DP - GR: glossary



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 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.

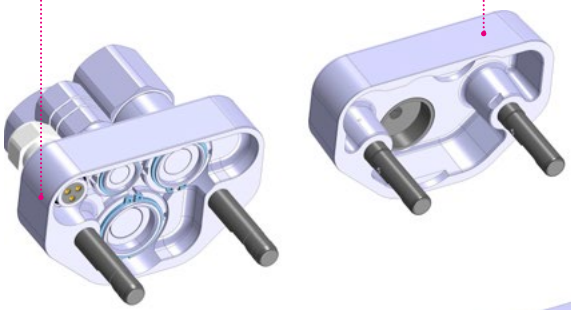


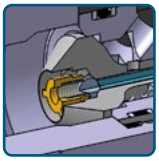
Electrical connector
Electrical connector option
Possible to integrate an electrical connector with hydraulic couplings in the same multiconnection. It is a good complement to Stucchi multiconnection adding the possibility to conduct low voltage signal for solenoid valve, sensor or other electronic Customer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

Fixed plate
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

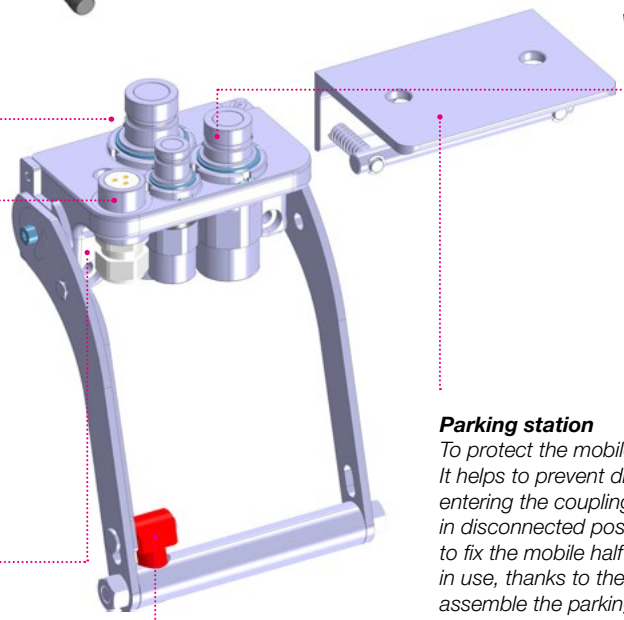
Mobile plate
It is called "mobile" because is normally installed on the attachment (it is the part with the locking pins). The couplings of the mobile parts are connected to the flexible hose bundle of the attachment, so the mobile part of the Customer equipment.

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.



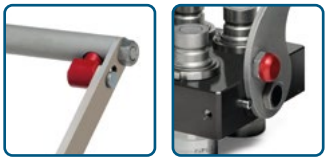


Male residual pressure eliminator
Internal pressure release valve system allows an easy connection with high internal residual pressure

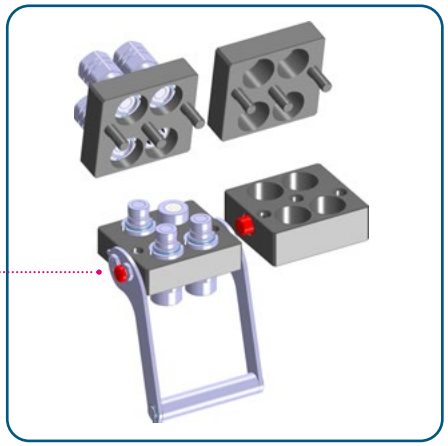


Parking station
To protect the mobile half when disconnected. It helps to prevent dirt, pollutants & contamination entering the couplings of mobile multiconnection in disconnected position. In addition to that, it helps to fix the mobile half with his hose bundle when not in use, thanks to the fixing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

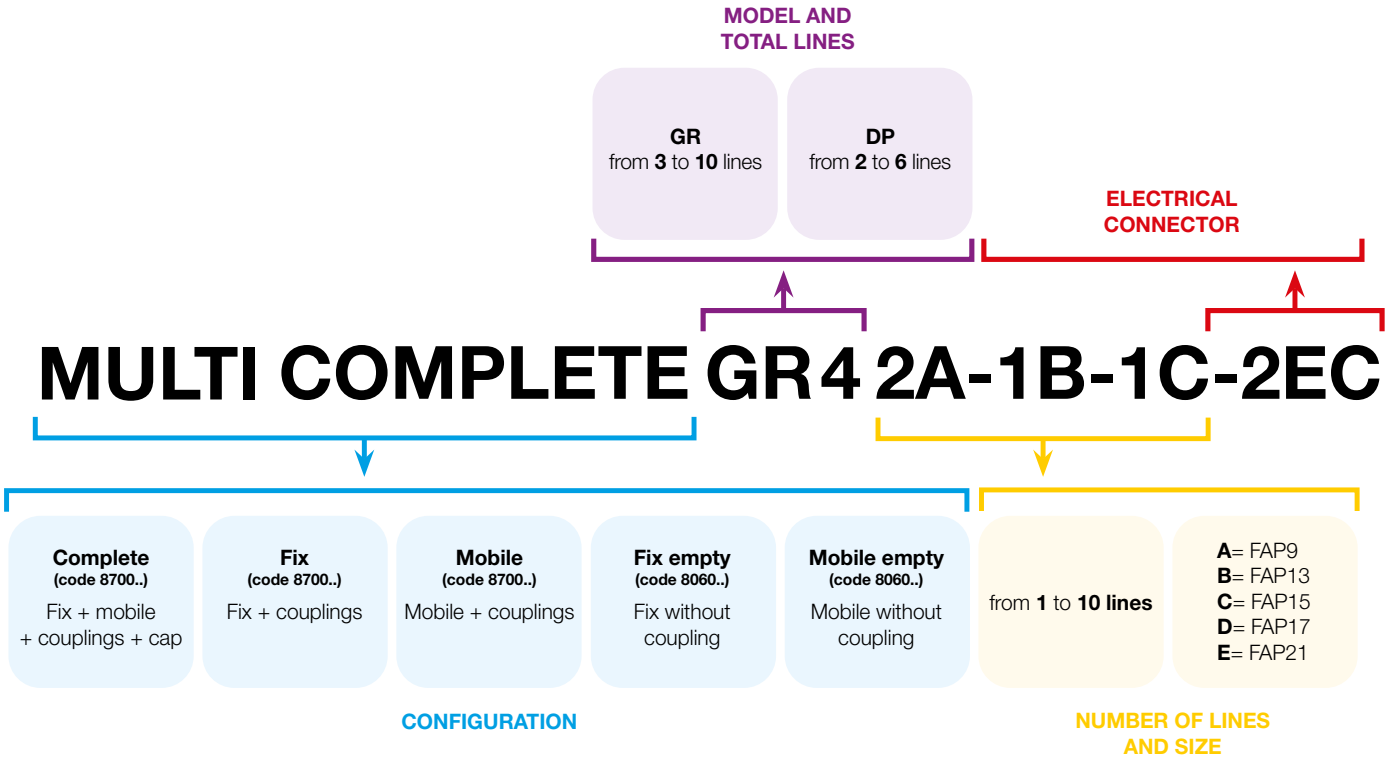


Same glossary for DP



DP - GR: multi description

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

Stucchi®

New name	Family	Total Lines	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	EC*		Previous description	Page
Body size			3/8"		1/2"	5/8"	3/4"	1"	3/8"	1/2"		
Max flow suggested (l/min)			46		90	148	200	378				
Mostly used adaptor (main alternative thread)			3/8" (1/2")		1/2" (3/4")	3/4"	1" (3/4")	1-1/4" (1")				
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 1A-2C-1EC V04	DP	3	1	D		2			1			46
DP3 1C-2E	DP	3				1		2			DP3GE	48
DP3 2A-1EC	DP	3	2	A					1**		DPJ3ZN	50
DP4 4A-2EC	DP	4	4	A					2		DP4-9ZN	52
DP4 4B-2EC	DP	4			4					2	DP4-13ZN	54
DP4 4B-1EC V01	DP	4			4					1		56
DP6 2A-4D-2EC	DP	6	2	A			4		2		DP6AD	58
GR3 3A-1EC	GR	3	3	A					1		GR3-9ZN	60
GR3 3B-1EC	GR	3			3					1	GR3-13ZN	62
GR3 1A-2E-1EC	GR	3	1	D				2	1		GRK3ZN	64
GR3 2B-1C-2EC	GR	3			2	1				2	GRI3	66
GR4 2A-1B-1C-2EC	GR	4	2	D	1	1			2		GRI4SBZN	68
GR4 2A-2B-2EC	GR	4	2	D	2				2		GRB4ZN	70
GR4 2A-1B-1D-2EC	GR	4	2	D	1		1		2		GR4MRZN	72
GR4 2A-1C-1D-2EC	GR	4	2	D		1	1		2		GRI4ZN	74
GR4 2A-2C-2EC	GR	4	2	D		2			2		GRI4TBZN	76
GR5 1A-1B-1C-2D-1EC	GR	5	1	D	1	1	2		1		GRP6ZN	78
GR5 2B-3D-2EC	GR	5			2		3			2	GR5AAZN	80
GR5 3A-1D-1E-2EC	GR	5	3	D			1	1	2		GRD5ZN	82
GR5 2B-2C-1E-2EC	GR	5			2	2		1		2	GRZ5ZN	84
GR5 5C	GR	5				5					GR5-15ZN	86
GR6 6A-2EC	GR	6	6	D					2		GR6-9ZN	88
GR6 4A-2B-2EC	GR	6	4	D	2				2		GRT6ZN	90
GR6 4B-2D-4EC	GR	6			4		2			4	GR6ABZN	92
GR6 2A-2B-2C-2EC	GR	6	2	D	2	2			2		GRM6MCZN	94
GR6 6B-2EC	GR	6			6					2	GR6-13ZN	96
GR6 3A-1B-1C-1D-2EC	GR	6	3	D	1	1	1		2		GRC6ZN	98
GR6 2A-2C-2D-2EC	GR	6	2	D		2	2		2		GRM6ZN	100
GR6 2A-2B-1D-1E-2EC	GR	6	2	D	2		1	1	2		GRU6ZN	102
GR6 2B-4D-2EC	GR	6			2		4			2	GR6LLZN	104
GR6 2A-4C-2EC	GR	6	2	D		4			2		GRM6ALZN	106
GR6 2A-1B-2D-1E-3EC	GR	6	2	D	1		2	1	2	1	GR6AF	108
GR7 4A-3B-4EC	GR	7	4	D	3				4		GR7ABZN	110
GR7 4A-3B-4EC V01	GR	7	4	D	3				4		GR7ABZNLC	110
GRHP7 7A-4EC	GR	7	4 3	D HP					4		GR7ACZN	112
GR7 4A-1B-2D-4EC	GR	7	4	D	1		2		4		GR7AAZN	114
GR8 6A-2B-6EC	GR	8	6	D	2				6		GR8ABZN	116
GR8 7A-1D-7EC	GR	8	7	D			1		7		GR8AAZN	118
GR10 10A-2EC	GR	10	10	D					2		GR10-9LCZN	120
GR10 10A-2EC V01	GR	10	10	D					2		GR10-9ZNSD	120
GR10 10A-2EC V03	GR	10	10	D					2		GR10-9ZN	120
GR10 10B-2EC	GR	10			10					2	GR10-13ZN	122

* 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.

DP - GR: how to choose

Step A

Define the type of multicoupling you need

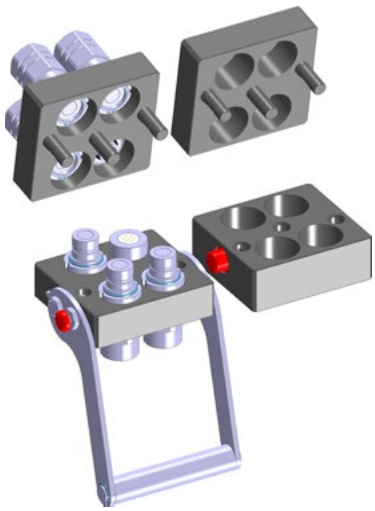
Step B

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

DP - GR: how to choose

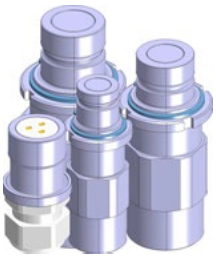
B. CHOOSE CONFIGURATION OF THE MULTICOUPLING



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 1/2" + 1 EC*



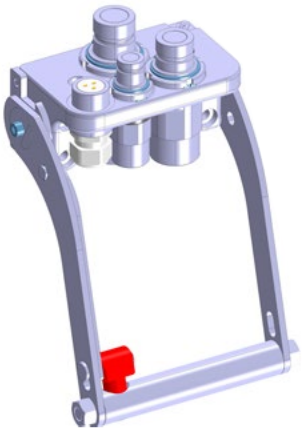
3 Choose the multicoupling for your configuration

Use the overview table 'Multi Description' to choose the multicoupling 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 multicoupling

Use '*Max. Multicoupling Resistance*' provided on the single datasheet to be sure that the multicoupling will be able to handle the pressure once connected.

See page 27 for details.

DP - GR: how to choose

C. SETUP EACH LINE

Hydraulic oil	Hydraulic oil	Water-Glycol
Connectable under pressure	Connectable under pressure	Not connectable under pressure
Medium pressure	High pressure	Low pressure
FAP-ZN*	**FAP-HP**	**FAQ**



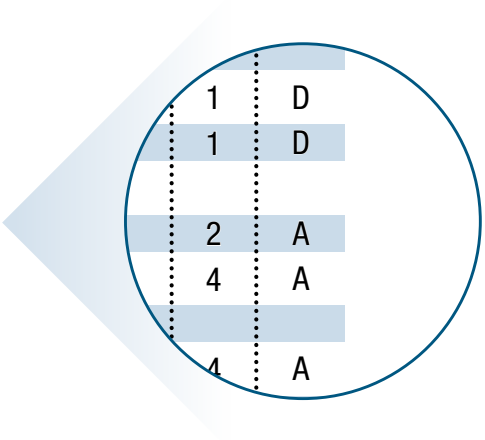




Choose your port type (BSP/SAE-ORB/NPT...) and port size

* 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



DP - GR: features

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.

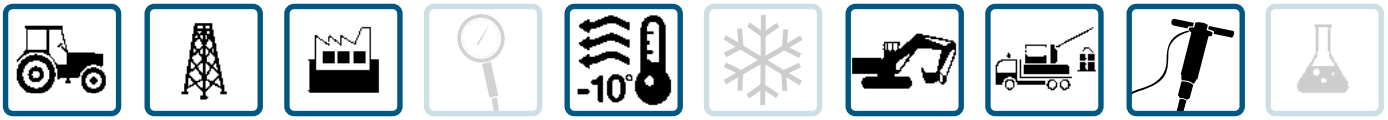
Flow rate
Up to 378 l/min - 100 gpm

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



Benefits

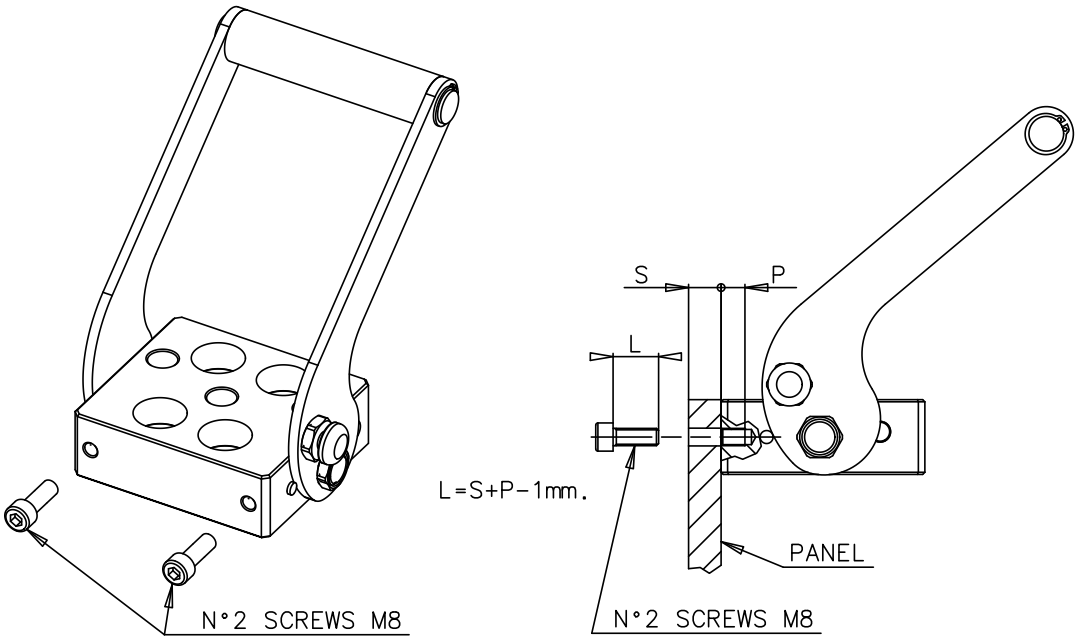
- Optimal solution for hydraulic fluid power applications with a operating pressure up to 350 bar.
- Quick connection and disconnection of up to ten hydraulic, electrical and pneumatic lines without any risk to incorrect connection of the lines.
- Ergonomic lever for easy connect/disconnect with residual pressure.
- 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.

DP - GR: installation

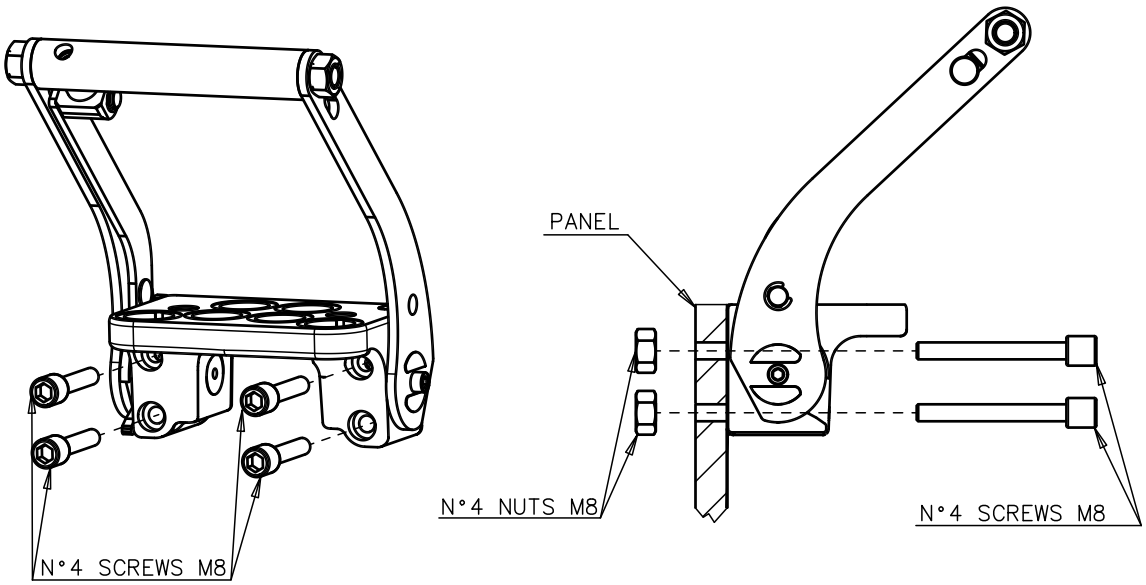
Installation

- 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.

DP



GR



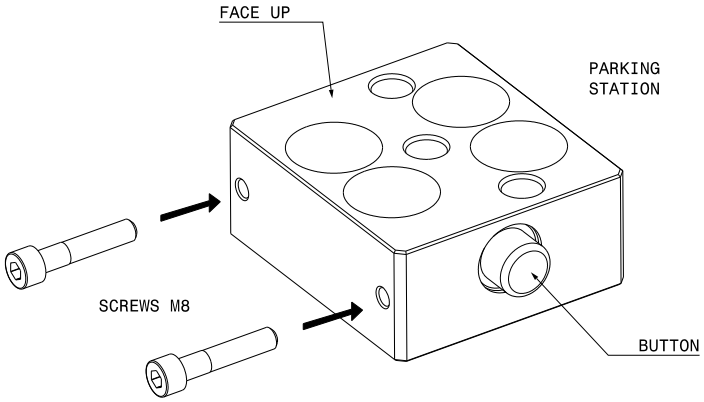
DP - GR: installation

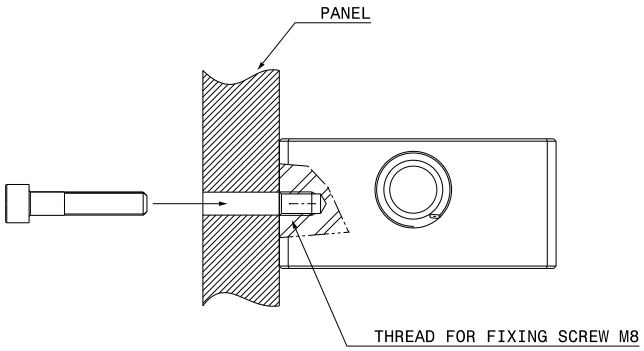
To install the parking station
Ensure the space to assemble the parking station is enough to allow the correct connection & disconnection in an ergonomic way.
Check the drawing of the parking station.

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.

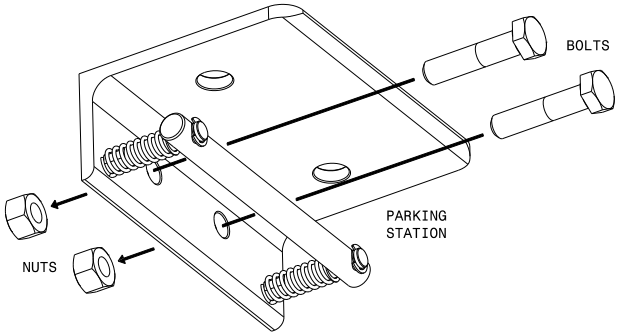
Please verify the parking station is placed “face up”.

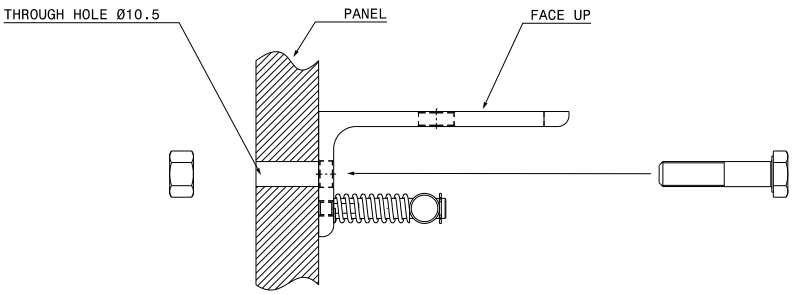
DP





GR

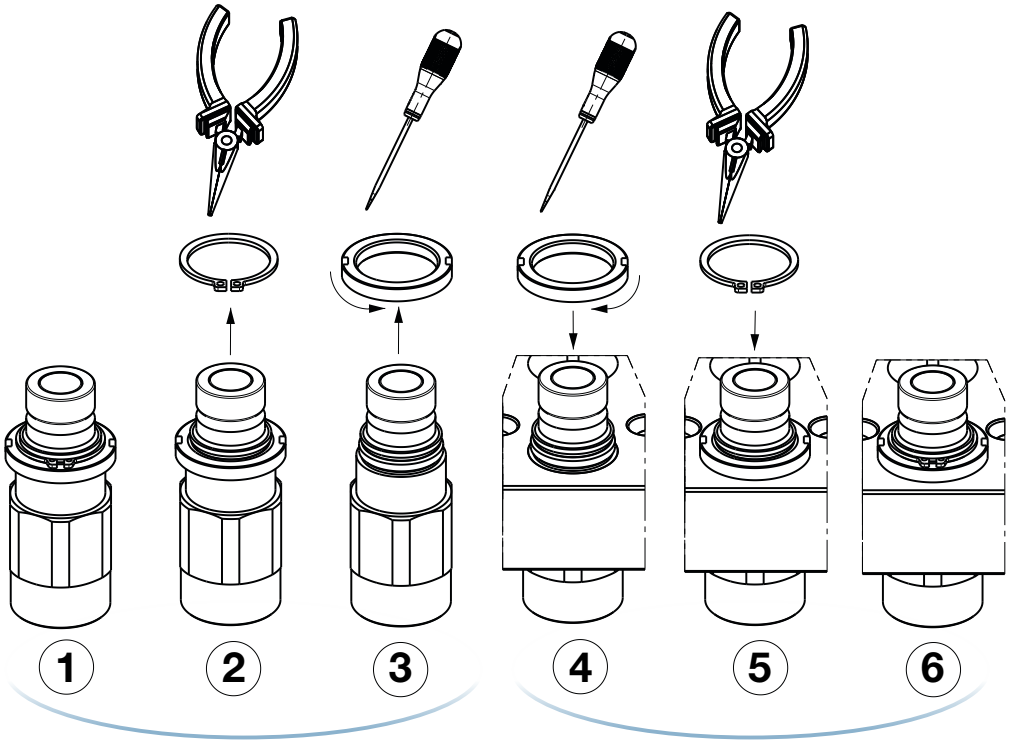




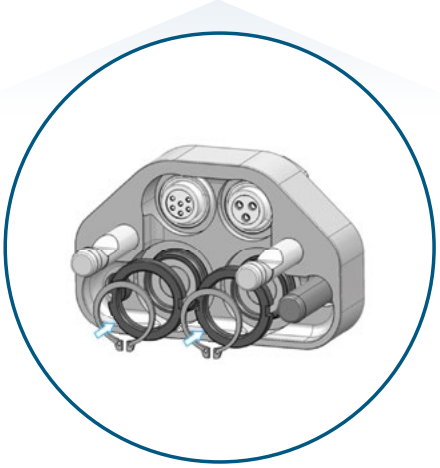
DP - GR: installation

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
- Replace the seeger ring every 50.000 impulses.







WARNING

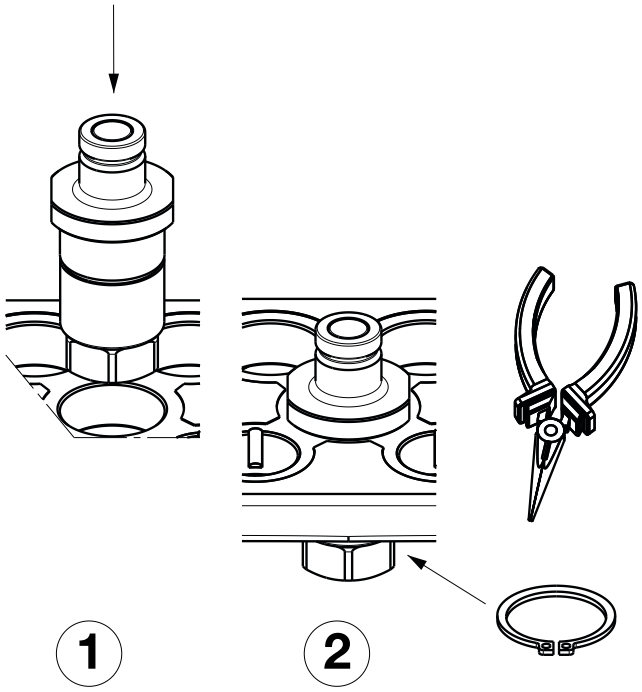
During the assembly/dismantling of the quick couplings, be careful to not deform the seeger rings. if deformed, replace them.
Replace the seeger ring every 50.000 impulses.



DP - GR: installation

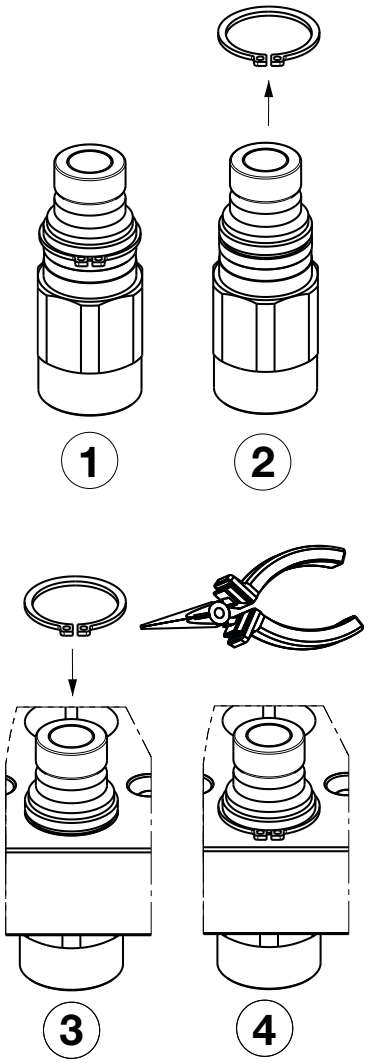
FAP-HP: How to install

- 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

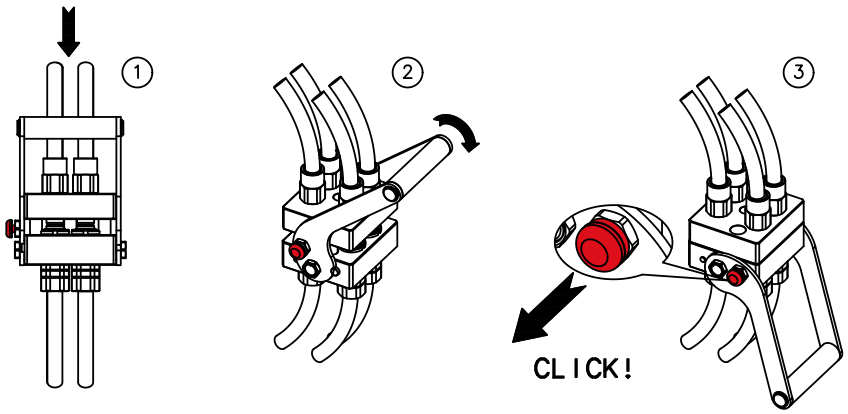
- FAQ couplings may be fitted in the same holes of FAP-ZN couplings; read the table on the specific multiconnection as described below:
- FAP9A: in the hole may be assembled the FAQ9A coupling
- FAP9D: in the hole may be assembled the FAQ9D coupling
- FAP13 or FAP15 or FAP17 or FAP21 : in the hole may 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.



DP: how to use

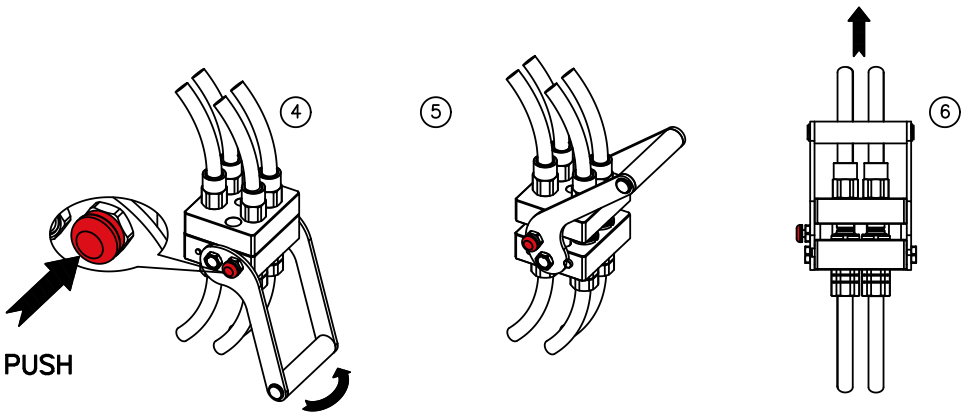
To connect

- 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

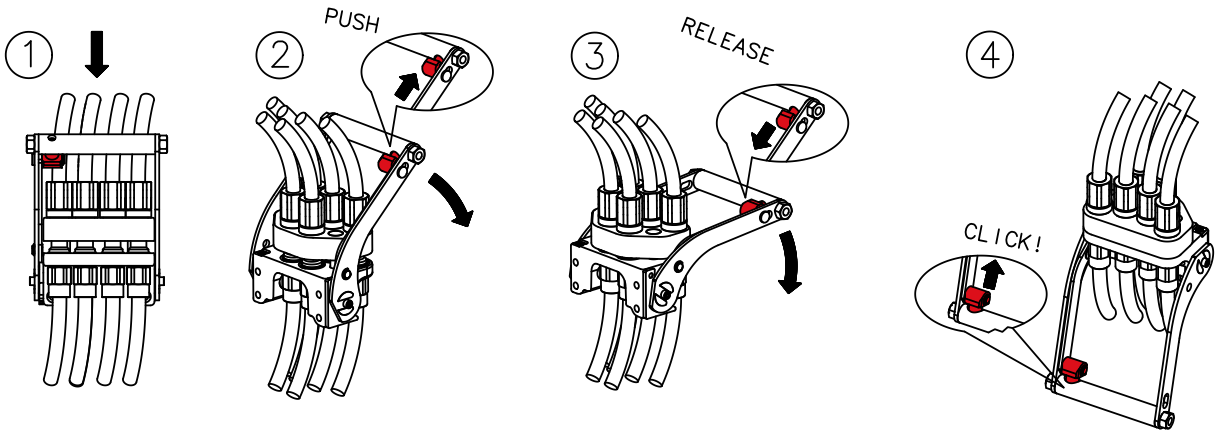
- Push the red safety button, at the same time acting on the handle turn the lever in the direction of the mobile multicoupling (fig. 4).
- Continue to rotate till the mechanical stop of the levers (fig. 5)
- Now the multicoupling is uncoupled and it is possible to pull out the mobile half (fig. 6).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



GR: how to use

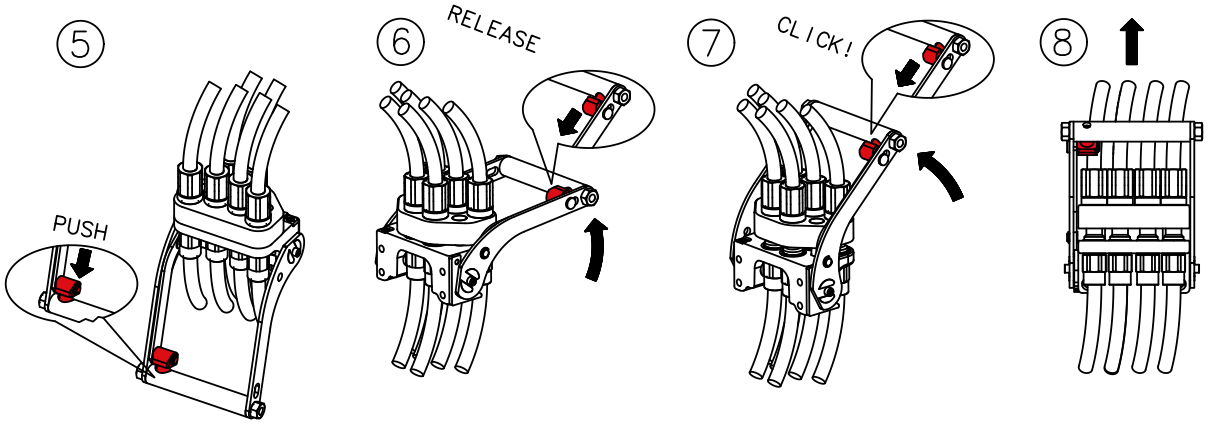
To connect

- 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.



