



The GR Series of Multi-Coupling Plates allows the simultaneous coupling and uncoupling of two to ten hydraulic and/or electrical lines with a single simple movement requiring very little force. The circuit lines can all have the same nominal coupler diameter and different media or different size couplers. A dust cap is supplied, and options include an electrical connector for low voltage requirements and a parking station.



Instructions & Parking Stations – page 71

FEATURES

Size range: 3/8" thru 1 1/4"

Port options: NPT, SAE, BSP

Connect/disconnect up to 25 MPa/300 bar/3625 psi residual pressure

- Simple to use, with single-motion connection
- Auto-lock design prevents accidental disconnection
- Min. of 2 to max. of 10 lines of different nominal size couplers or the same size diameter and different media

APPLICATIONS

Any application requiring leak-free connections with or without residual pressure of multiple couplings

- Harvesters, front-end loaders, snow removal, construction machinery, mining, drilling machinery
- Refrigeration equipment



ORDER CODES

43	04	08	08	04	C	27
SERIES NUMBER	NUMBER OF COUPLINGS	SIZE OF COUPLER	PORT SIZE	THREAD	SUFFIX	OPTIONAL NUMBER OF ELECTRICAL CONNECTIONS
31 = GRB4ZN 32 = GRI4ZN 33 = GRT6ZN 41 = GRP6ZN 42 = GRM6ZN 43 = GRU6ZN 51 = GR5AAZN	01# OF COUPLINGS 02# OF COUPLINGS 03# OF COUPLINGS ETC.	04 = 1/4 06 = 3/8 08 = 1/2 12 = 3/4 16 = 1 20 = 1 1/4	04 = 1/4 06 = 3/8 08 = 1/2 12 = 3/4 16 = 1 20 = 1 1/4	01 = NPT 04 = SAE	FH = FIX HALF MH = MOBILE HALF C = COMPLETE	17 1 ELECTRICAL CONNECTION 7 PRONGS 16 1 ELECTRICAL CONNECTION 6 PRONGS 27 2 ELECTRICAL CONNECTION 7 PRONGS

SERIES ORDER CODE PREFIX	COUPLER CODE # AND COUPLER SIZE MULTI-COUPLER PLATE SERIES MULTIPLE SIZE COUPLER					
	FAP 9 3/8	FAP 13 1/2	FAP 15 3/4	FAP 17 1	FAP 21 1 1/4	
31						
41						
32						
42						
35						
45						
33						
43						
34						
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51						
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33						
43						
34						
44						
56						
57						
58						

The above list consists of the most popular stock items. Standard plates offer a variety of hydraulic coupler and electrical connector combinations too broad to list in this brochure. Contact a Stucchi representative to discuss your application as well as any solutions



Cover Plate
Heavy-Duty Metal
Dust Cover for Fixed Half



Mobile Half
Flat Face Couplers: Easy to Clean, No Leakage
Guide Pins Eliminate Risk of Misaligned Circuit



Electrical Connector Option
Corrosion Resistant Materials
Patented Design

Fixed Half
Patented Coupling Design Prevents Seal Extrusion
Wide Range of Port Threads Available
Electrical Connector Options



Parking Station



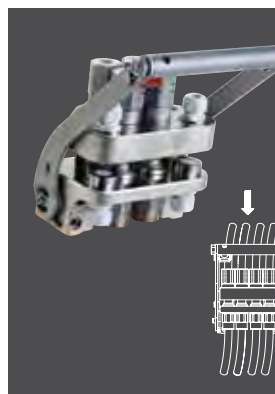
Cover Plate in Parking Station



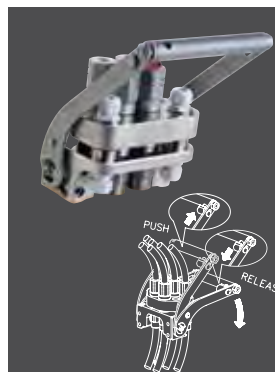
Mobile Half in Parking Station



To Connect



Step 1
Insert the guide pins of the mobile half (half w/pins) in the holes of the fixed half (handle half) and slide the mobile half pins until there is contact between the couplings' faces



