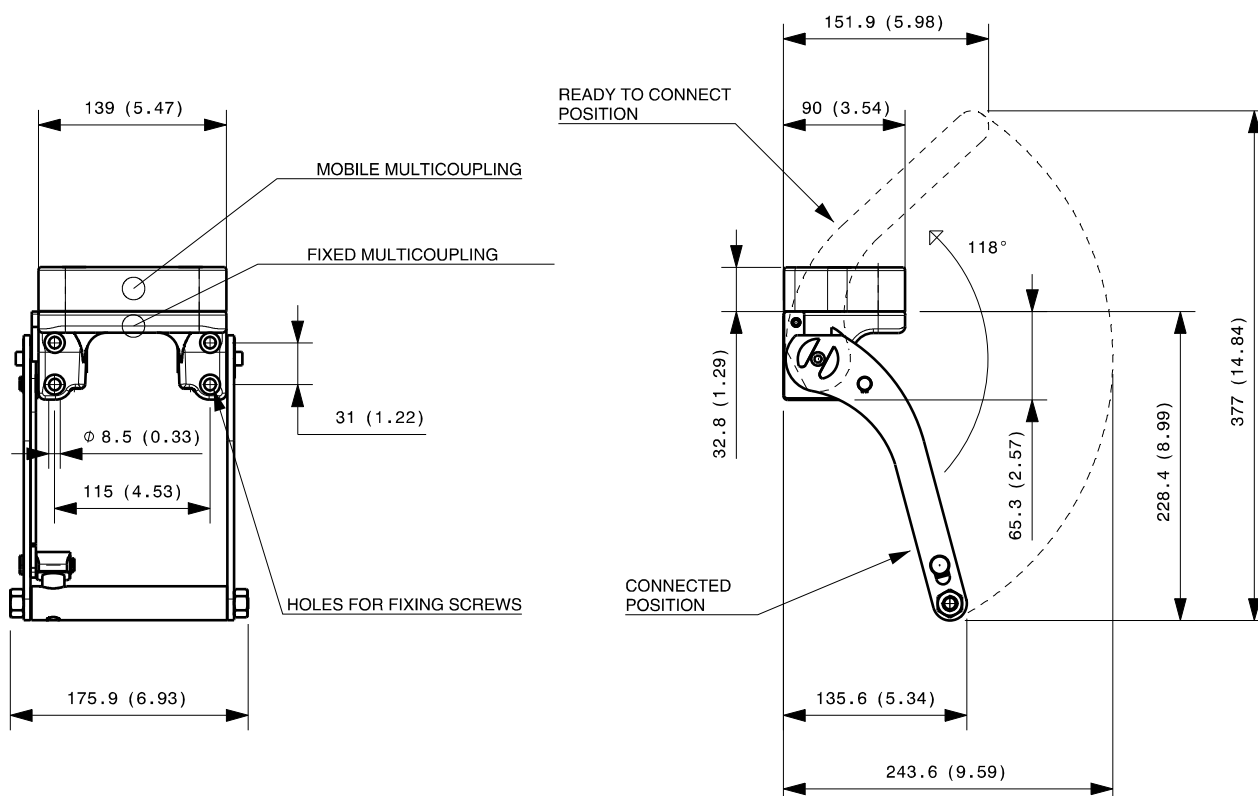
MultiCoupling (couplings included)		
Code	Name	Description
870016014	MULTI COMPLETE GR4 2A-2B	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - CAP
870016114	MULTI FIX GR4 2A-2B	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP
870016214	MULTI MOBILE GR4 2A-2B	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000274	MULTI FIX EMPTY GR4 2A-2B-2EC
806000275	MULTI MOBILE EMPTY GR4 2A-2B-2EC
815606248	CAP FIX MULTICOUPLING GR 139x89
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

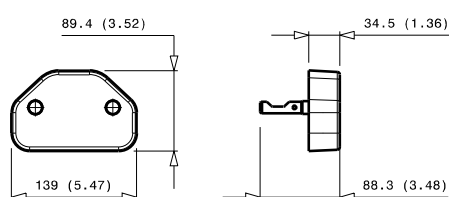
Fixed and mobile multicoupling

3,7 Kg and 1,8 Kg



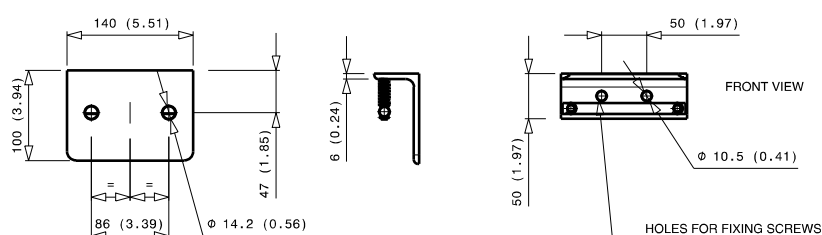
Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,6 Kg



Parking station for mobile multicoupling

1,1 Kg



GR4 2A-1B-1D-2EC

Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"		1/2"	5/8"	3/4"	1"	1-1/2"
GR4MRZN	18000 N	2	D	1		1		

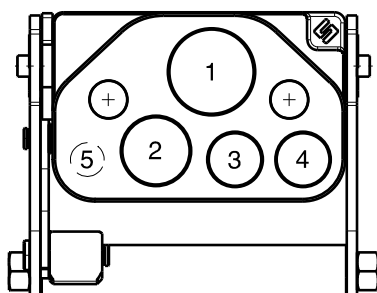


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP17ZN	-
2	FAP13ZN	-
3	FAP9DZN	YES
4	FAP9DZN	YES
5		*

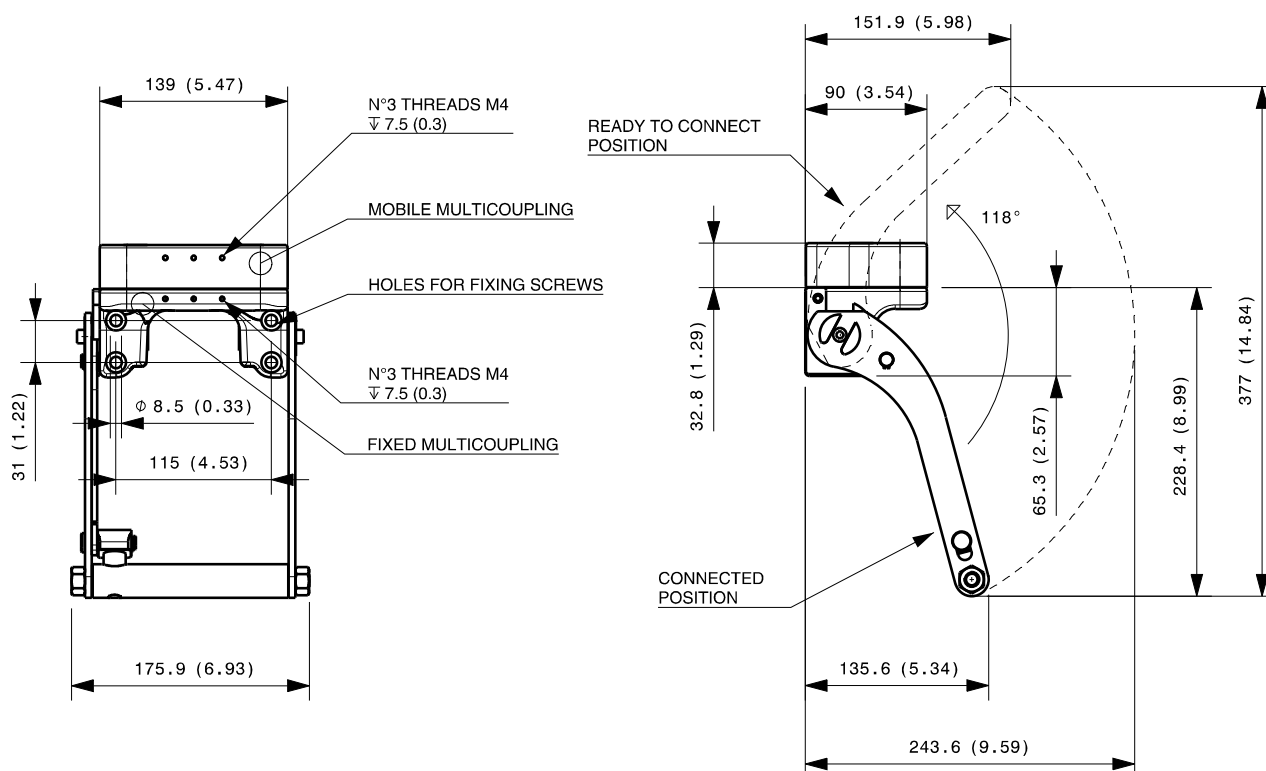
* - Holes Ø16 (0.63) for optional sensor.

MultiCoupling (couplings included)		
Code	Name	Description
870016015	MULTI COMPLETE GR4 2A-1B-1D	2 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP17 1' BSP - CAP
870016115	MULTI FIX GR4 2A-1B-1D	2 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP17 1' BSP
870016215	MULTI MOBILE GR4 2A-1B-1D	2 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP17 1' BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000280	MULTI FIX EMPTY GR4 2A-1B-1D-2EC
806000281	MULTI MOBILE EMPTY GR4 2A-1B-1D-2EC
815606244	CAP FIX MULTICOUPLING GR 139x90
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	KIT NR.1 COMPLETE LEVER GROUP GR

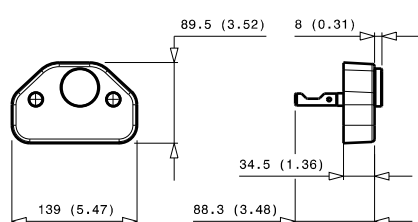
Fixed and mobile multicoupling

3,6 Kg and 1,7 Kg



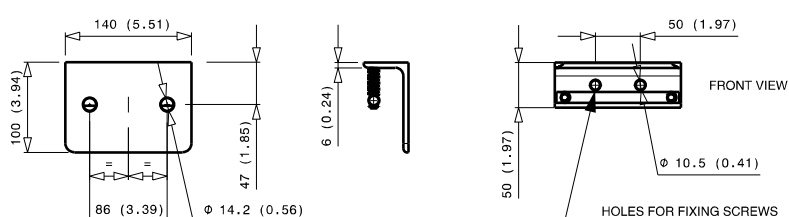
Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,6 Kg



Parking station for mobile multicoupling

1,1 Kg



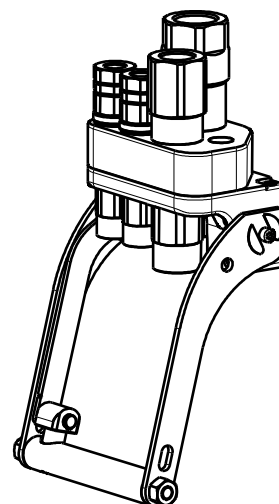
GR4 2A-1C-1D-2EC

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GRI4ZN	18000 N	2	D	1	1		

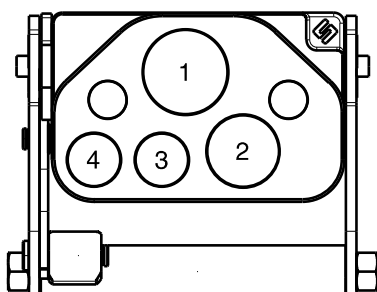


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP17ZN	-
2	FAP15ZN	-
3	FAP9DZN	YES
4	FAP9DZN	YES

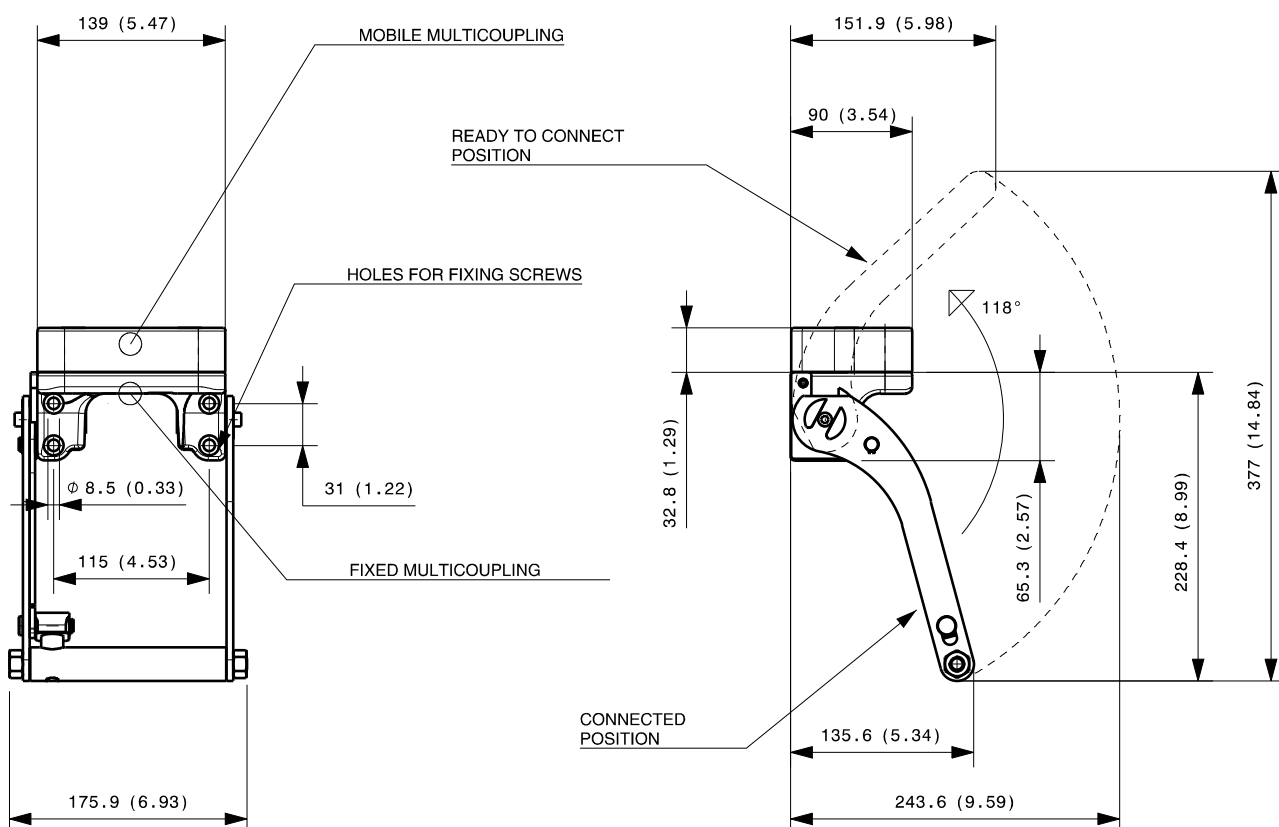
MultiCoupling (couplings included)		
Code	Name	Description
870015058	MULTI COMPLETE GR4 2A-1C-1D	2 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1' BSP - CAP
870015060	MULTI COMPLETE GR4 1A-1C-1D	1 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1' BSP - CAP
870015074	MULTI COMPLETE GR4 1C-1D	1 FAP15 3/4 BSP - 1 FAP17 1' BSP - CAP
870015086	MULTI COMPLETE GR4 1C-1D-2EC	1 FAP15 3/4 BSP - 1 FAP17 1' BSP - 2EC6 - CAP
870015095	MULTI COMPLETE GR4 2A-1C	2 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - CAP
870015158	MULTI FIX GR4 2A-1C-1D	2 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1' BSP
870015258	MULTI MOBILE GR4 2A-1C-1D	2 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1' BSP
870015260	MULTI MOBILE GR4 1A-1C-1D	1 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1' BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000282	MULTI FIX EMPTY GR4 2A-1C-1D-2EC
806000283	MULTI MOBILE EMPTY GR4 2A-1C-1D-2EC
815606246	CAP FIX MULTICOUPLING GR 139x90
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

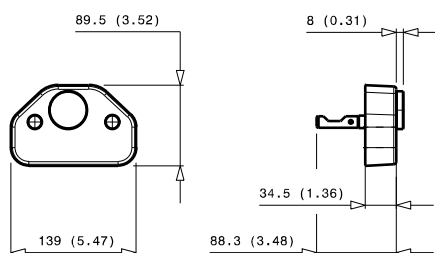
Fixed and mobile multicoupling

3,6 Kg and 1,7 Kg



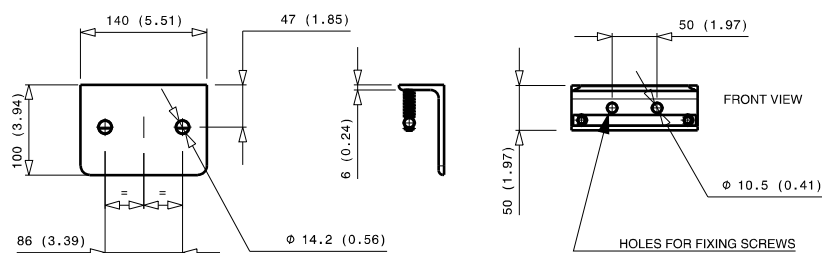
Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,6 Kg



Parking station for mobile multicoupling

1,1 Kg



GR4 2A-2C-2EC

Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"		1/2"	5/8"	3/4"	1"	1-1/2"
GRI4TBZN	18000 N	2	D		2			

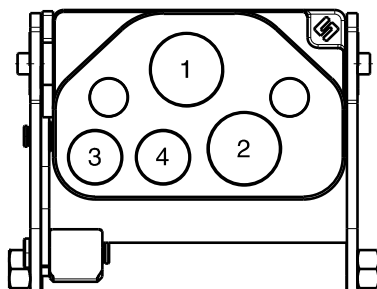


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP15ZN	-
3	FAP9DZN	YES
4	FAP9DZN	YES

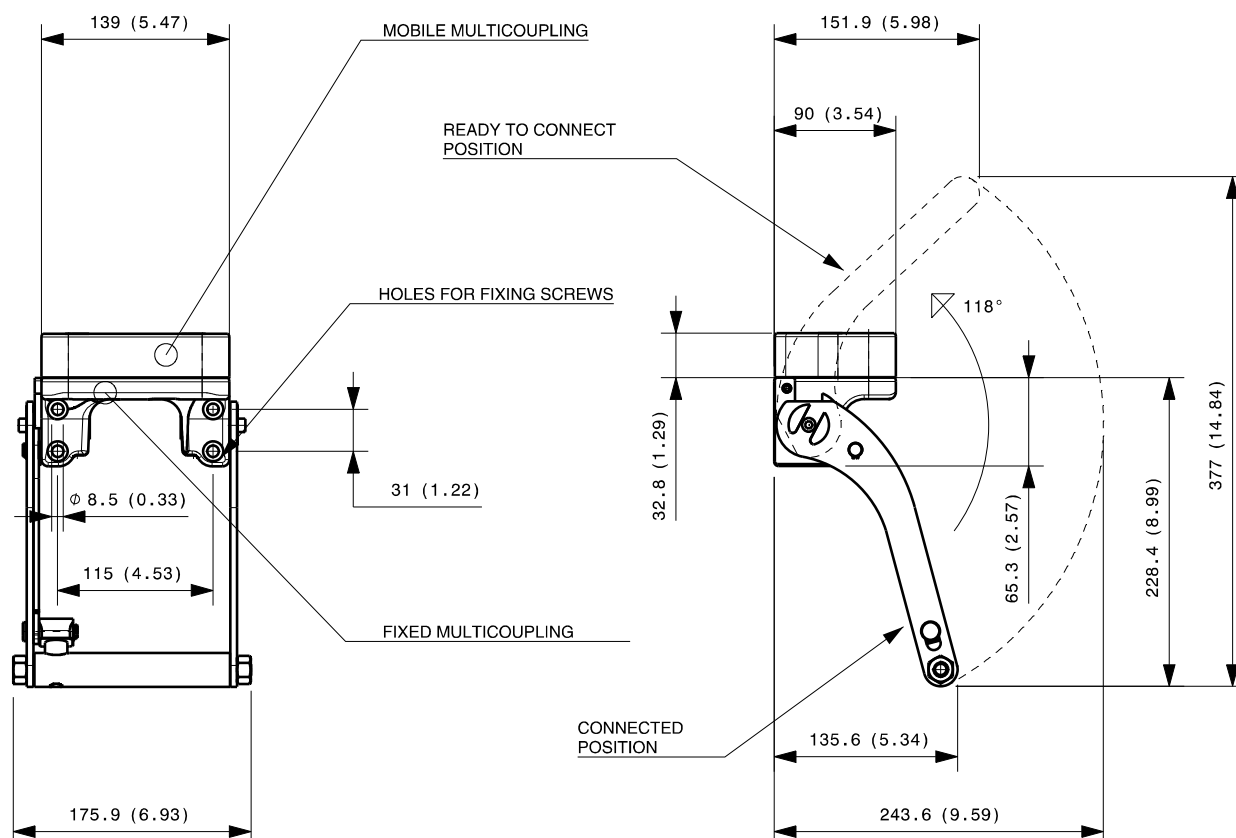
MultiCoupling (couplings included)		
Code	Name	Description
870016008	MULTI COMPLETE GR4 1A-2C-1EC	1 FAP9D 1/2 BSP - 2 FAP15 3/4 BSP - 1EC7 - CAP
870016107	MULTI FIX GR4 2A-2C	2 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP EXT
870016108	MULTI FIX GR4 1A-2C-1EC	1 FAP9D 1/2 BSP - 2 FAP15 3/4 BSP - 1EC7
870016111	MULTI FIX GR4 1A-2C	1 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP
870016207	MULTI MOBILE GR4 2A-2C	2 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP EXT
870016208	MULTI MOBILE GR4 1A-1C-1EC	1 FAP9D 1/2 BSP - 1 FAP15 3/4 BSP - 1EC7
870016211	MULTI MOBILE GR4 1A-2C	1 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP

MultiCoupling spare parts (couplings not included)		
Code	Name	
806000278	MULTI FIX EMPTY GR4 2A-2C-2EC	
806000279	MULTI MOBILE EMPTY GR4 2A-2C-2EC	
815606246	CAP FIX MULTICOUPLING GR 139x90	
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100	
815701052	KIT NR.1 COMPLETE LEVER GROUP GR	

Custom configurations
available upon request

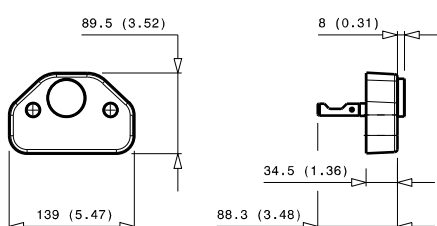
Fixed and mobile multicoupling

3,7 Kg and 1,7 Kg



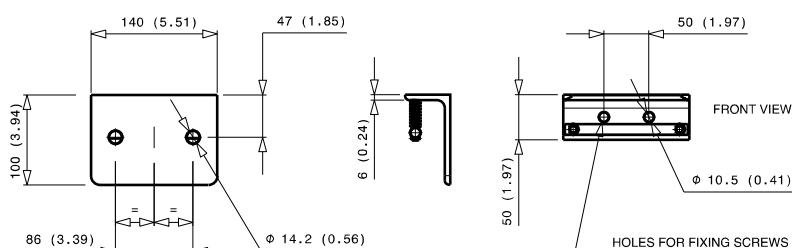
Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,6 Kg



Parking station for mobile multicoupling

1,1 Kg



GR5 2B-3D-2EC

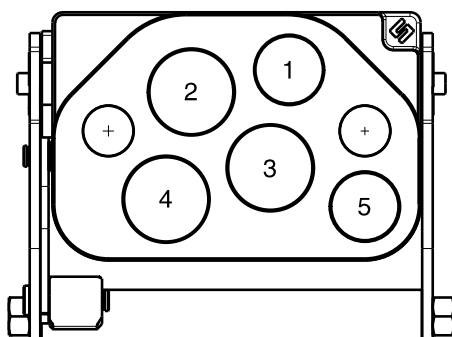
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GR5AAZN	23000 N		2		3		



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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	YES
2	FAP17ZN	-
3	FAP17ZN	-
4	FAP17ZN	-
5	FAP13ZN	YES

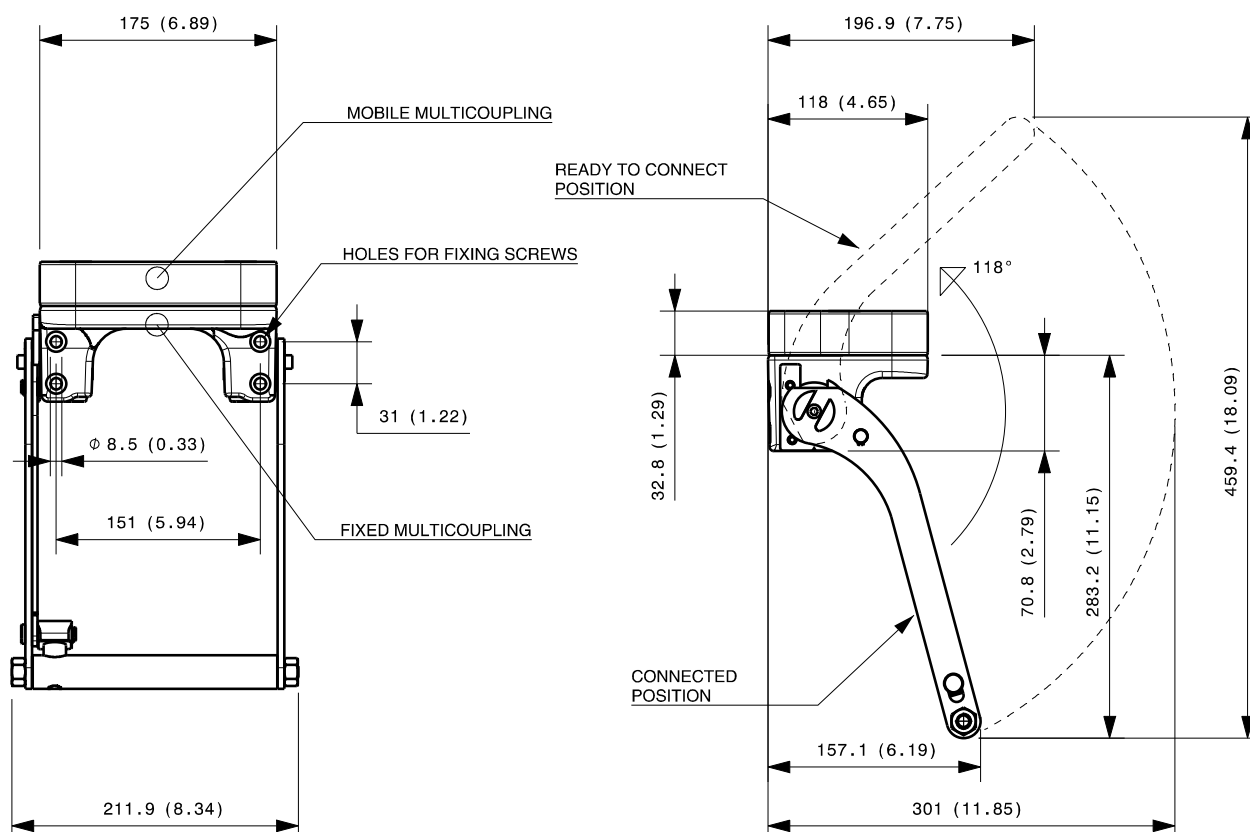
MultiCoupling (couplings included)		
Code	Name	Description
870015080	MULTI COMPLETE GR5 2B-3D	2 FAP13 1/2 BSP - 3 FAP17 3/4 BSP - CAP
870015180	MULTI FIX GR5 2B-3D	2 FAP13 1/2 BSP - 3 FAP17 3/4 BSP
870015280	MULTI MOBILE GR5 2B-3D	2 FAP13 1/2 BSP - 3 FAP17 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000312	MULTI FIX EMPTY GR5 2B-3D-2EC
806000313	MULTI MOBILE EMPTY GR5 2B-3D-2EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

Fixed and mobile multicoupling

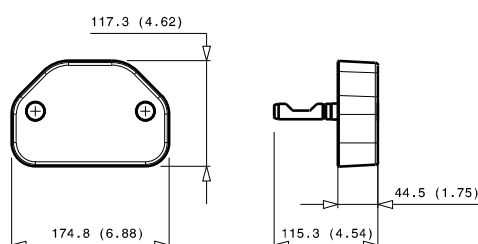
5,5 Kg and 2,7 Kg

GR



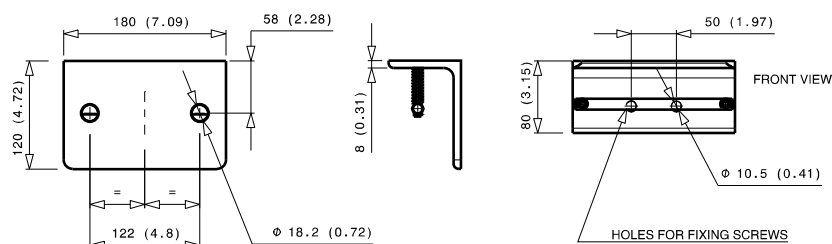
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

2,4 Kg

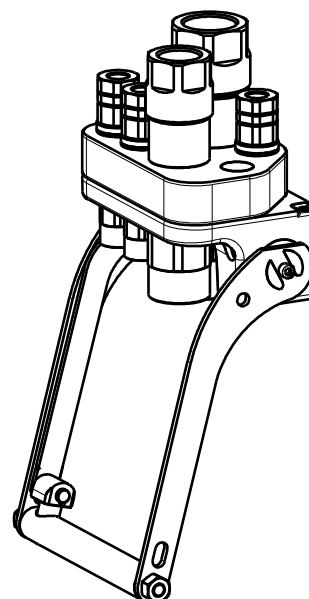


GR5 3A-1D-1E-2EC

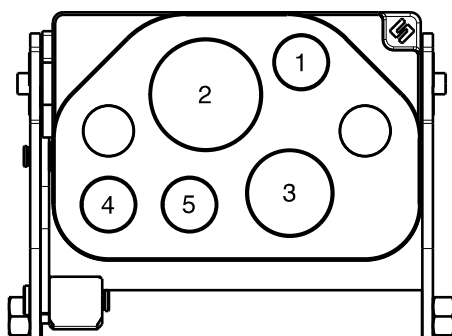
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GRD5ZN	23000 N	3	D		1	1	



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9DZN	-
2	FAP21ZN	-
3	FAP17ZN	-
4	FAP9DZN	YES
5	FAP9DZN	YES

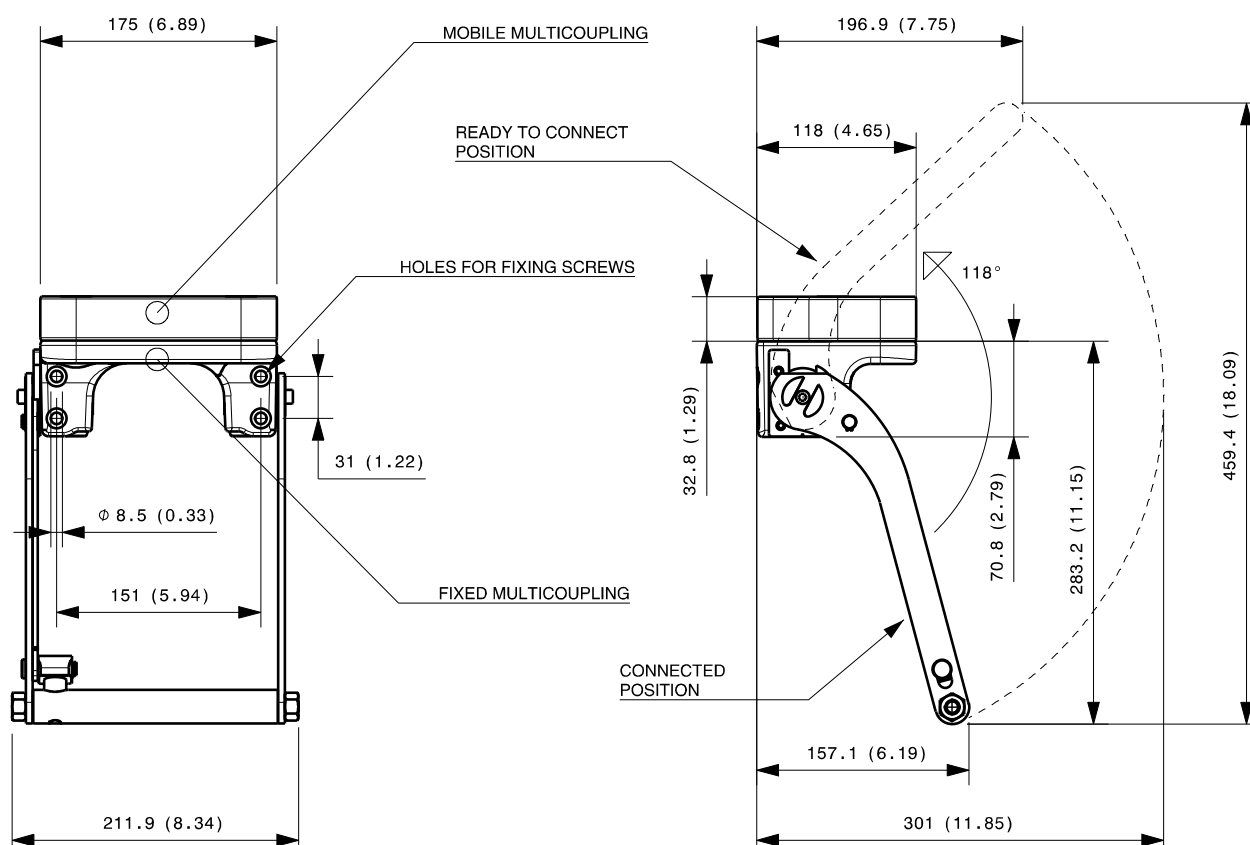
MultiCoupling (couplings included)		
Code	Name	Description
870015066	MULTI COMPLETE GR5 2A-1D-1E	2 FAP9D 3/8 BSP - 1 FAP17 1' BSP - 1 FAP21 1-1/4 BSP - CAP
870015079	MULTI COMPLETE GR5 1A-1D-1E-1EC	1 FAP9D 3/8 BSP - 1 FAP17 3/4 BSP - 1 FAP21 1 BSP - 1EC6 - CAP
870015084	MULTI COMPLETE GR5 1D-1E-2EC	1 FAP17 3/4 BSP - 1 FAP21 1' BSP - 2EC6 - CAP
870015099	MULTI COMPLETE GR5 2A-1D-1E	2 FAP9D 3/8 BSP - 1 FAP17 3/4 BSP - 1 FAP21 1' BSP - CAP
870016000	MULTI COMPLETE GR5 3A-1D-1E	3 FAP9D 1/2 BSP - 1 FAP17 1' BSP - 1 FAP21 1-1/4 BSP - CAP
870015199	MULTI FIX GR5 2A-1D-1E	2 FAP9D 3/8 BSP - 1 FAP17 3/4 BSP - 1 FAP21 1' BSP
870015261	MULTI MOBILE GR5 2A-1D-1E	2 FAP9D 1/2 BSP - 1 FAP17 1' BSP - 1 FAP21 1-1/4 BSP
870015284	MULTI MOBILE GR5 1D-1E-2EC	1 FAP17 3/4 BSP - 1 FAP21 1' BSP - 2EC6
870015299	MULTI MOBILE GR5 2A-1D-1E	2 FAP9D 3/8 BSP - 1 FAP17 3/4 BSP - 1 FAP21 1' BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000316	MULTI FIX EMPTY GR5 3A-1D-1E-2EC
806000317	MULTI MOBILE EMPTY GR5 3A-1D-1E-2EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

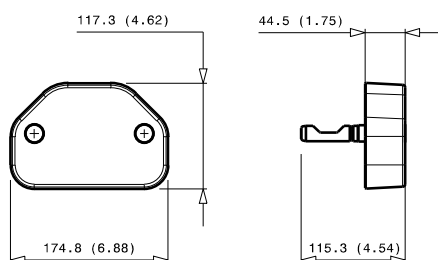
Fixed and mobile multicoupling

5,6 Kg and 2,8 Kg



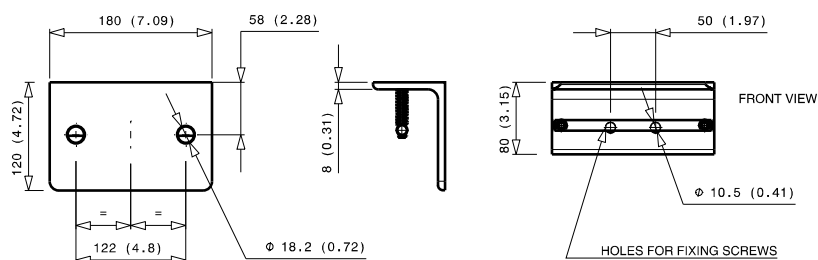
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

2,4 Kg

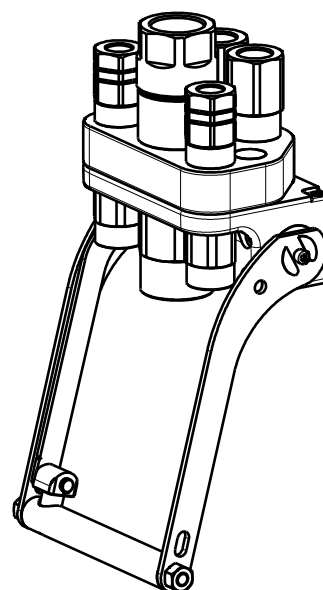


GR5 2B-2C-1E-2EC

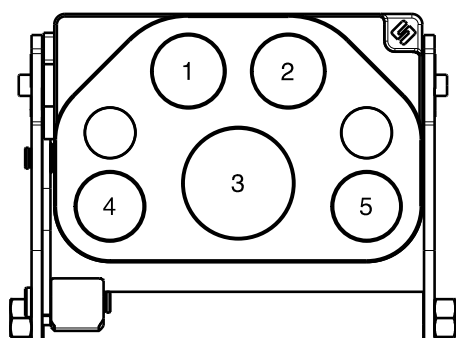
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GRZ5ZN	23000 N		2	2		1	



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP15ZN	-
3	FAP21ZN	-
4	FAP13ZN	YES
5	FAP13ZN	YES

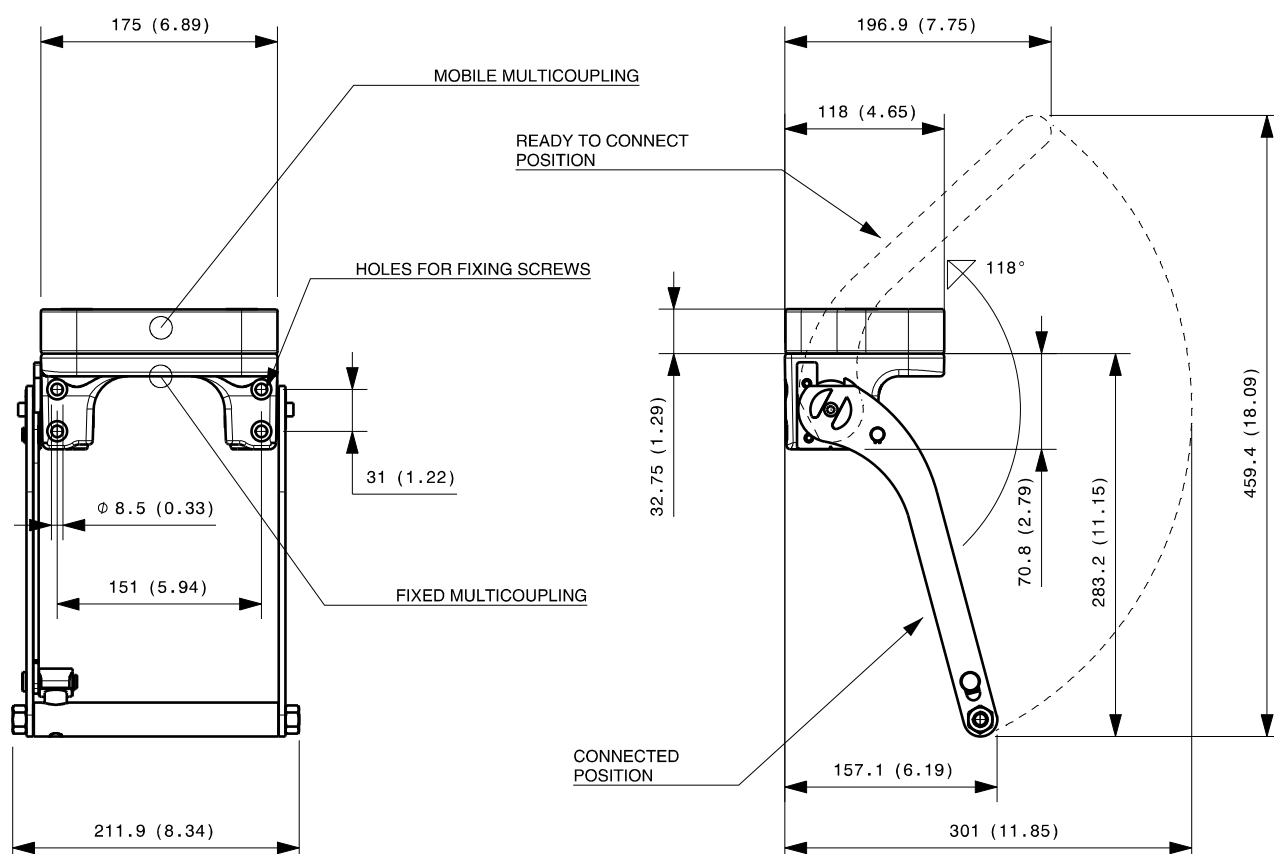
MultiCoupling (couplings included)		
Code	Name	Description
870015063	MULTI COMPLETE GR5 2B-2C-1E	2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP - 1 FAP21 1-1/4 BSP - CAP
870015097	MULTI COMPLETE GR5 2C-1E	2 FAP15 3/4 BSP - 1 FAP21 1' BSP - CAP
870016003	MULTI COMPLETE GR5 2C-1E	2 FAP15 3/4 BSP - 1 FAP21 1-1/4 BSP - CAP
870016012	MULTI COMPLETE GR5 2B-2C	2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP - CAP
870015157	MULTI FIX GR5 1B-2C-1E	1 FAP13 1/2 BSP - 2 FAP15 3/4 BSP - 1 FAP21 1' BSP
870015257	MULTI MOBILE GR5 1B-2C-1E	1 FAP13 1/2 BSP - 2 FAP15 3/4 BSP - 1 FAP21 1' BSP

MultiCoupling spare parts (couplings not included)		
Code	Name	
806000314	MULTI FIX EMPTY GR5 2B-2C-1E	
806000315	MULTI MOBILE EMPTY GR5 2B-2C-1E	
815606260	CAP FIX MULTICOUPLING GR 175x117	
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120	
815701055	KIT NR.1 COMPLETE LEVER GROUP GR	

Custom configurations
available upon request

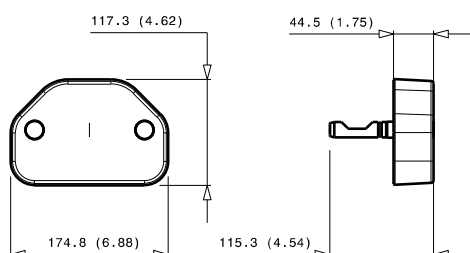
Fixed and mobile multicoupling

5,5 Kg and 2,6 Kg



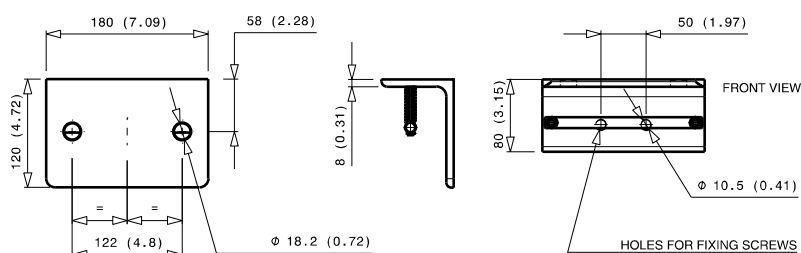
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