DP - GR: resistance

Resistance

All Stucchi multicouplings have been tested at their maximum resistance by impulse pressure test (for 200.000 cycles in according with ISO norm; 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 = [(P3/8x S3/8) + (P1/2x S1/2) + (P5/8x S5/8) + (P3/4x S3/4) + (P1x S1)] x 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 cm^2

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 to verify that F (force applied to multicoupling) is not greater than max. multicoupling resistance:
P3/8 = 300 bar + 150 bar = 450 bar
P5/8 = 250 bar + 100 bar = 350 bar
P3/4 = 200 bar + 50 bar = 250 bar
F= [(P3/8x S3/8) + (P5/8x S5/8) + (P3/4x S3/4)] x 10 =
F= [(450x1,226) + (350x2,404) + (250x3,298)] x 10 =
F= [551.7 + 841.4 + 824.5] x 10 = 22.176N

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 (stucchigroup.com) before selecting or using Stucchi products.

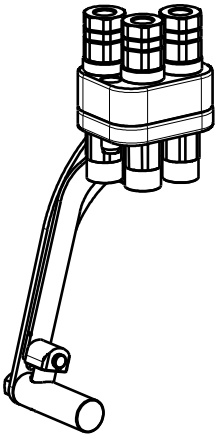
Do not force the lever without pushing the red safety button.
Do not use extensions or other tools to ease the rotating of the lever.
Do not connect the fixed half with the mobile half if dirt or other material (tool, finger) is between them
Pay attention during the connection not to put finger or other 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.

GR3 3A-1EC

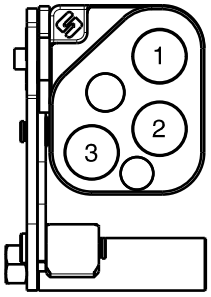
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GR3-9ZN	8000 N	3	A				

DRAWING





CONFIGURATIONS



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

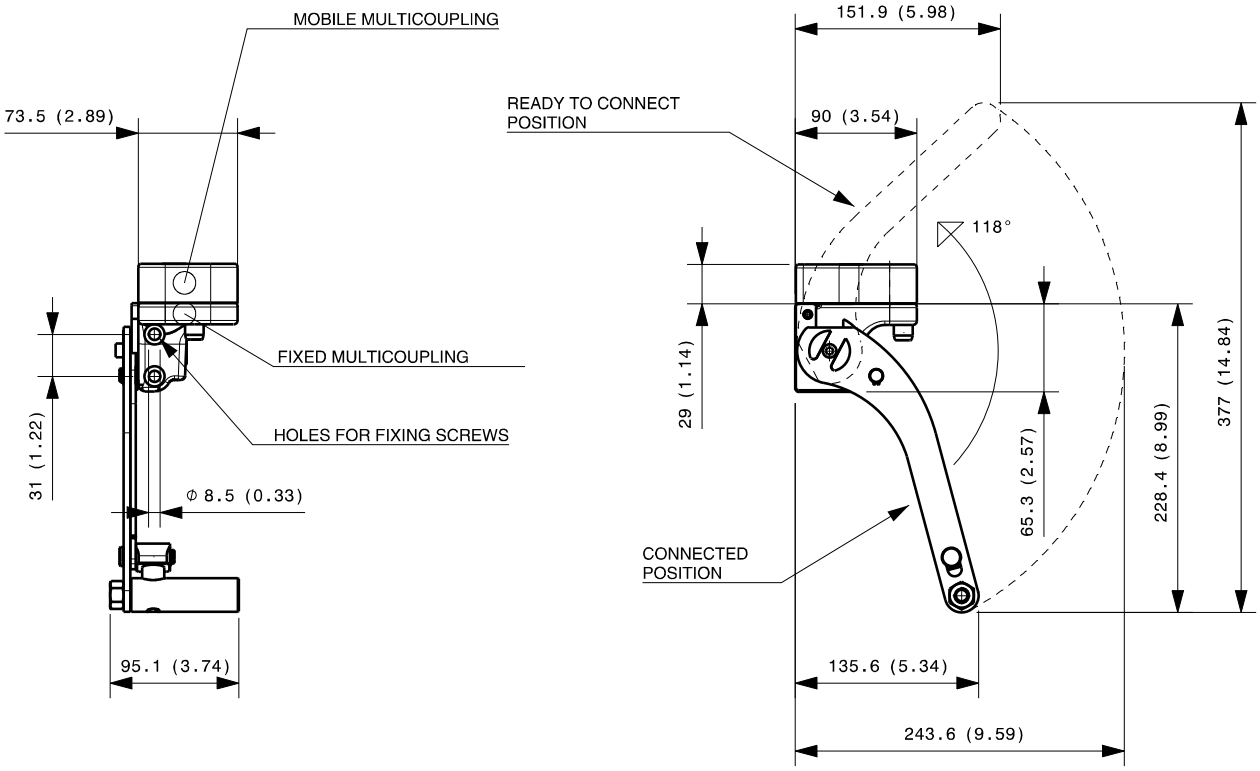
MultiCoupling (couplings included)		
Code	Name	Description
870001040	MULTI COMPLETE GR3 3A	2 FAP9A 3/8 BSP - 1 FAP9A 1/2 BSP - CAP
870001043	MULTI COMPLETE GR3 3A	3 FAP9A 3/8 BSP - CAP
870001044	MULTI COMPLETE GR3 3A	3 FAP9A 1/2 BSP - CAP
870001140	MULTI FIX GR3 3A	2 FAP9A 3/8 BSP - 1 FAP9A 1/2 BSP
870001143	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	SPARE KIT LEVER GROUP GR 200x95

Custom configurations available upon request

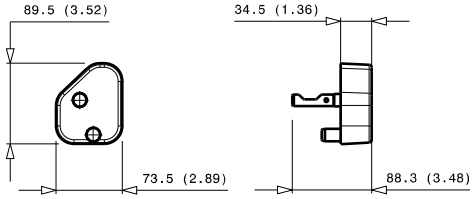
Fixed and mobile multicoupling

2,0 Kg and 0,9 Kg



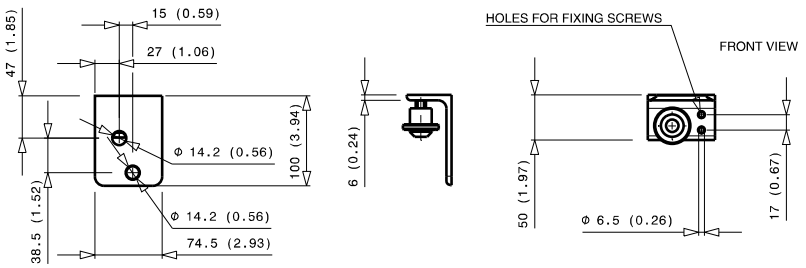
Dimensions in millimeters (inch)

Cap for fixed multicoupling *0,4 Kg*



Parking station for mobile multicoupling

0,6 Kg



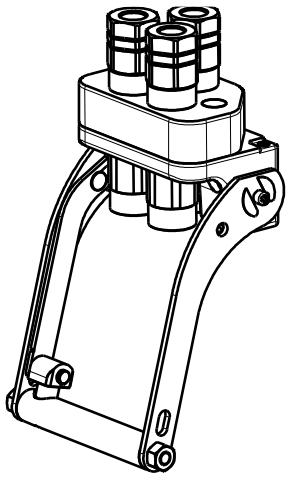
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GR3 3B-1EC

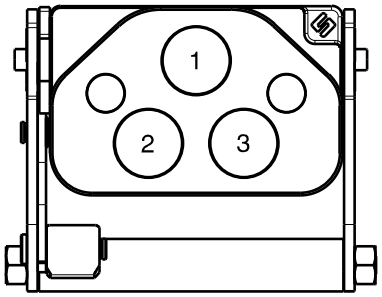
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”	1/2”	5/8”	3/4”	1”
GR3-13ZN	18000 N		3			

DRAWING





CONFIGURATIONS



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

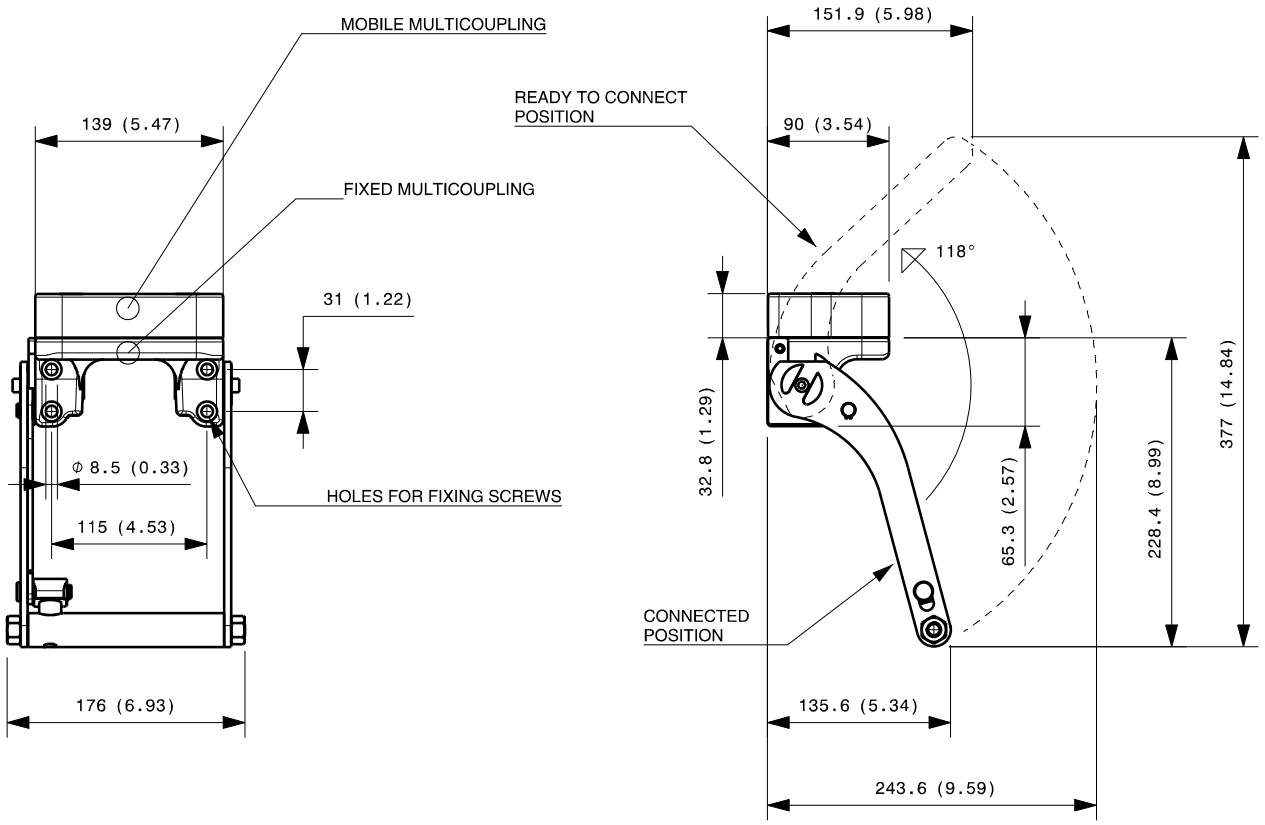
MultiCoupling (couplings included)		
Code	Name	Description
870003017	MULTI COMPLETE GR3 3B	1 FAP13 1/2 BSP - 2 FAP13 3/4 BSP - CAP
870003020	MULTI COMPLETE GR3 3B	3 FAP13 1/2 BSP - CAP
870003021	MULTI COMPLETE GR3 3B	3 FAP13 3/4 BSP - CAP
870003117	MULTI FIX GR3 3B	1 FAP13 1/2 BSP - 2 FAP13 3/4 BSP
870003120	MULTI FIX GR3 3B	3 FAP13 1/2 BSP
870003122	MULTI FIX GR3 2B	2 FAP13 3/4 BSP
870003123	MULTI FIX GR3 2B-1EC	2 FAP13 1/2 BSP - 1 EC6
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
870003223	MULTI MOBILE GR3 2B-1EC	2 FAP13 1/2 BSP - 1 EC6

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 139x90
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	SPARE KIT LEVER GROUP GR 200x176

Custom configurations available upon request

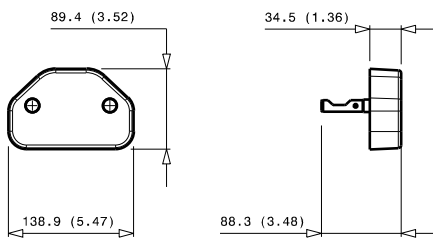
Fixed and mobile multicoupling

3,8 Kg and 1,8 Kg



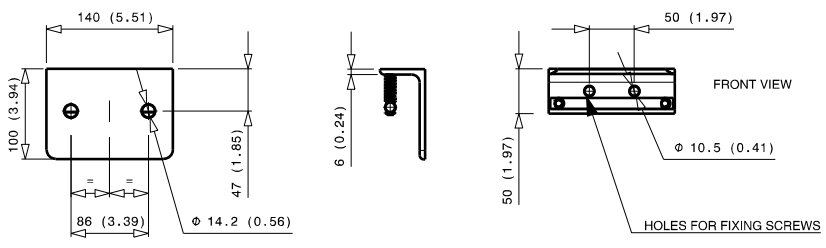
Dimensions in millimeters (inch)

Cap for fixed multicoupling *0,6 Kg*



Parking station for mobile multicoupling

1,1 Kg



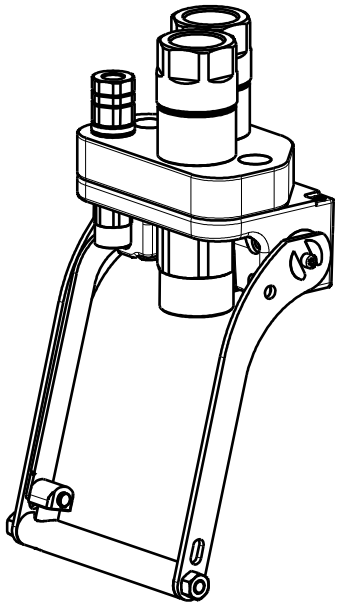
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GR3 1A-2E-1EC

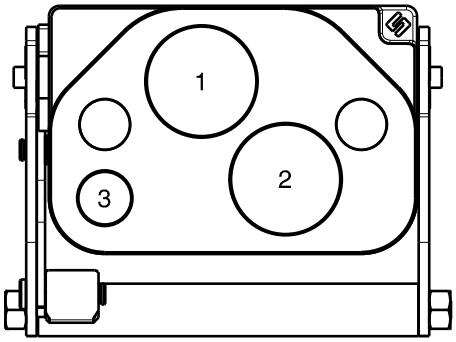
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GRK3ZN	23000 N	1	D				2

DRAWING





CONFIGURATIONS



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

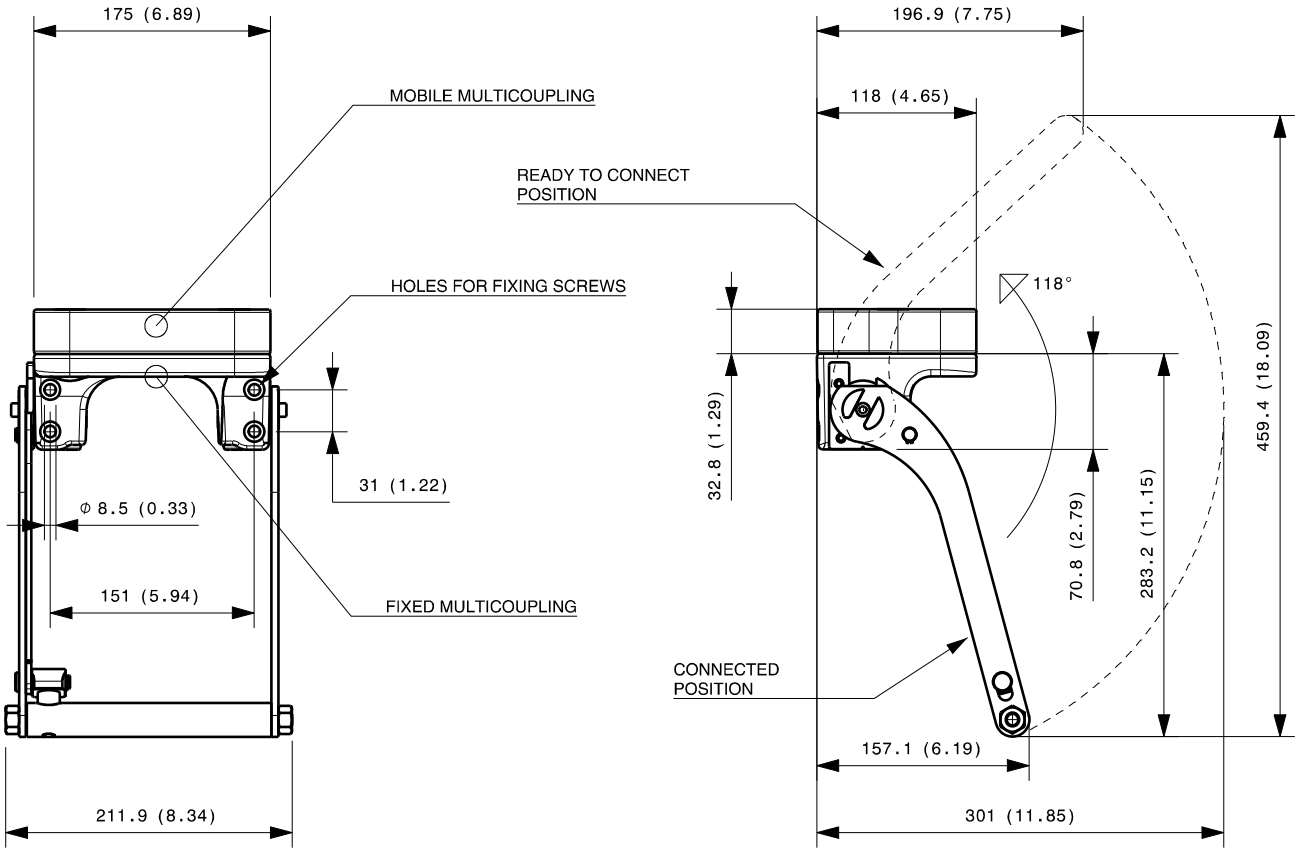
MultiCoupling (couplings included)		
Code	Name	Description
870015075	MULTI COMPLETE GR3 1A-2E	1 FAP9D 3/8 BSP - 2 FAP21 1 BSP - CAP
870015083	MULTI COMPLETE GR3 1A-2E	1 FAP9D 3/8 BSP - 2 FAP21 1-1/4 BSP - CAP
870016052	MULTI COMPLETE GR3 1A-2E	1 FAP9D 1/2 BSP - 2 FAP21 1 BSP - CAP
870016001	MULTI COMPLETE GR3 2E	2 FAP21 1-1/4 BSP - CAP
870015175	MULTI FIX GR3 1A-2E	1 FAP9D 3/8 BSP - 2 FAP21 1 BSP
870016101	MULTI FIX GR3 2E	2 FAP21 1-1/4 BSP
870016197	MULTI FIX GR3 2E	2 FAP21 1 BSP
870015275	MULTI MOBILE GR3 1A-2E	1 FAP9D 3/8 BSP - 2 FAP21 1 BSP
870016201	MULTI MOBILE GR3 2E	2 FAP21 1-1/4 BSP
870016297	MULTI MOBILE GR3 2E	2 FAP21 1 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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

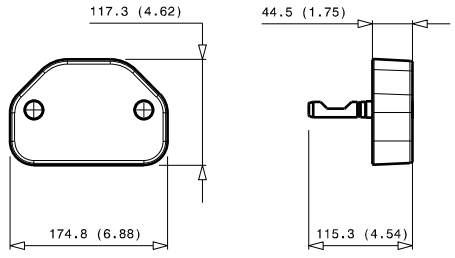
Fixed and mobile multicoupling

5,7 Kg and 2,8 Kg



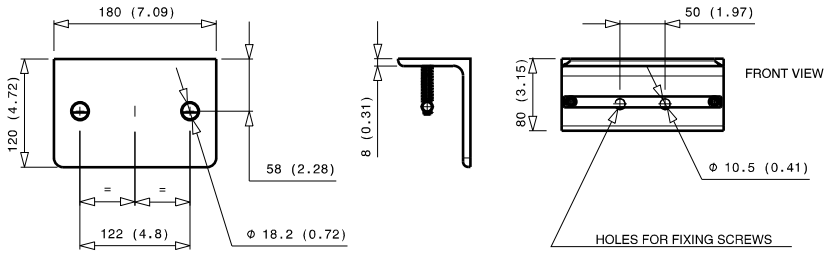
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling

2,4 Kg



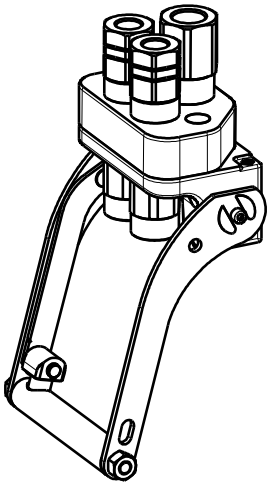
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GR3 2B-1C-2EC

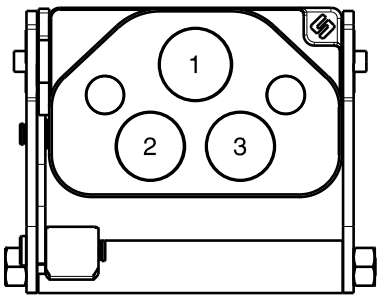
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”	1/2”	5/8”	3/4”	1”
GRI3	18000 N		2	1		

DRAWING





CONFIGURATIONS



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

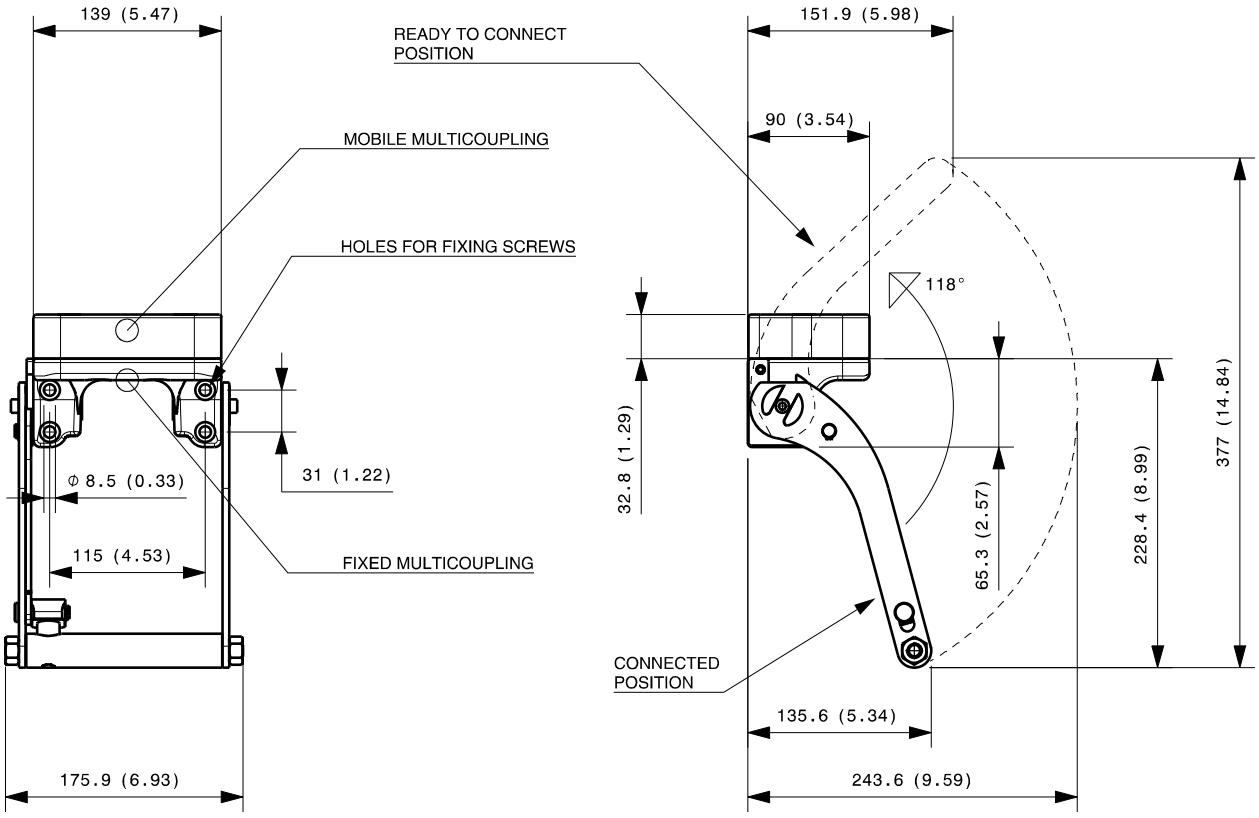
MultiCoupling (couplings included)		
Code	Name	Description
870015065	MULTI COMPLETE GR3 2B-1C	2 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - CAP
870015165	MULTI FIX GR3 2B-1C	2 FAP13 1/2 BSP - 1 FAP15 3/4 BSP
870018100	MULTI FIX GR3 1B-1C-1EC	1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 1EC6
870015265	MULTI MOBILE GR3 2B-1C	2 FAP13 1/2 BSP - 1 FAP15 3/4 BSP
870018200	MULTI MOBILE GR3 1B-1C-1EC	1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 1EC6

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 139x90
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	SPARE KIT LEVER GROUP GR 200x176

Custom configurations available upon request

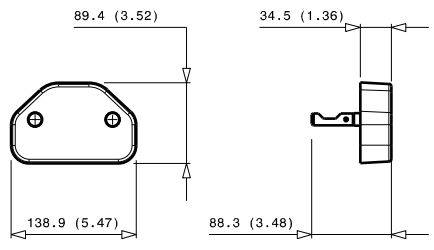
Fixed and mobile multicoupling

3,7 Kg and 1,7 Kg



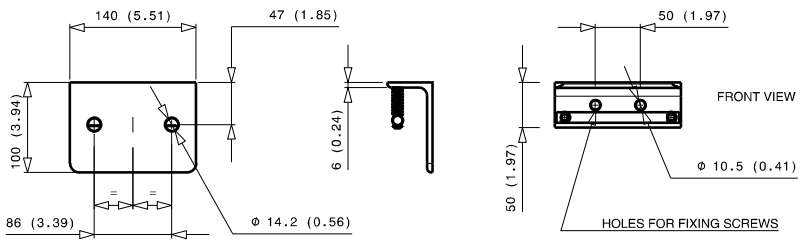
Dimensions in millimeters (inch)

Cap for fixed multicoupling *0,6 Kg*



Parking station for mobile multicoupling

1,1 Kg



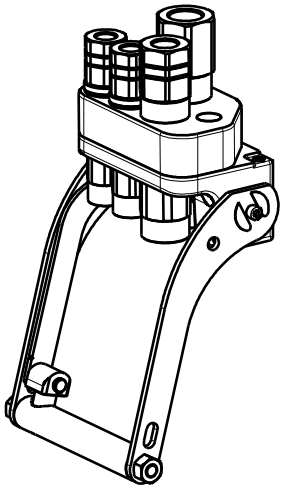
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GR4 2A-1B-1C-2EC

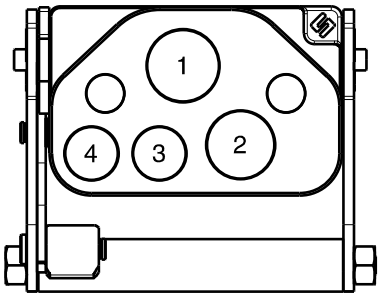
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GRI4SBZN	18000 N	2	D	1	1		

DRAWING





CONFIGURATIONS



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

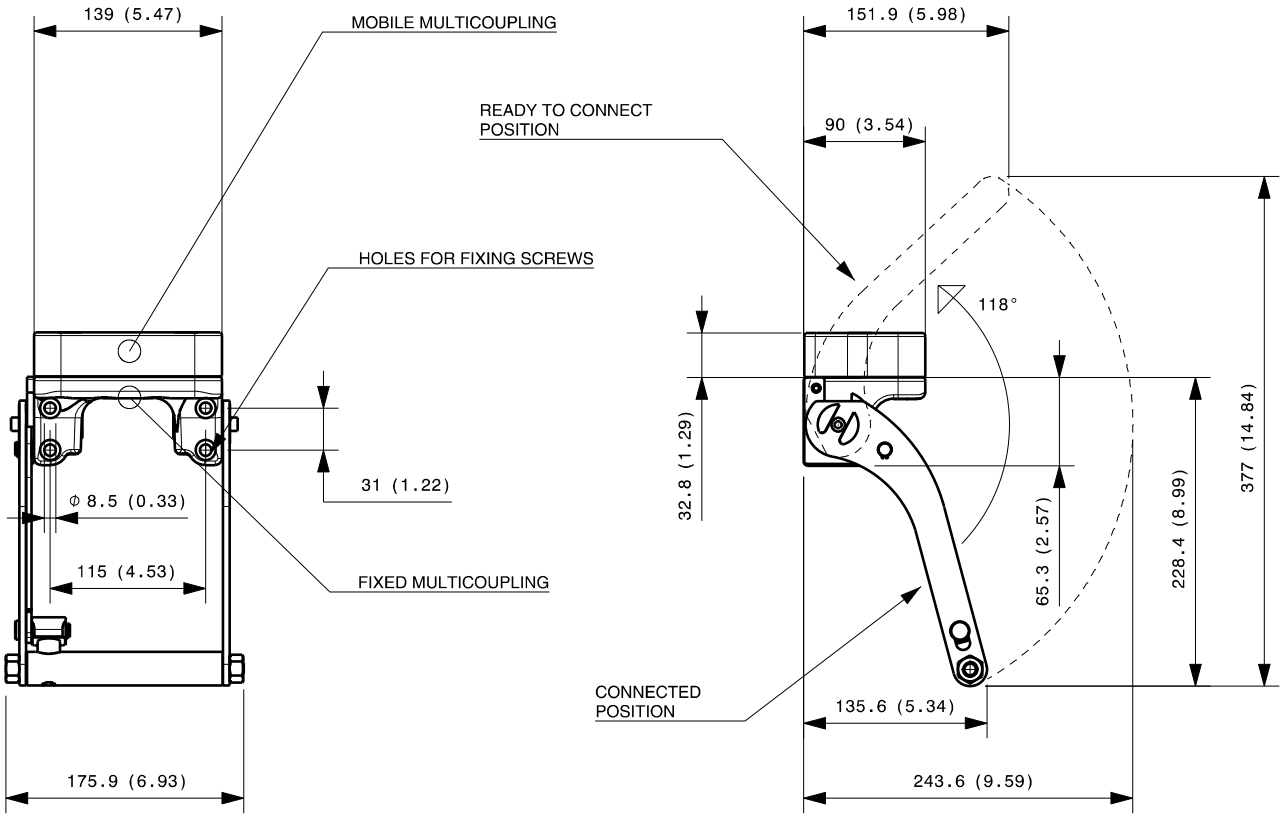
MultiCoupling (couplings included)		
Code	Name	Description
870015091	MULTI COMPLETE GR4 1B-1C	1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - CAP
870015191	MULTI FIX GR4 1B-1C	1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP
870015291	MULTI MOBILE GR4 1B-1C	1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP

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 V02
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	SPARE KIT LEVER GROUP GR 200x176

Custom configurations available upon request

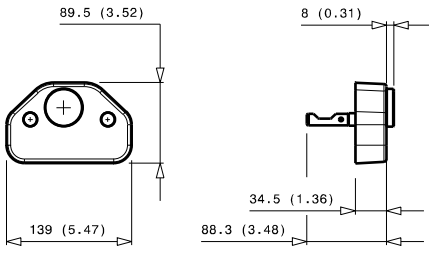
Fixed and mobile multicoupling

3,7 Kg and 1,7 Kg



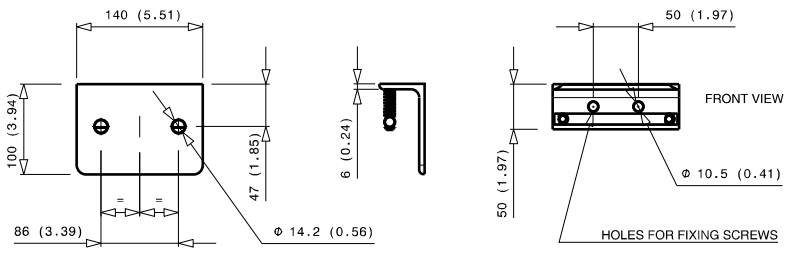
Dimensions in millimeters (inch)

Cap for fixed multicoupling *0,6 Kg*



Parking station for mobile multicoupling

1,1 Kg



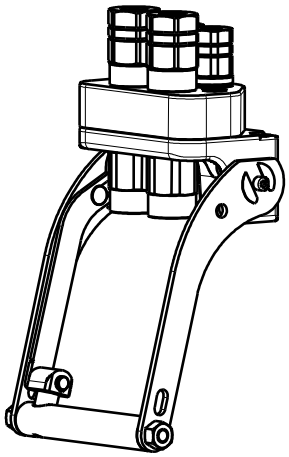
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GR4 2A-2B-2EC

