

# MS FOSTER

SERVING THE TRANSPORTATION INDUSTRY

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## Stucchi<sup>®</sup>



### MULTI-COUPLING PLATES





**Overview**

- Front end loaders
- Harvesting equipment
- Construction machinery
- Refrigeration
- Snow removal equipment
- Energy sector
- Any application requiring connection under residual pressure of multiple couplings

**Features**

- Connect up to 25 MPa/ 3625 psi residual pressure
- Auto safety lock when connected
- Single hand operation
- Compact design
- Flat face couplers eliminate leakage
- Flat face couplers reduce contamination
- Guide mechanism eliminates cross connecting circuits

**Multi-Coupling Plate**

The multi-coupling plate is a tool allowing the simultaneous couple and uncouple of a certain number of hydraulic and/or electrical lines. From a minimum of two to a maximum of ten lines can be simultaneously connected by a single, simple movement requiring very little force.

The energy lines can all have the same nominal diameter or each line can be different from the others according to the application. A special multi-coupling plate version provided with electrical connector can be supplied.

- Connects with residual pressure
- Mechanical connection eliminates brinneling effect
- Safety lock prevents unwanted disconnection
- Simple to use with a single movement applied by one arm only
- Ease of maintenance or replacement of quick couplings
- Cap and parking station available



**< Cover Plate**

Heavy Duty Metal  
Dust Cover for Fixed Half

**Parking Station >**

**Cover Plate in Parking Station >**

**Mobile Half in Parking Station >**

**< Mobile Half**

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

**Fixed Half >**

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

**< Electrical Connector Option**

Corrosion Resistant Materials  
Patented Design

**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



### To Connect:

### To Disconnect:

**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 5**  
Push the red safety button, at the same time acting on the handle turn the lever in the direction of the mobile half upward

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

**Step 3**  
After a short rotation, release the red button

**Step 6**  
After a short rotation, release the red button

**Step 7**  
Continue to rotate upward until the safety lock automatically engages itself

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

**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 rotating 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

ORDER CODE STRUCTURE						
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 = GRB4 32 = GRI4 33 = GRT6 41 = GRP6 42 = GRM6 43 = GRU6 44 = GR5AA	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 Z PRONGS 27 2 ELECTRICAL CONNECTION Z 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	GRB4	2	2			
41	GRP6	1	1	1	2	
32	GRI4	2		1	1	
42	GRM6	2		2	2	
35	GRC6	3	1	1	1	
45	GRD5	3			1	1
33	GRT6	4	2			
43	GRU6	2	2		1	1
34	GRZ5		2	2		1
47	GR6AB		4		2	
51	GR5AA		2		3	
45	GRI4TB	2		2		
46	GRK3	1				2
48	GR6LL		2		4	
47	GRM6AL	2		4		
54	GRM6MC	2	2	2		
45	GRI4SB	2	1	1		
39	GR5-15			5		
35	GR3-9	3				
45	GR3-13		3			
33	GR6-9	6				
43	GR6-13		6			
34	GR10-9	10				
44	GR10-13		10			
56	GR7AA	4	1		2	
57	GR7AB	4	3			
58	GR8AA	7			1	

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 and a solution.



### To Connect:

### To Disconnect:

**Step 1**  
Insert the guide pins of the mobile half in the holes of the fixed half and slide the mobile half pins until there is contact between the couplings' faces

**Step 4**  
Push the red safety button, at the same time acting on the handle turn the lever in the direction of the mobile half of the multi-coupling in an upward motion

PREMERE

**Step 2**  
Acting on the handle turn the lever downward in the direction of the fixed multi-coupling half

**Step 5**  
Continue to rotate until the mechanical stop of the lever at approximately the 2 o'clock position

**Step 3**  
Continue to rotate until the safety lock automatically engages itself

CLICK!

**Step 6**  
Now the multi-coupling 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 rotating 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

ORDER CODE STRUCTURE						
42	02	08	08	01	C	27
SERIES NUMBER	NUMBER OF COUPLINGS	SIZE OF COUPLER	PORT SIZE	THREAD	SUFFIX	OPTIONAL NUMBER OF ELECTRICAL CONNECTIONS
<b>31</b> = DP2-9 <b>32</b> = DP4-9 <b>41</b> = DP2-13 <b>42</b> = DP4-13	<b>01</b> # OF COUPLINGS <b>02</b> # OF COUPLINGS <b>03</b> # OF COUPLINGS ETC.	<b>06</b> = 3/8 <b>08</b> = 1/2 <b>12</b> = 3/4 <b>16</b> = 1 <b>20</b> = 1 1/4 <b>24</b> = 1 1/2	<b>06</b> = 3/8 <b>08</b> = 1/2 <b>12</b> = 3/4 <b>16</b> = 1 <b>20</b> = 1 1/4 <b>24</b> = 1 1/2	<b>01</b> = NPT <b>04</b> = SAE	<b>FH</b> = FIX HALF <b>MH</b> = MOBILE HALF <b>C</b> = COMPLETE	<b>17</b> 1 ELECTRICAL CONNECTION 7 PRONGS <b>16</b> 1 ELECTRICAL CONNECTION 6 PRONGS <b>27</b> 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	FAP 30 1 1/2
31	DP2-9	2					
41	DP2-13		2				
32	DP4-9	4					
42	DP4-13		4				
36	DPJ-3	1	1				
61	DP2-15			2			
63	DP6AD	2			4		
71	DP2-17				2		
76	DP3GE			1	2		
SPECIALTY PLATES: LARGE DIAMETER COUPLERS							
78	SV2					1	1
78	BM3*						2

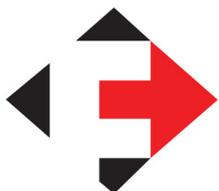
\*Electrical connector option available

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. Use the Stucchi ordering code system to create a coupling plate configuration for your application contact a Stucchi representative to discuss your application and a solution.

**Notes:** Plate capacities listed are the maximum number of couplers per plate. All plates can be made with fewer couplers. Electrical connectors can be added to any plates using 3/8 or 1/2 inch port spaces. Consult Stucchi USA for specific applications.



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