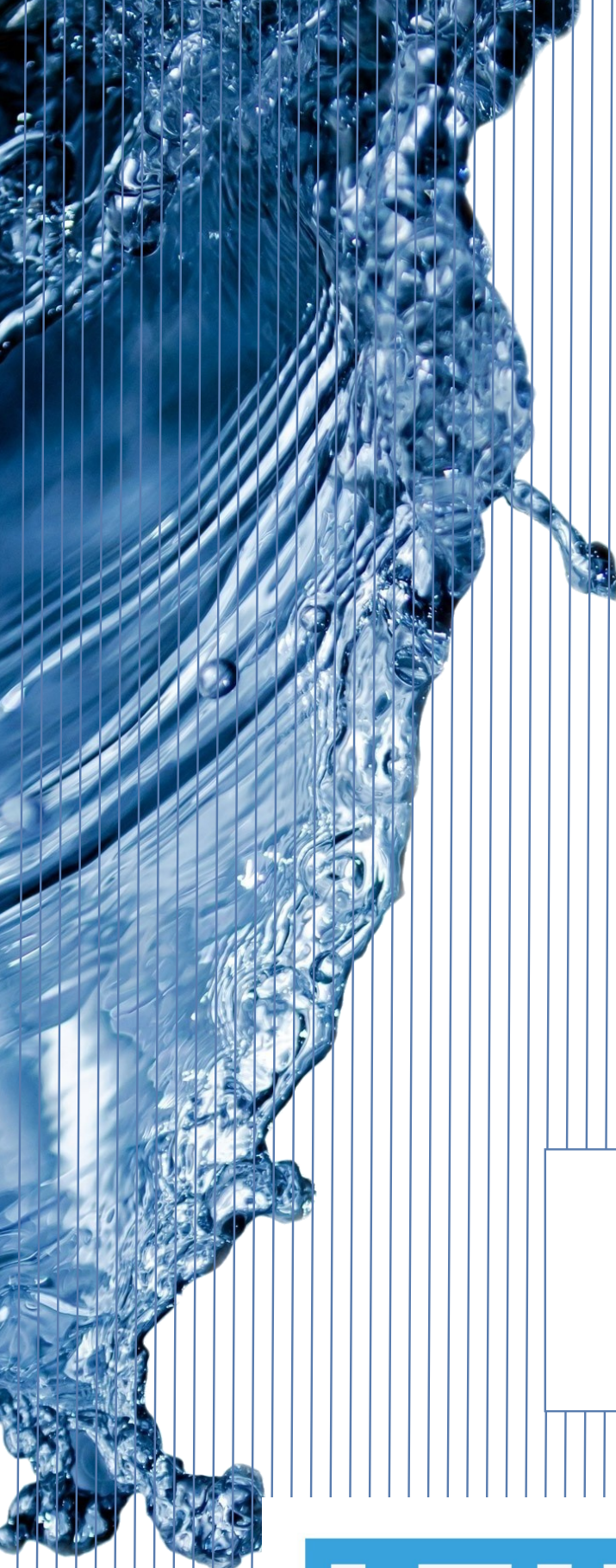




STUCCHI  
Quick Couplings  
Saturn Block



HYDRAULIC  
COMPONENTS  
& FLUID CONTAMINATION  
CONTROL



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## PERFORMANCES

| Size |          | Series/Size   | Max. flow suggested |       | Spillage* |
|------|----------|---------------|---------------------|-------|-----------|
| in   | mm (ISO) |               | l/min               | gpm   | ml        |
| 1/2  | 12,5     | SATURN 3 DN13 | 90                  | 23,85 | 0,02      |
| 5/8  | 16       | SATURN 3 DN15 | 148                 | 39,22 | 0,03      |
| 3/4  | 19       | SATURN 3 DN17 | 200                 | 53    | 0,03      |

| Size | Series/Size   | Max. operating pressure |      |      |      |        |      | Max. residual pressure |      |        |      |
|------|---------------|-------------------------|------|------|------|--------|------|------------------------|------|--------|------|
|      |               | Coupled                 |      | Male |      | Female |      | Male                   |      | Female |      |
| in   |               | MPa                     | psi  | MPa  | psi  | MPa    | psi  | MPa                    | psi  | MPa    | psi  |
| 1/2  | SATURN 3 DN13 | 35                      | 5075 | 33   | 4785 | 33     | 4785 | 25                     | 3625 | 25     | 3625 |
| 5/8  | SATURN 3 DN15 | 35                      | 5075 | 33   | 4785 | 33     | 4785 | 25                     | 3625 | 25     | 3625 |
| 3/4  | SATURN 3 DN17 | 35                      | 5075 | 33   | 4785 | 33     | 4785 | 25                     | 3625 | 25     | 3625 |

\* Spillage is an indicative value of the fluid loss during disconnection (according to ISO norm test method).