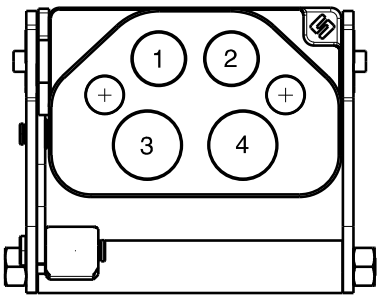
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GRB4ZN	18000 N	2	D	2			

DRAWING





CONFIGURATIONS



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

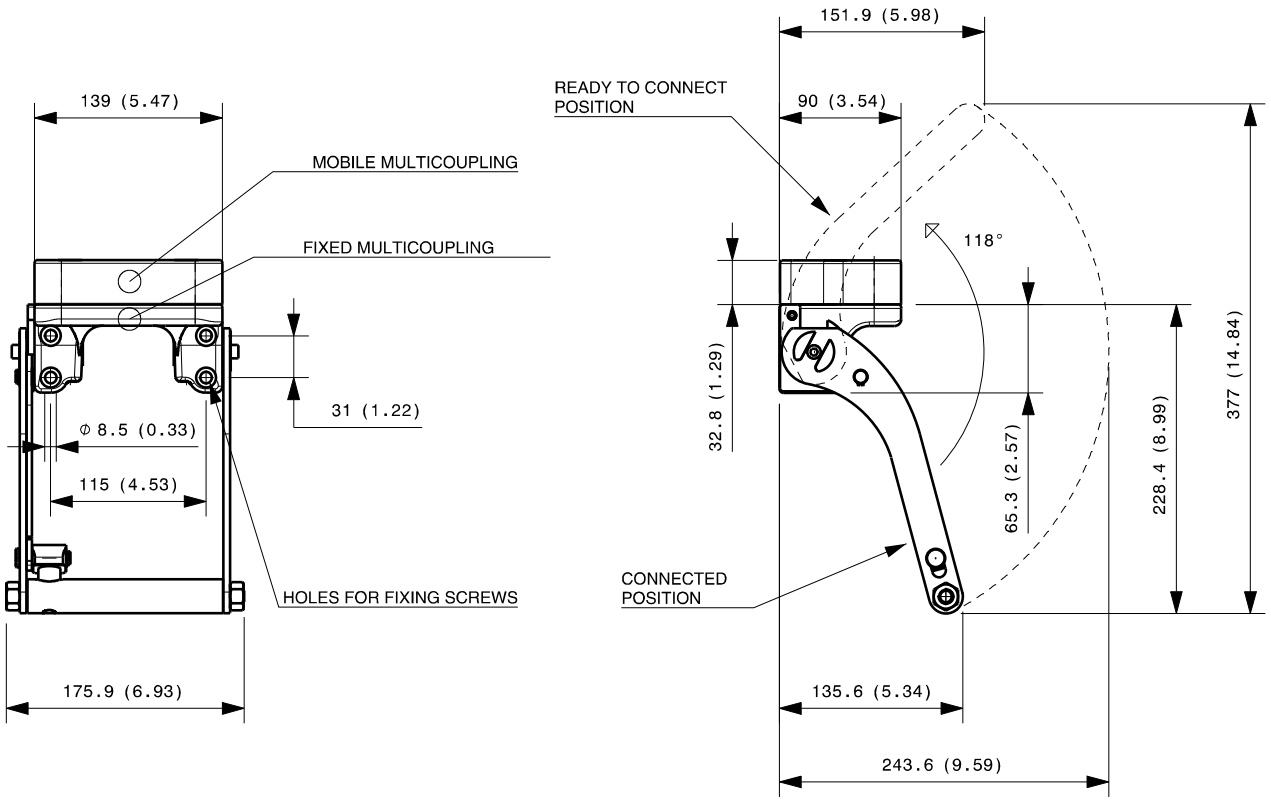
MultiCoupling (couplings included)		
Code	Name	Description
870016014	MULTI COMPLETE GR4 2A-2B	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - CAP
870016073	MULTI COMPLETE GR4 2A-1B	2 FAP9D 3/8 NPT - 1 FAP13 1/2 NPT - CAP
870016081	MULTI COMPLETE GR4 2B-2EC	1 FAP13 1/2 BSP - 1 FAQ13 1/2 BSP - 2EC7 - CAP
870016095	MULTI COMPLETE GR4 1A-2B-1EC	1 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 1EC7 - 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 139x90
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	SPARE KIT LEVER GROUP GR 200x176

Custom configurations available upon request

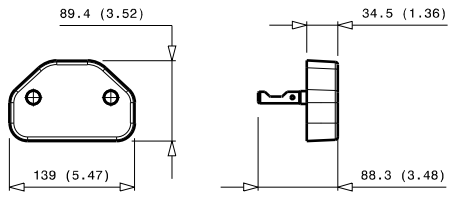
Fixed and mobile multicoupling

3,7 Kg and 1,8 Kg



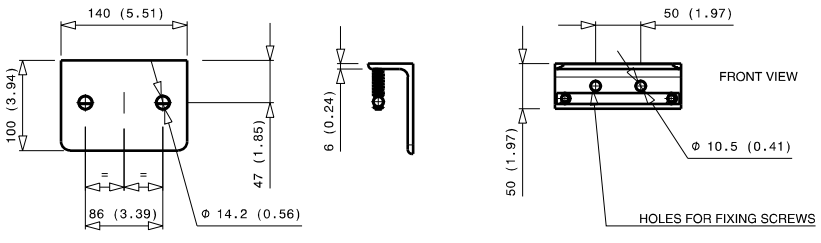
Dimensions in millimeters (inch)

Cap for fixed multicoupling *0,6 Kg*



Parking station for mobile multicoupling

1,1 Kg



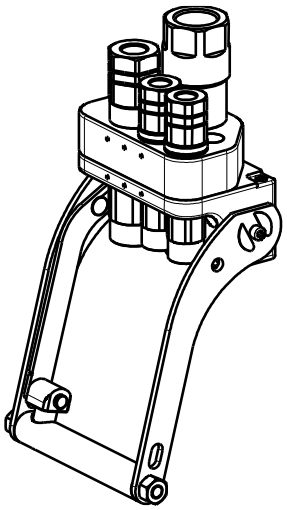
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GR4 2A-1B-1D-2EC

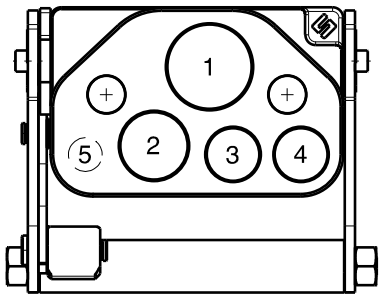
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GR4MRZN	18000 N	2	D	1		1	

DRAWING





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.

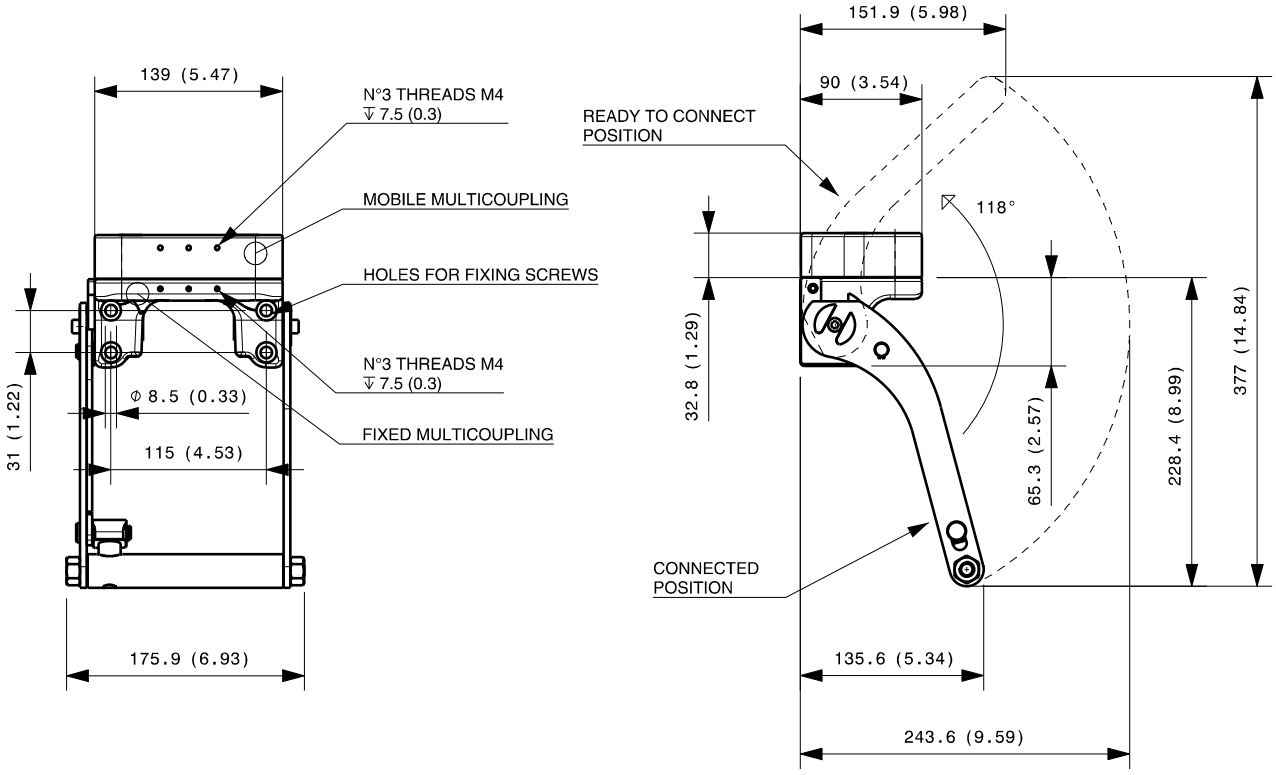
MultiCoupling (couplings included)		
Code	Name	Description
870016015	MULTI COMPLETE GR4 2A-1B-1D	2 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP17 1 BSP - CAP
870016115	MULTI FIX GR4 2A-1B-1D	2 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP17 1 BSP
870016215	MULTI MOBILE GR4 2A-1B-1D	2 FAP9D 3/8 BSP - 1 FAP13 1/2 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 V01
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	SPARE KIT LEVER GROUP GR 200x176
815701300	KIT PLUG FOR HOLE D16 MULTI FIX GR4 2A-1B-1D-2EC

Custom configurations available upon request

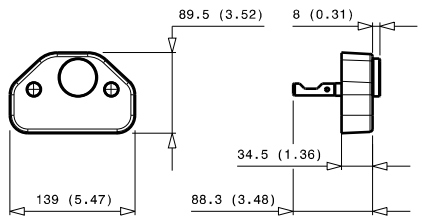
Fixed and mobile multicoupling

3,6 Kg and 1,7 Kg



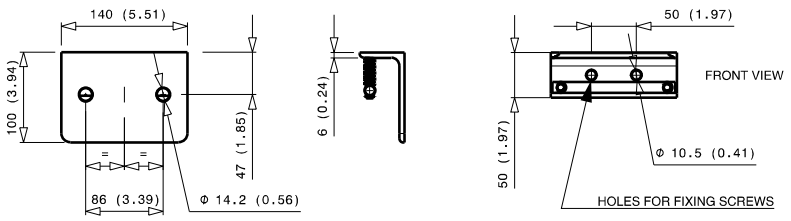
Dimensions in millimeters (inch)

Cap for fixed multicoupling *0,6 Kg*



Parking station for mobile multicoupling

1,1 Kg



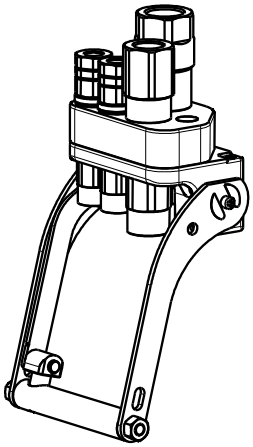
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GR4 2A-1C-1D-2EC

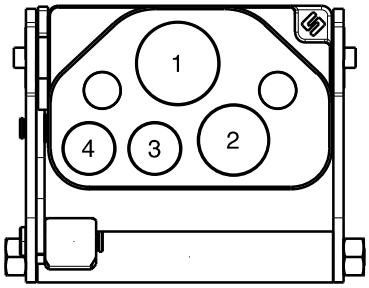
Previous description	Max. Resistance	Body size	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
GRI4ZN	18000 N		2	D		1	1	



DRAWING



CONFIGURATIONS



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

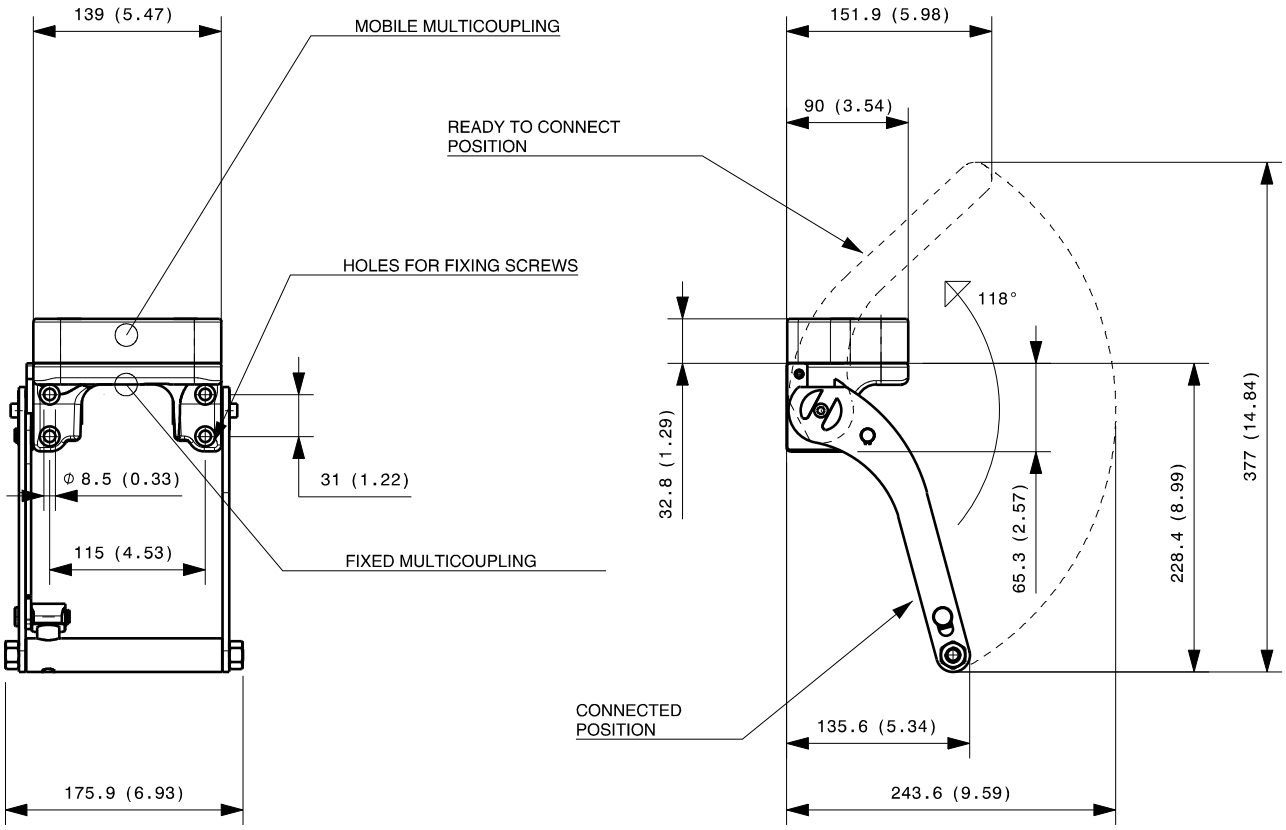
MultiCoupling (couplings included)		
Code	Name	Description
870015058	MULTI COMPLETE GR4 2A-1C-1D	2 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1 BSP - CAP
870015060	MULTI COMPLETE GR4 1A-1C-1D	1 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1 BSP - CAP
870015074	MULTI COMPLETE GR4 1C-1D	1 FAP15 3/4 BSP - 1 FAP17 1 BSP - CAP
870015086	MULTI COMPLETE GR4 1C-1D-2EC	1 FAP15 3/4 BSP - 1 FAP17 1 BSP - 2EC6 - CAP
870016025	MULTI COMPLETE GR4 1D-1EC	1 FAP17 3/4 BSP - 1EC6 - CAP
870016026	MULTI COMPLETE GR4 2A-1D	2 FAP9D 1/2 BSP - 1 FAP17 1 BSP - 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
870015160	MULTI FIX GR4 1A-1C-1D	1 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1 BSP
870016126	MULTI FIX GR4 2A-1D	2 FAP9D 1/2 BSP - 1 FAP17 1 BSP
870016127	MULTI FIX GR4 1A-1C-1D	1 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - 1 FAP17 3/4 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
870016225	MULTI MOBILE GR4 1D-1EC	1 FAP17 3/4 BSP - 1EC6
870016226	MULTI MOBILE GR4 2A-1D	2 FAP9D 1/2 BSP - 1 FAP17 1 BSP
870016227	MULTI MOBILE GR4 1A-1C-1D	1 FAP9D 3/8 BSP - 1 FAP15 3/4 BSP - 1 FAP17 3/4 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 V02
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	SPARE KIT LEVER GROUP GR 200x176

Custom configurations available upon request

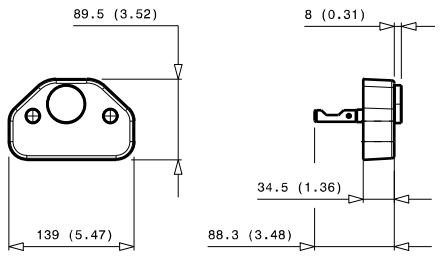
Fixed and mobile multicoupling

3,6 Kg and 1,7 Kg



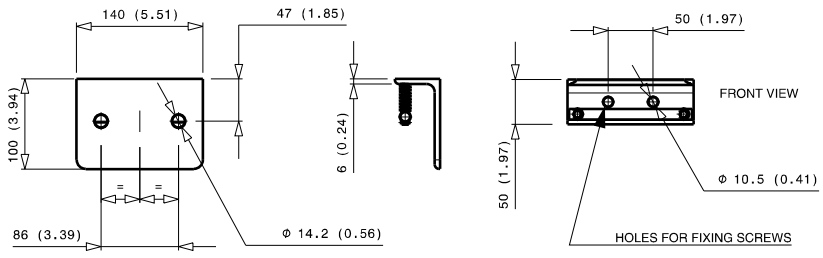
Dimensions in millimeters (inch)

Cap for fixed multicoupling *0,6 Kg*



Parking station for mobile multicoupling

1,1 Kg



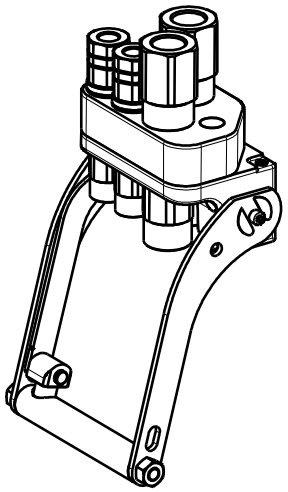
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GR4 2A-2C-2EC

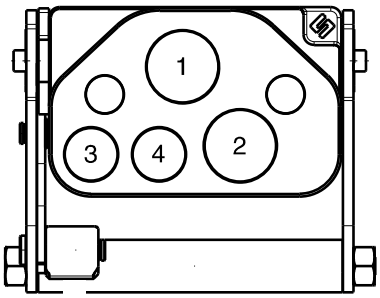
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GRI4TBZN	18000 N	2	D		2		

DRAWING





CONFIGURATIONS



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

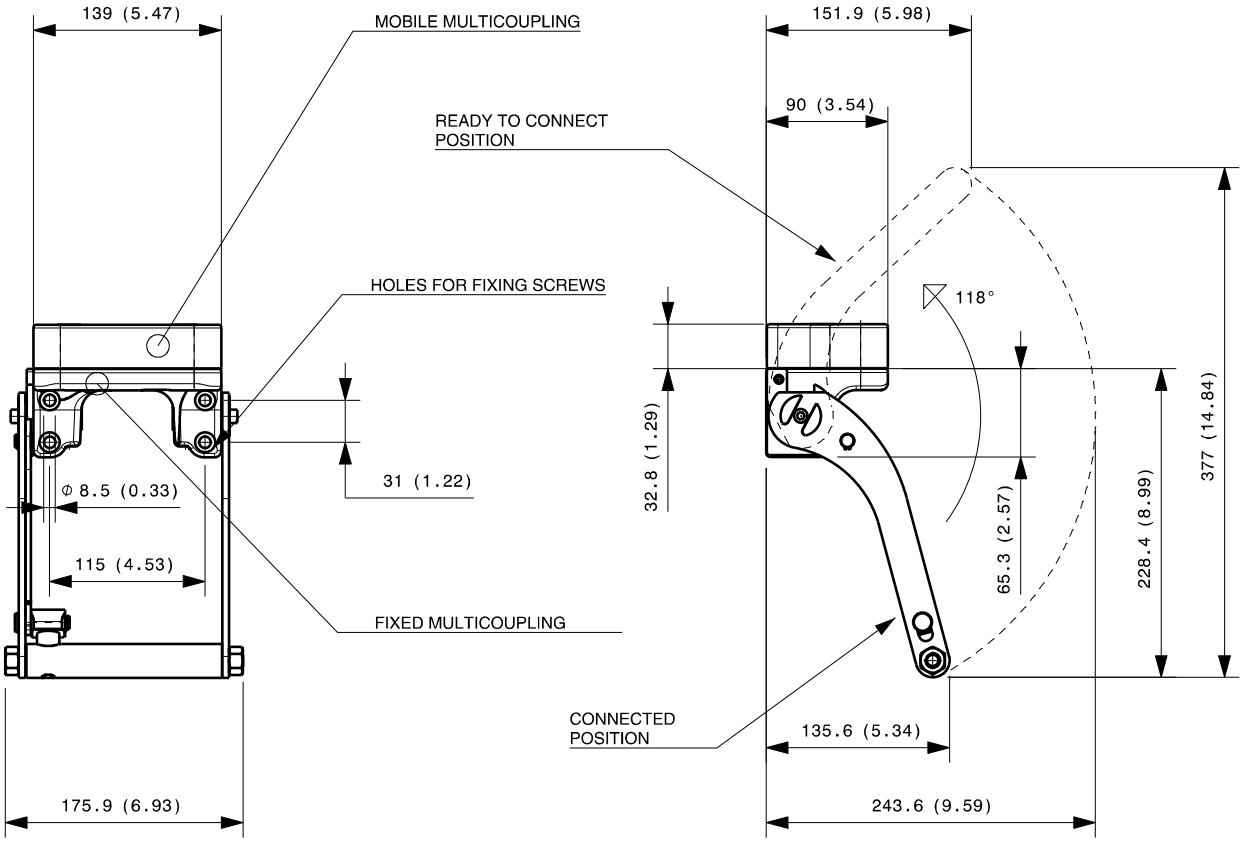
MultiCoupling (couplings included)		
Code	Name	Description
870016008	MULTI COMPLETE GR4 1A-2C-1EC	1 FAP9D 1/2 BSP - 2 FAP15 3/4 BSP - 1EC7 - CAP
870016041	MULTI COMPLETE GR4 1A-2C	1 FAP9D 3/8 NPT - 2 FAP15 3/4 NPT - CAP
870016060	MULTI COMPLETE GR4 1A-2C	1 FAP9D 3/8 SAE - 2 FAP15 3/4 SAE - CAP
870016108	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
870016129	MULTI FIX GR4 1A-2C-1EC	1 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP - 1EC7
870016208	MULTI MOBILE GR4 1A-2C-1EC	1 FAP9D 1/2 BSP - 2 FAP15 3/4 BSP - 1EC7
870016211	MULTI MOBILE GR4 1A-2C	1 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP
870016229	MULTI MOBILE GR4 1A-2C-1EC	1 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP - 1EC7
870016241	MULTI MOBILE GR4 1A-2C	1 FAP9D 3/8 NPT - 2 FAP15 3/4 NPT
870016260	MULTI MOBILE GR4 1A-2C	1 FAP9D 3/8 SAE - 2 FAP15 3/4 SAE

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 V02
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	SPARE KIT LEVER GROUP GR 200x176

Custom configurations available upon request

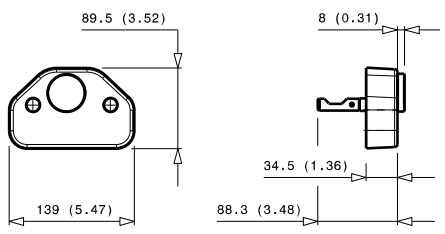
Fixed and mobile multicoupling

3,7 Kg and 1,7 Kg



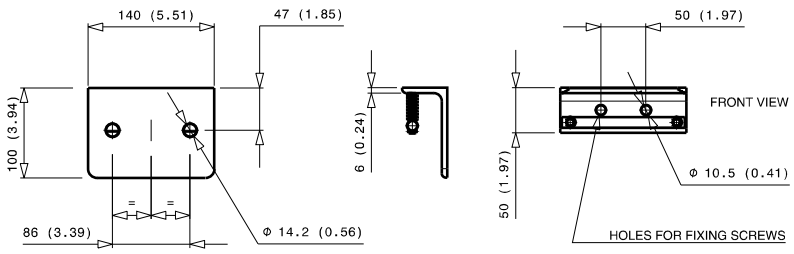
Dimensions in millimeters (inch)

Cap for fixed multicoupling *0,6 Kg*



Parking station for mobile multicoupling

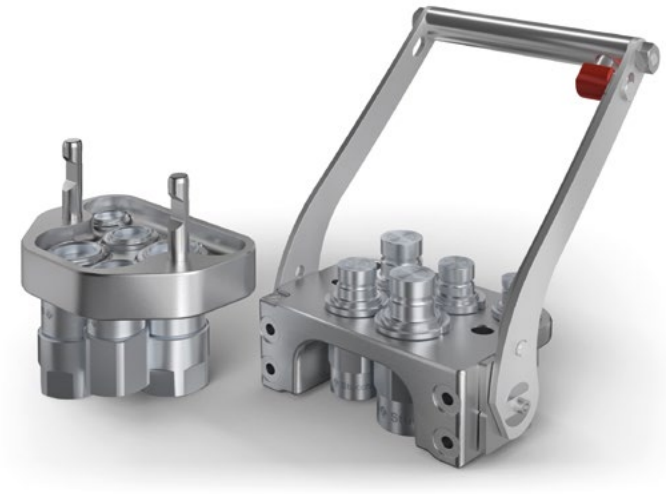
1,1 Kg



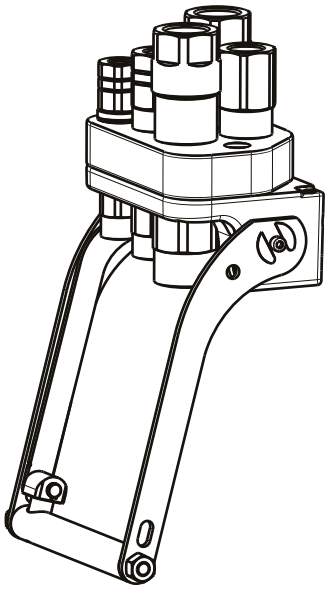
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GR5 1A-1B-1C-2D-1EC

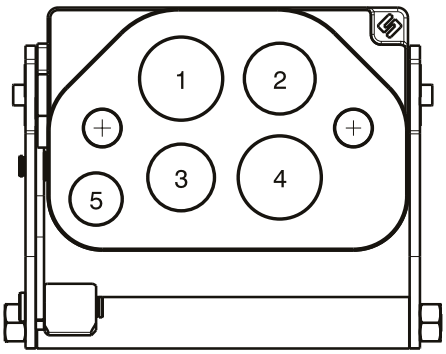
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GRP6ZN	23000 N	1	D	1	1	2	



DRAWING



CONFIGURATIONS



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

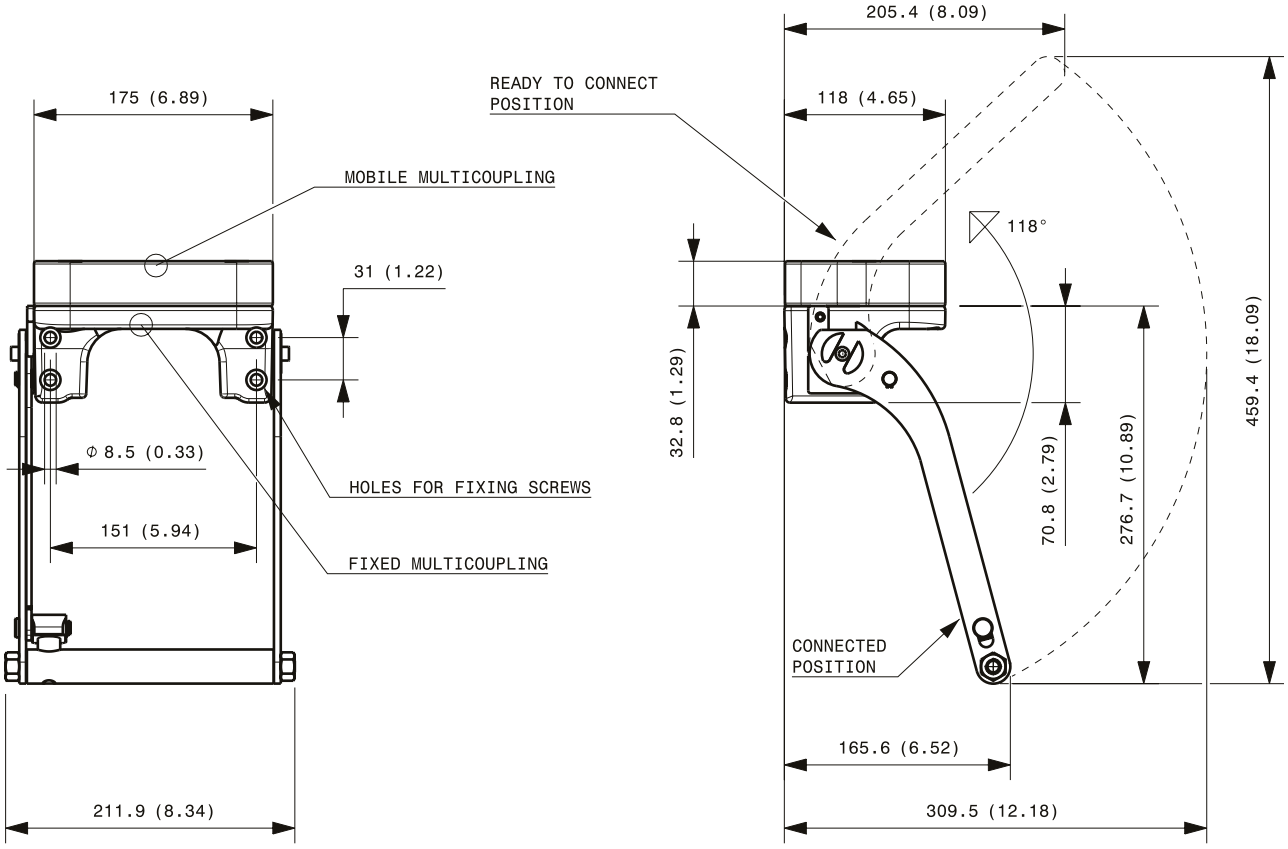
MultiCoupling (couplings included)		
Code	Name	Description
870016061	MULTI COMPLETE GR5 1A-1B-1C-2D	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 2 FAP17 1 BSP - CAP
870016161	MULTI FIX GR5 1A-1B-1C-2D	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 2 FAP17 1 BSP
870016261	MULTI MOBILE GR5 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
806000432	MULTI FIX EMPTY GR5 1A-1B-1C-2D-1EC
806000433	MULTI MOBILE EMPTY GR5 1A-1B-1C-2D-1EC
815606258	CAP FIX MULTICOUPLING GR 175x117 V01
815606259	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V01
815700999	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

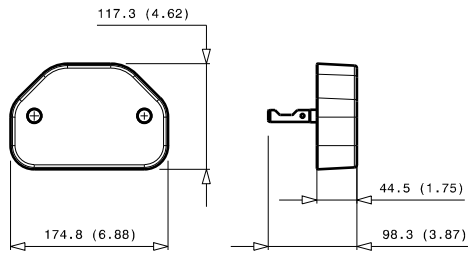
Fixed and mobile multicoupling

5,7 Kg and 2,7 Kg

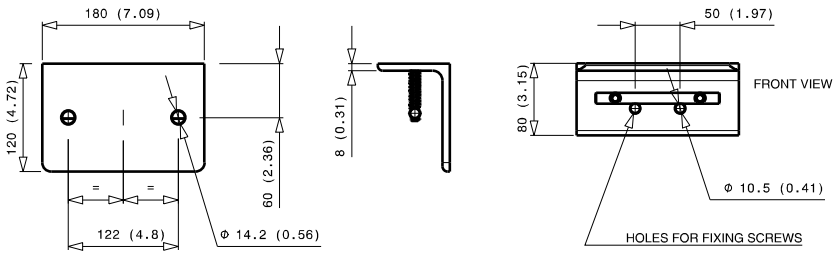


Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,1 Kg*



Parking station for mobile multicoupling *2,3 Kg*



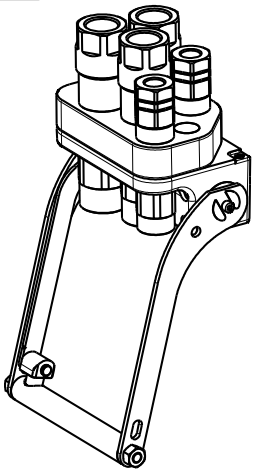
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GR5 2B-3D-2EC

