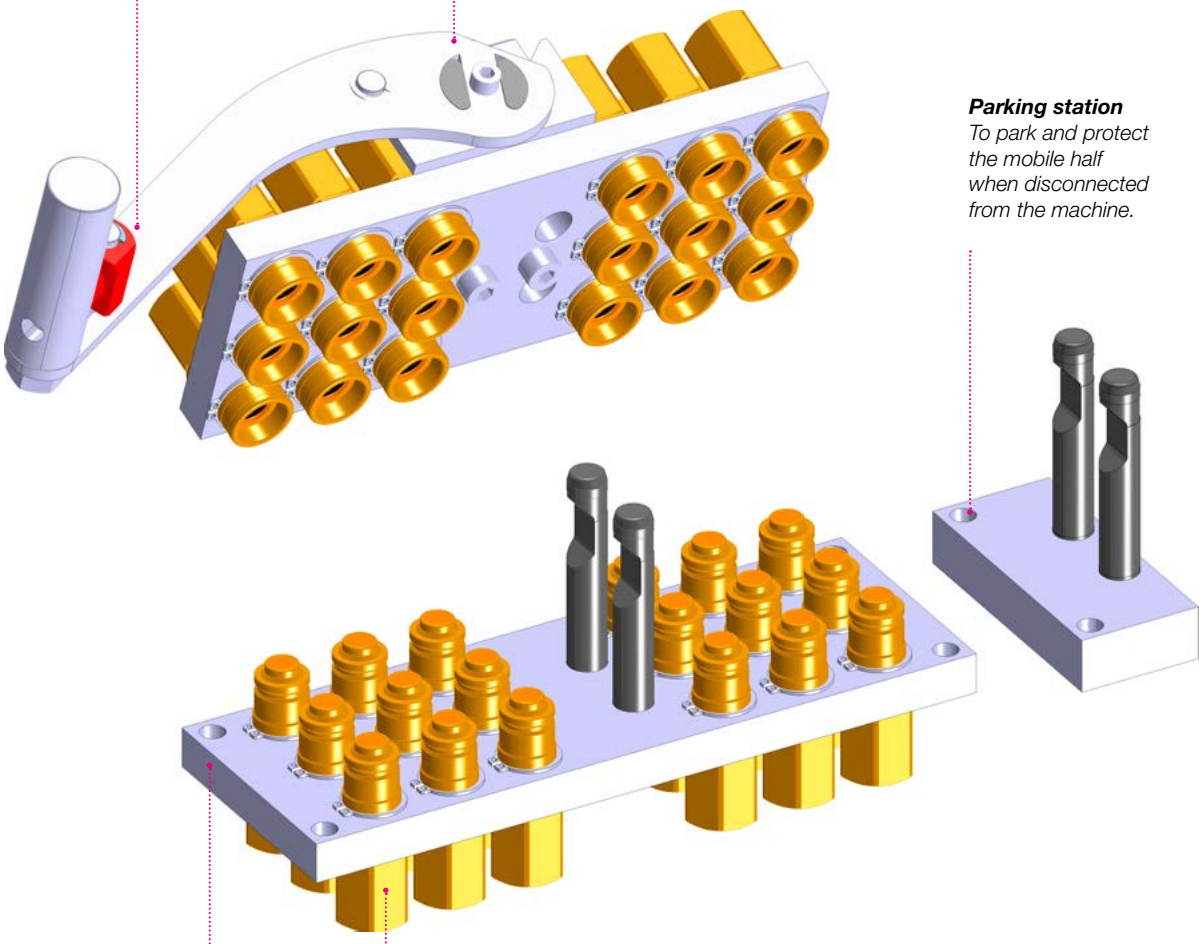
GRE: glossary

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

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



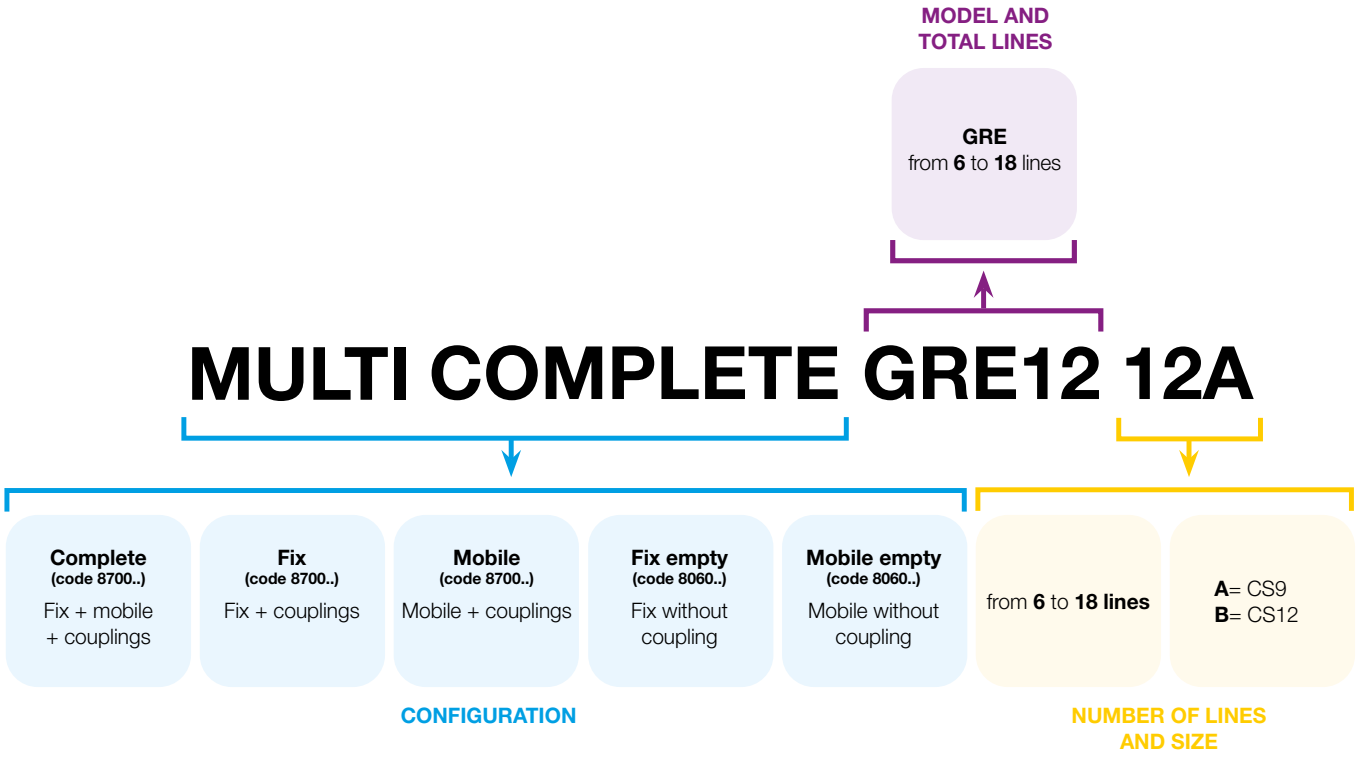
Parking station
To park and protect the mobile half when disconnected from the machine.