2,4 Kg

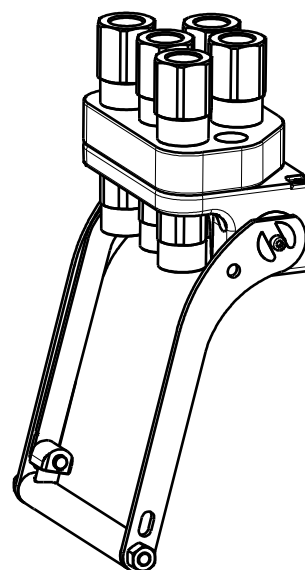


GR5 5C

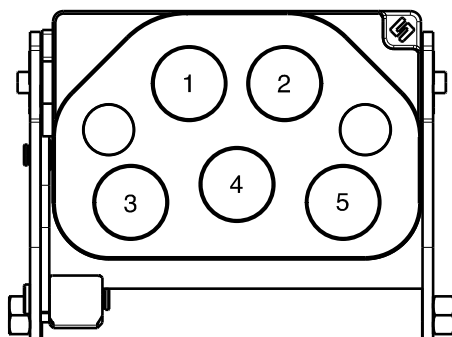
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GR5-15ZN	23000 N			5			



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP15ZN	-
3	FAP15ZN	*
4	FAP15ZN	-
5	FAP15ZN	*

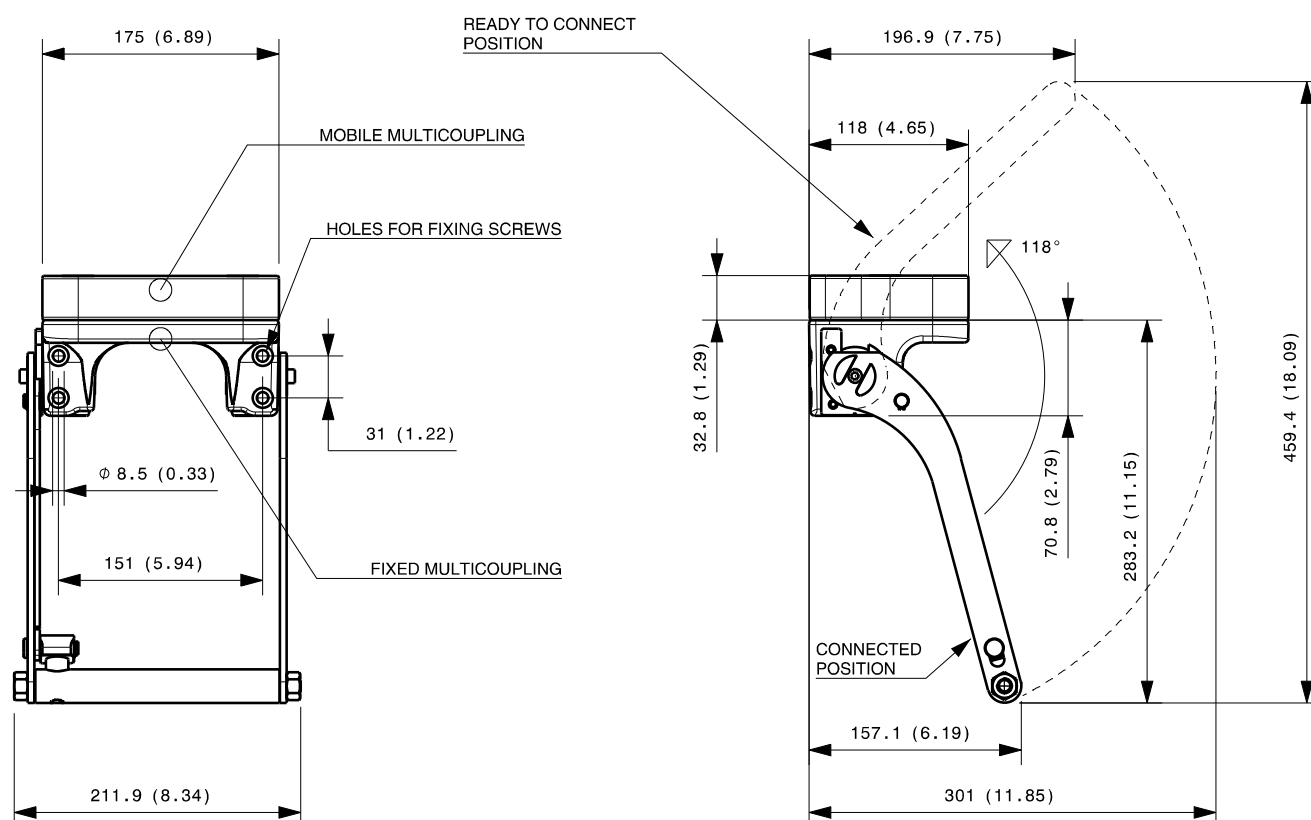
* upon request

MultiCoupling (couplings included)		
Code	Name	Description
870016010	MULTI COMPLETE GR5 5C	5 FAP15 3/4 BSP - CAP
870016110	MULTI FIX GR5 5C	5 FAP15 3/4 BSP
870016210	MULTI MOBILE GR5 5C	5 FAP15 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000326	MULTI FIX EMPTY GR5 5C
806000327	MULTI MOBILE EMPTY GR5 5C
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

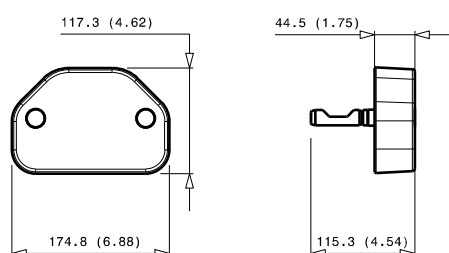
Fixed and mobile multicoupling

5,6 Kg and 2,8 Kg



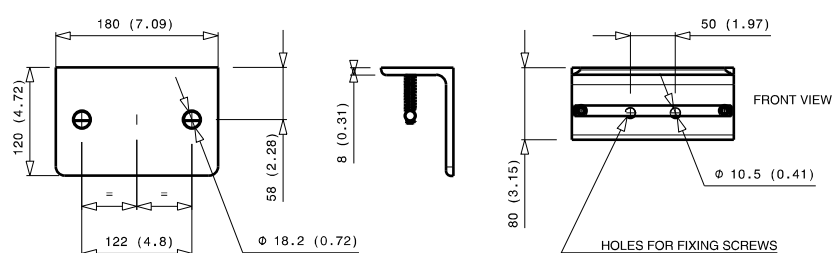
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

2,4 Kg



GR6 6A-2EC

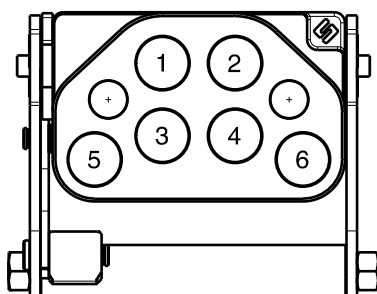
Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"		1/2"	5/8"	3/4"	1"	1-1/2"
GR6-9ZN	18000 N	6	A					



DRAWING



CONFIGURATIONS



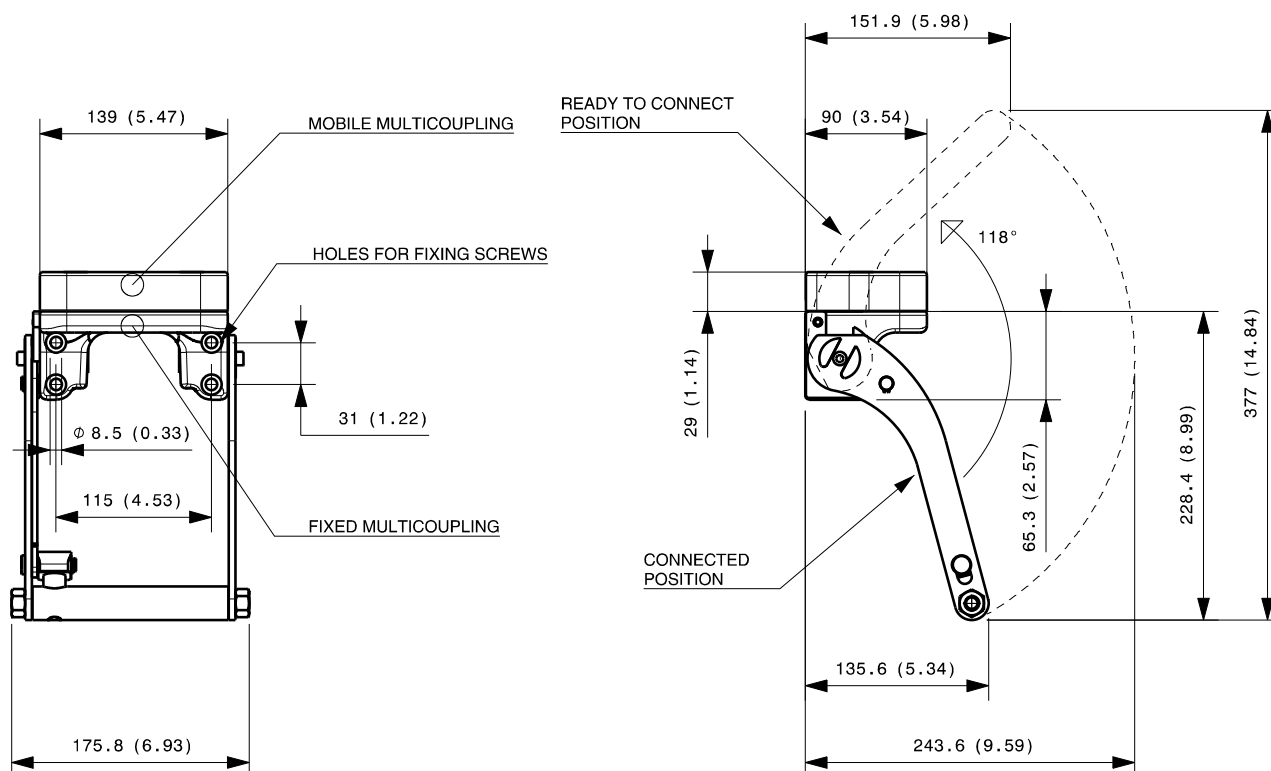
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9AZN	-
2	FAP9AZN	-
3	FAP9AZN	-
4	FAP9AZN	-
5	FAP9AZN	YES
6	FAP9AZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870000075	MULTI COMPLETE GR6 6A	6 FAP9A 1/2 BSP - CAP
870000079	MULTI COMPLETE GR6 6A	6 FAP9A 3/8 BSP - CAP
870000080	MULTI COMPLETE GR6 4A	4 FAP9A 1/2 BSP - CAP
870000081	MULTI COMPLETE GR6 6A-2EC	4 FAP9A L15 - 2EC7 - CAP
870000083	MULTI COMPLETE GR6 4A-1EC	4 FAP9A 3/8 BSP - 1EC7 - CAP
870015096	MULTI COMPLETE GR6 5A	5 FAP9A 1/4 BSP - CAP
870000172	MULTI FIX GR6 2A	2 FAP9A 3/8 BSP
870000174	MULTI FIX GR6 5A	5 FAP9A 3/8 BSP
870000179	MULTI FIX GR6 6A	6 FAP9A 3/8 BSP
870000180	MULTI FIX GR6 4A	4 FAP9A 1/2 BSP
870000273	MULTI MOBILE GR6 5A	5 FAP9A 3/8 BSP
870000280	MULTI MOBILE GR6 4A	4 FAP9A 1/2 BSP

MultiCoupling spare parts (couplings not included)		
Code	Name	
806000262	MULTI FIX EMPTY GR6 6A-2EC	
806000263	MULTI MOBILE EMPTY GR6 6A-2EC	
815606248	CAP FIX MULTICOUPLING GR 139x89	
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100	
815701052	KIT NR.1 COMPLETE LEVER GROUP GR	

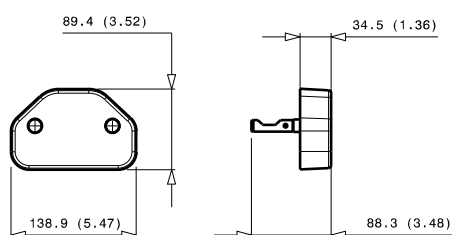
Fixed and mobile multicoupling

3,7 Kg and 1,5 Kg



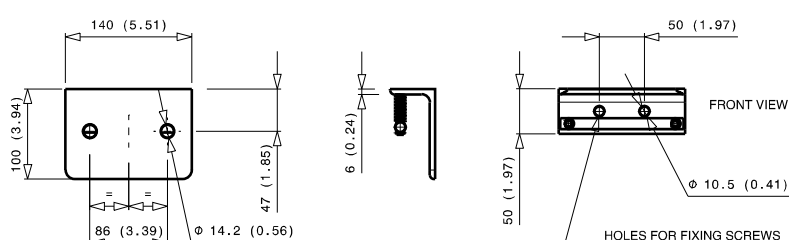
Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,6 Kg



Parking station for mobile multicoupling

1,1 Kg

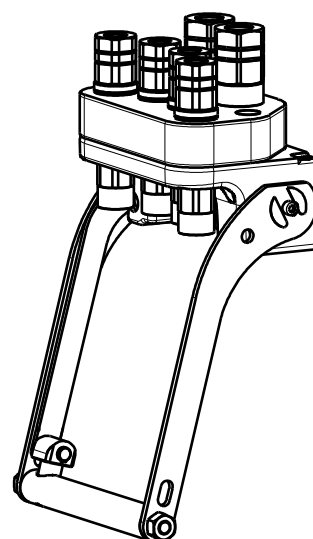


GR6 4A-2B-2EC

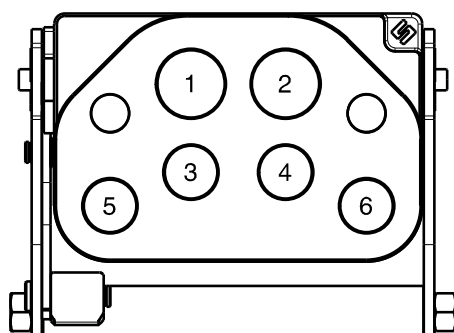
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GRT6ZN	23000 N	4	D	2			



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	-
2	FAP13ZN	-
3	FAP9DZN	-
4	FAP9DZN	-
5	FAP9DZN	YES
6	FAP9DZN	YES

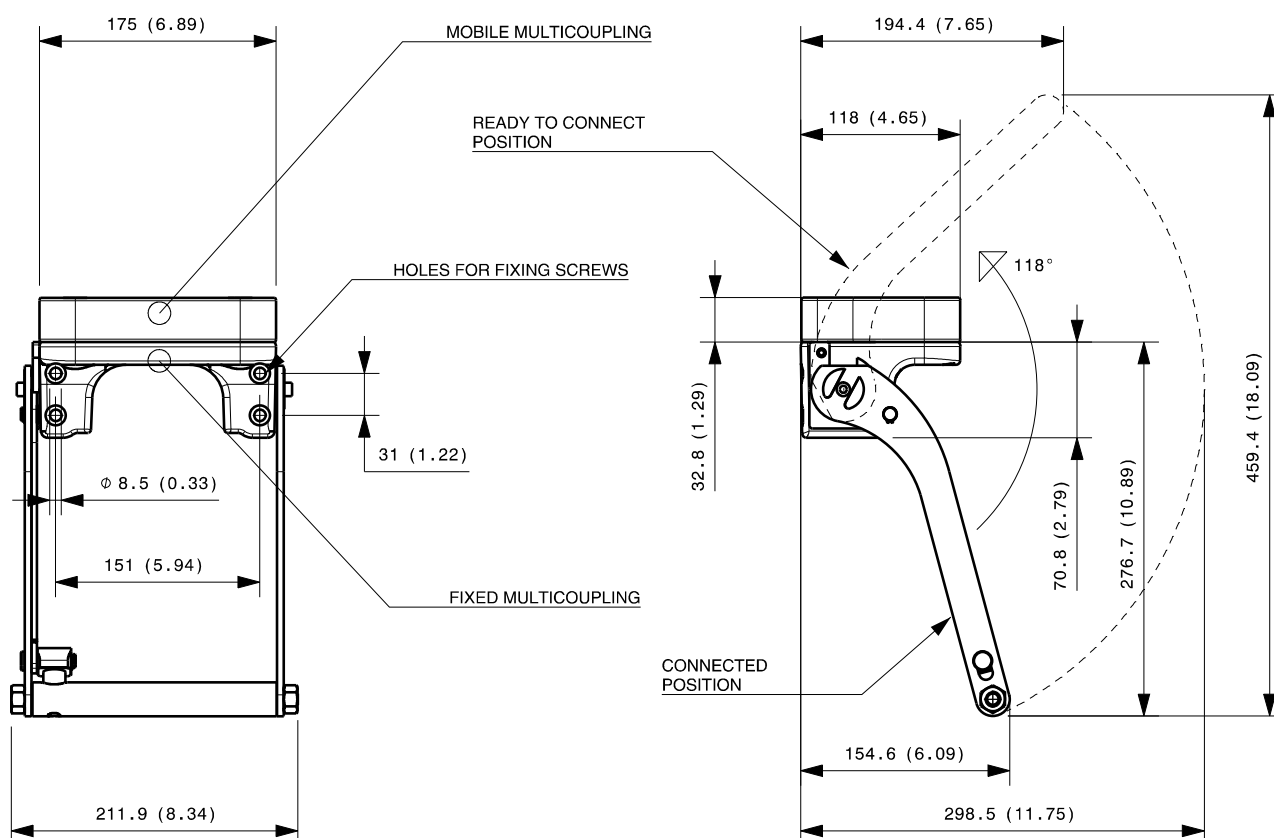
MultiCoupling (couplings included)		
Code	Name	Description
870015064	MULTI COMPLETE GR6 4A-2B	4 FAP9D 1/2 BSP - 2 FAP13 3/4 BSP - CAP
870016002	MULTI COMPLETE GR6 4A-2B	4 FAP9D 3/8 BSP - 2 FAP13 3/4 BSP - CAP
870015190	MULTI FIX GR6 4A-2B	4 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP13 3/4 BSP
870015290	MULTI MOBILE GR6 4A-2B	4 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP13 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000294	MULTI FIX EMPTY GR6 4A-2B-2EC
806000295	MULTI MOBILE EMPTY GR6 4A-2B-2EC
815606256	CAP FIX MULTICOUPLING GR 175x117
815606257	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815700999	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

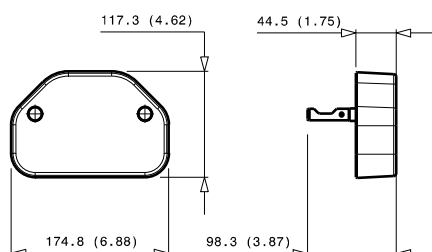
Fixed and mobile multicoupling

5,9 Kg and 2,8 Kg



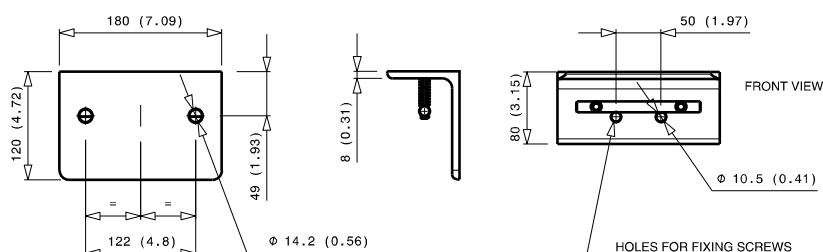
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,1 Kg



Parking station for mobile multicoupling

2,2 Kg



GR6 4B-2D-4EC

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GR6ABZN	23000 N		4		2		

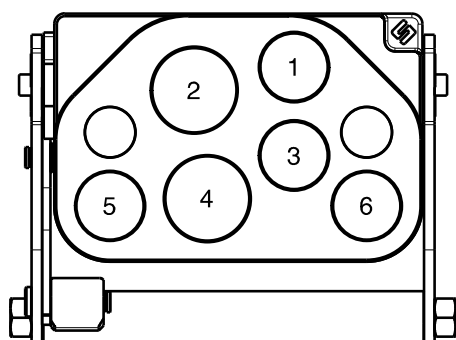


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	YES
2	FAP17ZN	-
3	FAP13ZN	YES
4	FAP17ZN	-
5	FAP13ZN	YES
6	FAP13ZN	YES

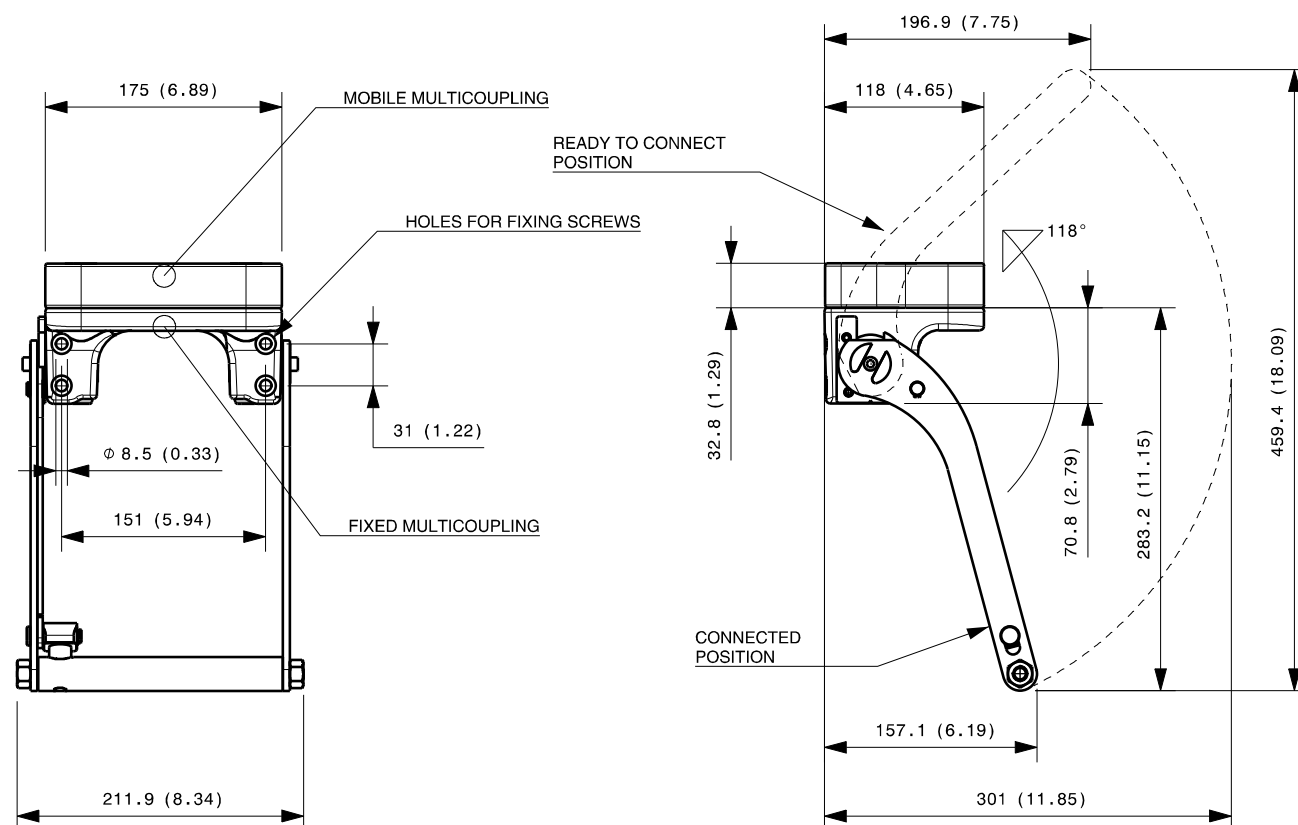
MultiCoupling (couplings included)		
Code	Name	Description
870015073	MULTI COMPLETE GR6 4B-2D	4 FAP13 1/2 BSP - 2 FAP17 3/4 BSP - CAP
870015173	MULTI FIX GR6 4B-2D	4 FAP13 1/2 BSP - 2 FAP17 3/4 BSP
870015273	MULTI MOBILE GR6 4B-2D	4 FAP13 1/2 BSP - 2 FAP17 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000322	MULTI FIX EMPTY GR6 4B-2D-4EC
806000323	MULTI MOBILE EMPTY GR6 4B-2D-4EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

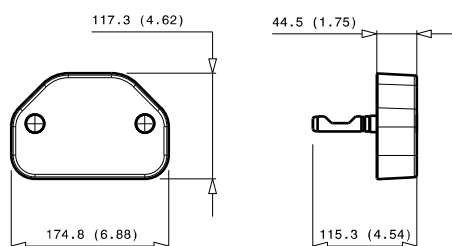
Fixed and mobile multicoupling

5,4 Kg and 2,6 Kg



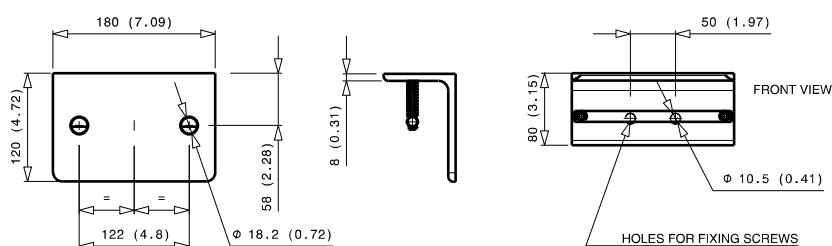
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

2,4 Kg



GR6 2A-2B-2C-2EC

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GRM6MCZN	23000 N	2	D	2	2		

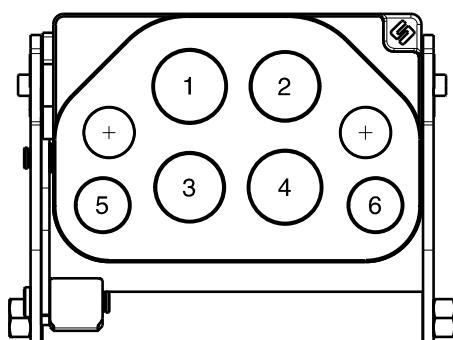


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP13ZN	-
3	FAP13ZN	-
4	FAP15ZN	-
5	FAP9DZN	YES
6	FAP9DZN	YES

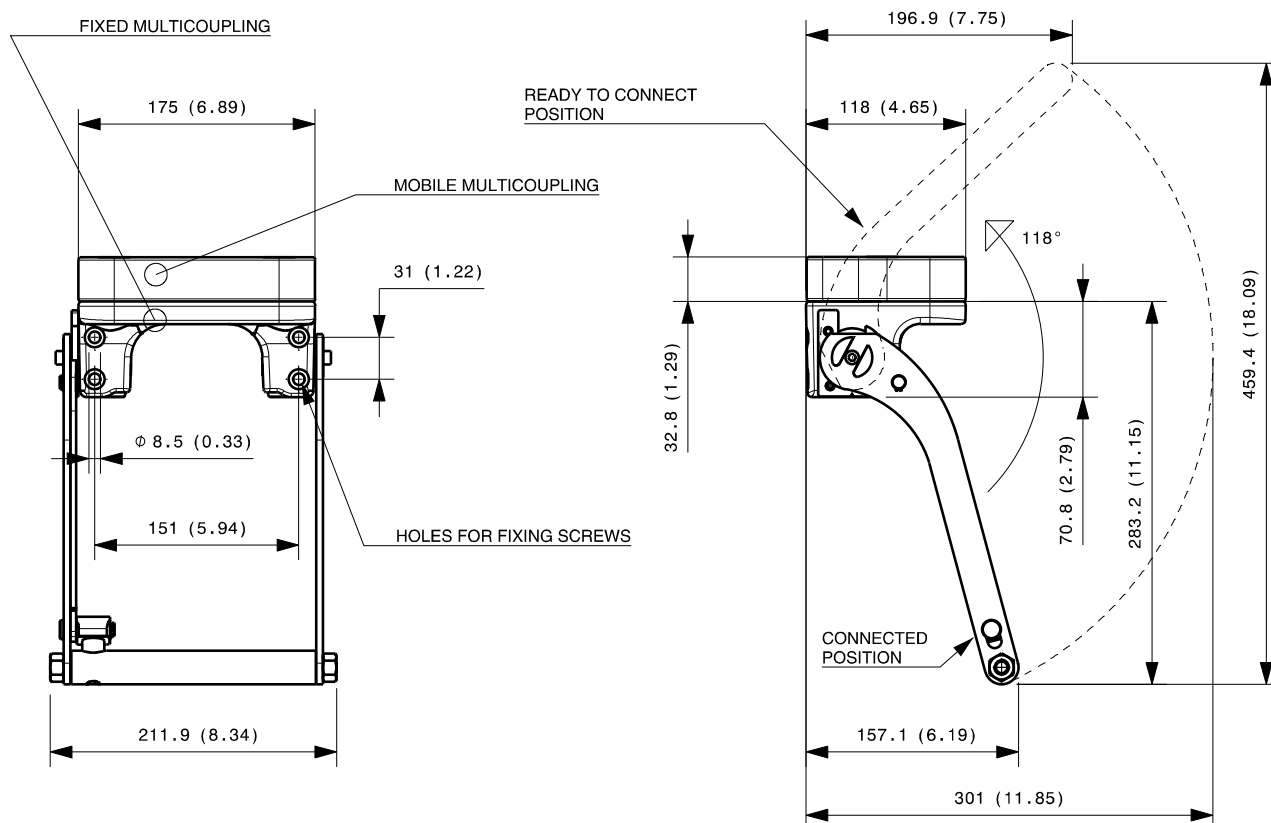
MultiCoupling (couplings included)		
Code	Name	Description
870016016	MULTI COMPLETE GR6 2A-2B-2C	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP - CAP
870016116	MULTI FIX GR6 2A-2B-2C	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP
870016216	MULTI MOBILE GR6 2A-2B-2C	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000318	MULTI FIX EMPTY GR6 2A-2B-2C-2EC
806000319	MULTI MOBILE EMPTY GR6 2A-2B-2C-2EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

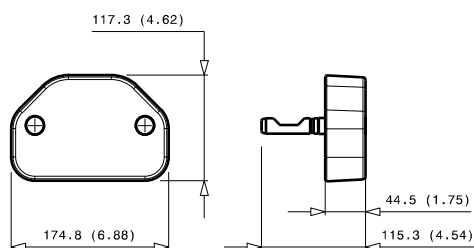
Fixed and mobile multicoupling

5,7 Kg and 2,9 Kg

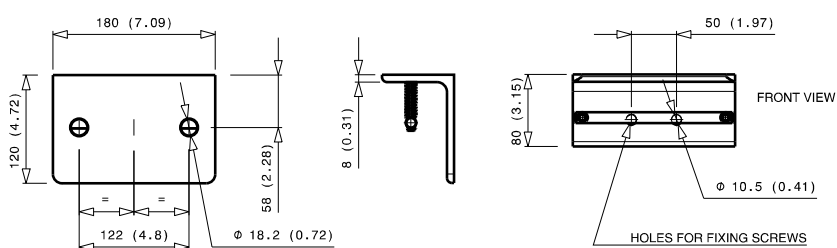


Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling 2,4 Kg



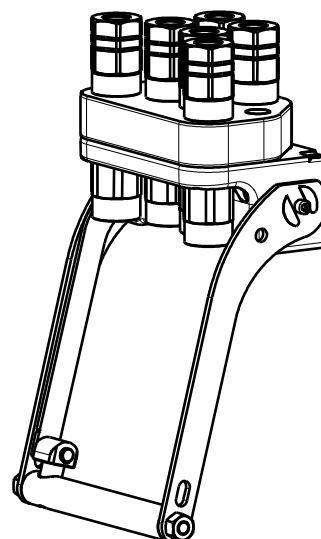
GR6 6B-2EC

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GR6-13ZN	23000 N		6				

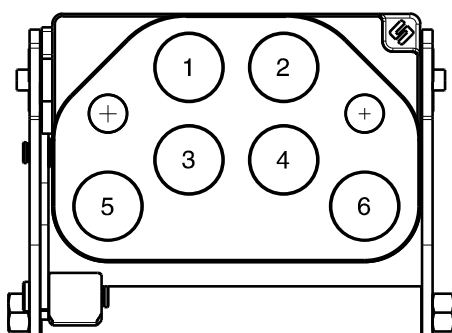


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	-
2	FAP13ZN	-
3	FAP13ZN	-
4	FAP13ZN	-
5	FAP13ZN	YES
6	FAP13ZN	YES

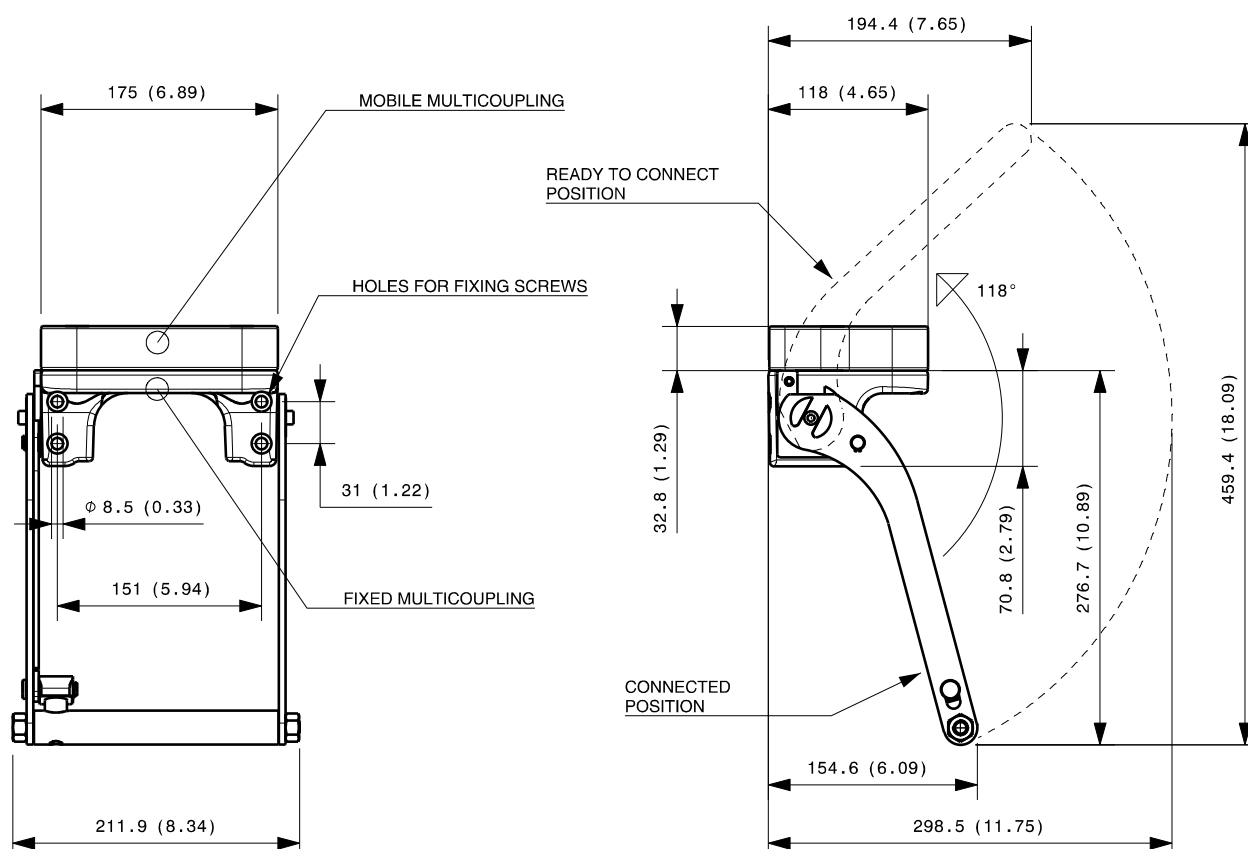
MultiCoupling (couplings included)		
Code	Name	Description
870002030	MULTI COMPLETE GR6 6B	6 FAP13 3/4 BSP - CAP
870002031	MULTI COMPLETE GR6 6B	6 FAP13 1/2 BSP - CAP
870002130	MULTI FIX GR6 6B	6 FAP13 3/4 BSP
870002131	MULTI FIX GR6 6B	6 FAP13 1/2 BSP
870002230	MULTI MOBILE GR6 6B	6 FAP13 3/4 BSP
870002231	MULTI MOBILE GR6 6B	6 FAP13 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000292	MULTI FIX EMPTY GR6 6B-2EC
806000293	MULTI MOBILE EMPTY GR6 6B-2EC
815606256	CAP FIX MULTICOUPLING GR 175x117
815606257	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815700999	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

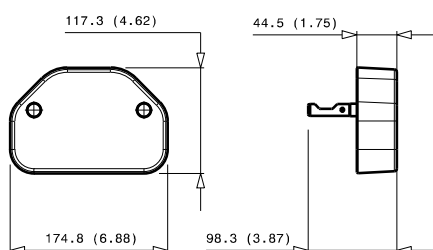
Fixed and mobile multicoupling

5,8 Kg and 2,7 Kg



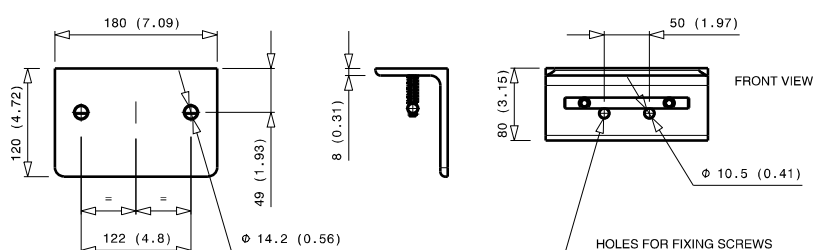
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,1 Kg



Parking station for mobile multicoupling

2,2 Kg



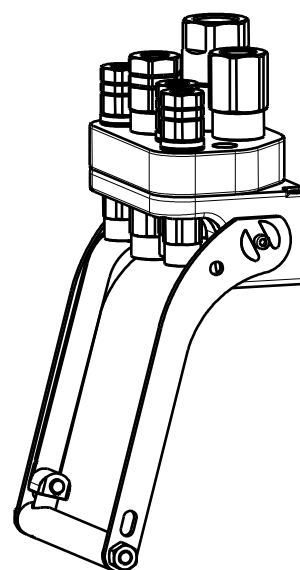
GR6 3A-1B-1C-1D-2EC

Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"		1/2"	5/8"	3/4"	1"	1-1/2"
GRC6ZN	23000 N	3	D	1	1	1		

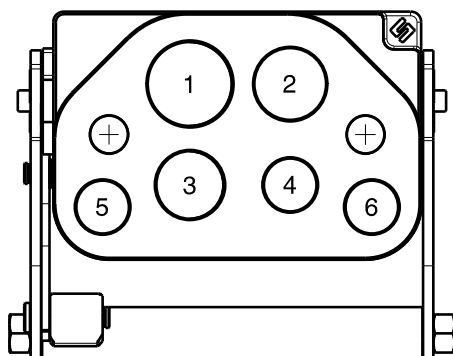


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP17ZN	-
2	FAP15ZN	-
3	FAP13ZN	-
4	FAP9DZN	-
5	FAP9DZN	YES
6	FAP9DZN	YES

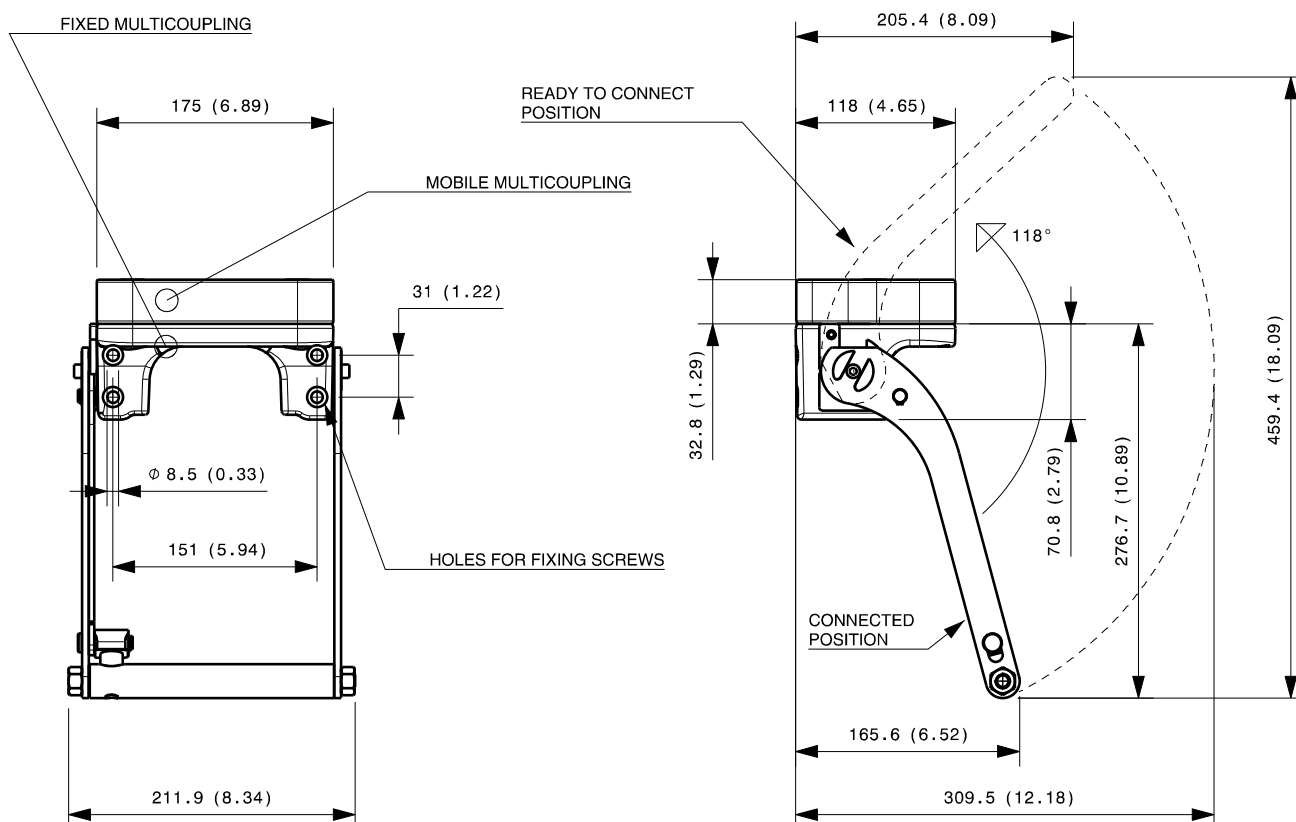
MultiCoupling (couplings included)		
Code	Name	Description
870016017	MULTI COMPLETE GR6 3A-1B-1C-1D	3 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1' BSP - CAP
870016117	MULTI FIX GR6 3A-1B-1C-1D	3 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1' BSP
870016217	MULTI MOBILE GR6 3A-1B-1C-1D	3 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1' BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000296	MULTI FIX EMPTY GR6 3A-1B-1C-1D-2EC
806000297	MULTI MOBILE EMPTY GR6 3A-1B-1C-1D-2EC
815606258	CAP FIX MULTICOUPLING GR 175x117
815606259	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815700999	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