Step 2
Push the red safety button; at the same time, turn the lever of the handle in the direction of the fixed half in a downward motion

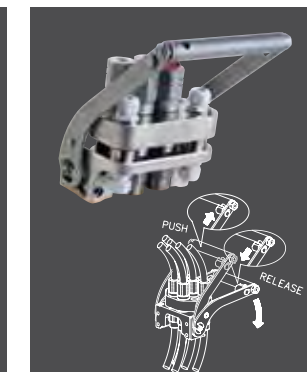


Step 4
Continue to rotate until the safety lock automatically engages itself

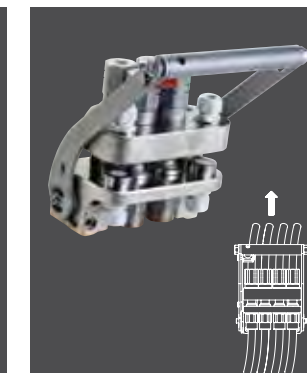
To Disconnect



Step 5
Push the red safety button; at the same time, turn the lever of the handle in the direction of the mobile half upward



Step 6
After a short rotation, release the red button



Step 8
Now the multi-coupling plate is uncoupled and it is possible to pull out the mobile half

WARNING

- Do not force the lever without pushing the red safety button
- Do not use extensions or other tools to ease the rotation of the lever
- Do not connect the fixed half with the mobile half if dirt or other material is between them
- When the multi-coupling is disconnected, it is suggested to use the dust cover for the fixed half and the parking station for the mobile half

The Stucchi Solution to Connecting Multiple Couplings Simultaneously

1. Ergonomic lever for easy connect/disconnect with residual pressure
2. Patented coupling design to connect/disconnect multiple couplings with high residual pressure
3. Flat face couplers eliminate environmental issue of leakage
4. No risk of misalignment with guide pin design
5. Couplers mounted with snap rings for ease of installation or replacement
6. Fixed half male couplers interchangeable with ISO 16028 style flat face coupling
7. Electrical connector option for electronic control systems
8. Easily mounted on new equipment or retrofit on pre-existing system

Parking Stations

ORDER CODE	DESCRIPTION
815606009	PARKING STATION GR3-9
815606001	PARKING STATION GR6-9
815606003	PARKING STATION GR6-13
815606025	PARKING STATION GR10-13
815606013	PARKING STATION GR10-9