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

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

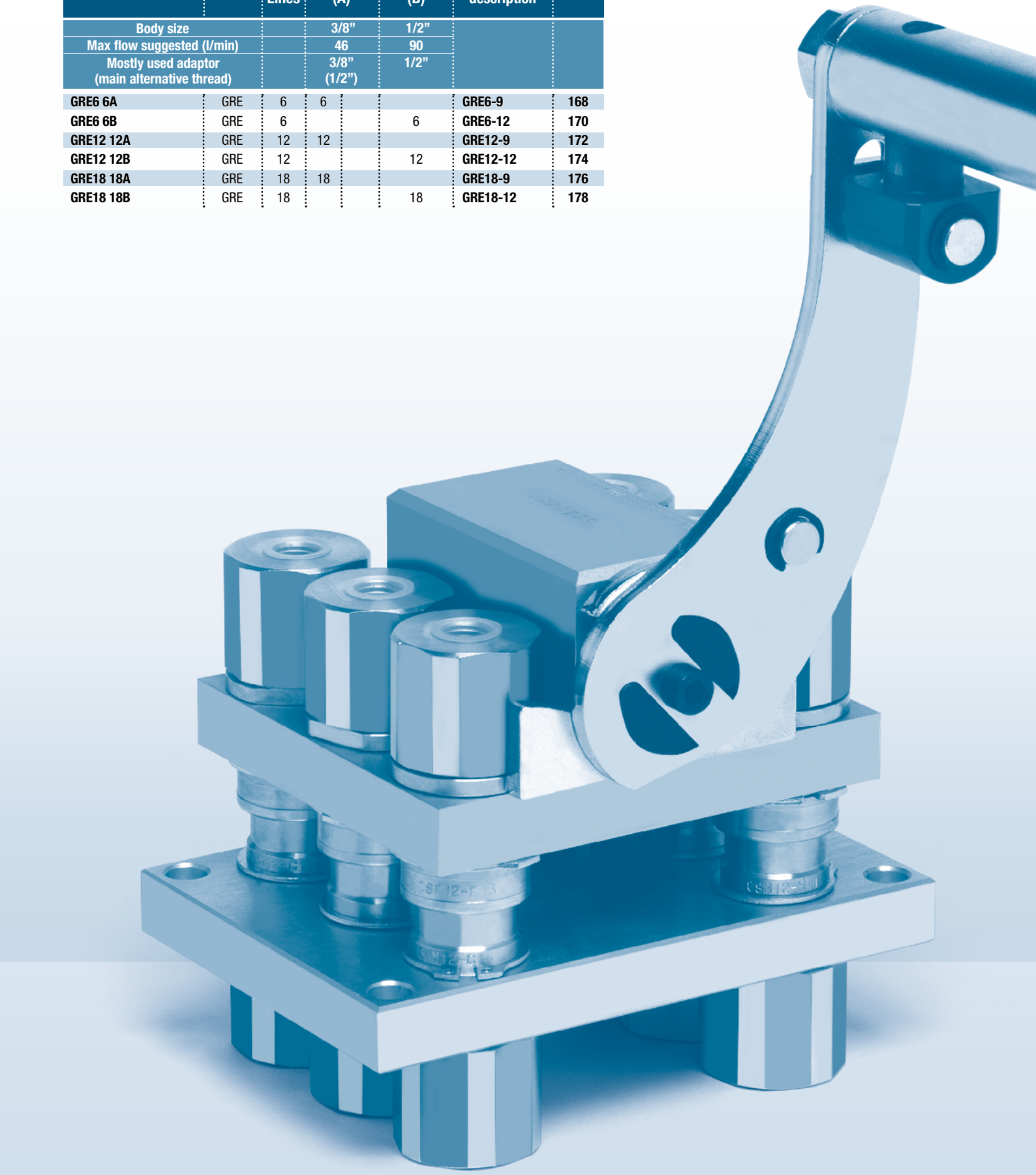
GRE: multi description

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…



GRE: multi map

New name	Family	Total Lines	CS9 (A)	CS12 (B)	Previous description	Page
Body size			3/8”	1/2”		
Max flow suggested (l/min)			46	90		
Mostly used adaptor (main alternative thread)			3/8” (1/2”)	1/2”		
GRE6 6A	GRE	6	6		**GRE6-9**	**168**
GRE6 6B	GRE	6		6	**GRE6-12**	**170**
GRE12 12A	GRE	12	12		**GRE12-9**	**172**
GRE12 12B	GRE	12		12	**GRE12-12**	**174**
GRE18 18A	GRE	18	18		**GRE18-9**	**176**
GRE18 18B	GRE	18		18	**GRE18-12**	**178**



GRE: how to choose

Water/Glycol - Air/Oil

Operating pressure up to
10 bar - 145 psi

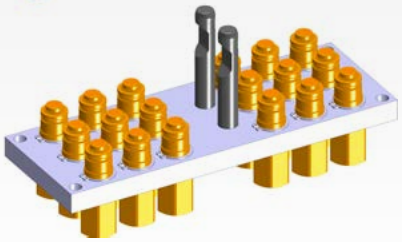
Connection/Disconnection
without residual pressure

GRE

Features

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





GRE: how to choose

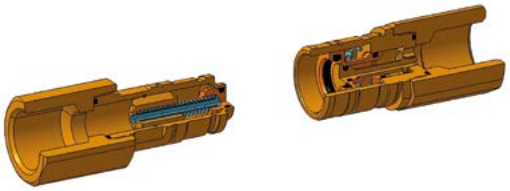
CHOOSE CONFIGURATION OF THE MULTICOUPLING



1 Dimension your CS couplings

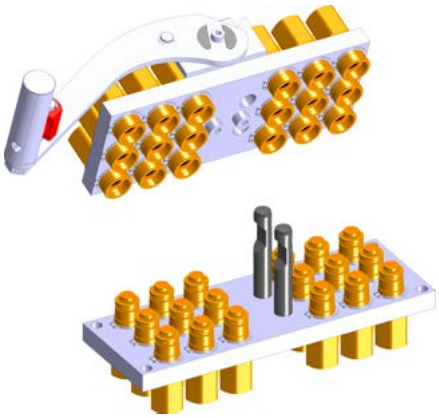
Coupling size choice is based on:

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



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

***Eg**: 6 x size 3/8”*



3 Choose the multicoupling for your configuration

Use the overview table “Multi description” to choose the multicoupling for your listing/ configuration

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

Advices:

1. you can increase the size of couplings to have a better match with an existing configuration.

2. In case of too many lines, you may need to divide your configuration in different plates.

GRE: features

Technical features and options



Interchange
Stucchi internal specification



Available threads
BSP NPT hose barb or other port available on request



Mechanical connection
Internal cams and locking pins



Valving style
Non Spill type



Connection/disconnection system
Rotating the lever & lock the safety button



Operating pressure
Up to 10 bar/145 psi



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



Flow rate
Up to 90 l/min - 24 gpm



Nominal diameter available
3/8" (CS9) - 1/2" (CS12)

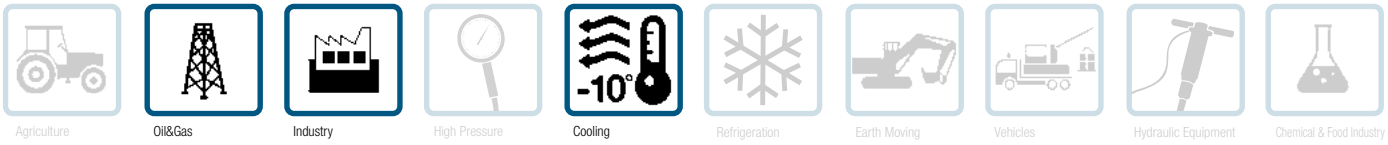


Temperature
- for oil, from -20° C to +100° C (from -4° F to +212° F)
- for water, from +5° C + 60° C (from +41° F to +140° F)