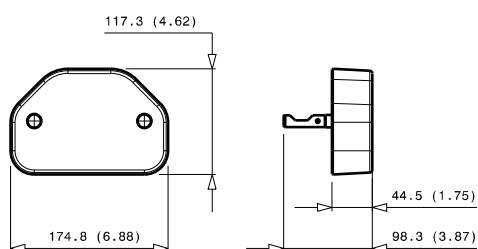
Fixed and mobile multicoupling

5,8 Kg and 2,8 Kg



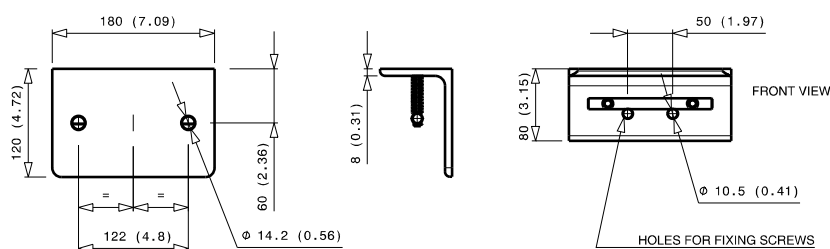
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,1 Kg



Parking station for mobile multicoupling

2,2 Kg



GR6 1A-1B-1C-2D-1EC

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GRP6ZN	23000 N	1	D	1	1	2	

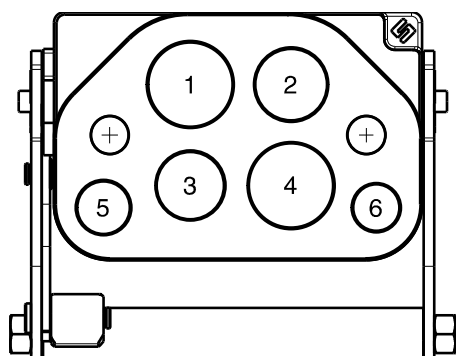


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP17ZN	-
2	FAP15ZN	-
3	FAP13ZN	-
4	FAP17ZN	-
5	FAP9DZN	YES
6	PLUG	-

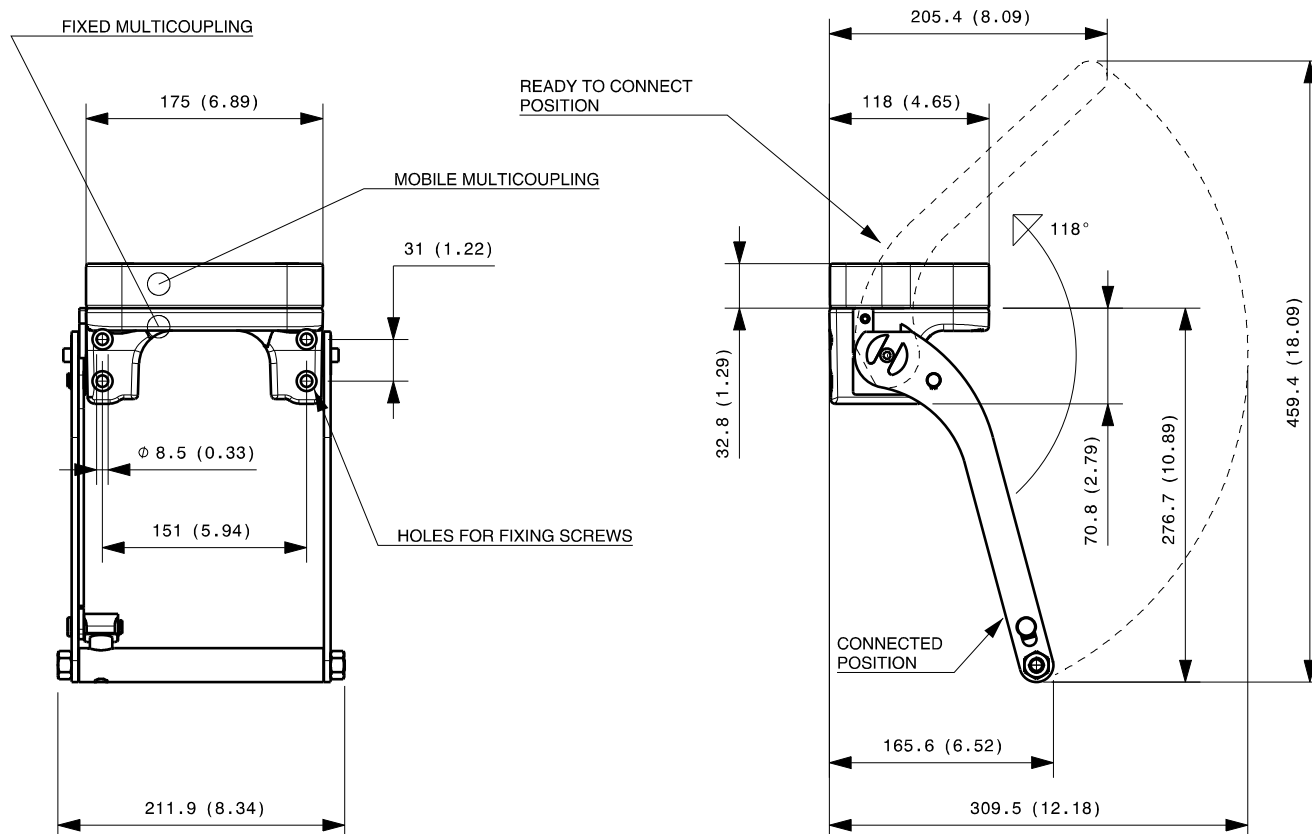
MultiCoupling (couplings included)		
Code	Name	Description
870016018	MULTI COMPLETE GR6 1A-1B-1C-2D	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 2 FAP17 1' BSP - CAP
870016118	MULTI FIX GR6 1A-1B-1C-2D	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 2 FAP17 1' BSP
870016218	MULTI MOBILE GR6 1A-1B-1C-2D	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 2 FAP17 1' BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000298	MULTI FIX EMPTY GR6 1A-1B-1C-2D-1EC
806000299	MULTI MOBILE EMPTY GR6 1A-1B-1C-2D-1EC
815606258	CAP FIX MULTICOUPLING GR 175x117
815606259	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815700999	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

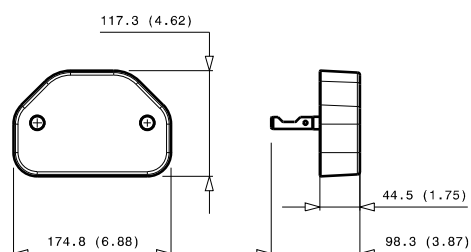
Fixed and mobile multicoupling

5,7 Kg and 2,6 Kg



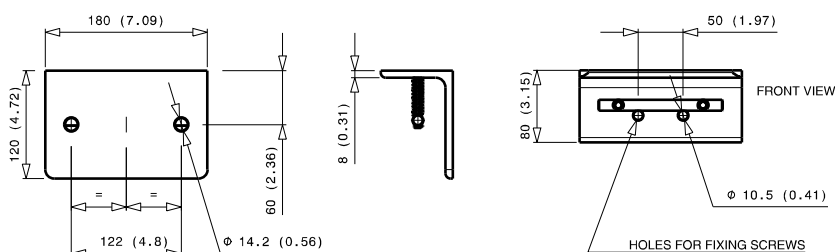
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,1 Kg



Parking station for mobile multicoupling

2,2 Kg



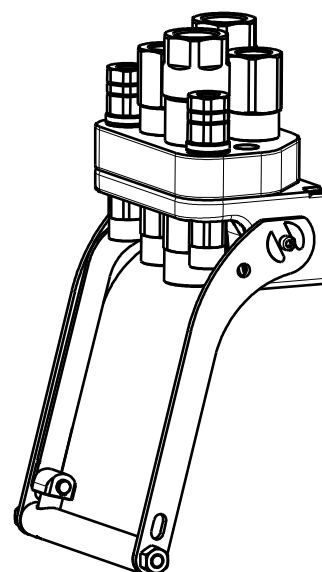
GR6 2A-2C-2D-2EC

Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	D	1/2"	5/8"	3/4"	1"	1-1/2"
GRM6ZN	23000 N	2	D		2	2		

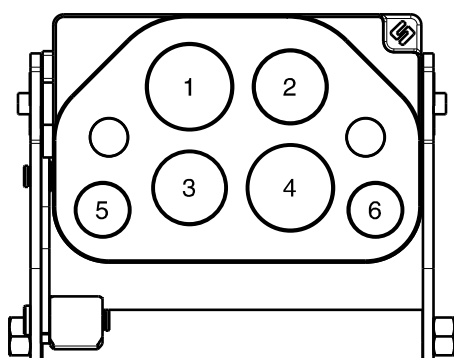


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP17ZN	-
2	FAP15ZN	-
3	FAP15ZN	-
4	FAP17ZN	-
5	FAP9DZN	YES
6	FAP9DZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870015062	MULTI COMPLETE GR6 1A-2C-2D	1 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP - 2 FAP17 1' BSP - CAP
870015092	MULTI COMPLETE GR6 2A-2C-2D	2 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP - 2 FAP17 1' BSP - CAP
870015094	MULTI COMPLETE GR6 2A-2C-1D	2 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP - 1 FAP17 1' BSP - CAP
870015098	MULTI COMPLETE GR6 2A-2D	2 FAP9D 3/8 BSP - 2 FAP17 1' BSP - CAP
870015198	MULTI FIX GR6 2A-2D	2 FAP9D 3/8 BSP - 2 FAP17 1' BSP
870015298	MULTI MOBILE GR6 2A-2D	2 FAP9D 3/8 BSP - 2 FAP17 1' BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000300	MULTI FIX EMPTY GR6 2A-2C-2D-2EC
806000301	MULTI MOBILE EMPTY GR6 2A-2C-2D-2EC
815606258	CAP FIX MULTICOUPLING GR 175x117
815606259	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815700999	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

5,7 Kg and 2,6 Kg



2,2 Kg



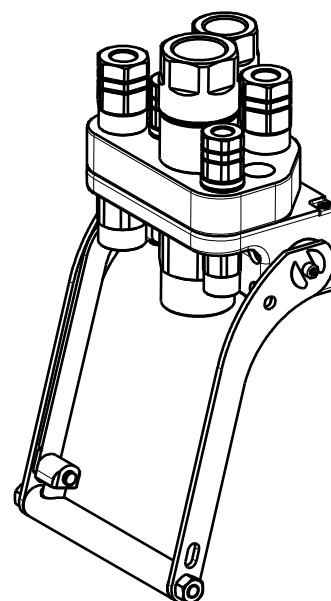
GR6 2A-2B-1D-1E-2EC

Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"		1/2"	5/8"	3/4"	1"	1-1/2"
GRU6ZN	23000 N	2	D	2		1	1	

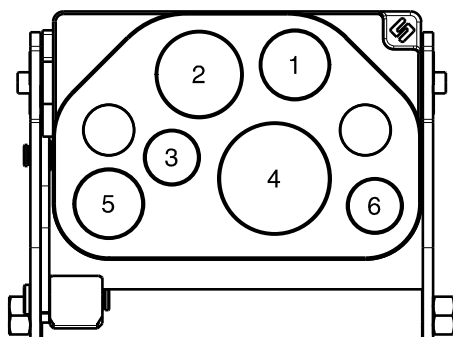


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	-
2	FAP17ZN	-
3	FAP9DZN	YES
4	FAP21ZN	-
5	FAP13ZN	-
6	FAP9DZN	YES

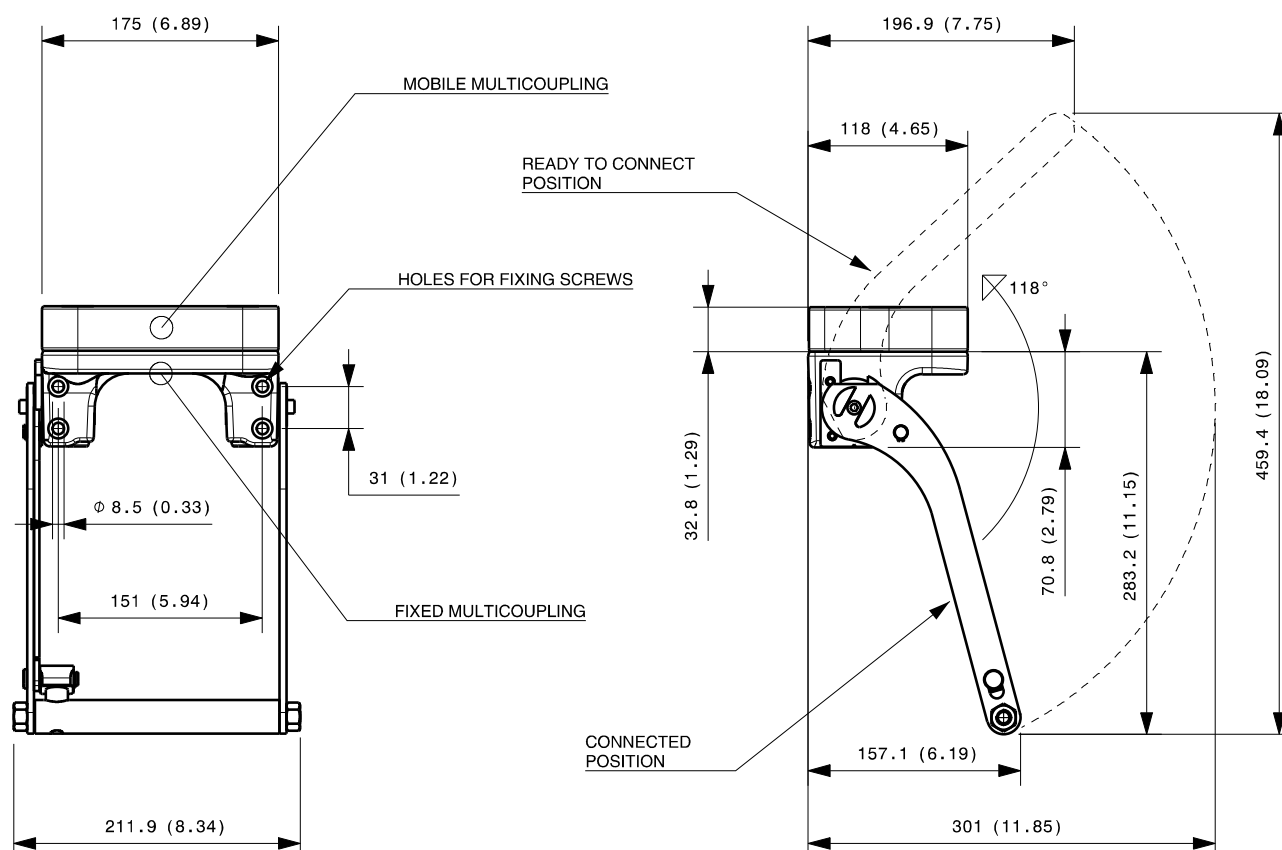
MultiCoupling (couplings included)		
Code	Name	Description
870015070	MULTI COMPLETE GR6 1A-2B-1D-1E	1 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 1 FAP17 1' BSP - 1 FAP21 1-1/4 BSP - CAP
870015093	MULTI COMPLETE GR6 1A-2B-1D	1 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 1 FAP17 3/4 BSP - CAP
870015170	MULTI FIX GR6 1A-2B-1D-1E	1 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 1 FAP17 1' BSP - 1 FAP21 1-1/4 BSP
870015270	MULTI MOBILE GR6 1A-2B-1D-1E	1 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 1 FAP17 1' BSP - 1 FAP21 1-1/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000306	MULTI FIX EMPTY GR6 2A-2B-1D-1E-2EC
806000307	MULTI MOBILE EMPTY GR6 2A-2B-1D-1E-2EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

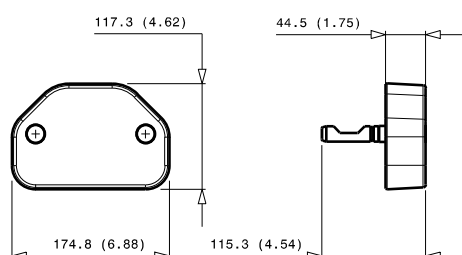
Fixed and mobile multicoupling

5,4 Kg and 2,6 Kg



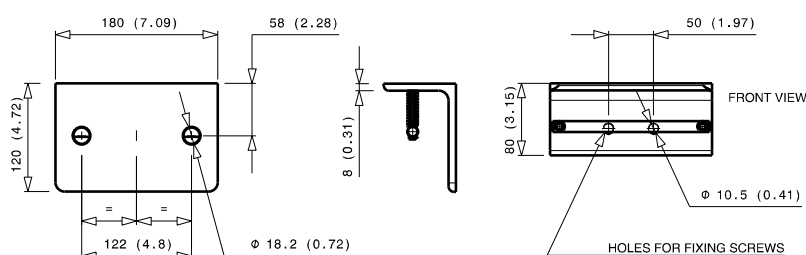
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

2,4 Kg

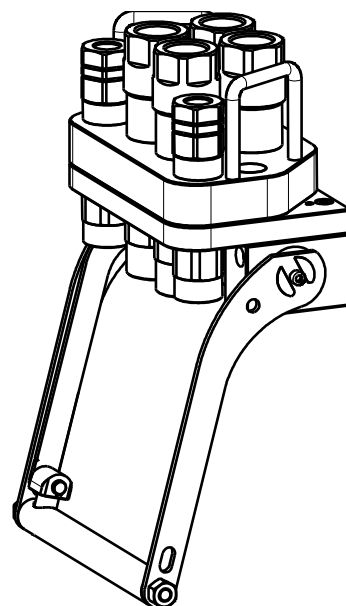


GR6 2B-4D-2EC

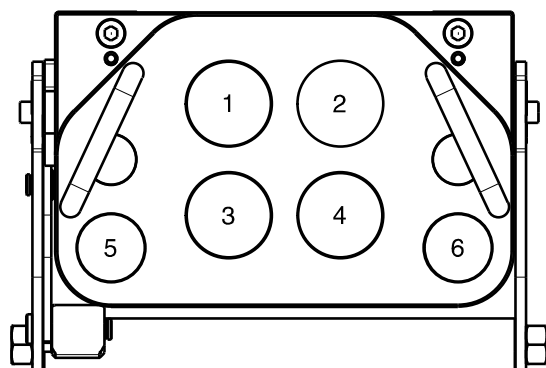
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GR6LLZN	23000 N		2		4		



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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP17ZN	-
2	FAP17ZN	-
3	FAP17ZN	-
4	FAP17ZN	-
5	FAP13ZN	YES
6	FAP13ZN	YES

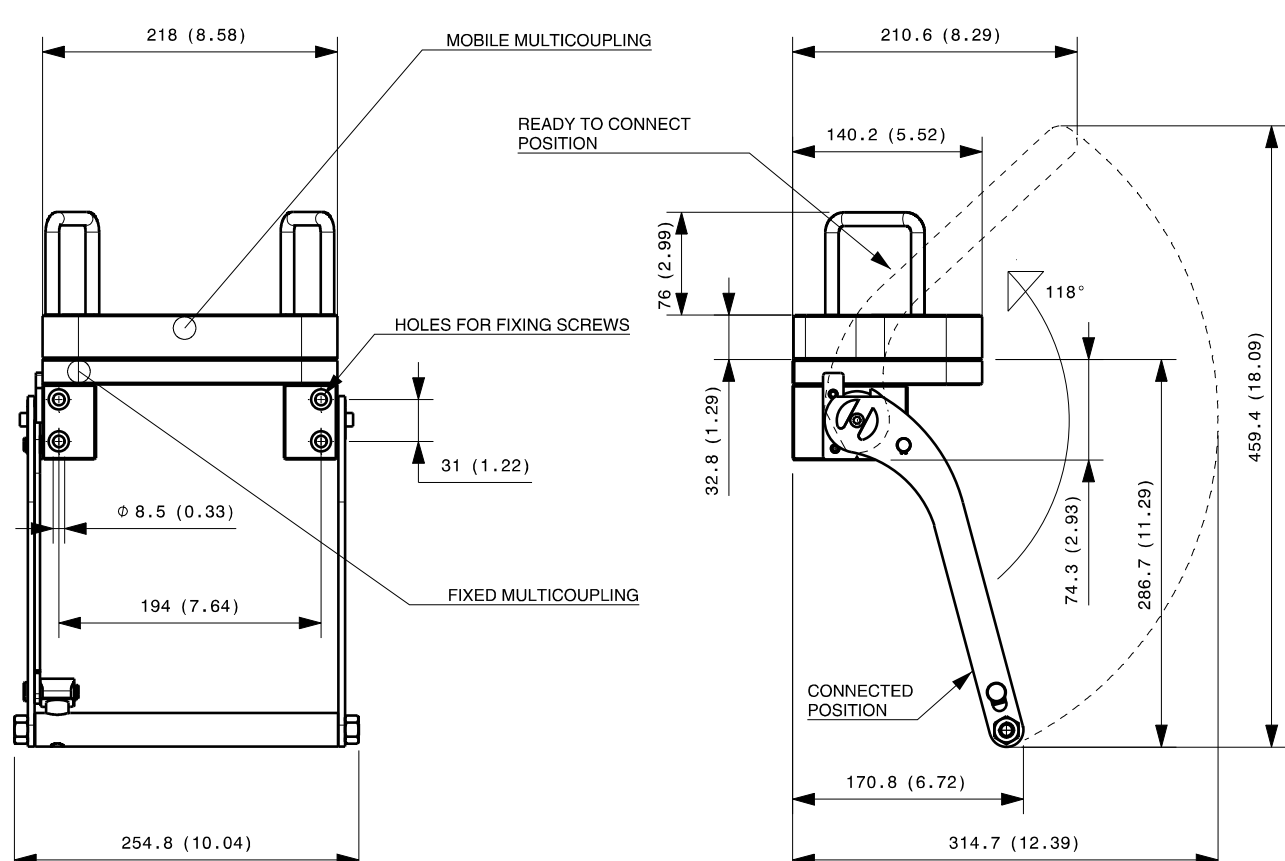
MultiCoupling (couplings included)		
Code	Name	Description
870015067	MULTI COMPLETE GR6 1B-4D	1 FAQ13 1/2 BSP - 4 FAP17 1' BSP - CAP
870016004	MULTI COMPLETE GR6 1B-4D	1 FAP13 1/2 BSP - 4 FAP17 1' BSP - CAP
870016105	MULTI FIX GR6 2D	2 FAP17 1' BSP
870016205	MULTI MOBILE GR6 2D	2 FAP17 1' BSP

MultiCoupling spare parts (couplings not included)		
Code	Name	
806000338	MULTI FIX EMPTY GR6 2B-4D-2EC	
806000339	MULTI MOBILE EMPTY GR6 2B-4D-2EC	
815606262	CAP FIX MULTICOUPLING GR 218x140	
815606263	PARKING STATION MOBILE MULTICOUPLING GR 218x150	
815701056	KIT NR.1 COMPLETE LEVER GROUP GR	

Custom configurations
available upon request

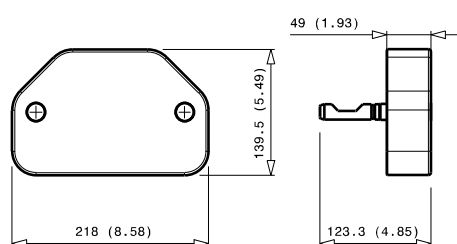
Fixed and mobile multicoupling

7,7 Kg and 5,0 Kg



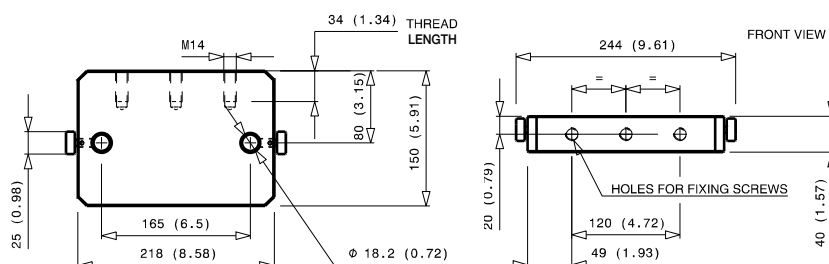
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,7 Kg



Parking station for mobile multicoupling

3,4 Kg



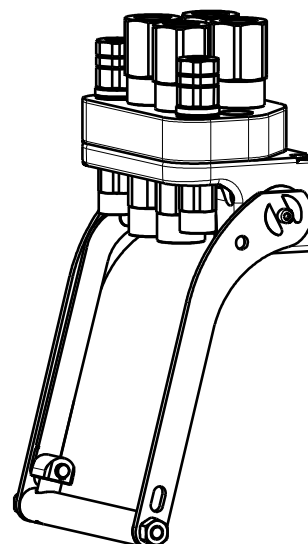
GR6 2A-4C-2EC

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GRM6ALZN	23000 N	2	D	4			

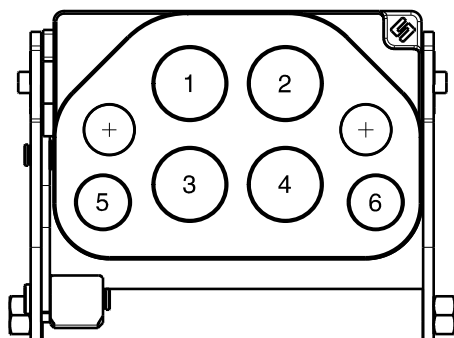


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CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP15ZN	-
3	FAP15ZN	-
4	FAP15ZN	-
5	FAP9DZN	YES
6	FAP9DZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870016019	MULTI COMPLETE GR6 2A-4C	2 FAP9D 3/8 BSP - 4 FAP15 3/4 BSP - CAP
870016119	MULTI FIX GR6 2A-4C	2 FAP9D 3/8 BSP - 4 FAP15 3/4 BSP
870016219	MULTI MOBILE GR6 2A-4C	2 FAP9D 3/8 BSP - 4 FAP15 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000320	MULTI FIX EMPTY GR6 2A-4C-2EC
806000321	MULTI MOBILE EMPTY GR6 2A-4C-2EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

5,6 Kg and 2,9 Kg



2,4 Kg

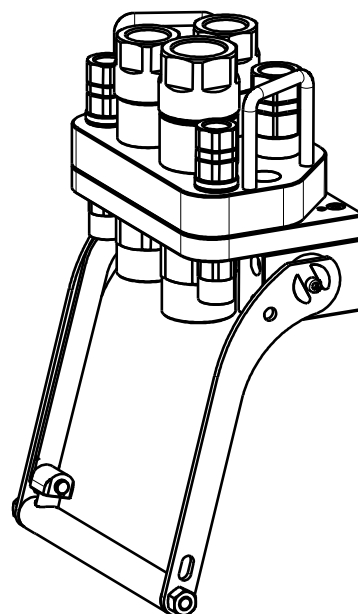


GR6 2A-1B-2D-1E-3EC

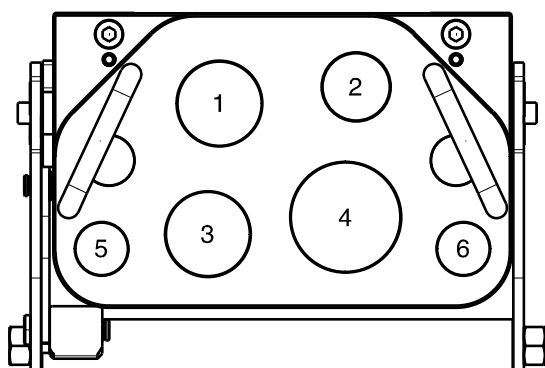
Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"		1/2"	5/8"	3/4"	1"	1-1/2"
GR6AF	23000 N	2	D	1		2	1	



DRAWING



CONFIGURATIONS



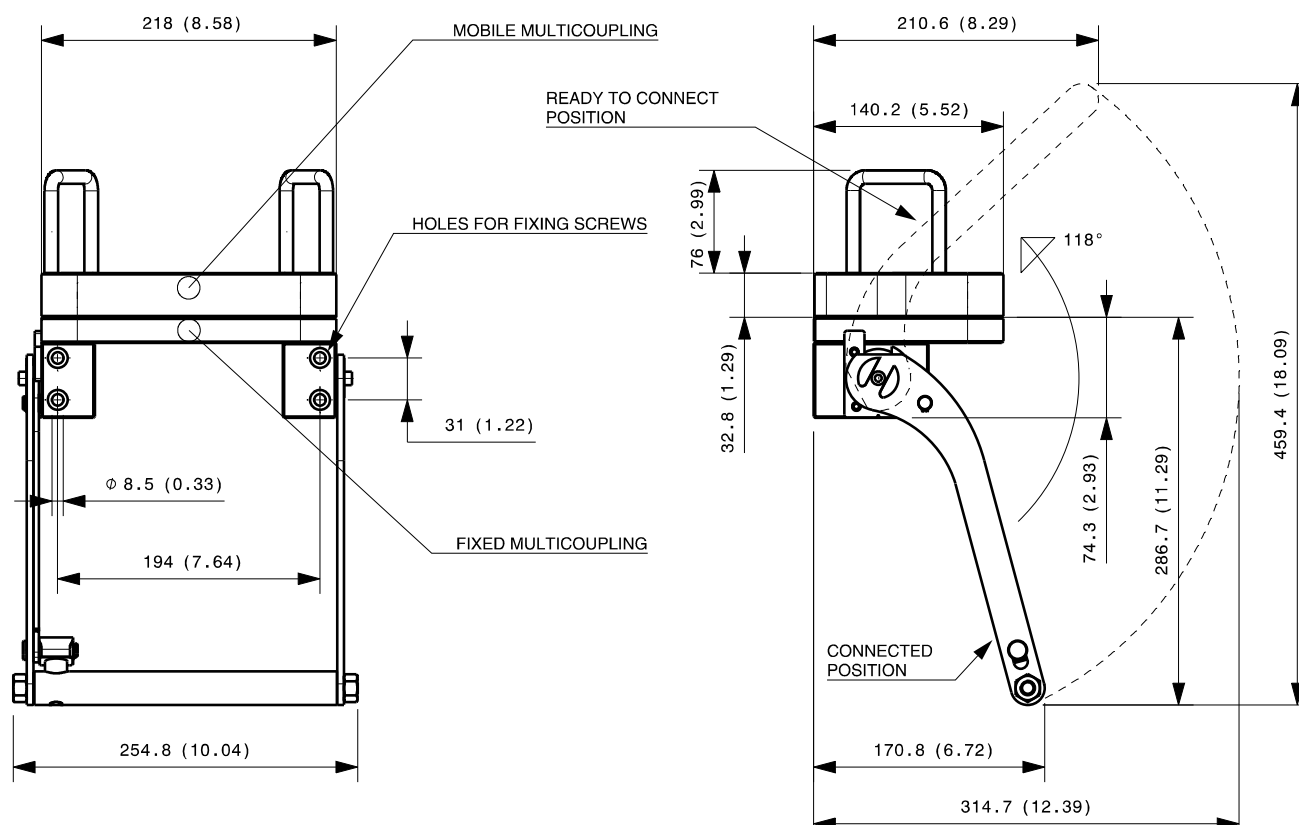
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP17ZN	-
2	FAP13ZN	YES
3	FAP17ZN	-
4	FAP21ZN	-
5	FAP9DZN	YES
6	FAP9DZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870015076	MULTI COMPLETE GR6 1A-2D-1E	1 FAP9D 1/2 BSP - 2 FAP17 1' BSP - 1 FAP21 1-1/4 BSP - CAP
870015176	MULTI FIX GR6 1A-2D-1E	1 FAP9D 1/2 BSP - 2 FAP17 1' BSP - 1 FAP21 1-1/4 BSP
870015276	MULTI MOBILE GR6 1A-2D-1E	1 FAP9D 1/2 BSP - 2 FAP17 1' BSP - 1 FAP21 1-1/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000388	MULTI FIX EMPTY GR6 2A-1B-2D-1E-3EC
806000389	MULTI MOBILE EMPTY GR6 2A-1B-2D-1E -3EC
815606262	CAP FIX MULTICOUPLING GR 218x140
815606263	PARKING STATION MOBILE MULTICOUPLING GR 218x150
815701056	KIT NR.1 COMPLETE LEVER GROUP GR

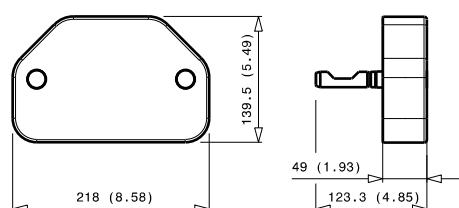
Fixed and mobile multicoupling

7,5 Kg and 4,3 Kg

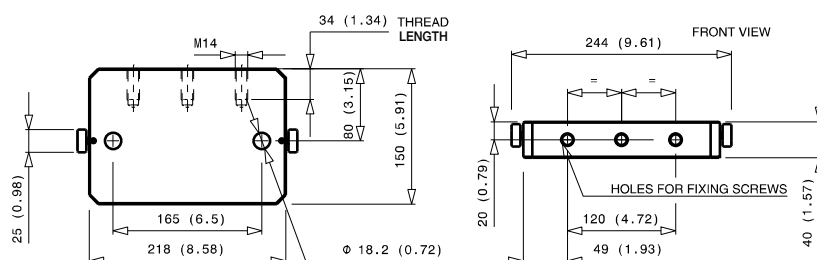


Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,7 Kg



Parking station for mobile multicoupling 3,4 Kg



GR7 4A-3B-4EC

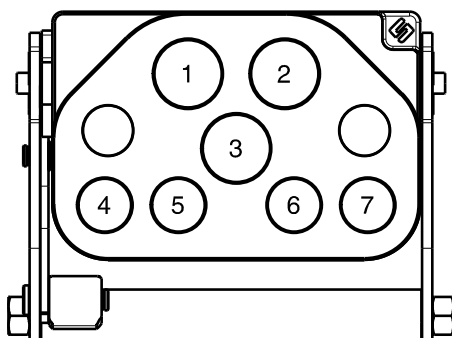
Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	D	1/2"	5/8"	3/4"	1"	1-1/2"
GR7ABZN	23000 N	4	D	3				



DRAWING



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Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	-
2	FAP13ZN	-
3	FAP13ZN	-
4	FAP9DZN	YES
5	FAP9DZN	YES
6	FAP9DZN	YES
7	FAP9DZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870015085	MULTI COMPLETE GR7 2B-3EC	2 FAP13 1/2 BSP - 3EC6 - CAP
870015185	MULTI FIX GR7 2B-3EC	2 FAP13 1/2 BSP - 3EC6
870015171	MULTI FIX GR7 3A-3B V01*	1 FAQ9D 3/8 BSP - 2 FAP9D 3/8 BSP - 3 FAP13 1/2 BSP
870015285	MULTI MOBILE GR7 2B-3EC	2 FAP13 1/2 BSP - 3EC6
870015271	MULTI MOBILE GR7 3A-3B V01*	1 FAQ9D 3/8 BSP - 2 FAP9D 3/8 BSP - 3 FAP13 1/2 BSP

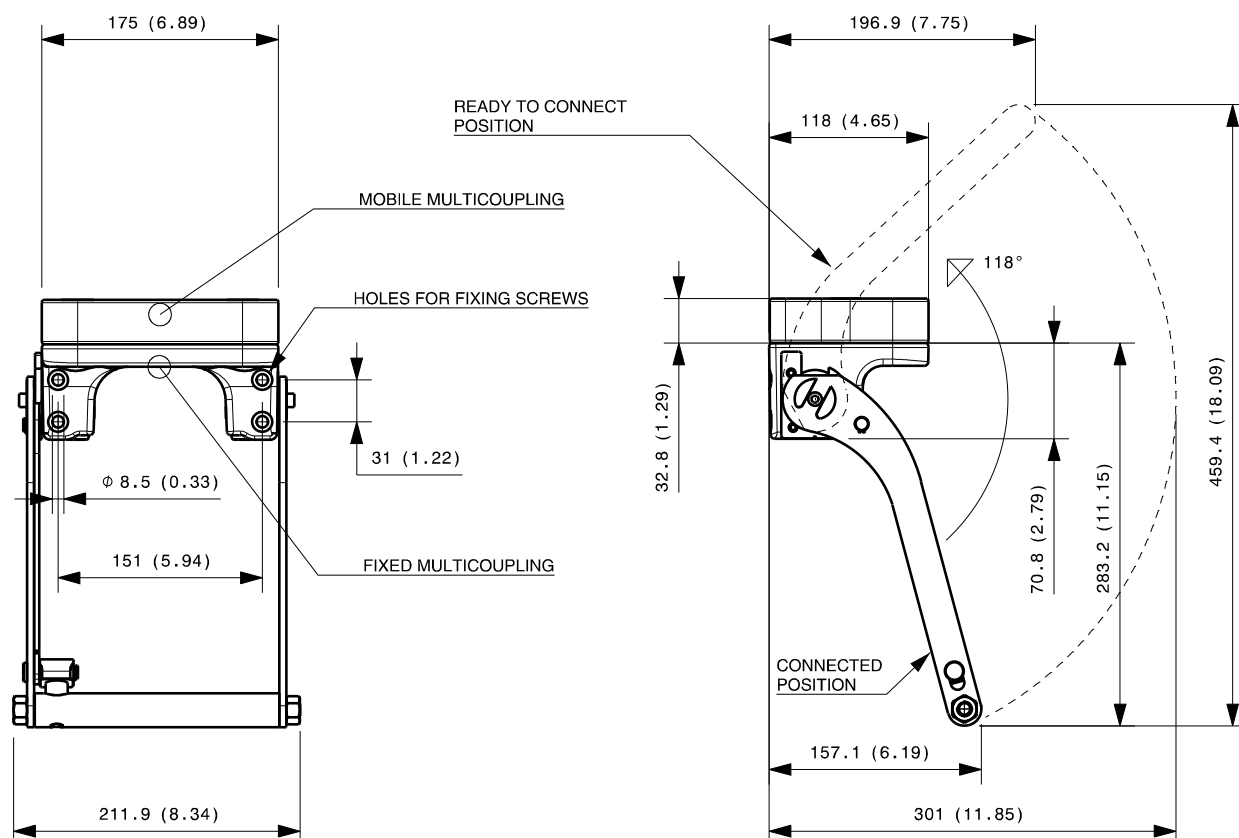
* V01 = lever lenght

MultiCoupling spare parts (couplings not included)	
Code	Name
806000328	MULTI FIX EMPTY GR7 4A-3B-4EC
806000380	MULTI FIX EMPTY GR7 4A-3B-4EC V01*
806000329	MULTI MOBILE EMPTY GR7 4A-3B-4EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR
UPON REQUEST	SPECIFIC KIT FOR V01 MODEL

* V01 = lever lenght

Fixed and mobile multicoupling

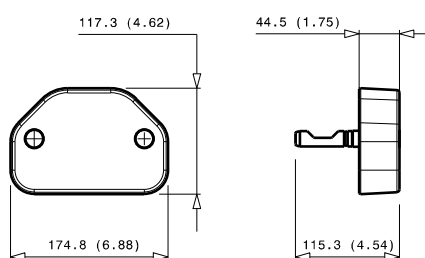
5,7 Kg and 2,9 Kg



Available also model with shorter lever,
in case of need ask the drawing to info@stucchi.it

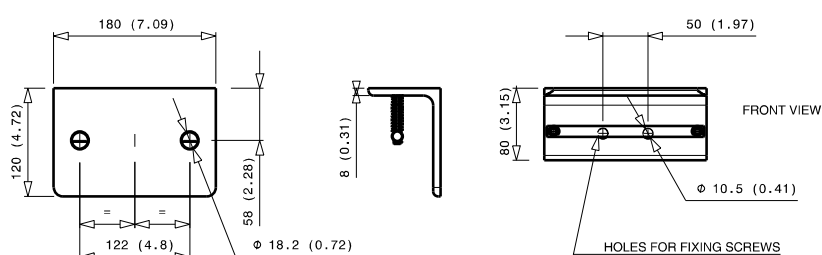
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

2,4 Kg

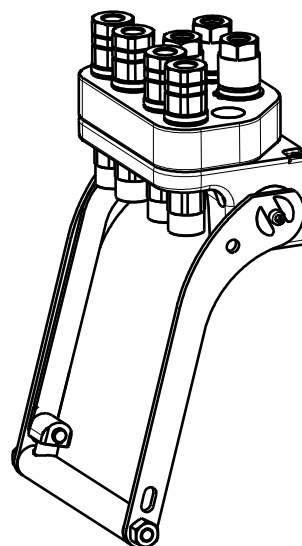


GRHP7 7A-4EC

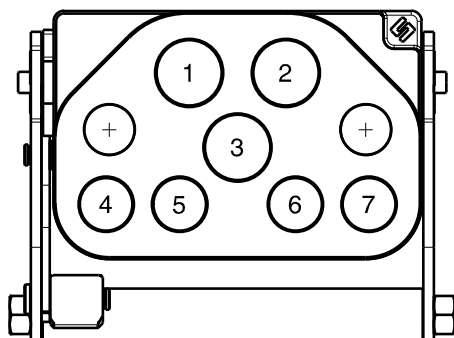
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GR7ACZN	30000 N	4 D					
		3 HP					



DRAWING



CONFIGURATIONS



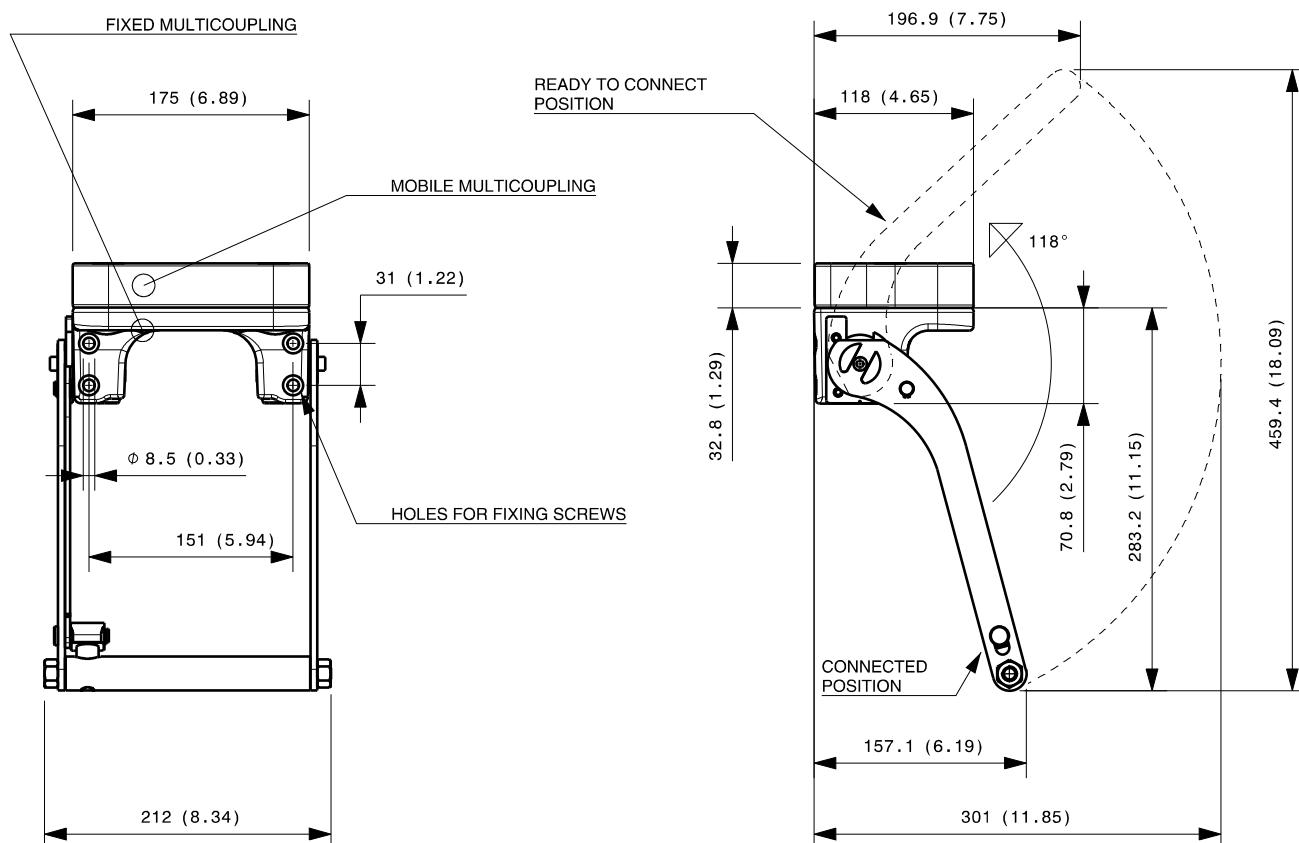
Possible configurations			
Pos	Coupling size	Predisposition for electrical connector	Pression type
1	FAP9-HP	-	High
2	FAP9-HP	-	High
3	FAP9-HP	-	High
4	FAP9DZN	YES	Medium
5	FAP9DZN	YES	Medium
6	FAP9DZN	YES	Medium
7	FAP9DZN	YES	Medium

