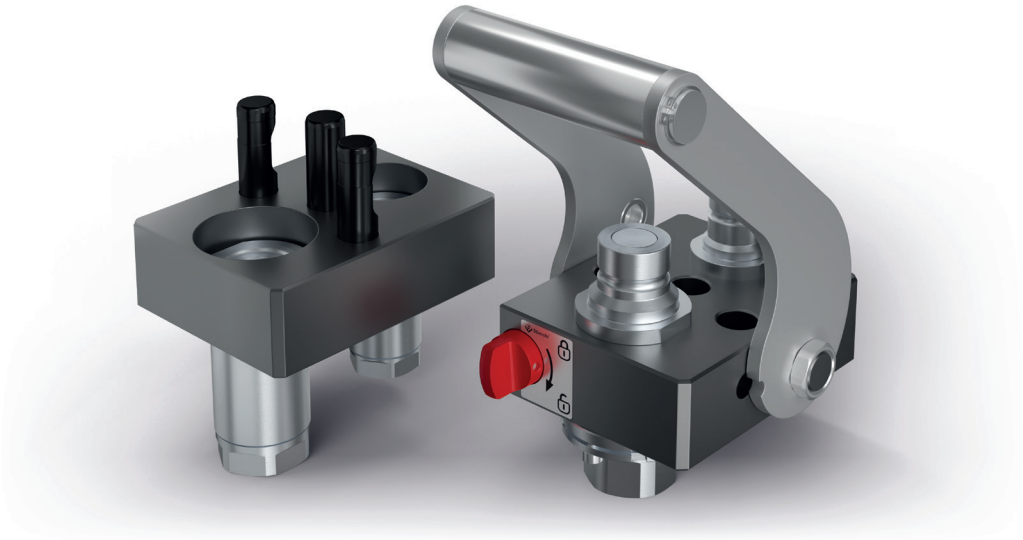
DPHD2 1A-1B

SPECIAL SERIES

Stucchi®

Easy CUP



FAP9 (A) 3/8”	FAP13 (B) 1/2”	FAP15 (C) 5/8”	FAP17 (D) 3/4”	FAP21 (E) 1”	FAP30 (G) 1-1/2”	EC instead of DN9 or DN13
1 FAP9ASZN	1 FAP13ASZN					2

Technical specifications and options

Interchange
Stucchi profile

Sealing
Nitrile NBR

Available sizes
3/8”, 1/2”