Connection under pressure
not allowed

Application



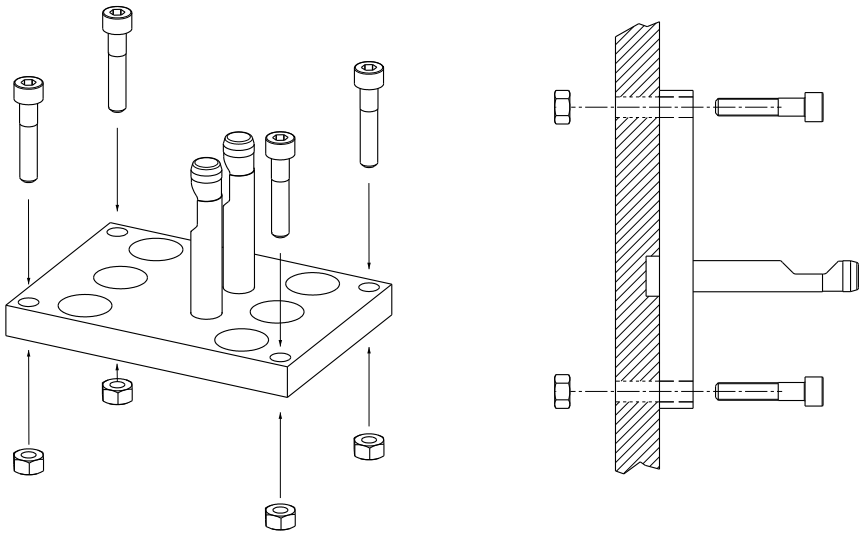
Benefits

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

GRE: installation

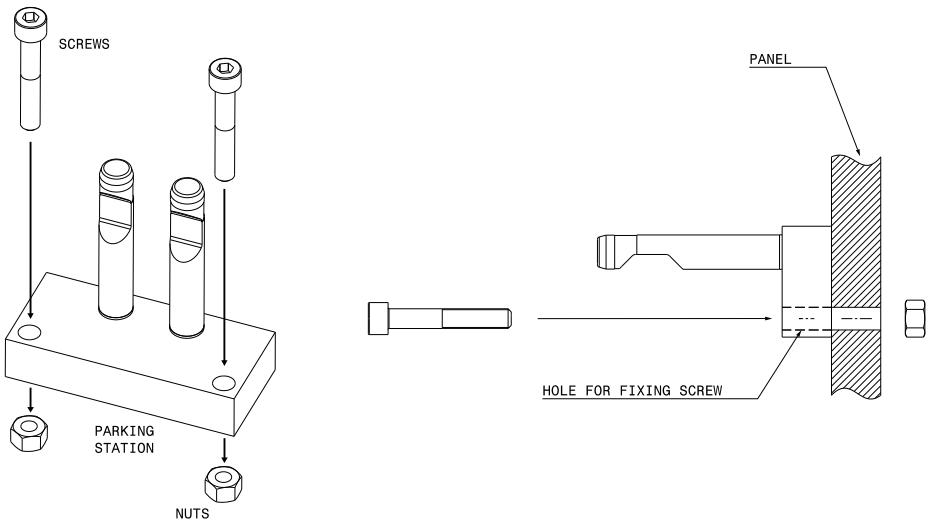
Installation

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



To install the parking station

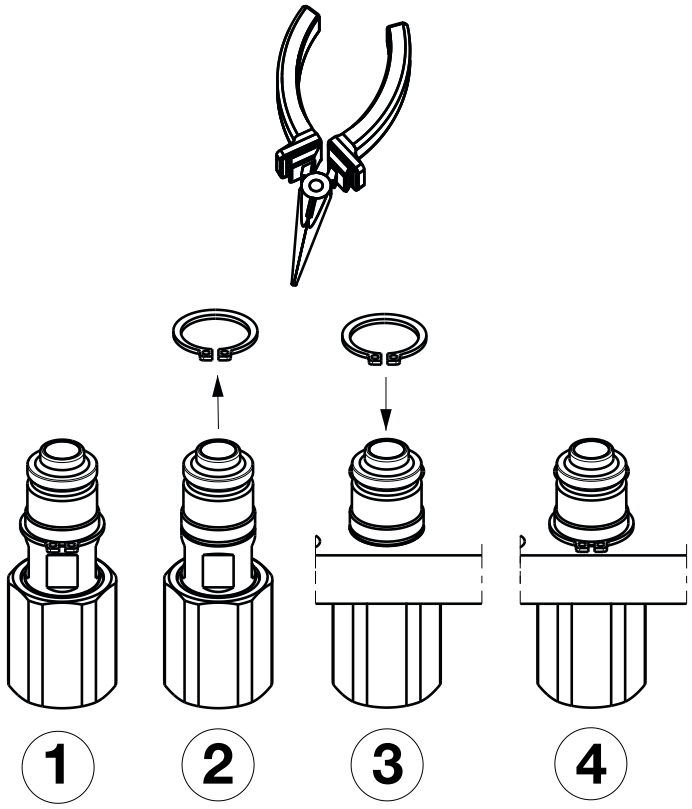
To install the parking station ensure the space to assemble the parking station is enough to allow the correct connection & disconnection in an ergonomic way. Check the drawing of the parking station. Fix the parking station body on the machine or the frame of the attachment using fixing screws as indicated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



GRE: how to use

CS: How to install

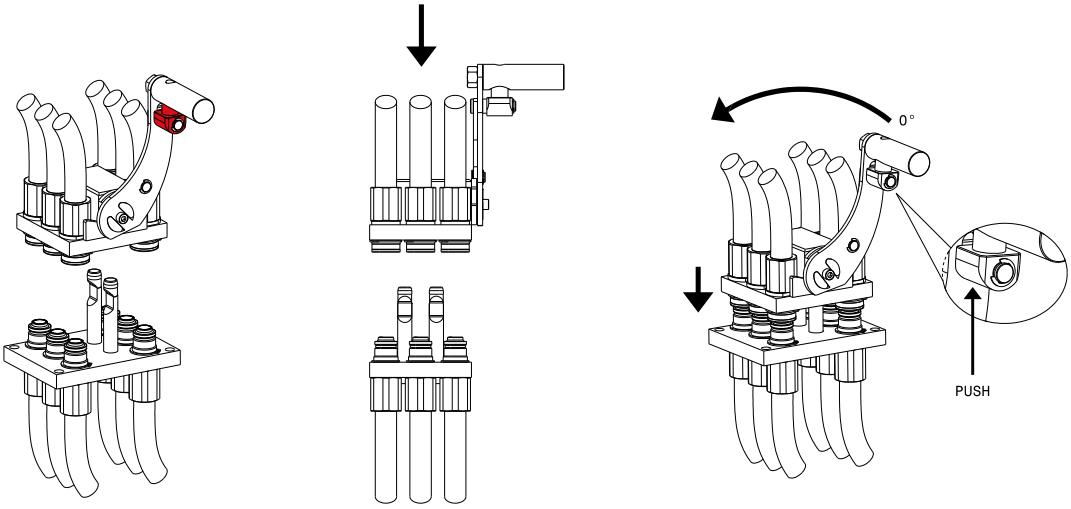
- CS couplings are normally supplied already assembled on the Stucchi multiconnection or may be supplied as a spare part to be replaced on a Stucchi multiconnection.
- Use flexible hoses to connect the couplings; avoid to use rigid pipes as they could transmit excessive side load&vibration to the multiconnection.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



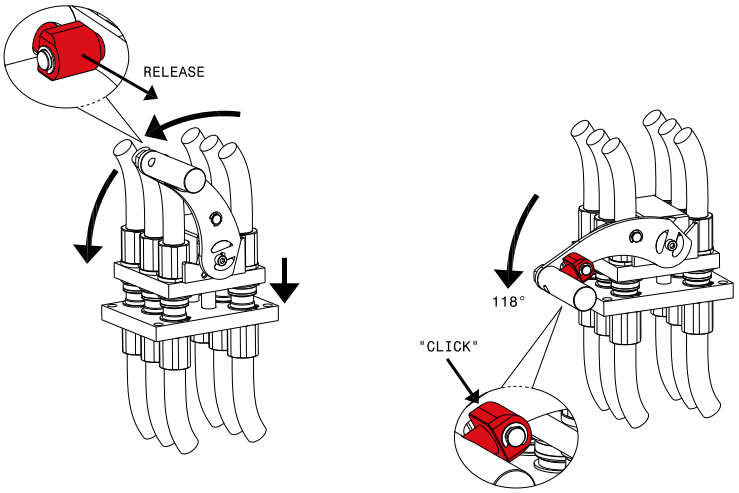
GRE: how to use

To connect

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

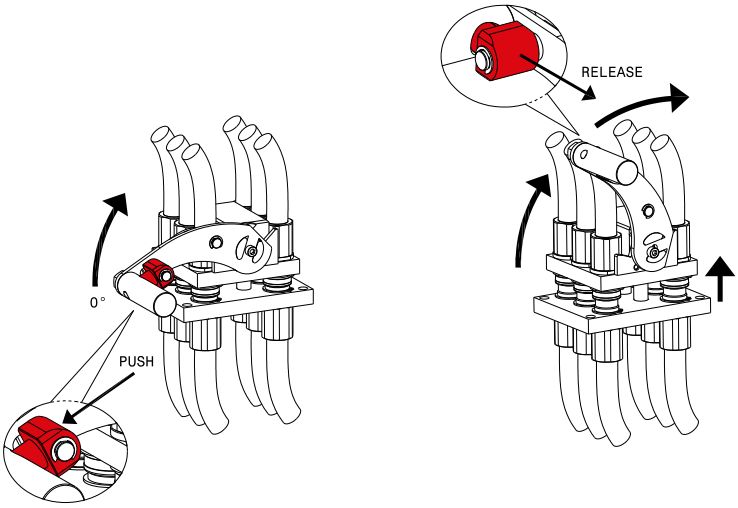


After a short rotation release the red button;
Continue to rotate till the safety lock automatically engages itself in the final position.
Now the multicoupling is coupled and ready to work.

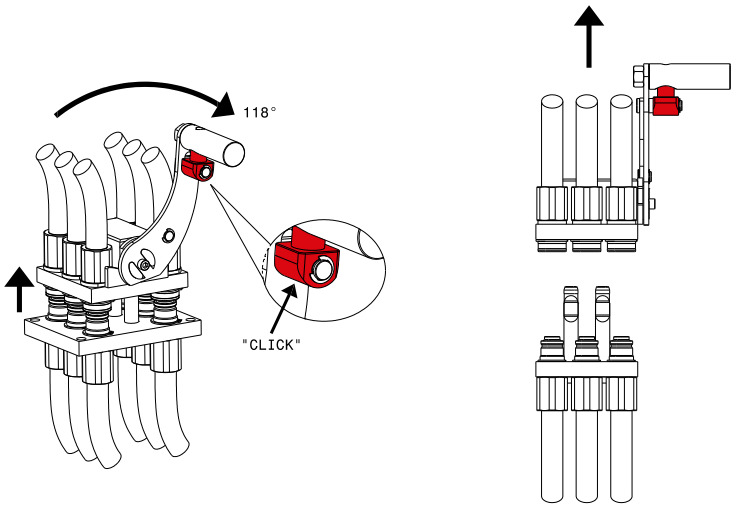


To disconnect

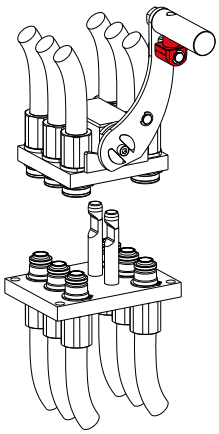
Release the pressure in the system. To disconnect reverse process: engage the locking mechanism (by pushing red button) and raise handle in upward direction. After short rotation release the red button.