MULTI-COUPLING PLATES

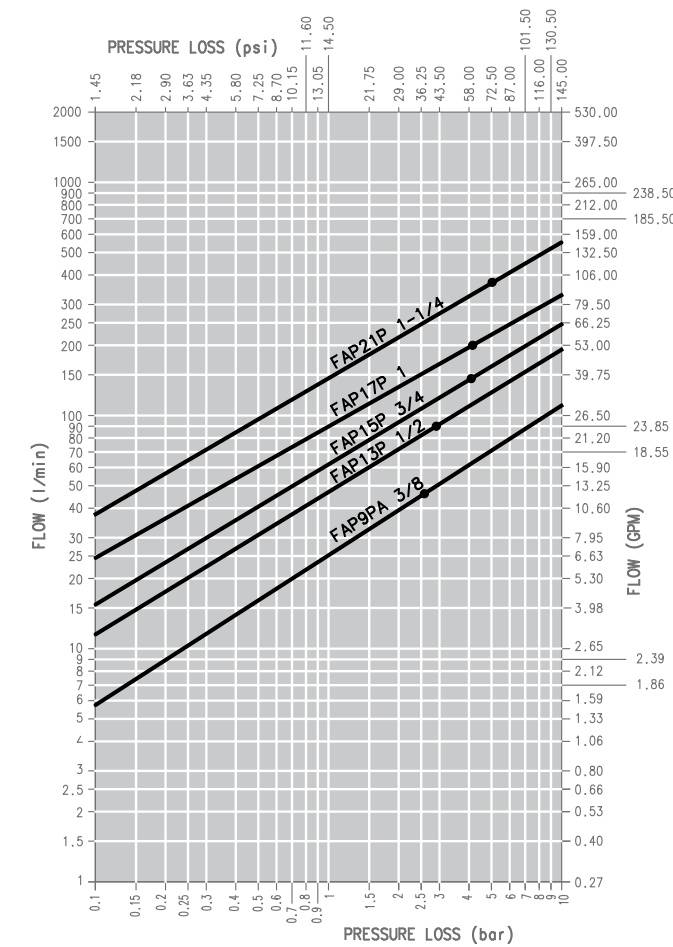


PERFORMANCE

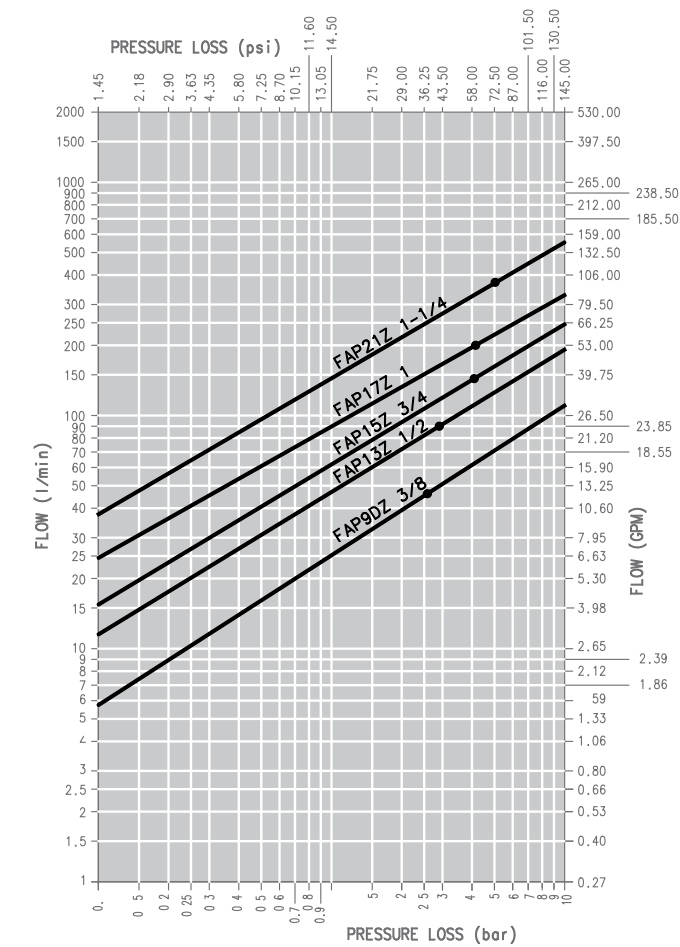
DESCRIPTION	SIZE	MAX. OPERATING PRESSURE COUPLED		BURST PRESSURE				MAX. RESIDUAL PRESSURE DURING CONNECTION		SPILLAGE*		
		MPa	psi	COUPLED	MALE	FEMALE	MPa	psi				
FAP												
FAP9	3/8	35	5075	120	17400	120	17400	100	14500	25	3625	0.012
FAP13	1/2	33	4785	120	17400	120	17400	100	14500	25	3625	0.020
FAP15	3/4	33	4785	120	17400	120	17400	100	14500	25	3625	0.110
FAP17	1	33	4785	120	17400	120	17400	100	14500	25	3625	0.032
FAP21	1 1/4	30	4350	100	14500	100	14500	80	11600	25	3625	0.035
FAPZ												
FAP9Z	3/8	35	5075	120	17400	120	17400	100	14500	25	3625	0.012
FAP13Z	1/2	33	4785	120	17400	120	17400	100	14500	25	3625	0.020
FAP15Z	3/4	33	4785	120	17400	120	17400	100	14500	25	3625	0.110
FAP17Z	1	33	4785	120	17400	120	17400	100	14500	25	3625	0.032
FAP21Z	1 1/4	30	4350	100	14500	100	14500	80	14500	25	3625	0.035

