



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

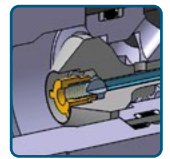
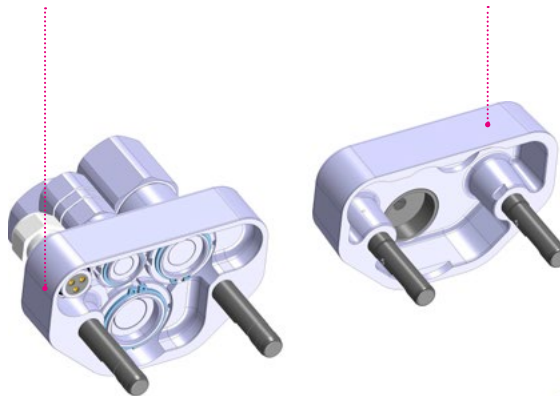
It is called "fixed" because is normally installed on the machine, thanks to the bolting holes to assemble the body on the frame of the Customer equipment. Fixed multiconnection is normally supplied with male couplings installed

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.

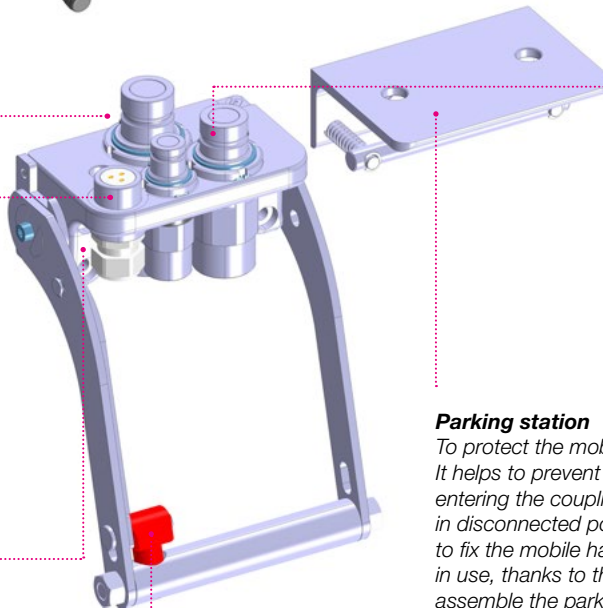
Cover for fixed multiconnection

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

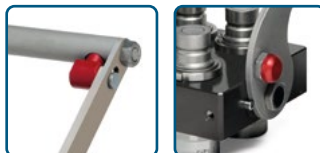


Parking station

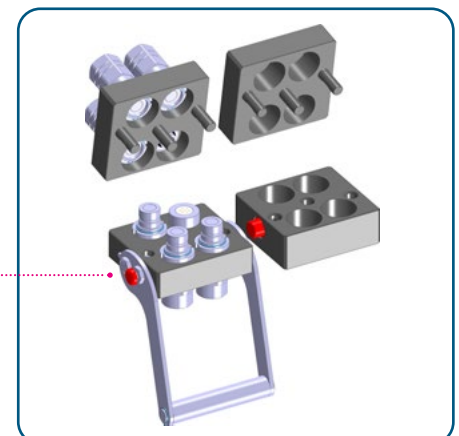
To protect the mobile half when disconnected. It helps to prevent dirt, pollutants & contamination entering the couplings of mobile multiconnection in disconnected position. In addition to that, it helps to fix the mobile half with his hose bundle when not in use, thanks to the fixing holes making possible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

Levers & Locking

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



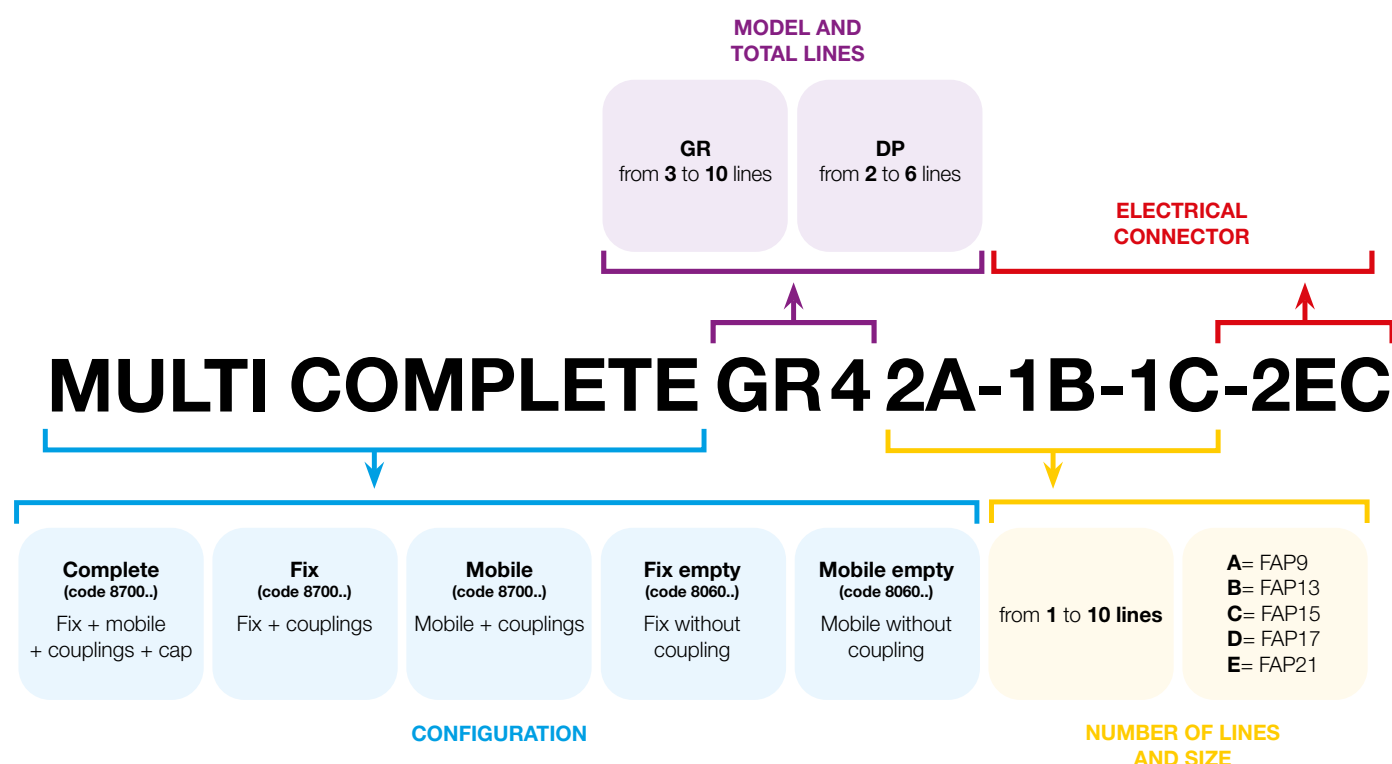
Same glossary for DP



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

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	D					4		GR7ACZN	112
			3	HP								
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.

Step A

Define the type of multicoupling you need

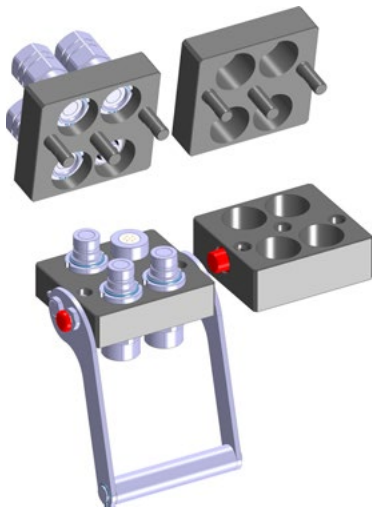
Step B

Choose configuration of the multicoupling

Step C

Set up each line

A. DEFINE THE TYPE OF MULTICOUPLING YOU NEED



DP

Features

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



GR

Features

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

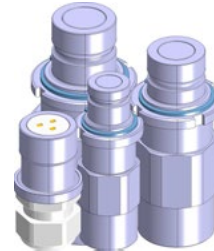
B. CHOOSE CONFIGURATION OF THE MULTICOUPLING



1 Dimension your couplings and EC

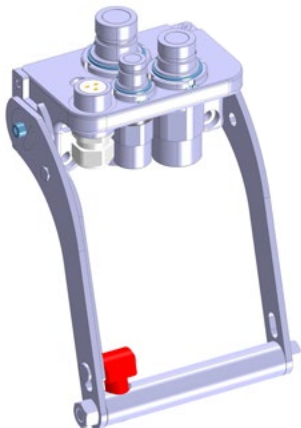
Coupling size choice is based on:

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



2 Define your configuration = List your couplings & EC

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

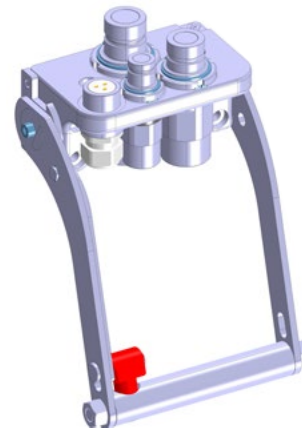


3 Choose the multicoupling for your configuration

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.

C. SETUP EACH LINE

Hydraulic oil

Connectable under pressure

Medium pressure

FAP-ZN*



Hydraulic oil

Connectable under pressure

High pressure

FAP-HP



Water-Glycol

Not connectable under pressure

Low pressure

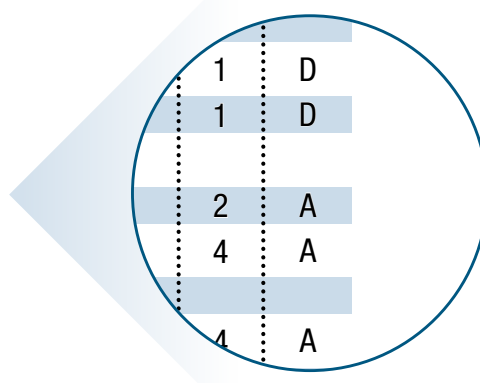
FAQ



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

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

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



Technical features and options



Interchange

Stucchi internal specification



Available threads

BSP NPT SAE



Mechanical connection

Internal cams and locking pins



Valving style

Flat Face



Connection/disconnection system

Rotating the lever after disengage the locking system



Operating pressure

Up to 350 bar/5000 psi



Construction material and surface treatment

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



Flow rate

Up to 378 l/min - 100 gpm



Nominal diameter available

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



Temperature

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



Connection under pressure

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

Application



Agriculture



Oil&Gas



Industry



High Pressure



Cooling



Refrigeration



Earth Moving



Vehicles



Hydraulic Equipment



Chemical & Food Industry

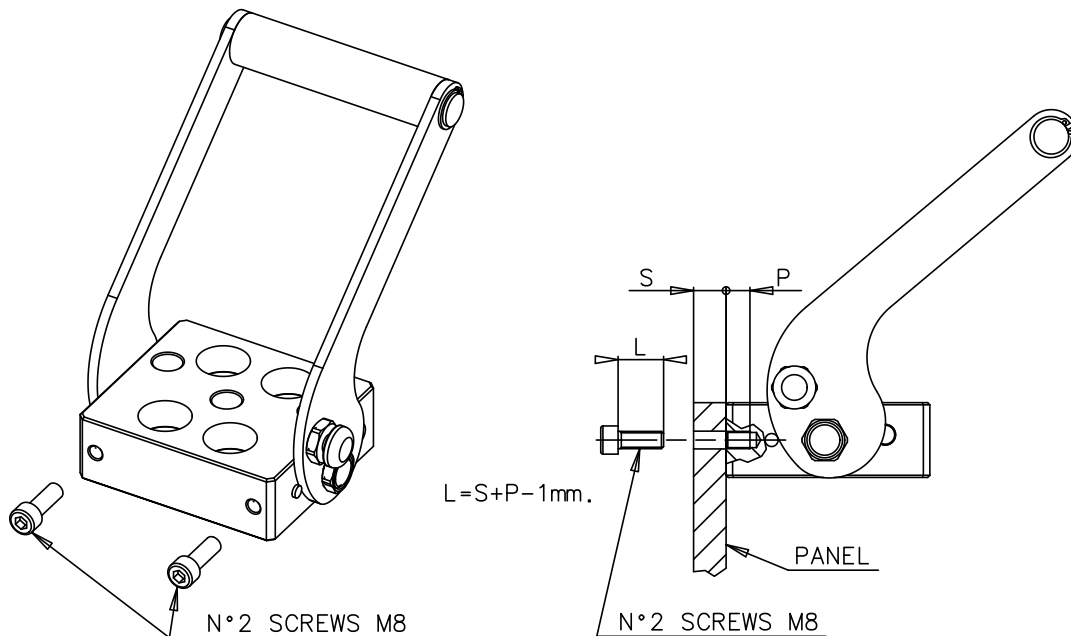
Benefits

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

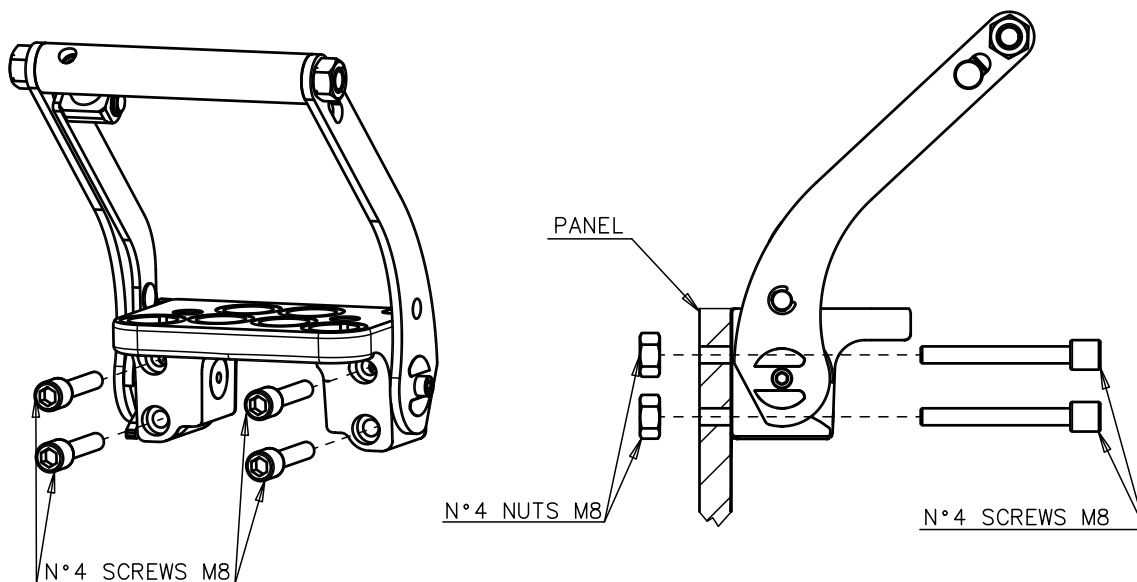
Installation

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

DP



GR



DP - GR: installation

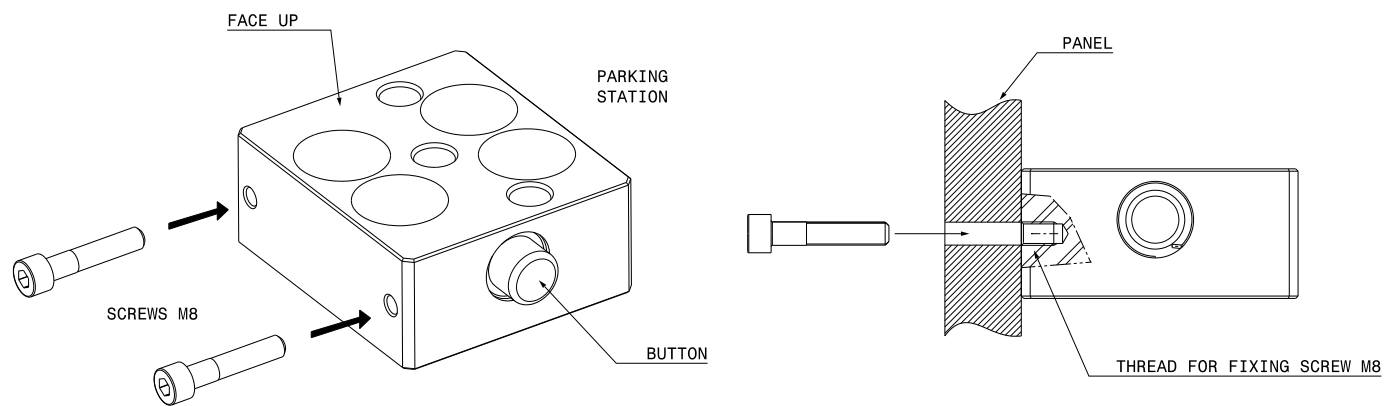
To install the parking station

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.