Material
Aluminum, Carbon steel

Valving style
Flat face

Connection Under Pressure
Allowed with Easy CUP

Operating pressure
up to 420 bar

Locking mechanism
Pin, Cam

Temperature
-20°C / +100°C

Connection system
Lever

Available threads
BSP

Flow rate
up to 90 l/min

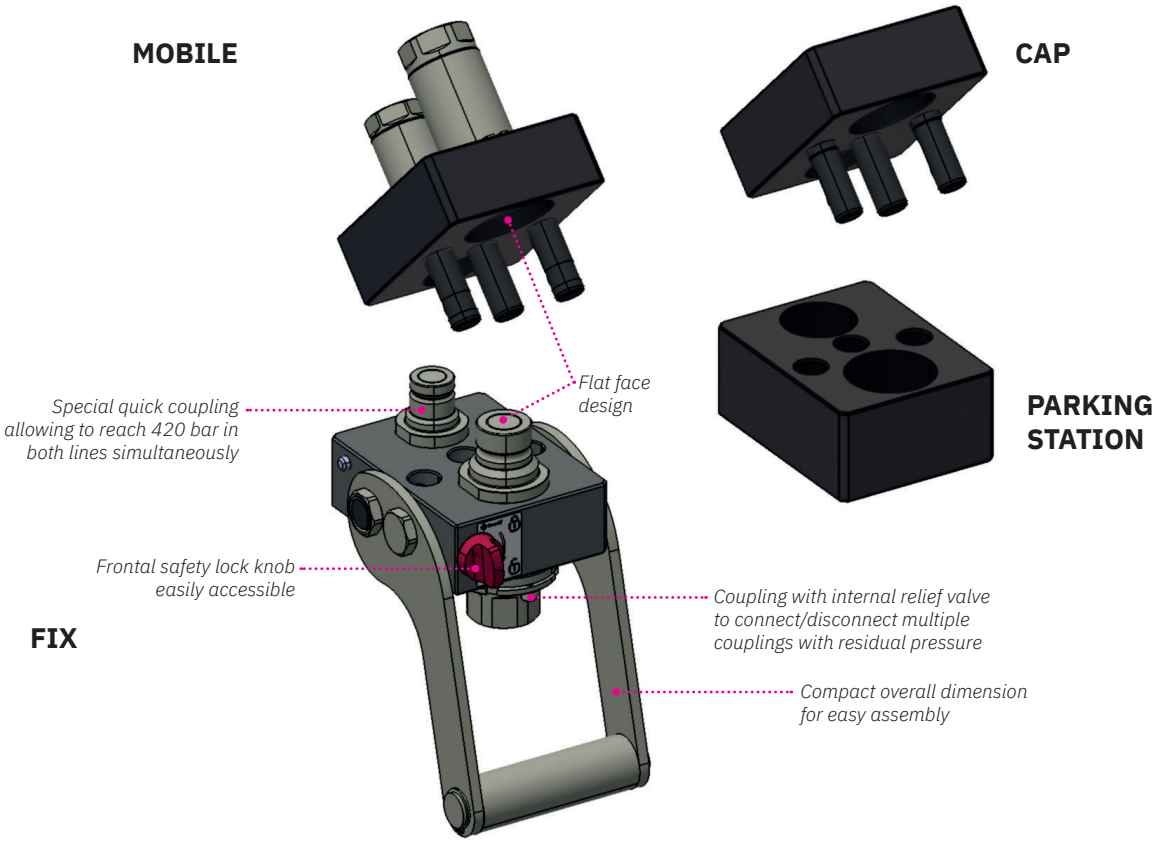
Benefits

- DPHD2 1A-1B is specifically developed and designed for all heavy duty applications, including earth moving and industry
- The robust design of the multiplate, combined with the robust special quick couplings installed, allows to reach 420 bar in both lines simultaneously
- High resistance at impulse pressures with high frequency tested at 1 million cycles
- Compact overall dimension for easy assembly in small spaces
- Frontal safety lock knob easily accessible even when mounted in narrow spaces
- The locking mechanism ensures a full connection and prevents accidental disconnection
- No risk of misalignment or misconnection with guide pin design
- Flat face couplings are easy to clean, reducing the inclusion of contamination to the hydraulic circuit
- Coupling design to connect/disconnect multiple couplings with residual pressure
- Internal valve design creates minimal pressure drop, maintaining circuit efficiency in the system
- Minimal fluid loss during disconnection, reducing fluid loss to the environment
- Minimal air inclusion during connection/disconnection
- Safe and simple to use

Main applications

Agriculture · Oil&Gas · Industry · High Pressure · Cooling · Refrigeration · Earth Moving · Vehicles · Hydraulic Equipment · Chemical & Food Industry

Features



Performances

Size	Series	Max. flow suggested		Hydroplastic pushing area coupled	Spillage*	Max. operating pressure					
						Coupled		Male		Female	
Inch		l/min	GPM	Cm²	ml	MPa	psi	MPa	psi	MPa	psi
3/8	FAP9ASZN	46	12,19	1,226	0,012	42	6090	42	6090	35	5075
1/2	FAP13ASZN	90	23,55	1,893	0,02	42	6090	42	6090	35	5075

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

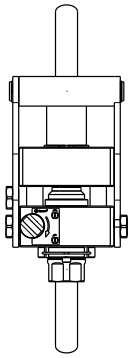
Temperature range:
Standard seals NBR, PUR, POM from -20 °C to +100 °C (from -4 °F to +212 °F). Please read carefully “instruction and warning” for proper selection of the products.

Test:
The product have been tested in accordance with ISO norm with the two lines at max.operating pressure simultaneously for 1.000.000 impulses coupled and 100.000 impulses uncoupled.