MultiCoupling (couplings included)		
Code	Name	Description
870016020	MULTI COMPLETE GRHP7 7A	4 FAP9D 3/8 BSP - 3 FAP9HP 3/8 NPT - CAP
870016120	MULTI FIX GRHP7 7A	4 FAP9D 3/8 BSP - 3 FAP9HP 3/8 NPT
870016220	MULTI MOBILE GRHP7 7A	4 FAP9D 3/8 BSP - 3 FAP9HP 3/8 NPT

MultiCoupling spare parts (couplings not included)	
Code	Name
806000330	MULTI FIX EMPTY GRHP7 7A-4EC
806000331	MULTI MOBILE EMPTY GRHP7 7A-4EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

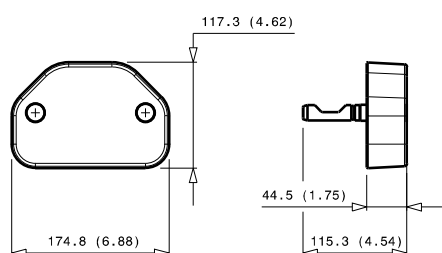
Fixed and mobile multicoupling

5,6 Kg and 2,9 Kg



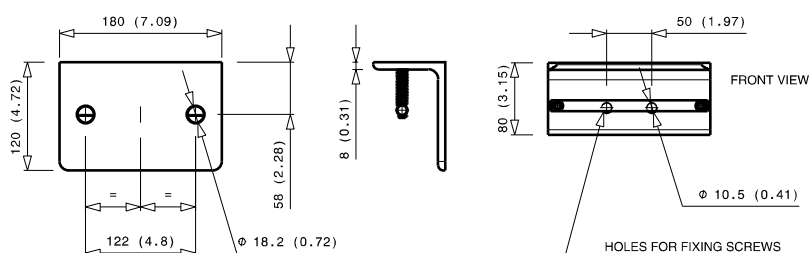
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

2,3 Kg



GR7 4A-1B-2D-4EC

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GR7AAZN	23000 N	4	1		2		

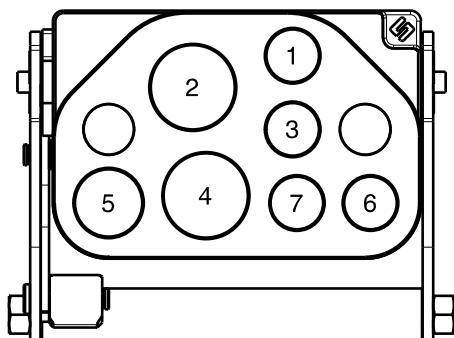


Stucchi®

DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9DZN	YES
2	FAP17ZN	-
3	FAP9DZN	YES
4	FAP17ZN	-
5	FAP13ZN	-
6	FAP9DZN	YES
7	FAP9DZN	YES

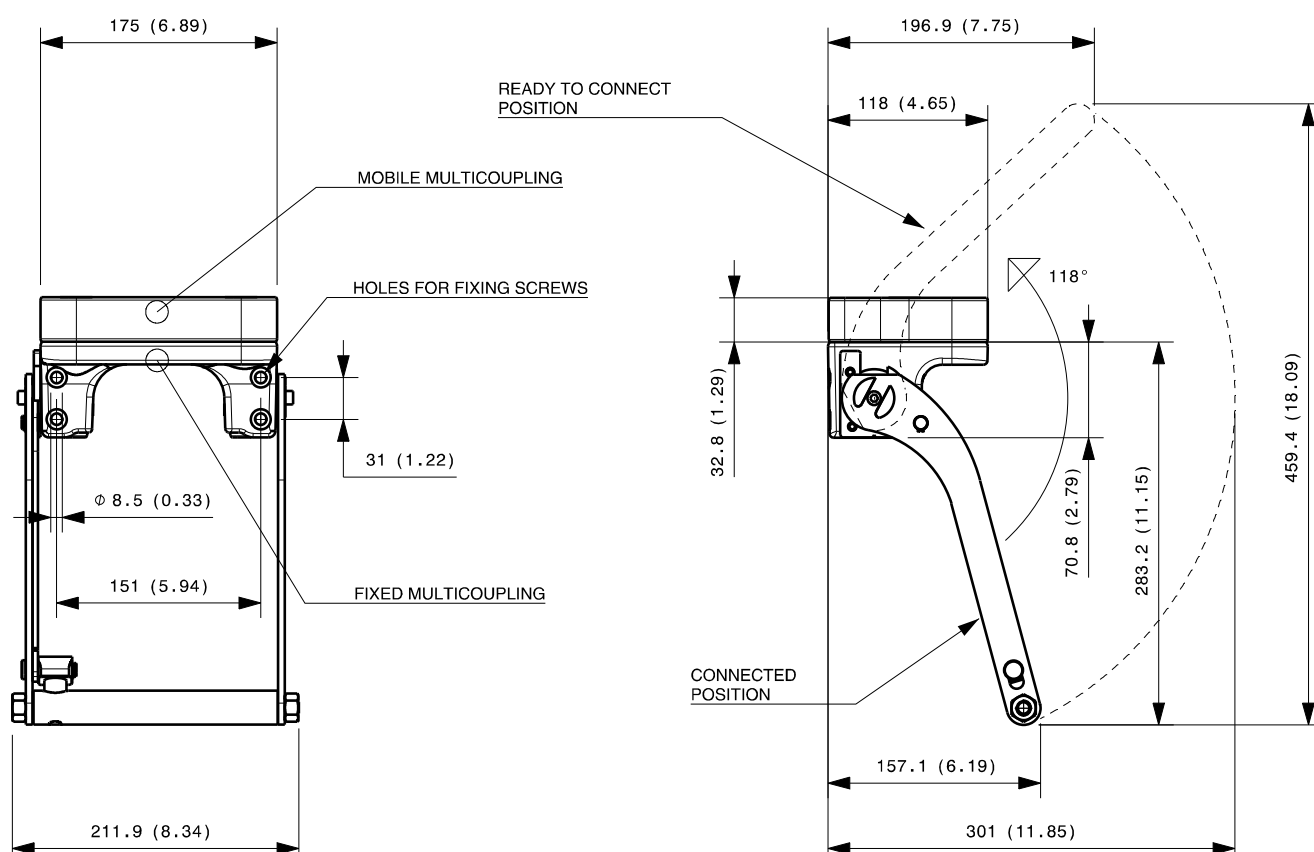
MultiCoupling (couplings included)		
Code	Name	Description
870016006	MULTI COMPLETE GR7 3A-1B-2D-1EC	1 FAP9D 1/4 BSP - 2 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 2 FAP17 1' BSP - 1EC7 - CAP
870016106	MULTI FIX GR7 3A-1B-2D-1EC	1 FAP9D 1/4 BSP - 2 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 2 FAP17 1' BSP - 1EC7
870016206	MULTI MOBILE GR7 3A-1B-2D-1EC	1 FAP9D 1/4 BSP - 2 FAP9D 3/8 BSP - 1FAP13 1/2 BSP - 2 FAP17 1' BSP - 1EC7

MultiCoupling spare parts (couplings not included)	
Code	Name
806000324	MULTI FIX EMPTY GR7 4A-1B-2D-4EC
806000325	MULTI MOBILE EMPTY GR7 4A-1B-2D-4EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

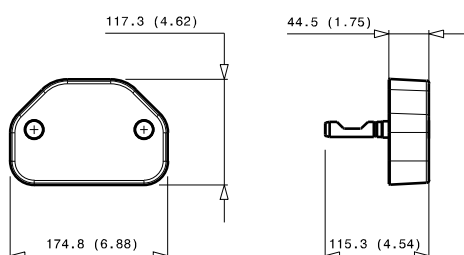
Fixed and mobile multicoupling

5,4 Kg and 2,6 Kg



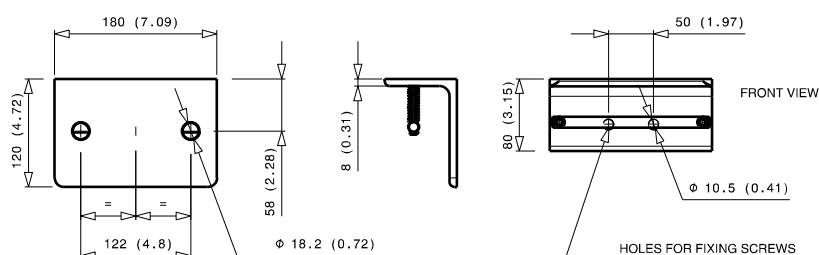
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

2,4 Kg



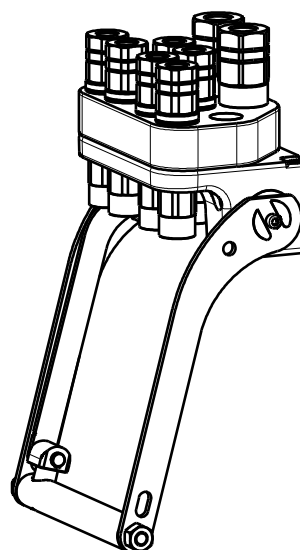
GR8 6A-2B-6EC

Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	D	1/2"	5/8"	3/4"	1"	1-1/2"
GR8ABZN	30000 N	6	D	2				

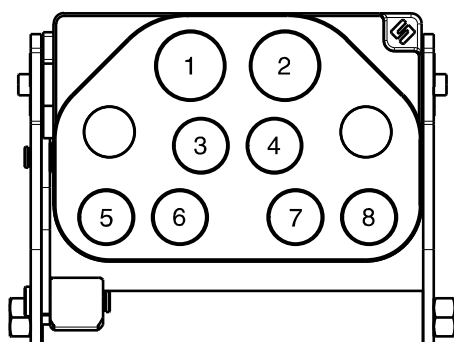


Stucchi®

DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	-
2	FAP13ZN	-
3	FAP9DZN	YES
4	FAP9DZN	YES
5	FAP9DZN	YES
6	FAP9DZN	YES
7	FAP9DZN	YES
8	FAP9DZN	YES

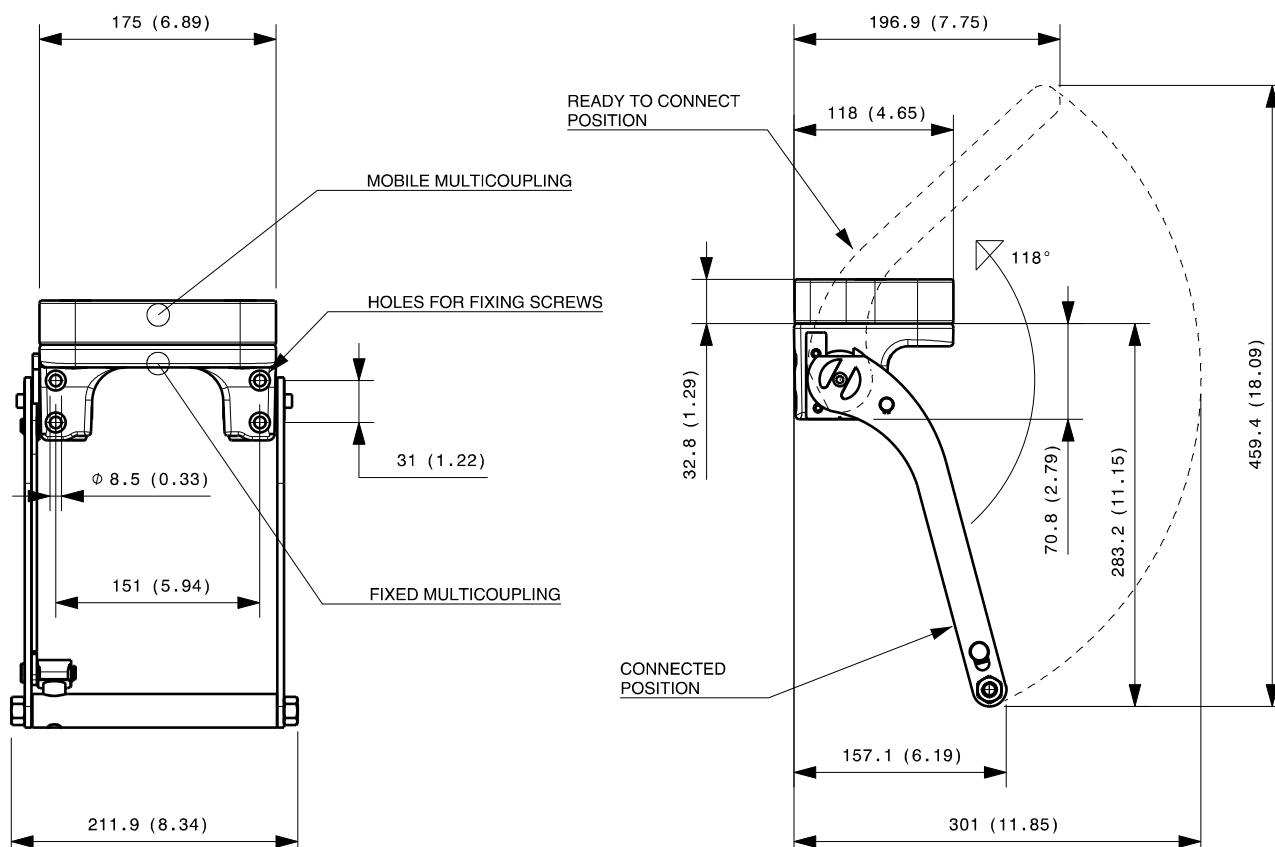
MultiCoupling (couplings included)		
Code	Name	Description
870015087	MULTI COMPLETE GR8 6A-1B-1D	6 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP13 3/4 BSP - CAP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000334	MULTI FIX EMPTY GR8 6A-2B-6EC
806000335	MULTI MOBILE EMPTY GR8 6A-2B-6EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

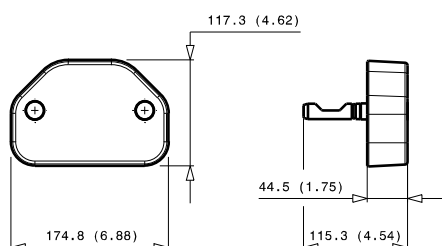
Fixed and mobile multicoupling

5,7 Kg and 2,8 Kg

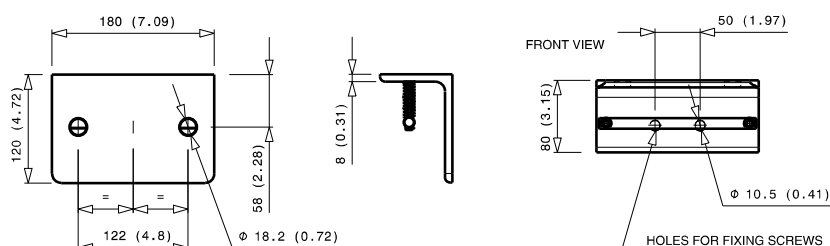


Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,1 Kg



Parking station for mobile multicoupling 2,4 Kg

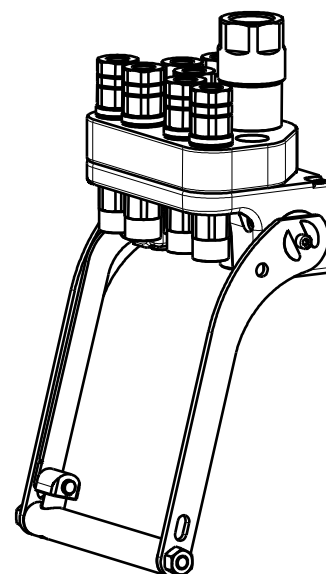


GR8 7A-1D-7EC

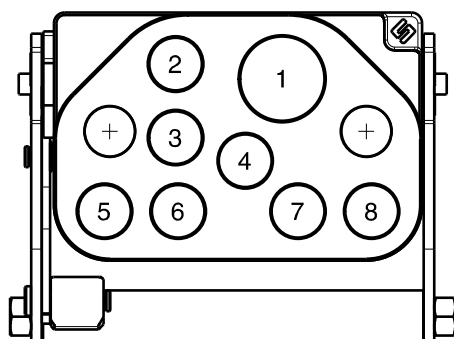
Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"		1/2"	5/8"	3/4"	1"	1-1/2"
GR8AAZN	23000 N	7	D			1		



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP17ZN	-
2	FAP9DZN	YES
3	FAP9DZN	YES
4	FAP9DZN	YES
5	FAP9DZN	YES
6	FAP9DZN	YES
7	FAP9DZN	YES
8	FAP9DZN	YES

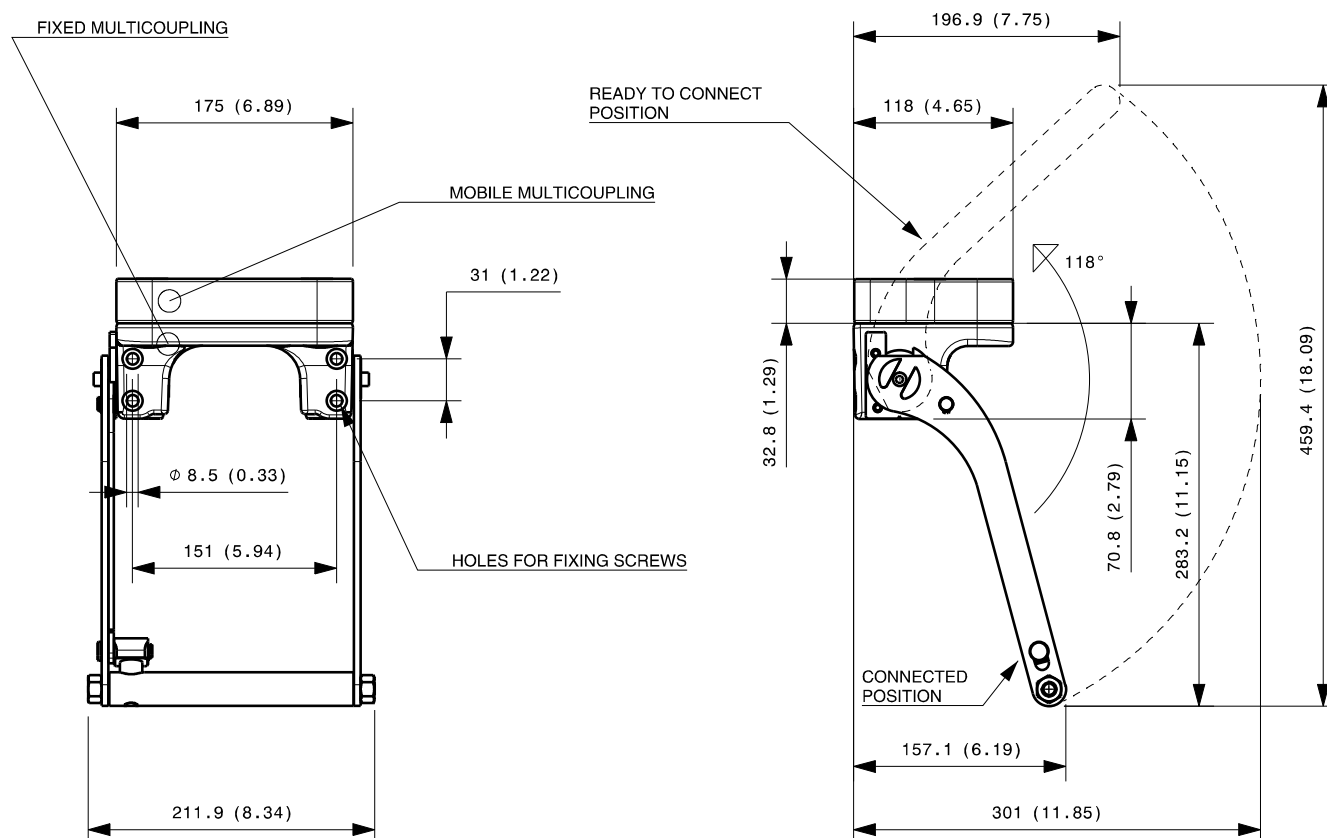
MultiCoupling (couplings included)		
Code	Name	Description
870016021	MULTI COMPLETE GR8 7A-1D	7 FAP9D 3/8 BSP - 1 FAP17 1' BSP - CAP
870016121	MULTI FIX GR8 7A-1D	7 FAP9D 3/8 BSP - 1 FAP17 1' BSP
870016221	MULTI MOBILE GR8 7A-1D	7 FAP9D 3/8 BSP - 1 FAP17 1' BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000332	MULTI FIX EMPTY GR8 7A-1D-7EC
806000333	MULTI MOBILE EMPTY GR8 7A-1D-7EC
815606260	CAP FIX MULTICOUPLING GR 175x117
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815701055	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

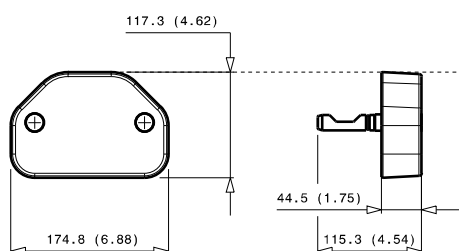
Fixed and mobile multicoupling

5,7 Kg and 2,8 Kg



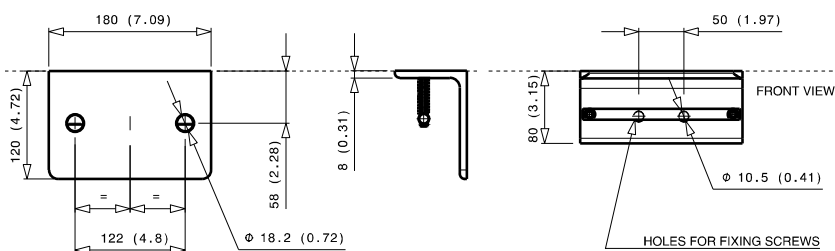
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,1 Kg



Parking station for mobile multicoupling

2,3 Kg

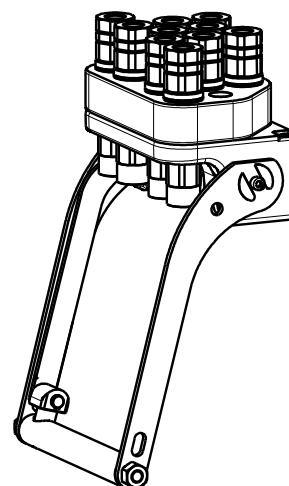


GR10 10A-2EC

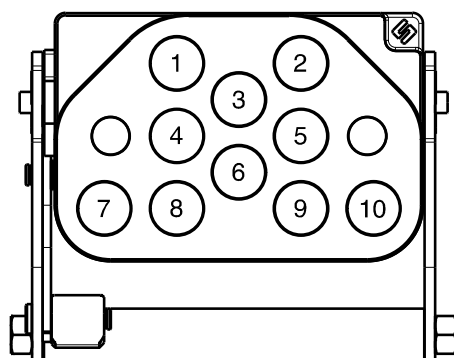
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GR10-9ZN	23000 N	10	D				



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9DZN	-
2	FAP9DZN	-
3	FAP9DZN	-
4	FAP9DZN	-
5	FAP9DZN	-
6	FAP9DZN	-
7	FAP9DZN	YES
8	FAP9DZN	-
9	FAP9DZN	-
10	FAP9DZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870004022	MULTI COMPLETE GR10 8A	8 FAP9D 3/8 BSP - CAP
870004023	MULTI COMPLETE GR10 10A	10 FAP9D 1/2 BSP - CAP
870004024	MULTI COMPLETE GR10 10A	10 FAP9D 3/8 BSP - CAP
870004026	MULTI COMPLETE GR10 10A	10 FAP9D 1/4 BSP - CAP
870004028	MULTI COMPLETE GR10 8A	8 FAP9D 1/2 BSP - CAP
870004029	MULTI COMPLETE GR10 10A	8 FAP9D 3/8 BSP - 2 FAP9D 1/2 BSP - CAP
870004032	MULTI COMPLETE GR10 9A	9 FAP9D 1/2 BSP - CAP
870004033	MULTI COMPLETE GR10 9A	9 FAP9D 3/8 BSP - CAP
870004034	MULTI COMPLETE GR10 10A	10 FAP9D 3/8 SAE - CAP
870004025	MULTI COMPLETE GR10 8A V03**	8 FAP9DSD 1/2 BSP - CAP
870004123	MULTI FIX GR10 10A	10 FAP9D 1/2 BSP
870004125	MULTI FIX GR10 8A V03**	8 FAP9DSD 1/2 BSP
870004223	MULTI MOBILE GR10 10A	10 FAP9D 1/2 BSP
870004224	MULTI MOBILE GR10 10A	10 FAP9D 3/8 BSP
870004225	MULTI MOBILE GR10 8A V03**	8 FAP9DSD 1/2 BSP

** V03 = seal on plate

MultiCoupling spare parts (couplings not included)	
Code	Name
806000302	MULTI FIX EMPTY GR10 10A-2EC
806000303	MULTI MOBILE EMPTY GR10 10A-2EC
806000304	MULTI FIX EMPTY GR10 10A-2EC V01*
806000372	MULTI FIX EMPTY GR10 10A-2EC V03**
806000373	MULTI MOBILE EMPTY GR10 10A-2EC V03**

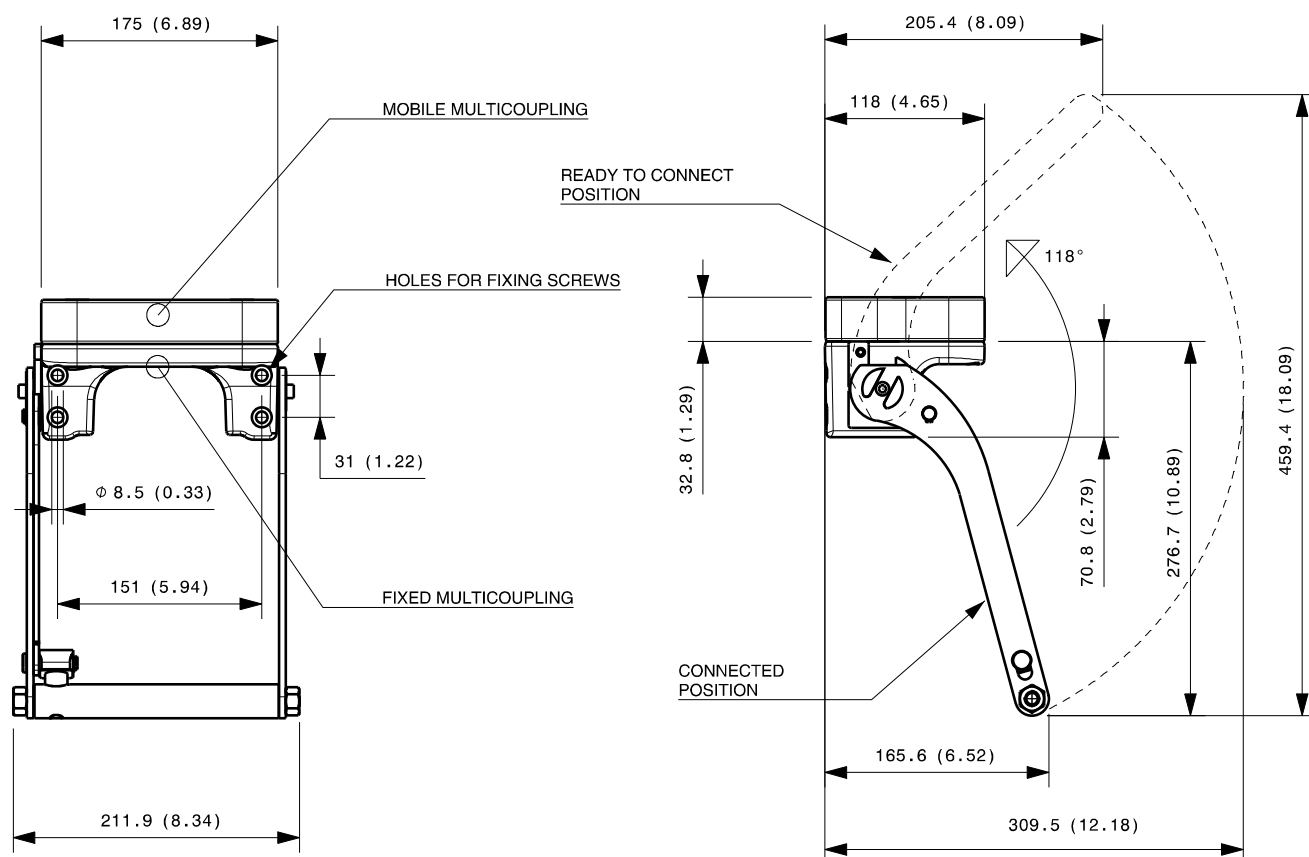
* V01 = lever lenght | ** V03 = seal on plate

MultiCoupling spare parts (couplings not included)	
Code	Name
815606258	CAP FIX MULTICOUPLING GR 175x117
815606259	PARKING STATION MOBILE MULTICOUPLING GR 180x120
815700999	KIT NR.1 COMPLETE LEVER GROUP GR
UPON REQUEST	SPECIFIC KIT FOR V01 MODEL
UPON REQUEST	SPECIFIC KIT FOR V03 MODEL

Custom configurations
available upon request

Fixed and mobile multicoupling

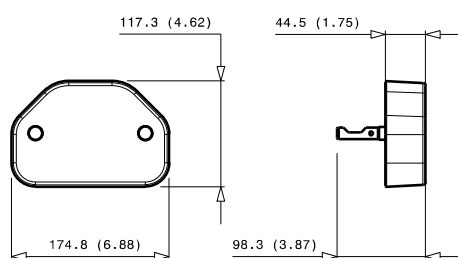
5,7 Kg and 2,7 Kg



Available also model with shorter lever or seal on fix multicoupling, in case of need ask the drawing to info@stucchi.it

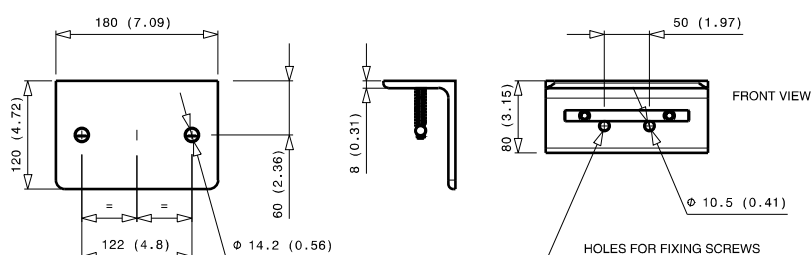
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,1 Kg



Parking station for mobile multicoupling

2,2 Kg



GR10 10B-2EC

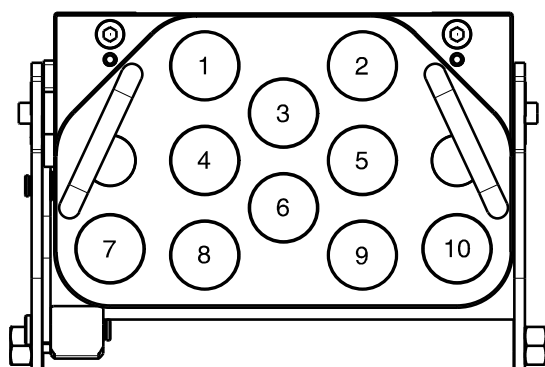
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	FAP30 (G)
Body size		3/8"	1/2"	5/8"	3/4"	1"	1-1/2"
GR10-13ZN	23000 N		10				



DRAWING



CONFIGURATIONS



Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	-
2	FAP13ZN	-
3	FAP13ZN	-
4	FAP13ZN	-
5	FAP13ZN	-
6	FAP13ZN	-
7	FAP13ZN	YES
8	FAP13ZN	-
9	FAP13ZN	-
10	FAP13ZN	YES

MultiCoupling (couplings included)		
Code	Name	Description
870010008	MULTI COMPLETE GR10 10B	10 FAP13 3/4 BSP - CAP
870010009	MULTI COMPLETE GR10 10B	10 FAP13 1/2 BSP - CAP
870010010	MULTI COMPLETE GR10 10B	10 FAP13 1/2 NPT - CAP
870010109	MULTI FIX GR10 10B	10 FAP13 1/2 BSP
870010209	MULTI MOBILE GR10 10B	10 FAP13 1/2 BSP

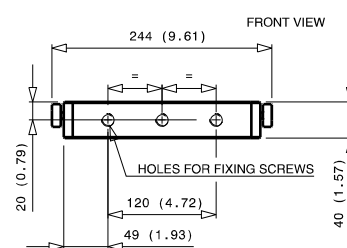
MultiCoupling spare parts (couplings not included)	
Code	Name
806000336	MULTI FIX EMPTY GR10 10B-2EC
806000337	MULTI MOBILE EMPTY GR10 10B-2EC
815606262	CAP FIX MULTICOUPLING GR 218x140
815606263	PARKING STATION MOBILE MULTICOUPLING GR 218x150
815701056	KIT NR.1 COMPLETE LEVER GROUP GR

Custom configurations
available upon request

7,5 Kg and 4,3 Kg



3,4 Kg





FAP-ZN SERIES

INTERCHANGE > Stucchi profile (only for Stucchi multicouplings)



Stucchi®



TECHNICAL FEATURES AND OPTIONS



Interchange

Stucchi profile (only for Stucchi multicouplings)



Sealing description

Nitrile NBR



Connection system

By multicoupling



Available sizes

from 3/8" to 1"



Material

High strength carbon steel



Available threads

BSP - NPT - SAE



Operating pressure

Up to 350 bar



Locking mechanism

PIN/CAM



Flow rate

Up to 378 L/Min



Temperature (°C)

-20° / +100°



Valving style

Flat face



Connection under pressure

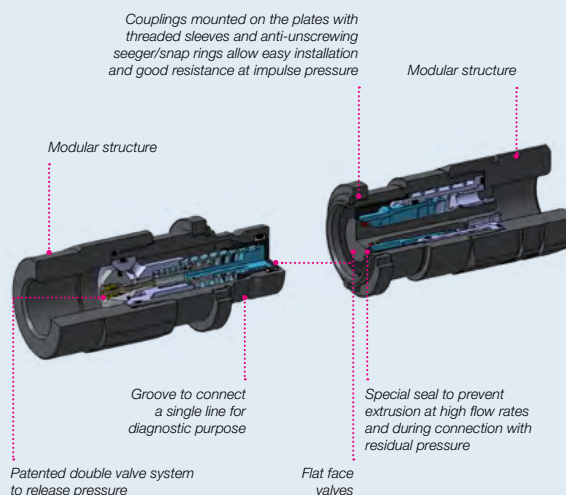
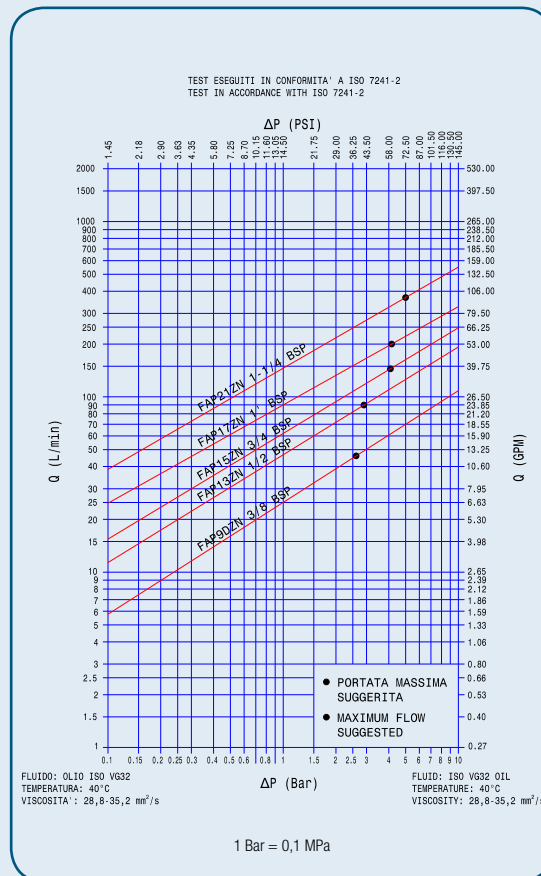
Connection: Both sides.
Disconnection: allowed.

BENEFITS

- Flat face is easy to clean, helping to reduce the inclusion of contamination in the hydraulic circuit.
- Minimal fluid loss during connection/disconnection, reducing fluid loss to the environment.
- Minimal air inclusion during connection/disconnection, enhancing correct function of the circuit.
- Internal flow of valve design creates minimal pressure drop, maintaining circuit efficiency in the system.
- Patented internal pressure release valve system allows an easy connection with high internal residual pressure.
- The modular design allows for broad range of port configurations.
- Couplings without locking balls eliminate the "brinelling" effect.
- For diagnostic purpose of a single line (example: pressure or flow check for a limited period of time), male FAP-ZN may be connected with a Stucchi "A series" flat face female coupling.
- Compact slim design.
- Safe and simple to use.

HOW TO USE

- See instructions at page 22



MAIN APPLICATIONS



Agriculture



Oil & Gas



Industry



High Pressure



Climatic



Refrigeration



Earth Moving



Vehicles



Hydraulic Equipment



Chemical & Food Industry

PERFORMANCE

Size		Series/Size	Max. flow suggested		Hydrostatic pushing area coupled	Spillage*
Inch	mm (ISO)		l/min	GPM	Cm ²	ml
3/8	-	FAP9ZN (A/D)	46	12,19	1,226	0,012
1/2	-	FAP13ZN	90	23,85	1,893	0,020
5/8	-	FAP15ZN	148	39,22	2,404	0,110
3/4	-	FAP17ZN	200	53,00	3,298	0,032
1	-	FAP21ZN	378	100,17	4,335	0,035

Size	Series/Size	Max. operating pressure						Burst pressure					
		Coupled		Male		Female		Coupled		Male		Female	
Inch		MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/8	FAP9ZN (A/D)	35	5075	35	5075	35	5075	120	17400	120	17400	100	14500
1/2	FAP13ZN	33	4785	33	4785	33	4785	120	17400	120	17400	100	14500
5/8	FAP15ZN	33	4785	33	4785	33	4785	120	17400	120	17400	100	14500
3/4	FAP17ZN	33	4785	33	4785	33	4785	120	17400	120	17400	100	14500
1	FAP21ZN	30	4350	30	4350	30	4350	100	14500	100	14500	80	11600

Size	Series/Size	Max. residual pressure during connection						Max. residual pressure during disconnection	
		Male Female to drain		Female Male to drain		Male and Female			
Inch		MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/8	FAP9ZN (A/D)	25	3625	25	3625	25	3625	25	3625
1/2	FAP13ZN	25	3625	25	3625	20	2900	20	2900
5/8	FAP15ZN	25	3625	25	3625	20	2900	20	2900
3/4	FAP17ZN	25	3625	25	3625	15	2175	15	2175
1	FAP21ZN	25	3625	25	3625	15	2175	15	2175

*Spillage is an indicative value of the fluid loss per couple-uncouple cycle without residual pressure.

Temperature range:

Standard seals NBR, PUR, POM from -20 °C to +100 °C (from -4 °F to +212 °F). Please read carefully "instruction and warning" for proper selection of the products.

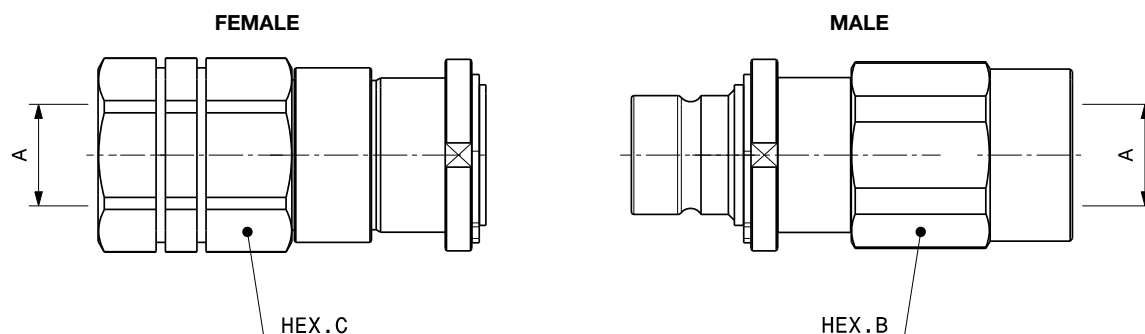
Tests:

The couplings coupled have been tested at max. operating pressure for 200.000 impulses, replacing the seeger ring every 50.000 impulses, in according with ISO 7241-2. The male uncoupled have been tested for 200.000 impulses. The female uncoupled have been tested for 100.000 impulses.

⚠ WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.
 Never connect or disconnect with dynamic pressure (e.g. pump on).
 Do not use the female coupling disconnected with high impulse pressure.
 Do not couple-uncouple with flow and/or pressure in the circuit.
 Do not couple-uncouple when the temperature inside of the circuit is higher than 80° C (176° F).
 Check the maximum allowable operating pressure of the port in use.
 It is important to limit contamination in the circuit to avoid compromising the function of the internal valves.
 Make sure that the medium used is compatible with seal and material as indicated for each series.
 In case of doubt please contact Stucchi Technical Support.
 FAP-ZN series is intended to be used only on Stucchi Multiconnections. Do not use the FAP-ZN coupling on a Custom-made multiconnection or other device different than a Stucchi Multiconnection.
 Do not disassemble, misuse, modify or damage the products.
 FAP-ZN series is intended to be used with standard hydraulic oils in fluid power application. Do not use the FAP-ZN coupling with different fluids (for example with inflammable, corrosive or dangerous fluids, gases ecc). Replace the seeger ring every 50.000 impulse cycles.
 For dimension "FAP9ZN 3/8": there are two versions of FAP9ZN: "A" and "D". The version is depending on the type of multiconnection in use. Please verify if the multiconnection you are using requires FAP9ZN "A" or "D" type consulting the single datasheet in case of need of spare parts. Contact Stucchi Service for support. Do not use the male FAP-ZN groove to connect the A-series female for a continuous service with pressure impulse (this feature is intended to be used only for diagnostic purpose so that for a short&limited time).
 When the couplings are disconnected, it is suggested to use the protection cap and parking station.
It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on Stucchi website (www.stucchi.it) before selecting or using Stucchi products.