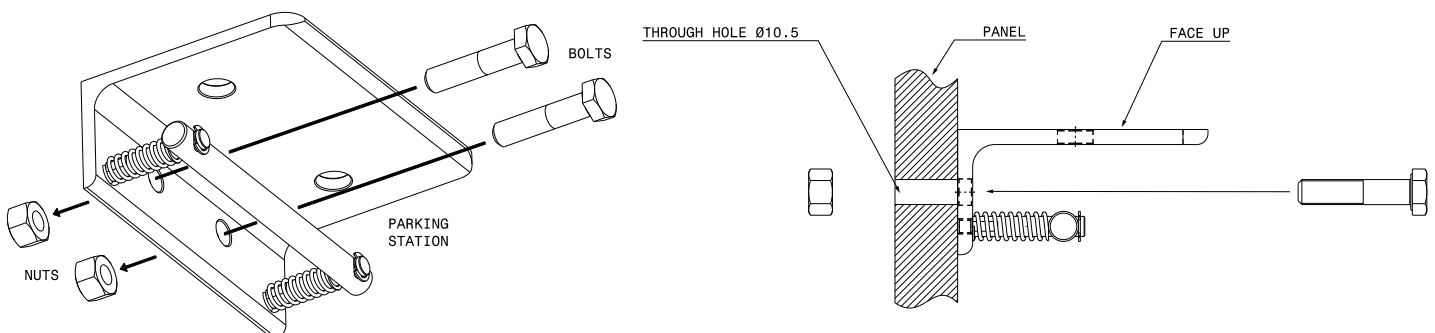
Fix the parking station body on the machine or the frame of the attachment using fixing screws as indicated in the drawing of the corresponding parking station.

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

DP

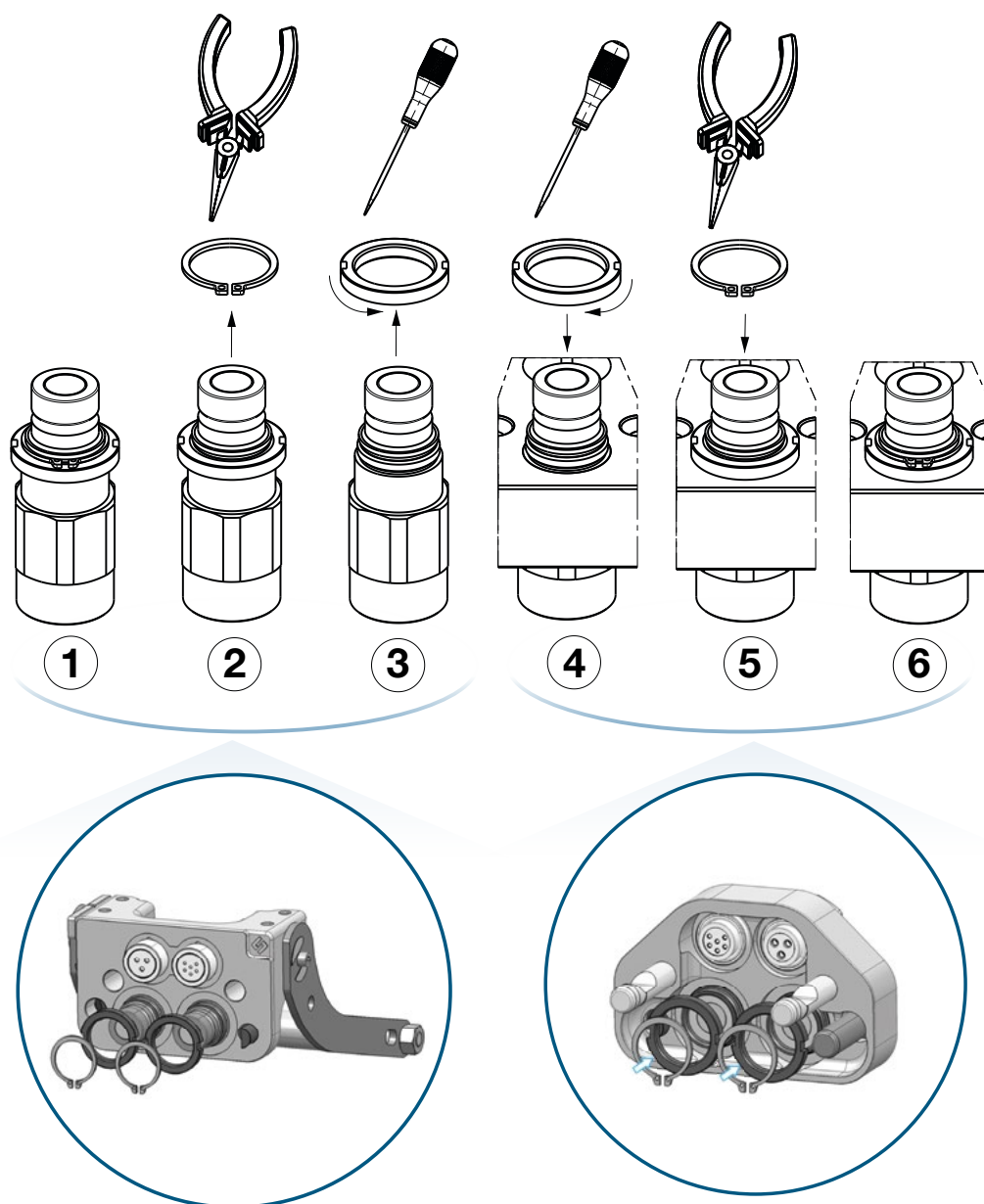


GR



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.



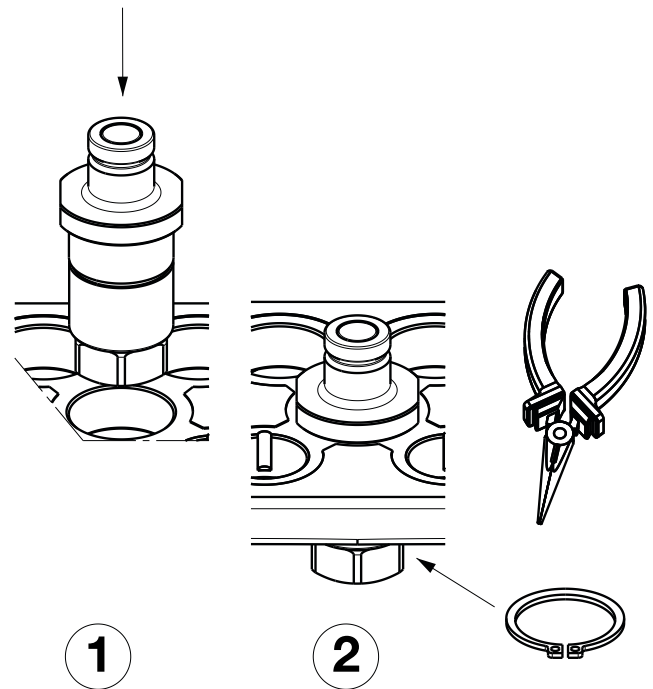
WARNING

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.



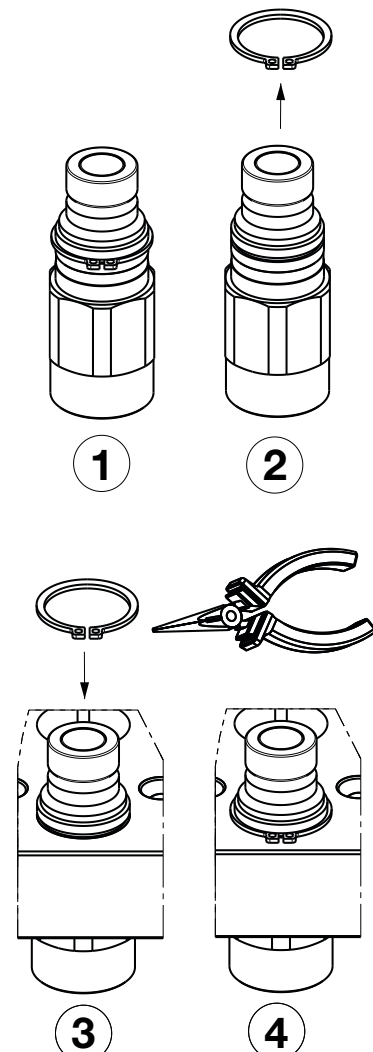
FAP-HP: How to install

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



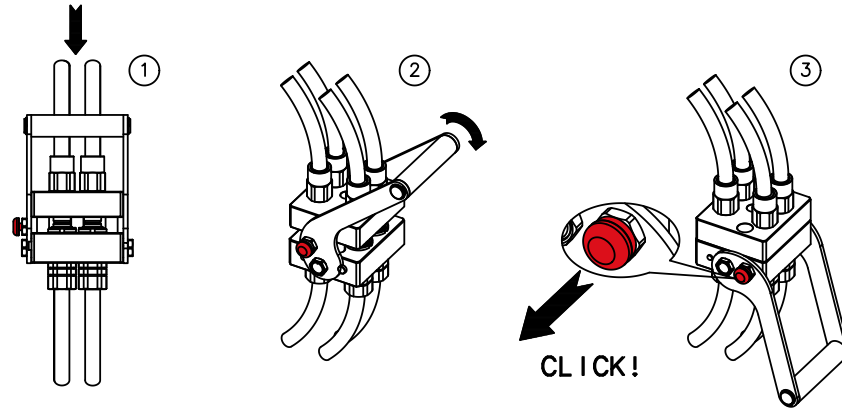
FAQ: How to install

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



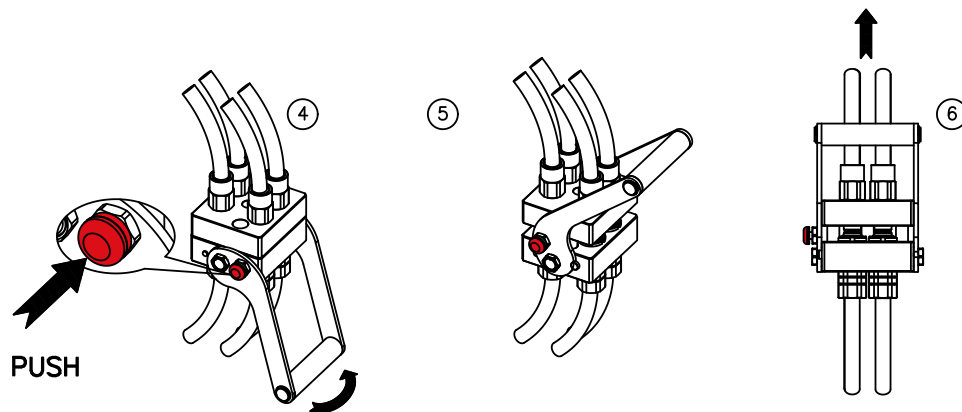
To connect

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



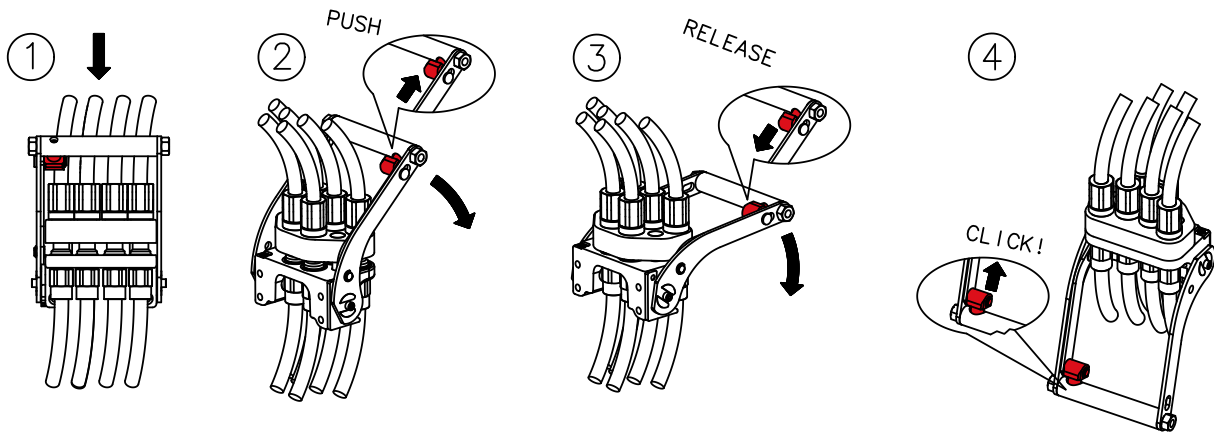
To disconnect

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



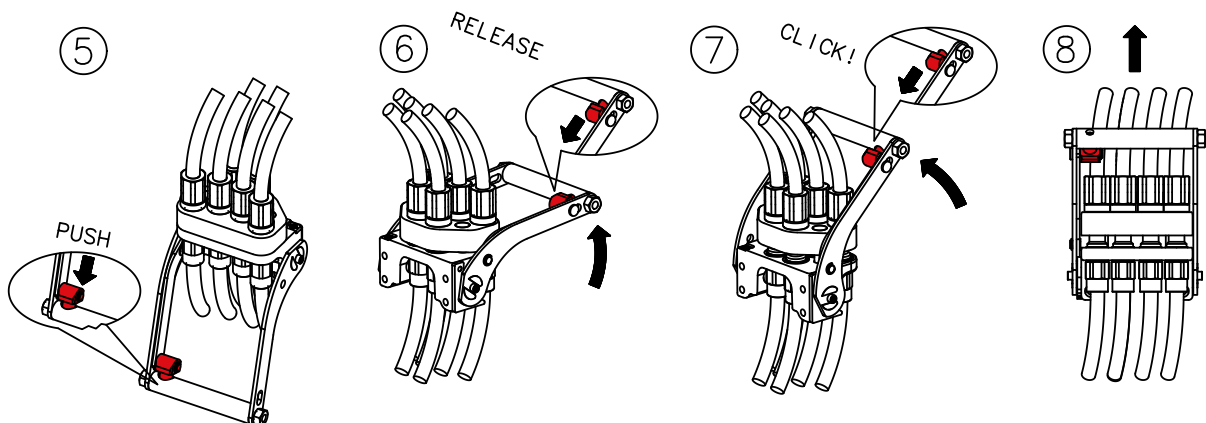
To connect

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



To disconnect

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



Resistance

All Stucchi multicouplings have been tested at their maximum resistance by impulse pressure test (for 200.000 cycles in according with ISO 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.