### Different possible configurations:

See specific table in the following page.

Saturn 3 can be configured with VEP, VP, VEP-HD cartridges upon request.

### Temperature range:

Seals in NBR (Nitrile): from -20 °C to +100 °C (from -4 °F to +212 °F).

Please read carefully Instructions and warnings for proper selection of the products.

### Tests:

The Saturn Block have been tested at impulse with max. operating pressure for 1.000.000 impulses according to ISO norm in connected position.



## WARNING

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

Connect under pressure products are suitable to be connected under residual (static) pressure.

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

Do not relieve pressure:

- When the attachment is not in the rest position
- During operation of the attachment (due to danger of unexpected movement of the attachment)

Connection with residual pressure (pressure trapped in the circuit) allowed with one side to drain.

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

Do not couple-uncouple with flow 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 working pressure of the port in use.

It is important to limit contamination in the circuit to avoid compromising the function of the internal valves.

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.

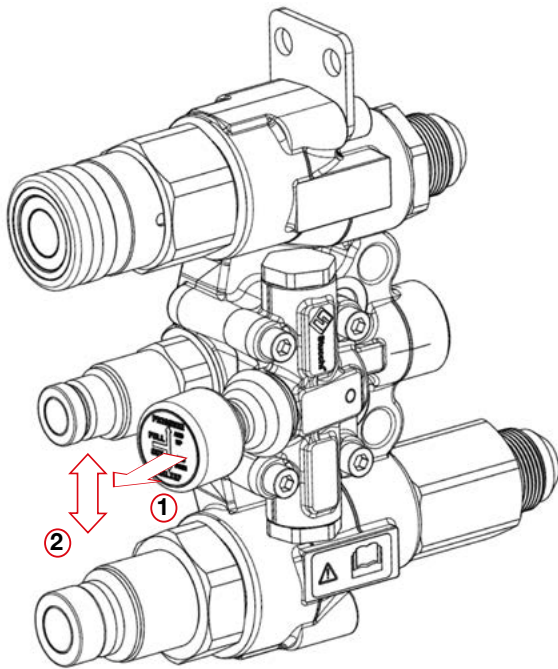
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**For specific, product-related, instructions, please contact Stucchi technical service.**