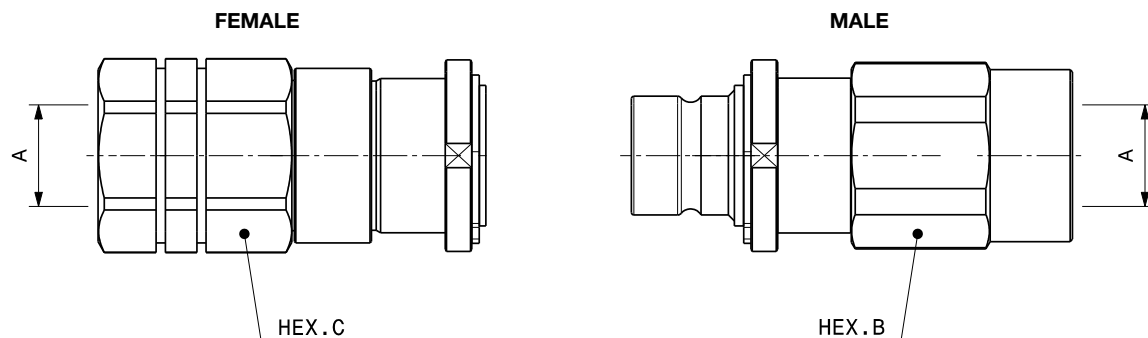
SPECIFICATIONS



Port description: FEMALE THREAD BSPP (ISO 1179-1)

Body size	Descriptive Code	Item Code	Port (A)	A or D type		Hex	
						mm	inch
3/8"	F FAP9DZN 1/4 BSP	Female 811400024	1/4"	D	C	30,0	1,18
	M FAP9DZN 1/4 BSP	Male 811400025			B	27,0	1,06
3/8"	F FAP9AZN 1/4 BSP	Female 811400026	1/4"	A	C	30,0	1,18
	M FAP9AZN 1/4 BSP	Male 811400027			B	27,0	1,06
3/8"	F FAP9AZN 3/8 BSP	Female 811400002	3/8"	A	C	30,0	1,18
	M FAP9AZN 3/8 BSP	Male 811400003			B	27,0	1,06
3/8"	F FAP9DZN 3/8 BSP	Female 811400004	3/8"	D	C	30,0	1,18
	M FAP9DZN 3/8 BSP	Male 811400005			B	27,0	1,06
3/8"	F FAP9AZN 1/2 BSP	Female 811400006	1/2"	A	C	30,0	1,18
	M FAP9AZN 1/2 BSP	Male 811400007			B	27,0	1,06
3/8"	F FAP9DZN 1/2 BSP	Female 811400008	1/2"	D	C	30,0	1,18
	M FAP9DZN 1/2 BSP	Male 811400009			B	27,0	1,06
1/2"	F FAP13ZN 1/2 BSP	Female 811400010	1/2"		C	36,0	1,42
	M FAP13ZN 1/2 BSP	Male 811400011			B	36,0	1,42
1/2"	F FAP13ZN 3/4 BSP	Female 811400012	3/4"		C	36,0	1,42
	M FAP13ZN 3/4 BSP	Male 811400013			B	36,0	1,42
5/8"	F FAP15ZN 3/4 BSP	Female 811400014	3/4"		C	41,0	1,61
	M FAP15ZN 3/4 BSP	Male 811400015			B	36,0	1,42
3/4"	F FAP17ZN 3/4 BSP	Female 811400020	3/4"		C	46,0	1,81
	M FAP17ZN 3/4 BSP	Male 811400021			B	46,0	1,81
3/4"	F FAP17ZN 1' BSP	Female 811400016	1"		C	46,0	1,81
	M FAP17ZN 1' BSP	Male 811400017			B	46,0	1,81
1"	F FAP21ZN 1' BSP	Female 811400022	1"		C	55,0	2,17
	M FAP21ZN 1' BSP	Male 811400023			B	55,0	2,17
1"	F FAP21ZN 1-1/4 BSP	Female 811400018	1-1/4"		C	55,0	2,17
	M FAP21ZN 1-1/4 BSP	Male 811400019			B	55,0	2,17

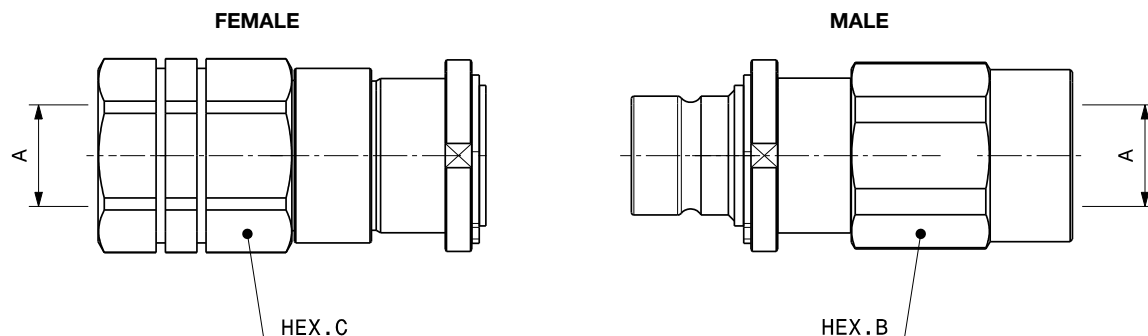
SPECIFICATIONS



Port description: FEMALE THREAD NPT (ANSI B1.20.1)

Body size	Descriptive Code	Item Code	Port (A)	A or D type		Hex	
						mm	inch
3/8"	F FAP9AZN 3/8 NPT	Female 811401002	3/8"	A	C	30,0	1,18
	M FAP9AZN 3/8 NPT	Male 811401003			B	27,0	1,06
3/8"	F FAP9DZN 3/8 NPT	Female 811401004	3/8"	D	C	30,0	1,18
	M FAP9DZN 3/8 NPT	Male 811401005			B	27,0	1,06
3/8"	F FAP9AZN 1/2 NPT	Female 811401006	1/2"	A	C	30,0	1,18
	M FAP9AZN 1/2 NPT	Male 811401007			B	27,0	1,06
3/8"	F FAP9DZN 1/2 NPT	Female 811401008	1/2"	D	C	30,0	1,18
	M FAP9DZN 1/2 NPT	Male 811401009			B	27,0	1,06
1/2"	F FAP13ZN 1/2 NPT	Female 811401010	1/2"		C	36,0	1,42
	M FAP13ZN 1/2 NPT	Male 811401011			B	36,0	1,42
1/2"	F FAP13ZN 3/4 NPT	Female 811401012	3/4"		C	36,0	1,42
	M FAP13ZN 3/4 NPT	Male 811401013			B	36,0	1,42
5/8"	F FAP15ZN 3/4 NPT	Female 811401014	3/4"		C	41,0	1,61
	M FAP15ZN 3/4 NPT	Male 811401015			B	36,0	1,42
3/4"	F FAP17ZN 3/4 NPT	Female 811401020	3/4"		C	46,0	1,81
	M FAP17ZN 3/4 NPT	Male 811401021			B	46,0	1,81
3/4"	F FAP17ZN 1' NPT	Female 811401016	1"		C	46,0	1,81
	M FAP17ZN 1' NPT	Male 811401017			B	46,0	1,81
1"	F FAP21ZN 1' NPT	Female 811401022	1"		C	55,0	2,17
	M FAP21ZN 1' NPT	Male 811401023			B	55,0	2,17
1"	F FAP21ZN 1-1/4 NPT	Female 811401018	1-1/4"		C	55,0	2,17
	M FAP21ZN 1-1/4 NPT	Male 811401019			B	55,0	2,17

SPECIFICATIONS



Port description: FEMALE THREAD SAE (ISO 11926-1 & SAEJ1926-1)

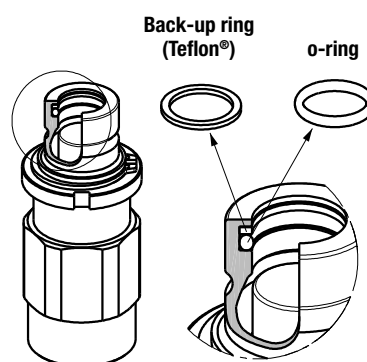
Body size	Descriptive Code	Item Code	Port (A)	A or D type		Hex	
						mm	inch
3/8"	F FAP9AZN 1/4 SAE	Female 811404020	7/16-UNF	A	C	27,0	1,06
	M FAP9AZN 1/4 SAE	Male 811404021			B	30,0	1,18
3/8"	F FAP9DZN 1/4 SAE	Female 811404022	7/16-UNF	D	C	27,0	1,06
	M FAP9DZN 1/4 SAE	Male 811404023			B	30,0	1,18
3/8"	F FAP9AZN 3/8 SAE	Female 811404024	9/16-18UNF	A	C	27,0	1,06
	M FAP9AZN 3/8 SAE	Male 811404025			B	30,0	1,18
3/8"	F FAP9DZN 3/8 SAE	Female 811404026	9/16-18UNF	D	C	27,0	1,06
	M FAP9DZN 3/8 SAE	Male 811404027			B	30,0	1,18
3/8"	F FAP9AZN 1/2 SAE	Female 811404002	3/4-16UNF	A	C	27,0	1,06
	M FAP9AZN 1/2 SAE	Male 811404003			B	30,0	1,18
3/8"	F FAP9DZN 1/2 SAE	Female 811404004	3/4-16UNF	D	C	27,0	1,06
	M FAP9DZN 1/2 SAE	Male 811404005			B	30,0	1,18
3/8"	F FAP9AZN 5/8 SAE	Female 811404006	7/8-14UNF	A	C	27,0	1,06
	M FAP9AZN 5/8 SAE	Male 811404007			B	30,0	1,18
3/8"	F FAP9DZN 5/8 SAE	Female 811404008	7/8-14UNF	D	C	27,0	1,06
	M FAP9DZN 5/8 SAE	Male 811404009			B	30,0	1,18
1/2"	F FAP13ZN 1/2 SAE	Female 811404028	3/4-16UNF		C	36,0	1,42
	M FAP13ZN 1/2 SAE	Male 811404029			B	36,0	1,42
1/2"	F FAP13ZN 5/8 SAE	Female 811404010	7/8-14UNF		C	36,0	1,42
	M FAP13ZN 5/8 SAE	Male 811404011			B	36,0	1,42
1/2"	F FAP13ZN 3/4 SAE	Female 811404012	1-1/16-12UN		C	36,0	1,42
	M FAP13ZN 3/4 SAE	Male 811404013			B	36,0	1,42
5/8"	F FAP15ZN 3/4 SAE	Female 811404014	1-1/16-12UN		C	41,0	1,61
	M FAP15ZN 3/4 SAE	Male 811404015			B	36,0	1,42
3/4"	F FAP17 3/4 SAE	Female 811404030	1-1/16-12UN		C	46,0	1,81
	M FAP17ZN 3/4 SAE	Male 811404031			B	46,0	1,81
3/4"	F FAP17ZN 1' SAE	Female 811404016	1-5/16-12UN		C	46,0	1,81
	M FAP17ZN 1' SAE	Male 811404017			B	46,0	1,81
1"	F FAP21ZN 1' SAE	Female 811404032	1-5/16-12UN		C	55,0	2,17
	M FAP21ZN 1' SAE	Male 811404033			B	55,0	2,17
1"	F FAP21ZN 1-1/4 SAE	Female 811404018	1-5/8-12UN		C	55,0	2,17
	M FAP21ZN 1-1/4 SAE	Male 811404019			B	55,0	2,17



SPARE KIT SEAL FOR MALE

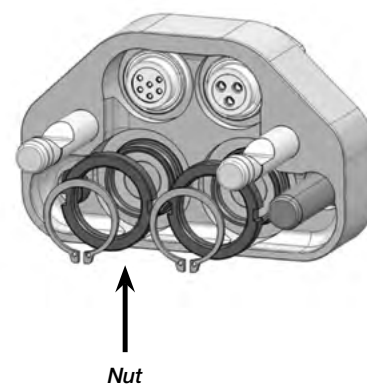
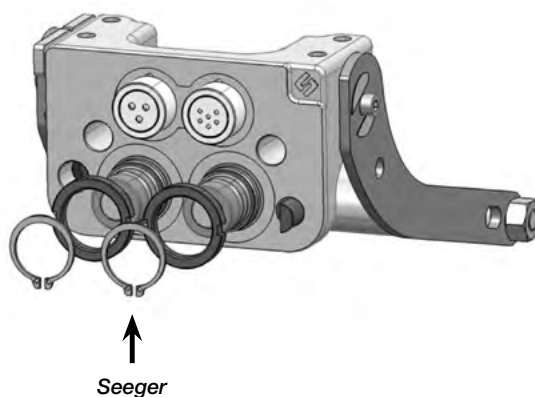
Repair kit / OR+BK		
Body Size	Description	Part Number
3/8"	M FAP9ZN	815701096
1/2"	M FAP13ZN	815700339
5/8"	M FAP15ZN	815700341
3/4"	M FAP17ZN	815700655
1"	M FAP21ZN	815700345

O-Ring in Nitrile
BackUp in Teflon®



REPAIR KIT/NUT + SEEGER

Repair kit / Nut + Seeger	
Part Number	Description
815701000	KIT NR.10 NUT+SEEGER RING F/M FAP9AZN
815701001	KIT NR.10 NUT+SEEGER RING F/M FAP9DZN
815701002	KIT NR.10 NUT+SEEGER RING F/M FAP13ZN
815701003	KIT NR.5 NUT+SEEGER RING F/M FAP15ZN
815701004	KIT NR.5 NUT+SEEGER RING F/M FAP17ZN
815701005	KIT NR.5 NUT+SEEGER RING F/M FAP21ZN





FAP-HP SERIES

INTERCHANGE > Stucchi profile (only for Stucchi multicouplings)



Stucchi®



TECHNICAL FEATURES AND OPTIONS



Interchange

Stucchi profile
(only for Stucchi
multicouplings)



Sealing description

Nitrile NBR



Connection system

By multicoupling



Available sizes

3/8"



Material

High strenght
carbon steel



Available threads

NPT



Operating pressure

Up to 720 bar



Locking mechanism

PIN/CAM



Flow rate

Up to 46 L/Min



Temperature (°C)

-20° / +100°



Valving style

Flat face



Connection under pressure

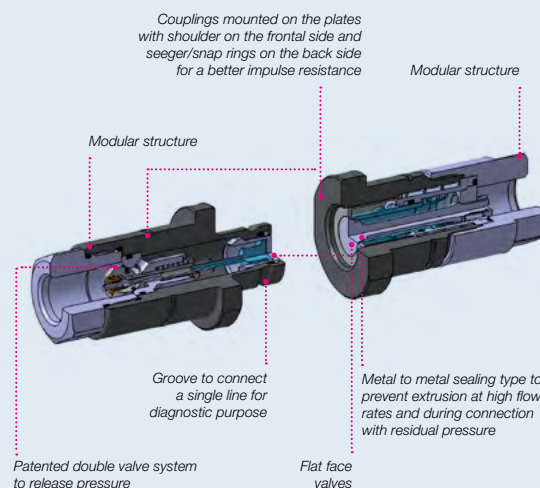
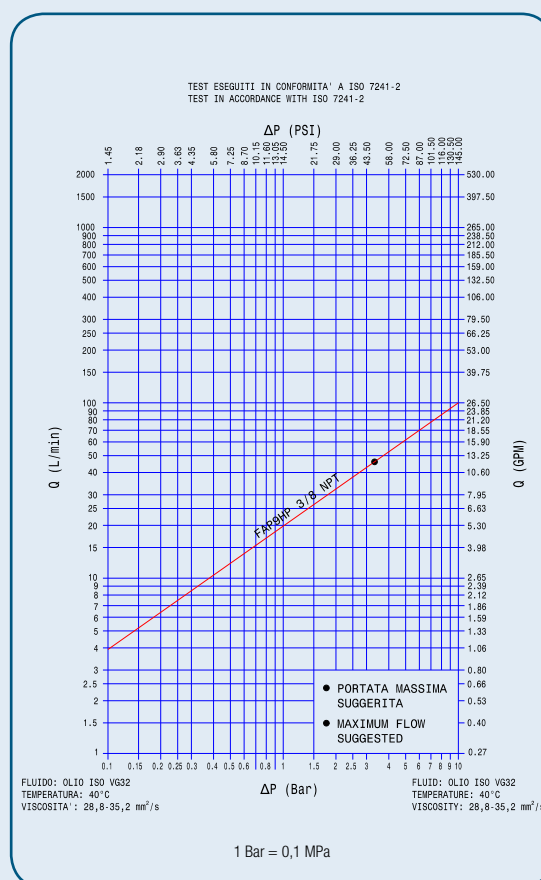
Connection: Both sides.
Disconnection: allowed.

BENEFITS

- Flat face is easy to clean, helping to reduce the inclusion of contamination in the hydraulic circuit.
- Minimal fluid loss during connection / disconnection, reducing fluid loss to the environment.
- Minimal air inclusion during connection / disconnection, enhancing correct function of the circuit.
- Internal flow of valve design creates minimal pressure drop, maintaining circuit efficiency in the system.
- Patented internal pressure release valve system allows an easy connection with high internal residual pressure.
- The modular design allows for broad range of port configurations.
- Couplings without locking balls eliminate the "brinelling" effect.
- For diagnostic purpose of a single line (example: pressure or flow check for a limited period of time), male FAP9HP may be connected with a Stucchi "A9HP serie" flat face female coupling.
- Compact slim design.
- Safe and simple to use.

HOW TO USE

- See instructions at page 23



MAIN APPLICATIONS



Agriculture



Oil/Gas



Industry



High Pressure



Cooling



Refrigeration



Earth Moving



Vehicles



Hydraulic Equipment



Chemical & Food Industry

PERFORMANCE

Size		Series/Size	Max. flow suggested		Hydrostatic pushing area coupled	Spillage*
Inch	mm (ISO)		l/min	GPM	Cm ²	ml
3/8	-	FAP9HP	46	12,19	1,168	0,012

Size	Series/Size	Max. operating pressure						Burst pressure					
		Coupled		Male		Female		Coupled		Male		Female	
Inch		MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/8	FAP9HP	72	10440	72	10440	42	6090	180	26100	200	29000	125	18125

Size	Series/Size	Max. residual pressure during connection						Max. residual pressure during disconnection	
		Male Female to drain		Female Male to drain		Male and Female			
Inch		MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/8	FAP9HP	25	3625	25	3625	25	3625	25	3625

*Spillage is an indicative value of the fluid loss per couple-uncouple cycle without residual pressure

Temperature range:

Seals in NBR (Nitrile): from -20 °C to +100 °C (from -4 °F to +212 °F)

Tests:

The couplings have been tested at max. operating pressure for 10.000 impulses in according with ISO 7241-2.

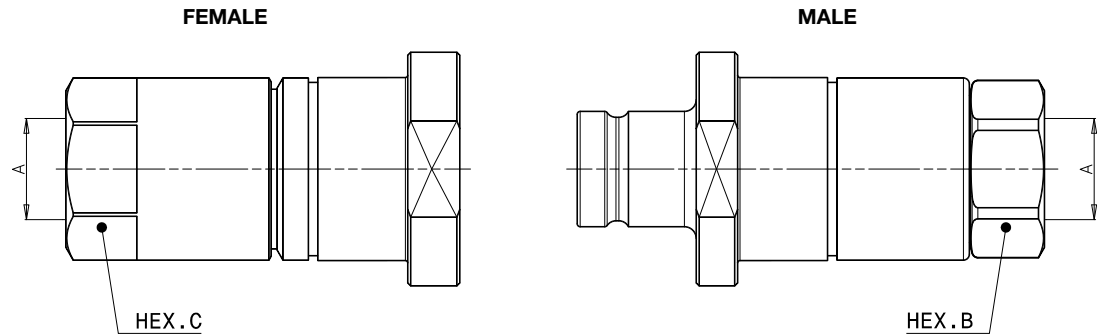
! WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.
 Never connect or disconnect with dynamic pressure (e.g. pump on).
 Do not use the female coupling disconnected with high impulse pressure.
 Do not couple-uncouple with flow and/or pressure in the circuit.
 Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).
 Check the maximum allowable operating pressure of the port in use.
 Make sure that the medium used is compatible with seal and material as indicated for each series.
 In case of doubt please contact Stucchi Technical Support.

It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on Stucchi website (www.stucchi.it) before selecting or using Stucchi products.

When the couplings are disconnected, it is suggested to use the protection cap and parking station.
 It is important to limit contamination in the circuit to avoid compromising the function of the internal valve
 FAP-HP series is intended to be used only on Stucchi Multiconnections. Do not use the FAP-HP coupling on a Custom-made multiconnection or other device different than a Stucchi Multiconnection.
 FAP-HP series is intended to be used with standard hydraulic oils in fluid power application. Do not use the FAP-HP coupling with different fluids (for example with inflammable, corrosive or dangerous fluids, gases ecc).
 Please verify if the multiconnection you are using requires FA9HP type consulting the single multicoupling datasheet
 Do not use the male FAP-ZN groove to connect the A-HP series female for a continuous service with pressure impulse (this feature is intended to be used only for diagnostic purpose for a short&limited time).

SPECIFICATIONS



Port description: FEMALE THREAD NPT (ANSI B1.20.1)

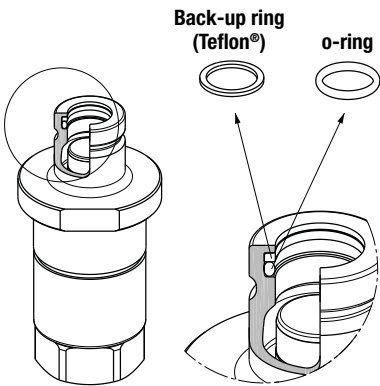
Body size	Descriptive Code	Item Code	Port (A)	A or D type		Hex	
						mm	inch
3/8"	F FAP9HP 3/8 NPT	Female 807101000	3/8"	-	C	27,0	1,06
	M FAP9HP 3/8 NPT	Male 807101001			B	27,0	1,06



SPARE KIT SEAL FOR MALE

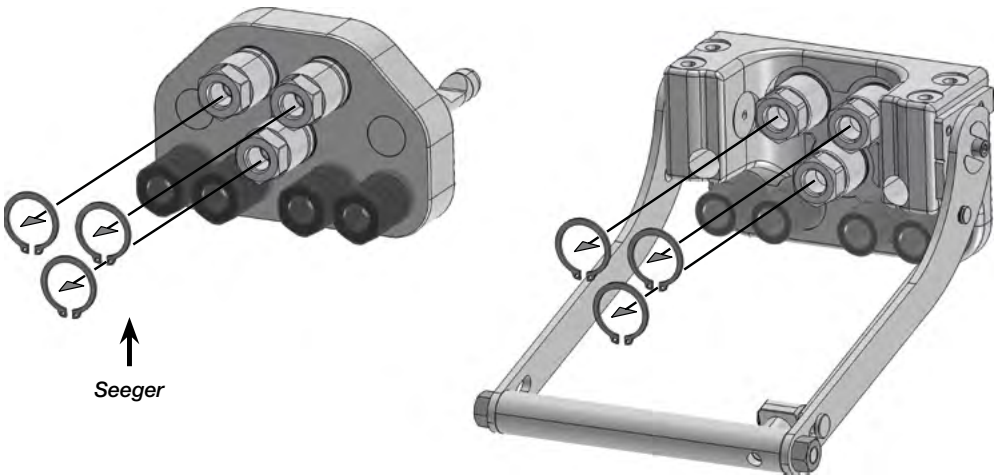
Repair kit / OR+BK		
Body Size	Description	Part Number
3/8"	FAP9HP	815701119

O-Ring in Nitrile
BackUp in Teflon®



REPAIR KIT/SEEGER

Repair kit/Seeger	
Part Number	Description
815701038	KIT NR.5 SEEGER RINGS FOR PLUG-FAP9HP





FAQSERIES

INTERCHANGE > Stucchi profile (only for Stucchi multicouplings)



Stucchi®



TECHNICAL FEATURES AND OPTIONS

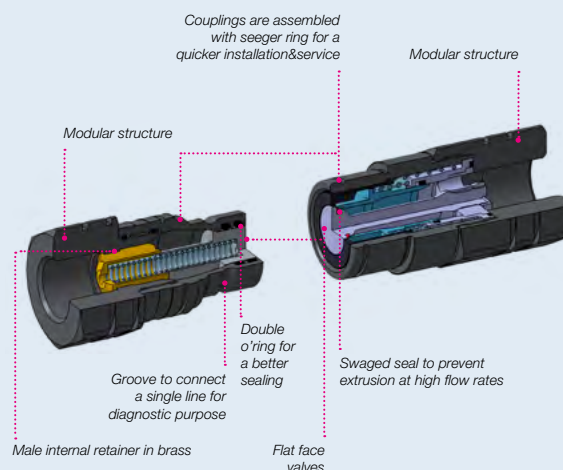
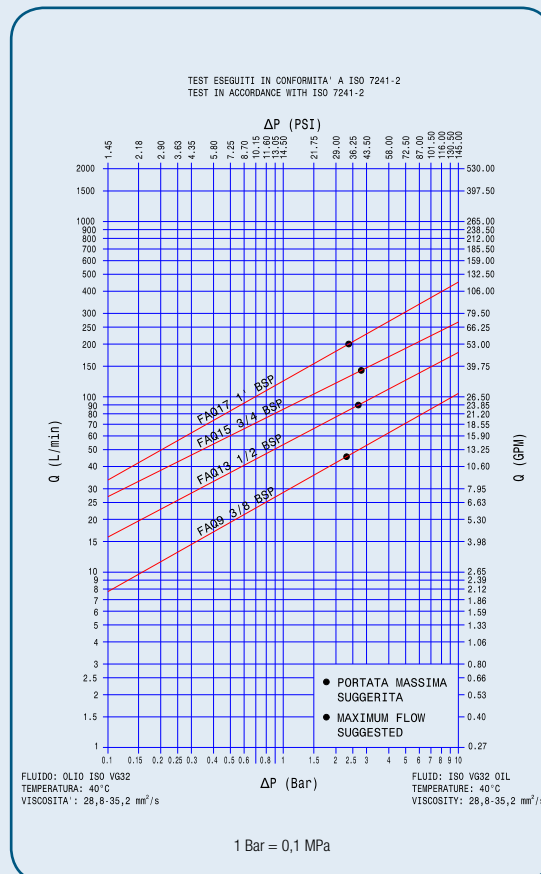
	Interchange Stucchi profile (only for Stucchi multicouplings)		Sealing description Nitrile NBR		Connection system By multicoupling
	Available sizes from 3/8" to 3/4"		Material High strenght carbon steel		Available threads BSP - NPT
	Operating pressure Up to 20 bar		Locking mechanism PIN/CAM		Flow rate Up to 200 L/Min
	Temperature (°C) oil -20°/+100° water +5°/+65°		Valving style Flat face		Connection under pressure Connection: not allowed. Disconnection: not allowed.

BENEFITS

- Designed to be used with fluids like water or water & glycol lines.
- Flat face is easy to clean, helping to reduce the inclusion of contamination to the hydraulic circuit.
- Minimal fluid loss during connection/disconnection, reducing fluid loss to the environment.
- Minimal air inclusion during connection/disconnection, enhancing correct function of the circuit.
- Linear flow reduces internal turbulence and pressure drop, maintaining circuit efficiency in the entire system.
- Superior corrosion resistance compared to zinc plating in specific corrosive environments (example: water, water&glycol, cooling fluids).
- The modular design allows flexibility with the range of port configurations.
- Allows to conduct in the same multiconnection different fluids.
- Double oring in the male valving to improve sealing action when connected.
- For diagnostic purpose of a single line (example: pressure or flow check for a short&limited time), male FAQ may be connected with a Stucchi FIRG-Q series flat face female.
- Couplings are assembled with a seeger ring for a quicker mounting or service on the multiconnection.

HOW TO USE

- See instructions at page 24



MAIN APPLICATIONS



PERFORMANCE

Size		Series/Size	Max. flow suggested		Hydrostatic pushing area coupled	Spillage*
Inch	mm (ISO)		l/min	GPM	Cm ²	ml
3/8	-	FAQ9	46	12,19	1,226	0,012
1/2	-	FAQ13	90	23,85	1,893	0,020
5/8	-	FAQ15	148	39,22	2,404	0,026
3/4	-	FAQ17	200	53,00	3,298	0,032

Size	Series/Size	Max. operating pressure					
		Coupled		Male		Female	
Inch		MPa	psi	MPa	psi	MPa	psi
3/8	FAQ9	2	290	2	290	2	290
1/2	FAQ13	2	290	2	290	2	290
5/8	FAQ15	2	290	2	290	2	290
3/4	FAQ17	2	290	2	290	2	290

* Spillage is an indicative value of the fluid loss per couple-uncouple cycle without residual pressure

Temperature range:

Seals in NBR (Nitrile):

- for oil, from -20° C to +100° C (from -4° F to +212° F)
- for water, from +5° C to +60° C (from +41° F to +140° F)



WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.

Never connect or disconnect with dynamic pressure (e.g. pump on).

Do not use the female coupling disconnected with high impulse pressure.

Do not couple-uncouple with flow and/or pressure in the circuit.

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).

Check the maximum allowable operating pressure of the port in use.

Make sure that the medium used is compatible with seal and material as indicated for each series.

In case of doubt please contact Stucchi Technical Support.

It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on Stucchi website (www.stucchi.it) before selecting or using Stucchi products.

Connection and disconnection has to be done without pressure only

When the multicoupling is disconnected, it is suggested to use the protection caps&parking station.

Do not disassemble, misuse, modify or damage the products.

FAQ series is intended to be used only on Stucchi Multiconnections. Do not use the FAQ coupling on a Custom-made multiconnection or other device different than a Stucchi Multiconnection.

FAQ series has been tested&approved for use with water. FAQ series is intended to be used only with not dangerous fluids (water, water&glycol, hydraulic oil) . Do not use

FAQ couplings with dangerous, flammable or explosive fluids (steam, acids, very hot/flammable oils, gases, dangerous gases etc.). Contact Stucchi Service for support.

Do not use FAQ couplings with very hot fluids (limits given by NBR seal compatibility&temperature range – see "performance" of FAQ serie).

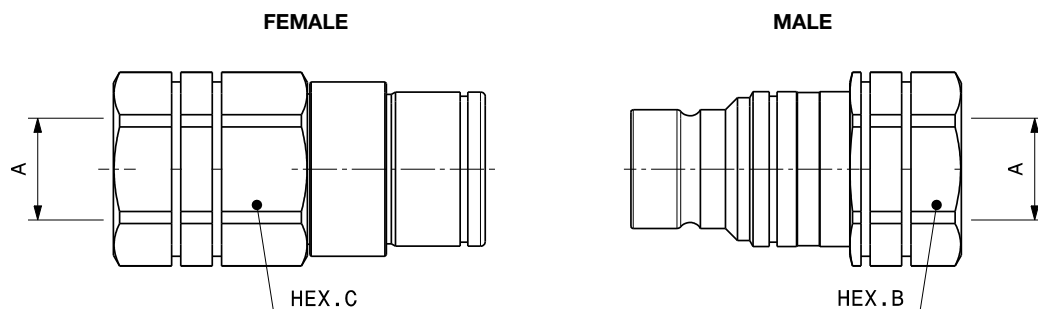
Do not use FAQ couplings with fluids below the freezing point to avoid damages due to ice expansion and consequential extrusion of the valving

For dimension "FAQ9 - size 3/8": there are two versions of FAQ9: "A" and "D". The version is depending the type of multiconnection are in use. Please verify if the

multiconnection you are using requires FAQ9 "A" or "D" type consulting the single datasheet in case of need of spare parts. See specific instruction.

Contact Stucchi Service for support.

SPECIFICATIONS



Port description: FEMALE THREAD BSPP (ISO 1179-1)

Body size	Descriptive Code	Item Code	Port (A)	A or D type		Hex	
						mm	inch
3/8"	F FAQ9A 3/8 BSP	Female 806900018	3/8"	A	C	30,0	1,18
	M FAQ9A 3/8 BSP	Male 806900019			B	27,0	1,06
3/8"	F FAQ9D 3/8 BSP	Female 806900022	3/8"	D	C	30,0	1,18
	M FAQ9D 3/8 BSP	Male 806900023			B	27,0	1,06
1/2"	F FAQ13 1/2 BSP	Female 806900006	1/2"	-	C	36,0	1,42
	M FAQ13 1/2 BSP	Male 806900007			B	36,0	1,42
5/8"	F FAQ15 3/4 BSP	Female 806900010	3/4"	-	C	41,0	1,61
	M FAQ15 3/4 BSP	Male 806900011			B	36,0	1,42

Port description: FEMALE THREAD NPT (ANSI B1.20.1)

Body size	Descriptive Code	Item Code	Port (A)	A or D type		Hex	
						mm	inch
3/8"	F FAQ9D 3/8 NPT	Female 806901022	3/8"	D	C	30,0	1,18
	M FAQ9D 3/8 NPT	Male 806901023			B	27,0	1,06

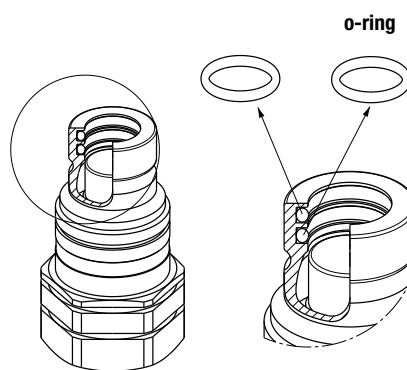
Size 3/4 (FAQ17) available upon request.



SPARE KIT SEAL FOR MALE

Repair kit / OR+BK		
Body Size	Description	Part Number
3/8"	KIT NR.10 OR M FAQ9	815701065
1/2"	KIT NR.10 OR M FAQ13	815701067
5/8"	KIT NR.10 OR M FAQ15	815701069

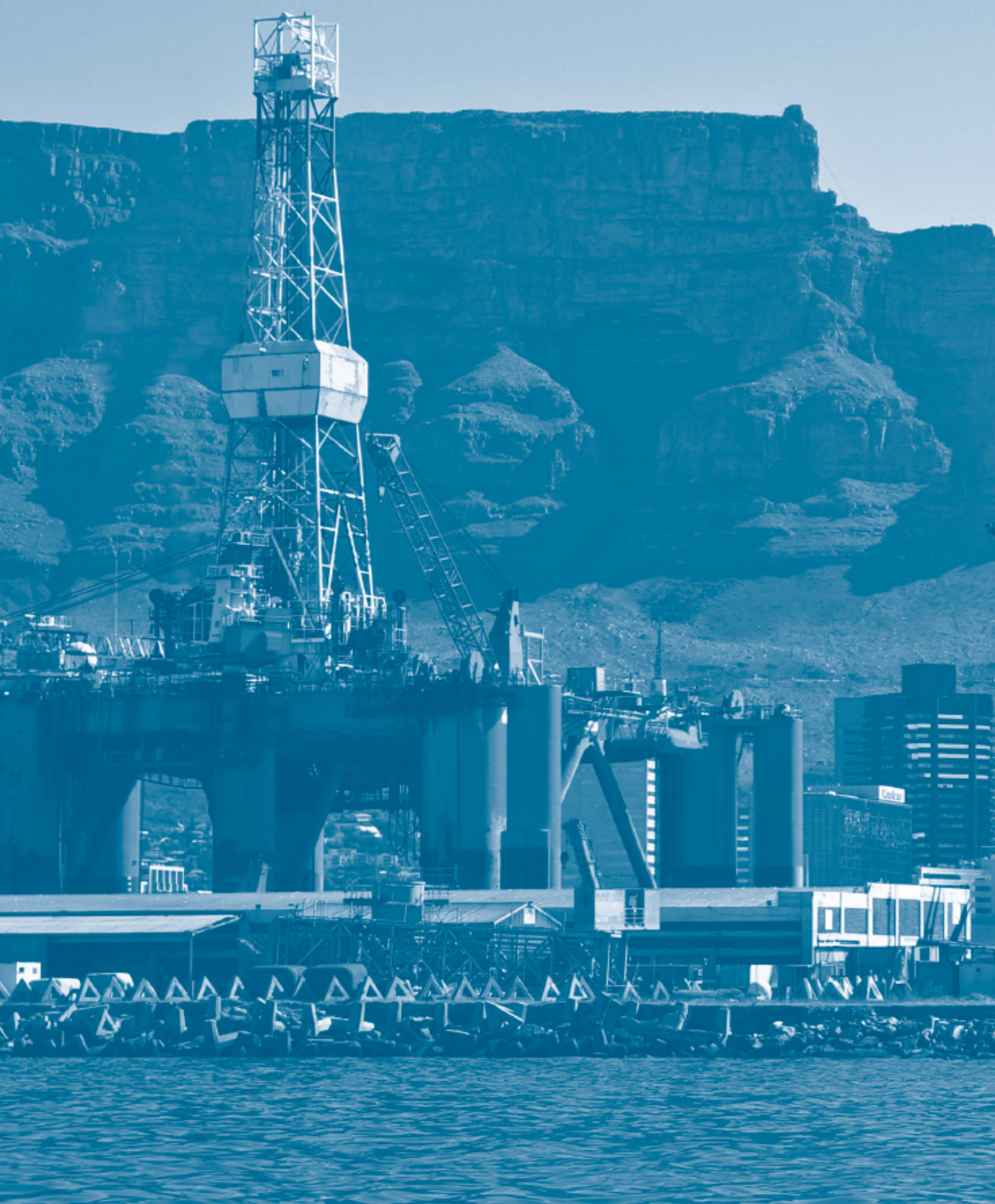
O-Ring in Nitrile
(kit composed of 10 O-Ring for male coupling; 1 male = 2 O-Ring)



REPAIR KIT/SEEGER

Repair kit/Seeger	
Part Number	Description
815701033	KIT NR.10 SEEGER RINGS FOR PLUG-FAP9-FAQ9
815701034	KIT NR.10 SEEGER RINGS FOR PLUG-FAP13-FAQ13
815701035	KIT NR.5 SEEGER RINGS FOR PLUG-FAP15-FAQ15
815701036	KIT NR.5 SEEGER RINGS FOR PLUG-FAP17-FAQ17



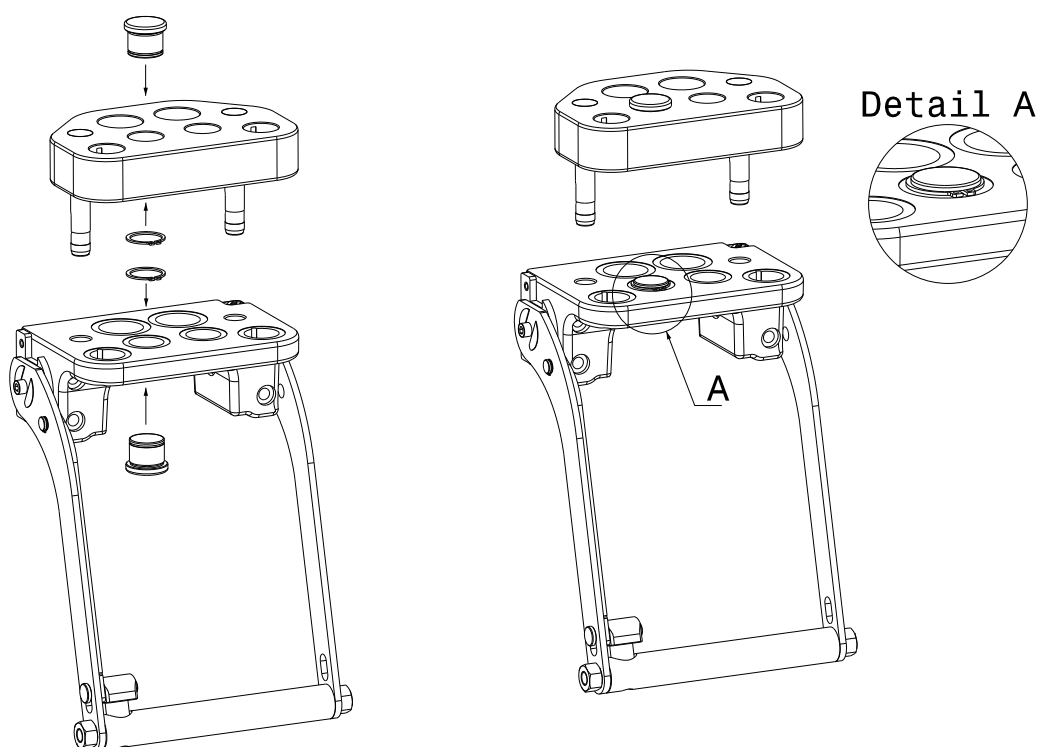




When the multicoupling chosen has one or more holes where no couplings or electrical connectors are fitted, it is important to cover the holes with the proper plugs in order to avoid dirt entering the multicoupling. The plugs for multicouplings holes are made in black anodizing aluminum.

Installation

- Put the plug in the corresponding hole of mobile or fixed multiconnection.
- Assemble the seeger ring with proper plyers.
- Check the correct positioning of the seeger ring after assembly.
- To disassemble: same as above but reverse process.



PLUGS

Plugs	
Body Size	Description
815701030	KIT NR.5 PLUGS FOR HOLE MULTI FIX FAP9HP
815701031	KIT NR.5 PLUGS FOR HOLE MULTI MOBILE FAP9HP
815701018	KIT NR.10 PLUGS FOR HOLE MULTI FIX FAP9
815701020	KIT NR.10 PLUGS FOR HOLE MULTI MOBILE FAP9
815701022	KIT NR.10 PLUGS FOR HOLE MULTI FIX FAP13
815701023	KIT NR.10 PLUGS FOR HOLE MULTI MOBILE FAP13
815701024	KIT NR.5 PLUGS FOR HOLE MULTI FIX FAP15
815701025	KIT NR.5 PLUGS FOR HOLE MULTI MOBILE FAP15
815701026	KIT NR.5 PLUGS FOR HOLE MULTI FIX FAP17
815701027	KIT NR.5 PLUGS FOR HOLE MULTI MOBILE FAP17
815701028	KIT NR.5 PLUGS FOR HOLE MULTI FIX FAP21
815701029	KIT NR.5 PLUGS FOR HOLE MULTI MOBILE FAP21

Kit composed of only plugs, to fix in the plate you need also seeger ring (see table here below)

SEEGER RING

Seeger ring	
Body Size	Description
815701033	KIT NR.10 SEEGER RINGS FOR PLUG-FAP9-FAQ9
815701034	KIT NR.10 SEEGER RINGS FOR PLUG-FAP13-FAQ13
815701035	KIT NR.5 SEEGER RINGS FOR PLUG-FAP15-FAQ15
815701036	KIT NR.5 SEEGER RINGS FOR PLUG-FAP17-FAQ17
815701037	KIT NR.5 SEEGER RINGS FOR PLUG-FAP21
815701038	KIT NR.5 SEEGER RINGS FOR PLUG-FAP9HP



WARNING

Pay attention not to damage the seeger ring during the assembly
Do not leave any open hole (without plug) in the multiconnection in order to avoid dirt to enter in the parts.
Do not disassemble, misuse, modify or damage the products.





In addition to the couplings for fluid energy transmission, it is possible to fit in the multicouplings the electrical connectors for the electric energy transmission. They are suitable for all very low tension electronic (max 24 V) devices such as instrumentation, signals, solenoid valves, etc.

Technical features and options



Interchange
Stucchi profile



Ampere
12 service to 15 max (each contact)



Max. number of contacts
7



Voltage
24 V max.