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



Now the multicoupling is uncoupled.

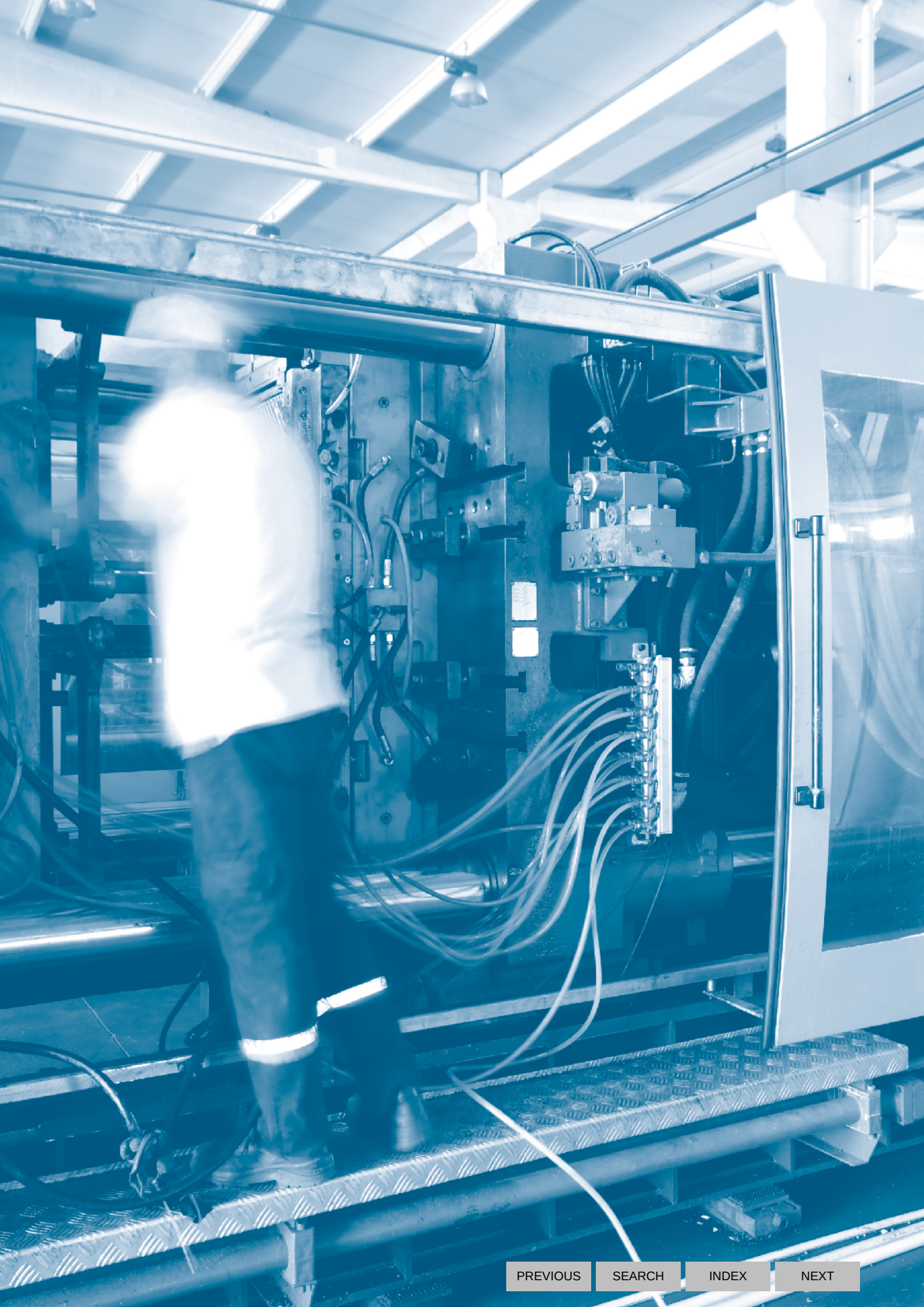


WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.
Never connect or disconnect with dynamic pressure (e.g. pump on).
Do not use the female coupling disconnected with high impulse pressure.
Do not couple-uncouple with flow and/or pressure in the circuit.
Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).
Check the maximum allowable operating pressure of the port in use.
Make sure that the medium used is compatible with seal and material as indicated for each series.
In case of doubt please contact Stucchi Technical Support.
It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on Stucchi website (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.
Do not modify, disassemble or damage the product, the lever or safety lock system
Do not use GRE multiconnection for high pressure and high temperature application.
Please refer to CS coupling datasheet & single GRE multiconnection datasheet.

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Low pressure



GRE p. 168

Valving style: Flat face
Interchange: Stucchi profile
Sealing description: Nitrile NBR
Available sizes: From 3/8” to 1/2”
Operating pressure: Up to 10 bar
Flow rate: Up to 90 l/min
Material: Aluminium

COUPLINGS



CS p. 181

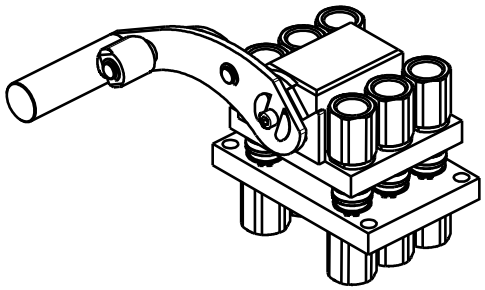
Valving style: Flat face
Interchange: Stucchi interface
Available sizes: From 3/8” to 1/2”
Operating pressure: Up to 10 bar
Flow rate: Up to 90 l/min
Connection system:
By multicoupling
Connection under pressure:
Not allowed

GRE 6A

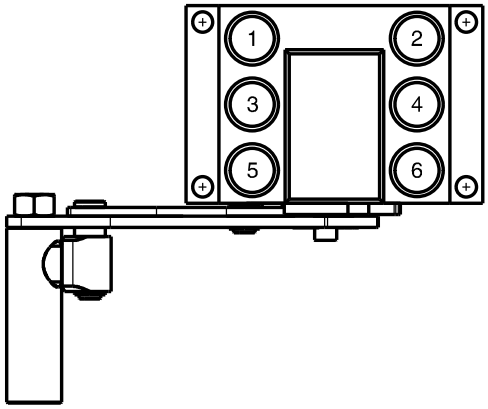
Previous description	Body size	CS9 (A) 3/8”	CS12 (B) 1/2”
GRE6-9		6	