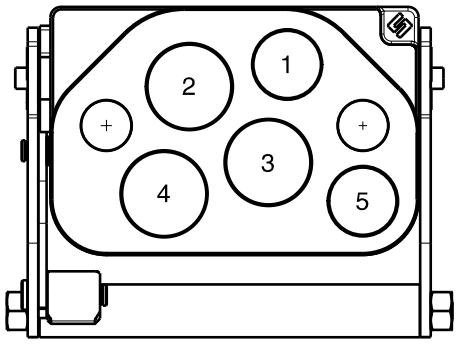
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”	1/2”	5/8”	3/4”	1”
GR5AAZN	23000 N		2		3	



DRAWING



CONFIGURATIONS



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

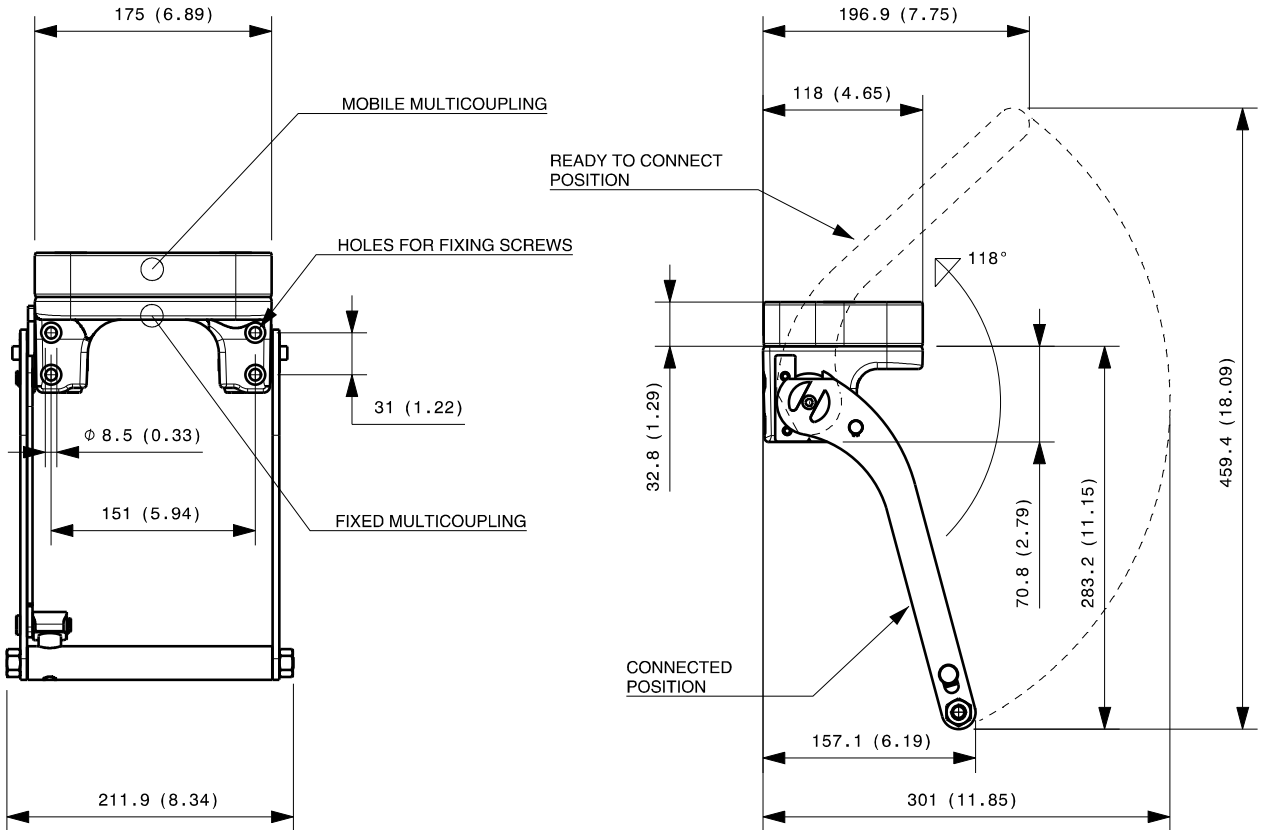
MultiCoupling (couplings included)		
Code	Name	Description
870015080	MULTI COMPLETE GR5 2B-3D	2 FAP13 1/2 BSP - 3 FAP17 3/4 BSP - CAP
870016033	MULTI COMPLETE GR5 2B-1D	2 FAP13 3/4 BSP - 1 FAP17 1 BSP - CAP
870016046	MULTI COMPLETE GR5 1B-3D	1 FAP13 3/4 BSP - 3 FAP17 1 BSP - CAP
870016072	MULTI COMPLETE GR5 1B-2D	1 FAP13 1/2 NPT - 1 FAP17 3/4 NPT - 1 FAP17 1 NPT - CAP
870016074	MULTI COMPLETE GR5 1B-3D	1 FAP13 1/2 NPT - 2 FAP17 3/4 NPT - 1 FAP17 1 NPT - CAP
870015180	MULTI FIX GR5 2B-3D	2 FAP13 1/2 BSP - 3 FAP17 3/4 BSP
870016122	MULTI FIX GR5 3D-2EC	3 FAP17 1 BSP - 2 EC6
870016147	MULTI FIX GR5 3D	3 FAP17 3/4 BSP
870016154	MULTI FIX GR5 1B-3D	1 FAP13 1/2 BSP - 3 FAP17 3/4 BSP
870016153	MULTI FIX GR5 3D	3 FAP17 1 BSP
870016184	MULTI FIX GR5 3D-2EC	3 FAP17 3/4 BSP - 2 EC6
870016189	MULTI FIX GR5 2B-2D	2 FAP13 1/2 BSP - 2 FAP17 1 BSP
870016246	MULTI MOBILE GR5 1B-3D	1 FAP13 3/4 BSP - 3 FAP17 1 BSP
870015280	MULTI MOBILE GR5 2B-3D	2 FAP13 1/2 BSP - 3 FAP17 3/4 BSP
870016222	MULTI MOBILE GR5 3D-2EC	3 FAP17 1 BSP - 2 EC6
870016247	MULTI MOBILE GR5 3D	3 FAP17 3/4 BSP
870016254	MULTI MOBILE GR5 1B-3D	1 FAP13 1/2 BSP - 3 FAP17 3/4 BSP
870016253	MULTI MOBILE GR5 3D	3 FAP17 1 BSP
870016284	MULTI MOBILE GR5 3D-2EC	3 FAP17 3/4 BSP - 2 EC6
870016289	MULTI MOBILE GR5 2B-2D	2 FAP13 1/2 BSP - 2 FAP17 1 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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

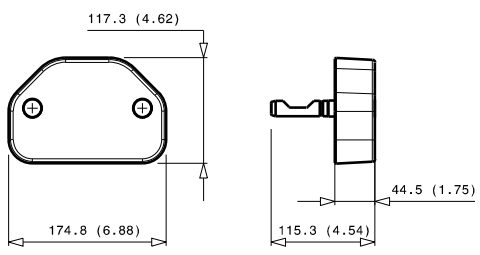
Fixed and mobile multicoupling

5,5 Kg and 2,7 Kg

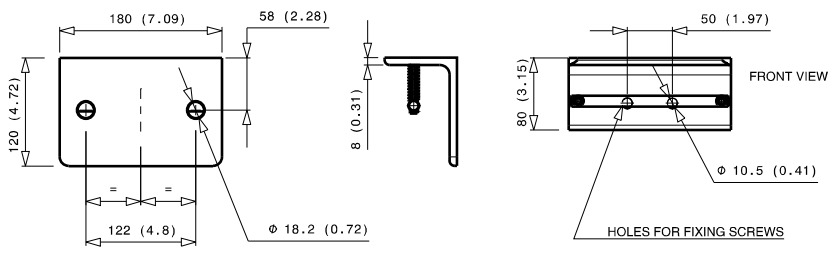


Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling *2,4 Kg*



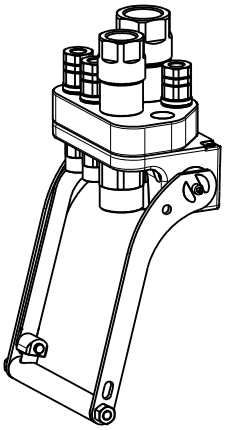
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GR5 3A-1D-1E-2EC

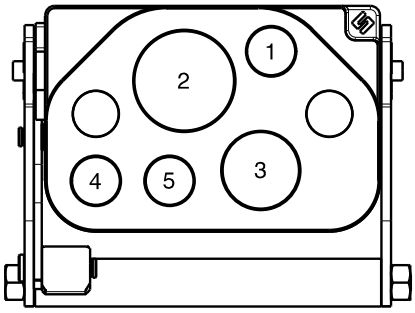
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GRD5ZN	23000 N	3	D			1	1



DRAWING



CONFIGURATIONS



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

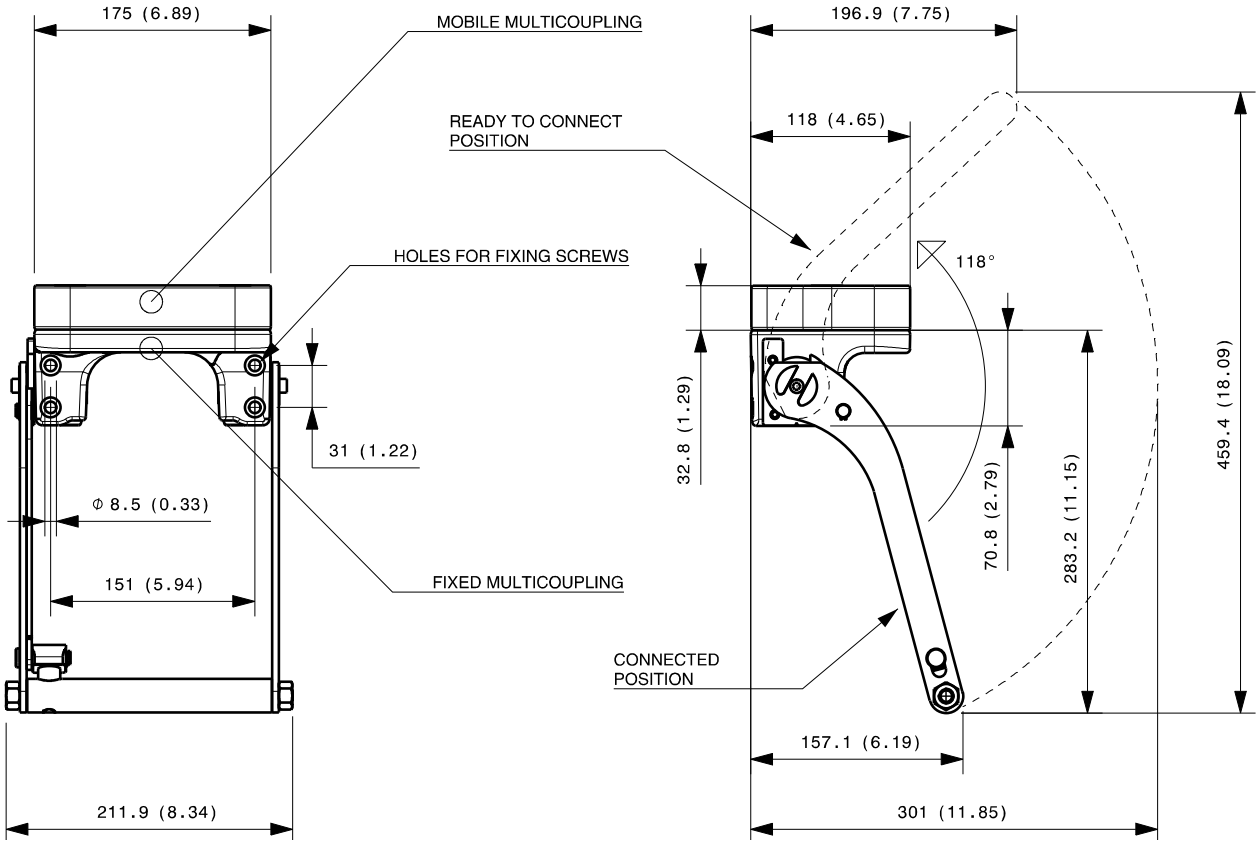
MultiCoupling (couplings included)		
Code	Name	Description
870015061	MULTI COMPLETE GR5 2A-1D-1E	2 FAP9D 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP - CAP
870015066	MULTI COMPLETE GR5 2A-1D-1E	2 FAP9D 3/8 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP - CAP
870015079	MULTI COMPLETE GR5 1A-1D-1E-1EC	1 FAP9D 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
870016030	MULTI COMPLETE GR5 2A-1D-1E-1EC6	1 FAP9D 3/8 BSP - 1 FAP9D 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP - 1EC6 - CAP
870016042	MULTI COMPLETE GR5 1A-1D-1E	1 FAP9D 3/8 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP - CAP
870016043	MULTI COMPLETE GR5 2A-1E	2 FAP9D 3/8 BSP - 1 FAP21 1-1/4 BSP - CAP
870015161	MULTI FIX GR5 2A-1D-1E	2 FAP9D 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP
870015184	MULTI FIX GR5 1D-1E-2EC	1 FAP17 3/4 BSP - 1 FAP21 1 BSP - 2EC6
870015166	MULTI FIX GR5 2A-1D-1E	2 FAP9D 3/8 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP
870015199	MULTI FIX GR5 2A-1D-1E	2 FAP9D 3/8 BSP - 1 FAP17 3/4 BSP - 1 FAP21 1 BSP
870016100	MULTI FIX GR5 3A-1D-1E	3 FAP9D 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP
870016130	MULTI FIX GR5 2A-1D-1E-1EC	1 FAP9D 3/8 BSP - 1 FAP9D 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP - 1EC6
870016185	MULTI FIX GR5 2A-1D-1E-1EC	2 FAP9D 1/4 BSP - 1 FAP17 3/4 BSP - 1 FAP21 1-1/4 BSP - 1EC6
870015261	MULTI MOBILE GR5 2A-1D-1E	2 FAP9D 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP
870015266	MULTI MOBILE GR5 2A-1D-1E	2 FAP9D 3/8 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
870016230	MULTI MOBILE GR5 2A-1D-1E-1EC	1 FAP9D 3/8 BSP - 1 FAP9D 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP - 1EC6
870016285	MULTI MOBILE GR5 2A-1D-1E-1EC	2 FAP9D 1/4 BSP - 1 FAP17 3/4 BSP - 1 FAP21 1-1/4 BSP - 1EC6
870016200	MULTI MOBILE GR5 3A-1D-1E	3 FAP9D 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

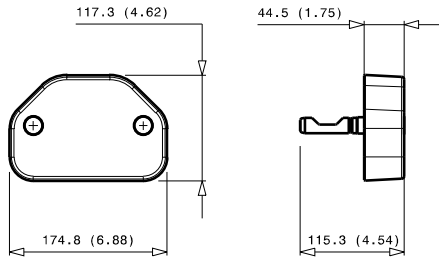
Fixed and mobile multicoupling

5,6 Kg and 2,8 Kg

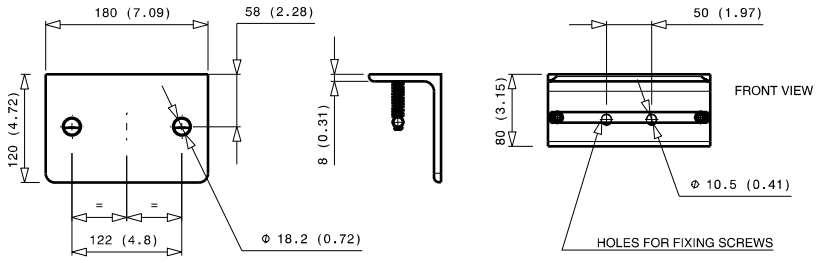


Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling *2,4 Kg*



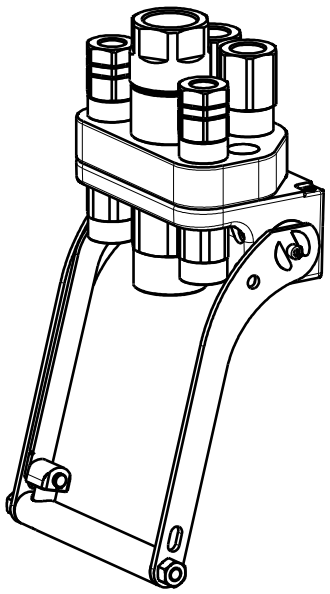
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GR5 2B-2C-1E-2EC

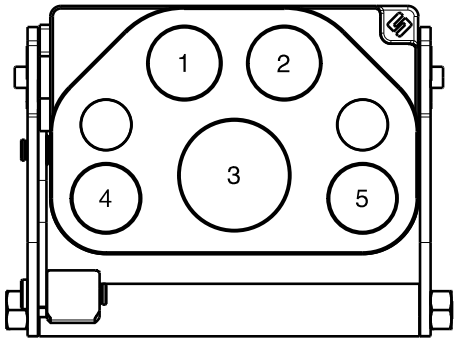
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”	1/2”	5/8”	3/4”	1”
GRZ5ZN	23000 N		2	2		1

DRAWING





CONFIGURATIONS



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

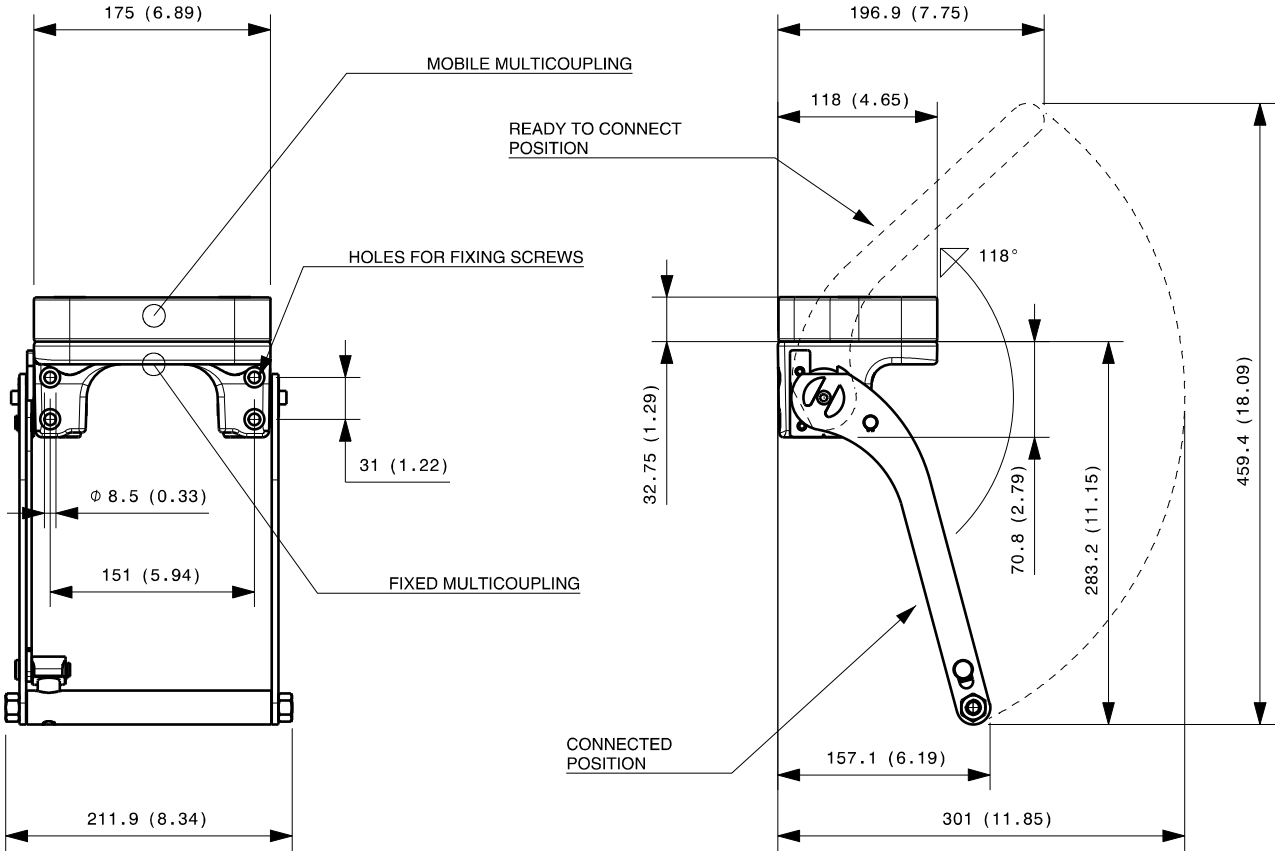
MultiCoupling (couplings included)		
Code	Name	Description
870016051	MULTI COMPLETE GR5 2B-1C-1E	2 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 1FAP21 1 BSP - CAP
870015063	MULTI COMPLETE GR5 2B-2C-1E	2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP - 1 FAP21 1-1/4 BSP - CAP
870015097	MULTI COMPLETE GR5 2C-1E	2 FAP15 3/4 BSP - 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
870016258	MULTI MOBILE GR5 1B-1C-1E	1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 1 FAP21 1 BSP
870016257	MULTI MOBILE GR5 1C-1E	1 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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

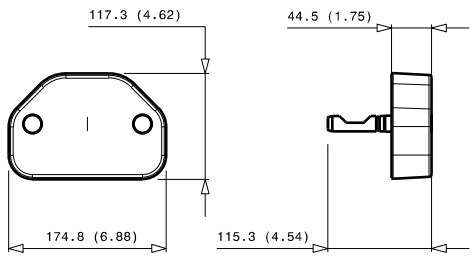
Fixed and mobile multicoupling

5,5 Kg and 2,6 Kg

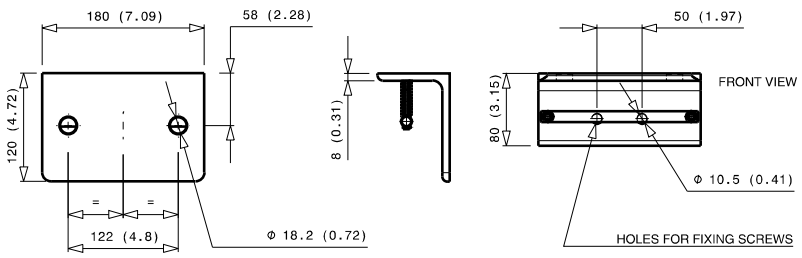


Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling *2,4 Kg*



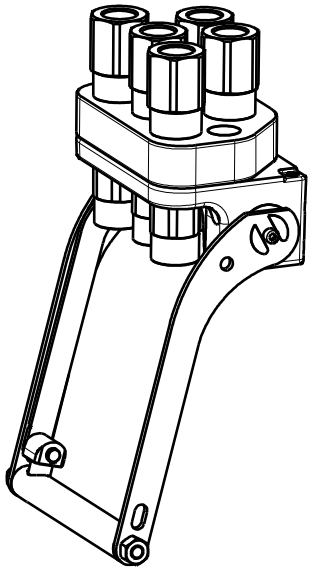
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GR5 5C

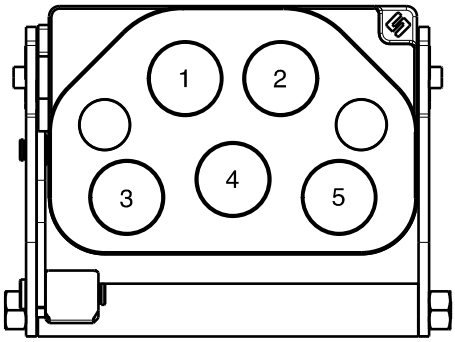
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”	1/2”	5/8”	3/4”	1”
GR5-15ZN	23000 N			5		

DRAWING





CONFIGURATIONS



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

* upon request

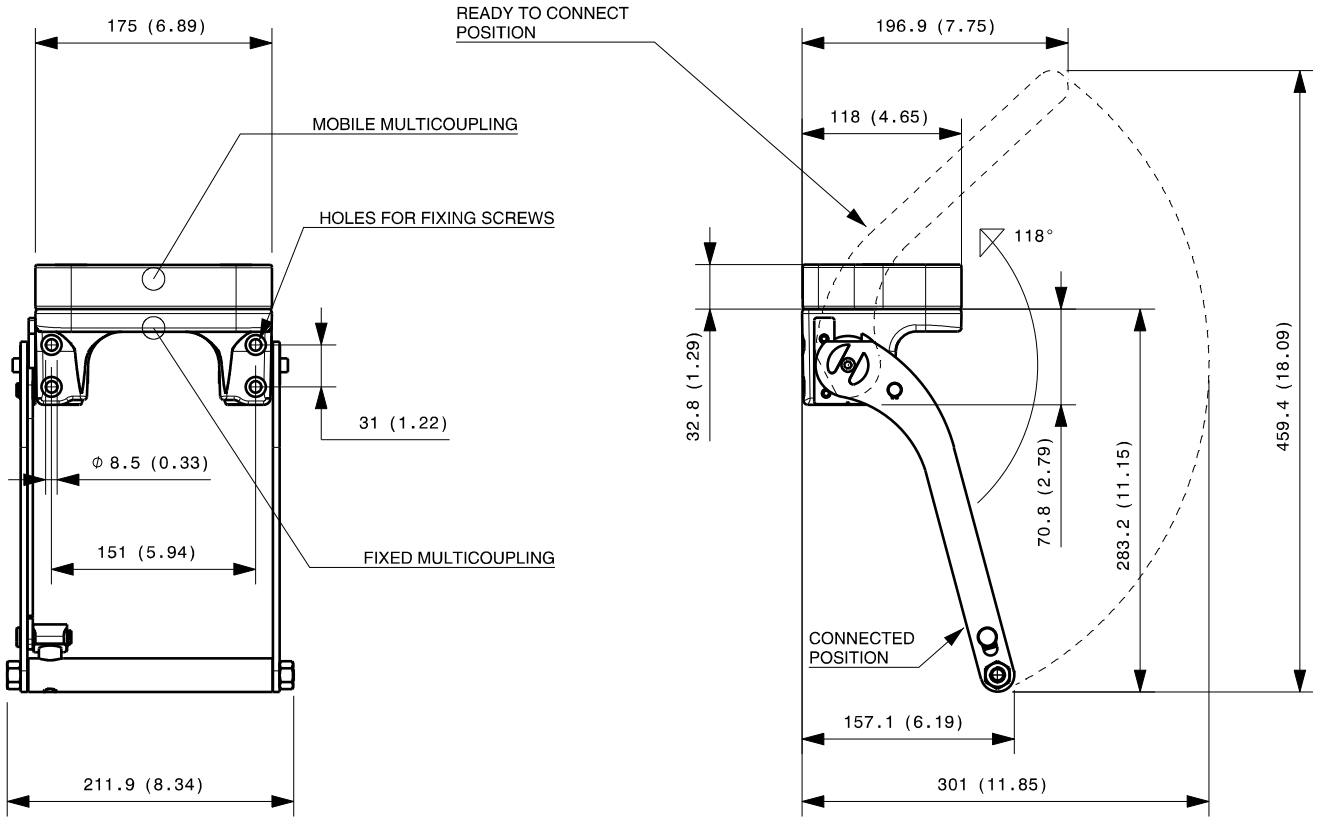
MultiCoupling (couplings included)		
Code	Name	Description
870016010	MULTI COMPLETE GR5 5C	5 FAP15 3/4 BSP - CAP
870016110	MULTI FIX GR5 5C	5 FAP15 3/4 BSP
870016210	MULTI MOBILE GR5 5C	5 FAP15 3/4 BSP

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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

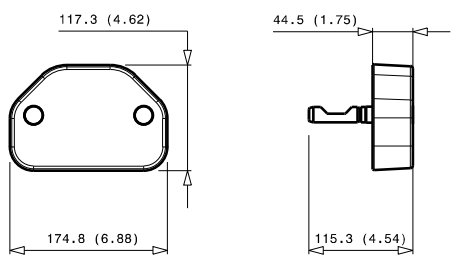
Fixed and mobile multicoupling

5,6 Kg and 2,8 Kg



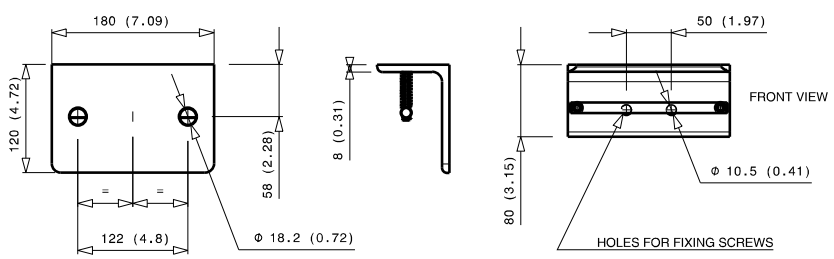
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling

2,4 Kg



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GR6 6A-2EC

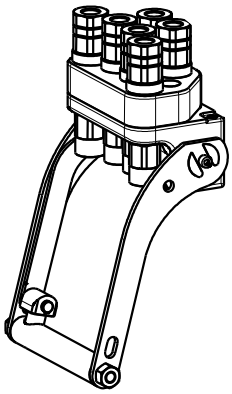
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GR6-9ZN	18000 N	6	A				

BOP

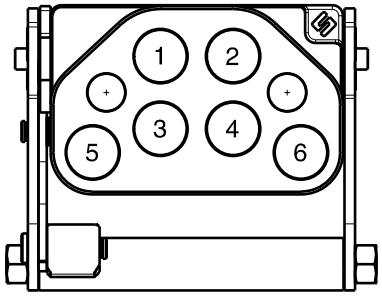


For full list of BOP products, refer to the BOP section at page 189.