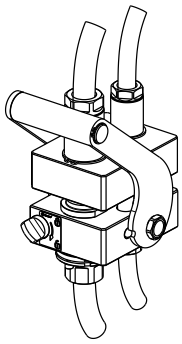
Installation, use and maintenance

To connect

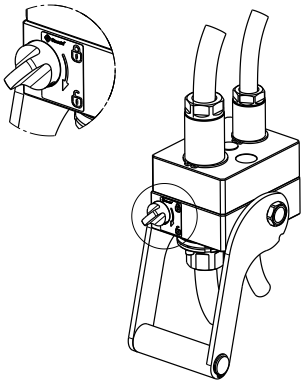
- Before coupling, clean the flat mating surface of the couplings to avoid inclusion of dirt in the circuit.
- Insert the guidance pins of the mobile multicoupling into the holes of the fixed multicoupling and move the mobile half till the contact of the couplings faces (fig. 1).
- Acting on the handle 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.



1



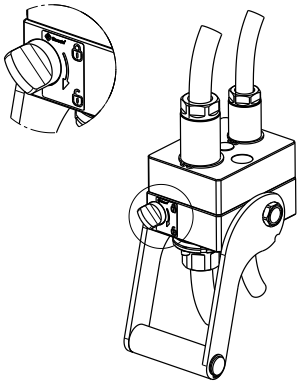
2



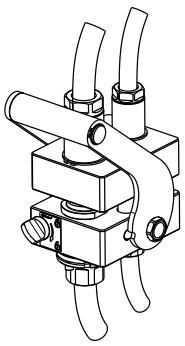
3

To disconnect

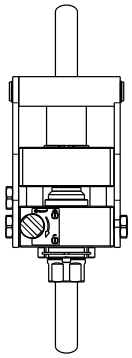
- Rotate clockwise the red knob to unlock the safety system
- Act on the handle turn the lever in the direction of the mobile multicoupling (fig. 4).
- Continue to rotate till the mechanical stop of the levers (fig. 5)
- Now the multicoupling is uncoupled and it is possible to pull out the mobile half (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.



4



5

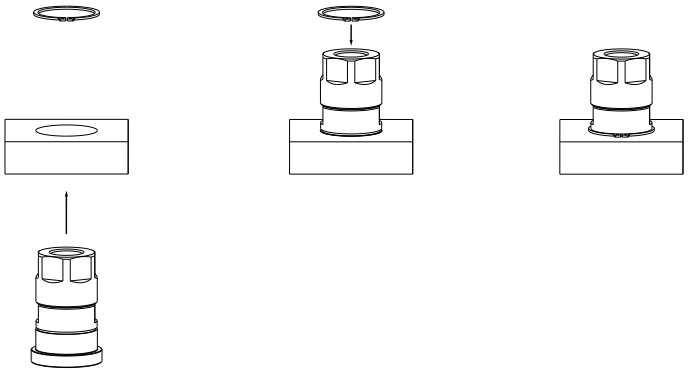


6

Assembling instructions:

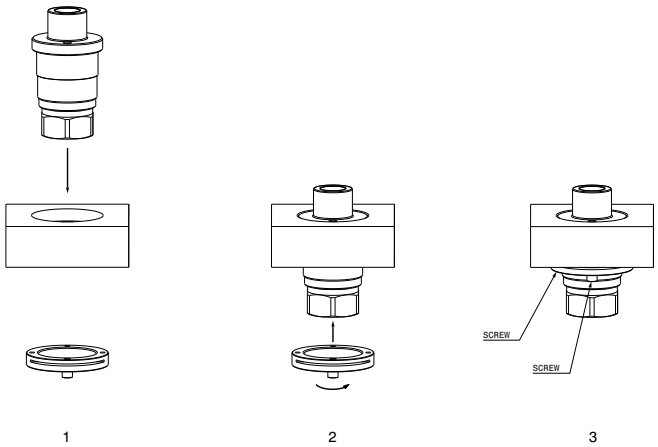
FAP AS female instruction

- To assemble female FAP-AS insert the coupling in the multiconnection hole (see Fig 1) then assemble the seeger ring on the back side of the couplings in order to lock the female couplings on the plates (Fig 2 and 3); then mount the flexible hoses on threaded port by screwing with proper torque.
- To disassemble make the same with reverse process (Fig 3-2-1).