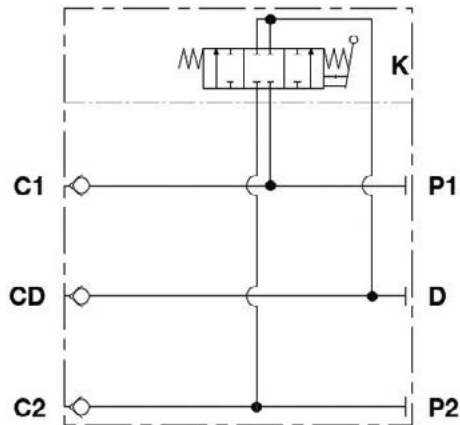
## HOW IT WORKS



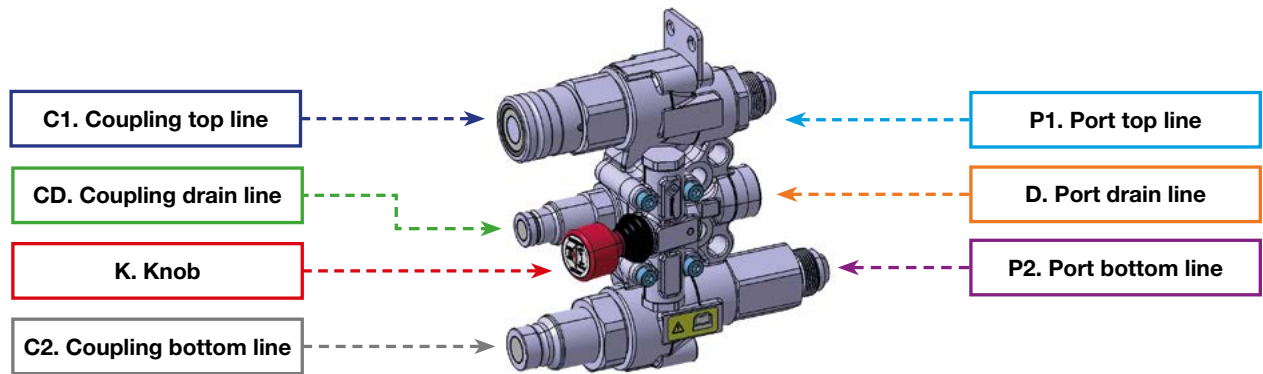
**To release the pressure:**

- ① Pull the lever
- + Push up to release the pressure on the upper line
- ② Push down to release the pressure on the lower line

## HYDRAULIC CIRCUIT

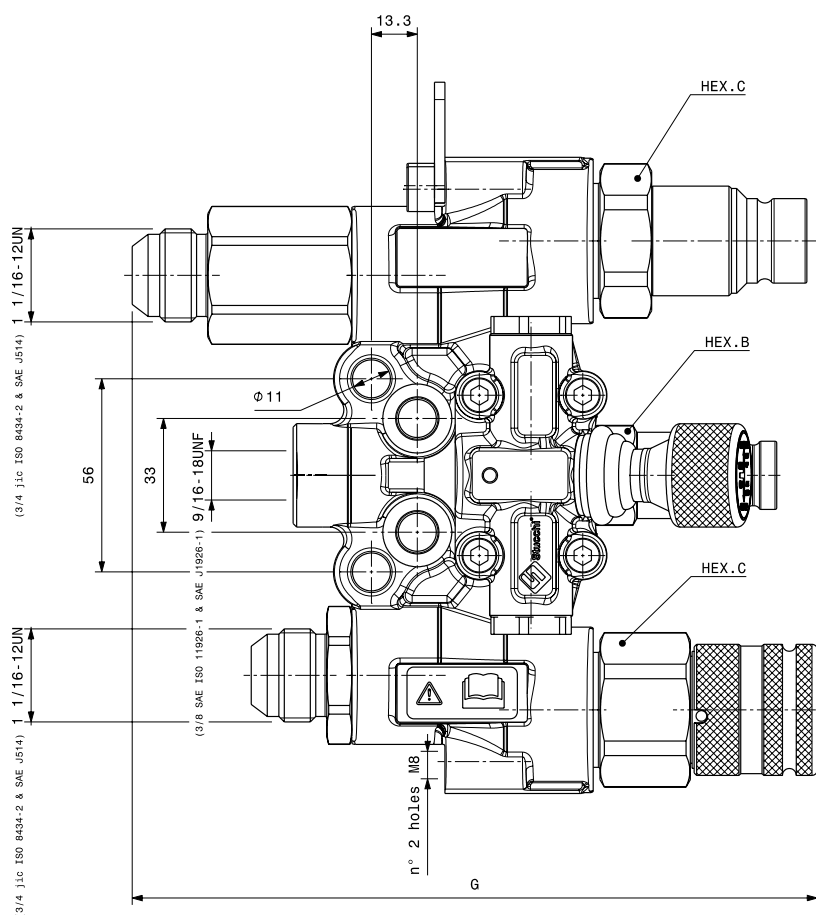
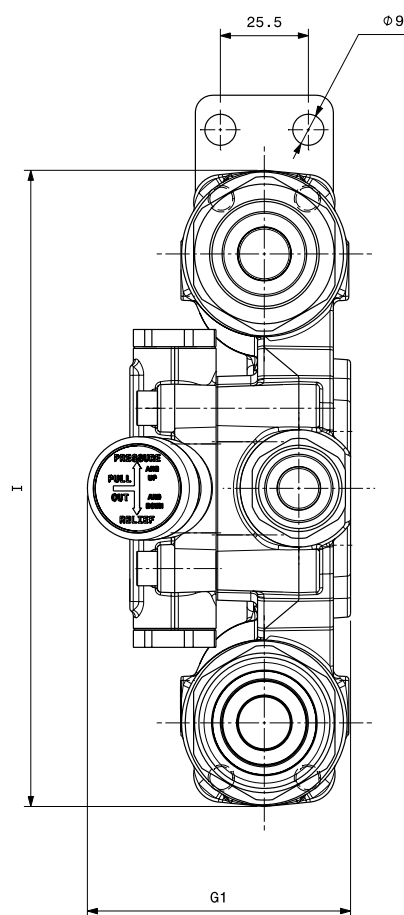