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

F = Force applied to multicoupling (N)

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

S = Hydrostatic pushing area coupled cm²

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

Coupling size	Hydrostatic pushing area coupled	Maximum operating pressure coupled for FAP-ZN couplings
FAP-ZN9 - 3/8	S3/8= 1,226 cm²	35 Mpa (350 bar)
FAP-ZN13 - 1/2	S1/2= 1,893 cm²	33 Mpa (330 bar)
FAP-ZN15 - 5/8	S5/8= 2,404 cm²	33 Mpa (330 bar)
FAP-ZN17 - 3/4	S3/4= 3,298 cm²	33 Mpa (330 bar)
FAP-ZN21 - 1	S1 = 4,335 cm²	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:

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

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

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

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

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

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

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

! WARNING

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

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

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

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

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

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

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

In case of doubt please contact Stucchi Technical Support.

It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on Stucchi website (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.

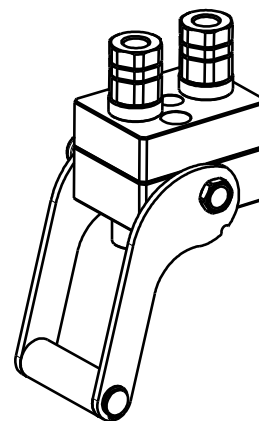
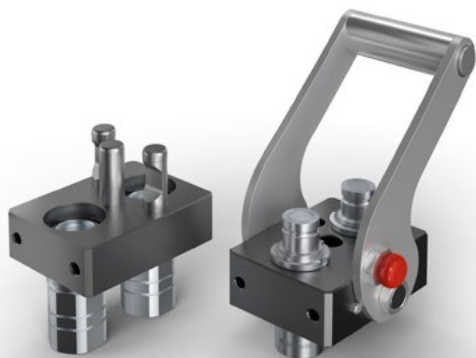
Do not use GR&DP series multiconnection for very high temperature applications.

DP2 2A-1EC

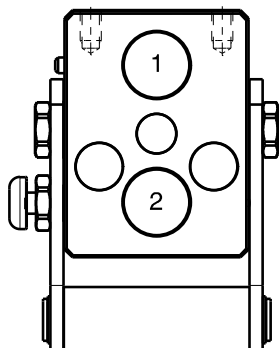


Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8"	1/2"	5/8"	3/4"	1"
DP2-9ZN	8000 N	2 A				

DRAWING



CONFIGURATIONS



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

MultiCoupling (couplings included)		
Code	Name	Description
870007015	MULTI COMPLETE DP2 2A	2 FAP9A 1/2 BSP - CAP
870007016	MULTI COMPLETE DP2 2A	2 FAP9A 3/8 BSP - CAP
870007115	MULTI FIX DP2 2A	2 FAP9A 1/2 BSP
870007116	MULTI FIX DP2 2A	2 FAP9A 3/8 BSP
870007215	MULTI MOBILE DP2 2A	2 FAP9A 1/2 BSP
870007216	MULTI MOBILE DP2 2A	2 FAP9A 3/8 BSP

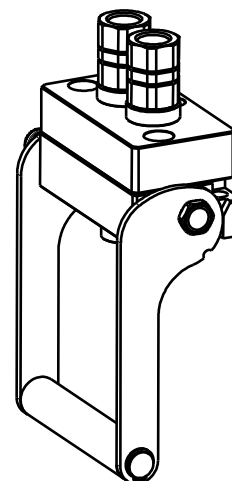
MultiCoupling spare parts (couplings not included)	
Code	Name
806000344	MULTI FIX EMPTY DP2 2A-1EC
806000345	MULTI MOBILE EMPTY DP2 2A-1EC
815606266	CAP FIX MULTICOUPLING DP 94x70
815606267	PARKING STATION MOBILE MULTICOUPLING DP 94x70
815701083	SPARE KIT LEVER GROUP DP 130x87

DP2 2A-2EC V04

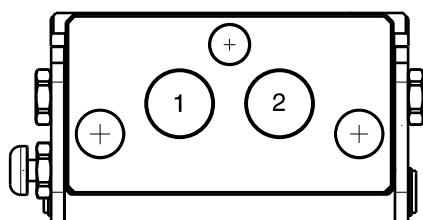


Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8"	1/2"	5/8"	3/4"	1"
DP2-9L	8000 N	2 A				

DRAWING



CONFIGURATIONS



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

MultiCoupling (couplings included)		
Code	Name	Description
870008022	MULTI COMPLETE DP2 2A V04*	2 FAP9A 1/2 BSP - CAP
870008122	MULTI FIX DP2 2A V04*	2 FAP9A 1/2 BSP
870008222	MULTI MOBILE DP2 2A V04*	2 FAP9A 1/2 BSP

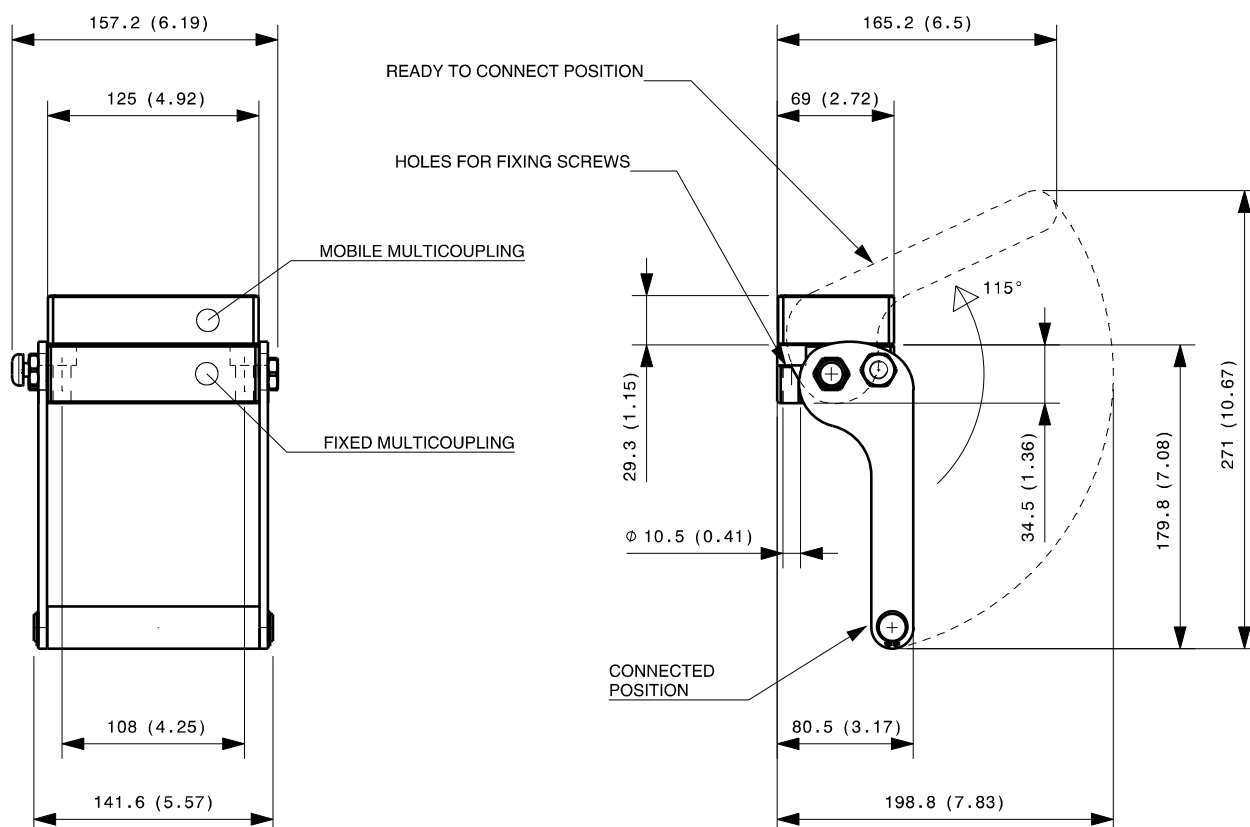
* **V04** = it differs from DP2 2A standard because it is longitudinal and has a different angle lever

MultiCoupling spare parts (couplings not included)	
Code	Name
806000410	MULTI FIX EMPTY DP2 2A-2EC V04*
806000411	MULTI MOBILE EMPTY DP2 2A-2EC V04*
815606310	CAP FIX MULTICOUPLING DP 125x69
815606311	PARKING STATION MOBILE MULTICOUPLING DP 125x69
815701215	SPARE KIT LEVER GROUP DP 150x142

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

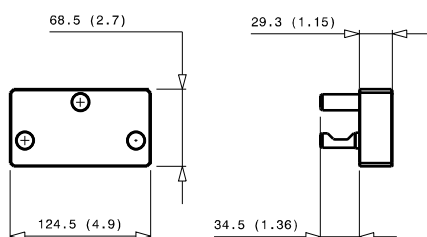
Fixed and mobile multicoupling

1,7 Kg and 0,7 Kg



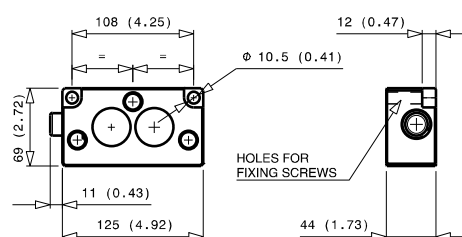
Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,7 Kg



Parking station for mobile multicoupling

0,9 Kg

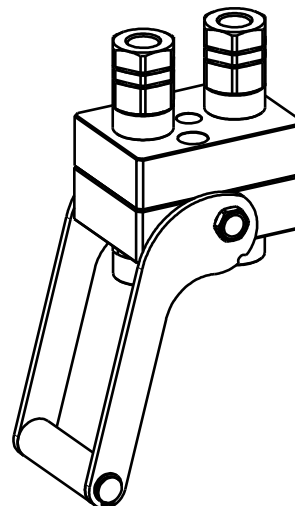
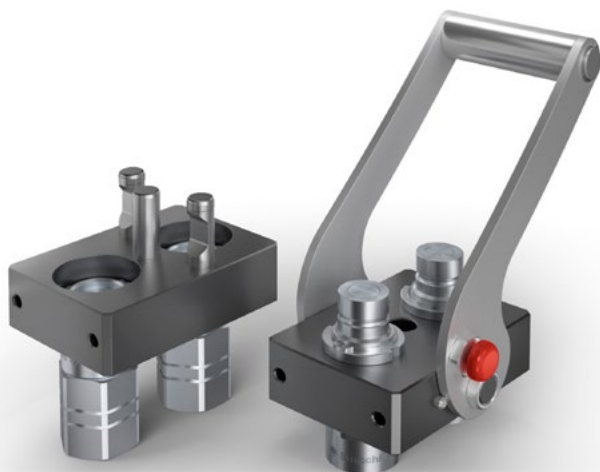


DP2 2B-1EC

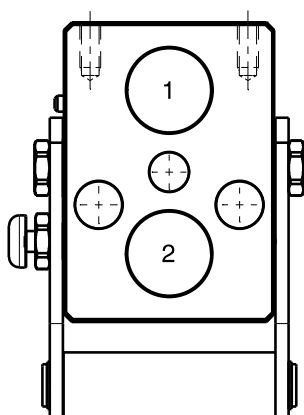


Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8"	1/2"	5/8"	3/4"	1"
DP2-13ZN	12000 N		2			