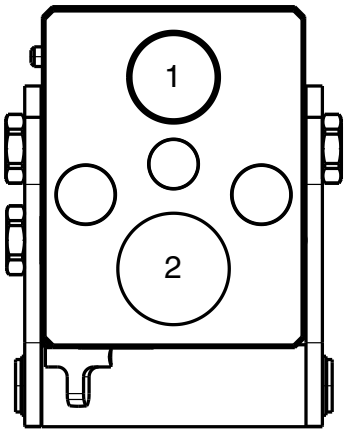
FAP AS male instruction

- To assemble male FAP-AS insert the coupling in the multiconnection hole (see Fig 1) then assemble the threaded ring on the back side of the couplings in order to lock the male couplings on the plates (Fig 2); lock the threaded ring with a torque of 100 Nm then screw the little nut with 9 Nm to lock the thread (Fig3). After that, then mount the flexible hoses on threaded port by screwing with proper torque.
- To disassemble make the same with reverse process (Fig 3-2-1).



- Before connecting clean the mating surface of the male and female coupling, to avoid inclusion of contamination in the circuit.
- Connect and disconnect the multiconnection according to Custom multicoupling working cycle to verify the correct function of the whole system.

Configurations



Possible configurations

Position	Coupling Size	Predisposition for electrical connector
1	FAP9ASZN	-
2	FAP13ASZN	-

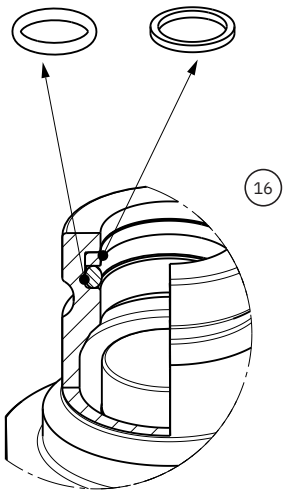
Plates and spare parts

Multicoupling (couplings included)

Code	Name	Description
870009117	MULTI FIX DPHD2 1A-1B	1 FAP9ASZN 3/8 BSP - 1 FAP13ASZN 1/2 BSP
870009217	MULTI MOBILE DPHD2 1A-1B	1 FAP9ASZN 3/8 BSP - 1 FAP13ASZN 1/2 BSP

Multicoupling spare parts (couplings not included)

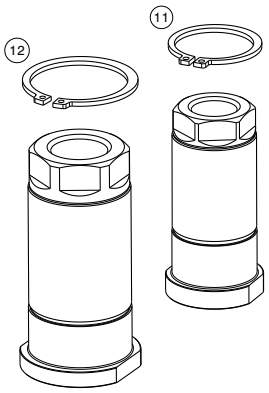
Code	Name	Key
806000426	MULTI FIX EMPTY DPHD2 1A-1B	1
806000427	MULTI MOBILE EMPTY DPHD2 1A-1B	2
815606328	CAP FIX MULTICOUPLING DPHD 104x80	3
815606329	PARKING STATION MOBILE MULTICOUPLING DPHD 104x80	4
815701371	SPARE KIT LEVER GROUP DPHD2	5
815701372	SPARE KIT SAFETY KNOB DPHD2	6