DRAWING





CONFIGURATIONS



Possible configurations	
Pos	Coupling size
ALL	CS9

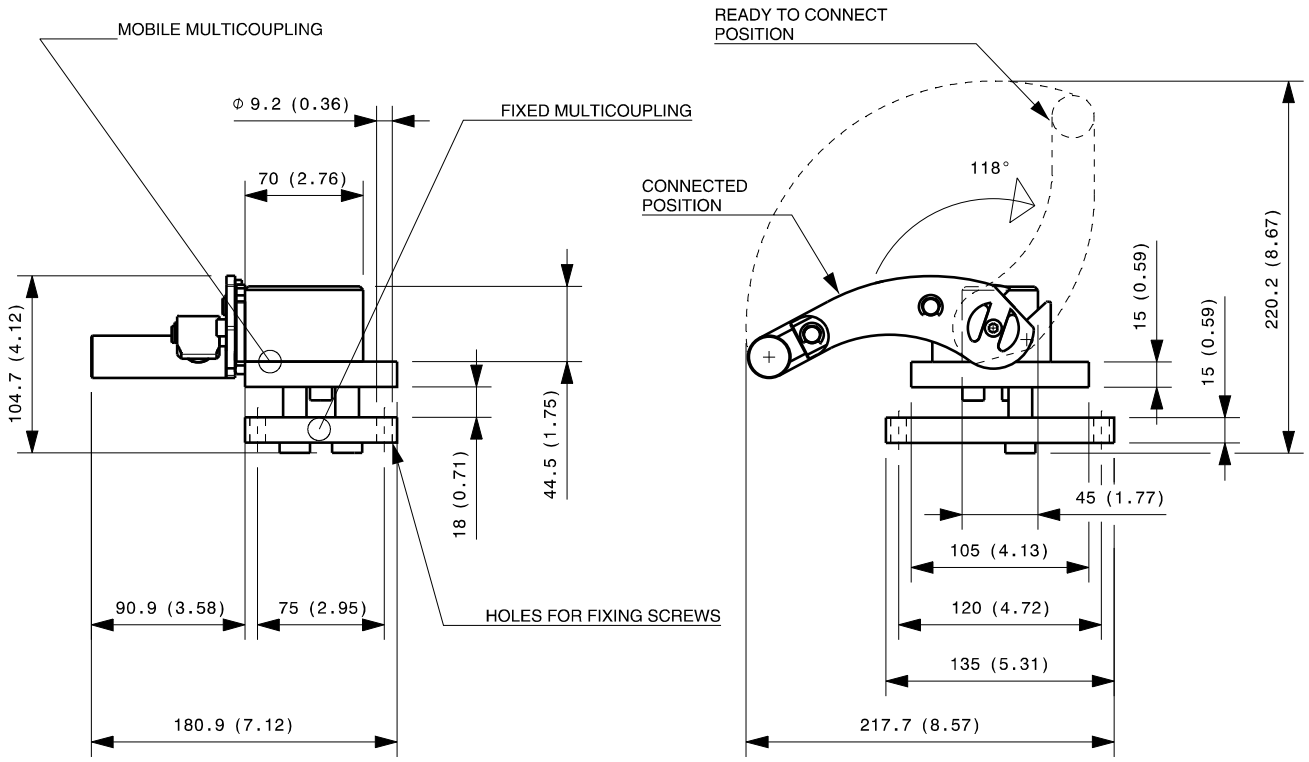
MultiCoupling (couplings included)		
Code	Name	Description
870020117	MULTI FIX GRE6 6A	6 CS9 3/8 BSP
870020217	MULTI MOBILE GRE6 6A	6 CS9 3/8 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000024	MULTI FIX EMPTY GRE6 6A
806000025	MULTI MOBILE EMPTY GRE6 6A
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701059	SPARE KIT LEVER GROUP GRE 125x95

Custom configurations available upon request

Fixed and mobile multicoupling

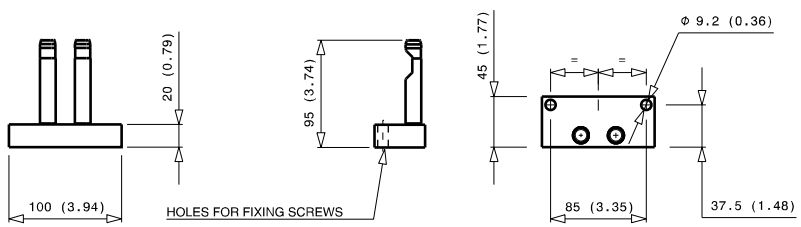
0,6 Kg and 1,5 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



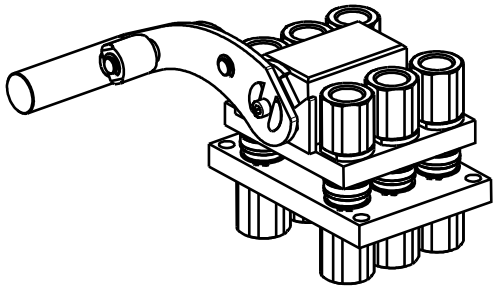
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GRE6 6B

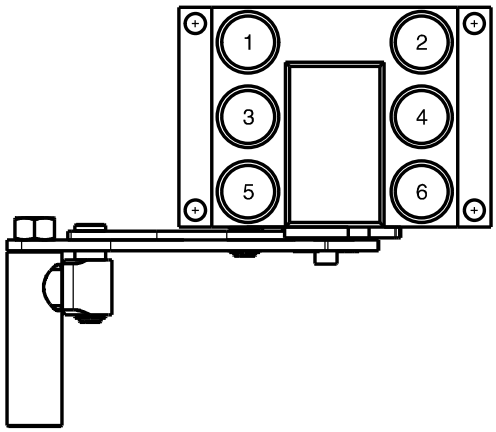
Previous description	Body size	CS9 (A) 3/8”	CS12 (B) 1/2”
GRE6-12			6

DRAWING





CONFIGURATIONS



Possible configurations	
Pos	Coupling size
ALL	CS12

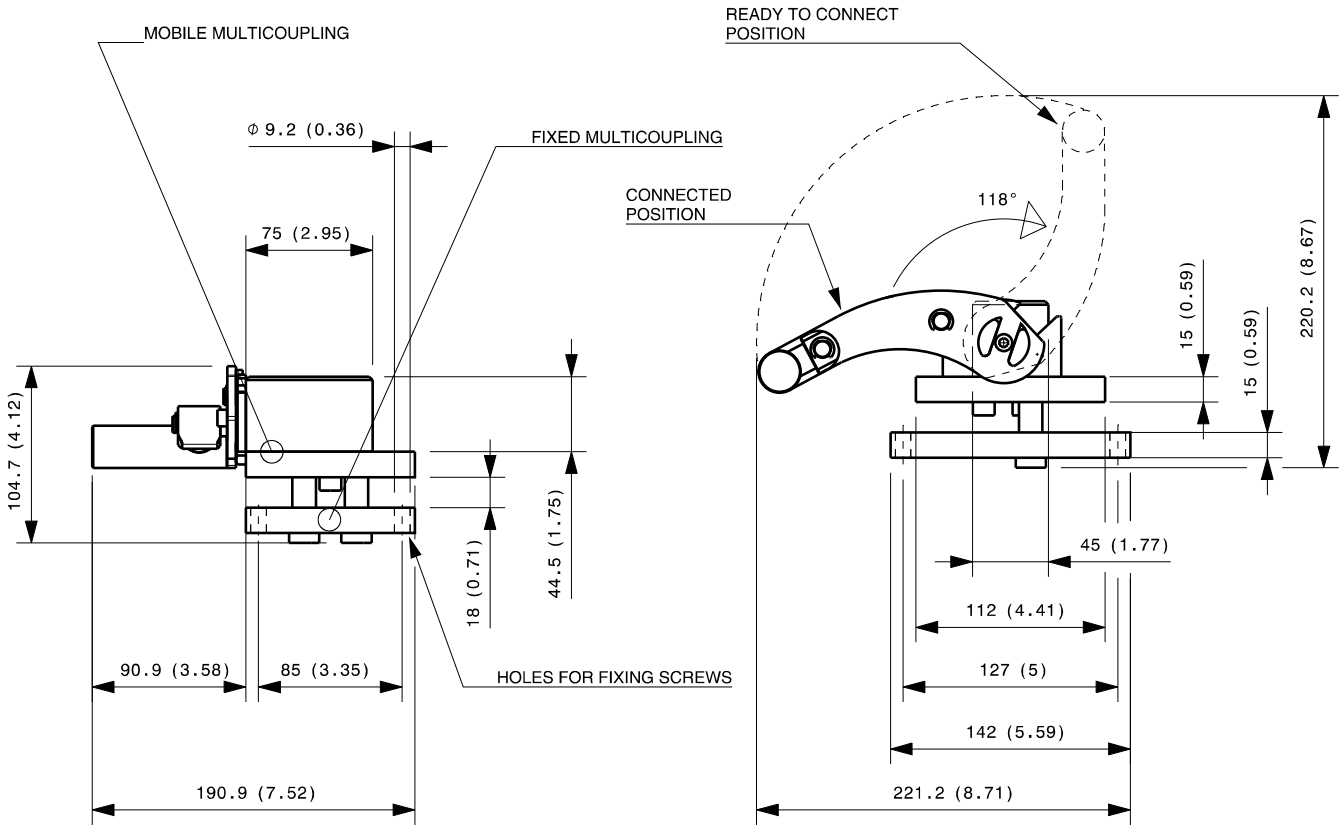
MultiCoupling (couplings included)		
Code	Name	Description
870020005	MULTI COMPLETE GRE6 6B	6 CS12 1/4 BSP
870020105	MULTI FIX GRE6 6B	6 CS12 1/4 BSP
870020111	MULTI FIX GRE6 4B	4 CS12 1/2 BSP
870020118	MULTI FIX GRE6 6B	6 CS12 1/2 BSP
870020205	MULTI MOBILE GRE6 6B	6 CS12 1/4 BSP
870020211	MULTI MOBILE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

MultiCoupling spare parts (couplings not included)	
Code	Name
806000090	MULTI FIX EMPTY GRE6 6B
806000091	MULTI MOBILE EMPTY GRE6 6B
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701059	SPARE KIT LEVER GROUP GRE 125x95