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

FAP PRESSURE DROP



FAPZ PRESSURE DROP



OIL = ISO VG32, TEMP = 40C, VISCOSITY = 28.8-35.2 MM²/S

FAP NPT and SAE Thread Replacement Couplers

PART	BODY SIZE	PORT SIZE	THREAD TYPE	ORDER CODE	DESCRIPTION
FAP NPT THREAD					
COUPLER	3/8	1/2	NPT	805001050	F. FAP9PA 1/2 NPT
NIPPLE	3/8	1/2	NPT	805001051	M. FAP9PA 1/2 NPT
COUPLER	3/8	3/8	NPT	805001052	F. FAP9PA 3/8 NPT
NIPPLE	3/8	3/8	NPT	805001053	M. FAP9PA 3/8 NPT
COUPLER	3/8	3/8	NPT	805001074	F. FAP9PD 3/8 NPT
NIPPLE	3/8	3/8	NPT	805001075	M. FAP9PD 3/8 NPT
COUPLER	3/8	1/2	NPT	805001000	F. FAP9PD 1/2 NPT
NIPPLE	3/8	1/2	NPT	805001001	M. FAP9PD 1/2 NPT
COUPLER	1/2	1/2	NPT	805001056	F. FAP13P 1/2 NPT
NIPPLE	1/2	1/2	NPT	805001057	M. FAP13P 1/2 NPT
COUPLER	1/2	3/4	NPT	805001058	F. FAP13P 3/4 NPT
NIPPLE	1/2	3/4	NPT	805001059	M. FAP13P 3/4 NPT
COUPLER	3/4	3/4	NPT	805001078	F. FAP15P 3/4 NPT
NIPPLE	3/4	3/4	NPT	805001079	M. FAP15P 3/4 NPT
COUPLER	1	1	NPT	805001082	F. FAP17P 1 NPT
NIPPLE	1	1	NPT	805001083	M. FAP17P 1 NPT
FAP SAE THREAD					
COUPLER	3/8	1/2	SAE	805004020	F. FAP9PD 1/2 SAE
NIPPLE	3/8	1/2	SAE	805004021	M. FAP9PD 1/2 SAE
COUPLER	3/8	1/2	SAE	805004012	F. FAP9PA 1/2 SAE
NIPPLE	3/8	1/2	SAE	805004013	M. FAP9PA 1/2 SAE
COUPLER	1/2	1/2	SAE	805004004	F. FAP13P 1/2 SAE
NIPPLE	1/2	1/2	SAE	805004005	M. FAP13P 1/2 SAE
COUPLER	1/2	3/4	SAE	805004058	F. FAP13P 3/4 SAE
NIPPLE	1/2	3/4	SAE	805004059	M. FAP13P 3/4 SAE
COUPLER	1/2	5/8	SAE	800504006	F. FAP13P 5/8 SAE
NIPPLE	1/2	5/8	SAE	805004007	M. FAP13P 5/8 SAE
COUPLER	3/4	3/4	SAE	805004078	F. FAP15P 3/4 SAE
NIPPLE	3/4	3/4	SAE	805004079	M. FAP15P 3/4 SAE
COUPLER	1	1	SAE	805004082	F. FAP17P 1 SAE
NIPPLE	1	1	SAE	805004083	M. FAP17P 1 SAE



Coupler



Nipple

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