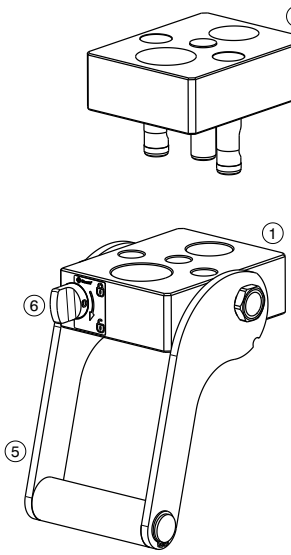


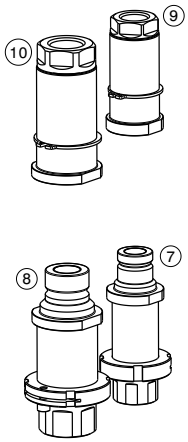
Spare parts

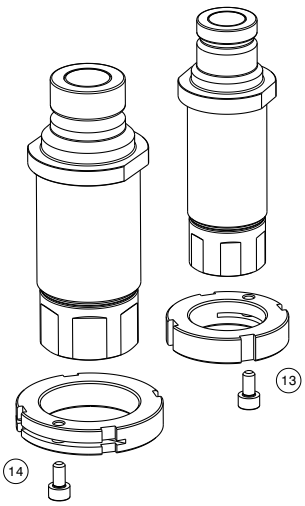
Code	Name	Key
807100061*	M FAP9ASZN 3/8 BSP	7
807100063*	M FAP13ASZN 1/2 BSP	8
807100060*	F FAP9ASZN 3/8 BSP	9
807100062*	F FAP13ASZN 1/2 BSP	10
815701315	SPARE KIT SEEGER F FAP9AS	11
815701317	SPARE KIT SEEGER F FAP13AS	12
815701316	SPARE KIT LOCKING SLEEVE M FAP9AS	13
815701318	SPARE KIT LOCKING SLEEVE M FAP13AS	14
815701096	SPARE KIT OR NBR+BK M FF CUP 38	15
815700339	SPARE KIT OR NBR+BK M FF 12	16

*Seeger Ring and Nut are not included with the coupling and must be ordered separately.







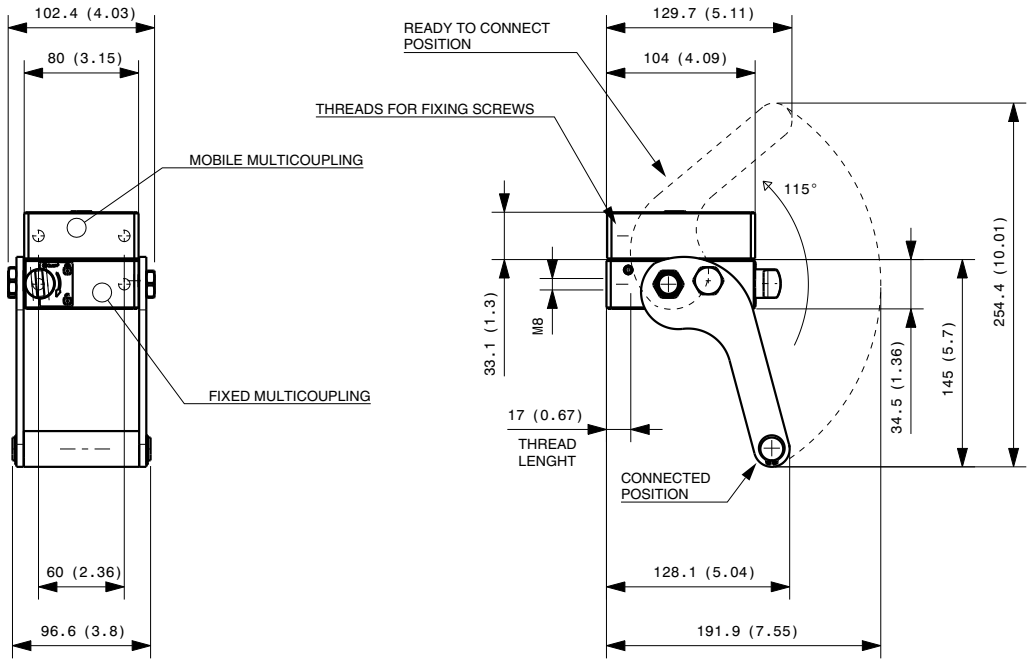


Overall dimensions

Max. resistance 13500

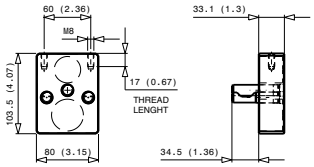
Fixed and mobile multicoupling

Weight 1,52 and 0,75 kg



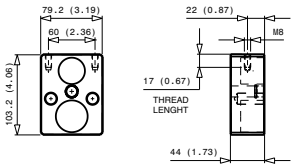
Cap for fix multicoupling

Weight 0,73 kg



Parking station for mobile multicoupling

Weight 0,75 kg



Dimensions in mm (inches)

IMPORTANT WARNINGS

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.
Do not force the lever without turning the red frontal safety knob.
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 and 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 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 DP are intended to be used for hydraulic oil applications with limitations given by NBR seal compatibility and temperature range.
Do not use DP series multiconnection for very high temperature applications.
It is MANDATORY to read and closely follow the instructions. Last updated version always applies at time of installation, see latest written Instructions on Stucchi website (stucchigroup.com) before selecting or using Stucchi products.

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