DRAWING



CONFIGURATIONS



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

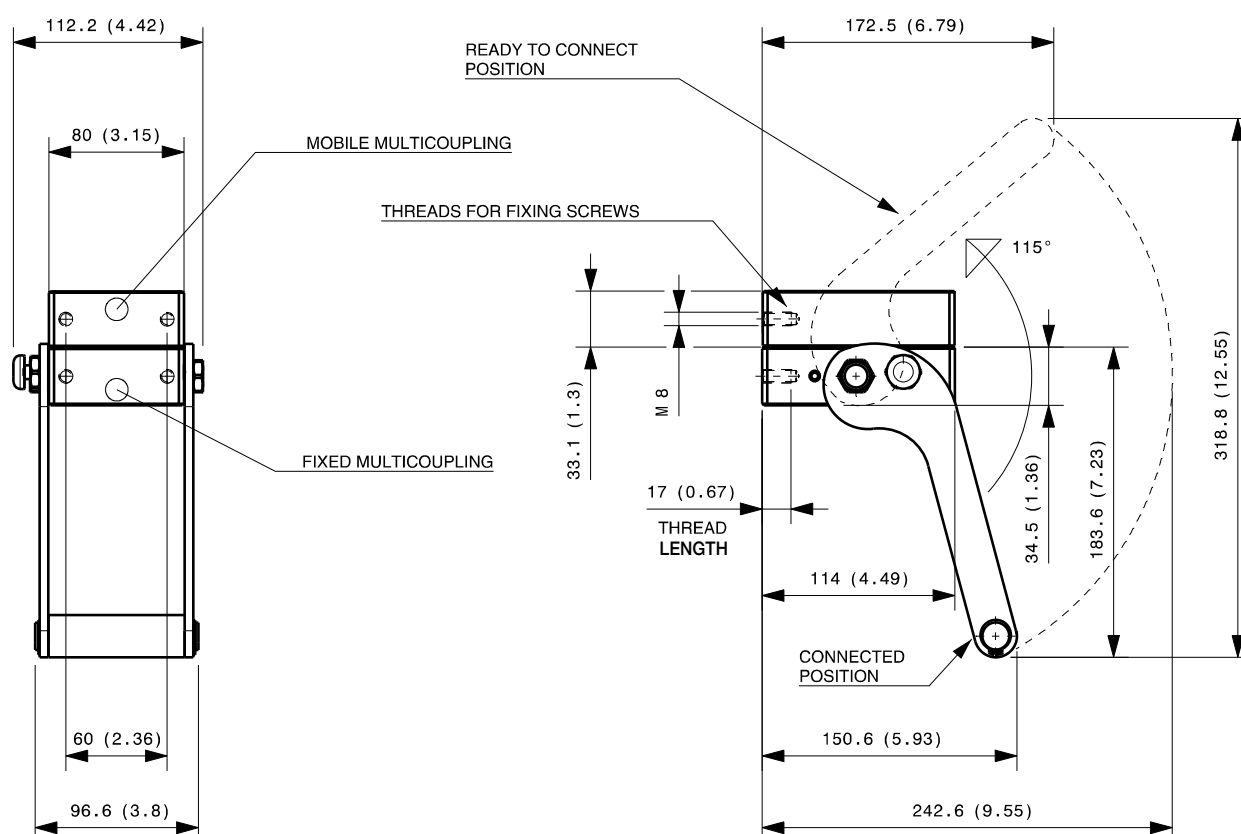
MultiCoupling (couplings included)		
Code	Name	Description
870008016	MULTI COMPLETE DP2 2B	2 FAP13 3/4 BSP - CAP
870008019	MULTI COMPLETE DP2 2B	2 FAP13 1/2 BSP - CAP
870008032	MULTI COMPLETE DP2 2B	2 FAP13 1/2 NPT - CAP
870008119	MULTI FIX DP2 2B	2 FAP13 1/2 BSP
870008135	MULTI FIX DP2 2B	2 FAQ13E 1/2 BSP
870008219	MULTI MOBILE DP2 2B	2 FAP13 1/2 BSP
870008216	MULTI MOBILE DP2 2B	2 FAP13 3/4 BSP
870008235	MULTI MOBILE DP2 2B	2 FAQ13E 1/2 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000346	MULTI FIX EMPTY DP2 2B-1EC
806000347	MULTI MOBILE EMPTY DP2 2B-1EC
815606270	CAP FIX MULTICOUPLING DP 114x80
815606271	PARKING STATION MOBILE MULTICOUPLING DP 114x80
815701082	SPARE KIT LEVER GROUP DP 170x97

Custom configurations
available upon request

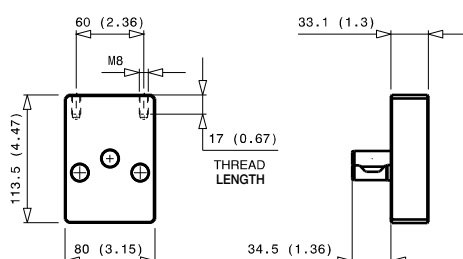
Fixed and mobile multicoupling

1,6 Kg and 0,8 Kg

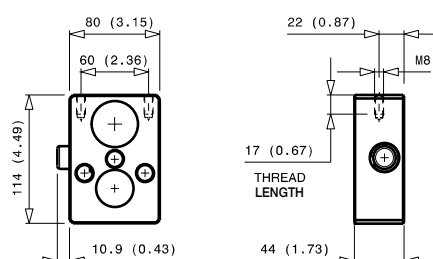


Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,8 Kg



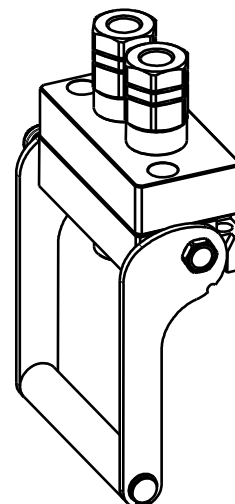
Parking station for mobile multicoupling 0,8 Kg



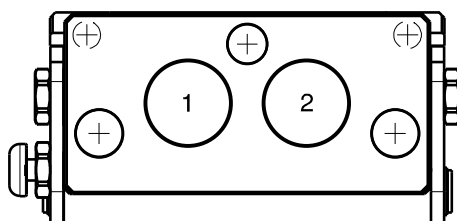
DP2 2B-2EC V04

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

DRAWING



CONFIGURATIONS



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

MultiCoupling (couplings included)		
Code	Name	Description
870008012	MULTI COMPLETE DP2 2B V04*	2 FAP13 1/2 BSP - CAP
870008112	MULTI FIX DP2 2B V04*	2 FAP13 1/2 BSP
870008121	MULTI FIX DP2 2B V05**	2 FAP13 3/4 BSP
870008212	MULTI MOBILE DP2 2B V04*	2 FAP13 1/2 BSP
870008221	MULTI MOBILE DP2 2B V04*	2 FAP13 3/4 BSP

* **V04** = it differs from DP2 2B standard because is longitudinal and has a different angle lever (compact version)

** **V05** = it differs from DP2 2B standard because is longitudinal

MultiCoupling spare parts (couplings not included)	
Code	Name
806000368	MULTI FIX EMPTY DP2 2B-2EC V04*
806000402	MULTI FIX EMPTY DP2 2B-2EC V05**
806000369	MULTI MOBILE EMPTY DP2 2B-2EC V04*
815606240	CAP FIX MULTICOUPLING DP 139x69
815606309	PARKING STATION MOBILE MULTICOUPLING DP 139x69
815701088	SPARE KIT LEVER GROUP DP 150x156

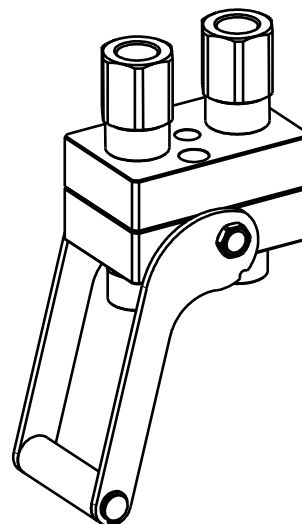
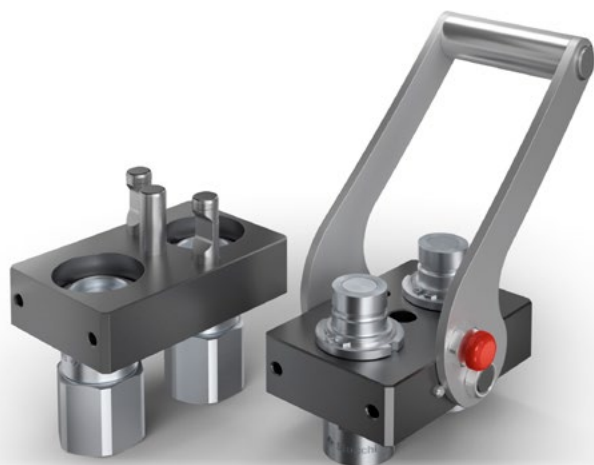
* **V04** = it differs from DP2 2B standard because is longitudinal and has a different angle lever (compact version)

** **V05** = it differs from DP2 2B standard because is longitudinal

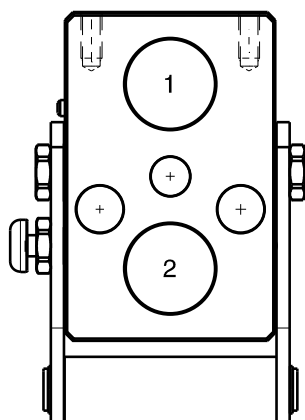
DP2 2C

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"
DP2-15	15500 N			2		

DRAWING



CONFIGURATIONS



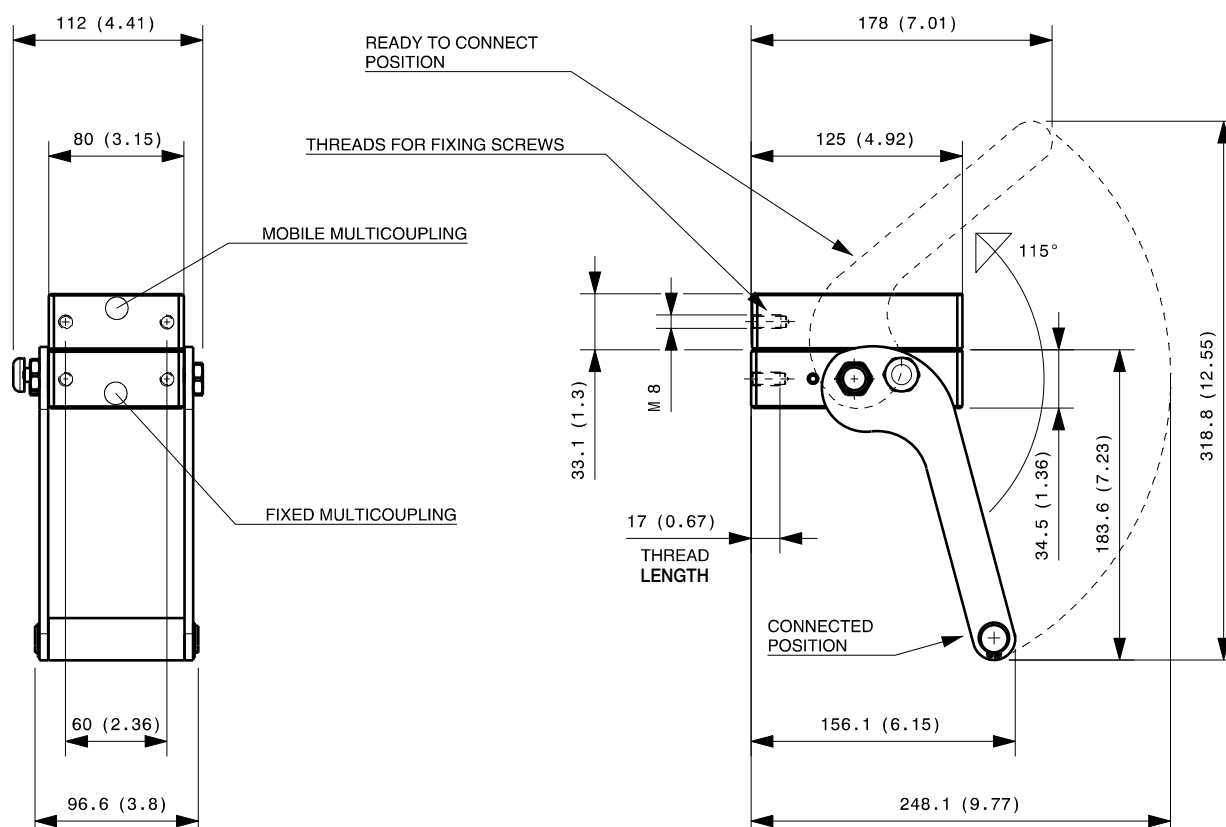
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP15ZN	-

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

MultiCoupling spare parts (couplings not included)	
Code	Name
806000308	MULTI FIX EMPTY DP2 2C
806000309	MULTI MOBILE EMPTY DP2 2C
815606238	CAP FIX MULTICOUPLING DP 125x80
815606239	PARKING STATION MOBILE MULTICOUPLING DP 125x80
815701082	SPARE KIT LEVER GROUP DP 170x97

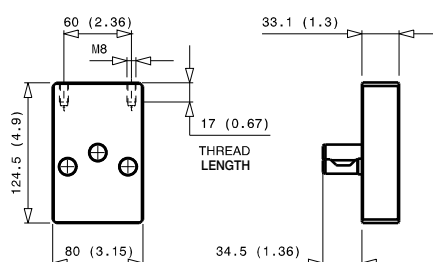
Fixed and mobile multicoupling

1,6 Kg and 0,8 Kg

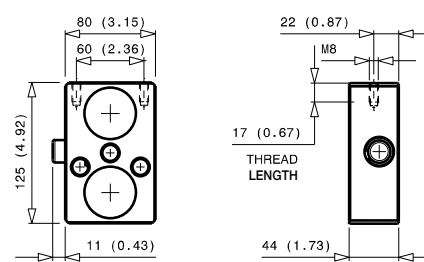


Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,8 Kg

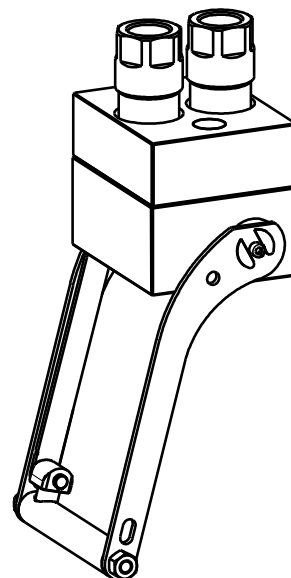


Parking station for mobile multicoupling 0,8 Kg

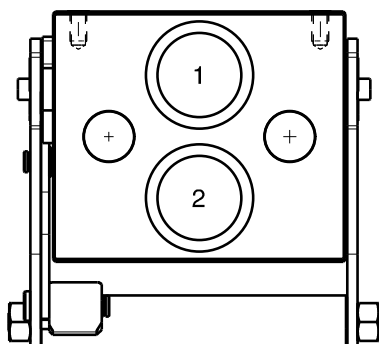


Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8"	1/2"	5/8"	3/4"	1"
DP2-17ZN	18000 N				2	