## HOW TO ORDER, PRODUCT DEFINITION



| Descriptive Code                         | Item Code | Lever Side: | C1. Coupling top line | CD. Coupling drain line | C2. Coupling bottom line | P1. Port top line        | P2. Port bottom line     |
|------------------------------------------|-----------|-------------|-----------------------|-------------------------|--------------------------|--------------------------|--------------------------|
| SATURN 3 MF A13-M A9                     | 808800102 | LEFT        | MALE DN13 1/2"        | MALE DN9 3/8"           | FEMALE DN13 1/2"         | 3/4" JIC (long adaptor)  | 3/4" JIC (short adaptor) |
| SATURN 3 MF A15-M A9                     | 808800103 | LEFT        | MALE DN15 5/8"        | MALE DN9 3/8"           | FEMALE DN15 5/8"         | 3/4" JIC (long adaptor)  | 3/4" JIC (short adaptor) |
| SATURN 3 MF A17-M A13                    | 808800104 | LEFT        | FEMALE DN17 3/4"      | MALE DN13 1/2"          | MALE DN17 3/4"           | 3/4" JIC (long adaptor)  | 3/4" JIC (short adaptor) |
| SATURN 3 MF A17-M A9                     | 808800105 | LEFT        | FEMALE DN17 3/4"      | MALE DN9 3/8"           | MALE DN17 3/4"           | 3/4" JIC (long adaptor)  | 3/4" JIC (short adaptor) |
| SATURN 3 LEFT MF A17-M A9-NO ADAPTERS    | 808800106 | RIGHT       | MALE DN17 3/4"        | MALE DN9 3/8"           | FEMALE DN17 3/4"         | 3/4" SAE                 | 3/4" SAE                 |
| SATURN 3 LEFT MF A13-PLUG-NO ADAPTERS    | 808800107 | RIGHT       | MALE DN13 1/2"        | PLUGGED                 | FEMALE DN13 1/2"         | 3/4" SAE                 | 3/4" SAE                 |
| SATURN 3 LEFT MF A13-M A9-SHORT ADAPTERS | 808800108 | RIGHT       | MALE DN13 1/2"        | MALE DN9 3/8"           | FEMALE DN13 1/2"         | 3/4" JIC (short adaptor) | 3/4" JIC (short adaptor) |
| SATURN 3 LEFT MF A13-M A9                | 808800121 | LEFT        | MALE DN13 1/2"        | MALE DN9 3/8"           | FEMALE DN13 1/2"         | 3/4" JIC (long adaptor)  | 3/4" JIC (short adaptor) |

## OVERALL DIMENSIONS



| Descriptive Code | Length  |      | Length  |      | Length  |      | Hex    |      | Hex    |      | Weight |       |
|------------------|---------|------|---------|------|---------|------|--------|------|--------|------|--------|-------|
|                  | mm      | in   | mm      | in   | mm      | in   | mm     | in   | mm     | in   | kg     | lb    |
| SATURN 3 DN13    | G 196,8 | 7,75 | G1 76,0 | 2,99 | I 184,0 | 7,24 | C 41,0 | 1,61 | B 27,0 | 1,06 | 4,31   | 9,51  |
| SATURN 3 DN15    | G 203,7 | 7,75 | G1 76,0 | 2,99 | I 184,0 | 7,24 | C 41,0 | 1,61 | B 27,0 | 1,06 | 4,44   | 9,78  |
| SATURN 3 DN17    | G 224,0 | 7,75 | G1 76,0 | 2,99 | I 184,0 | 7,24 | C 46,0 | 1,81 | B 32,0 | 1,26 | 5,05   | 11,14 |

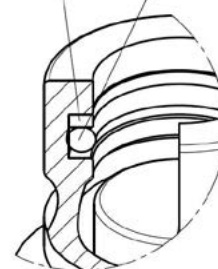
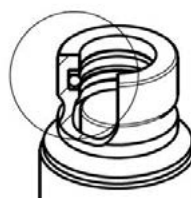