Seals
NBR (Nitrile)



Connection contact and electrical wire
To crimp



Construction material
Body brass nickel plated; cable retainer in plastic



IP protection
Not listed

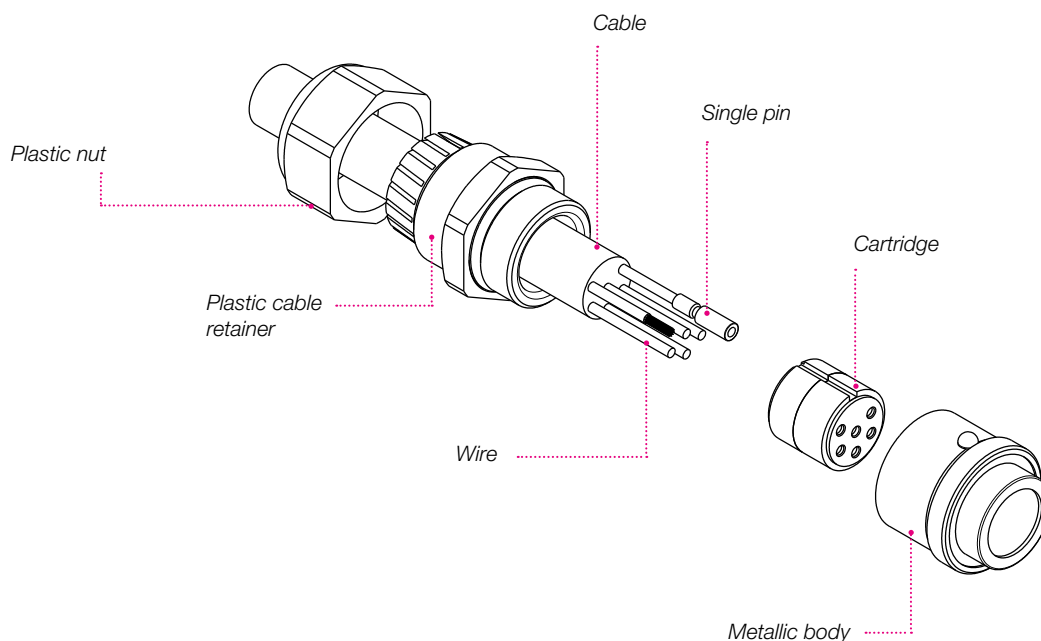


Contact diameter
2 mm

New name	Previous description	Family	Electrical Connector				Page
			3/8"		1/2"		
			6 POLES (EC6) electrical connetor female - male	7 POLES (EC7) electrical connetor female - male	6 POLES (EC6) electrical connetor female - male	7 POLES (EC7) electrical connetor female - male	
DP2 2A-1EC	DP2-9ZN	DP	806422000-039	-	-	-	30
DP2 2A-2EC V04	DP2-9L	DP	806422000-039	-	-	-	32
DP2 2B-1EC	DP2-13ZN	DP	-	-	806422010-035	806422024-043	34
DP2 2B-2EC V04	DP2-13L	DP	-	-	806422010-035	806422024-043	36
DP2 2C	DP2-15	DP	-	-	-	-	38
DP2 2D	DP2-17ZN	DP	-	-	-	-	40
DP2 1A-1B	DPT2ZN	DP	-	-	-	-	42
DP3 1A-1B-1EC	DPT3ZN	DP	-	806422012-027	-	-	44
DP3 1C-2E	DP3GE	DP	-	-	-	-	46
DP3 2A-1EC	DPJ3ZN	DP	806422000-021	806422012-033	-	-	48
DP4 4A V02	DP4-9FAZN	DP	806422000-039	-	-	-	50
DP4 4A-2EC	DP4-9ZN	DP	806422000-039	-	-	-	50
DP4 4B-2EC	DP4-13ZN	DP	-	-	806422010-035	806422024-043	52
DP6 4A-2EC	DP6-9ZN	DP	806422000-041	-	-	-	54
DP6 2A-4D-2EC	DP6AD	DP	on request	on request	-	-	56
GR3 3A-1EC	GR3-9ZN	GR	80642200-001	806422012-013	-	-	58
GR3 3B-1EC	GR3-13ZN	GR	-	-	806422010-011	806422024-025	60
GR3 1A-2E-1EC	GRK3ZN	GR	806422000-007	806422012-019	-	-	62
GR3 2B-1C-2EC	GRI3	GR	-	-	806422010-011	806422024-025	64
GR4 2A-1B-1C-2EC	GRI4SBZN	GR	806422000-007	806422012-019	-	-	66
GR4 2A-2B-2EC	GRB4ZN	GR	806422000-007	806422012-019	-	-	68
GR4 2A-1B-1D-2EC	GR4MRZN	GR	806422000-007	806422012-019	-	-	70
GR4 2A-1C-1D-2EC	GRI4ZN	GR	806422000-007	806422012-019	-	-	72
GR4 2A-2C-2EC	GRI4TBZN	GR	806422000-007	806422012-019	-	-	74
GR5 2B-3D-2EC	GR5AAZN	GR	-	-	806422010-011	806422024-025	76
GR5 3A-1D-1E-2EC	GRD5ZN	GR	806422000-007	806422012-019	-	-	78
GR5 2B-2C-1E-2EC	GRZ5ZN	GR	-	-	806422010-011	806422024-025	80
GR5 5C	GR5-15ZN	GR	-	-	-	-	82
GR6 6A-2EC	GR6-9ZN	GR	806422000-001	806422012-013	-	-	84
GR6 4A-2B-2EC	GRT6ZN	GR	806422000-007	806422012-019	-	-	86
GR4 4B-2D-4EC	GR6ABZN	GR	-	-	806422010-011	806422024-025	88
GR6 2A-2B-2C-2EC	GRM6MCZN	GR	806422000-007	806422012-019	-	-	90
GR6 6B-2EC	GR6-13ZN	GR	-	-	806422010-011	806422024-025	92
GR6 3A-1B-1C-1D-2EC	GRC6ZN	GR	806422000-007	806422012-019	-	-	94
GR6 1A-1B-1C-2D-1EC	GRP6ZN	GR	806422000-007	806422012-019	-	-	96
GR6 2A-2C-2D-2EC	GRM6ZN	GR	806422000-007	806422012-019	-	-	98
GR6 2A-2B-1D-1E-1EC	GRU6ZN	GR	806422000-007	806422012-019	-	-	100
GR6 2B-4D-2EC	GR6LLZN	GR	-	-	806422010-011	806422024-025	102
GR6 2A-4C-2EC	GRM6ALZN	GR	806422000-007	806422012-019	-	-	104
GR6 2A-1B-2D-1E-3EC	GR6AF	GR	806422000-007	806422012-019	806422010-011	806422024-025	106
GR7 4A-3B-4EC	GR7ABZN	GR	806422000-007	806422012-019	-	-	108
GR7 4A-3B-4EC V01	GR7ABZNLC	GR	806422000-007	806422012-019	-	-	108
GRHP7 7A-4EC	GR7ACZN	GR	806422000-007	806422012-019	-	-	110
GR7 4A-1B-2D-4EC	GR7AAZN	GR	806422000-007	806422012-019	-	-	112
GR8 6A-2B-6EC	GR8ABZN	GR	806422000-007	806422012-019	-	-	114
GR8 7A-1D-7EC	GR8AAZN	GR	806422000-007	806422012-019	-	-	116
GR10 10A V01	GR10-9LCZN	GR	806422000-007	806422012-019	-	-	118
GR10 10A V03	GR10-9ZNSD	GR	-	-	-	-	118
GR10 10A-2EC	GR10-9ZN	GR	806422000-007	806422012-019	-	-	118
GR10 10B-2EC	GR10-13ZN	GR	-	-	806422010-011	806422024-025	120

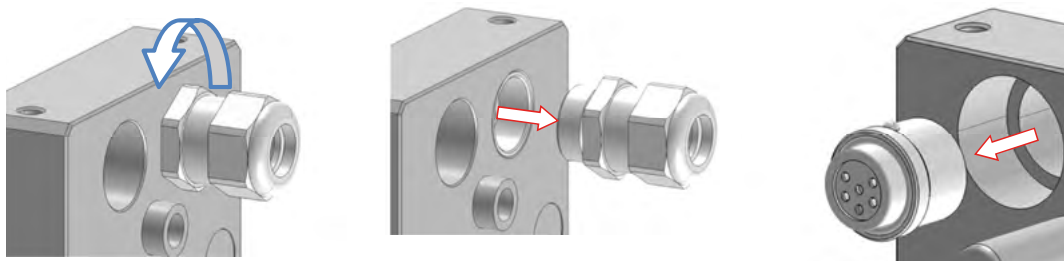
Installation

Stucchi electrical connectors are normally supplied already assembled on the Stucchi multicouplings or could be supplied as a spare part to be replaced on a Stucchi multicoupling.

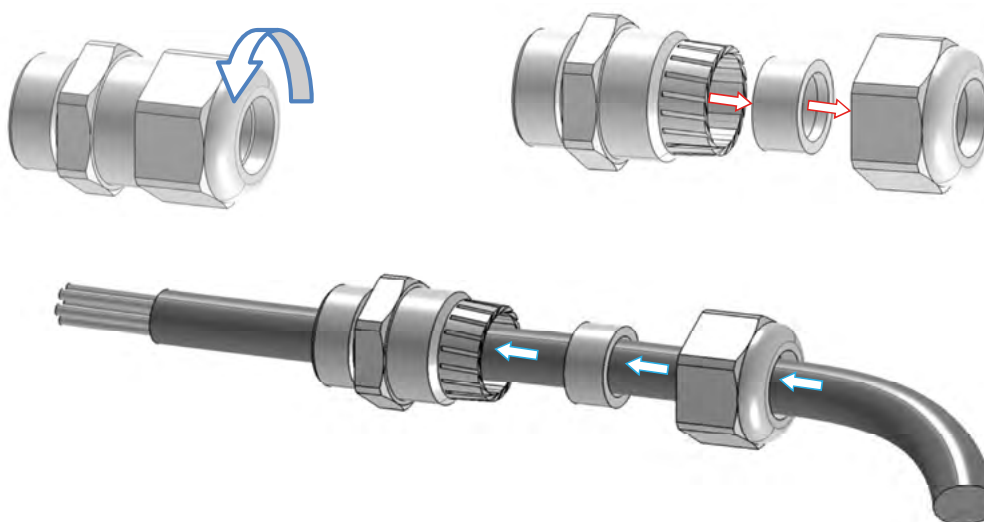


A. If the electrical connector is assembled on a Stucchi multi coupling proceed as following instruction:

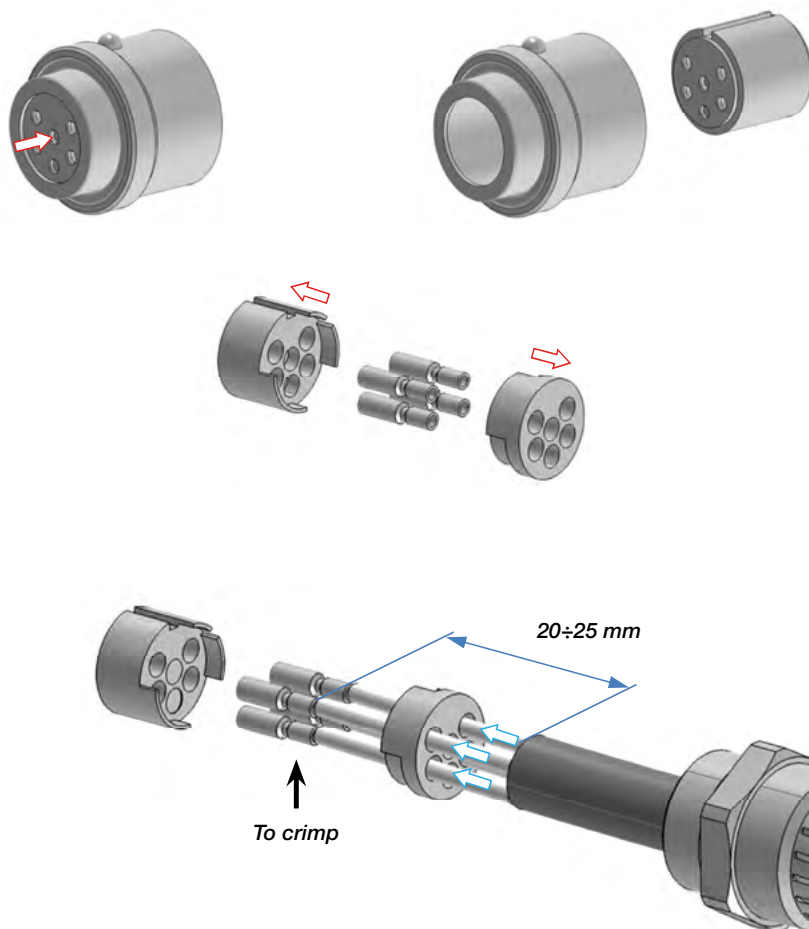
Unscrew the cable retainer from the back of the multi coupling & extract the electrical connector from the multi coupling, separating the plastic cable retainer from the metallic body of the electrical connector.



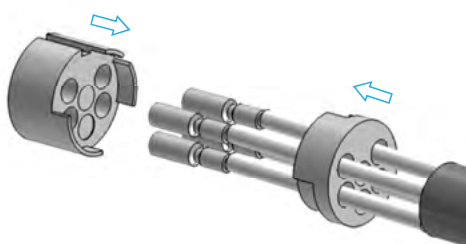
Unscrew the plastic nut from the cable retainer, then insert the cable in the plastic cable retainer, so strip the cable for a length of 30 mm and the single wires for 10 mm.



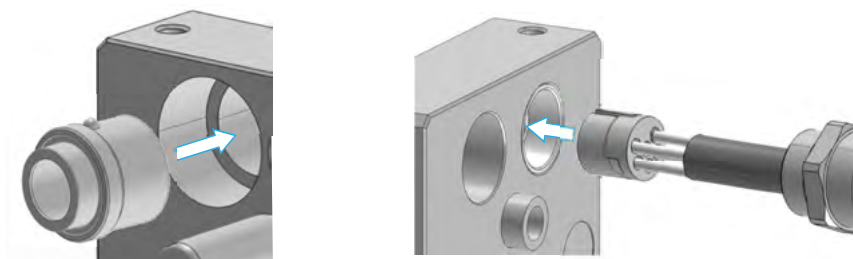
Open the electrical connector cartridge to extract the single pins.
Install the single cable wire crimping the end on the pin with the proper tool.



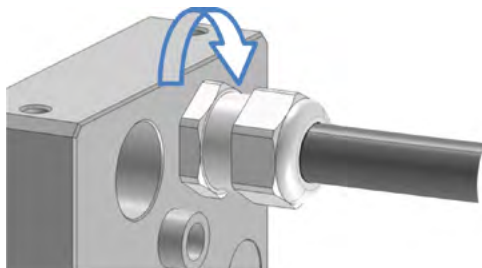
Assemble the cartridge with all the pins & wiring crimped.



Insert the metal body of the electrical connector at the back of the multicoupling. Insert the cable with all the group assembled on.
Allow the alignment of the groove on the cartridge with the pin in the hole of the multiconnection.



Screwing the plastic nut with the metallic body (a manual torque is enough, do not overtorque). Push the cable in direction of the connector, while screw the (cable retainer) plastic nut to lock the cable and verify if there is no space for accidental incoming of water or dirt between cable and cable retainer sealing (a manual torque is enough, do not overtorque). The cable has to adhere to the cable retainer not allowing water, dirt or moisture to enter in. The male electrical connector is provided with a plastic protection: ensure this protection is sliding correctly on the pins after assembly.



Before connecting clean the flat mating surface to avoid inclusion of contamination. Connect and disconnect in according to the instruction of use for multicoupling. Test the correct functioning of the electrical connector.

B. If the electrical connector is supplied as a spare part to be replaced on a Stucchi multi coupling

Same as above but start by opening the electrical connector separating the plastic cable retainer from the upper metal body.



WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects. It is **MANDATORY** to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on Stucchi website (www.stucchi.it) before selecting or using Stucchi products.

- Do not pull the cable assembly during the use in order to avoid damages of the electrical connector.
- Do not weld the electrical connector pins, they are intended to be assembled by crimping with proper tool.
- Do not use the electrical connector with high voltage or high amperage.
- Do not connect or disconnect with power in the lines! Always shut off the power prior to connect&disconnect.
- Do not touch with hand, finger or tools the pins. Do not shortcircuit, misuse or modify the parts.
- Avoid liquids, dirt, particles or other objects touching the pins: shortcircuits may happen!

The products are intended to be used in Stucchi multiconnection only. Do not use the electrical connectors on a Custom-made multiconnection or other device different than a Stucchi Multiconnection.

Every multiconnection has to be fitted with the corresponding electrical connector. For spare parts consult the list of EC at following page and the single datasheet of the multiconnection in use. Contact Stucchi Service for support.

Levers & Locking

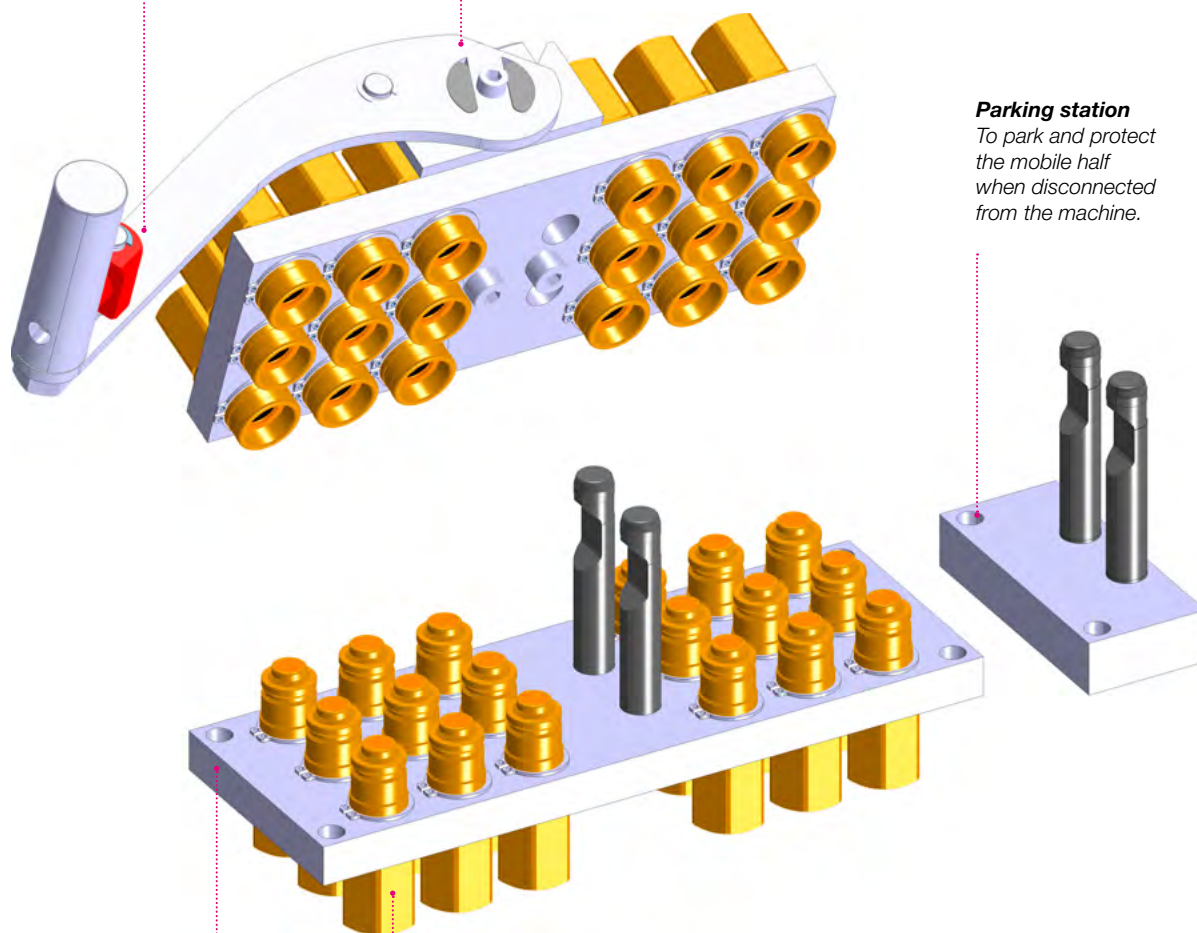
*Ergonomic lever for easy connection/
disconnection with Safety lock system
avoids accidental disconnection*

Mobile half

*For GRE multiconnection family
is the part with the lever, normally
installed on the attachment.*

Parking station

*To park and protect
the mobile half
when disconnected
from the machine.*



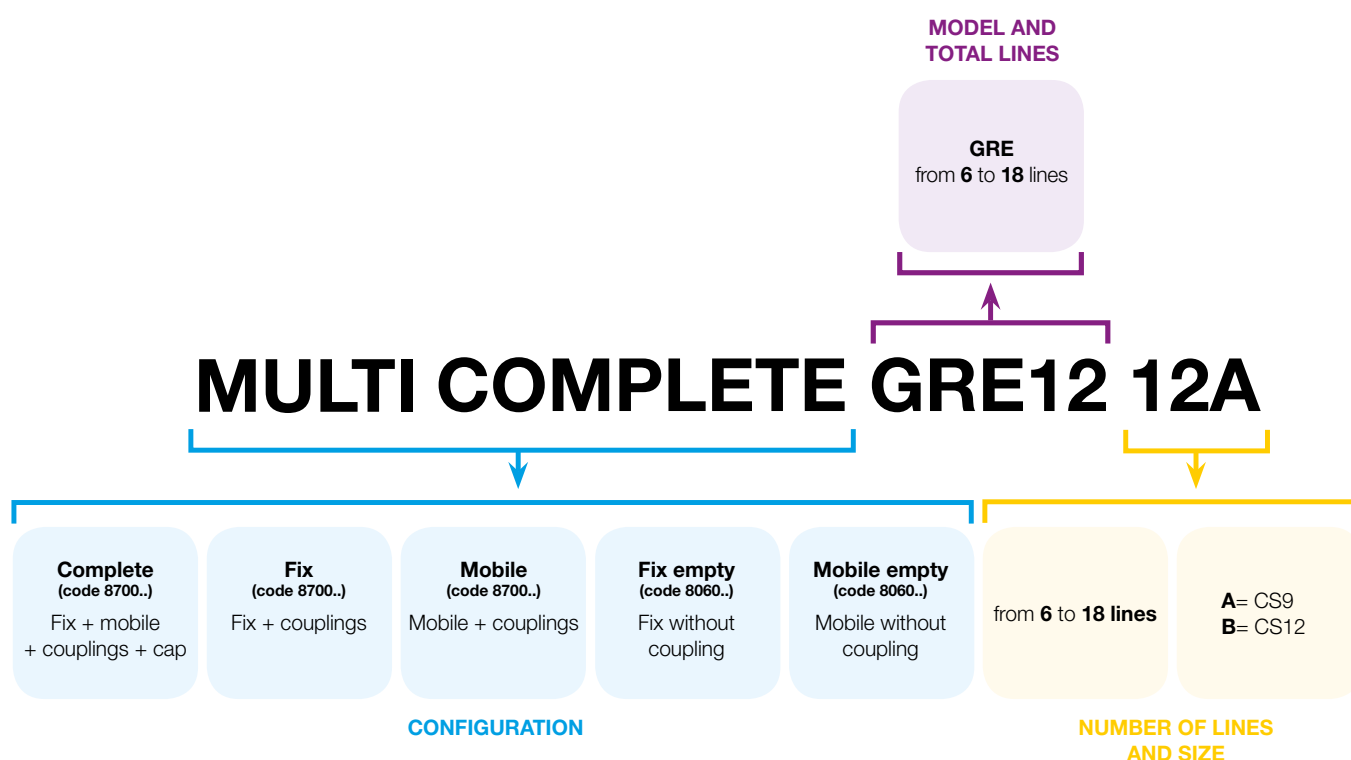
Male & female couplings

*Equipped with special valve to connect&disconnect the hydraulic,
water or pneumatic lines. Made in brass with stainless steel springs.*

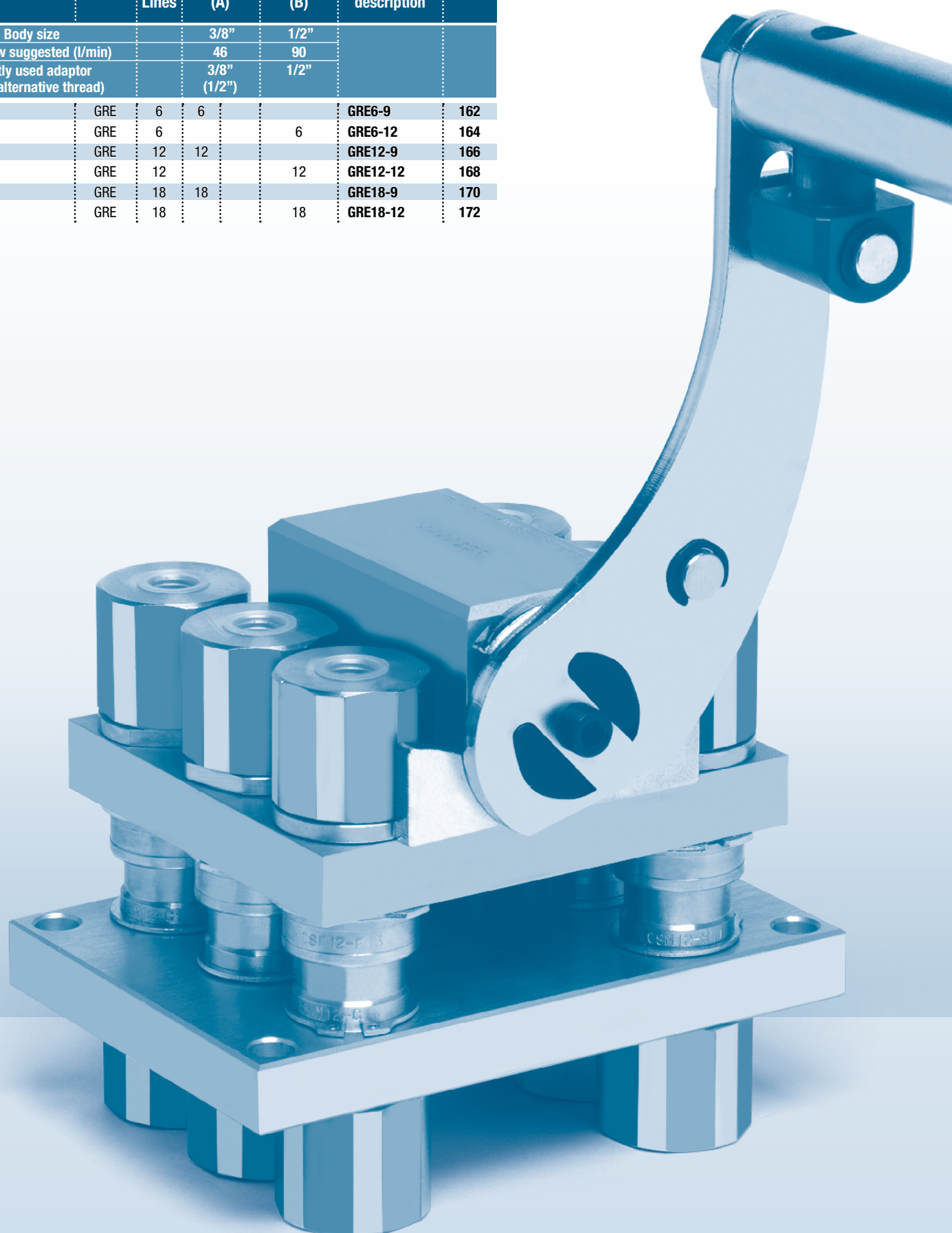
Fixed half

*For GRE multiconnection family is the part with the pins
but without the lever, normally installed on the machine.*

The stucchi multicoupling description can help you to easily know the characteristics of a multicoupling: configuration and model, number of lines and size, presence of electrical connectors. See the example below...



New name	Family	Total Lines	CS9 (A)	CS12 (B)	Previous description	Page
Body size			3/8"	1/2"		
Max flow suggested (l/min)			46	90		
Mostly used adaptor (main alternative thread)			3/8" (1/2")	1/2"		
GRE6 6A	GRE	6	6		GRE6-9	162
GRE6 6B	GRE	6		6	GRE6-12	164
GRE12 12A	GRE	12	12		GRE12-9	166
GRE12 12B	GRE	12		12	GRE12-12	168
GRE18 18A	GRE	18	18		GRE18-9	170
GRE18 18B	GRE	18		18	GRE18-12	172



Water/Glycol - Air/Oil

Operating pressure up to
10 bar - 145 PSI

Connection/Disconnection
without residual pressure

GRE

Features

- UP to 18 lines
- Plates in anodized aluminum
- Couplings in Brass



CHOOSE CONFIGURATION OF THE MULTICOUPLING



1 Dimension your CS couplings

Coupling size choice is based on:

- Flow/Pressure drop
- Operating pressure max 10 bar (check on the CS serie datasheet)
- Hose/Port size



2 Define your configuration = List your couplings (CS9 or CS12, total number of CS)

Eg: 6 x size 3/8"



3 Choose the multicoupling for your configuration

Use the overview table "Multi description" to chose the multicoupling for your listing/ configuration

*Eg: 6 x size 3/8" = choose GRE6-9
(6 lines with 6 CS9=3/8 couplings)*

Advices:

1. you can increase the size of couplings to have a better match with an existing configuration.
2. In case of too many lines, you may need to divide you configuration in different plates.

Technical features and options



Interchange

Stucchi internal specification



Available threads

BSP NPT hose barb or other port available on request



Mechanical connection

Internal cams and locking pins



Valving style

Non Spill type



Connection/disconnection system

Rotating the lever & lock the safety button



Operating pressure

Up to 10 bar/145 psi



Construction material and surface treatment

Body plates in aluminum alloy - anodizing surface treatment; lever in carbon steel with CRIII zinc plating. Cams and pins in high resistance carbon steel with nitriding (QPQ) treatment.



Flow rate

Up to 90 L/Min - 24 GPM



Nominal diameter available

3/8" (CS9) - 1/2" (CS12)



Temperature

- for oil, from -20° C to +100° C
(from -4° F to +212° F)
- for water, from +5° C + 60° C
(from +41° F to +140° F)



Connection under pressure

not allowed

Application



Agriculture



Oil&Gas



Industry



High Pressure



Cooling



Refrigeration



Earth Moving



Vehicles



Hydraulic Equipment



Chemical & Food Industry

Benefits

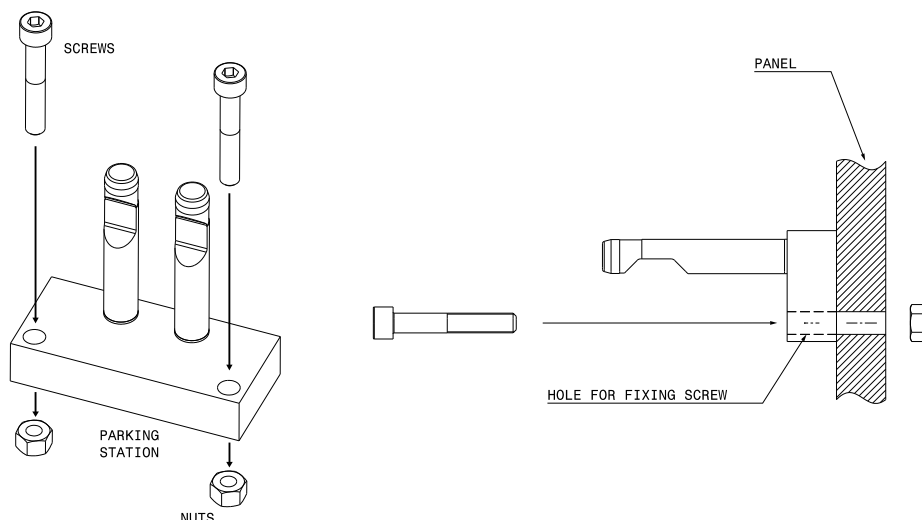
- Optimal solution for industrial application with a operating pressure up to 10 bar.
- Designed to be used for hydraulic oil-water/cooling-pneumatic application.
- Quick connection and disconnection of up to eighteen (18) hydraulic, water-cooling and pneumatic lines without any risk to incorrect connection of the lines.
- Ergonomic lever for easy connect/disconnect.
- Non spill valve design couplers reduces environmental issue of leakage.
- No risk of misalignment with guide pin design.
- Couplers mounted with snap rings for ease of installation or replacement.
- Easily mounted on new equipment or retrofit on pre-existing system.

Installation

Fix the fixed multicoupling on the machine using fixing screws as indicated in the drawing here below. The multiconnection may be installed with the coupling in vertical or horizontal position. After having assembled the couplings on the hoses, place the couplings in the holes of the multicouplings and lock them with the seeger rings. Please refer to correspondent CS coupling series datasheet for further information.

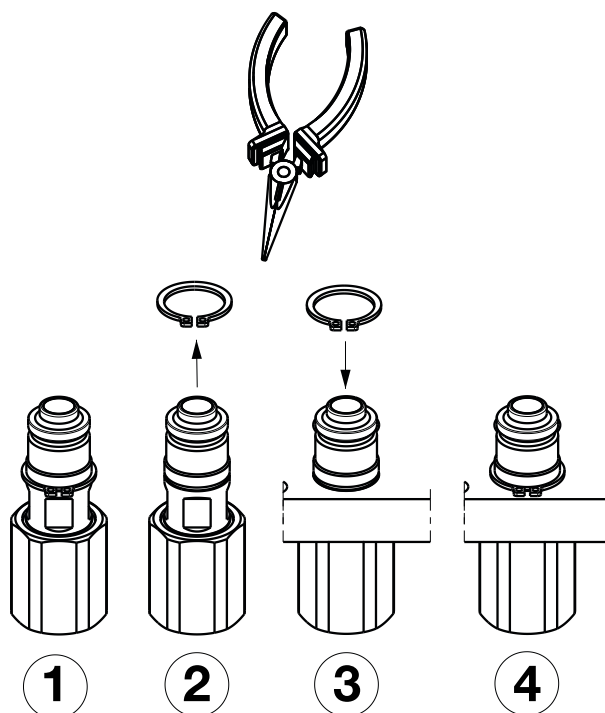
To install the parking station

To install the parking station ensure the space to assemble the parking station is enough to allow the correct connection & disconnection in an ergonomic way. Check the drawing of the parking station. Fix the parking station body on the machine or the frame of the attachment using fixing screws as indicated in the drawing of the corresponding parking station.



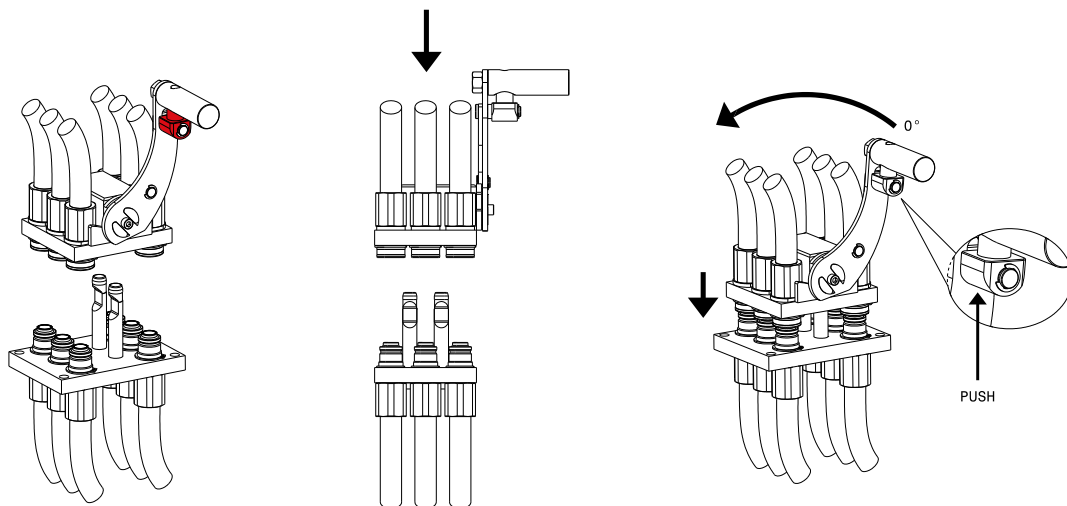
CS: How to install

- CS couplings are normally supplied already assembled on the Stucchi multiconnection or may be supplied as a spare part to be replaced on a Stucchi multiconnection.
- Use flexible hoses to connect the couplings; avoid to use rigid pipes as they could transmit excessive side load&vibration to the multiconnection.
- To assemble/disassemble the CS couplings on the multiconnection: take away the seeger ring from the groove, assemble the flexible hose on the end port, insert the coupling in the proper hole of the multiconnection; then assemble the seeger ring to lock the CS coupling in the multiconnection. See the sequence below 1... 4 and viceversa to disassemble.
- Be careful during the assembly of the seeger ring: if damaged replace it with a new one.
- Before to couple clean the flat mating surface of quick coupling to avoid the inclusion of dirt in the circuit.

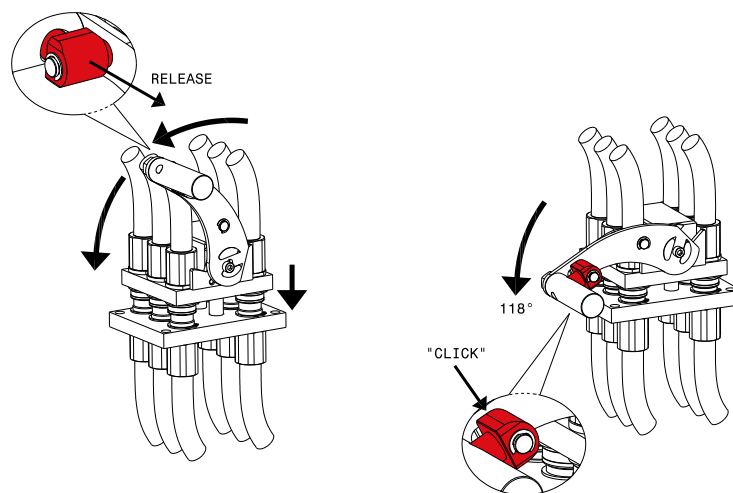


To connect

Release the pressure in the system. Before merging the two halves of the Stucchi multicoupling, ensure that the flat mating surfaces of the couplings are clean to avoid inclusion of dirt in the circuit. Handle needs to be in the 12 o'clock starting position. Align and insert guide pins on fixed half into the mating port on the mobile half until pins are fully inserted. Engage red locking mechanism on the handle (by pushing the red button) and move handle in a downward direction.

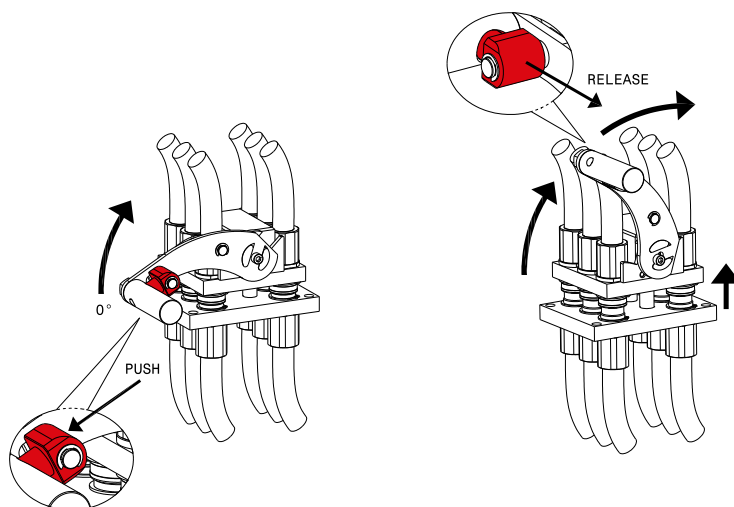


After a short rotation release the red button;
Continue to rotate till the safety lock automatically engage itself in the final position.
Now the multicoupling is coupled and ready to work.

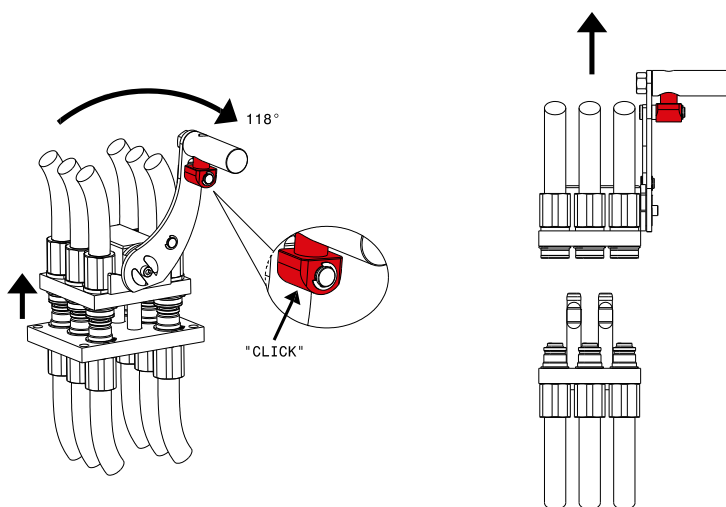


To disconnect

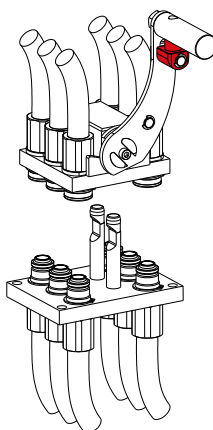
Release the pressure in the system. To disconnect reverse process: engage the locking mechanism (by pushing red button) and raise handle in upward direction. After short rotation release the red button.



Continue to rotate till the safety lock automatically engage itself in the 12 o'clock position. Pull out mobile half from fixed half pins. (Pay attention during the pulling phase not to make the mobile half fall down causing injury).



Now the multicoupling is uncoupled.





WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.

Never connect or disconnect with dynamic pressure (e.g. pump on).

Do not use the female coupling disconnected with high impulse pressure.

Do not couple-uncouple with flow and/or pressure in the circuit.

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).

Check the maximum allowable operating pressure of the port in use.

Make sure that the medium used is compatible with seal and material as indicated for each series.

In case of doubt please contact Stucchi Technical Support.

It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on Stucchi website (www.stucchi.it) before selecting or using Stucchi products.

Do not force the lever without pushing the red safety button.