DRAWING



CONFIGURATIONS



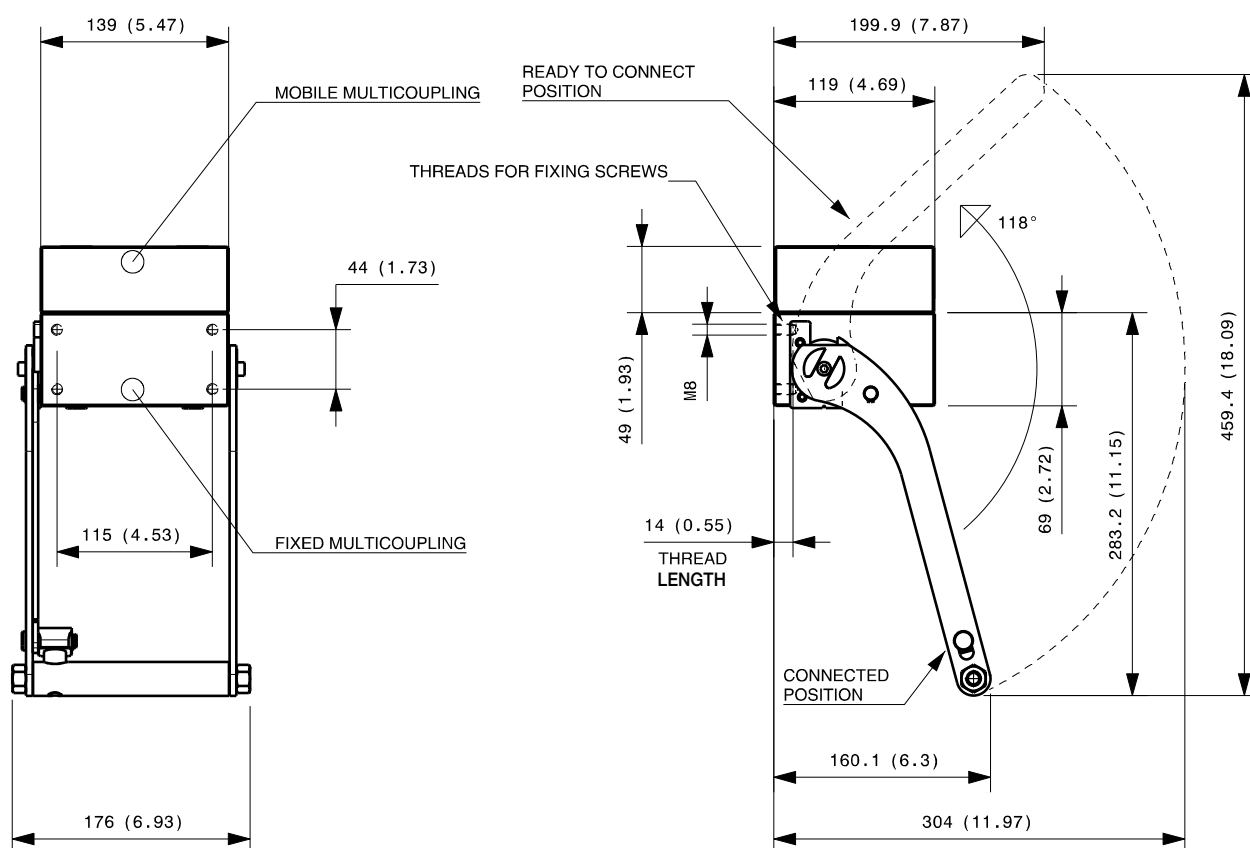
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP17ZN	-
2	FAP17ZN	-

MultiCoupling (couplings included)		
Code	Name	Description
870008029	MULTI COMPLETE DP2 2D	2 FAP17 3/4 BSP - CAP
870008017	MULTI COMPLETE DP2 2D	2 FAP17 1 BSP - CAP
870008013	MULTI COMPLETE DP2 2D	1 FAP17 3/4 NPT - 1 FAP17 1 NPT - CAP
870008113	MULTI FIX DP2 2D	2 FAP17 1 NPT
870008117	MULTI FIX DP2 2D	2 FAP17 1 BSP
870008124	MULTI FIX DP2 2D	1 FAP17 3/4 SAE - 1 FAP17 1 SAE
870008126	MULTI FIX DP2 2D	2 FAP17 3/4 SAE
870008129	MULTI FIX DP2 2D	2 FAP17 3/4 BSP
870008213	MULTI MOBILE DP2 2D	2 FAP17 1 NPT
870008217	MULTI MOBILE DP2 2D	2 FAP17 1 BSP
870008224	MULTI MOBILE DP2 2D	1 FAP17 3/4 SAE - 1 FAP17 1 SAE
870008226	MULTI MOBILE DP2 2D	2 FAP17 3/4 SAE
870008229	MULTI MOBILE DP2 2D	2 FAP17 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000348	MULTI FIX EMPTY DP2 2D
806000349	MULTI MOBILE EMPTY DP2 2D
815606272	CAP FIX MULTICOUPLING DP 139x118
815606273	PARKING STATION MOBILE MULTICOUPLING DP 139x120
815701084	SPARE KIT LEVER GROUP DP 250x176

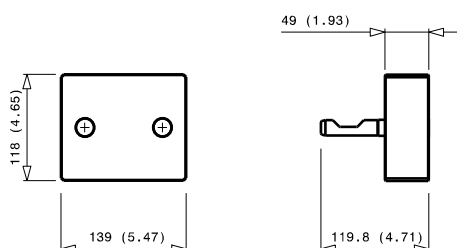
Fixed and mobile multicoupling

3,9 Kg and 2,1 Kg

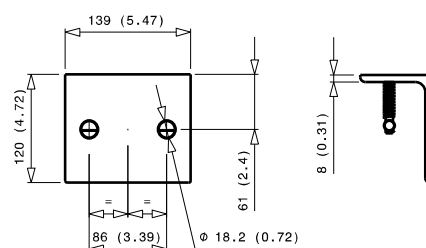


Dimensions in millimeters (inch)

Cap for fixed multicoupling 2,3 Kg



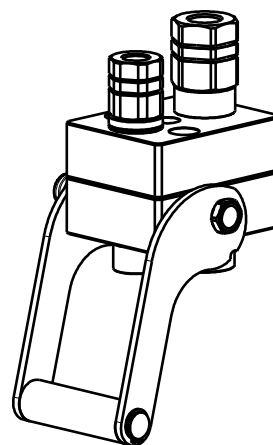
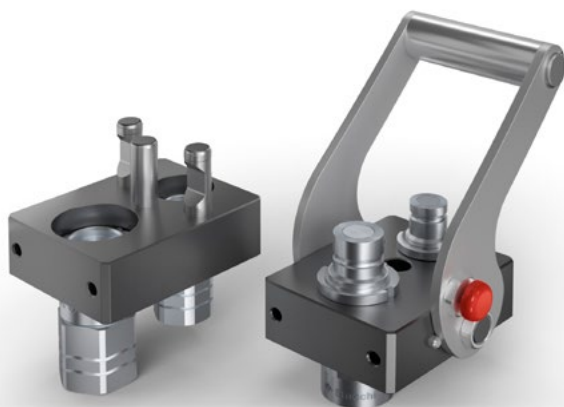
Parking station for mobile multicoupling 1,8 Kg



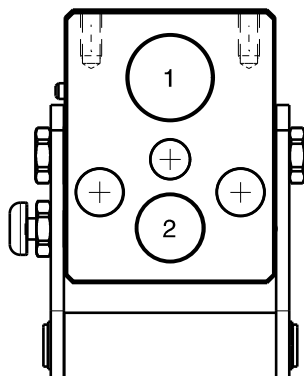
DP2 1A-1B

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

DRAWING



CONFIGURATIONS



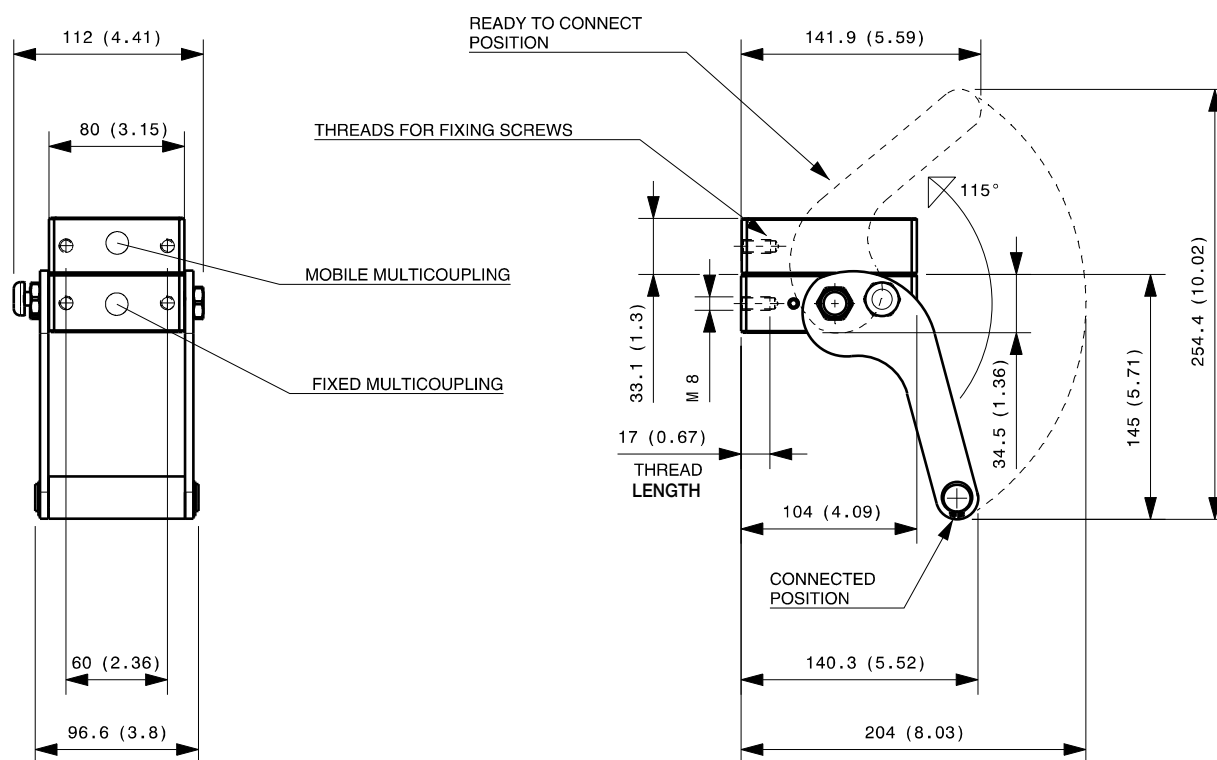
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13ZN	-
2	FAP9DZN	-

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

MultiCoupling spare parts (couplings not included)	
Code	Name
806000354	MULTI FIX EMPTY DP2 1A-1B
806000355	MULTI MOBILE EMPTY DP2 1A-1B
815606268	CAP FIX MULTICOUPLING DP 104x80
815606269	PARKING STATION MOBILE MULTICOUPLING DP 104x80
815701086	SPARE KIT LEVER GROUP DP 130x97

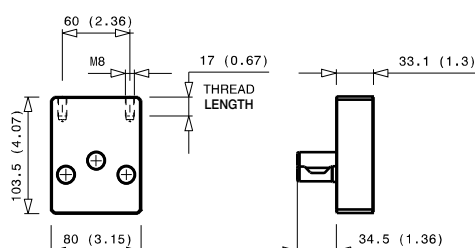
Fixed and mobile multicoupling

1,5 Kg and 0,8 Kg

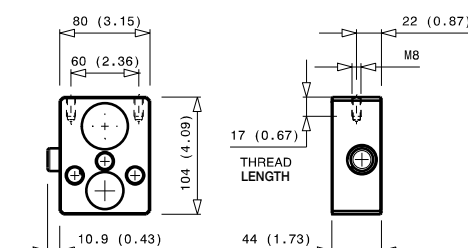


Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,8 Kg



Parking station for mobile multicoupling 0,8 Kg

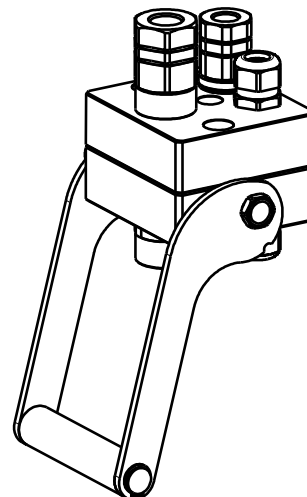


DP3 1A-1B-1EC

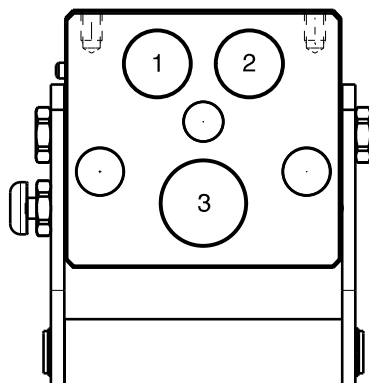


Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8"	1/2"	5/8"	3/4"	1"
DPT3ZN	10000 N	1 D	1			

DRAWING



CONFIGURATIONS



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

MultiCoupling (couplings included)		
Code	Name	Description
870009015	MULTI COMPLETE DP3 1A-1B-1EC	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1EC4 - CAP
870009115	MULTI FIX DP3 1A-1B-1EC	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1EC4
870009215	MULTI MOBILE DP3 1A-1B-1EC	1 FAP9D 3/8 BSP - 1 FAP13 1/2 BSP - 1EC4

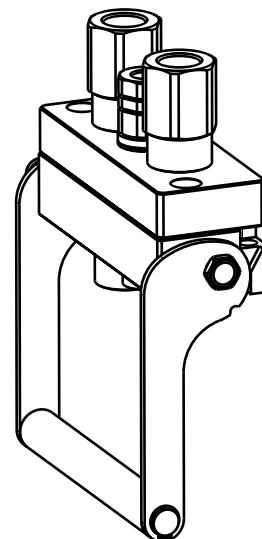
MultiCoupling spare parts (couplings not included)	
Code	Name
806000356	MULTI FIX EMPTY DP3 1A-1B-1EC
806000357	MULTI MOBILE EMPTY DP3 1A-1B-1EC
815606276	CAP FIX MULTICOUPLING DP 105x98
815606277	PARKING STATION MOBILE MULTICOUPLING DP 105x98
815701081	SPARE KIT LEVER GROUP DP 170x121

DP3 1A-2C-1EC V04

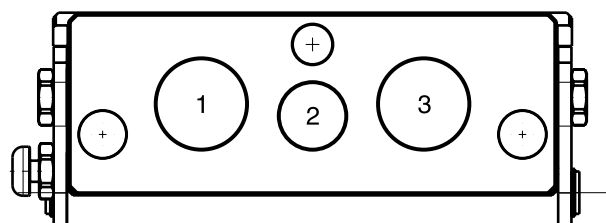


Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size	10000 N	1 3/8"	1 1/2"	5/8"	3/4"	1"
		1	D	2		