Custom configurations available upon request

Fixed and mobile multicoupling

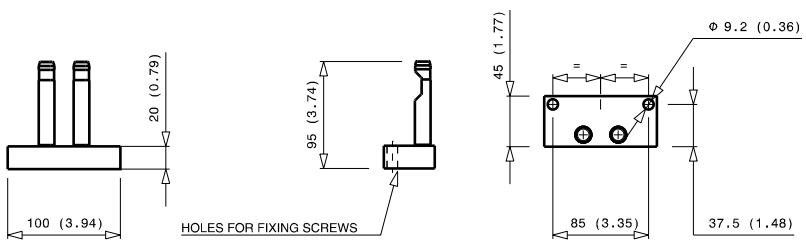
0,7 Kg and 1,6 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



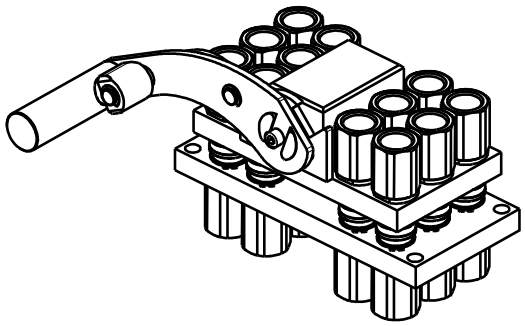
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GRE12 12A

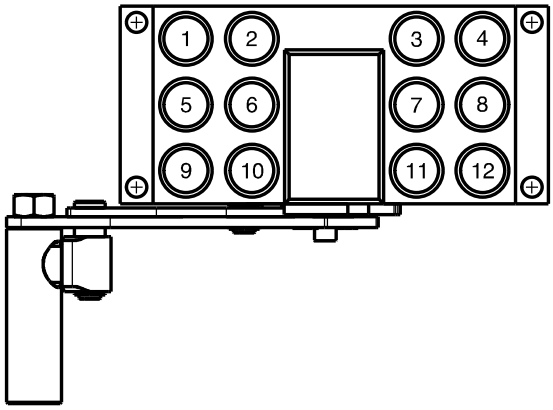
Previous description	Body size	CS9 (A) 3/8”	CS12 (B) 1/2”
GRE12-9		12	

DRAWING





CONFIGURATIONS



Possible configurations	
Pos	Coupling size
ALL	CS9

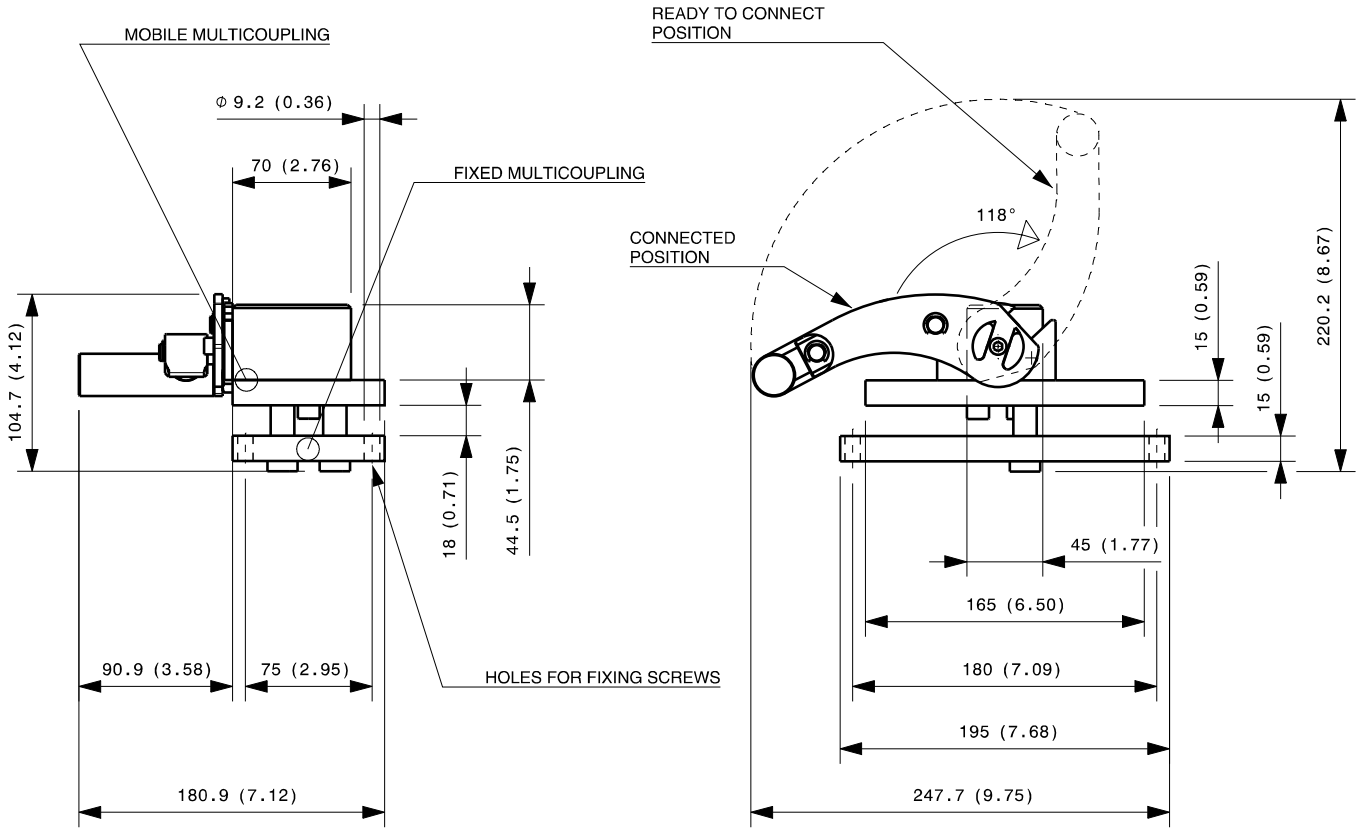
MultiCoupling (couplings included)		
Code	Name	Description
870020010	MULTI COMPLETE GRE12 12A	12 CS9 3/8 NPT
870020112	MULTI FIX GRE12 8A	8 CS9 1/2 BSP
870020208	MULTI MOBILE GRE12 12A	12 CS9 3/8 NPT
870020212	MULTI MOBILE GRE12 8A	8 CS9 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000020	MULTI FIX EMPTY GRE12 12A
806000021	MULTI MOBILE EMPTY GRE12 12A
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701059	SPARE KIT LEVER GROUP GRE 125x95

Custom configurations available upon request

Fixed and mobile multicoupling

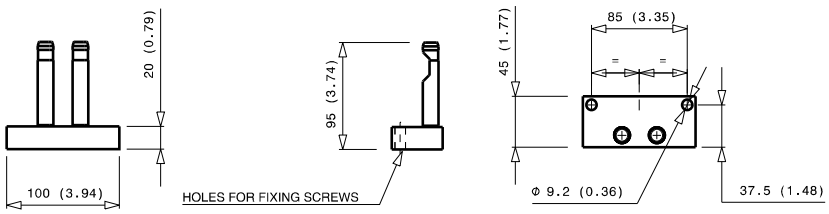
0,7 Kg and 1,6 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



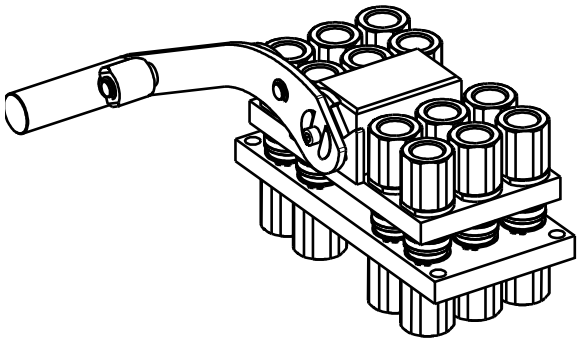
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GRE12 12B

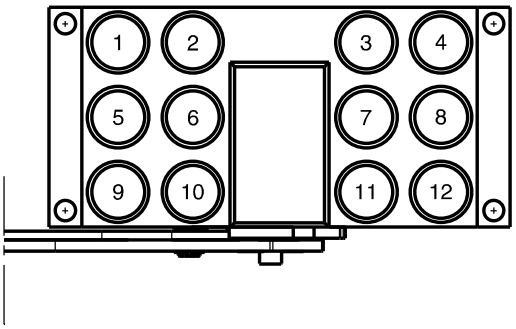
Previous description	Body size	CS9 (A) 3/8”	CS12 (B) 1/2”
GRE12-12			12