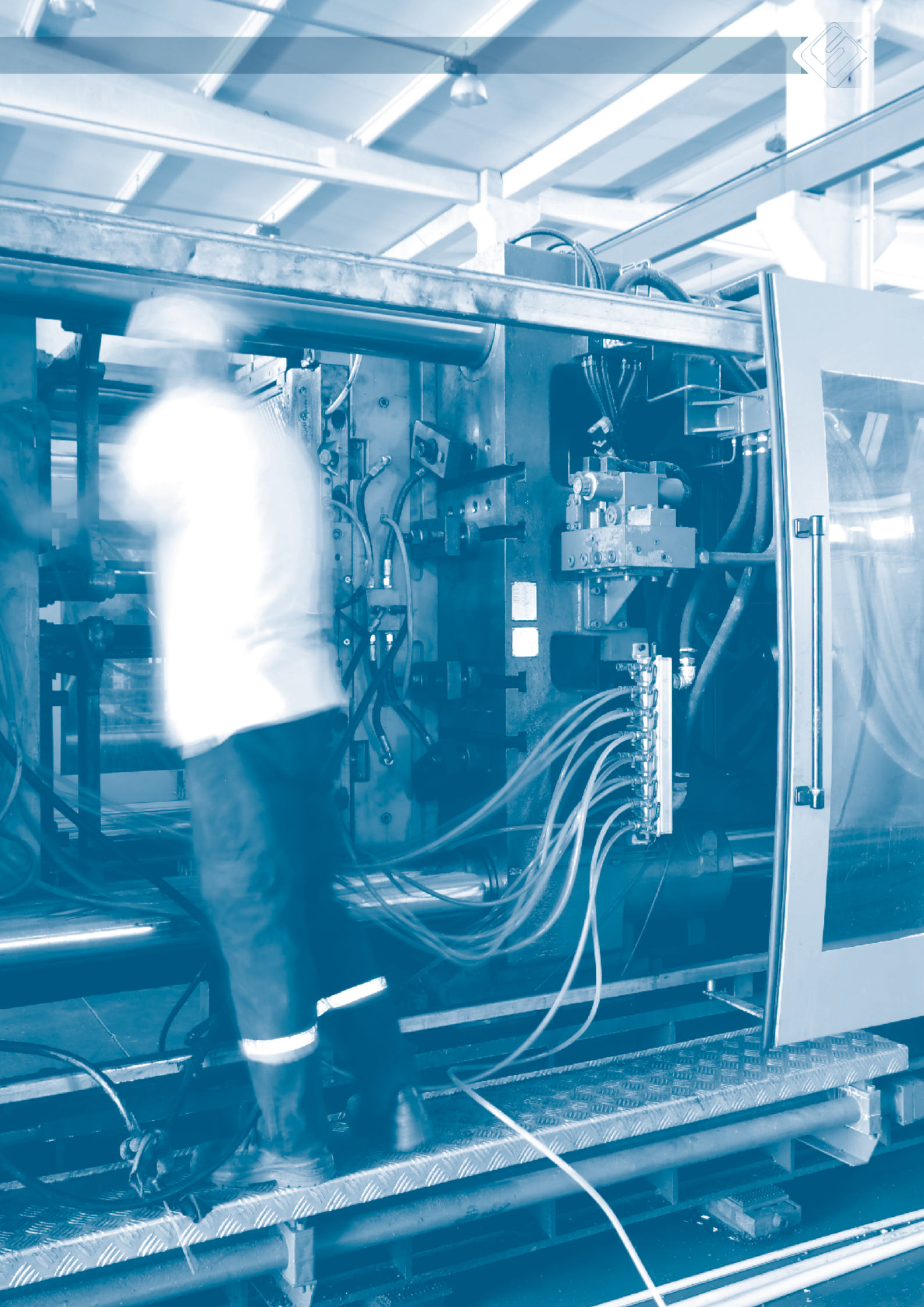
Do not use extensions or other tools to ease the rotating of the lever.

Do not connect the fixed half with the mobile half if dirt or other material (tool, finger) is between them.

Do not modify, disassemble or damage the product, the lever or safety lock system.

Do not use GRE multiconnection for high pressure and high temperature application.

Please refer to CS coupling datasheet & single GRE multiconnection datasheet.



LOW OPERATING
PRESSURE

Multicouplings

GRE **162**



Valving style: **Flat face**
Interchange: **Stucchi interface**
Available sizes: **From 3/8" to 1/2"**
Operating pressure: **Up to 10 bar**
Flow rate: **Up to 90 L/Min**
Material: **Anodized aluminum**
Connection system: **Lever**
Connection under pressure: **Not allowed**

Couplings

CS **175**



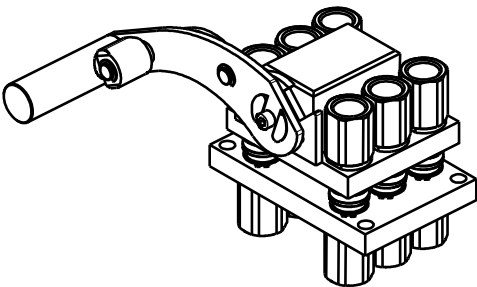
Valving style: **Flat face**
Interchange: **Stucchi interface**
Available sizes: **From 3/8" to 1/2"**
Operating pressure: **Up to 10 bar**
Flow rate: **Up to 90 L/Min**
Connection system: **By multicoupling**
Connection under pressure: **Not allowed**

GRE6 6A

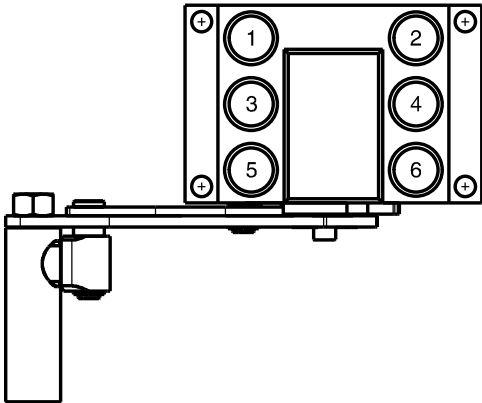
Previous description	CS9 (A)	CS12 (B)
Body size	3/8"	1/2"
GRE6-9	6	



DRAWING



CONFIGURATIONS

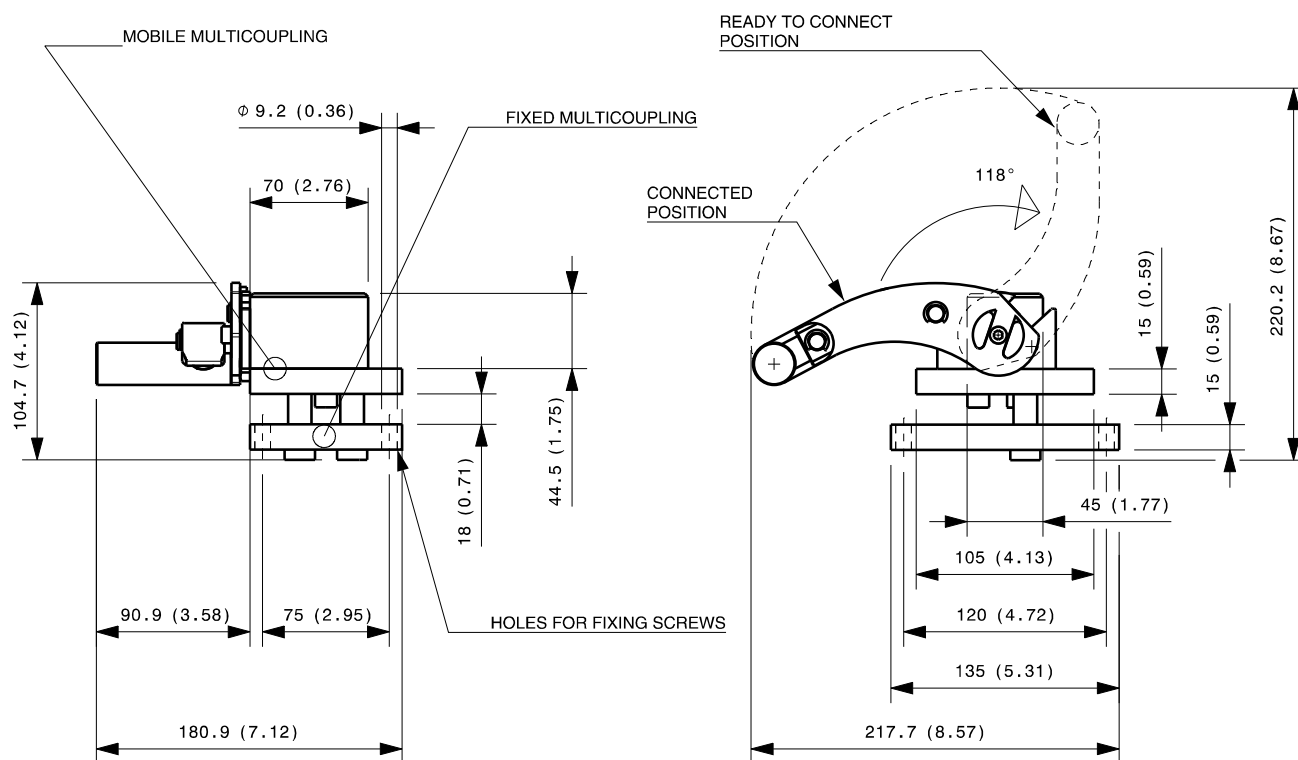


Possible configurations	
Pos	Coupling size
ALL	CS9

MultiCoupling spare parts (couplings not included)	
Code	Name
806000024	MULTI FIX EMPTY GRE6 6A
806000025	MULTI MOBILE EMPTY GRE6 6A
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701059	KIT NR.1 COMPLETE LEVER GROUP GRE

Fixed and mobile multicoupling

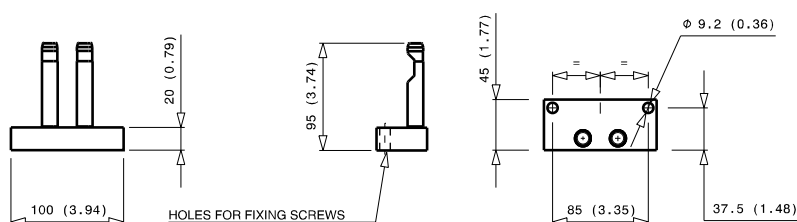
0,6 Kg and 1,5 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



GRE6 6B

Previous description

Body size

CS9 (A)
3/8"

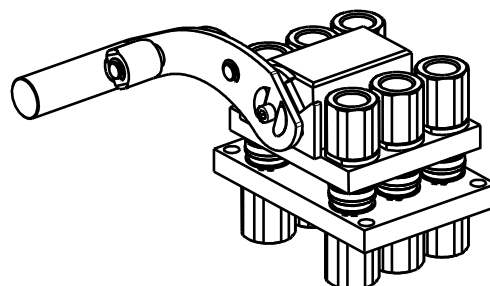
CS12 (B)
1/2"

GRE6-12

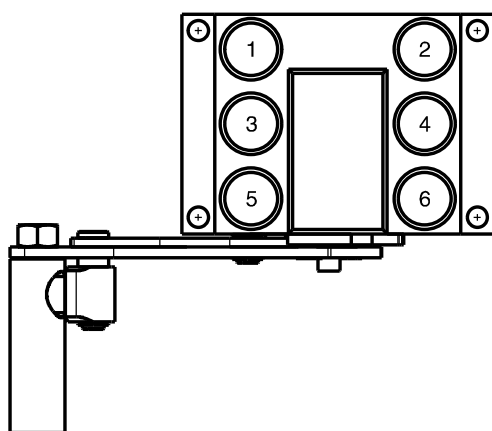


Stucchi®

DRAWING



CONFIGURATIONS



Possible configurations

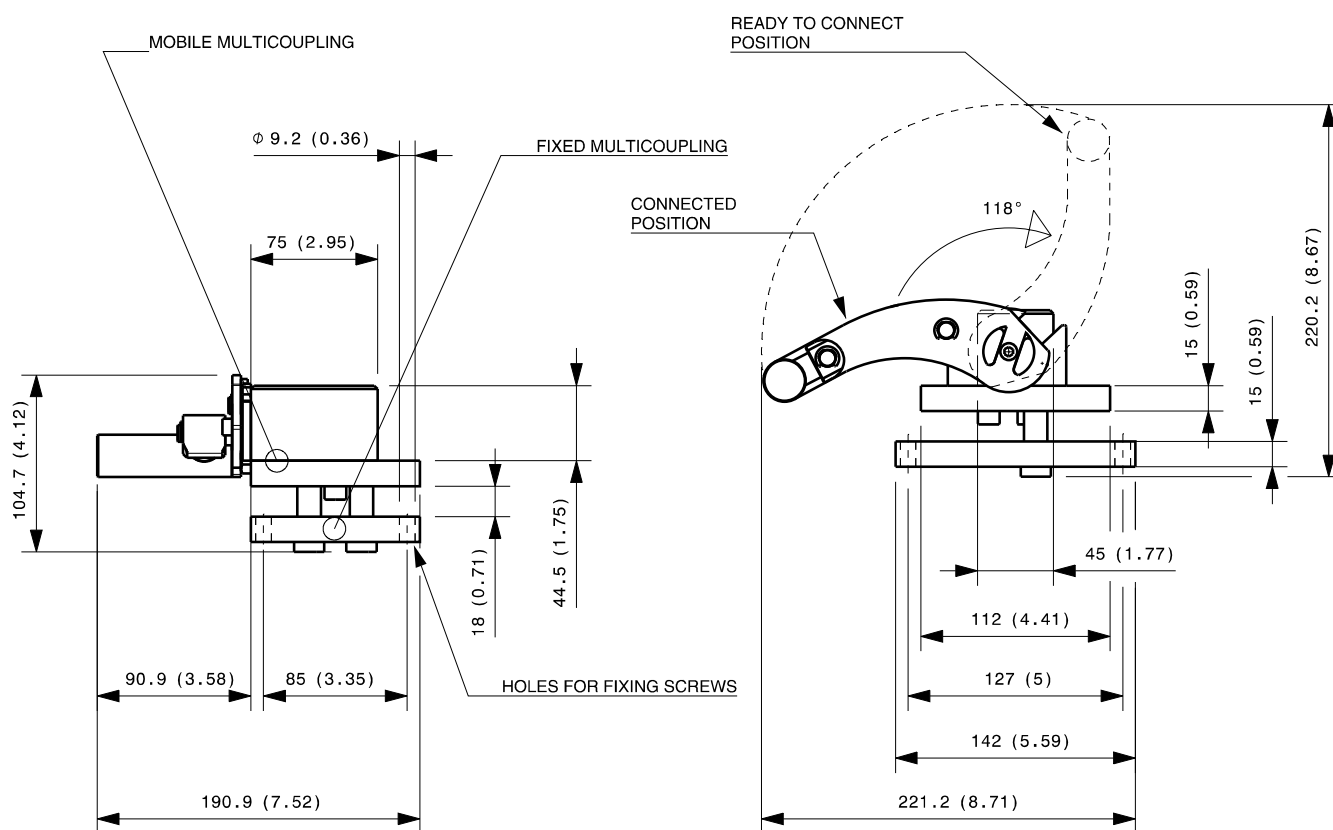
Pos	Coupling size
ALL	CS12

MultiCoupling (couplings included)		
Code	Name	Description
870020005	MULTI COMPLETE GRE6 12B	6 CS12 1/4 BSP
870020105	MULTI FIX GRE6 6B	6 CS12 1/4 BSP
870020111	MULTI FIX GRE6 4B	4 CS12 1/2 BSP
870020118	MULTI FIX GRE6 6B	6 CS12 1/2 BSP
870020205	MULTI MOBILE GRE6 6B	6 CS12 1/4 BSP
870020211	MULTI MOBILE GRE6 4B	4 CS12 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000090	MULTI FIX EMPTY GRE6 6B
806000091	MULTI MOBILE EMPTY GRE6 6B
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701059	KIT NR.1 COMPLETE LEVER GROUP GRE

Fixed and mobile multicoupling

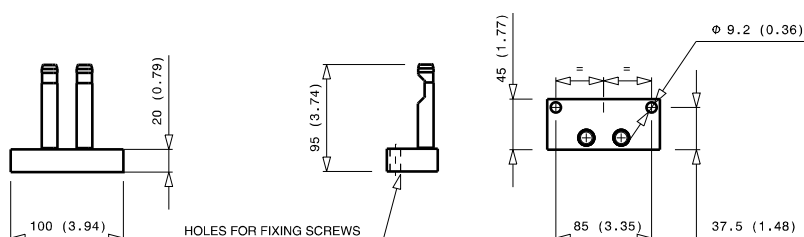
0,7 Kg and 1,6 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



GRE12 12A

Previous description

Body size

CS9 (A)
3/8"

CS12 (B)
1/2"

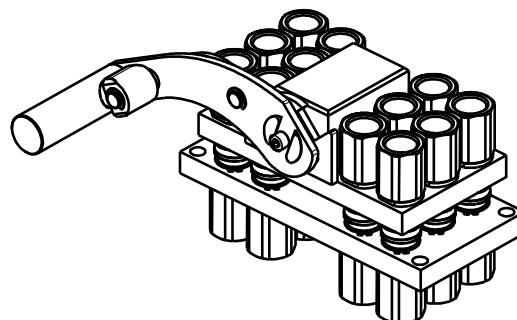
GRE12-9

12

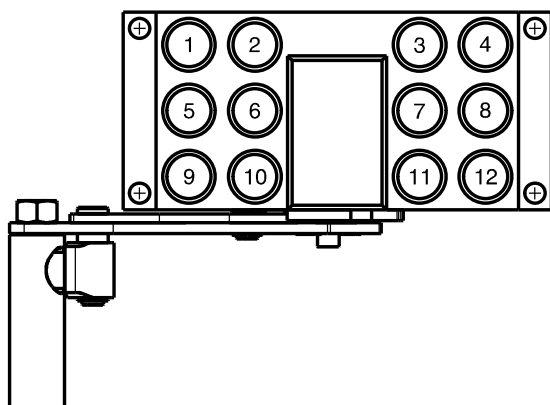


Stucchi®

DRAWING



CONFIGURATIONS



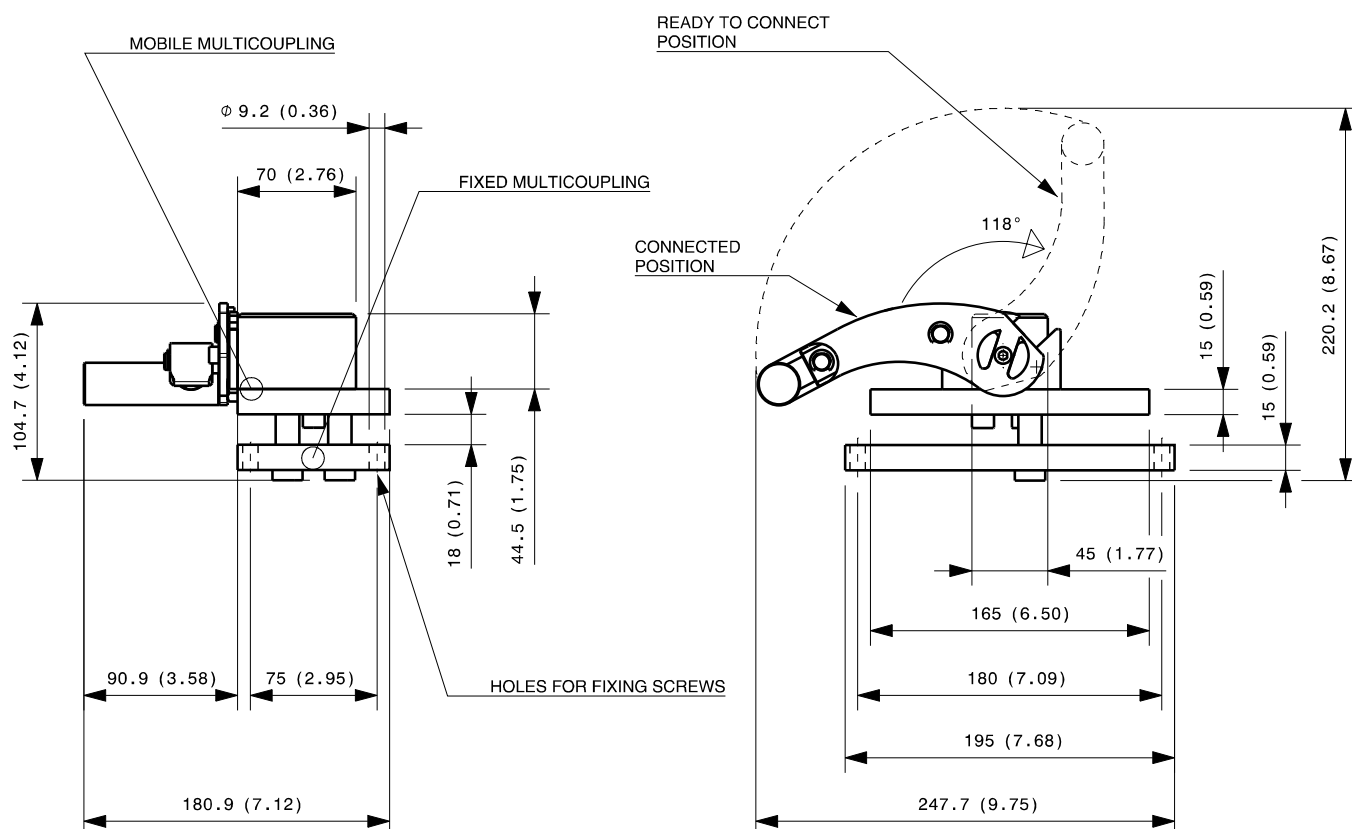
Possible configurations	
Pos	Coupling size
ALL	CS9

MultiCoupling (couplings included)		
Code	Name	Description
870020010	MULTI COMPLETE GRE12 12A	12 CS9 3/8 NPT
870020112	MULTI FIX GRE12 8A	8 CS9 1/2 BSP
870020208	MULTI MOBILE GRE12 12A	12 CS9 3/8 NPT
870020212	MULTI MOBILE GRE12 8A	8 CS9 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000020	MULTI FIX EMPTY GRE12 12A
806000021	MULTI MOBILE EMPTY GRE12 12A
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701059	KIT NR.1 COMPLETE LEVER GROUP GRE

Fixed and mobile multicoupling

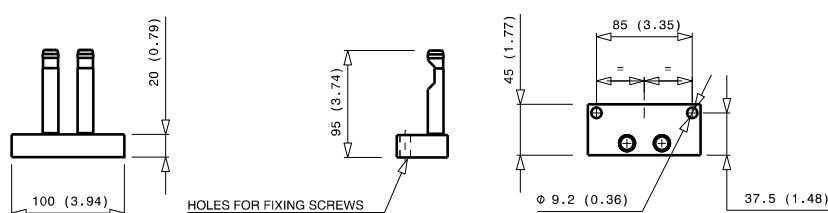
0,7 Kg and 1,6 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



GRE12 12B

Previous description

Body size

GRE12-12

CS9 (A)
3/8"

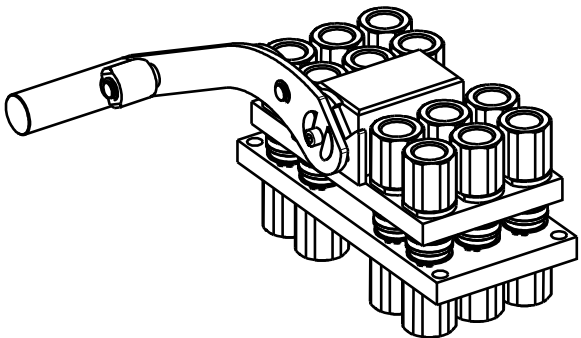
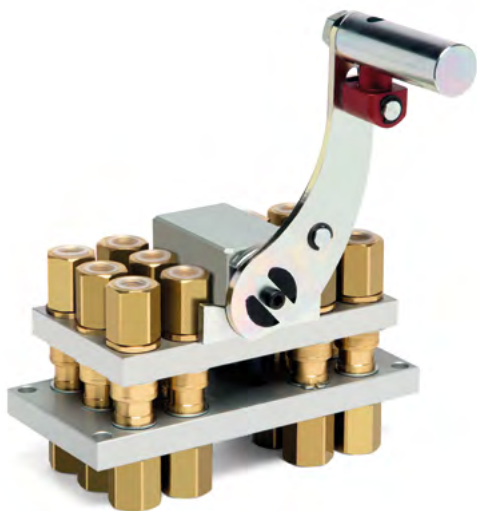
CS12 (B)
1/2"

12

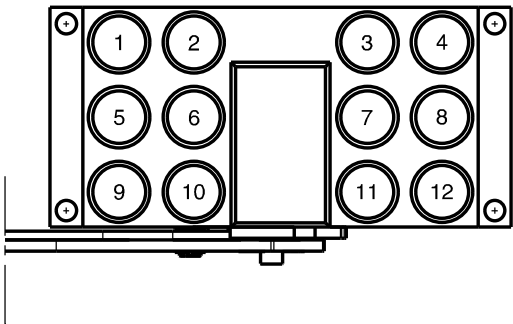


Stucchi®

DRAWING



CONFIGURATIONS



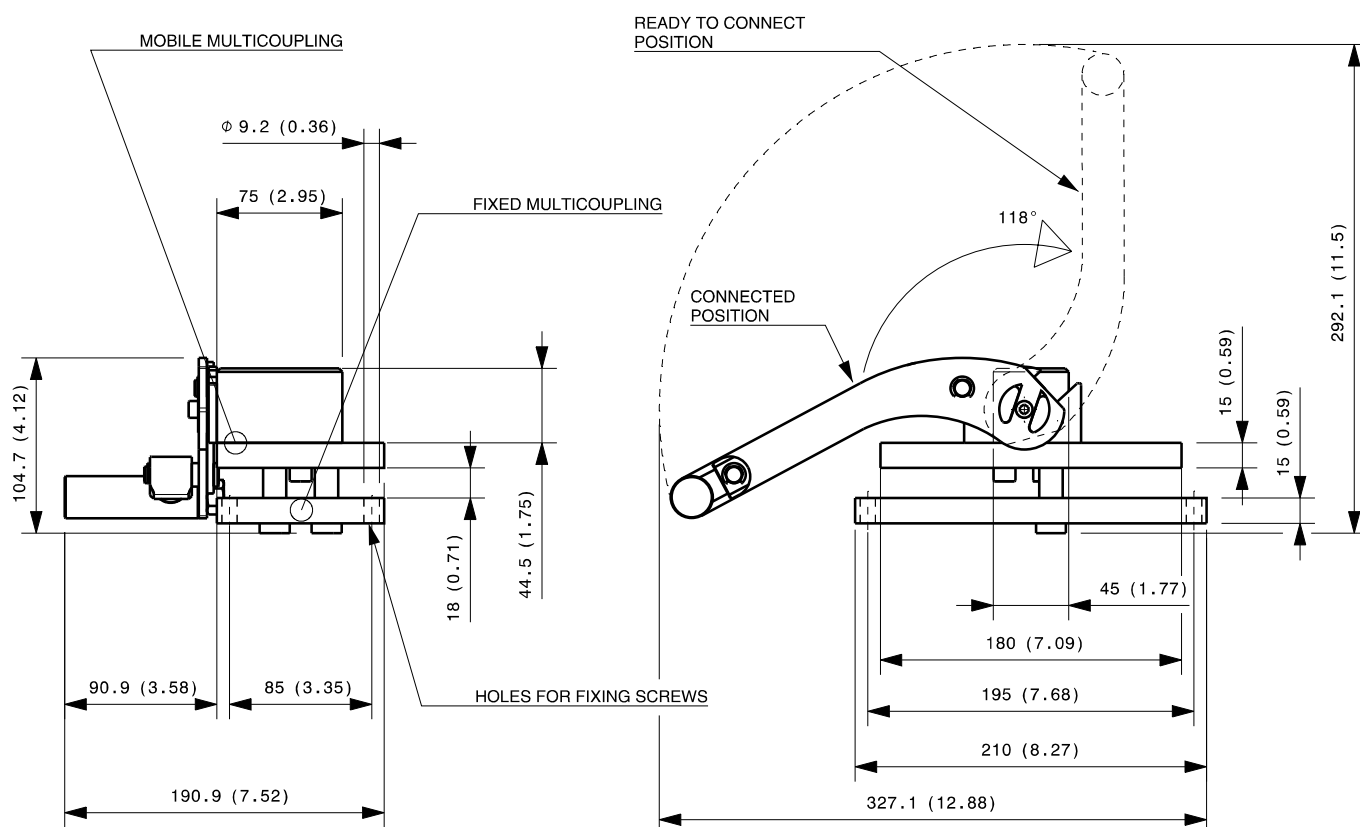
Possible configurations	
Pos	Coupling size
ALL	CS12

MultiCoupling spare parts (couplings not included)

Code	Name
806000026	MULTI FIX EMPTY GRE12 12B
806000027	MULTI MOBILE EMPTY GRE12 12B
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701078	KIT NR.1 COMPLETE LEVER GROUP GRE

Fixed and mobile multicoupling

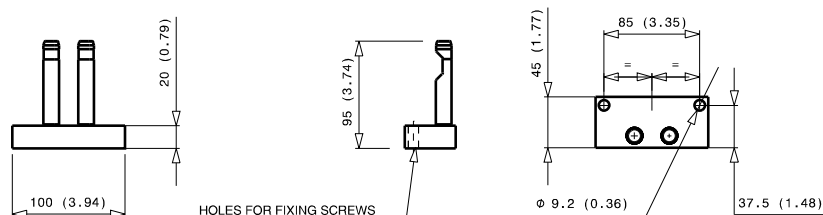
0,8 Kg and 1,8 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



GRE18 18A

Previous description

Body size

CS9 (A)

3/8"

CS12 (B)

1/2"

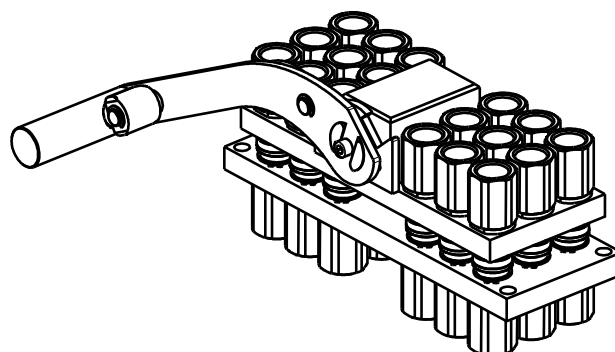
GRE18-9

18

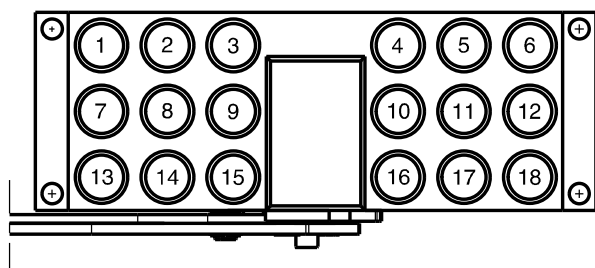


Stucchi®

DRAWING



CONFIGURATIONS



Possible configurations

Pos	Coupling size
ALL	CS9

MultiCoupling (couplings included)

Code	Name	Description
870020009	MULTI COMPLETE GRE18 18A	18 CS9 3/8 NPT

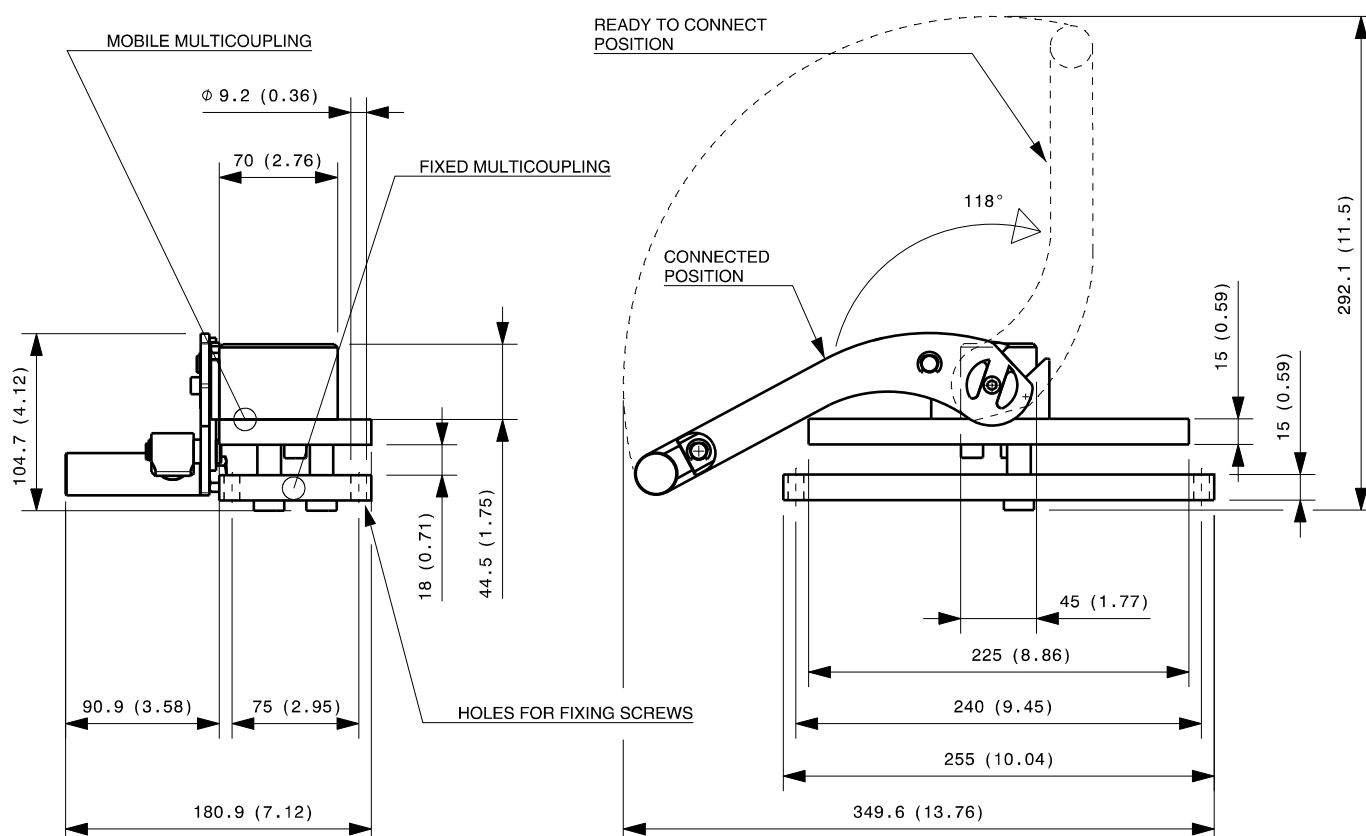
MultiCoupling spare parts (couplings not included)

Code	Name
806000022	MULTI FIX EMPTY GRE18 18A
806000023	MULTI MOBILE EMPTY GRE18 18A
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701078	KIT NR.1 COMPLETE LEVER GROUP GRE

Custom configurations
available upon request

Fixed and mobile multicoupling

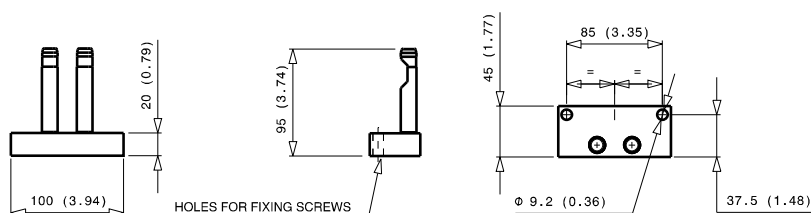
0,9 Kg and 1,8 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



GRE18 18B

Previous description

Body size

CS9 (A)

3/8"

CS12 (B)

1/2"

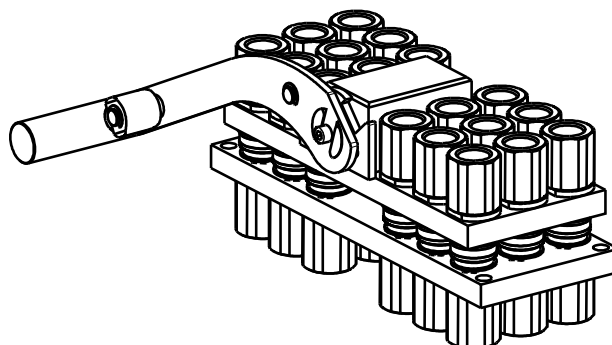
GRE18-12

18



Stucchi®

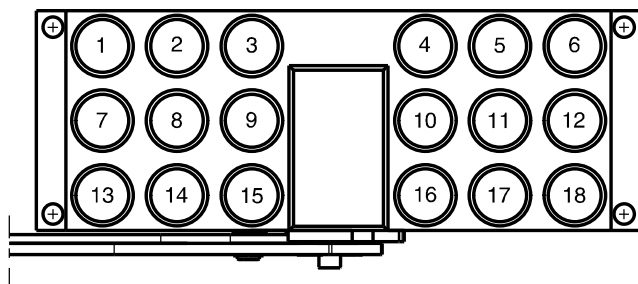
DRAWING



CONFIGURATIONS

Possible configurations

Pos	Coupling size
ALL	CS12



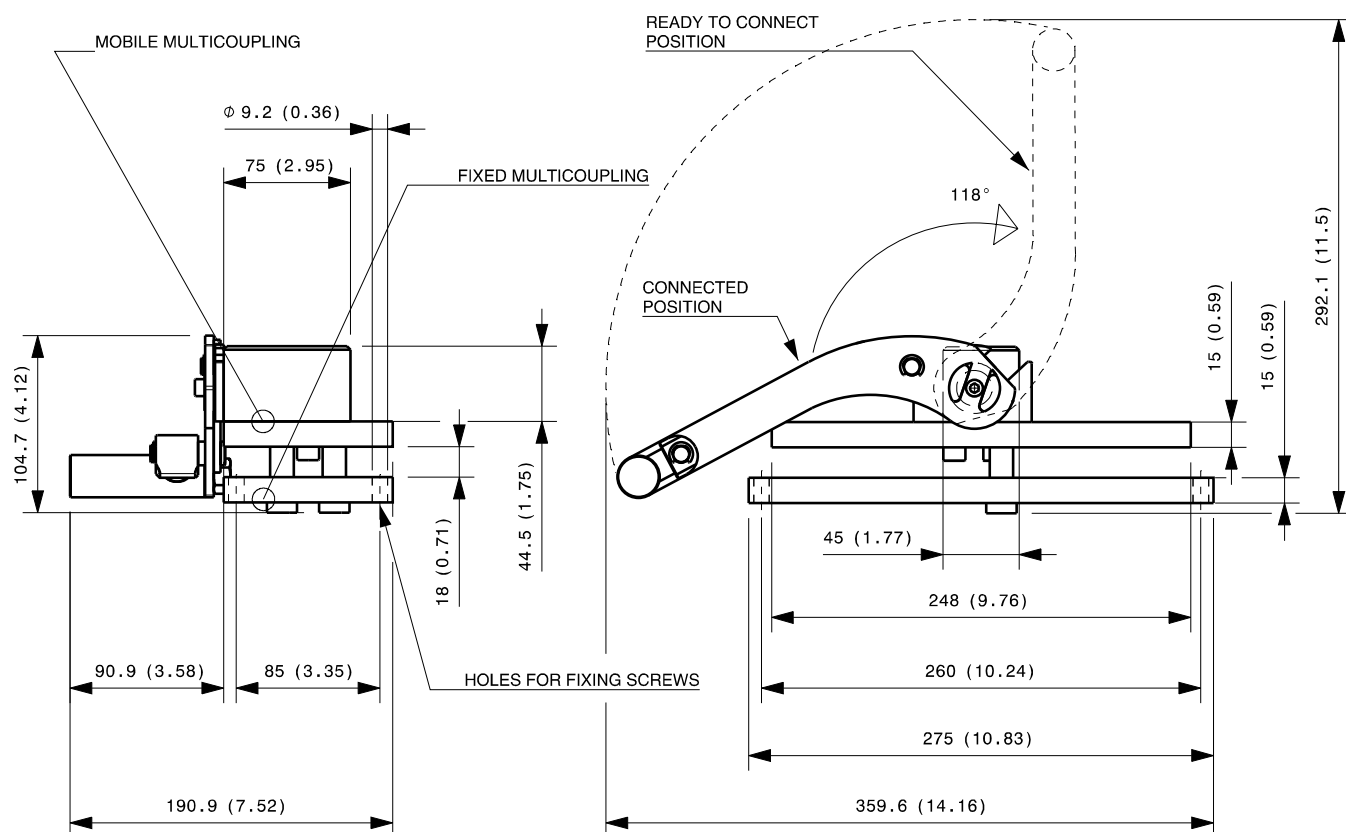
MultiCoupling spare parts (couplings not included)

Code	Name
806000028	MULTI FIX EMPTY GRE18 18B
806000029	MULTI MOBILE EMPTY GRE18 18B
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701078	KIT NR.1 COMPLETE LEVER GROUP GRE

Custom configurations
available upon request

Fixed and mobile multicoupling

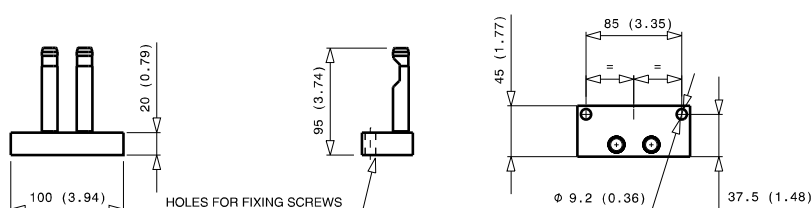
1 Kg and 2 Kg

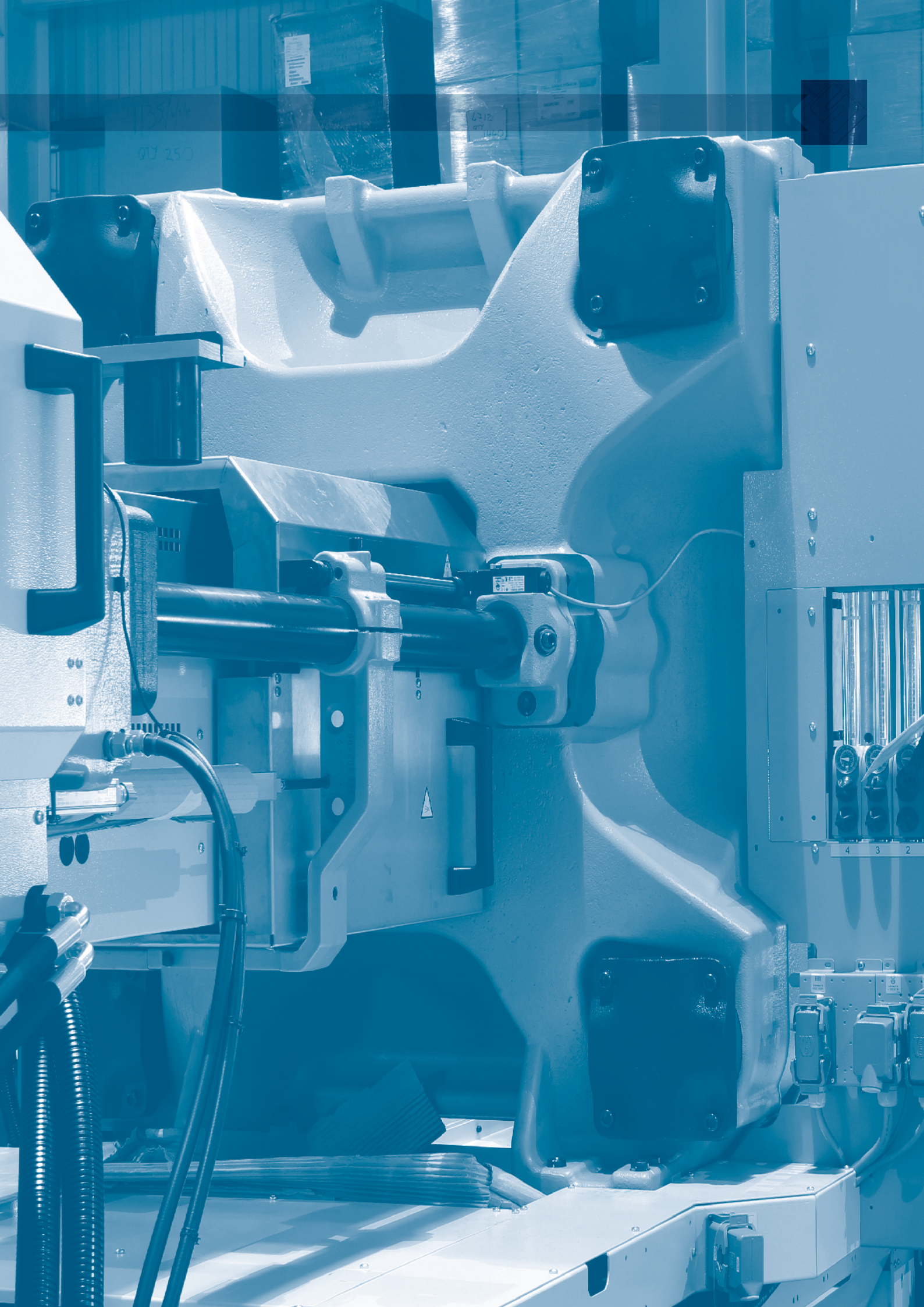


Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg







TECHNICAL FEATURES AND OPTIONS



Interchange

Stucchi profile
(only for Stucchi
multicouplings)



Sealing description

Nitrile NBR



Connection system

By multicoupling



Available sizes

from 3/8"
to 1/2"



Material

Brass



Available threads

BSP - NPT



Operating pressure

Up to 10 bar



Locking mechanism

PIN/CAM



Flow rate

Up to 90 L/Min



Temperature (°C)

-20° / +100°



Valving style

Flat face



Connection under pressure

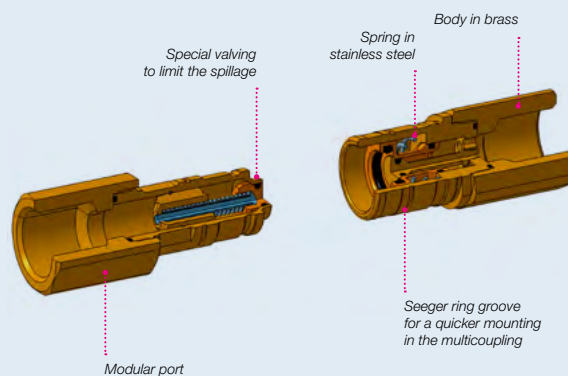
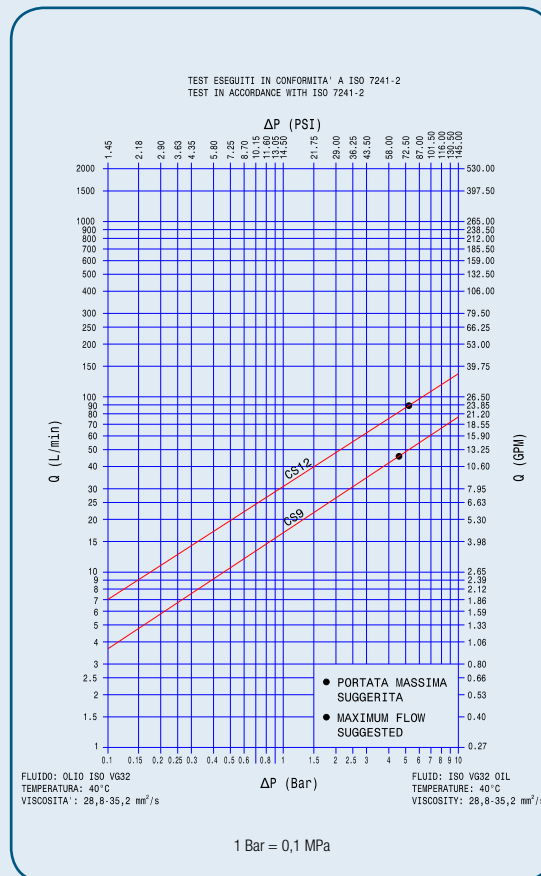
Connection: not allowed
Disconnection: not allowed.