DRAWING



CONFIGURATIONS



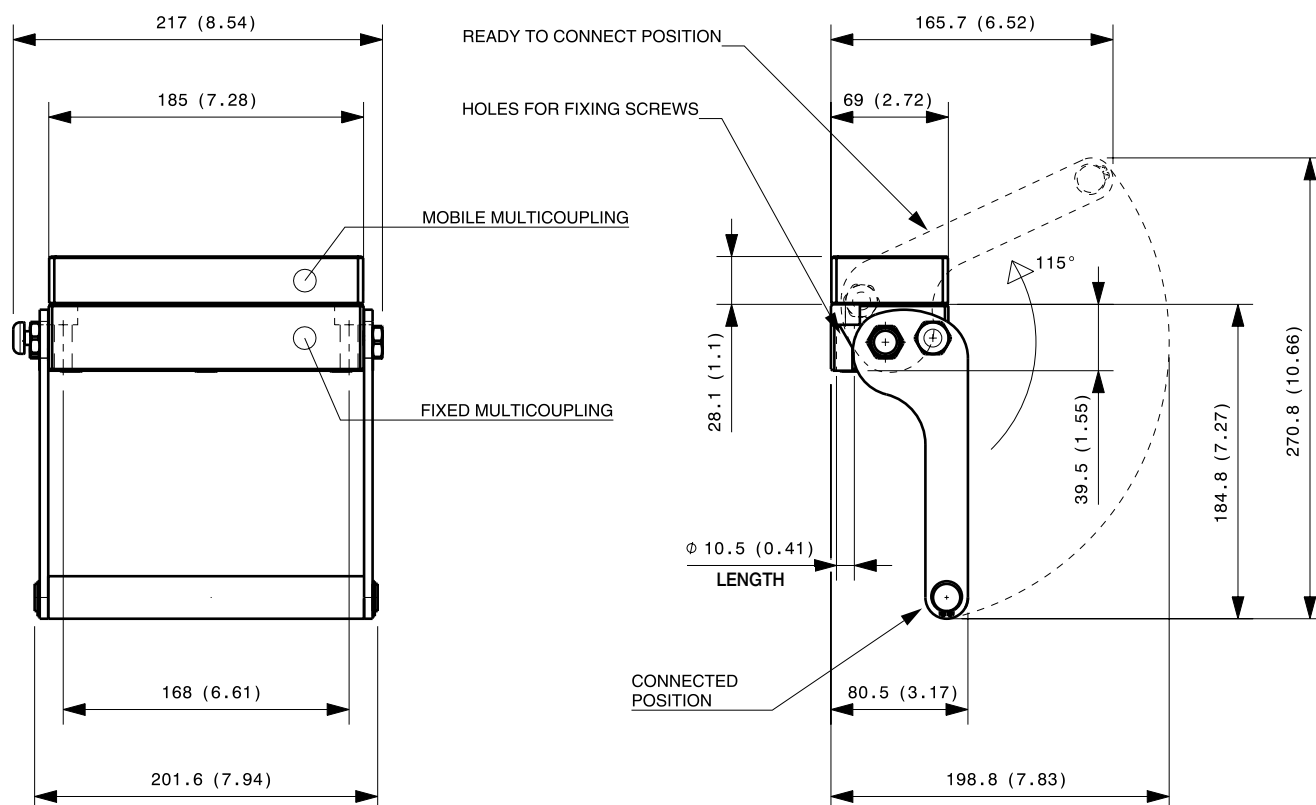
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15	-
2	FAP9-D	YES
3	FAP15	-

MultiCoupling (couplings included)		
Code	Name	Description
870008027	MULTI COMPLETE DP3 1A-2C V04	1 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP - CAP
870008127	MULTI FIX DP3 1A-2C V04	1 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP
870008130	MULTI FIX DP3 1A-2C V04	1 FAP9D 1/2 BSP - 2 FAP15 3/4 BSP
870008227	MULTI MOBILE DP3 1A-2C V04	1 FAP9D 3/8 BSP - 2 FAP15 3/4 BSP
870008230	MULTI MOBILE DP3 1A-2C V04	1 FAP9D 1/2 BSP - 2 FAP15 3/4 BSP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000416	MULTI FIX EMPTY DP3 1A-2C-1EC V04
806000417	MULTI MOBILE EMPTY DP3 1A-2C-1EC V04
815606314	CAP FIX MULTICOUPLING DP 185x69
815606315	PARKING STATION MOBILE MULTICOUPLING DP 185x69

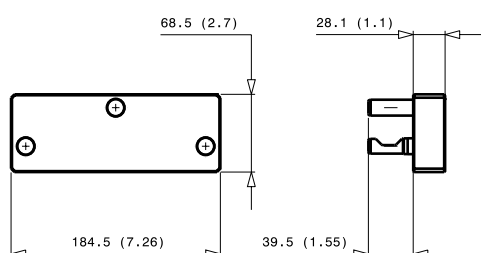
Fixed and mobile multicoupling

2,3 Kg and 0,9 Kg

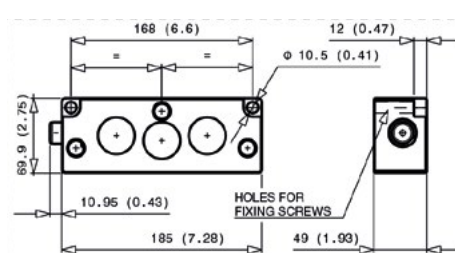


Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,9 Kg



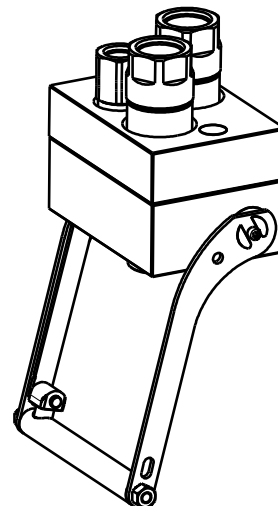
Parking station for mobile multicoupling 3,3 Kg



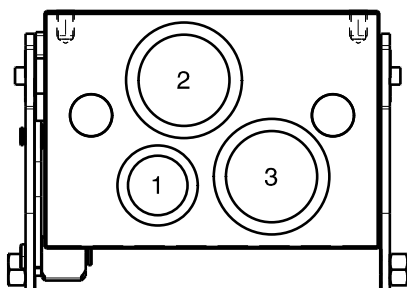
DP3 1C-2E

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"
DP3GE	23000 N			1		2

DRAWING



CONFIGURATIONS



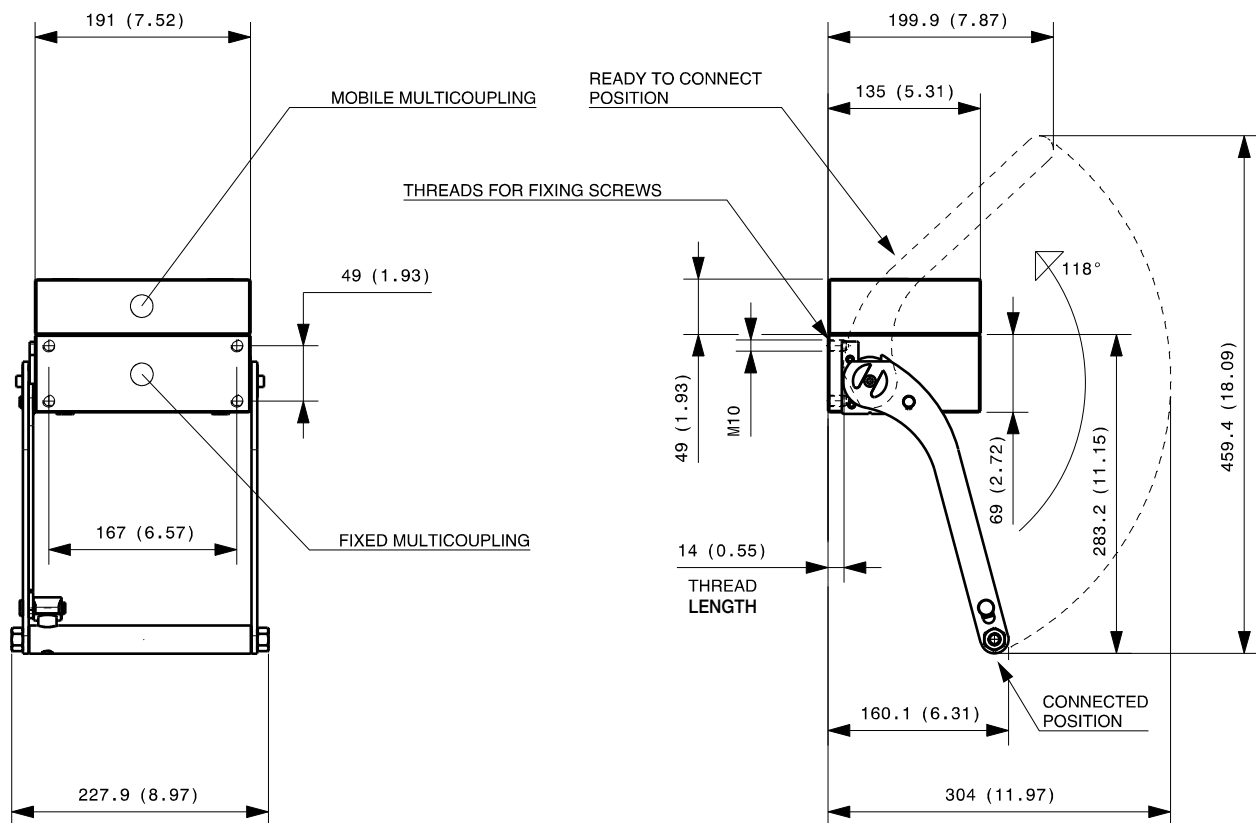
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP15ZN	-
2	FAP21ZN	-
3	FAP21ZN	-

MultiCoupling (couplings included)		
Code	Name	Description
870015056	MULTI COMPLETE DP3 1C-2E	1 FAP15 3/4 BSP - 2 FAP21 1 BSP - CAP
870015088	MULTI COMPLETE DP3 1C-2E	1 FAP15 3/4 SAE - 2 FAP21 1-1/4 SAE - CAP
870016064	MULTI COMPLETE DP3 2E	1 FAP21 1 NPT - 1 FAP21 1-1/4 NPT - CAP
870015188	MULTI FIX DP3 1C-2E	1 FAP15 3/4 SAE - 2 FAP21 1-1/4 SAE
870015288	MULTI MOBILE DP3 1C-2E	1 FAP15 3/4 SAE - 2 FAP21 1-1/4 SAE

MultiCoupling spare parts (couplings not included)	
Code	Name
806000392	MULTI FIX EMPTY DP3 1C-2E
806000393	MULTI MOBILE EMPTY DP3 1C-2E
815606300	CAP FIX MULTICOUPLING DP 191x135
815606301	PARKING STATION MOBILE MULTICOUPLING DP 190x140
815701089	SPARE KIT LEVER GROUP DP 250x228

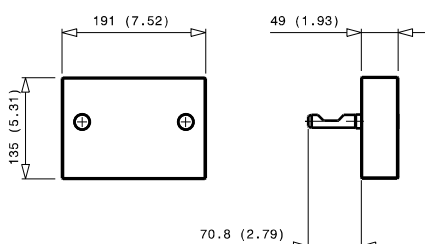
Fixed and mobile multicoupling

5,3 Kg and 2,8 Kg

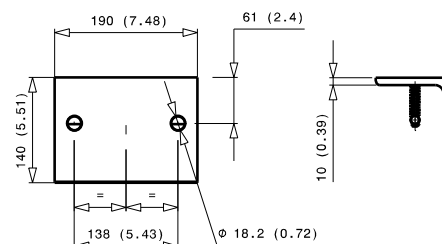


Dimensions in millimeters (inch)

Cap for fixed multicoupling 3,3 Kg



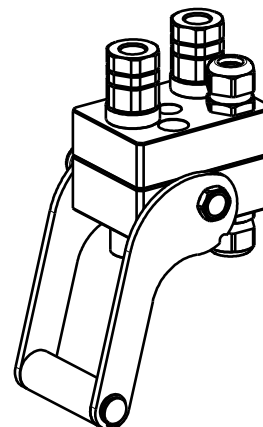
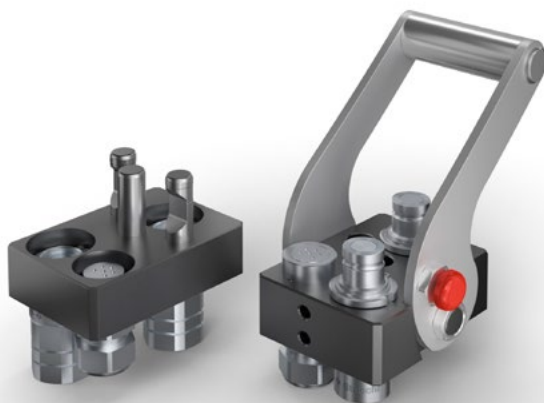
Parking station for mobile multicoupling 3,3 Kg



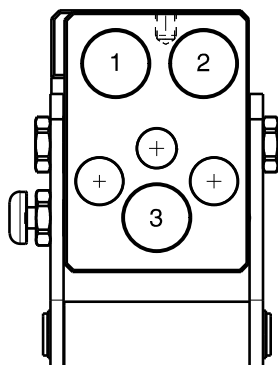
DP3 2A-1EC

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

DRAWING



CONFIGURATIONS



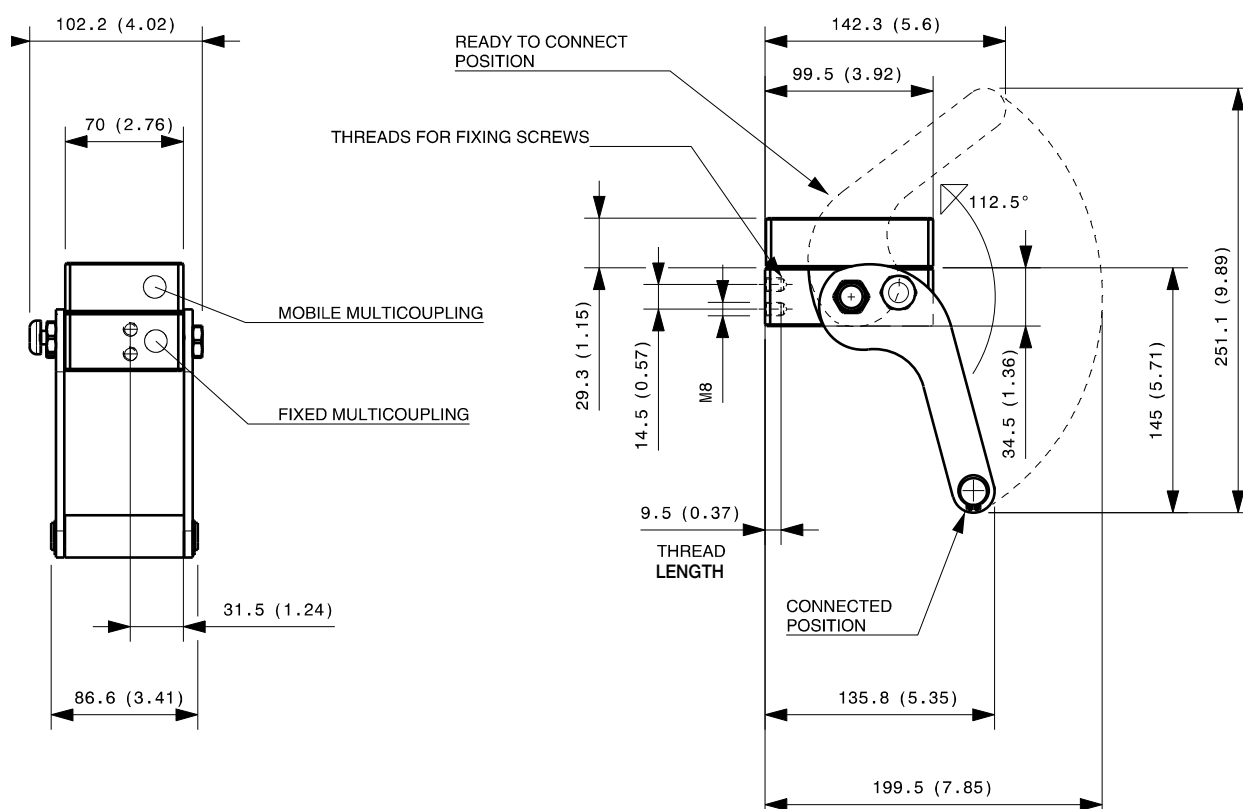
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP9AZN	-
2	-	YES
3	FAP9AZN	-