DRAWING





CONFIGURATIONS



Possible configurations	
Pos	Coupling size
ALL	CS12

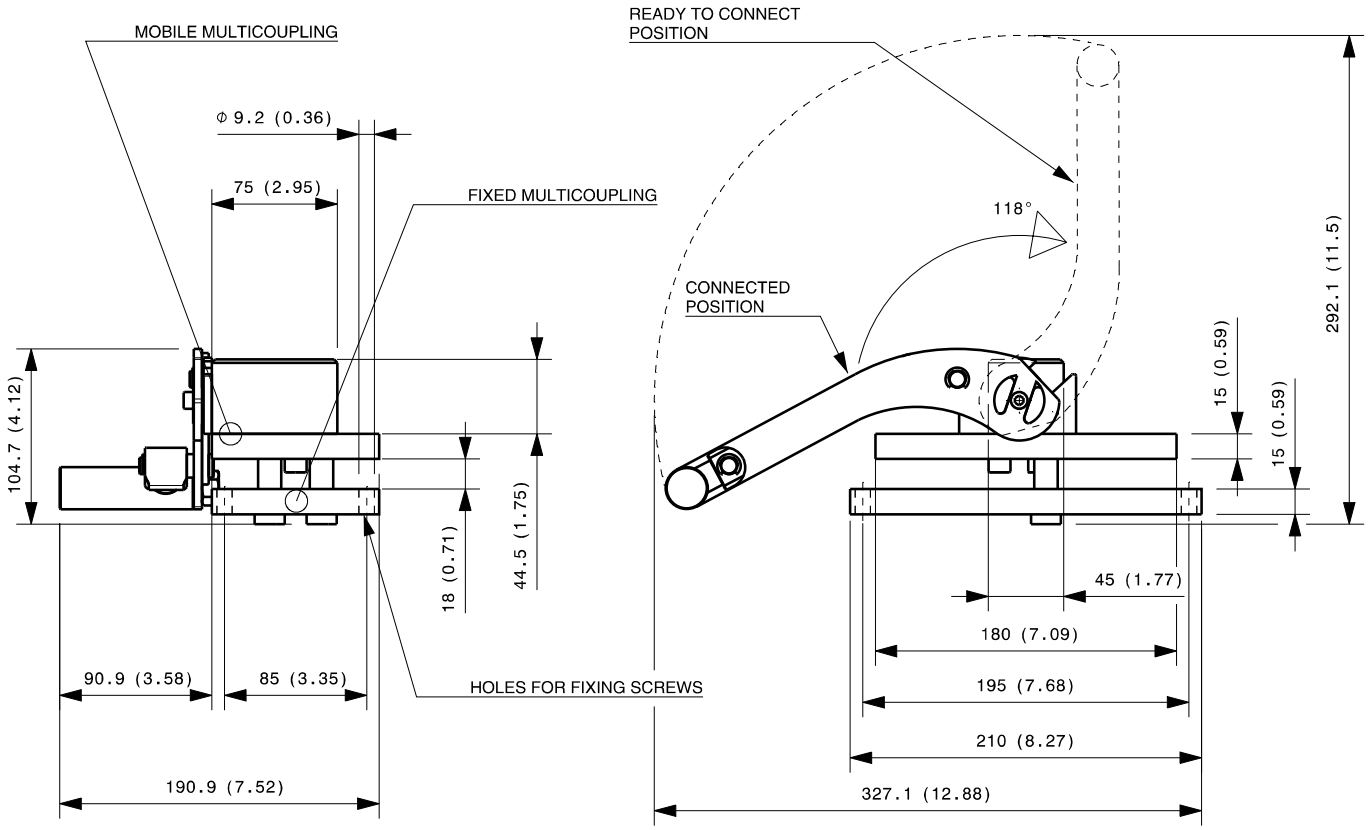
MultiCoupling (couplings included)		
Code	Name	Description
870020109	MULTI FIX GRE12 12B	12 CS12 1/2 BSP
870020209	MULTI MOBILE GRE12 12B	12 CS12 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000026	MULTI FIX EMPTY GRE12 12B
806000027	MULTI MOBILE EMPTY GRE12 12B
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701078	SPARE KIT LEVER GROUP GRE 200x95

Custom configurations available upon request

Fixed and mobile multicoupling

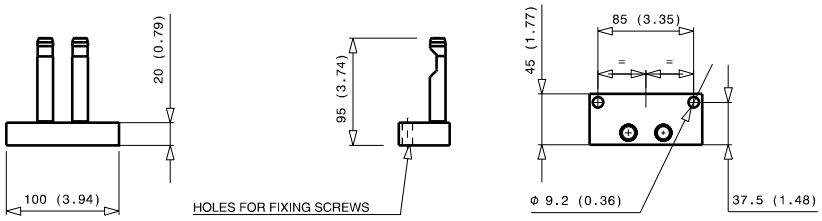
0,8 Kg and 1,8 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



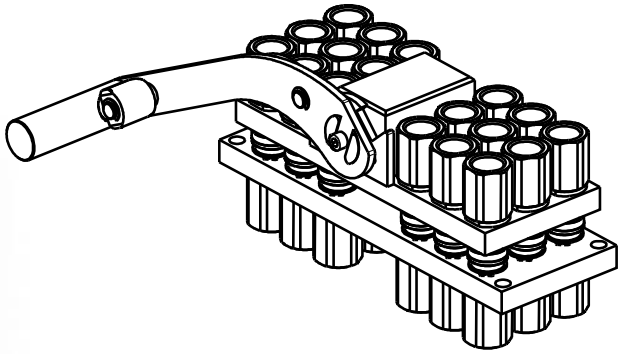
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GRE18 18A

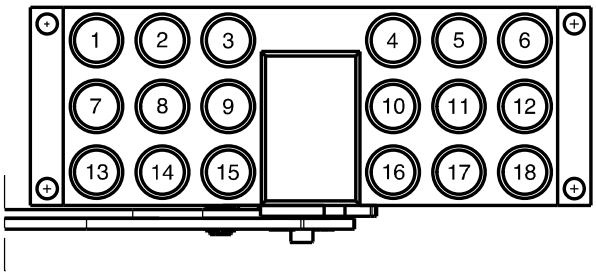
Previous description	Body size	CS9 (A) 3/8”	CS12 (B) 1/2”
GRE18-9		18	

DRAWING





CONFIGURATIONS



Possible configurations	
Pos	Coupling size
ALL	CS9

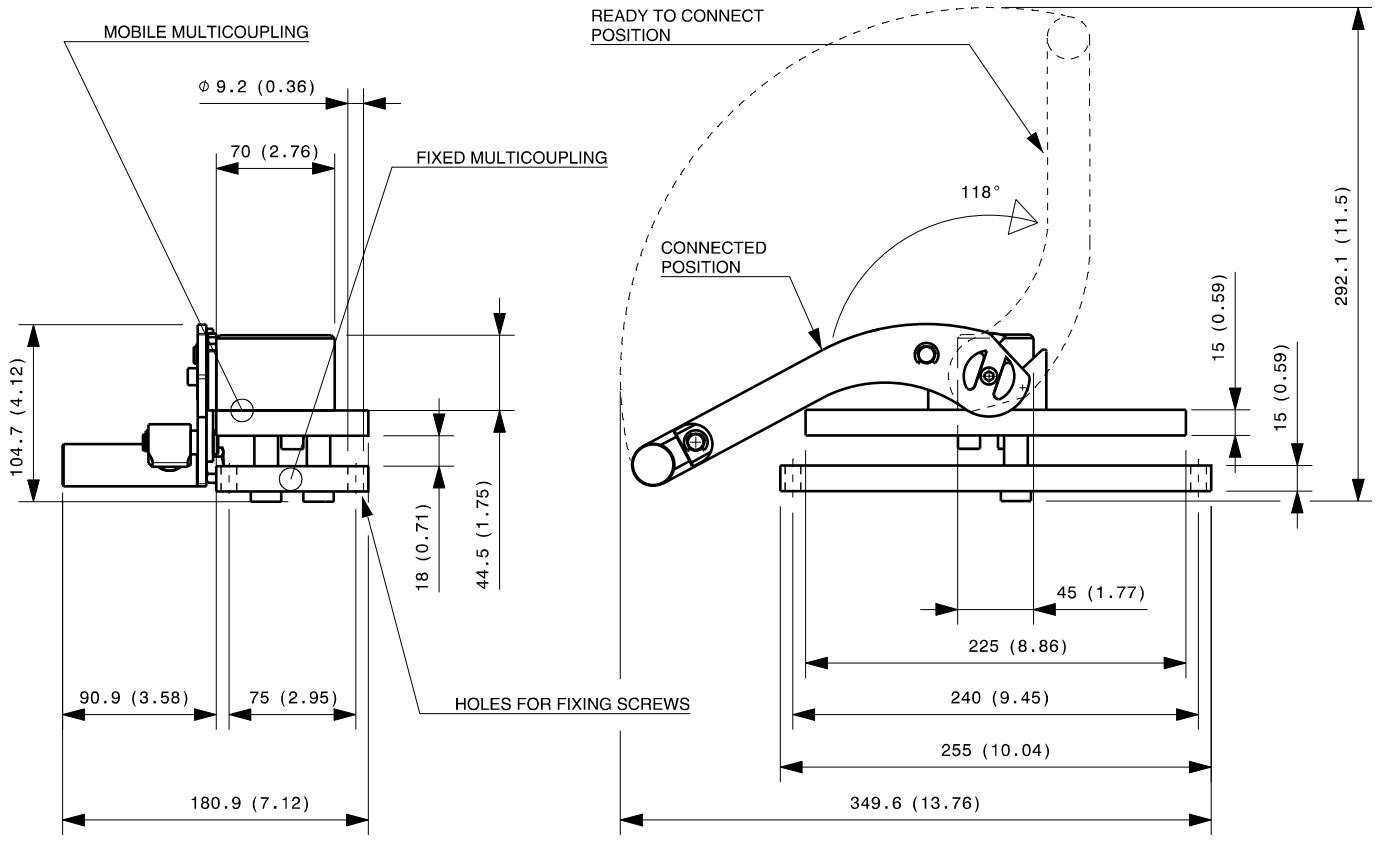
MultiCoupling (couplings included)		
Code	Name	Description
870020022	MULTI COMPLETE GRE18 18A	18 CS9 3/8 BSP
870020120	MULTI FIX GRE18 18A	18 CS9 3/8 NPT
870020220	MULTI MOBILE GRE18 18A	18 CS9 3/8 NPT