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

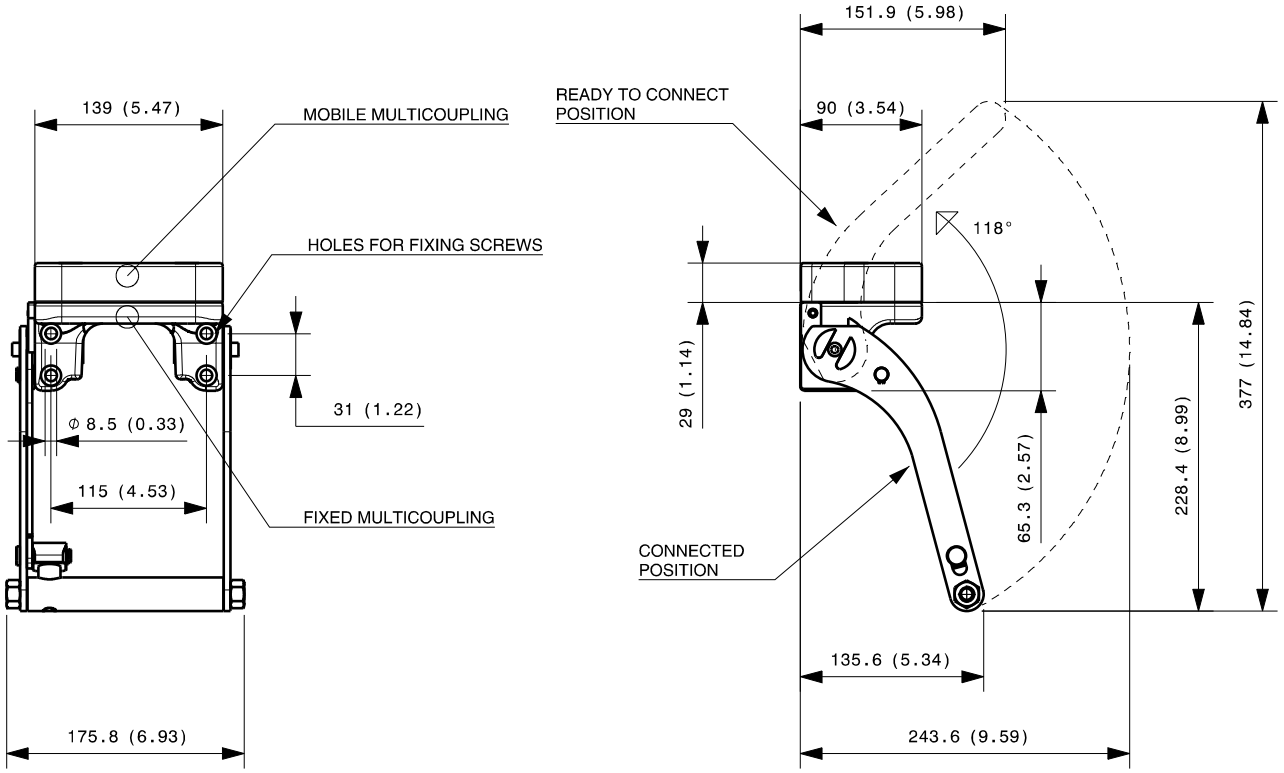
MultiCoupling (couplings included)		
Code	Name	Description
870000074	MULTI COMPLETE GR6 5A	5 FAP9A 3/8 BSP - CAP
870000075	MULTI COMPLETE GR6 6A	6 FAP9A 1/2 BSP - CAP
870000079	MULTI COMPLETE GR6 6A	6 FAP9A 3/8 BSP - CAP
870000080	MULTI COMPLETE GR6 4A	4 FAP9A 1/2 BSP - CAP
870000086	MULTI COMPLETE GR6 4A-1EC	4 FAP9A 1/2 NPT - 1EC7 - CAP
870000087	MULTI COMPLETE GR6 5A	2 FAP9A 3/8 NPT - 3 FAP9A 1/2 NPT - CAP
870000088	MULTI COMPLETE GR6 6A	6 FAP9A 3/8 NPT - CAP
870015096	MULTI COMPLETE GR6 5A	5 FAP9A 1/4 BSP - CAP
870016044	MULTI COMPLETE GR6 4A	4 FAP9A 3/8 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
870000185	MULTI FIX GR6 4A	3 FAP9A 1/4 SAE - 1 FAP9A 3/8 SAE
870000187	MULTI FIX GR6 6A	6 FAP9A 1/2 NPT
870016144	MULTI FIX GR6 4A	4 FAP9A 3/8 BSP
870000273	MULTI MOBILE GR6 5A	5 FAP9A 3/8 BSP
870000275	MULTI MOBILE GR6 6A	6 FAP9A 1/2 BSP
870000279	MULTI MOBILE GR6 6A	6 FAP9A 3/8 BSP
870000280	MULTI MOBILE GR6 4A	4 FAP9A 1/2 BSP
870000285	MULTI MOBILE GR6 4A	3 FAP9A 1/4 SAE - 1 FAP9A 3/8 SAE
870000287	MULTI MOBILE GR6 6A	6 FAP9A 1/2 NPT

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 139x90
815606249	PARKING STATION MOBILE MULTICOUPLING GR 140x100
815701052	SPARE KIT LEVER GROUP GR 200x176

Custom configurations available upon request

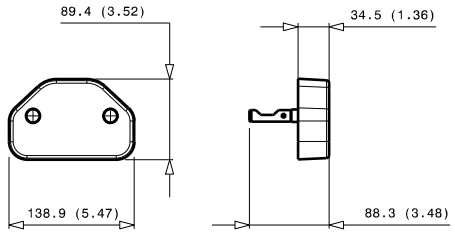
Fixed and mobile multicoupling

3,7 Kg and 1,5 Kg



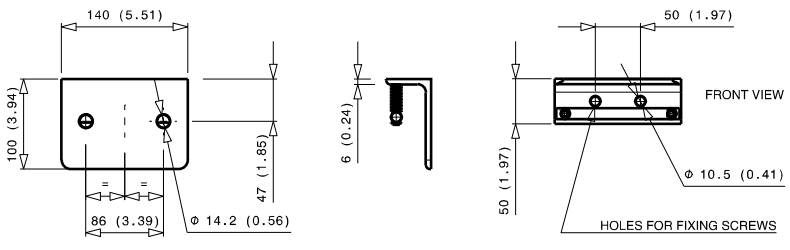
Dimensions in millimeters (inch)

Cap for fixed multicoupling *0,6 Kg*



Parking station for mobile multicoupling

1,1 Kg



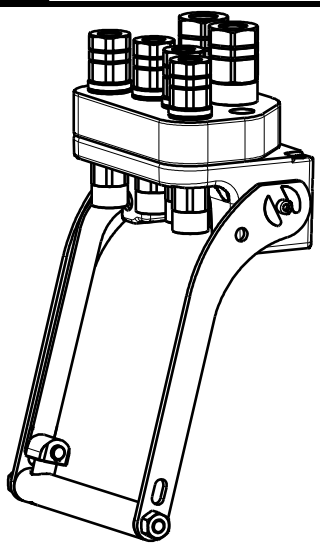
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GR6 4A-2B-2EC

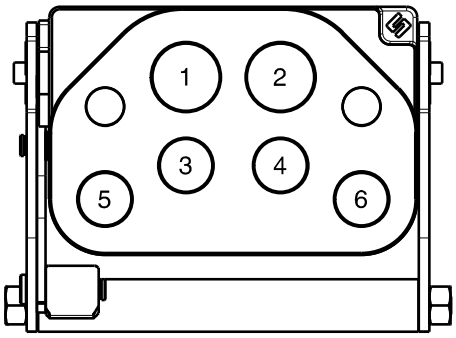
Previous description	Max. Resistance	Body size		FAP9 (A) 3/8”	FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
GRT6ZN	23000 N	4	D	2				



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

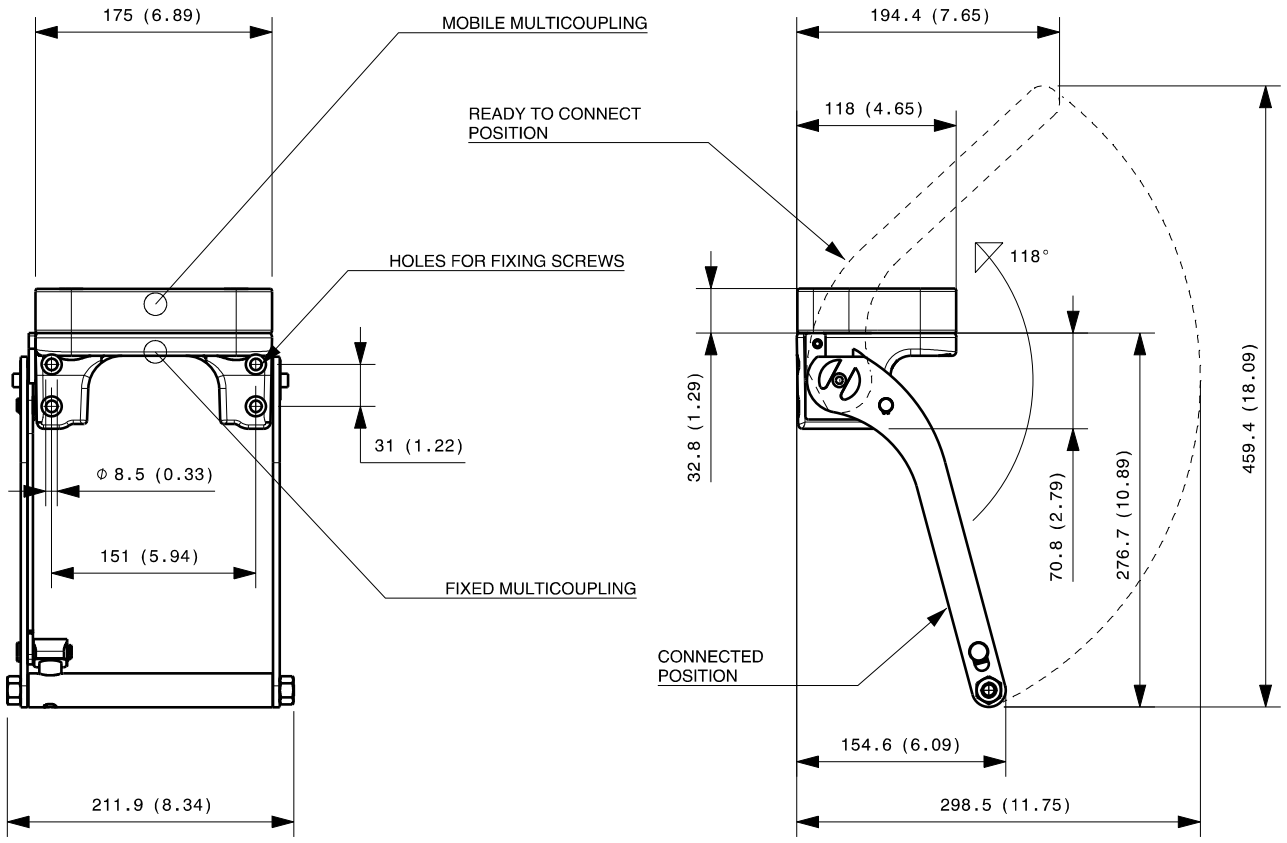
MultiCoupling (couplings included)		
Code	Name	Description
870015064	MULTI COMPLETE GR6 4A-2B	4 FAP9D 1/2 BSP - 2 FAP13 3/4 BSP - CAP
870016002	MULTI COMPLETE GR6 4A-2B	4 FAP9D 3/8 BSP - 2 FAP13 3/4 BSP - CAP
870016032	MULTI COMPLETE GR6 2A 2B	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - CAP
870016034	MULTI COMPLETE GR6 2A-2B-2EC	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 EC6 - CAP
870016013	MULTI COMPLETE GR6 4A-1B	4 FAP9DZ 1/4 BSP - 1 FAP13ZN 1/2 BSP
870016076	MULTI COMPLETE GR6 3A-2B	3 FAP9D 3/8 NPT - 2 FAP13 1/2 NPT - CAP
870016069	MULTI COMPLETE GR6 4A-2B	4 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - CAP
870016077	MULTI COMPLETE GR6 4A-2B	4 FAP9D 3/8 NPT - 2 FAP13 1/2 NPT - CAP
870016093	MULTI COMPLETE GR6 3A-2B	3 FAP9D 1/2 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
870016132	MULTI FIX GR6 2A 2B	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP
870016134	MULTI FIX GR6 2A-2B-2EC	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 EC6
870016169	MULTI FIX GR6 4A-2B	4 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP
870015290	MULTI MOBILE GR6 4A-2B	4 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP13 3/4 BSP
870016232	MULTI MOBILE GR6 2A 2B	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP
870016234	MULTI MOBILE GR6 2A-2B-2EC	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 EC6
870016269	MULTI MOBILE GR6 4A-2B	4 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP
870016293	MULTI MOBILE GR6 3A-2B	3 FAP9D 1/2 BSP - 2 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	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

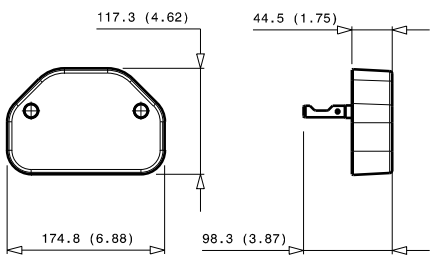
Fixed and mobile multicoupling

5,9 Kg and 2,8 Kg

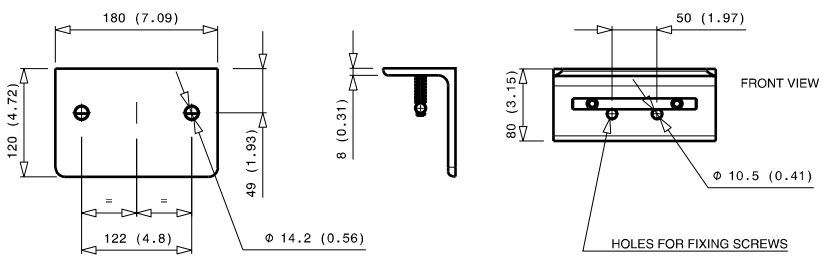


Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,1 Kg*



Parking station for mobile multicoupling *2,2 Kg*



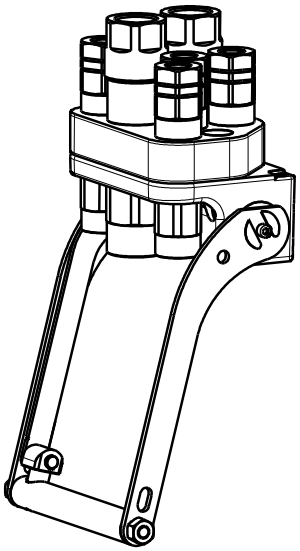
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GR6 4B-2D-4EC

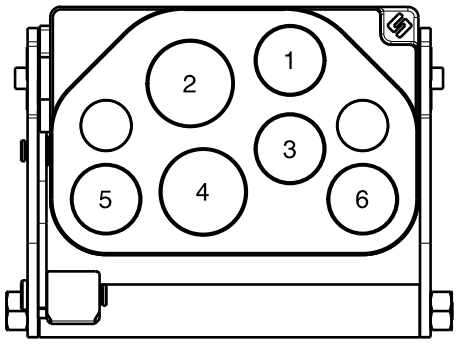
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”	1/2”	5/8”	3/4”	1”
GR6ABZN	23000 N		4		2	

DRAWING





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

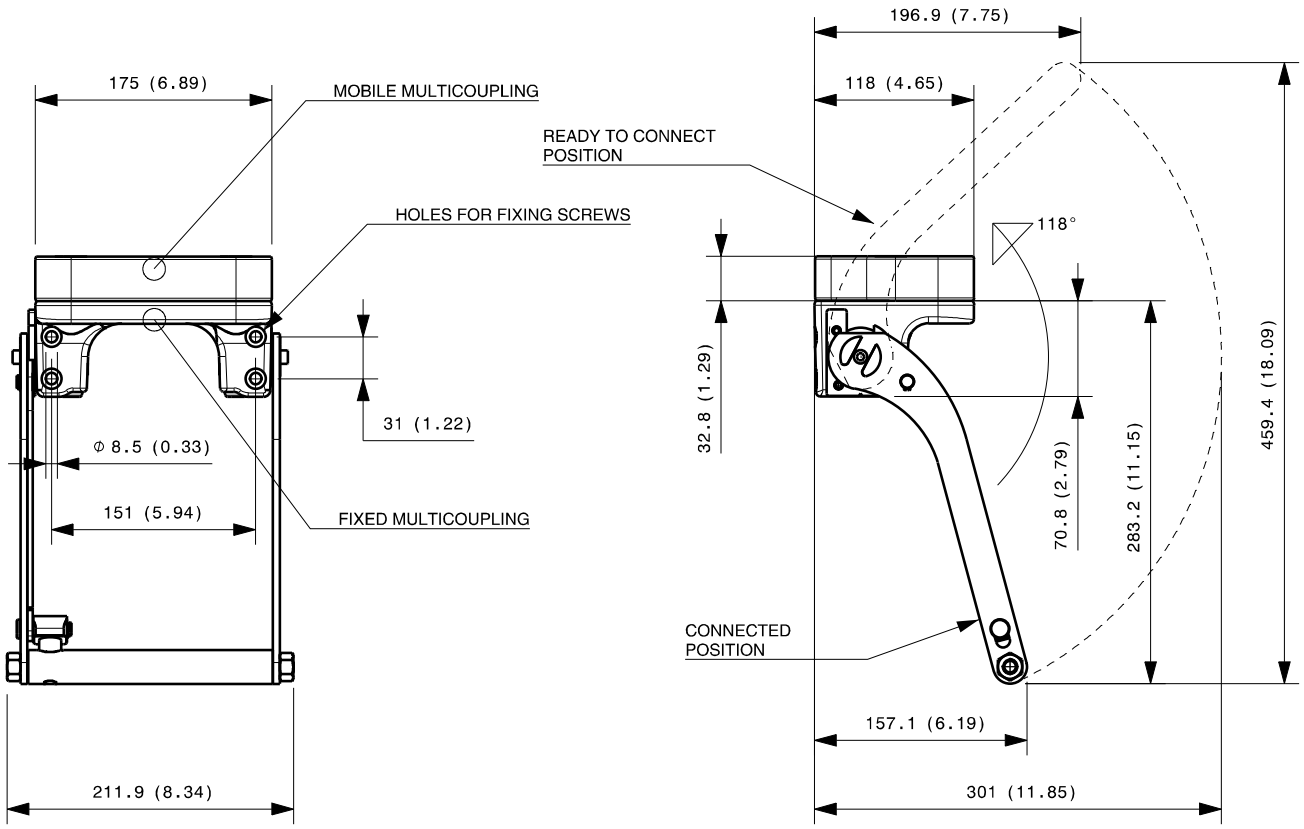
MultiCoupling (couplings included)		
Code	Name	Description
870015073	MULTI COMPLETE GR6 4B-2D	4 FAP13 1/2 BSP - 2 FAP17 3/4 BSP - CAP
870016031	MULTI COMPLETE GR6 2B 2D 2EC	2 FAP13 1/2 BSP - 2 FAP17 1 BSP - 2EC7 - CAP
870016036	MULTI COMPLETE GR6 4B-2D	2 FAP13 1/2 BSP - 2 FAP13 3/4 BSP - 1 FAP17 3/4 BSP - 1 FAP17 1 BSP - CAP
870016063	MULTI COMPLETE GR6 4B-2D	4 FAP13 1/2 NPT - 2 FAP17 3/4 NPT - CAP
870018001	MULTI COMPLETE GR6 2D-4EC	1 FAP17 3/4 BSP - 1 FAP17 1 BSP - 4EC6 - CAP
870015173	MULTI FIX GR6 4B-2D	4 FAP13 1/2 BSP - 2 FAP17 3/4 BSP
870016131	MULTI FIX GR6 2B 2D 2EC	2 FAP13 1/2 BSP - 2 FAP17 1 BSP - 2EC7
870016149	MULTI FIX GR6 4B-2D	2 FAP13 1/2 BSP - 2 FAP13 3/4 BSP - 2 FAP17 1 BSP
870015273	MULTI MOBILE GR6 4B-2D	4 FAP13 1/2 BSP - 2 FAP17 3/4 BSP
870016231	MULTI MOBILE GR6 2B 2D 2EC	2 FAP13 1/2 BSP - 2 FAP17 1 BSP - 2EC7
870016249	MULTI MOBILE GR6 4B-2D	2 FAP13 1/2 BSP - 2 FAP13 3/4 BSP - 2 FAP17 1 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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

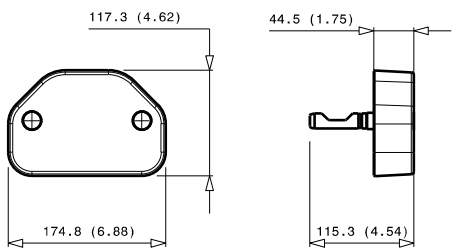
Fixed and mobile multicoupling

5,4 Kg and 2,6 Kg



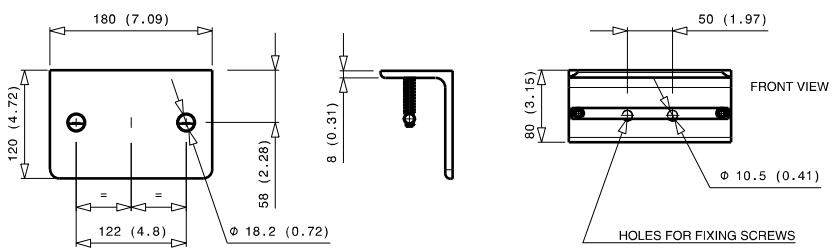
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling

2,4 Kg

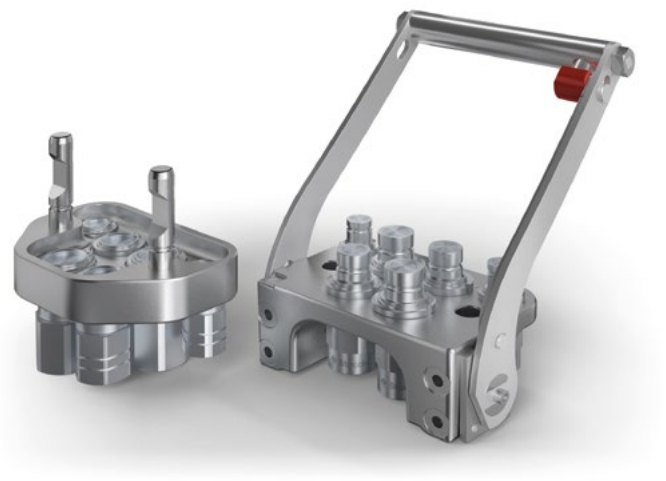


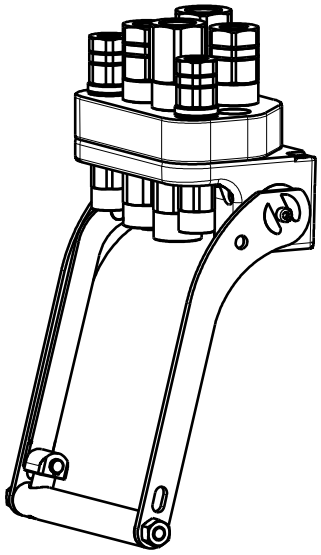
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GR6 2A-2B-2C-2EC

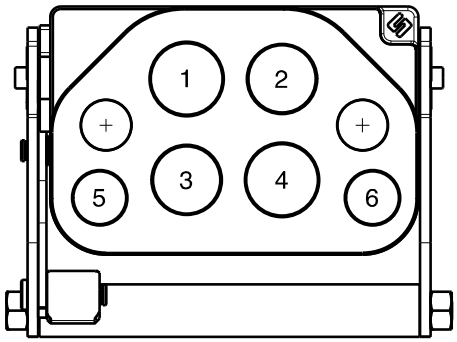
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GRM6MCZN	23000 N	2	D	2	2		

DRAWING





CONFIGURATIONS



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

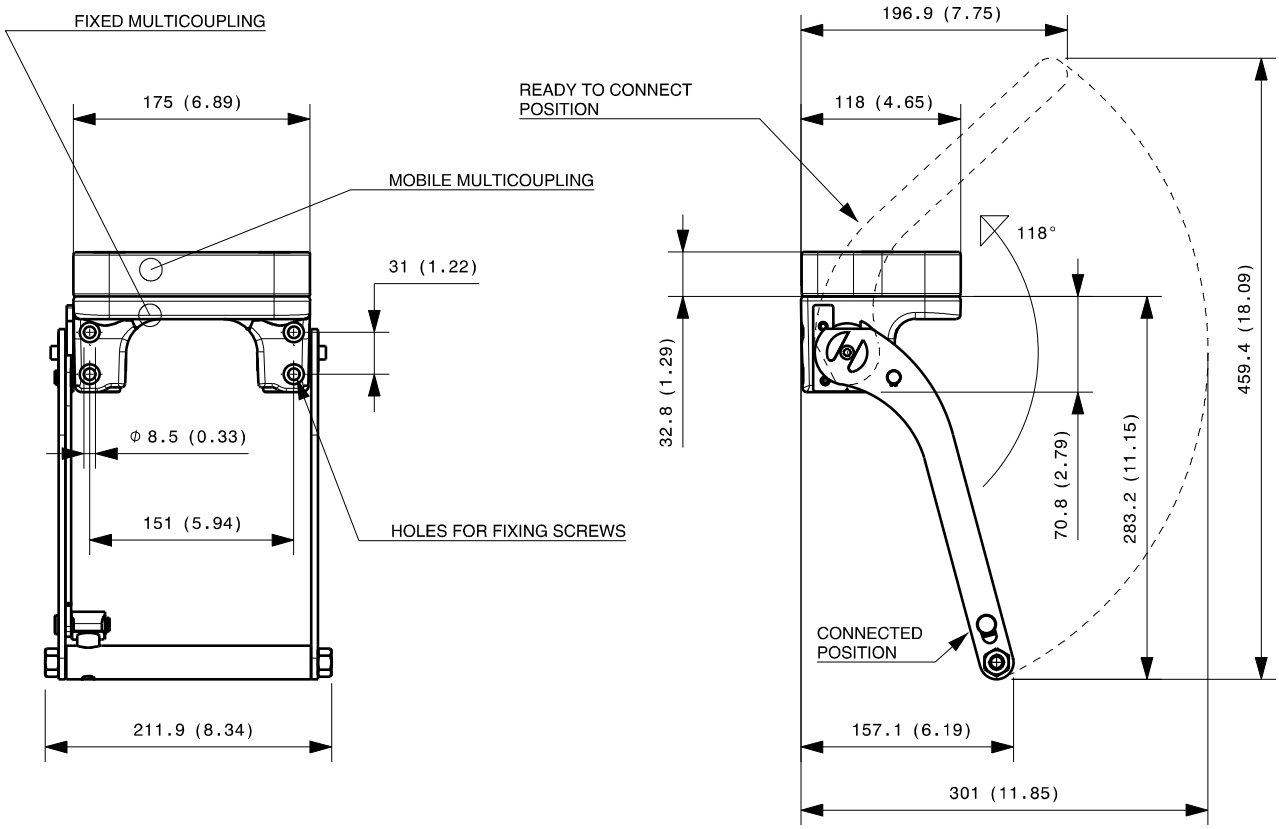
MultiCoupling (couplings included)		
Code	Name	Description
870016016	MULTI COMPLETE GR6 2A-2B-2C	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP - CAP
870016028	MULTI COMPLETE GR6 1A-2B-2C	1 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP - CAP
870016116	MULTI FIX GR6 2A-2B-2C	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP
870016128	MULTI FIX GR6 1A-2B-2C	1 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP
870016135	MULTI FIX GR6 1A-2B-2C	1 FAP9D 1/2 BSP - 2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP
870016165	MULTI FIX GR6 2A-2B-2C	1 FAP9D 3/8 BSP - 1 FAP9D 1/2 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
870016228	MULTI MOBILE GR6 1A-2B-2C	1 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP
870016235	MULTI MOBILE GR6 1A-2B-2C	1 FAP9D 1/2 BSP - 2 FAP13 1/2 BSP - 2 FAP15 3/4 BSP
870016265	MULTI MOBILE GR6 2A-2B-2C	1 FAP9D 3/8 BSP - 1 FAP9D 1/2 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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

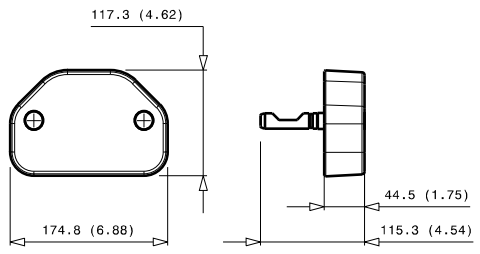
Fixed and mobile multicoupling

5,7 Kg and 2,9 Kg



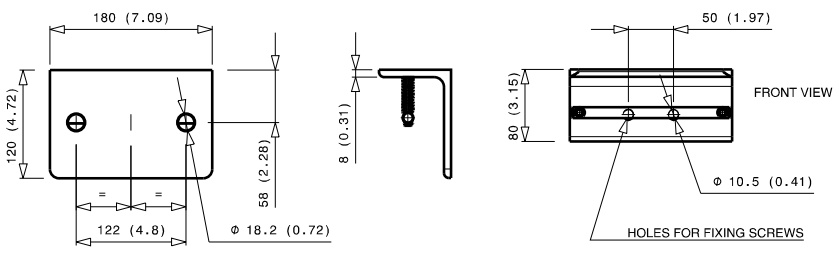
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling

2,4 Kg



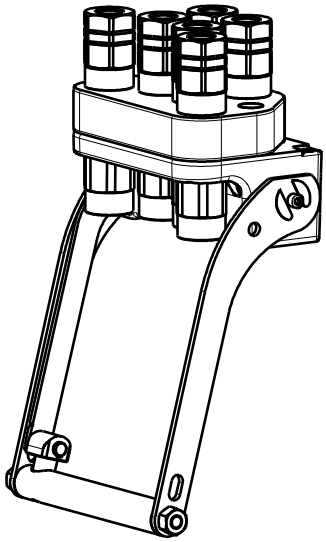
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GR6 6B-2EC

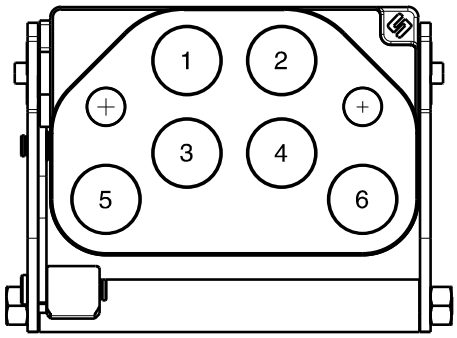
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”	1/2”	5/8”	3/4”	1”
GR6-13ZN	23000 N		6			

DRAWING





CONFIGURATIONS



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

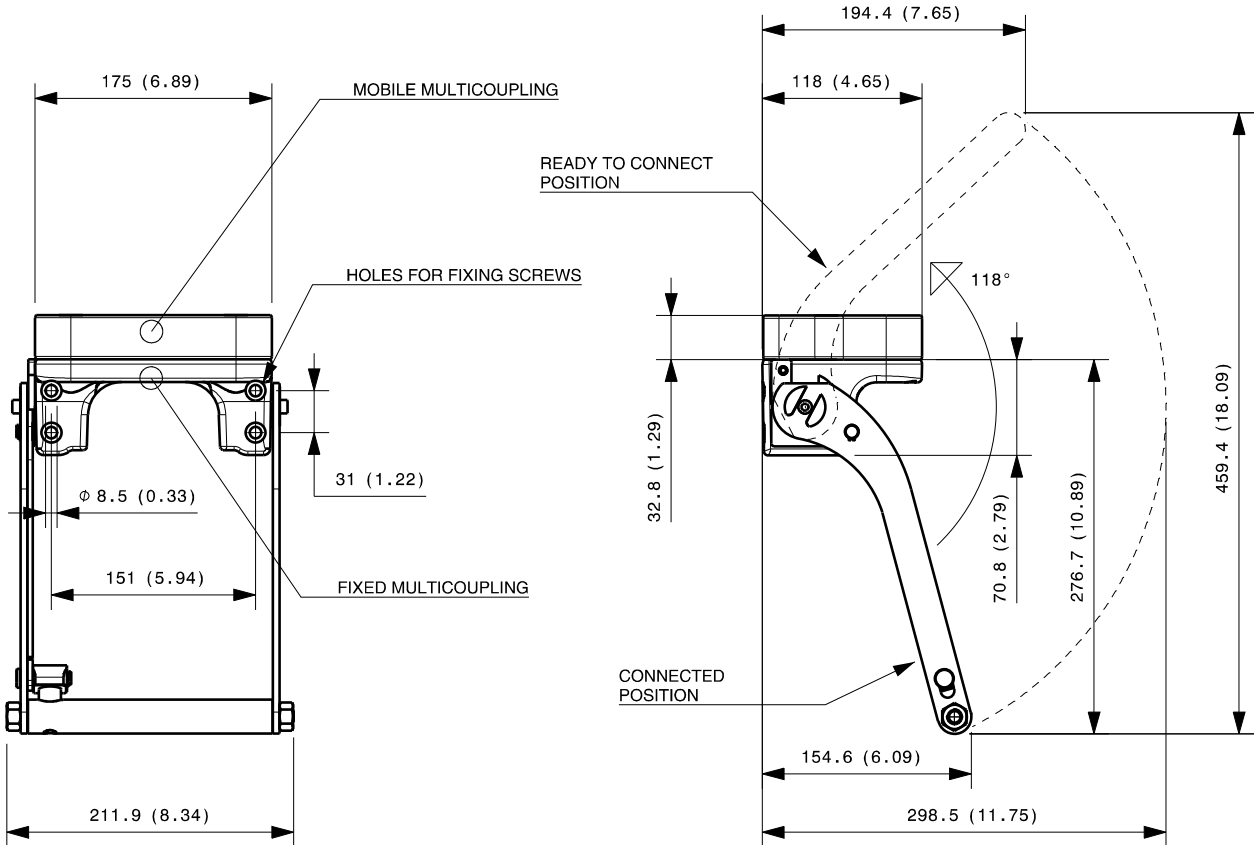
MultiCoupling (couplings included)		
Code	Name	Description
870002030	MULTI COMPLETE GR6 6B	6 FAP13 3/4 BSP - CAP
870002031	MULTI COMPLETE GR6 6B	6 FAP13 1/2 BSP - CAP
870002022	MULTI COMPLETE GR6 5B	5 FAP13 1/2 BSP - CAP
870002033	MULTI COMPLETE GR6 6B	6 FAP13 1/2 NPT - CAP
870002130	MULTI FIX GR6 6B	6 FAP13 3/4 BSP
870002131	MULTI FIX GR6 6B	6 FAP13 1/2 BSP
870002209	MULTI MOBILE GR6 2B	2 FAP13 3/4 BSP
870002222	MULTI MOBILE GR6 5B	5 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	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

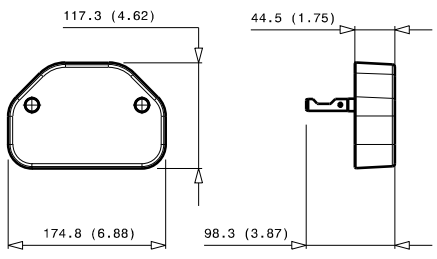
Fixed and mobile multicoupling

5,8 Kg and 2,7 Kg



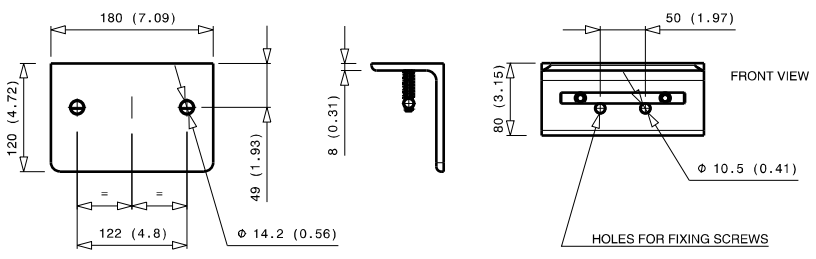
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,1 Kg*



Parking station for mobile multicoupling

2,2 Kg

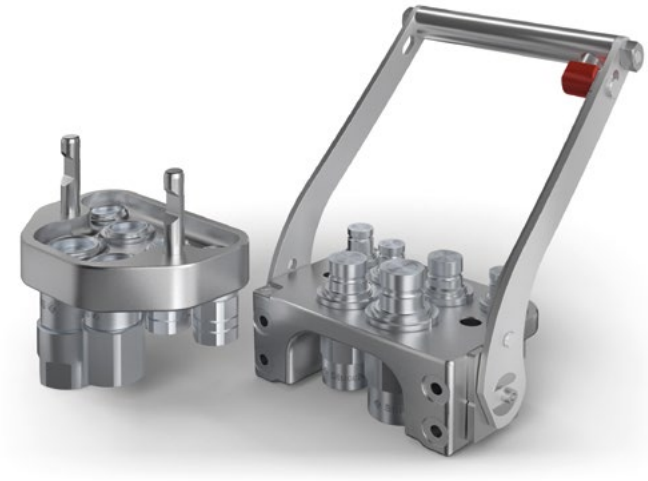


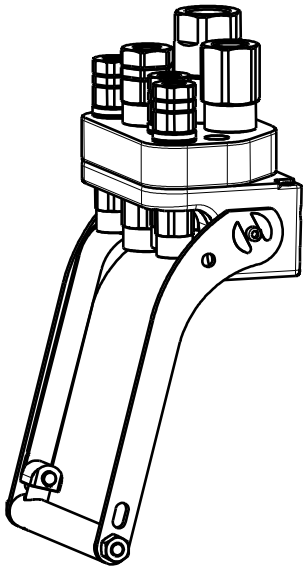
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GR6 3A-1B-1C-1D-2EC

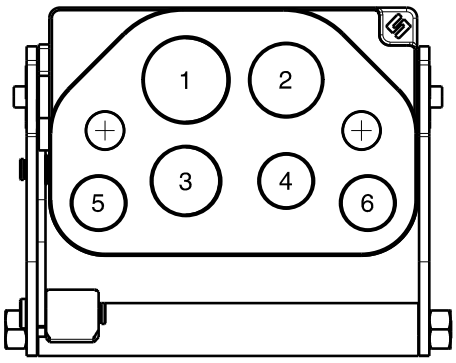
Previous description	Max. Resistance	Body size	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”	FAP30 (G) 1-1/2”
GRC6ZN	23000 N		3	D	1	1	1		