MultiCoupling (couplings included)		
Code	Name	Description
870009016	MULTI COMPLETE DP3 2A-1EC	2 FAP9A 3/8 BSP - 1EC6 - CAP
870009018	MULTI COMPLETE DP3 2A-1EC	2 FAP9A 3/8 BSP - 1EC7 - CAP
870009116	MULTI FIX DP3 2A-1EC	2 FAP9A 3/8 BSP - 1EC6
870009216	MULTI MOBILE DP3 2A-1EC	2 FAP9A 3/8 BSP - 1EC6

MultiCoupling spare parts (couplings not included)	
Code	Name
806000358	MULTI FIX EMPTY DP3 2A-1EC
806000359	MULTI MOBILE EMPTY DP3 2A-1EC
815606274	CAP FIX MULTICOUPLING DP 99x70
815606275	PARKING STATION MOBILE MULTICOUPLING DP 100x70
815701083	SPARE KIT LEVER GROUP DP 130x87

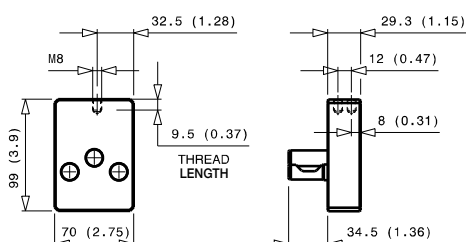
Fixed and mobile multicoupling

1,3 Kg and 0,6 Kg

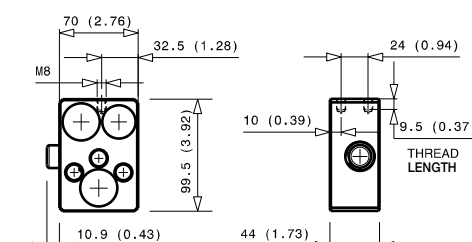


Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,5 Kg



Parking station for mobile multicoupling 0,6 Kg

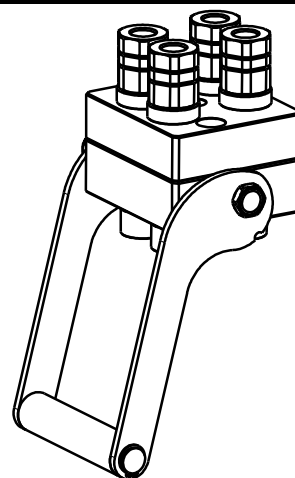


DP4 4A-2EC

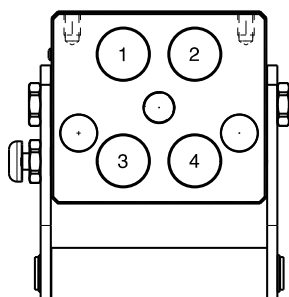


Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8"	1/2"	5/8"	3/4"	1"
DP4-9ZN	17000 N	4	A			

DRAWING



CONFIGURATIONS



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

MultiCoupling (couplings included)		
Code	Name	Description
870011017	MULTI COMPLETE DP4 4A	4 FAP9A 3/8 BSP - CAP
870011020	MULTI COMPLETE DP4 4A	4 FAP9A 1/2 BSP - CAP
870011022	MULTI COMPLETE DP4 4A	4 FAP9A 1/4 BSP - CAP
870011027	MULTI COMPLETE DP4 4A	4 FAP9A 3/8 BSP - CAP
870011028	MULTI COMPLETE DP4 4A	4 FAP9A 3/8 SAE - CAP
870011029	MULTI COMPLETE DP4 4A	4 FAP9A 1/2 NPT - CAP
870011117	MULTI FIX DP4 4A	4 FAP9A 3/8 BSP
870011120	MULTI FIX DP4 4A	4 FAP9A 1/2 BSP
870011122	MULTI FIX DP4 4A	4 FAP9A 1/4 BSP
870011125	MULTI FIX DP4 2A	2 FAP9A 3/8 BSP
870011126	MULTI FIX DP4 4A	4 FAP9A 1/2 SAE
870011217	MULTI MOBILE DP4 4A	4 FAP9A 3/8 BSP
870011220	MULTI MOBILE DP4 4A	4 FAP9A 1/2 BSP
870011222	MULTI MOBILE DP4 4A	4 FAP9A 1/4 BSP
870011229	MULTI MOBILE DP4 4A	4 FAP9A 1/2 NPT

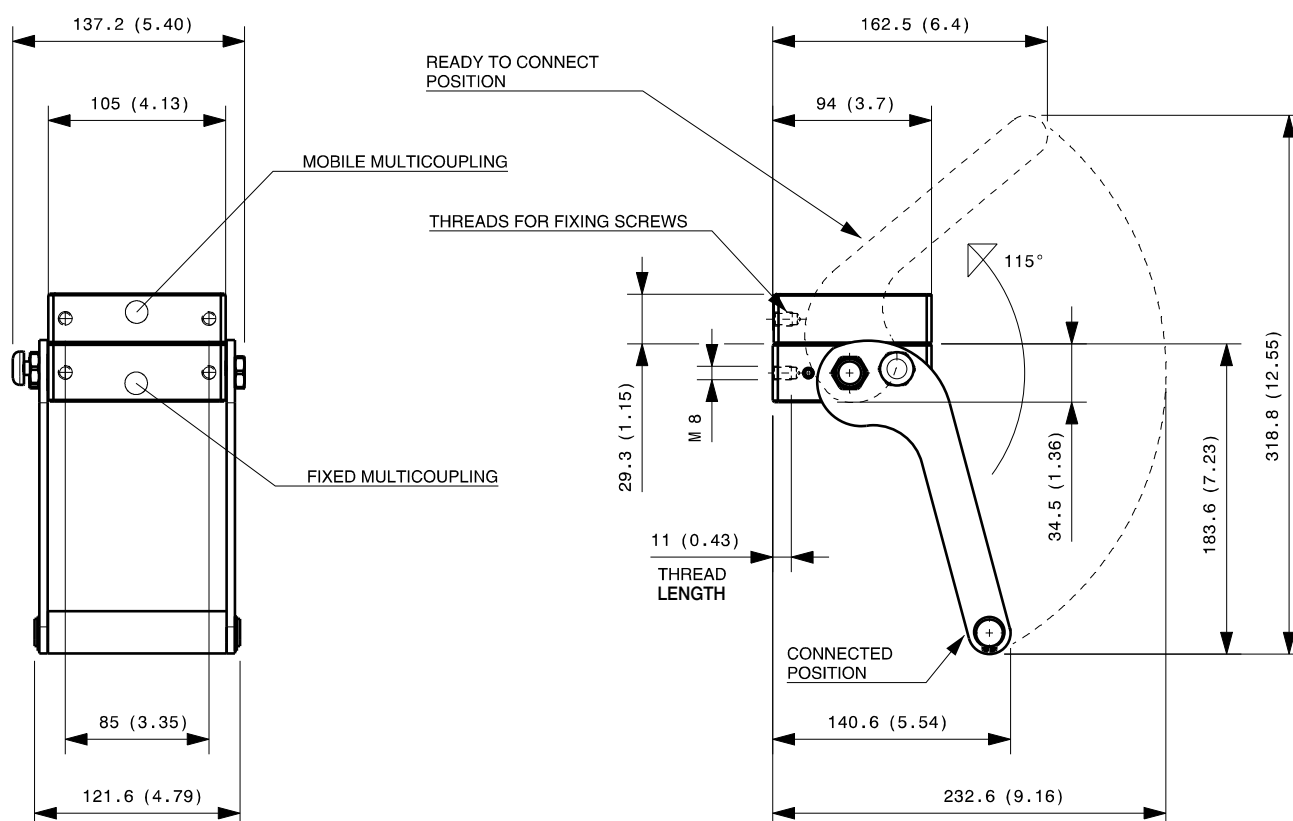
MultiCoupling spare parts (couplings not included)	
Code	Name
806000264	MULTI FIX EMPTY DP4 4A-2EC
806000370	MULTI FIX EMPTY DP4 4A V02*
806000265	MULTI MOBILE EMPTY DP4 4A-2EC
815606280	CAP FIX MULTICOUPLING DP 105x94
815606281	PARKING STATION MOBILE MULTICOUPLING DP 105x94
815701081	SPARE KIT LEVER GROUP DP 170x121
UPON REQUEST	SPECIFIC KIT FOR V02 MODEL

* V02 = side button

Custom configurations
available upon request

Fixed and mobile multicoupling

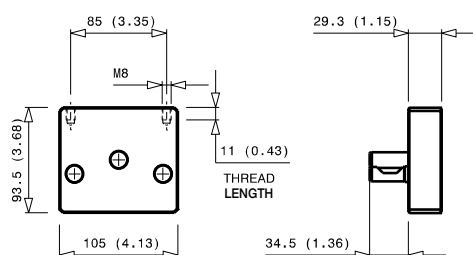
1,7 Kg and 0,7 Kg



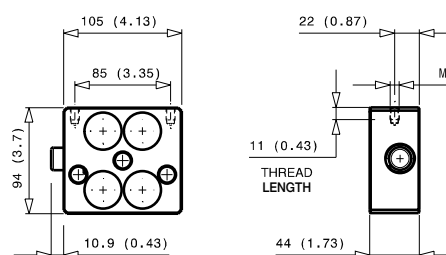
Available also model with button on the opposite side,
in case of need ask the drawing to info@stucchigroup.com.

Dimensions in millimeters (inch)

Cap for fixed multicoupling 0,7 Kg



Parking station for mobile multicoupling 0,9 Kg

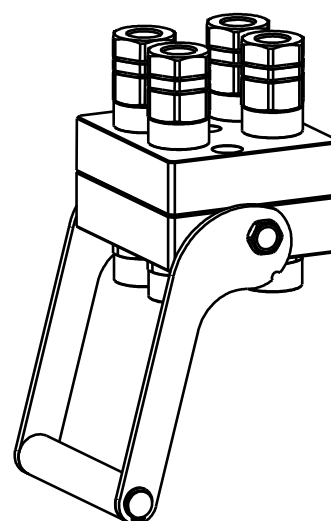


DP4 4B-2EC

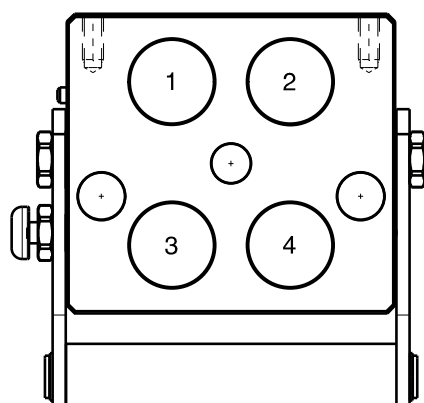


Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8"	1/2"	5/8"	3/4"	1"
DP4-13ZN	17000 N		4			

DRAWING



CONFIGURATIONS



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

MultiCoupling (couplings included)		
Code	Name	Description
870012007	MULTI COMPLETE DP4 4B	4 FAP13 3/4 BSP - CAP
870012008	MULTI COMPLETE DP4 4B	4 FAP13 1/2 BSP - CAP
870012009	MULTI COMPLETE DP4 4B	4 FAP13 1/2 NPT - CAP
870012107	MULTI FIX DP4 4B	4 FAP13 3/4 BSP
870012108	MULTI FIX DP4 4B	4 FAP13 1/2 BSP
870012109	MULTI FIX DP4 4B	4 FAP13 1/2 NPT
870012110	MULTI FIX DP4 2B 1EC	2 FAP13 1/2 BSP 1EC6
870012111	MULTI FIX DP4 2B	2 FAP13 1/2 BSP
870012207	MULTI MOBILE DP4 4B	4 FAP13 3/4 BSP
870012208	MULTI MOBILE DP4 4B	4 FAP13 1/2 BSP
870012209	MULTI MOBILE DP4 4B	4 FAP13 1/2 NPT
870012210	MULTI MOBILE DP4 2B 1EC	2 FAP13 1/2 BSP 1EC6

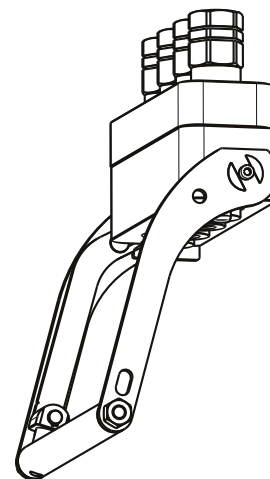
MultiCoupling spare parts (couplings not included)	
Code	Name
806000350	MULTI FIX EMPTY DP4 4B-2EC
806000351	MULTI MOBILE EMPTY DP4 4B-2EC
815606282	CAP FIX MULTICOUPLING DP 125x114
815606283	PARKING STATION MOBILE MULTICOUPLING DP 125x114
815701085	SPARE KIT LEVER GROUP DP 170x142

Custom configurations
available upon request

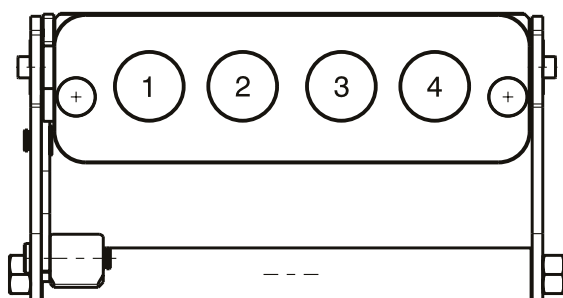
DP4 4B-1EC V01

Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size	13000 N	3/8"	1/2"	5/8"	3/4"	1"

