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
Technical Characteristics & Instructions for Use
GR Multi-Coupling Plate

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

To Disconnect:

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

**Step 7**
Continue to rotate upward 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.
To Connect:

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

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

To Disconnect:

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.

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

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.
Saturn Block

Main Applications
- Skid steers
- Excavators
- Mobile construction equipment
- Mini-excavators

Features & Options
- User-friendly relief system allows for easy connection/disconnection with residual pressure
- Drain the residual pressure before connection and disconnection, allowing the connection without pressure and without effort in order to reduce injury risk
- Equipped with ISO 16028 interchangeable size 1/2 male & female parts flat face. Drain line in the middle is 3/8 size male.
- Direct replacement for other connect under pressure systems
- Low cost field replacement couplers
- Modular design allows for optional size 5/8 or 3/4 body male & female for high flow circuits and 1/2 drain line

Technical Features & Options
- Interchangeability of couplings: equipped with ISO 16028 couplings size 1/2, 5/8, and 3/4 inch. Drain line is ISO 16028 size 3/8 or 1/2 inch male
- Couplings type: flat face
- Connection system: push to connect
- Disconnection system: pulling back the sleeve of the female coupling
- Connection with residual pressure: after draining the pressure with the knob
- Disconnection with residual pressure: after draining the pressure with the knob
- Threads available: 3/4 JIC for pressure lines, 3/8 SAE for drain line
- Threads on request: metric DIN, ORFS, SAE, BSP and others
- Surface treatment: CrIII zinc plated
- Seals: standard in NBR (Nitrile), POM
- Anti-extrusion rings: PTFE
**DESCRIPTION** | **SIZE** | **MAX. OPERATING PRESSURE COUPLED** | **MAX. RESIDUAL PRESSURE DURING CONNECTION** | **SPILLAGE**
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<tbody>
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<td>1/2</td>
<td>MPa</td>
<td>psi</td>
<td>MPa</td>
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<tr>
<td></td>
<td></td>
<td>35</td>
<td>5075</td>
<td>25</td>
</tr>
<tr>
<td>SATURN BLOCK 15</td>
<td>5/8</td>
<td>35</td>
<td>5075</td>
<td>25</td>
</tr>
<tr>
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<td>3/4</td>
<td>35</td>
<td>5075</td>
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*SPILLAGE IS AN INDICATIVE VALUE OF THE FLUID LOSS PER COUPLE-UNCouple CYCLE.*
Saturn Block: Size Diagram

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<th>DESCRIPTION</th>
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<th>UNIT</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>UP</th>
<th>DRAIN</th>
<th>DOWN</th>
<th>UNIT</th>
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Saturn Block: Order Codes

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<tr>
<th>DESCRIPTION</th>
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<th>BODY SIZE: COUPLER &amp; NIPPLE</th>
<th>DRAIN LINE SIZE</th>
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<tbody>
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<td>808800102</td>
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<td>SATURN BLOCK 15</td>
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<tr>
<td>SATURN BLOCK 17</td>
<td>808800105</td>
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<td>3/8</td>
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* USE “R” SUFFIX TO REVERSE POSITIONS OF COUPLER & NIPPLE IN THE SATURN BLOCK
Saturn Block: How to Relieve Pressure

How to Operate the Pressure Relief Valve on the Saturn Block
1. Pull red knob on pressure relief valve out
2. Pull red knob up/down to relieve pressure
3. Release red knob, allowing it return to starting position
4. Insert coupler/nipple into the Saturn Block

Saturn Block: Replacement Parts List

<table>
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<td>F. A13HD COUPLER</td>
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<td>M. A13HD NIPPLE</td>
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<td>F. A15HD COUPLER</td>
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<td>M. A15HD NIPPLE</td>
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<td>F. A17 COUPLER</td>
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<tr>
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<td>M. A9 NIPPLE DRAIN LINE</td>
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<td>M. A13 NIPPLE DRAIN LINE</td>
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<td>VALVE KIT</td>
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<td>SATURN VALVE RELIEF KIT *</td>
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* INCLUDED WITH 815700842 SATURN VALVE PRESSURE RELIEF KIT