BENEFITS

- The solution to conduct low pressure hydraulic oil, pneumatic or water lines.
- Valving design helps to reduce the inclusion of contamination to the circuit.
- Minimal fluid loss during connection / disconnection, reducing fluid loss to the environment.
- Minimal air inclusion during connection / disconnection, enhancing correct function of the circuit.
- Linear flow reduces internal turbulence and pressure drop, maintaining circuit efficiency in the entire system.
- Good corrosion resistance thanks to brass components construction
- The modular design allows flexibility with the range of port configurations (hose barb available on request).
- Allows to conduct in the same multiconnection different fluids: hydraulic oil, water, air.
- Couplings are assembled with a seeger ring for a quicker mounting or service on the multiconnection.
- Compact slim design.
- Safe and simple to use.

HOW TO USE

- See instructions at page 156



MAIN APPLICATIONS



Agriculture



Oil & Gas



Industry



High Pressure



Cooling



Refrigeration



Earth Moving



Vehicles



Hydraulic Equipment



Chemical & Food Industry

PERFORMANCE

Size		Series/Size	Max. flow suggested		Spillage*
Inch	mm (ISO)		l/min	GPM	ml
3/8	-	CS9	46	12.2	0.03
1/2	-	CS12	90	23.8	0.04

Size	Series/Size	Max. operating pressure						Burst pressure					
		Coupled		Male		Female		Coupled		Male		Female	
Inch		MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/8	CS9	1	145	1	145	1	145	4	580	4	580	4	580
1/2	CS12	1	145	1	145	1	145	4	580	4	580	4	580

*Spillage is an indicative value of the fluid loss per couple-uncouple cycle.

Temperature range:

Seals in NBR (Nitrile) for water or water & glycol: from +5° C to +60° C
(from +41° F to +140° F)

Tests:

The couplings have been tested in according with ISO 7241-2.

WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.

Never connect or disconnect with dynamic pressure (e.g. pump on).

Do not use the female coupling disconnected with high impulse pressure.

Do not couple-uncouple with flow and/or pressure in the circuit.

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).

Check the maximum allowable operating pressure of the port in use.

Make sure that the medium used is compatible with seal and material as indicated for each series.

In case of doubt please contact Stucchi Technical Support.

It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on Stucchi website (www.stucchi.it) before selecting or using Stucchi products.

Please read carefully General instructions for selection and use of the products in our master catalogues.

Do not couple-uncouple with flow and/or dynamic pressure in the circuit.

CS series is intended to be used only on Stucchi Multiconnections. Do not use the CS coupling on a Custom-made multiconnection or other device different than a Stucchi Multiconnection.

Do not disassemble, misuse, modify or damage the products.

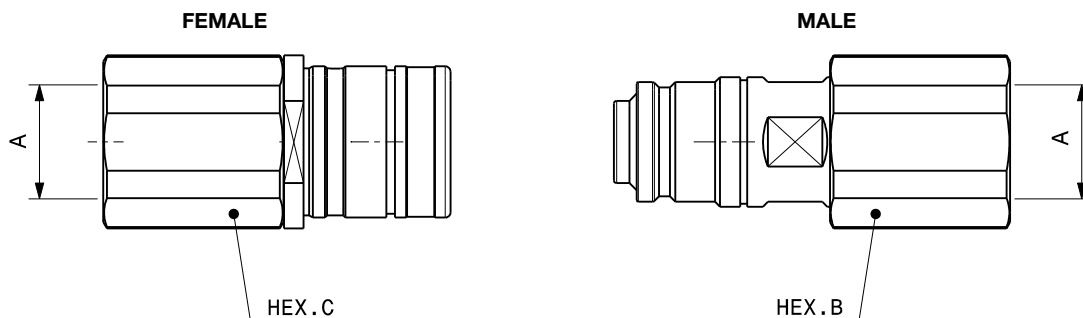
CS series has been tested & approved with hydraulic oil. CS serie is intended to be used only with not dangerous fluids (water, hydraulic oil, air at low temperature/low pressure).

Do not use CS couplings with dangerous, inflammable or explosive fluids (steam, acids, very hot/flammable oils etc.).

Do not use CS couplings with very hot fluids (limits given by NBR seal compatibility & temperature range).

Do not use CS couplings with fluids below the freezing point to avoid damages due to ice expansion and consequential extrusion of the valving

SPECIFICATIONS



Port description: FEMALE THREAD BSPP (ISO 1179-1)

Body size	Descriptive Code	Item Code	Port (A)		Hex	
					mm	inch
3/8"	F CSF9BN 1/2 BSP	Female 802100006	1/2"	C	27,0	1,06
	M CSM9BN 1/2 BSP	Male 802100007		B	27,0	1,06
1/2"	F CSF12BN 1/4 BSP	Female 802100000	1/4"	C	30,0	1,18
	M CSM12BN 1/4 BSP	Male 802100001		B	30,0	1,18
1/2"	F CSF12BN 1/2 BSP	Female 802100008	1/2"	C	30,0	1,18
	M CSM12BN 1/2 BSP	Male 802100009		B	30,0	1,18

Port description: FEMALE THREAD NPT (ANSI B1.20.1)

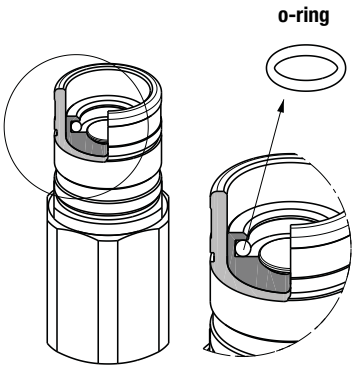
Body size	Descriptive Code	Item Code	Port (A)		Hex	
					mm	inch
3/8"	F CSF9BN 3/8 NPT	Female 802101000	3/8"	C	24,0	0,94
	M CSM9BN 3/8 NPT	Male 802101003		B	24,0	0,94
1/2"	F CSF12BN 1/2 NPT	Female 802101004	1/2"	C	30,0	1,18
	M CSM12BN 1/2 NPT	Male 802101005		B	30,0	1,18



SPARE KIT SEAL FOR FEMALE

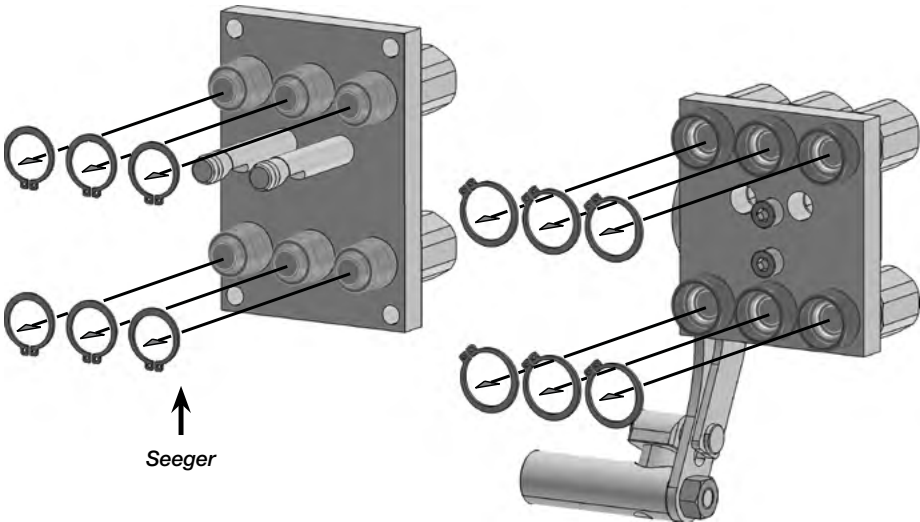
Repair kit		
Body Size	Description	Part Number
3/8"	KIT NR.10 EXTERNAL OR CSF9	815701060
1/2"	KIT NR.10 EXTERNAL OR CSF12	815701062

O-Ring in Nitrile
(kit composed of 10 O-Ring for female coupling; 1 female = 1 O-Ring)



REPAIR SEEGER

Repair kit seeger	
Part Number	Description
815701103	KIT NR.10 SEEGER RING FOR CSF9-CSM12
815701104	KIT NR.10 SEEGER RING FOR CSM9
815701105	KIT NR.10 SEEGER RING FOR CSF12



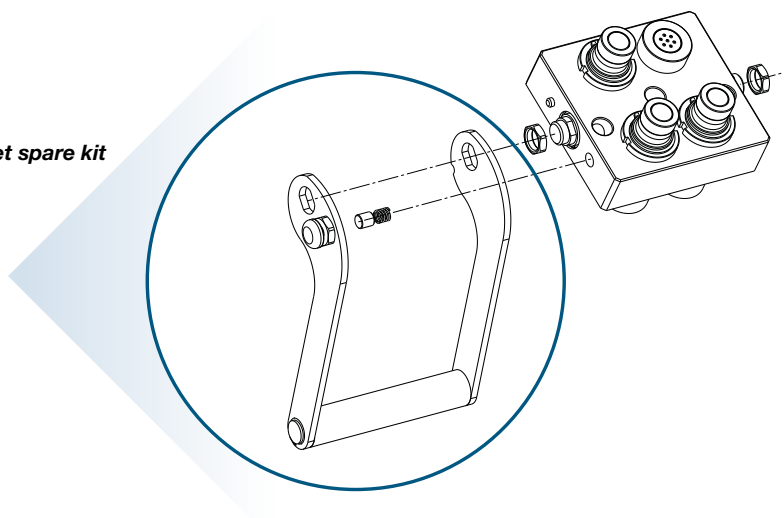


DP Series

Complete lever set spare kit

Composed of:

Lever
spring
Pin
Knob
Seeger ring
Red button
Locking pin



How to replace it

Unscrew & disassemble the lever group from the fixed multiconnection, then disassemble the seeger ring to extract the knob. Reassemble the new kit with the same sequence vice-versa. Threads of the lever set have to be reassembled with Loctite (2701 Type) and screw the tread with proper torque.

Energized spring could come out from the button, be careful.

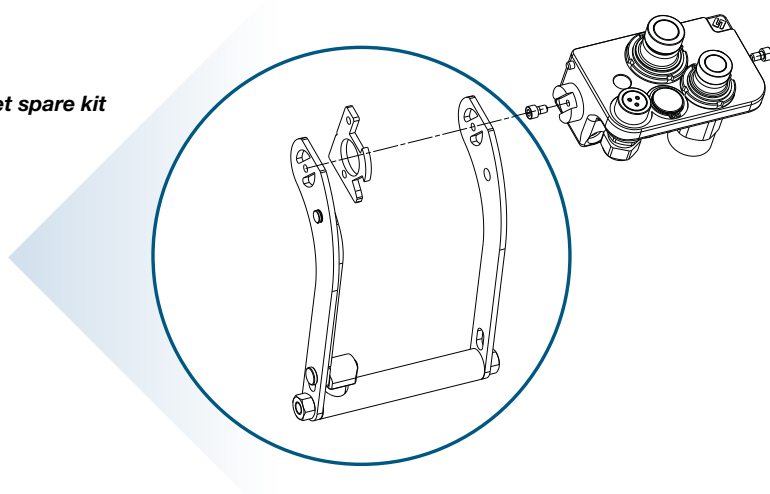
Pay attention to the button internal pin - is pushed by a spring! Be careful.

GR Series

Complete lever set spare kit

Composed of:

Little multicoupling
Lever
Wedge
Pin
Seeger ring
Knob
Nut
Red button
Internal spring
Locking pin



How to replace it

Unscrew the lever group from the fixed multiconnection, then take away the little multicoupling. Reassemble the new kit with the same sequence vice-versa. Threads of the lever set have to be reassembled with Loctite (2701 Type) and screw the thread with proper torque.

Energized spring could come out from the button, be careful.

Pay attention to the button internal pin - is pushed by a spring! Be careful.

GRE Series

Complete lever set spare kit

Composed of:

Lever

spring

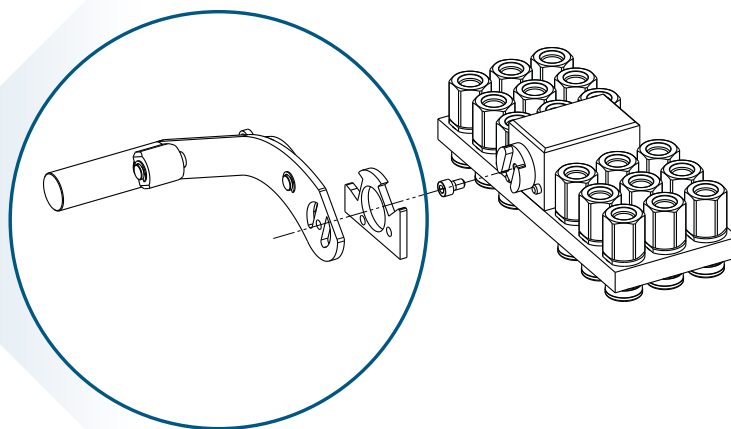
Pin

Knob

Seeger ring

Red button

Locking pin



How to replace it

Unscrew the lever group from the mobile multiconnection, then take away the little multicoupling. Reassemble the new kit with the same sequence vice-versa. Threads of the lever set have to be reassembled with Loctite (2701 Type) and screw the thread with proper torque.

Energized spring could come out from the button, be careful.

Pay attention to the button internal pin - is pushed by a spring! Be careful.



WARNING

Energized spring could come out from the button, be careful!

Here above instruction has to be considered as general indication how to replace spare kit on multicoupling, not a complete instruction of use. Please ask the specific instruction by contacting Stucchi Customer Service for support at info@stucchi.it

Notice: all the nut&threads of the lever set have to be reassembled with Loctite (2701 Type) before screwing. All the threads have to be screwed with proper torque value. The code of the lever spare kit is on the multicoupling datasheet

ISO16028

A



Valving style: **Flat face**
 Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
 Available sizes: **From 1/8" to 1-1/2"**
 Configuration: **Modular construction**
 Operating pressure: **Up to 420 bar**
 Flow rate: **Up to 750 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Push**
 Connection under pressure: **Not allowed**

FIRG-Q



Valving style: **Flat face**
 Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
 Available sizes: **From 1/4" to 2"**
 Operating pressure: **Up to 300 bar**
 Flow rate: **Up to 1000 L/Min**
 Material: **Internal parts in stainless steel**
 Connection system: **Push**
 Connection under pressure: **Not allowed**

FL



Valving style: **Flat face**
 Interchange: **ISO 16028 NFPA T3.20.15 HTMA (size 3/8")**
 Available sizes: **From 1/8" to 2"**
 Operating pressure: **Up to 350 bar**
 Flow rate: **Up to 1000 L/Min**
 Material: **Stainless steel (AISI 316L)**
 Connection system: **Push**
 Connection under pressure: **Not allowed**

A-HD



Valving style: **Flat face**
 Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
 Available sizes: **From 3/8" to 1-1/2"**
 Operating pressure: **Up to 350 bar**
 Flow rate: **Up to 90 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Push**
 Connection under pressure: **Female side, other side to drain**

FIRG



Valving style: **Flat face**
 Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
 Available sizes: **From 1/4" to 2"**
 Operating pressure: **Up to 300 bar**
 Flow rate: **Up to 1000 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Push**
 Connection under pressure: **Not allowed**

AX



Valving style: **Flat face**
 Interchange: **ISO 16028 NFPA T3.20.15 HTMA (size 3/8")**
 Available sizes: **From 1/4" to 1"**
 Configuration: **Modular construction**
 Operating pressure: **Up to 350 bar**
 Flow rate: **Up to 378 L/Min**
 Material: **Stainless steel (AISI 316L)**
 Connection system: **Push**
 Connection under pressure: **Not allowed**

APM



Valving style: **Flat face**
 Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
 Available sizes: **From 3/8" to 1-1/2"**
 Operating pressure: **Up to 350 bar**
 Flow rate: **Up to 750 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Push**
 Connection under pressure: **Male side, other side to drain**

SATURN



Valving style: **Flat face**
 Interchange: **ISO 16028**
(for the couplings)
 Available sizes: **From 1/2" to 3/4"**
 Operating pressure: **Up to 350 bar**
 Flow rate: **Up to 200 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Push**
 Connection under pressure: **One side+disconnection allowed (using knob)**

STUCCHI SOLUTIONS



VEP-P

Valving style: **Flat face**
 Interchange: **Stucchi profile**
 Available sizes: **From 1/4" to 2"**
 Operating pressure: **Up to 600 bar**
 Flow rate: **Up to 1000 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Screw**
 Connection under pressure: **Both sides, easy connection + disconnection allowed**



VEP-HD

Valving style: **Flat face**
 Interchange: **Stucchi profile**
 Available sizes: **From 3/4" to 1-1/2"**
 Operating pressure: **Up to 600 bar**
 Flow rate: **Up to 750 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Screw**
 Connection under pressure: **Both sides, easy connection + disconnection allowed**



VP-P

Valving style: **Flat face**
 Interchange: **Stucchi profile**
 Available sizes: **From 1/4" to 1-1/2"**
 Operating pressure: **Up to 600 bar**
 Flow rate: **Up to 750 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Screw**
 Connection under pressure: **Both sides, easy connection + disconnection allowed**

HIGH PRESSURE

A-HP



Valving style: **Flat face**
 Interchange: **Stucchi profile**
 Available sizes: **From 1/8" to 3/8"**
 Operating pressure: **Up to 720 bar**
 Flow rate: **Up to 46 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Push**
 Connection under pressure: **Not allowed**

IV-HP



Valving style: **Ball**
 Interchange: **Similar Couplings (High Pressure)**
 Available sizes: **From 1/4" to 3/8"**
 Operating pressure: **Up to 700 bar**
 Flow rate: **Up to 23 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Screw**
 Connection under pressure: **Not allowed**

NEW



Stucchi Interchange

Select the Brand, the Series, the Part number and Stucchi Interchange will give you the equivalent Stucchi product.

Fill in the form on interchange.stucchi.it and discover the power of this tool.



'Easy connection' is the Stucchi solution for manual connection with residual pressure in the circuit. The male couplings have a triple valve system that allows the easy connection of couplings with internal residual pressure, in safe condition and without fluid loss.



Specific dimensions are fire tested and Lloyd certified in accordance with API 16D and the EUB Directive #36.

For complete technical information please contact Stucchi technical support.



ISO B



IRB

Valving style: **Poppet**
 Interchange: **ISO 7241-1 "B"**
 Available sizes: **From 1/8" to 1"**
 Operating pressure: **Up to 350 bar**
 Flow rate: **Up to 200 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Single acting sleeve**
 Connection under pressure: **Not allowed**

IRBX



Valving style: **Poppet**
 Interchange: **ISO 7241-1 "B"**
 Available sizes: **From 1/8" to 1"**
 Operating pressure: **Up to 250 bar**
 Flow rate: **Up to 200 L/Min**
 Material: **Stainless steel (AISI 316L) Retainer in brass**
 Connection system: **Single acting sleeve**
 Connection under pressure: **Not allowed**

IRBO



Valving style: **Poppet**
 Interchange: **ISO 7241-1 "B"**
 Available sizes: **From 1/8" to 1"**
 Operating pressure: **Up to 200 bar**
 Flow rate: **Up to 200 L/Min**
 Material: **Brass**
 Connection system: **Single acting sleeve**
 Connection under pressure: **Not allowed**

ISO A



BIR

Valving style: **Poppet**
 Interchange: **ISO 7241-1 "A"**
 Available sizes: **From 1/4" to 2"**
 Operating pressure: **Up to 350 bar**
 Flow rate: **Up to 1000 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Single acting sleeve**
 Connection under pressure: **One side with PC version**

I/IP



Valving style: **Poppet**
 Interchange: **ISO 7241-1 "A"**
 Available sizes: **From 1/4" to 1"**
 Configuration: **Modular construction**
 Operating pressure: **Up to 350 bar**
 Flow rate: **Up to 200 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Push-pull**
 Connection under pressure: **Not allowed**

IR/IR-V



Valving style: **Ball/Poppet**
 Interchange: **Similar couplings + IR V + ISO 7241-1 "A" size 1/2" only**
 Available sizes: **From 1/4" to 1"**
 Operating pressure: **Up to 300 bar**
 Flow rate: **Up to 200 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Single active sleeve**
 Connection under pressure: **Not allowed**

OTHER INTERCHANGE

VD



Valving style: **Poppet**
 Interchange: **ISO 14541**
 Available sizes: **From 1/4" to 1-1/4"**
 Operating pressure: **Up to 450 bar**
 Flow rate: **Up to 376 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Screw**
 Connection under pressure: **One side**

VR



Valving style: **Flat face limited spill**
 Interchange: **Similar Couplings (Rohrleitung)**
 Available sizes: **From 3/8" to 1-1/4"**
 Operating pressure: **Up to 420 bar**
 Flow rate: **Up to 576 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Screw**
 Connection under pressure: **One side**

VOF



Valving style: **Poppet**
 Interchange: **Similar Couplings (Oil & Gas)**
 Available sizes: **From 3/4" to 2"**
 Operating pressure: **Up to 345 bar**
 Flow rate: **Up to 1100 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Screw**
 Connection under pressure: **One side**

IRC



Valving style: **Poppet**
 Interchange: **Similar couplings (Nordic interface)**
 Available sizes: **From 1/4" to 1"**
 Operating pressure: **Up to 600 bar**
 Flow rate: **Up to 376 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Single acting sleeve**
 Connection under pressure: **One side with PC version**

VLS



Valving style: **Poppet**
 Interchange: **Similar Couplings**
 Available sizes: **From 1/2" to 1"**
 Operating pressure: **Up to 465 bar**
 Flow rate: **Up to 200 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Screw**
 Connection under pressure: **One side**

IFR



Valving style: **Flat face**
 Interchange: **ISO 5676**
 Available sizes: **3/8"**
 Operating pressure: **Up to 150 bar**
 Flow rate: **Up to 46 L/Min**
 Material: **High strength carbon steel**
 Connection system: **Single acting sleeve**
 Connection under pressure: **Not allowed**

VOFX



Valving style: **Poppet**
 Interchange: **Similar Couplings (Oil & Gas)**
 Available sizes: **From 3/4" to 2"**
 Operating pressure: **Up to 207 bar**
 Flow rate: **Up to 1100 L/Min**
 Material: **Stainless steel (AISI 316L)**
 Connection system: **Screw**
 Connection under pressure: **One side**

IRCX



Valving style: **Poppet**
 Interchange: **With similar product (Nordic interface)**
 Available sizes: **From 1/4" to 1"**
 Operating pressure: **Up to 300 bar**
 Flow rate: **Up to 378 L/Min**
 Material: **Stainless steel (AISI 316L)**
 Connection system: **Single acting sleeve**
 Connection under pressure: **Not allowed**

VEHICLE A/C



ACR-ACB

Valving style: **Poppet**
 Interchange: **SAE J639**
 Available sizes: **1/4"**
 Operating pressure: **Up to 41 bar**
 Material: **Brass**
 Connection system: **Push - screw**
 Connection under pressure: **Not allowed**

CHECK VALVES



VUZ

Valving style: **Check valves**
 Available sizes: **From 1/8" to 2"**
 Operating pressure: **Up to 400 bar**
 Standard cracking pressure: **Up to 4,5 bar**
 Flow rate: **Up to 1000 L/Min**
 Material: **High strength carbon steel**

The incorrect use of products can cause malfunctioning and safety risks.

Therefore, before using Stucchi products, we strongly recommend reading and following the “general instructions for selection and use of the products” and the “instructions of use” of the specified product intending to use.



WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.
It is **MANDATORY** to read and closely follow the instructions written on www.stucchi.it before selecting or using Stucchi products.
Connection under pressure are under residual pressure.
Never connect or disconnect with dynamic pressure (e.g. pump on).
Make sure that the medium used is compatible with seal and material as indicated for each series.
In case of doubt please contact Stucchi Technical Support.
The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.
For full specifications see specific data sheet on www.stucchi.it
Last updated version always apply at time of installation, see latest written Instructions on Stucchi website before selecting or using Stucchi products.

1.0 GENERAL INSTRUCTIONS

1.1 Context

These safety instructions form a supplement and shall be used as one document together with the technical documentation related to the specified product to be installed.

1.2 Safeguarding

It is recommended that all systems and equipment be protected so that safety of people, animals and objects will be guaranteed in case of defect of the product.

1.3 Distribution of the instruction

A copy of these instructions has to be supplied to every person responsible for the selection and/or usage of the products.

1.4 Responsibility of the user

Due to the most various range of operating use and conditions of the products, Stucchi does not guarantee that every product can be used for every application.
These safety instructions don't analyse all technical parameters that have to be considered by selecting the products.

The end user, through their own analyses and tests, is responsible for the following:

- Final selection of the product
- Ascertainment that the requirements of the end user are satisfied and that the predicted use does not present a safety risk.
- Supply of all warnings regarding the safety of the equipment on which Stucchi products will be used.

2.0 INSTRUCTIONS FOR SELECTION OF THE PRODUCT

2.1 Application fields

Check that the product is suitable for the specific application.
In case of doubt, contact the Stucchi Technical Support.

2.2 Type of product

Select the type of product most suitable for the working environment.
Flat face couplings: suitable for working environments where it is necessary to reduce to minimum the fluid loss during disconnection and to avoid dirt inclusion during connection.
Screw couplings: they are suitable for high operating pressure and frequent impulses; they are connectable with high residual pressure.
Poppet valve couplings: widely used in the agricultural field.

2.3 Materials and treatments

Make sure that the materials and treatments of the product conform to the exposed working environment.

2.4 Dimensions

Choose the product with dimensions and flow suited to the circuit in order to avoid over stress damaging the product.

2.5 Flow inversion

For application with flow inversion during operation, use only products designed for that scope.
Flow inversion during operation generates turbulences inside the product that can cause damage on the components.

2.6 Thread

Choose the product with thread suitable for the application.
For high pressure conditions, over 50 MPa, products with taper thread NPT are recommended.

2.7 Type of medium

Verify that the seals of the product are compatible with the medium used in case of doubts please contact Stucchi Technical Support.
Make sure that other not compatible fluids do not come in contact with the seals in case of maintenance.
Do not use the products with inflammable, explosive or dangerous fluids without approval of Stucchi.

2.8 Medium temperature

Verify that the working temperature is within the functional limits of the coupling and its seals.
The couplings must not be connected and disconnected with a temperature higher than 80 degrees Celsius.

In case of connection-disconnection with temperature higher than 30 Celsius degrees, the operator must be protected using gloves and/or other devices to prevent any leakage or splashing causing injury to himself, persons, animals and objects.

2.9 Environment temperature

With extreme temperature conditions, the mechanical resistance of the products changes. The use and handling of couplings in case of ice can be difficult due to ice inclusion in the blocking mechanisms.
Use protective gloves in applications with hot and cold operating temperature.

2.10 Pressure

Verify always if the maximum operating pressure of the product is the same or higher than the pressure peaks of the application.

Do not make confusion between the burst pressure and the maximum operating pressure, so do not use the value of the burst pressure for your selection.

Check that the number of impulse cycles which the product has been tested is compatible with the impulse number of the application.

2.11 Residual pressure

For connection and disconnection with residual pressure use only couplings that are developed for this scope.

The term 'internal residual pressure' means: the static pressure retained in the system, which has not been generated by a working pump or other accessories in movement.

The structure of the machine or plant in which these products are placed, must be suitable to limit accidental splashing and fluid losses caused by wrong usage or malfunctioning of the product, in order to avoid direct and indirect damage on persons, animals or objects.
The temperature of the fluid must not exceed the limits mentioned in point 2.8

2.12 Connection frequency

It is important to know the connection frequency with which the coupling is used, while this has significant influence on the life of both springs and seals.

An under-estimated value can cause unexpected fluid loss.

2.13 Safety device

If used in environments or machines in strict closeness at persons, animals or objects (1 meter), within easy accidental disconnection conditions, it is highly recommended to use ball locked couplings with security system or screw couplings and to make sure that the preventive disconnection mechanism is correctly screwed together.

2.14 Mechanical loads

Side loads, mechanical stresses in general and vibrations reduce significantly the life of the product and are often the cause of sudden damages.

It is recommended to assemble quick release couplings without risks of mechanical damage and over-loading caused by stress generated in flexible or rigid hoses and to assemble quick release couplings on hoses with proper dimensions referred to the nominal passage of the quick release coupling.

2.15 Rotation

In case of applications with rotation use only products developed for this scope.
In case of rotation between male and female part it is necessary to inform in advance Stucchi Technical Support or to provide the connection with swivel joints suitable for this scope.

2.16 Special applications

You should be advised to take particular attention to special applications (such as vacuum use, high temperature, etc...).

Please consult Stucchi Technical Support who is able to give instructions concerning the use of Stucchi products.

Do not use Stucchi products in nuclear, aircraft or military field; do not use Stucchi products in explosive environment or with inflammable, explosive or dangerous fluid. In this cases contact Stucchi Technical Support for assistance.



3.0 INSTRUCTIONS FOR STOCK PRESERVATION

For a correct preservation of the product and in order to avoid damage before even starting to use the product read carefully the following instructions.

3.1 Packaging

The products have to be kept in closed packaging to protect the components, mainly the seals, from dust and ultraviolet rays.

3.2 Environments

The products shall be kept in environments with low percentage of humidity, no condensation, no salt, protected from atmospheric factors, far away from heating devices and magnetic fields.
Eliminate equipment that can produce ozone, as this element is extremely destructive for the seals.

3.3 Protection cap

The protection cap assembled on the thread has to be removed at the moment of the product installation only.

3.4 Special packaging

In case of requests for special packaging contact the customer service.

4.0 INSTALLATION INSTRUCTIONS

4.1 Pre Installation inspections

Before installation of the product it is necessary to inspect it visually and to verify if the part number and description of the product refers to the one requested.

4.2 Use of flexible hoses

To absorb better the vibrations and mechanical stress on the connection mechanism of the couplings, it is suggested to use flexible hoses.

In this way you avoid vibrations of the circuit that can use accidental disconnection or damage on the coupling.

4.3 Hose assembling

The hose has to be assembled so that connection/disconnection of the couplings takes place in easy way and aligned position.

Presence of high radial/axial forces creates misalignment of the couplings during connection/disconnection and can cause damage on the connection and sealing parts.

4.4 Adapter assembling

Use adapters and sealing systems conform to the thread of the product only.
To install and remove the couplings use proper tools and act only on flat spanner surfaces of the coupling. Do not use improper tools (spanner for hoses, bench vice, pincer etc.) while these can cause damage on the coupling with malfunction as result.
Use the tightening torque stabilized by the norm to screw the adapters.

4.5 Positioning of the coupling

It is suggested to install the couplings in such way that they can easily be connected and disconnected, reducing to the minimum the forces and risks for the operator.

It is suggested to protect the couplings using shelters and protections (see sector norms) to guarantee the security and to prevent damage.

5.0 INSTRUCTIONS OF USE

5.1 Modality of use

The modality of use changes in accordance to the type of product used.

For every type of product, the modality of use described in the catalogue or the specific usage instructions supplied by Stucchi have to be carefully followed. The system has to be immediately stopped and the product should be replaced whenever one of the following conditions will occur:

- Visible damage, damaged parts of the product, cracks and corrosion.
- Difficulties in connection and disconnection generated by too high force compared to

the data mentioned in the catalogue.

- Presence of leakage.
- Malfunctioning of the valve.

In the above mentioned cases please contact Stucchi Technical Support for information.

5.2 Connection / Disconnection

Before connecting, the parts of the couplings involved in the connection have to be cleaned. Connection with dirty parts may cause damage such as unexpected and dangerous leakage on the coupling.
Another consequence of dirt is contamination of the system.
Do connect and disconnect the coupling only as indicated in the modality of use: do not use other unsuitable tools.

5.3 Mechanical damage

The product shall not be exposed to mechanical damages while they can cause damage and malfunctioning.
Do not use tools to open the valves to release residual pressure trapped in the circuit.

5.4 Circuits cleaning

Use the products in clean circuits.
Dirt can damage components of the product and cause malfunctioning.

5.5 Protection caps

Use anti-dust caps when coupling is disconnected to avoid dirt and contamination and to protect the surface from accidental damage caused by collisions.

5.6 Use of semi-couplings of other manufacturers.

Do not connect Stucchi half-couplings with other not compatible half-couplings.
In case of connection of a Stucchi half-coupling with a half-coupling from another manufacturer, do not exceed the lowest nominal pressure of the two products.

6.0 MAINTENANCE INSTRUCTIONS

The good functional of product is often compromised by a lack of maintenance.
To avoid unexpected damage that can cause times of arrest and safety risks it is necessary to apply maintenance periodically.

The period dedicated to the maintenance of the product has to be defined by the user and depends on the type of application and on the working conditions the product is exposed to.

6.1 Ordinary - Preventive maintenance

First, the product should be well cleaned and the area where it is installed as well, then you should check and verify the following steps:

- Absence of breakage or obvious damage on the products.
- Absence of leakage in general.
- Correctness of tightening torque of the adapters.
- Check the level of circuit contamination.
- The connected parts or the parts in movement should be greased with grease compatible with the seals assembled in the products.
- The replacement of the coupling should be planned in accordance with the requested endurance for the specific application.

6.2 Repair

In case of repair of the products it is recommended to follow Stucchi's specific instructions and use spare parts, tools and documentation supplied by Stucchi only.
Please contact Stucchi Technical Support for the above specific information.

IT IS THE RESPONSIBILITY OF THE USER TO SELECT, INSTALL AND USE THE QUICK RELEASE COUPLING IN THE CORRECT WAY.

The texts, data and illustrations indicated in this catalogue, may be changed by Stucchi S.p.A at any time without notice.

For more information please contact the Stucchi Technical Support, in any case we remind for **last updated version always applied at time of installation, see latest written instruction on www.stucchi.it before selecting or using Stucchi products.**

Conversion table

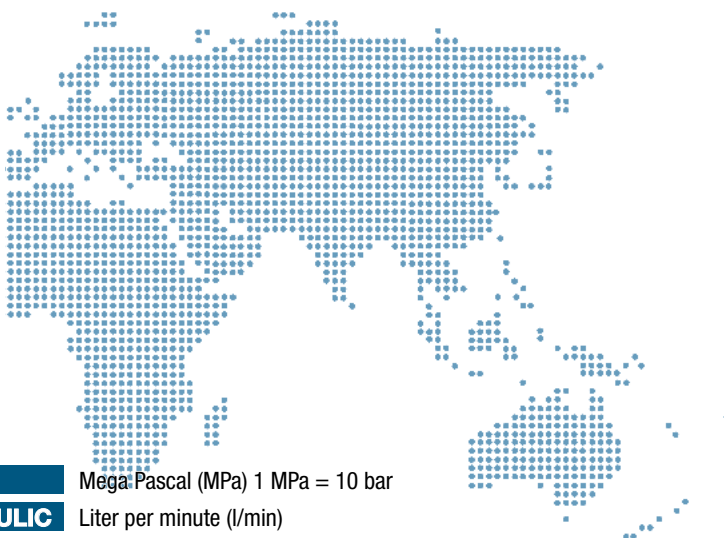
Unit of measure

Anglo Saxon Imperial System (USA)



Characteristic

International Metric System (SI)



Pound/Square Inch (psi)	PRESSURE	Mega Pascal (MPa) 1 MPa = 10 bar
Gallon per minute (US-GPM)	FLOW IN HYDRAULIC	Liter per minute (l/min)
Pound force (lbf)	FORCE	Newton (N)
Pound force per Foot (lbf ft)	TORQUE	Newton meter (Nm)
Fahrenheit degree (°F)	TEMPERATURE	Celsius degree (°C)
Inch (Inch) Foot (ft)	LENGTH	Millimeter (mm) Meter (m)
Pound (lb)	WEIGHT	Kilogram (kg)

Temperature

USA > SI

1 psi = 0,0069 Mpa
 1 GPM = 3,78 l/min
 1 lbf = 4,444 N
 1 lbf ft = 1,357 Nm
 $^{\circ}\text{F} = (^{\circ}\text{C} \times 1,8) + 32$
 1 Inch = 25,4 mm 1 ft = 0,3048 m
 1 lb = 0,1536 Kg

SI > USA

1 Mpa = 145 psi
 1 l/min = 0,265 CPM
 1 N = 0,225 lbf
 1 Nm = 0,737 lbf ft
 $^{\circ}\text{C} = (^{\circ}\text{F} - 32) / 1,8$
 1 mm = 0,03937 Inch 1 m = 3,28084 ft
 1 Kg = 2,2016 lb

Conversions

Temperature range Celsius degrees °C	Seal compound	Temperature range Fahrenheit degrees °F
Oil -20 > +100 Water +5 > +60	NBR (Nitrile)	Oil -4 > +212 Water +41 > +140

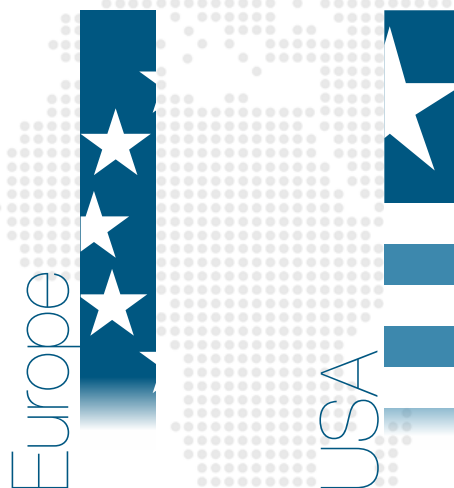
SEAL Temperature range

It is a generic indication of the seal temperature range given by Stucchi seal suppliers after laboratory tests made in standard conditions. It is given for Customer information only (is intended as a guide but not as a warranty). It does not mean all the Stucchi products are homologated for such seal temperature range. Fluid in use, external condition (radiant heating, temperature changes...), internal condition (duration of exposure, state changes of the fluid, thermal expansion...) should be taken into account. Every application has to be analyzed by the Customer prior to do the final choice. Please contact us for further information.

SEAL compatibility

Verify that the seals of the product are compatible with the medium used. Make sure that no other not compatible fluids do not come in contact with the seals in case of maintenance or due to external environment condition. Do not use Stucchi product with flammable, explosive or dangerous fluids. We always recommend to do a customer verification & validation test to approve the products in the specific application prior to do the final choice. Please contact us for further information.

Size, different references



Body size (Inch)	ISO size	Dash size
1/8	(4)	-2
1/4	6.3	-4
3/8	10	-6
1/2	12.5	-8
5/8	16	-10
3/4	19	-12
1	25	-16
1-1/4	31,5	-20
1-1/2	40	-24
2	50	-32



Brinelling

Markings of the locking balls on the metallic parts where they are in contact with high impulse applications.

Burst pressure

Value of pressure at which a coupling loses its ability to retain pressure.

Dis/Connect force

Value of force required to dis/connect the couplings without residual pressure in the system.

Connect torque

Value of torque required to connect the couplings without residual pressure in the system.

Coupled

Male coupling half connected with the female coupling half.

Disconnect torque

Value of torque required to disconnect the couplings without residual pressure in the system.

Interchangeability

Possibility of male coupling half or female coupling half to connect with the other brands of couplings.

ISO Size

Size indicated by ISO standard (the International Organization for Standardization) related to interchangeability of the couplings.

Mechanical connection

Method or type of connection that creates retention between the male coupling half and female coupling half.

Max. flow suggested

Max. flow suggested by Stucchi

Max. operating pressure

The maximum peak of pressure at which can be used the product.

Max. residual pressure during connection

Max. allowed residual pressure (pressure trapped in the circuit) to connect the coupler.

Max. residual pressure during disconnection

Max. allowed residual pressure (pressure trapped in the circuit) to disconnect the coupler.

Pressure drop

Pressure lost between the inlet and the outlet of the coupling.

Quick coupling

A quick, easy, sure product to repeatedly connect and disconnect almost any fluid line in a system and to turn off the flow immediately upon disconnect.

Rated flow

Typical rated flow relative to the size, in accordance with ISO 7241-2 standard.

Size

Nominal size of coupling body.

Spillage

Indicative value of the fluid loss per couple - uncouple cycle without residual pressure.
Checked on sample in accordance with ISO 7241-2 test method.

Temperature range

See page 188.

Tightening torque

Recommended torque to apply during connection on screw to connect couplings to prevent accidental disconnection.

Valve system

Type of valve used to shut-off medium flow in the male or female coupling half once disconnected.



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