DRAWING



CONFIGURATIONS



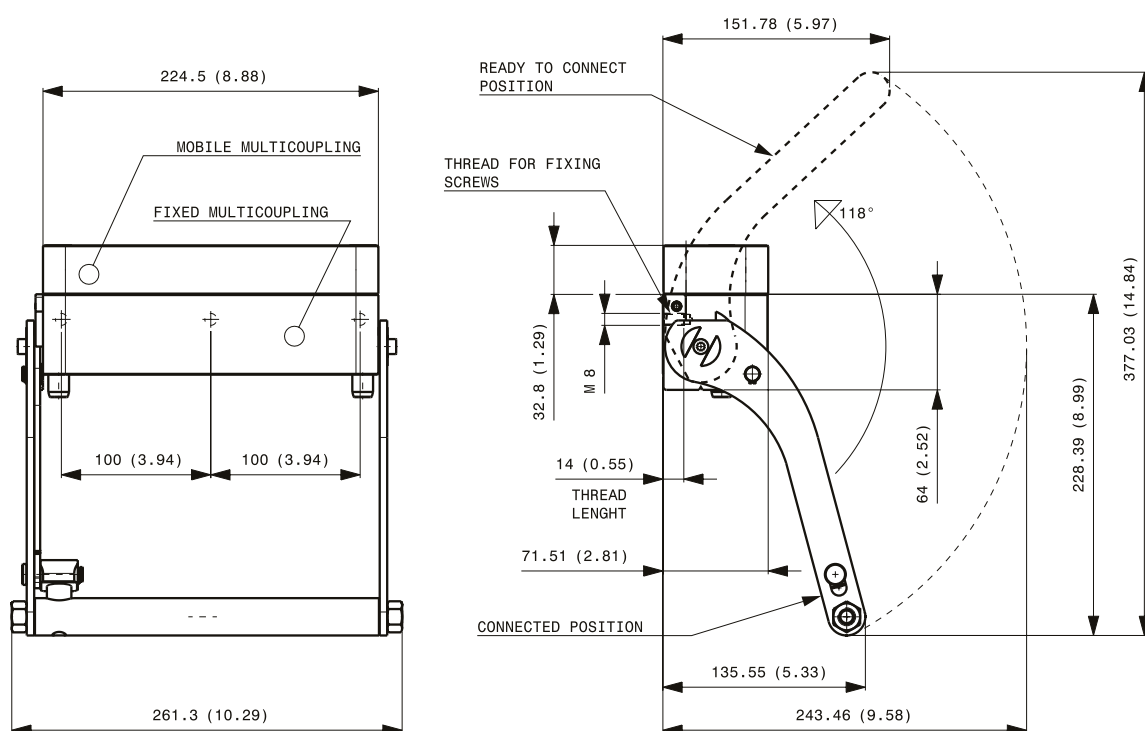
Possible configurations		
Pos	Coupling size	Predisposition for electrical connector
1	FAP13	YES
2	FAP13	-
3	FAP13	-
4	FAP13	-

MultiCoupling (couplings included)		
Code	Name	Description
870012012	MULTI COMPLETE DP4 4B-1EC V01	4 FAP13 1/2 BSP - CAP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000434	MULTI FIX EMPTY DP4 4B-1EC V01
806000435	MULTI MOBILE EMPTY DP4 4B-1EC V01
815606325	CAP FIX MULTICOUPLING DP4 4B V01 225X70
815606326	PARKING STATION MOBILE MULTICOUPLING DP4 4B V01
815701311	SPARE KIT LEVER GROUP DP 200x261

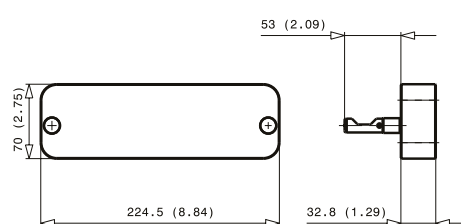
Fixed and mobile multicoupling

3,4 Kg and 1,2 Kg



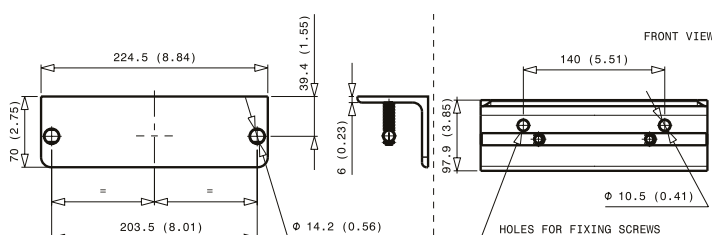
Dimensions in millimeters (inch)

Cap for fixed multicoupling 1,2 Kg



Parking station for mobile multicoupling

1,6 Kg

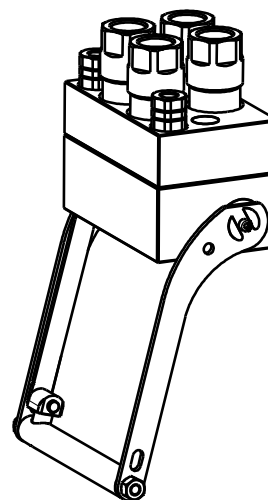


DP6 2A-4D-2EC

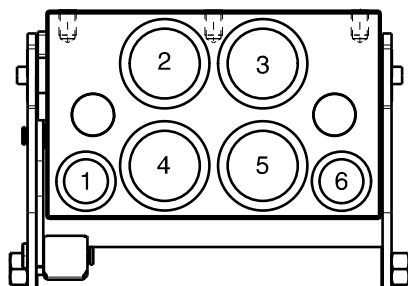


Previous description	Max. Resistance	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)
Body size		3/8"	1/2"	5/8"	3/4"	1"
DP6AD	23000 N	2	D		4	

DRAWING



CONFIGURATIONS



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

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

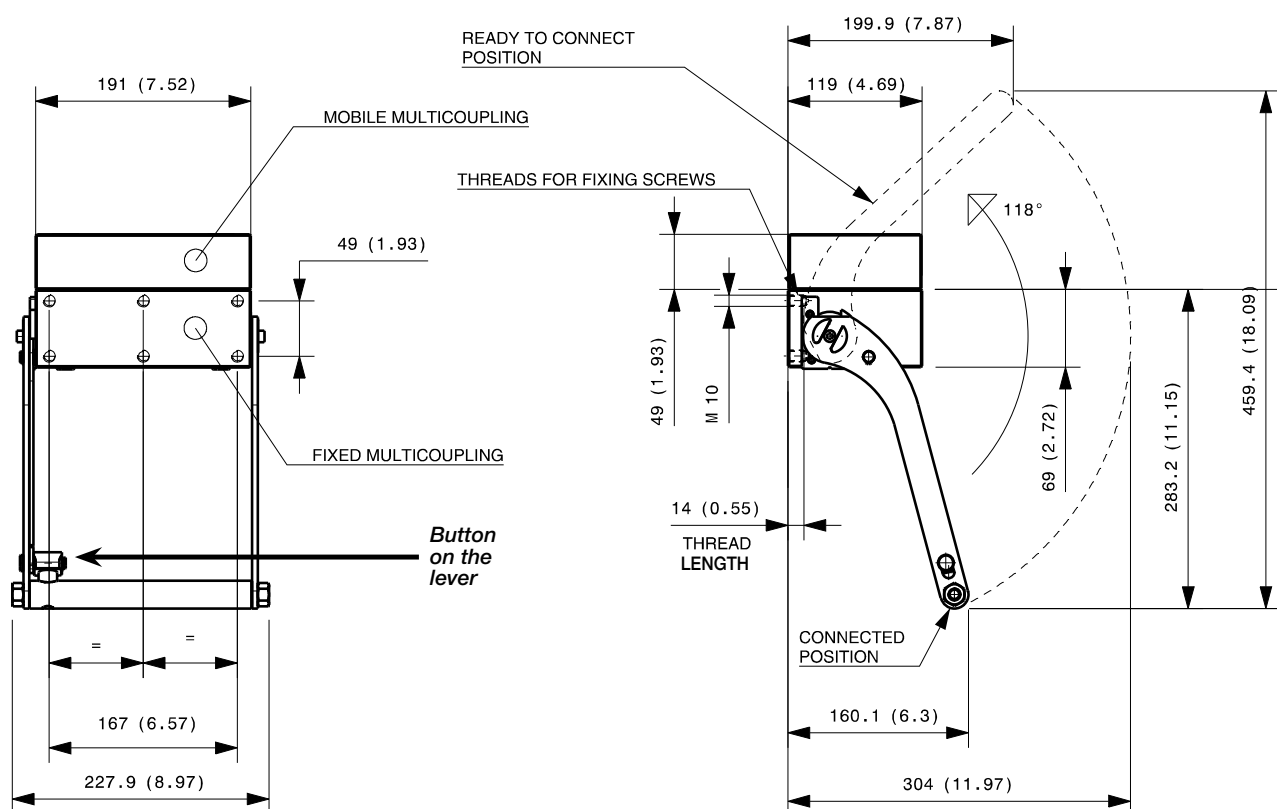
MultiCoupling (couplings included)		
Code	Name	Description
870008023	MULTI COMPLETE DP6 2A-4D	2 FAP9D 3/8 BSP - 4 FAP17 1 BSP - CAP
870008028	MULTI COMPLETE DP6 4D	4 FAP17 1 BSP - CAP
870008123	MULTI FIX DP6 2A-4D	2 FAP9D 3/8 BSP - 4 FAP17 1 BSP
870008128	MULTI FIX DP6 4D	4 FAP17 1 BSP - CAP
870008223	MULTI MOBILE DP6 2A-4D	2 FAP9D 3/8 BSP - 4 FAP17 1 BSP
870008228	MULTI MOBILE DP6 4D	4 FAP17 1 BSP - CAP

MultiCoupling spare parts (couplings not included)	
Code	Name
806000382	MULTI FIX EMPTY DP6 2A-4D-2EC
806000383	MULTI MOBILE EMPTY DP6 2A-4D-2EC
815606290	CAP FIX MULTICOUPLING DP 191x118
815606291	PARKING STATION MOBILE MULTICOUPLING DP 190x120
815701089	SPARE KIT LEVER GROUP DP 250x228

Custom configurations
available upon request

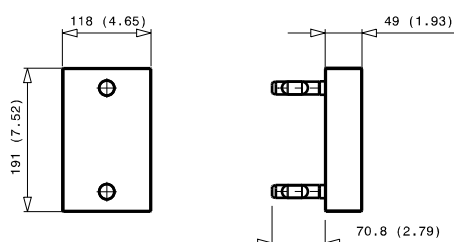
Fixed and mobile multicoupling

4,5 Kg and 2,2 Kg



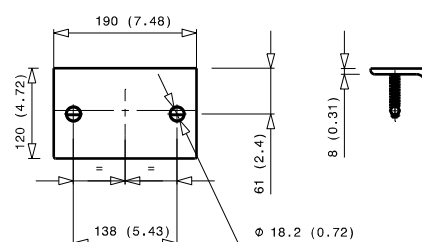
Dimensions in millimeters (inch)

Cap for fixed multicoupling 2,8 Kg



Parking station for mobile multicoupling

2,5 Kg



DP Series

Complete lever set spare kit

Composed of:

Levers

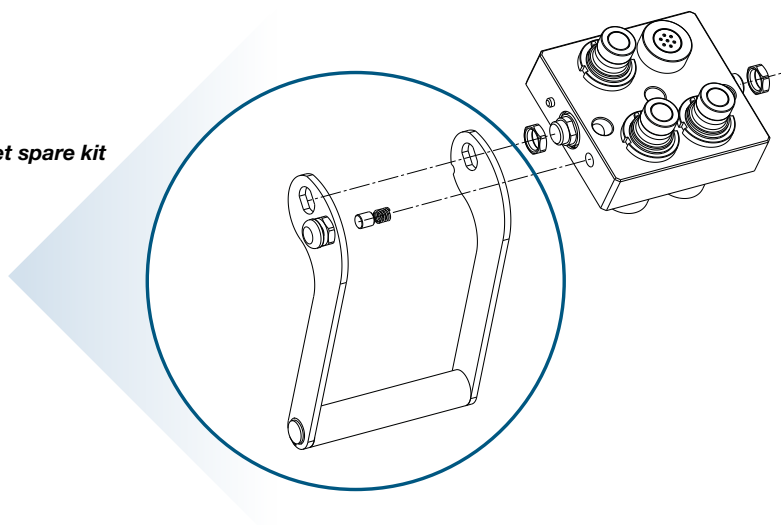
Spring

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

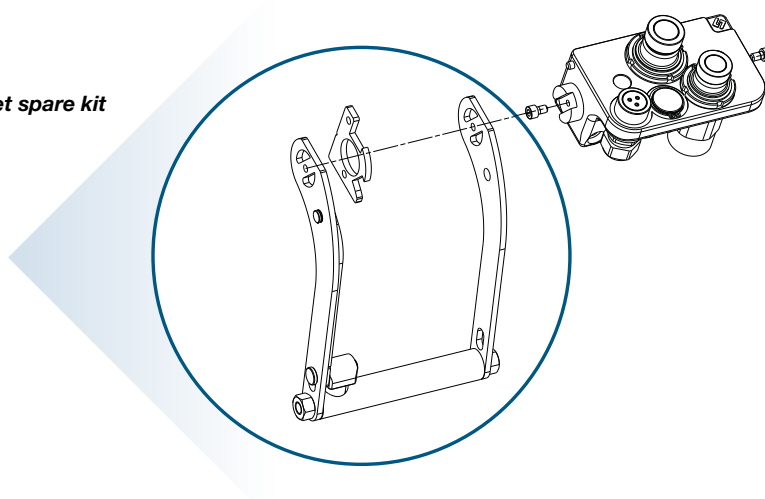
Seeger ring

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.

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 as 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 burst pressure for your selection.

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

2.11 Residual pressure

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

The term 'internal residual pressure' means: the static pressure retained in the system, which has not been generated by a working pump or other accessories in movement. The structure of the machine or plant in which these products are placed, must be suitable to limit accidental splashing and fluid losses caused by wrong usage or malfunctioning of the product, in order to avoid direct and indirect damage on persons, animals or objects. The temperature of the fluid must not exceed the limits mentioned in point 2.8

2.12 Connection frequency

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

An under-estimated value can cause unexpected fluid loss.

2.13 Safety device

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

2.14 Mechanical loads

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

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

2.15 Rotation

In case of applications with rotation use only products developed for this scope.

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

2.16 Special applications

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

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

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

3.0 INSTRUCTIONS FOR STOCK PRESERVATION

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

3.1 Packaging

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

3.2 Environments

The products shall be kept in environments with low percentage of humidity, no condensation, no salt, protected from atmospheric factors, far away from heating devices and magnetic fields.

Eliminate equipment that can produce ozone, as this element is extremely destructive for the seals.



3.3 Protection cap

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

3.4 Special packaging

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

4.0 INSTALLATION INSTRUCTIONS

4.1 Pre Installation inspections

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

4.2 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 it 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.**