DRAWING





CONFIGURATIONS



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

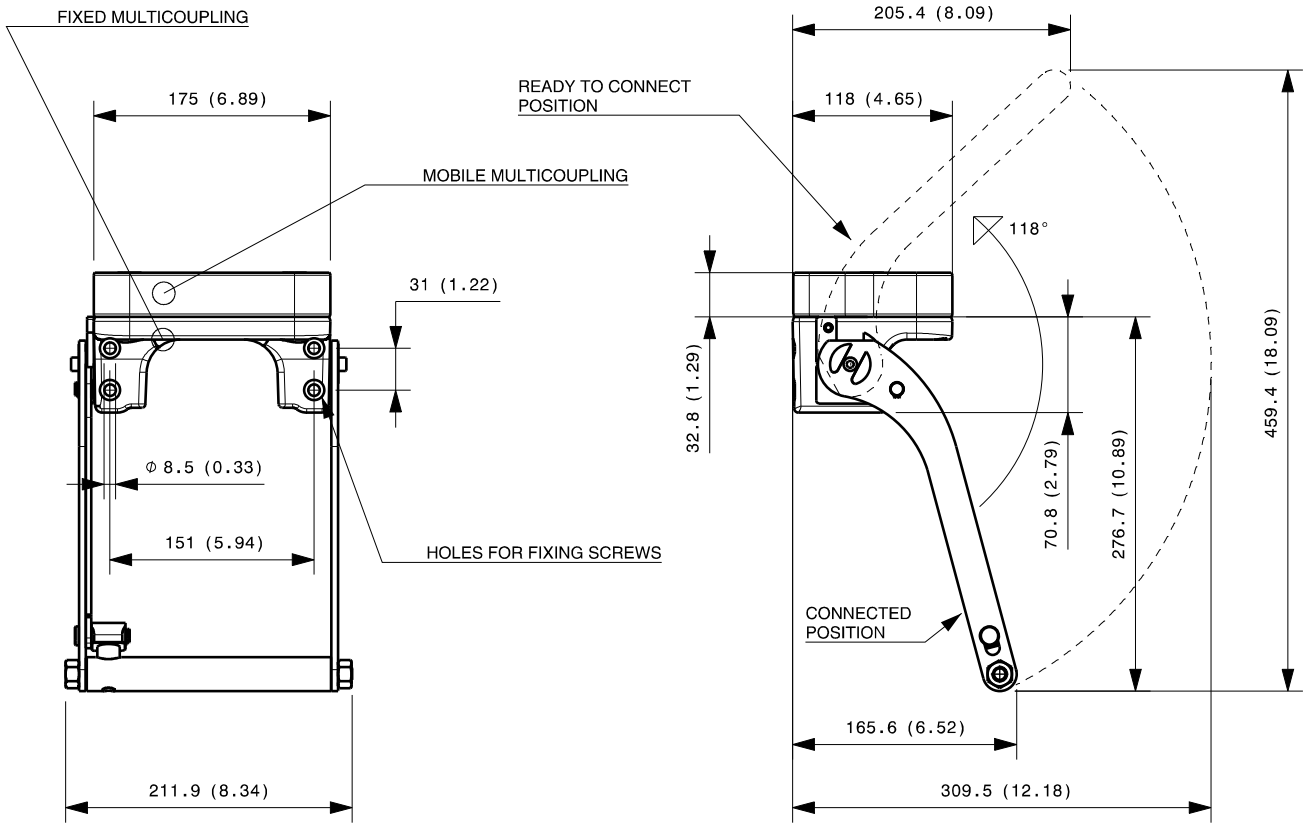
MultiCoupling (couplings included)		
Code	Name	Description
870016017	MULTI COMPLETE GR6 3A-1B-1C-1D	3 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1 BSP - CAP
870016117	MULTI FIX GR6 3A-1B-1C-1D	3 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP15 3/4 BSP - 1 FAP17 1 BSP
870016123	MULTI FIX GR6 3A-1B-1C-1D	3 FAP9D 3/8 SAE - 1 FAP13 1/2 SAE - 1 FAP15 3/4 SAE - 1 FAP17 1 SAE
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
870016223	MULTI MOBILE GR6 3A-1B-1C-1D	3 FAP9D 3/8 SAE - 1 FAP13 1/2 SAE - 1 FAP15 3/4 SAE - 1 FAP17 1 SAE

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 V01
815606259	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V01
815700999	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

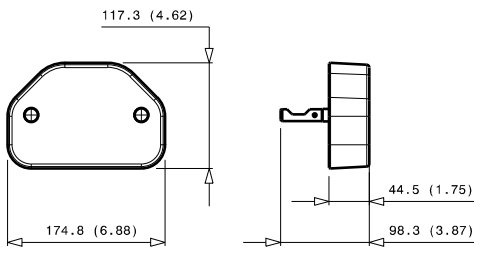
Fixed and mobile multicoupling

5,8 Kg and 2,8 Kg

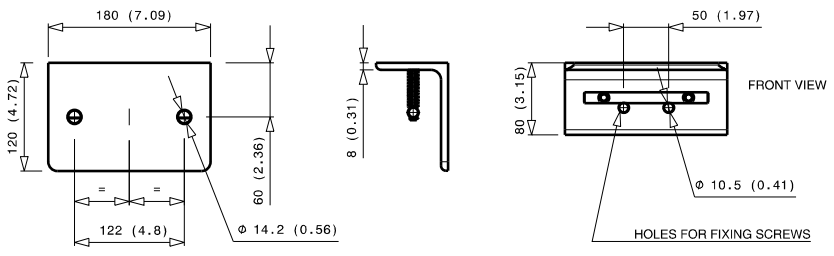


Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,1 Kg*



Parking station for mobile multicoupling *2,2 Kg*

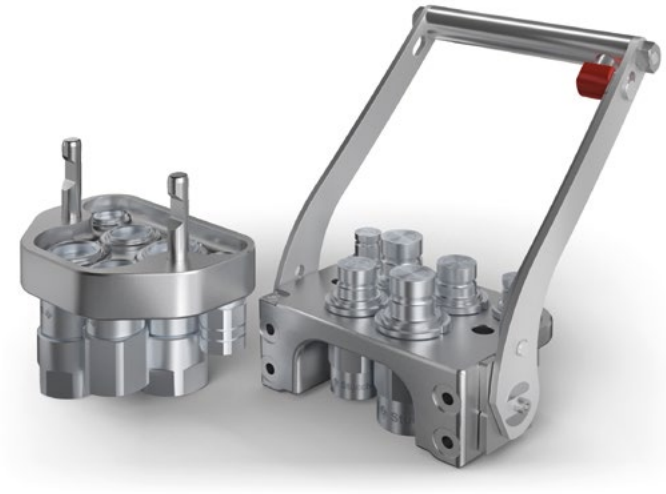


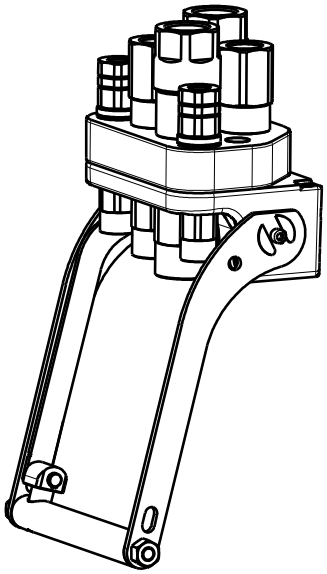
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GR6 2A-2C-2D-2EC

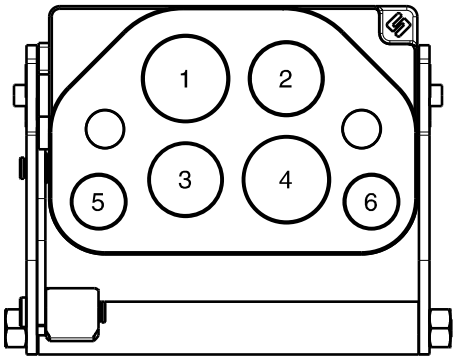
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GRM6ZN	23000 N	2	D		2	2	

DRAWING





CONFIGURATIONS



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

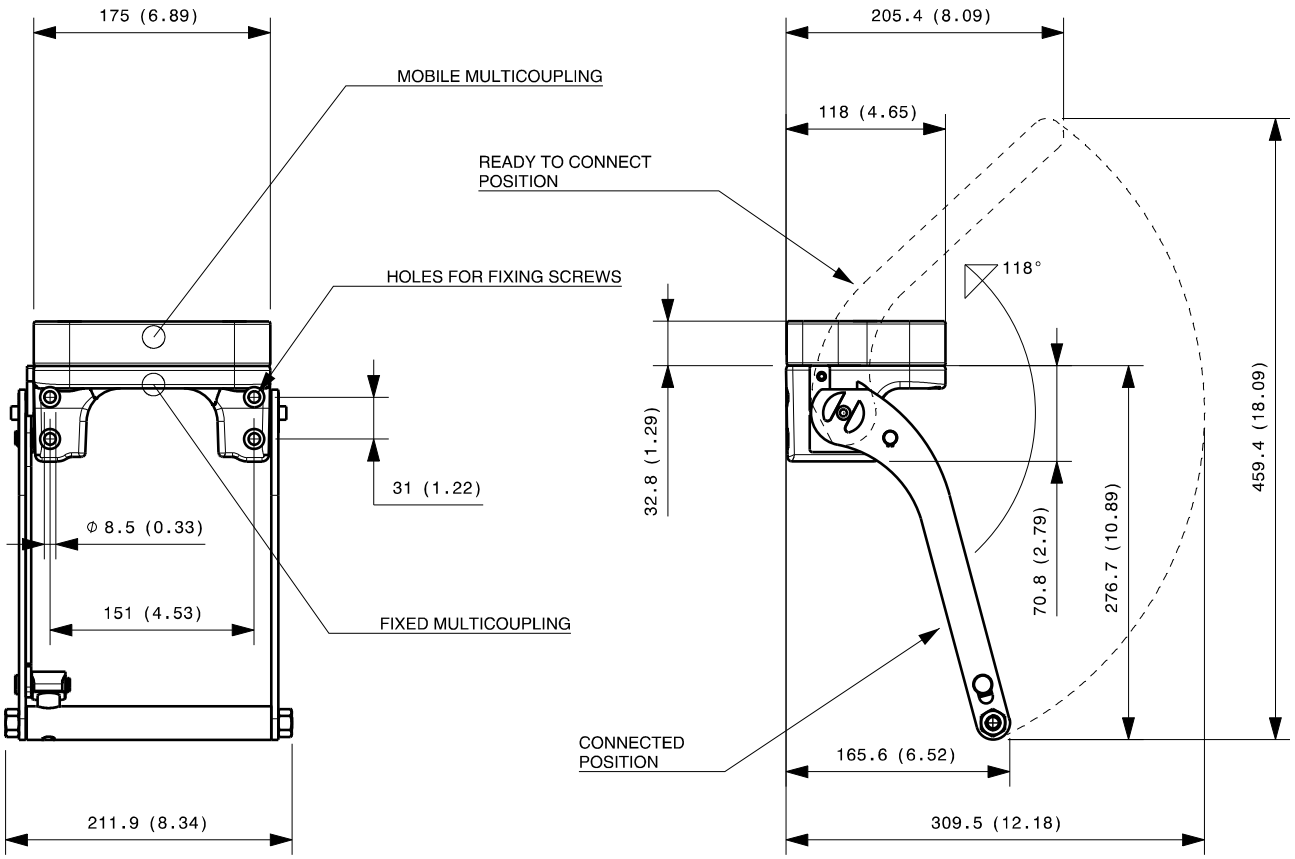
MultiCoupling (couplings included)		
Code	Name	Description
870015062	MULTI COMPLETE GR6 1A-2C-2D	1 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP - 2 FAP17 1 BSP - CAP
870015092	MULTI COMPLETE GR6 2A-2C-2D	2 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP - 2 FAP17 1 BSP - CAP
870015094	MULTI COMPLETE GR6 2A-2C-1D	2 FAP9D 3/8 BSP - 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
870016090	MULTI COMPLETE GR6 2A-2C-2D	2 FAP9D 3/8 NPT - 2 FAP15 3/4 NPT - 2 FAP17 1 NPT – CAP
870015155	MULTI FIX GR6 2D-2EC	2 FAP17 1 BSP - 2 EC6
870015192	MULTI FIX GR6 2A-2C-2D	2 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP - 2 FAP17 1 BSP
870015198	MULTI FIX GR6 2A-2D	2 FAP9D 3/8 BSP - 2 FAP17 1 BSP
870015255	MULTI MOBILE GR6 2D-2EC	2 FAP17 1 BSP - 2 EC6
870015292	MULTI MOBILE GR6 2A-2C-2D	2 FAP9D 3/8 BSP - 2 FAP15 3/4 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 V01
815606259	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V01
815700999	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

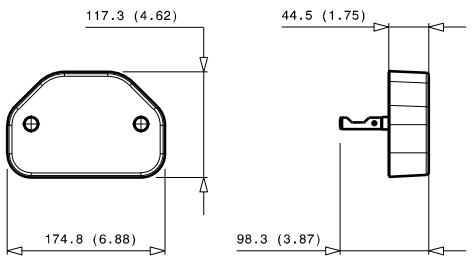
Fixed and mobile multicoupling

5,7 Kg and 2,6 Kg



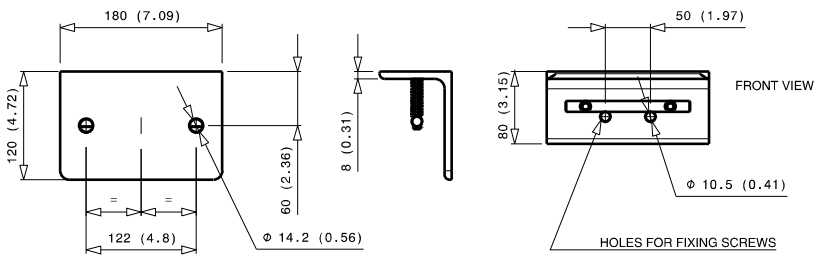
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,1 Kg*



Parking station for mobile multicoupling

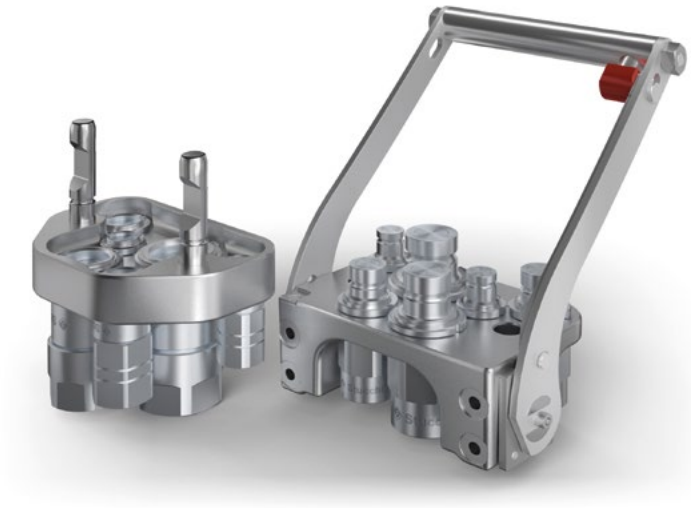
2,2 Kg

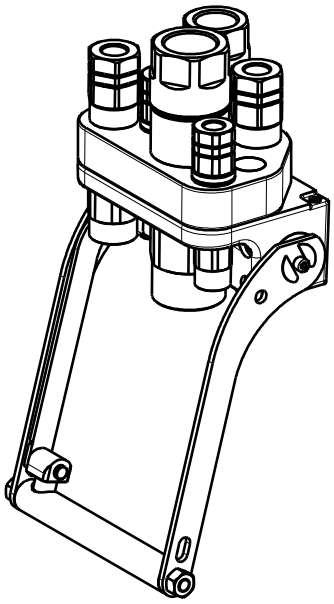


GR6 2A-2B-1D-1E-2EC

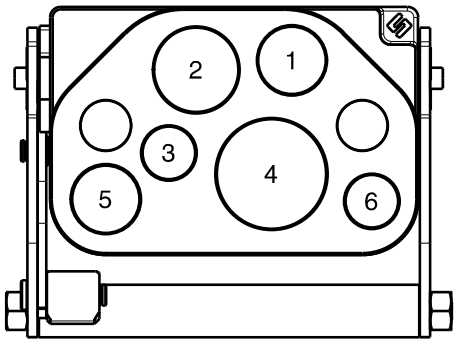
Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”		1/2”	5/8”	3/4”	1”
GRU6ZN	23000 N	2	D	2		1	1

DRAWING





CONFIGURATIONS



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

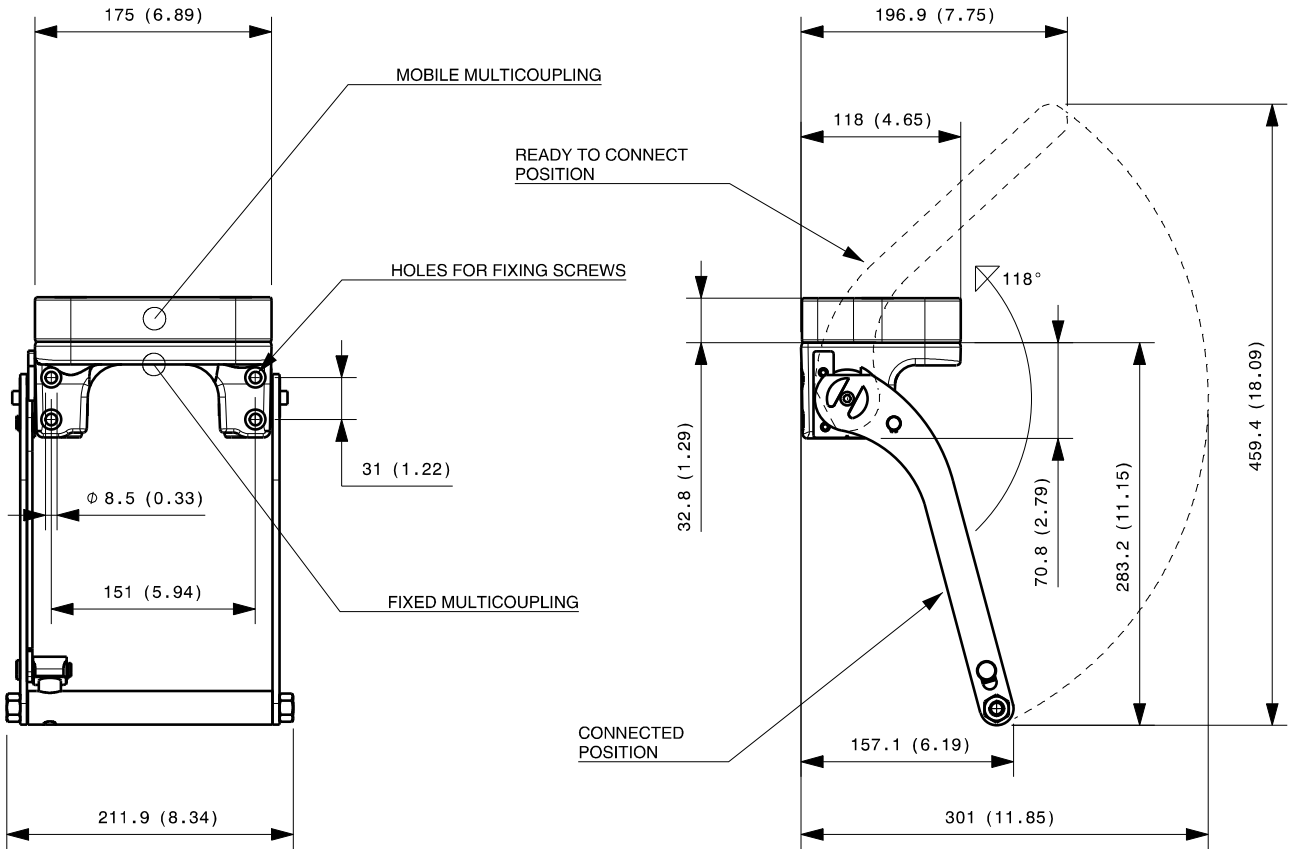
MultiCoupling (couplings included)		
Code	Name	Description
870015059	MULTI COMPLETE GR6 1A-2B-1D-1E	1 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP - CAP
870015070	MULTI COMPLETE GR6 1A-2B-1D-1E	1 FAP9D 3/8 BSP - 2 FAQ13 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP - CAP
870015093	MULTI COMPLETE GR6 1A-2B-1D	1 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 1 FAP17 3/4 BSP - CAP
870016037	MULTI COMPLETE GR6 2A-2B-1D-1E	2 FAP9D 1/2 BSP - 2 FAP13 3/4 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP - CAP
870016080	MULTI COMPLETE GR6 2A-2B-1D-1E	2 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - 1 FAP17 3/4 BSP - 1 FAP21 1-1/4 BSP - CAP
870015170	MULTI FIX GR6 1A-2B-1D-1E	1 FAP9D 3/8 BSP - 2 FAQ13 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 FAQ13 1/2 BSP - 1 FAP17 1 BSP - 1 FAP21 1-1/4 BSP
870016237	MULTI MOBILE GR6 2A-2B-1D-1E	2 FAP9D 1/2 BSP - 2 FAP13 3/4 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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

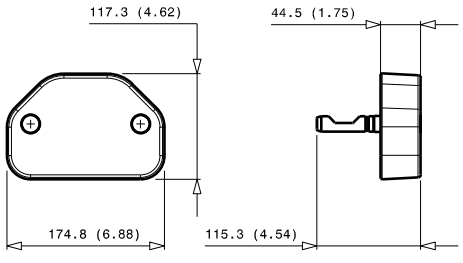
Fixed and mobile multicoupling

5,4 Kg and 2,6 Kg



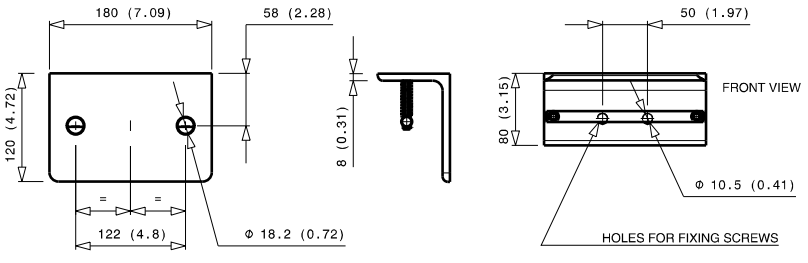
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling

2,4 Kg



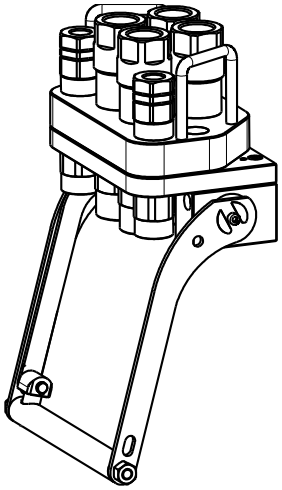
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GR6 2B-4D-2EC

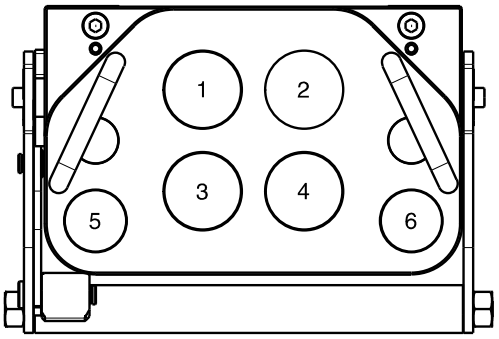
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”	1/2”	5/8”	3/4”	1”
GR6LLZN	23000 N		2		4	



DRAWING



CONFIGURATIONS



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

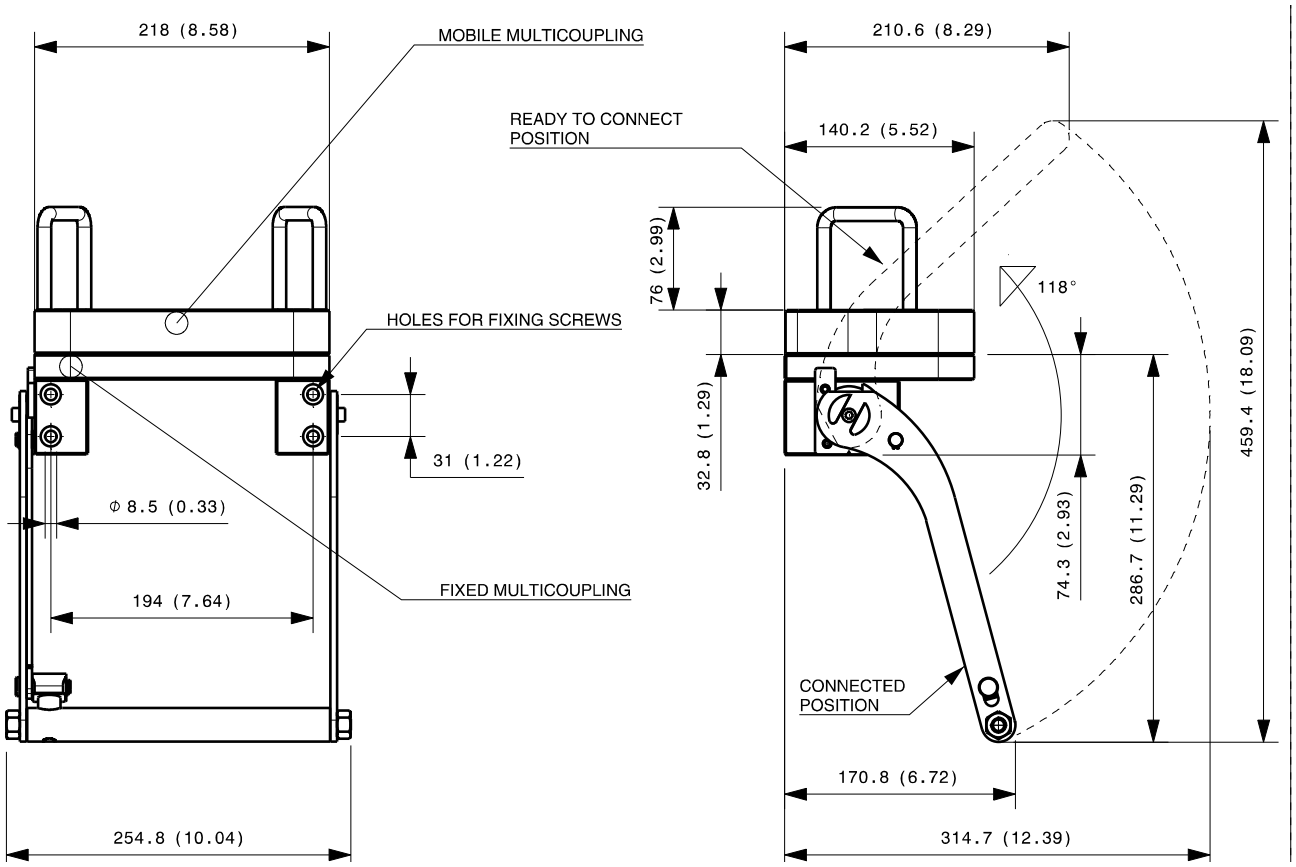
MultiCoupling (couplings included)		
Code	Name	Description
870015067	MULTI COMPLETE GR6 1B-4D	1 FAQ13 1/2 BSP - 4 FAP17 1 BSP - CAP
870016004	MULTI COMPLETE GR6 1B-4D	1 FAP13 1/2 BSP - 4 FAP17 1 BSP - CAP
870016038	MULTI COMPLETE GR6 2B-4D	2 FAP13 3/4 BSP - 4 FAP17 1 BSP - CAP
870016066	MULTI COMPLETE GR6 1B-4D	1 FAP13 1/2 NPT - 3 FAP17 3/4 NPT - 1 FAQ17 1 NPT - CAP
870016099	MULTI COMPLETE GR6 1B-4D	1 FAP13 1/2 BSP - 4 FAP17 3/4 BSP - CAP
870016105	MULTI FIX GR6 2D	2 FAP17 1 BSP
870016124	MULTI FIX GR6 2B-4D	2 FAP13 1/2 SAE - 4 FAP17 1 SAE
870016178	MULTI FIX GR6 2B-4D	2 FAP13 3/4 NPT - 4 FAP17 1 NPT
870016179	MULTI FIX GR6 2B-2D	2 FAP13 3/4 NPT - 2 FAP17 1 NPT
870016205	MULTI MOBILE GR6 2D	2 FAP17 1 BSP
870016224	MULTI MOBILE GR6 2B-4D	2 FAP13 1/2 SAE - 4 FAP17 1 SAE
870016278	MULTI MOBILE GR6 2B-4D	2 FAP13 3/4 NPT - 4 FAP17 1 NPT
870016279	MULTI MOBILE GR6 2B-2D	2 FAP13 3/4 NPT - 2 FAP17 1 NPT
870016204	MULTI MOBILE GR6 1B-4D	1 FAP13 1/2 BSP - 4 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	SPARE KIT LEVER GROUP GR 250x256

Custom configurations available upon request

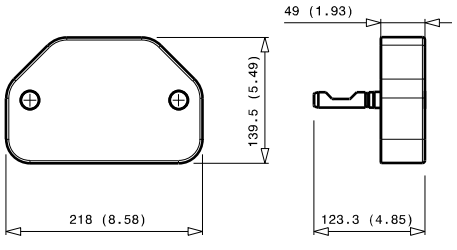
Fixed and mobile multicoupling

7,7 Kg and 5,0 Kg



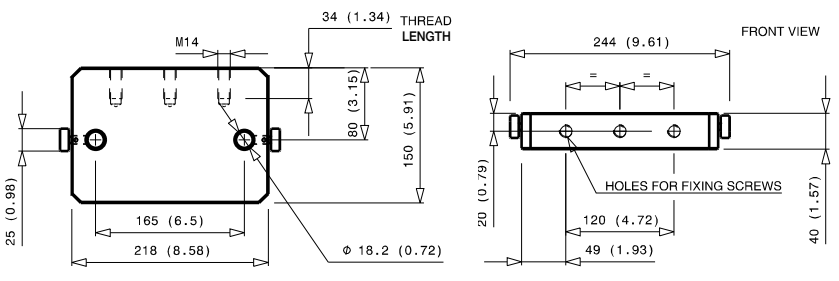
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,7 Kg*



Parking station for mobile multicoupling

3,4 Kg



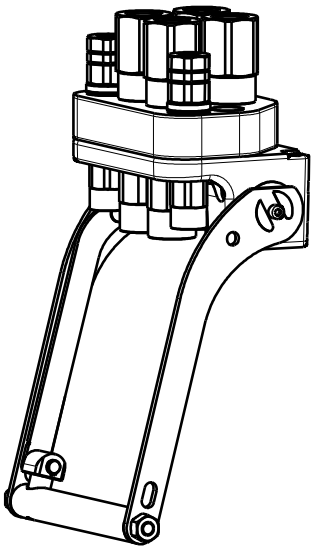
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GR6 2A-4C-2EC

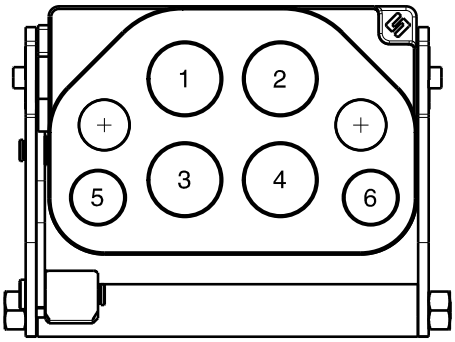
Previous description	Max. Resistance	Body size	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
GRM6ALZN	23000 N		2	D		4		

DRAWING





CONFIGURATIONS



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

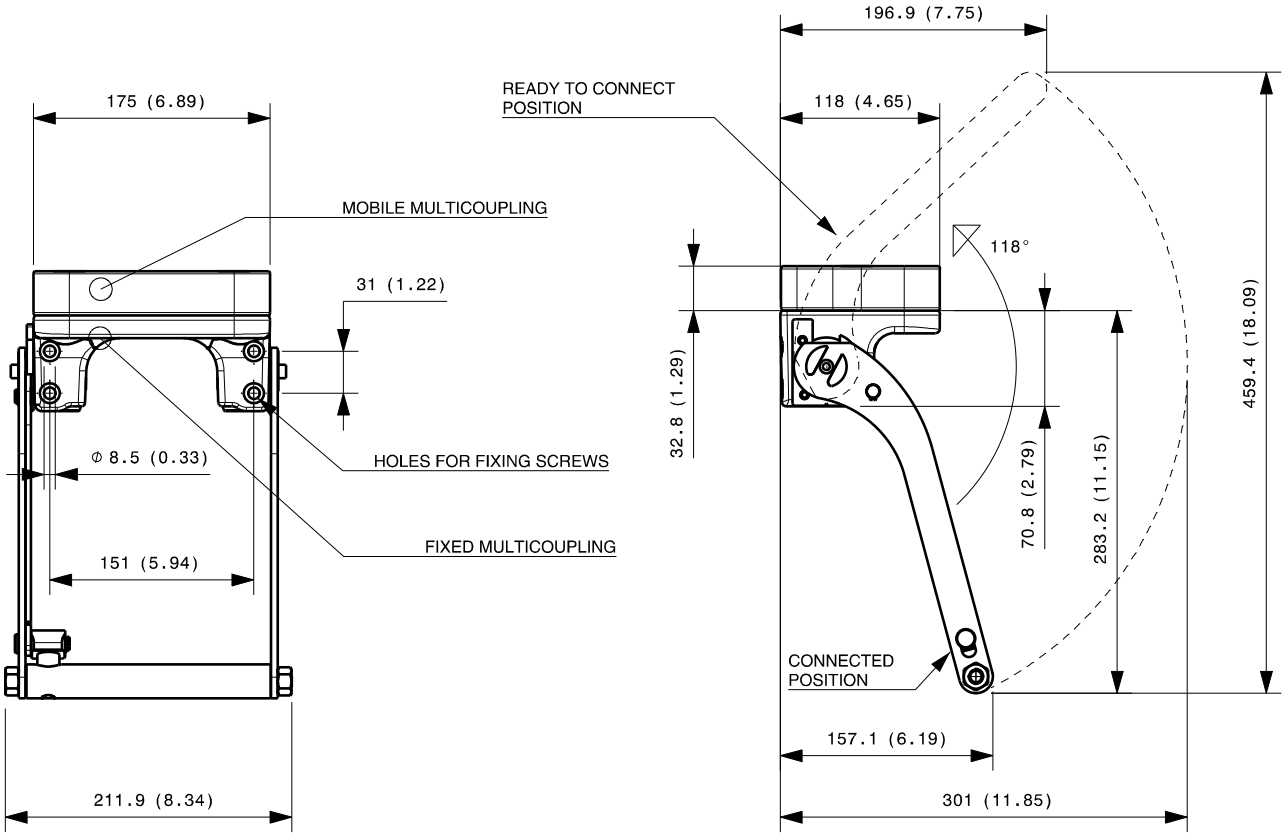
MultiCoupling (couplings included)		
Code	Name	Description
870016019	MULTI COMPLETE GR6 2A-4C	2 FAP9D 3/8 BSP - 4 FAP15 3/4 BSP - CAP
870016092	MULTI COMPLETE GR6 2A-4C	2 FAP9D 3/8 NPT - 4 FAP15 3/4 NPT - CAP
870016119	MULTI FIX GR6 2A-4C	2 FAP9D 3/8 BSP - 4 FAP15 3/4 BSP
870016196	MULTI FIX GR6 2A-4C	2 FAP9D 1/2 BSP - 4 FAP15 3/4 BSP
870016219	MULTI MOBILE GR6 2A-4C	2 FAP9D 3/8 BSP - 4 FAP15 3/4 BSP
870016292	MULTI MOBILE GR6 2A-4C	2 FAP9D 3/8 NPT - 4 FAP15 3/4 NPT
870016296	MULTI MOBILE GR6 2A-4C	2 FAP9D 1/2 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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