MultiCoupling spare parts (couplings not included)	
Code	Name
806000022	MULTI FIX EMPTY GRE18 18A
806000023	MULTI MOBILE EMPTY GRE18 18A
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701078	SPARE KIT LEVER GROUP GRE 200x95

Custom configurations available upon request

Fixed and mobile multicoupling

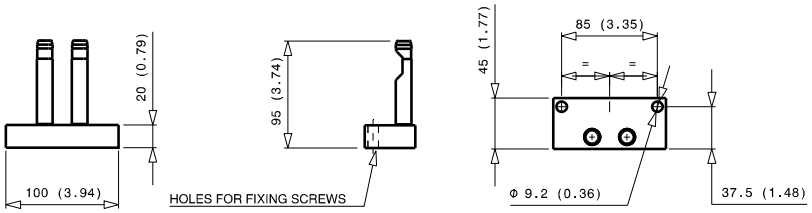
0,9 Kg and 1,8 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



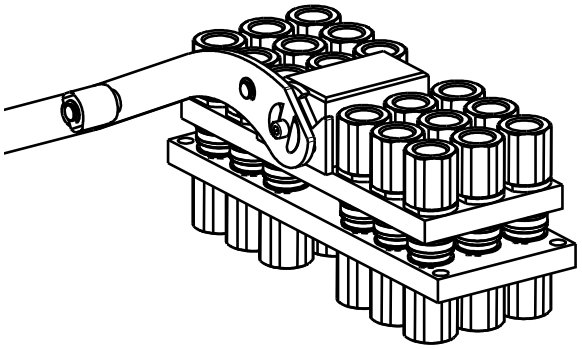
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GRE18 18B

Previous description	Body size	CS9 (A) 3/8”	CS12 (B) 1/2”
GRE18-12			18

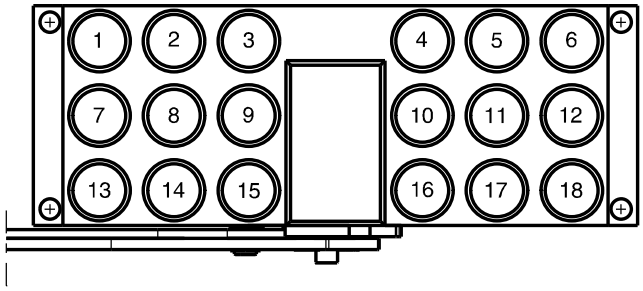
DRAWING





CONFIGURATIONS

Possible configurations	
Pos	Coupling size
ALL	CS12



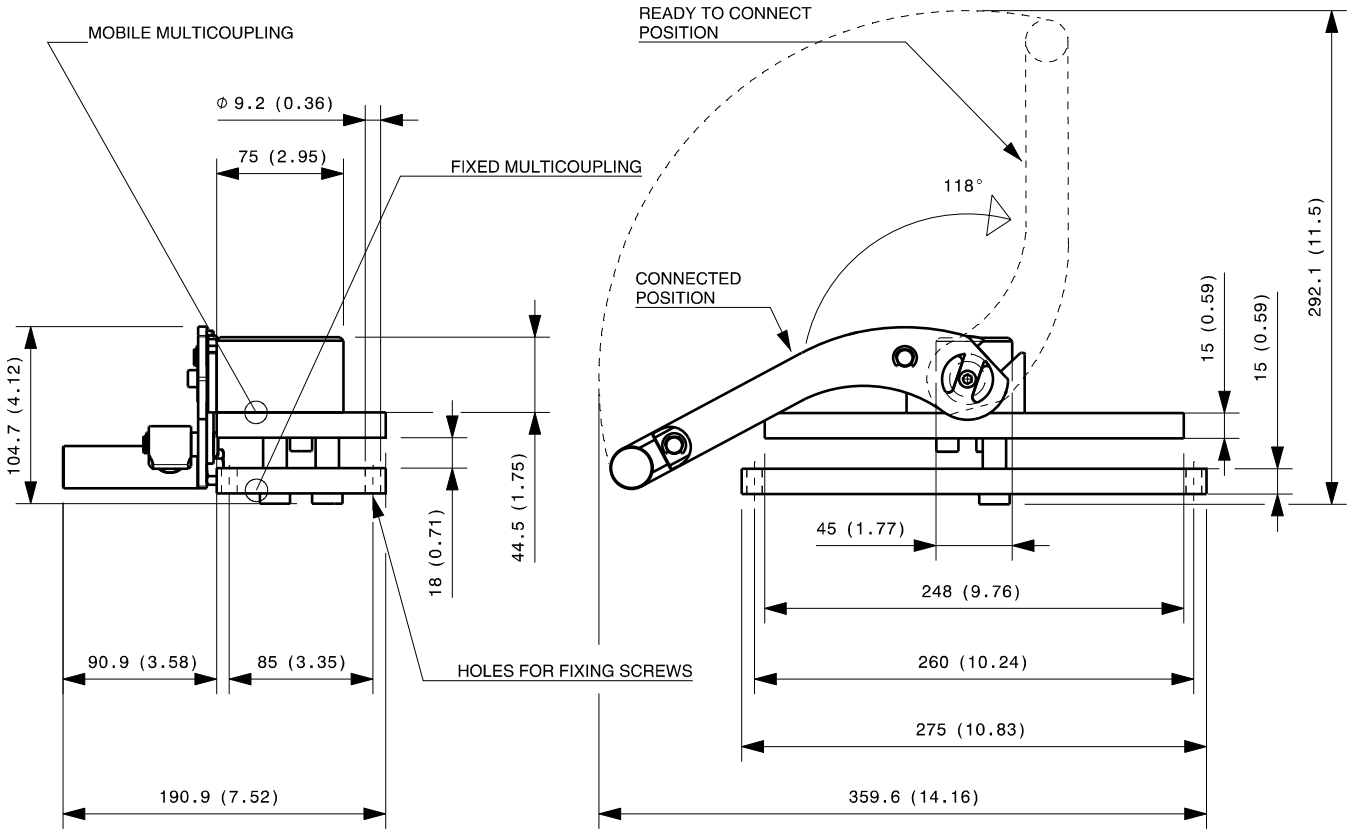
MultiCoupling (couplings included)		
Code	Name	Description
870020121	MULTI FIX GRE18 18B	18 CS12 1/2 BSP
870020221	MULTI MOBILE GRE18 18B	18 CS12 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000028	MULTI FIX EMPTY GRE18 18B
806000029	MULTI MOBILE EMPTY GRE18 18B
815606033	PARKING STATION MOBILE MULTICOUPLING GRE 100x45
815701078	SPARE KIT LEVER GROUP GRE 200x95

Custom configurations available upon request

Fixed and mobile multicoupling

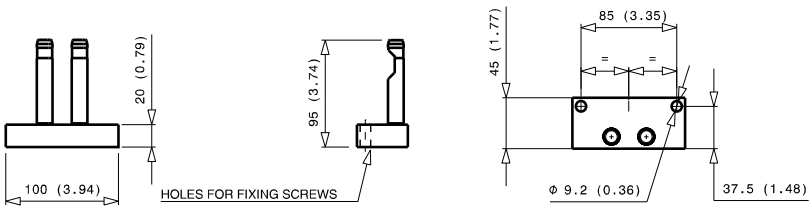
1 Kg and 2 Kg



Dimensions in millimeters (inch)

Parking station for mobile multicoupling

0,6 Kg



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