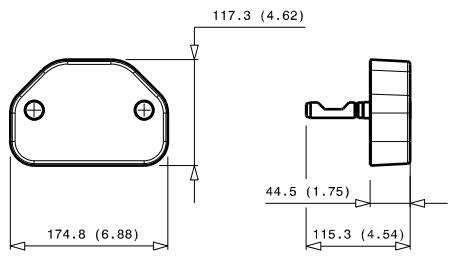
Fixed and mobile multicoupling

5,6 Kg and 2,9 Kg

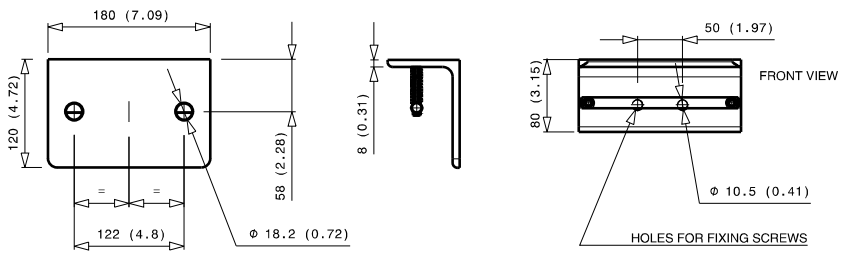


Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



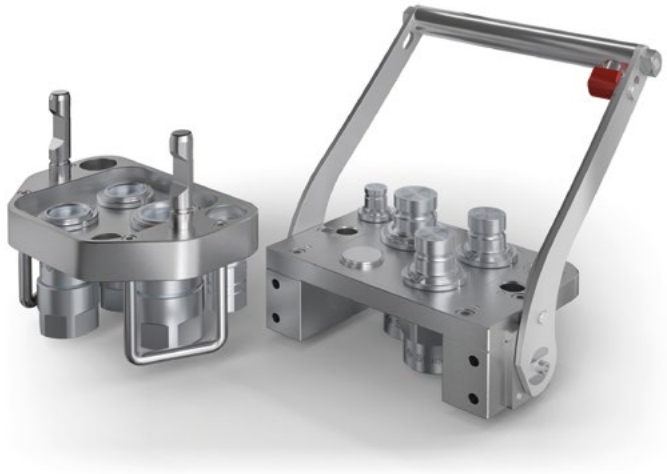
Parking station for mobile multicoupling *2,4 Kg*



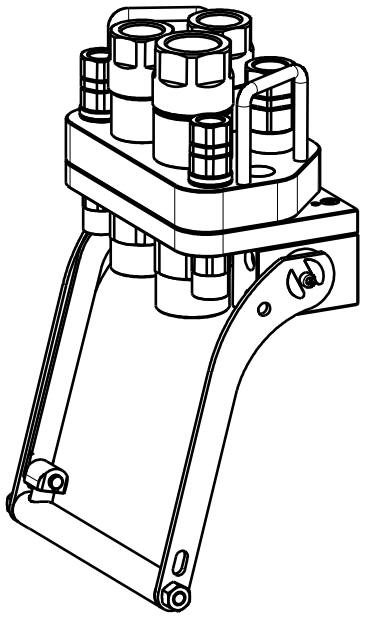
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GR6 2A-1B-2D-1E-3EC

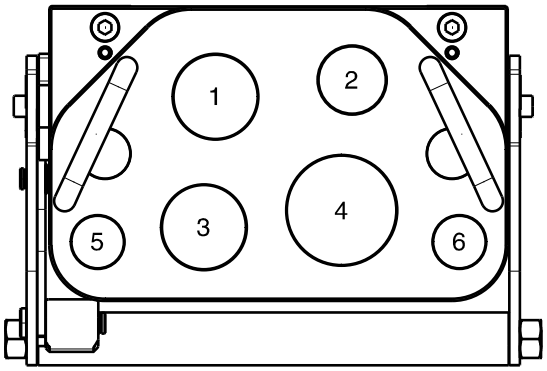
Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”		1/2”	5/8”	3/4”	1”
GR6AF	23000 N	2	D	1		2	1



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

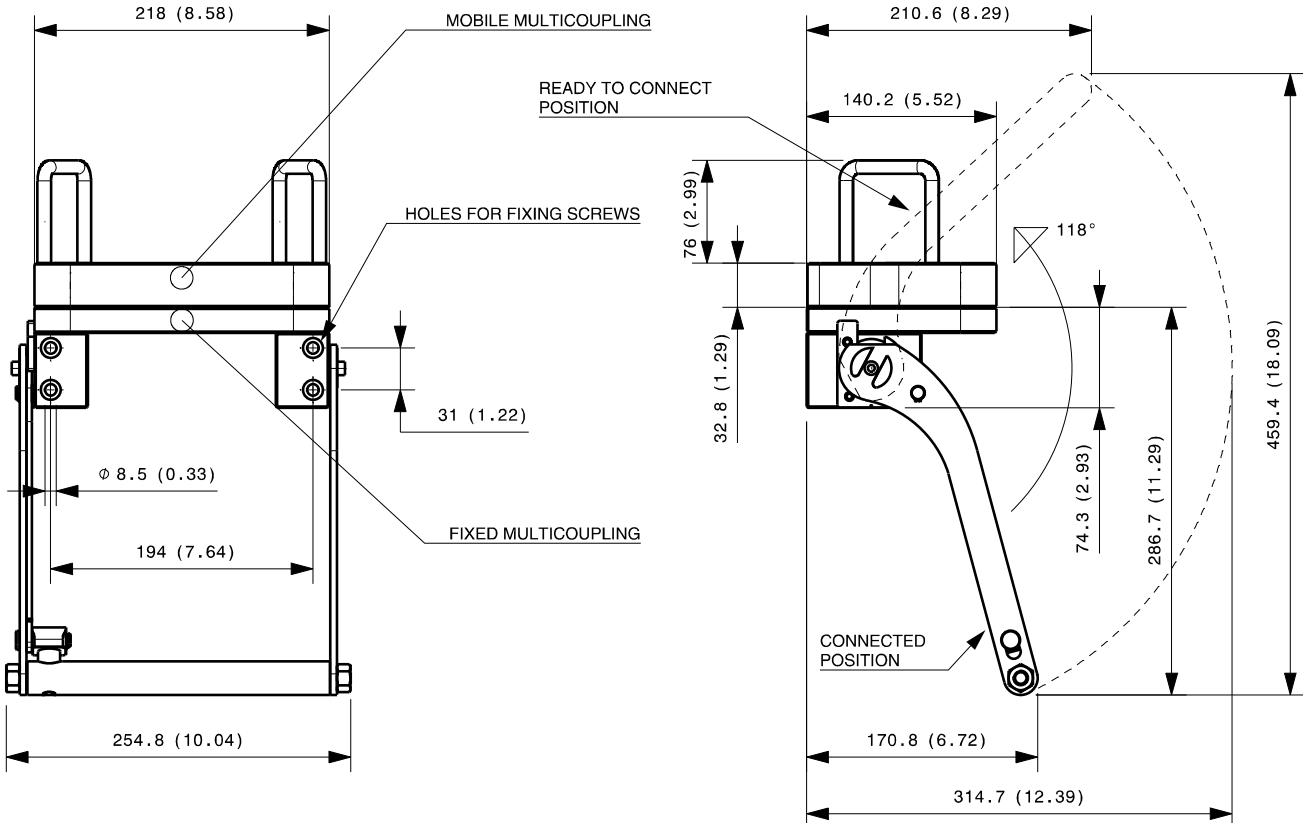
MultiCoupling (couplings included)		
Code	Name	Description
870015076	MULTI COMPLETE GR6 1A-2D-1E	1 FAP9D 1/2 BSP - 2 FAP17 1 BSP - 1 FAP21 1-1/4 BSP - CAP
870015152	MULTI FIX GR6 2A-2D-1E	2 FAP9D 1/2 BSP - 2 FAP17 3/4 BSP - 1 FAP21 1-1/4 BSP
870015176	MULTI FIX GR6 1A-2D-1E	1 FAP9D 1/2 BSP - 2 FAP17 1 BSP - 1 FAP21 1-1/4 BSP
870016156	MULTI FIX GR6 1B-2D-1E	1 FAP13 1/2 BSP - 2 FAP17 3/4 BSP - 1 FAP21 1 BSP
870015276	MULTI MOBILE GR6 1A-2D-1E	1 FAP9D 1/2 BSP - 2 FAP17 1 BSP - 1 FAP21 1-1/4 BSP
870015252	MULTI MOBILE GR6 2A-2D-1E	2 FAP9D 1/2 BSP - 2 FAP17 3/4 BSP - 1 FAP21 1-1/4 BSP
870016255	MULTI MOBILE GR6 1D-1E	1 FAP17 3/4 BSP - 1 FAP21 1 BSP
870016256	MULTI MOBILE GR6 1B-2D-1E	1 FAP13 1/2 BSP - 2 FAP17 3/4 BSP - 1 FAP21 1 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	SPARE KIT LEVER GROUP GR 250x256

Custom configurations available upon request

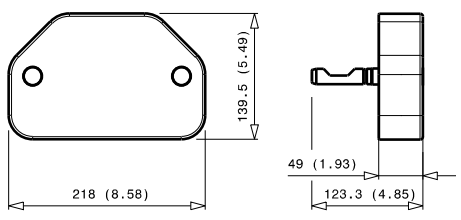
Fixed and mobile multicoupling

7,5 Kg and 4,3 Kg

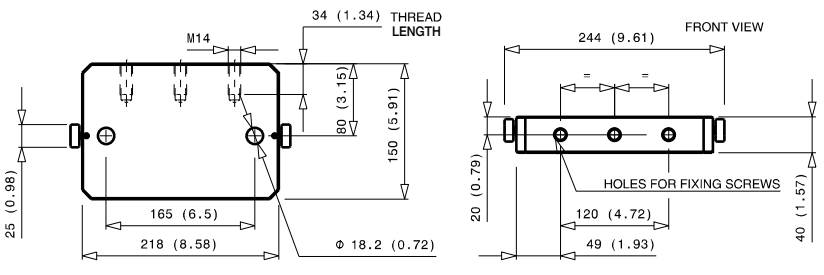


Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,7 Kg*



Parking station for mobile multicoupling *3,4 Kg*



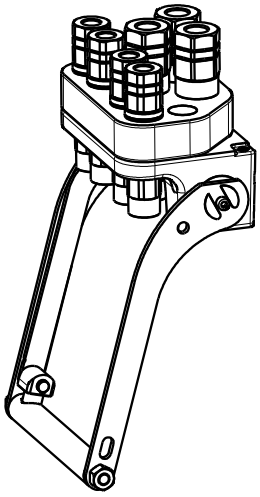
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GR7 4A-3B-4EC

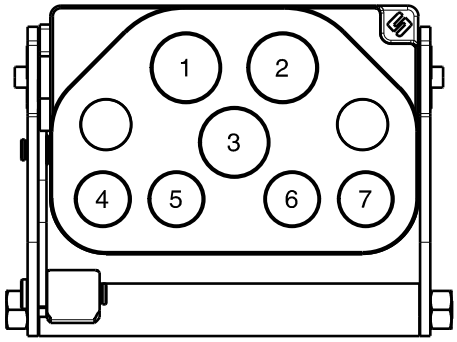
Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”		1/2”	5/8”	3/4”	1”
GR7ABZN	23000 N	4	D	3			

DRAWING





CONFIGURATIONS



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
870016067	MULTI COMPLETE GR7 3A-3B-1EC	3 FAP9D 1/2 NPT - 3 FAP13 1/2 NPT - 1 EC7 - CAP
870016148	MULTI FIX GR7 2A-3B-2EC	2 FAP9D 1/2 BSP - 3 FAP13 1/2 BSP - 2EC6
870015153	MULTI FIX GR7 1A-2B-3EC	1 FAP9D 3/8 BSP - 2 FAP13 3/4 BSP - 3EC6
870015154	MULTI FIX GR7 3B-3EC	3 FAP13 1/2 BSP - 3EC6
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
870016248	MULTI MOBILE GR7 2A-3B-2EC	2 FAP9D 1/2 BSP - 3 FAP13 1/2 BSP - 2EC6
870015253	MULTI MOBILE GR7 1A-2B-3EC	1 FAP9D 3/8 BSP - 2 FAP13 3/4 BSP - 3EC6
870015254	MULTI MOBILE GR7 3B-3EC	3 FAP13 1/2 BSP - 3EC6
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 length

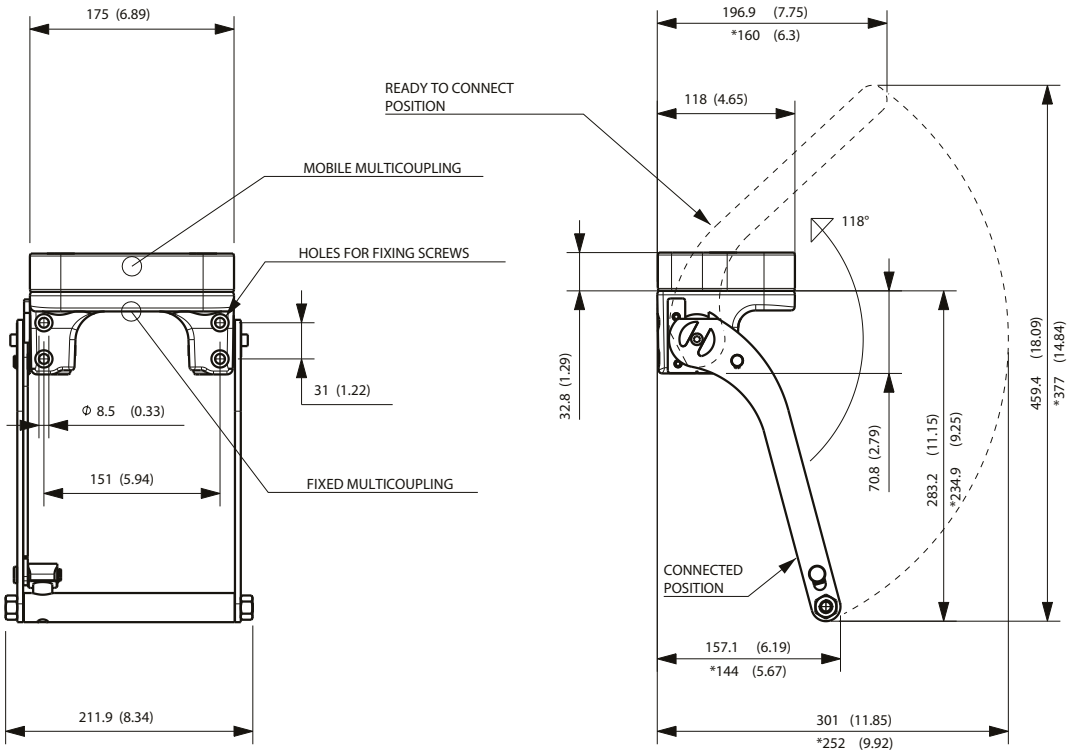
MultiCoupling spare parts (couplings not included)	
Code	Name
806000328	MULTI FIX EMPTY GR7 4A-3B-4EC
806000380	MULTI FIX EMPTY GR7 4A-3B-4EC V01*
806000329	MULTI MOBILE EMPTY GR7 4A-3B-4EC
815606260	CAP FIX MULTICOUPLING GR 175x117 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212
UPON REQUEST	SPECIFIC KIT FOR V01 MODEL

* **V01** = lever length

Custom configurations available upon request

Fixed and mobile multicoupling

5,7 Kg and 2,9 Kg

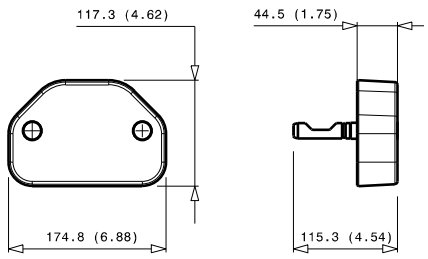


Available also model with shorter level, in case of need ask the drawing to info@stucchigroup.com.

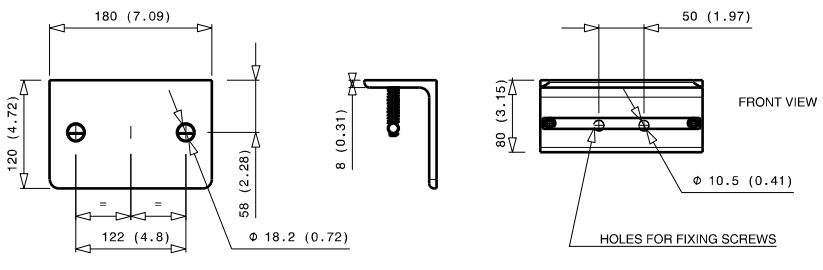
Dimensions in millimeters (inch)

**dimensions of the V01 version*

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling *2,4 Kg*



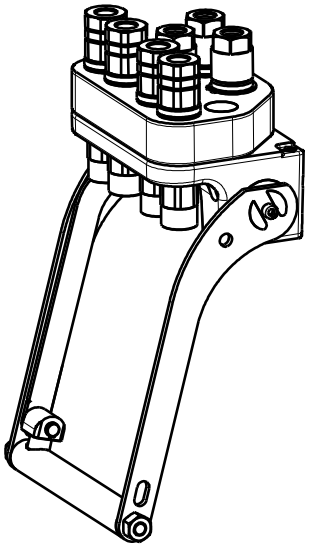
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GRHP7 7A-4EC

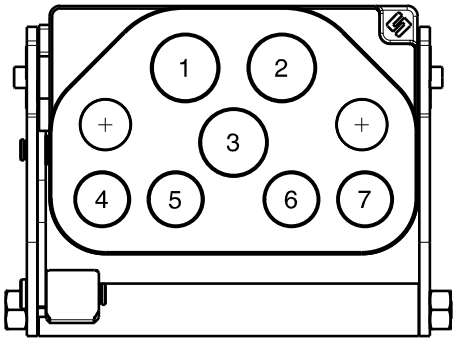
Previous description	Max. Resistance	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size							
GR7ACZN	30000 N	4	D				
		3	HP				

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

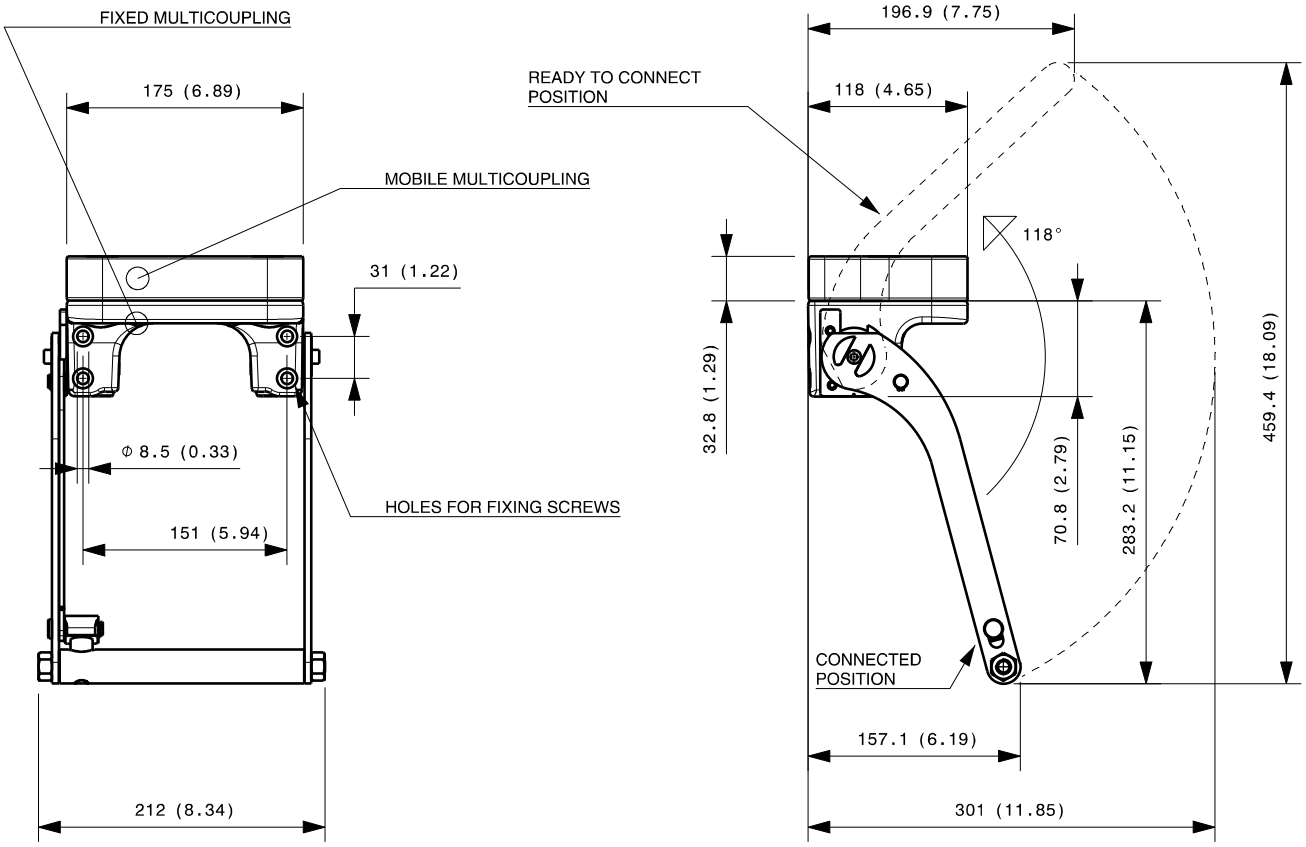
MultiCoupling (couplings included)		
Code	Name	Description
870016020	MULTI COMPLETE GRHP7 7A	4 FAP9D 3/8 BSP - 3 FAP9HP 3/8 NPT - CAP
870016120	MULTI FIX GRHP7 7A	4 FAP9D 3/8 BSP - 3 FAP9HP 3/8 NPT
870016220	MULTI MOBILE GRHP7 7A	4 FAP9D 3/8 BSP - 3 FAP9HP 3/8 NPT

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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

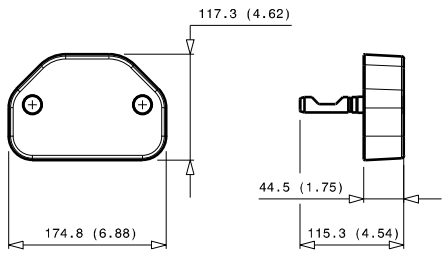
Fixed and mobile multicoupling

5,6 Kg and 2,9 Kg

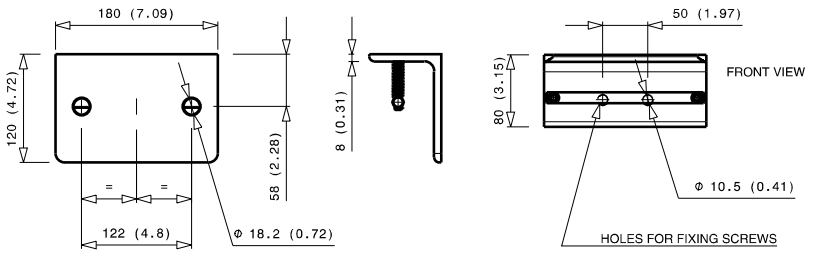


Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling *2,3 Kg*



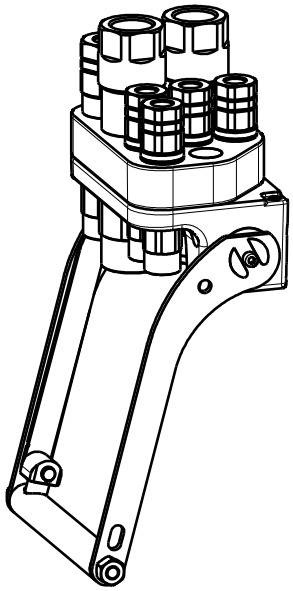
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GR7 4A-1B-2D-4EC

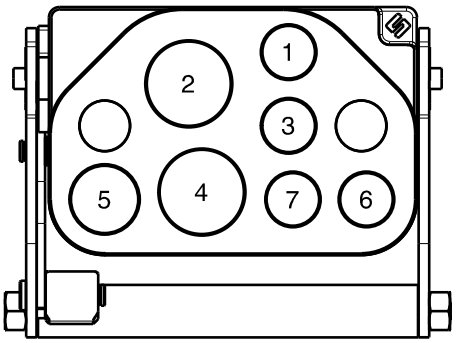
Previous description	Max. Resistance	Body size	FAP9 (A) 3/8”		FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
GR7AAZN	23000 N		4	D	1		2	

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

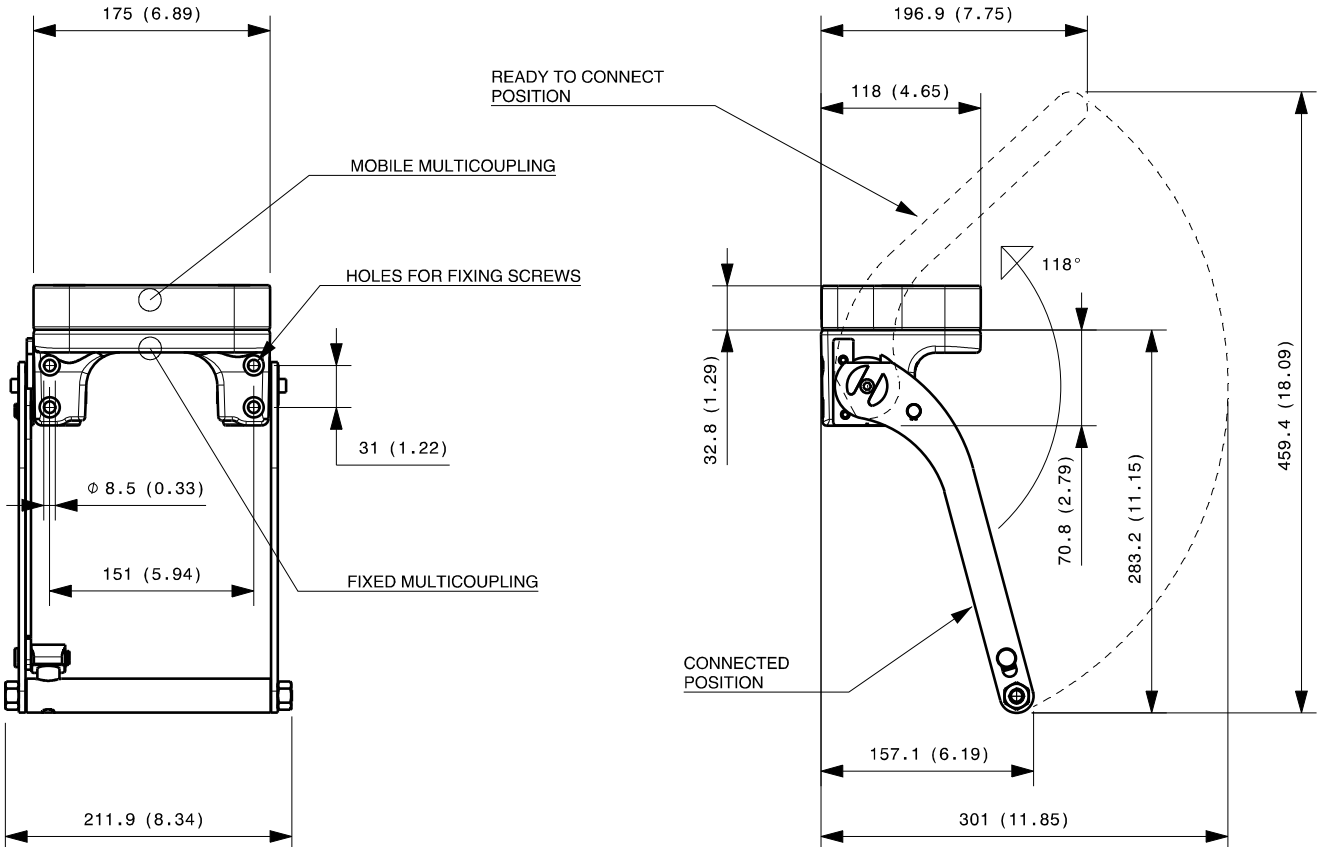
MultiCoupling (couplings included)		
Code	Name	Description
870016006	MULTI COMPLETE GR7 3A-1B-2D-1EC	1 FAP9D 1/4 BSP - 2 FAP9D 3/8 BSP -1 FAP13 1/2 BSP - 2 FAP17 1 BSP - 1EC7 - CAP
870016075	MULTI COMPLETE GR7 4A-2D	4 FAP9D 3/8 NPT - 2 FAP17 3/4 NPT - CAP
870016098	MULTI COMPLETE GR7 4A-1B-2D	4 FAP9DZN 3/8 BSP - 1 FAP13ZN 1/2 BSP - 2 FAP17ZN 3/4 BSP - 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
870016139	MULTI FIX GR7 1B-2D-4EC	1 FAP13 1/2 BSP - 2 FAP17 1 BSP - 4 EC6
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
870016239	MULTI MOBILE GR7 1B-2D-4EC	1 FAP13 1/2 BSP - 2 FAP17 1 BSP - 4 EC6

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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

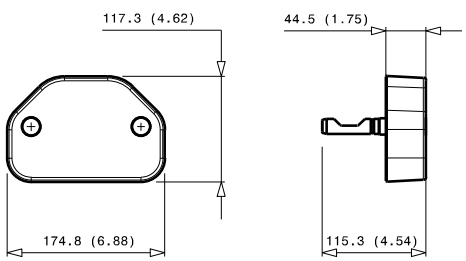
Fixed and mobile multicoupling

5,4 Kg and 2,6 Kg

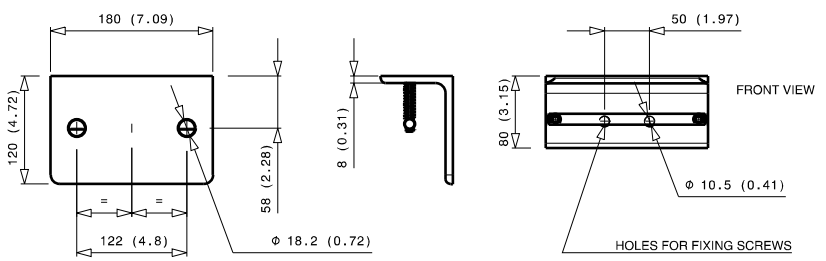


Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,2 Kg*



Parking station for mobile multicoupling *2,4 Kg*

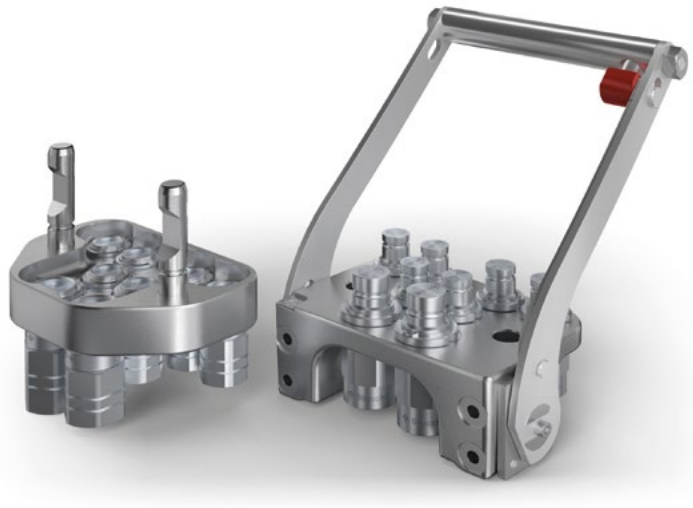


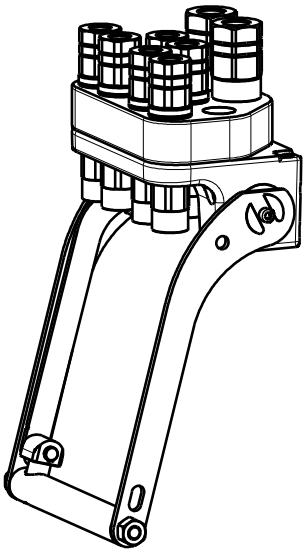
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GR8 6A-2B-6EC

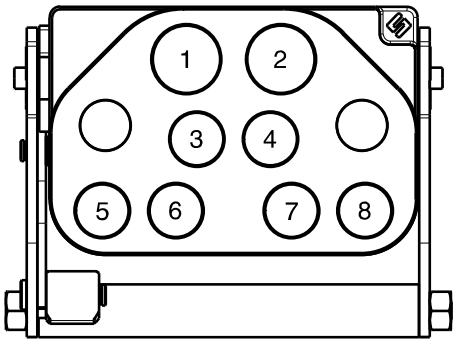
Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”		1/2”	5/8”	3/4”	1”
GR8ABZN	30000 N	6	D	2			

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

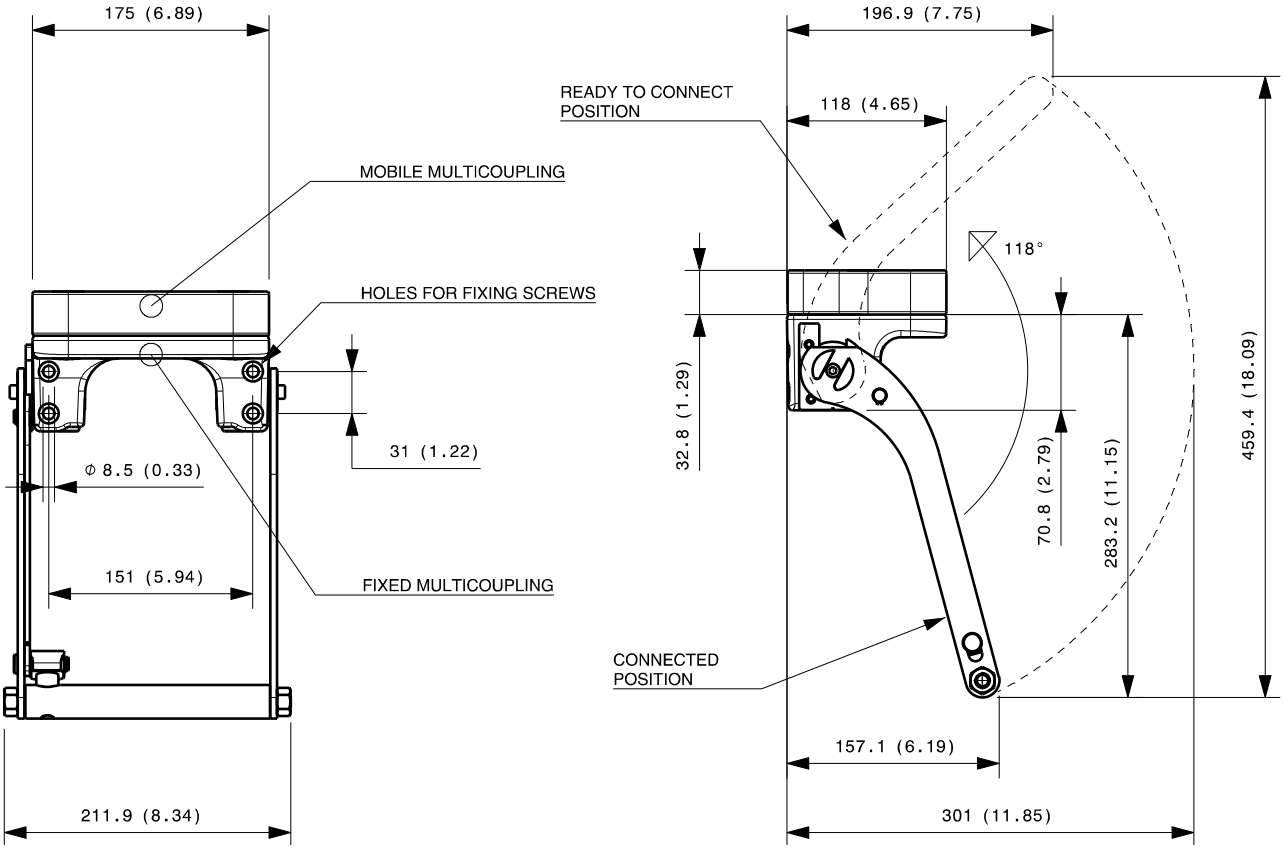
MultiCoupling (couplings included)		
Code	Name	Description
870015087	MULTI COMPLETE GR8 6A-2B	6 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP13 3/4 BSP - CAP
870016059	MULTI COMPLETE GR8 6A-2B	6 FAP9D 3/8 BSP - 2 FAP13 1/2 BSP - CAP
870016062	MULTI COMPLETE GR8 4A-2B	2 FAP9D 3/8 NPT - 2 FAP9D 1/2 NPT - 2 FAP13 3/4 NPT - CAP
870015187	MULTI FIX GR8 6A-2B	6 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP13 3/4 BSP
870016150	MULTI FIX GR8 6A-2B	6 FAP9D 1/2 BSP - 2 FAP13 1/2 BSP
870016168	MULTI FIX GR8 5A-1B	5 FAP9D 3/8 BSP - 1 FAP13 3/4 BSP
870015187	MULTI FIX GR8 6A-2B	6 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP13 3/4 BSP
870015287	MULTI MOBILE GR8 6A-2B	6 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1 FAP13 3/4 BSP
870016250	MULTI MOBILE GR8 6A-2B	6 FAP9D 1/2 BSP - 2 FAP13 1/2 BSP
870016268	MULTI MOBILE GR8 5A-1B	5 FAP9D 3/8 BSP - 1 FAP13 3/4 BSP

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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

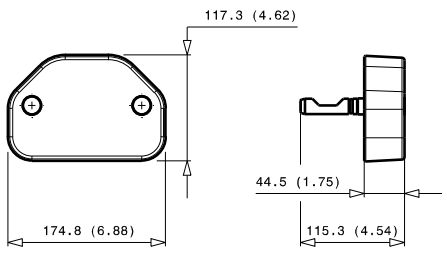
Fixed and mobile multicoupling

5,7 Kg and 2,8 Kg



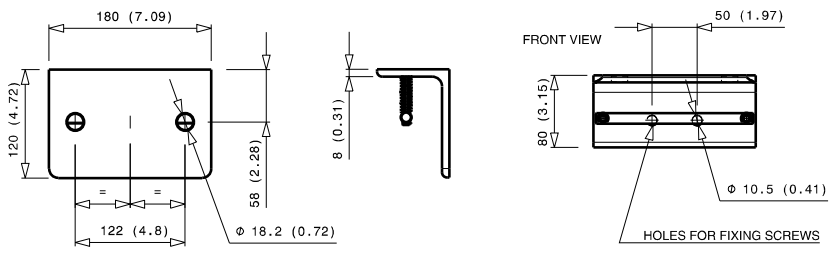
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,1 Kg*



Parking station for mobile multicoupling

2,4 Kg



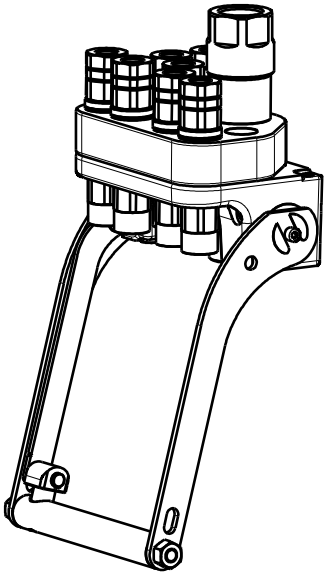
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GR8 7A-1D-7EC

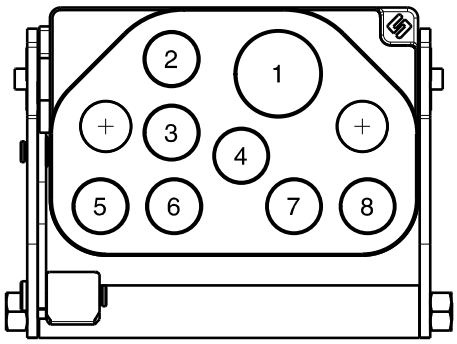
Previous description	Max. Resistance	FAP9 (A)		FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”		1/2”	5/8”	3/4”	1”
GR8AAZN	23000 N	7	D			1	

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

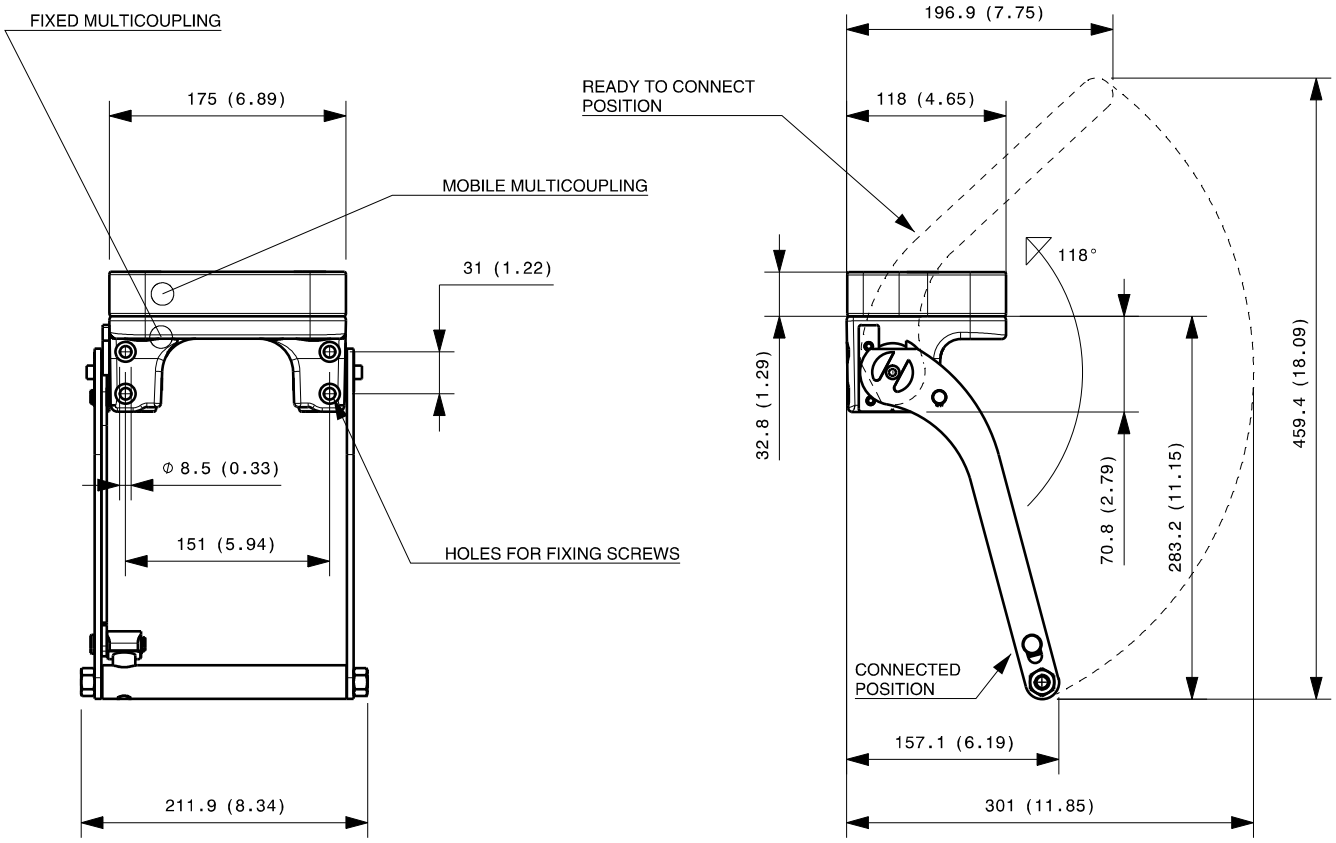
MultiCoupling (couplings included)		
Code	Name	Description
870016021	MULTI COMPLETE GR8 7A-1D	7 FAP9D 3/8 BSP - 1 FAP17 1 BSP - CAP
870016070	MULTI COMPLETE GR8 6A-1D-1EC	6 FAP9D 3/8 BSP - 1 FAP17 3/4 BSP - 1 EC7 - CAP
870016121	MULTI FIX GR8 7A-1D	7 FAP9D 3/8 BSP - 1 FAP17 1 BSP
870016221	MULTI MOBILE GR8 7A-1D	7 FAP9D 3/8 BSP - 1 FAP17 1 BSP
870016271	MULTI MOBILE GR8 6A-1D	6 FAP9D 3/8 BSP - 1 FAP17 3/4 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 V02
815606261	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V02
815701055	SPARE KIT LEVER GROUP GR 250x212

Custom configurations available upon request

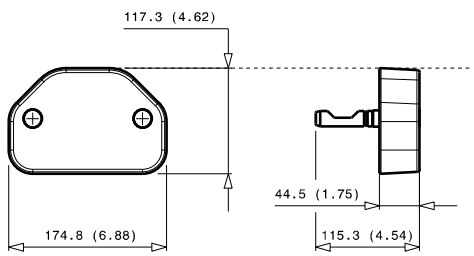
Fixed and mobile multicoupling

5,7 Kg and 2,8 Kg



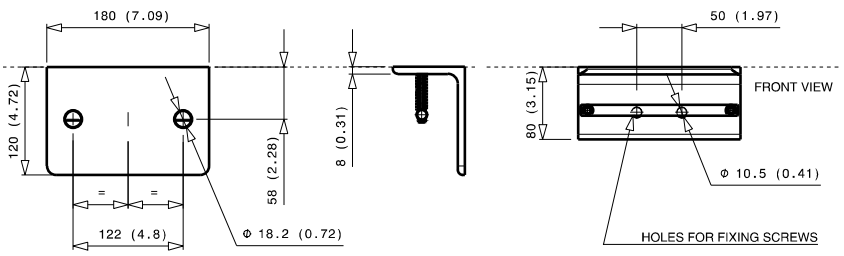
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,1 Kg*



Parking station for mobile multicoupling

2,3 Kg



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GR10 10A-2EC

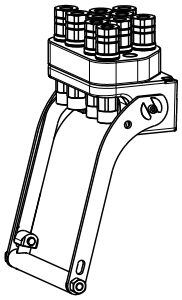
Previous description	Max. Resistance	FAP9 (A) 3/8”	FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”
Body size						
GR10-9ZN	23000 N	10 | D				



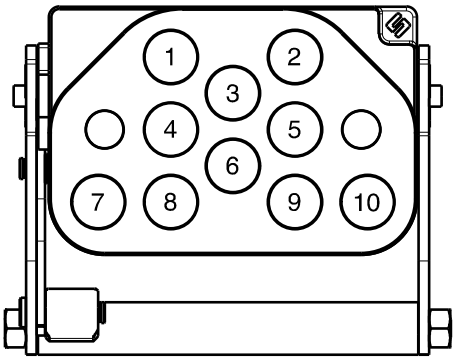
BOP

For full list of BOP products, refer to the BOP section at page 189.

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
870004035	MULTI COMPLETE GR10 10A	10 FAP9D 3/8 NPT - CAP
870004025	MULTI COMPLETE GR10 8A V03**	8 FAP9DSD 1/2 BSP - CAP
870004036	MULTI COMPLETE GR10 10A V03**	10 FAP9DSD 1/2 BSP - CAP
870004123	MULTI FIX GR10 10A	10 FAP9D 1/2 BSP
870004124	MULTI FIX GR10 10A	10 FAP9D 3/8 BSP
870004125	MULTI FIX GR10 8A V03**	8 FAP9DSD 1/2 BSP
870004135	MULTI FIX GR10 10A	10 FAP9D 3/8 NPT
870004136	MULTI FIX GR10 10A V03**	10 FAP9DSD 1/2 BSP
870004222	MULTI MOBILE GR10 8A	8 FAP9D 3/8 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
870004235	MULTI MOBILE GR10 10A	10 FAP9D 3/8 NPT
870004236	MULTI MOBILE GR10 10A V03**	10 FAP9DSD 1/2 BSP

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**

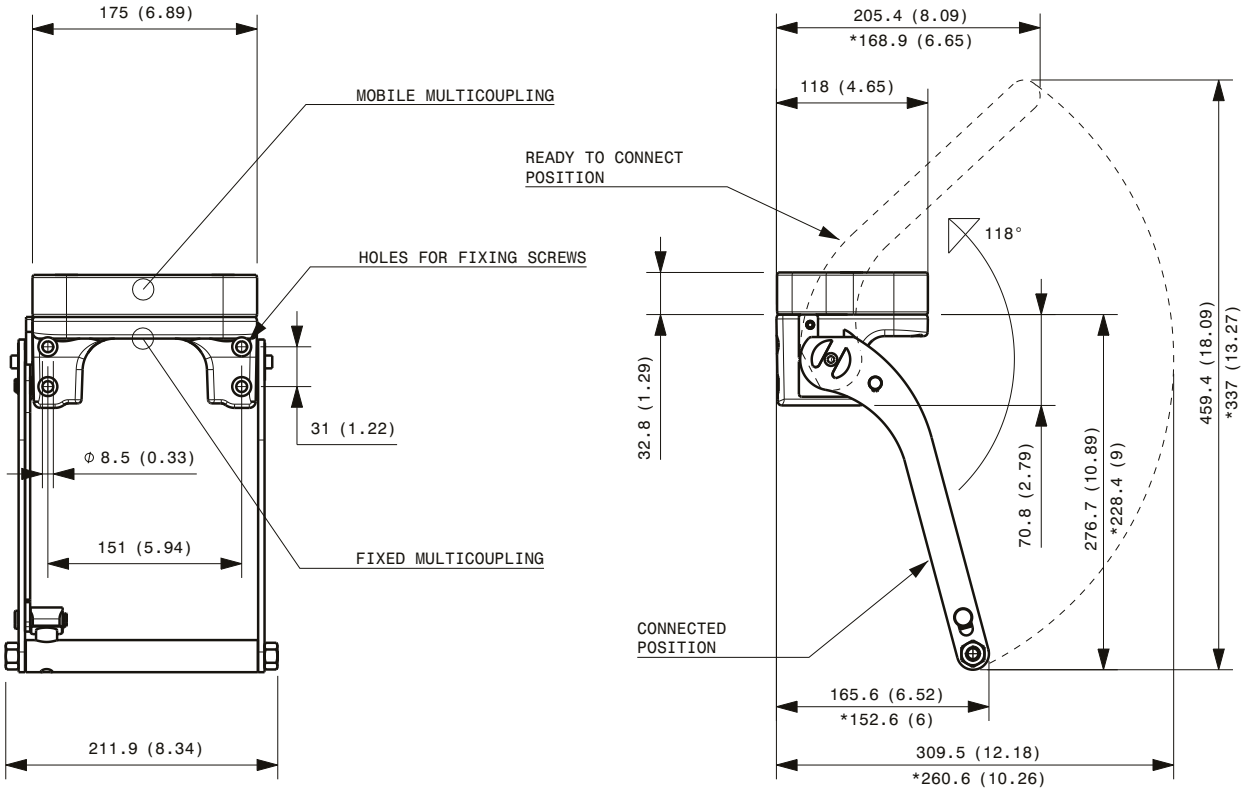
*** V01** = lever length | **** V03** = seal on plate

MultiCoupling spare parts	
Code	Name
815606258	CAP FIX MULTICOUPLING GR 175X117 V01*
815606286	CAP FIX MULTICOUPLING GR 175X117 V03**
815606259	PARKING STATION MOBILE MULTICOUPLING GR 180x120 V01*
815700999	SPARE KIT LEVER GROUP GR 250x212
UPON REQUEST	SPECIFIC KIT FOR V01* MODEL
815700996	SPARE KIT 1 F COUPLING+OR FOR V03 MODEL
815700997	SPARE KIT 1 M COUPLING+OR FOR V03 MODEL
815700998	SPECIFIC KIT FOR V03** MODEL

Custom configurations available upon request

Fixed and mobile multicoupling

5,7 Kg and 2,7 Kg

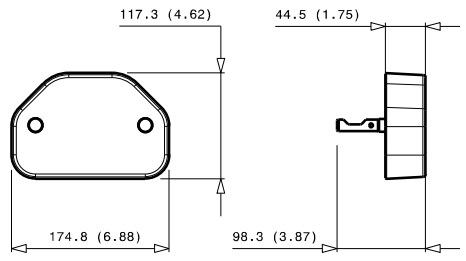


Available also model with shorter level, in case of need ask the drawing to info@stucchigroup.com.

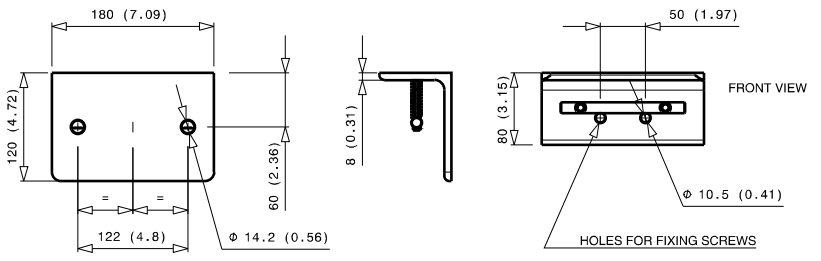
Dimensions in millimeters (inch)

**dimensions of the V01 version*

Cap for fixed multicoupling *1,1 Kg*



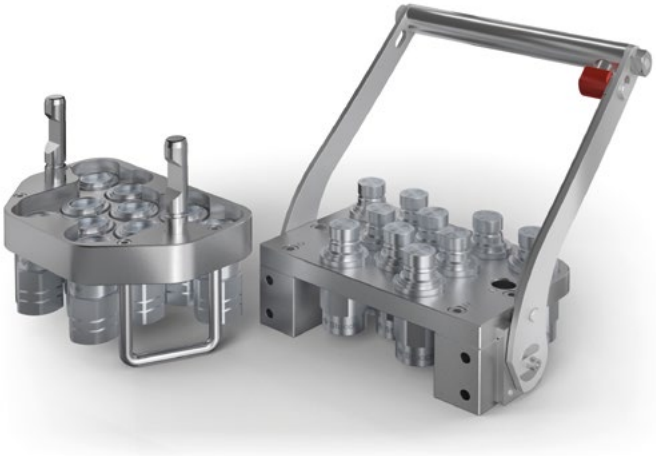
Parking station for mobile multicoupling *2,2 Kg*



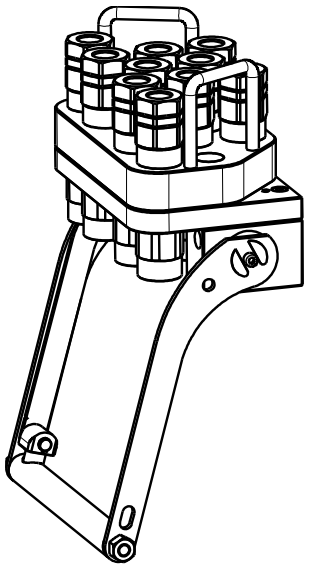
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GR 10 10B-2EC

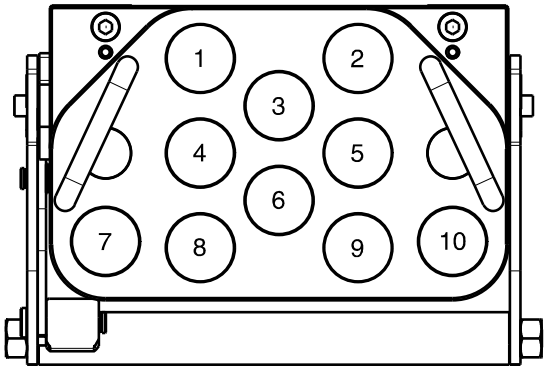
Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8”	1/2”	5/8”	3/4”	1”
GR10-13ZN	8000 N		10			



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

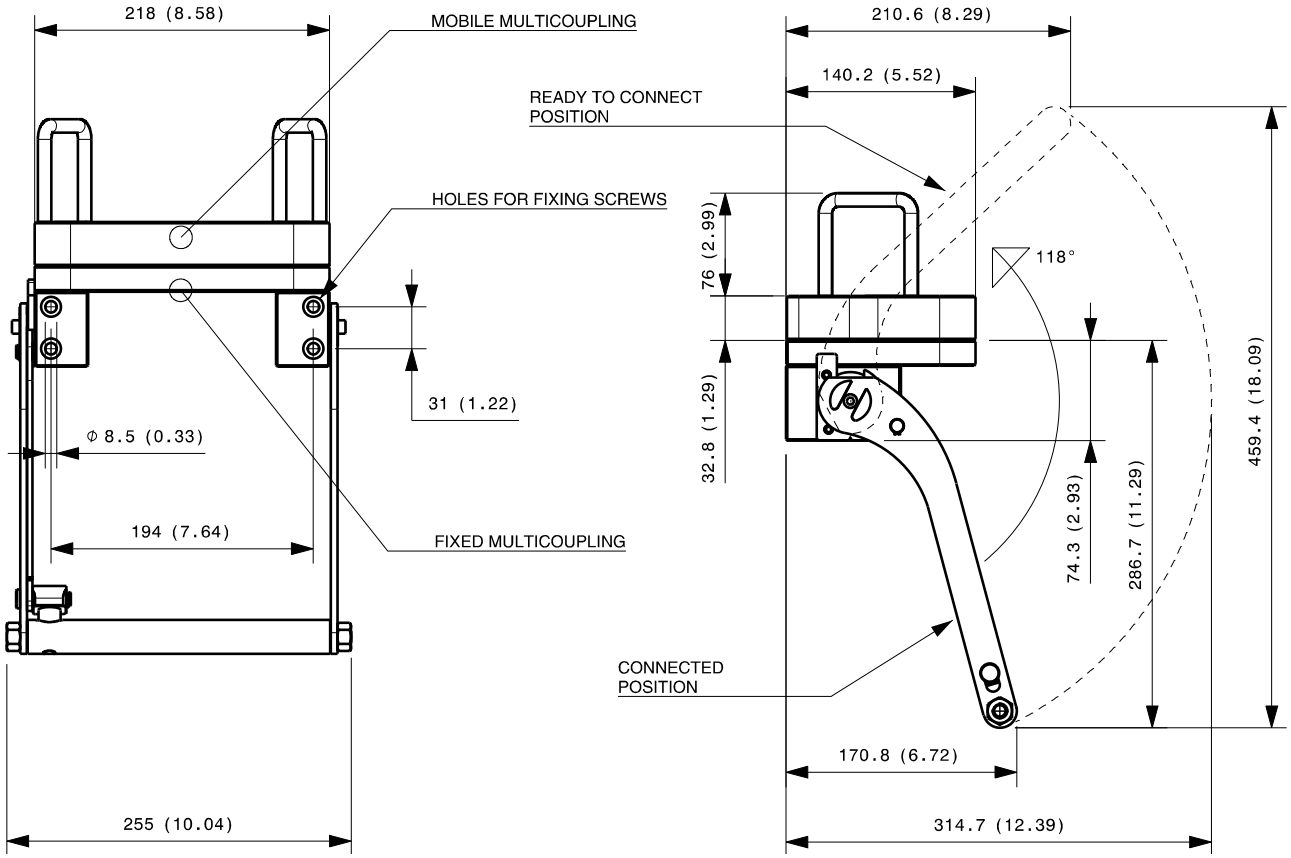
MultiCoupling (couplings included)		
Code	Name	Description
870010008	MULTI COMPLETE GR10 10B	10 FAP13 3/4 BSP - CAP
870010009	MULTI COMPLETE GR10 10B	10 FAP13 1/2 BSP - CAP
870010010	MULTI COMPLETE GR10 10B	10 FAP13 1/2 NPT - CAP
870010014	MULTI COMPLETE GR10 7B	7 FAP13 1/2 BSP - CAP
870010018	MULTI COMPLETE GR10 8B	8 FAP13 1/2 BSP - CAP
870010109	MULTI FIX GR10 10B	10 FAP13 1/2 BSP
870010111	MULTI FIX GR10 8B	4 FAP13 1/2 SAE - 4 FAP13 3/4 SAE
870010112	MULTI FIX GR10 8B	8 FAP13 3/4 SAE
870010209	MULTI MOBILE GR10 10B	10 FAP13 1/2 BSP
870010210	MULTI MOBILE GR10 10B	10 FAP13 1/2 NPT
870010211	MULTI MOBILE GR10 8B	4 FAP13 1/2 SAE - 4 FAP13 3/4 SAE
870010215	MULTI MOBILE GR10 2B	2 FAP13 1/2 BSP
870010217	MULTI MOBILE GR10 10B	10 FAP13 3/4 NPT

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	SPARE KIT LEVER GROUP GR 250x256

Custom configurations available upon request

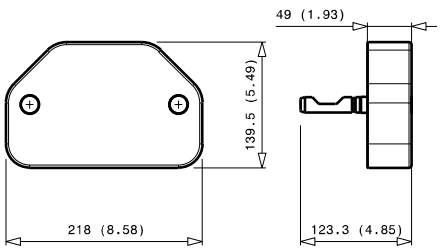
Fixed and mobile multicoupling

7,5 Kg and 4,3 Kg



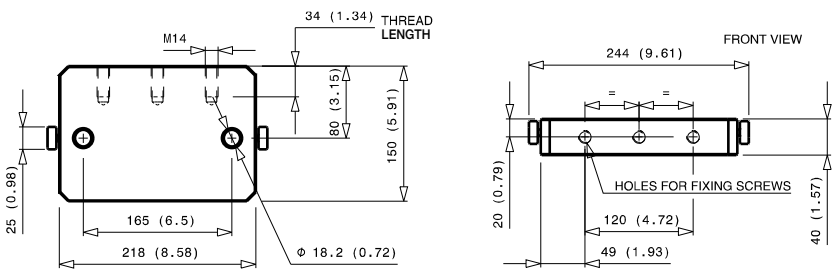
Dimensions in millimeters (inch)

Cap for fixed multicoupling *1,7 Kg*



Parking station for mobile multicoupling

3,4 Kg

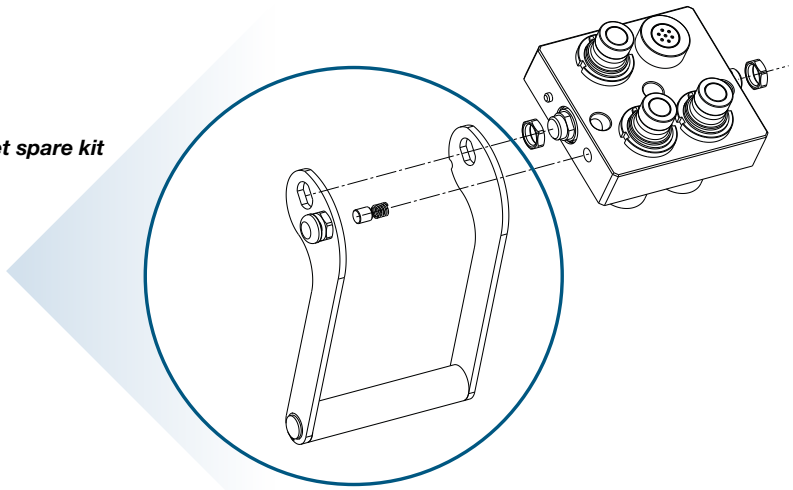


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Spare Kit Lever

DP Series

Complete lever set spare kit
Composed of:
Levers
Spring
Pin
Handle
Seeger ring
Red button



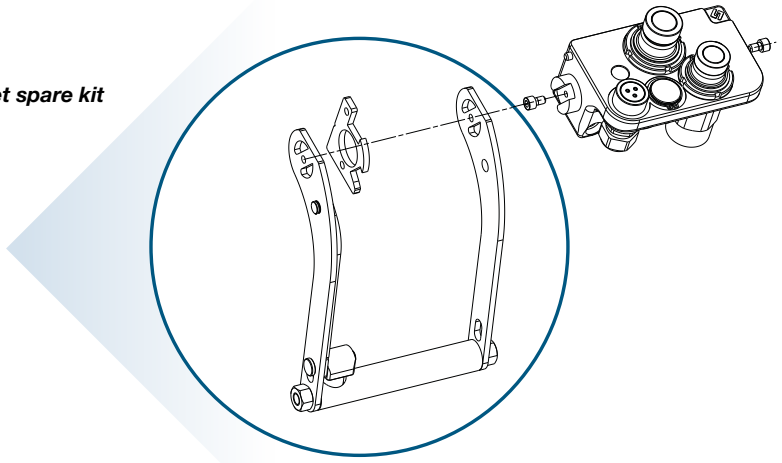
How to replace it

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 - it is pushed by a spring! Be careful.

GR Series

Complete lever set spare kit
Composed of:
Little plate
Levers
Wedge
Pins
Seeger ring
Handle
Nut
Red button
Internal spring



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 - it is pushed by a spring! Be careful.

Instructions and warning

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.
Connection under pressure ae 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.
The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.
It is mandatory to carefully read and closely follow the instructions before selecting or using any Stucchi products.
Always refer to the version uploaded in the Instructions and warnings section of stucchigroup.com website for the latest release.
In case of doubt or for specific product-related instructions, please contact Stucchi technical service.

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.
- Correct disposal of the product at the end of its life, see paragraph ‘disposal instructions’.

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.
Do not overheat the coupling in a closed circuit, as it may lead to overpressure and consequential burst or damage.

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 burstpressure 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 be 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 Hose size
The optimal is to use the hoses having the same sizes as the coupling body, can be used the hoses having one size more (step up) than the coupling but not bigger otherwise they can overstress the coupling with risk of failure.

4.3 Hose assembling
In case of single coupling one part (female or male) can be assembled directly on the rigid tube, but the other part shall be assembled on the flexible hose in order to allow an easy connection and absorb better the vibration and mechanical stress.
In case of the multicoupling both parts (fixed and mobile) shall be assembled on the flexible hoses to avoid the misalignment of the couplings.
Once connected the flexible hose should create a right radius according to the hose manufacturer specifications, in this way the connection/disconnection of the couplings takes place in easy way and aligned position.

4.4 Side load
Don't apply radial/axial loads that create misalignment of the couplings during connection/disconnection and can cause damage on the connection and sealing parts.

4.5 Fitting assembling
Use fittings 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 fittings.

4.6 Positioning of the coupling
It is suggested to install the couplings in such way that they can easy be connected and disconnected, reducing to the minimum the forces and risks for the operator.
It's suggested to install the coupling not exposed in order to protect if from collision with other parts.
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. A loss of fluid contained in the circuit may occur during the disconnection of the coupling. The approximate spillage values are shown in the catalog. It is recommended to pay maximum attention during the disconnection phase and to activate the necessary precautions to avoid the dispersion of fluids in the environment.

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 various 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 reparation 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.

7.0 DISPOSAL INSTRUCTIONS

Do not litter the product after use.
The product must be disposed according to the local law and the requirements of the relevant local authorities.
Details about product composition are reported in the catalogs on stucchigroup.com.
The user is responsible for the waste characterization and its disposal.

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 stucchigroup.com before selecting or using Stucchi products.**