## SPARE KIT SEAL FOR MALE

| Repair kit / OR+BK |                   |             |
|--------------------|-------------------|-------------|
| Body Size          | Description       | Part Number |
| 3/8"               | M A9 (drain line) | 815700337   |
| 1/2"               | MALE DIN13        | 815700339   |
| 5/8"               | MALE DIN15        | 815700341   |
| 3/4"               | MALE DIN17        | 815700343   |

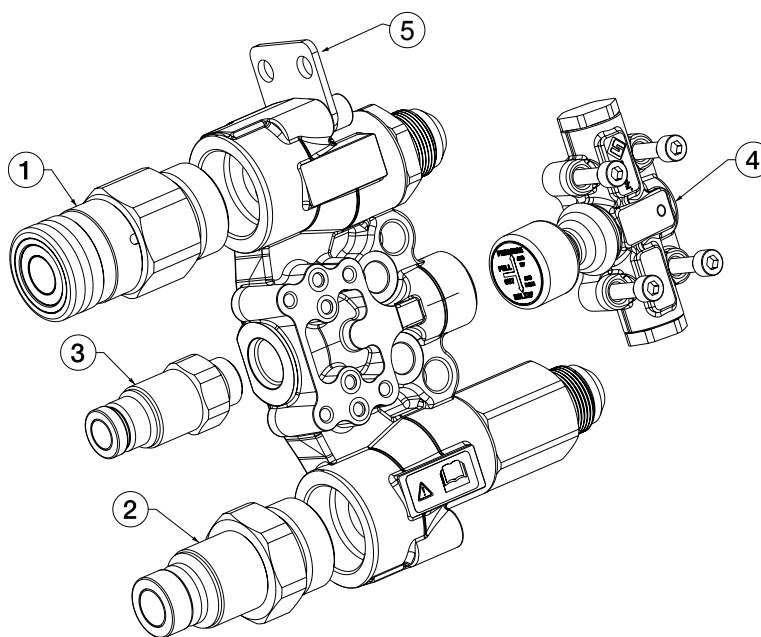
Backup ring  
(Teflon®)

O-ring



O-Ring in NBR  
Backup in Teflon®

## REPAIR KIT FOR SATURN SERIES



| Repair kit |                                           |             |        |
|------------|-------------------------------------------|-------------|--------|
| Body Size  | Descriptive Code                          | Part Number | Legend |
| 1/2"       | CARTRIDGE F A13HDSP 1 ORFS (DIN13)        | 808313038   | 1      |
| 1/2"       | CARTRIDGE M A13HD 1 ORFS (DIN13)          | 808313001   | 2      |
| 5/8"       | CARTRIDGE F A15HDS 1 ORFS (DIN15)         | 808313032   | 1      |
| 5/8"       | CARTRIDGE M A15HD 1 ORFS (DIN15)          | 808313003   | 2      |
| 3/4"       | CARTRIDGE F A17 1 ORFS (DIN17)            | 801313010   | 1      |
| 3/4"       | CARTRIDGE M A17 1 ORFS (DIN17)            | 801313011   | 2      |
| 3/8"       | CARTRIDGE M A9 1/2 SAE EXT                | 801304033   | 3      |
| 1/2"       | CARTRIDGE M A13RN 1/2 SAE EXT             | 801304049   | 3      |
| -          | CARTRIDGE REPAIR KIT VALVE GROUP          | 815700866   | 4      |
| -          | SPARE KIT BRACKET AND SCREWS FOR SATURN 3 | 815700865   | 5      |

Male or Female coupling can be mounted indifferently either on the top or bottom port





## PERFORMANCES

| Size |          | Series/Size   | Max. flow suggested |       | Spillage* |
|------|----------|---------------|---------------------|-------|-----------|
| in   | mm (ISO) |               | l/min               | gpm   | ml        |
| 1/2  | 12,5     | SATURN 5 DN13 | 90                  | 23,85 | 0,02      |
| 3/4  | 19       | SATURN 5 DN17 | 200                 | 53    | 0,03      |

| Size | Series/Size   | Max. operating pressure |      |      |      |        |      | Max. residual pressure |      |        |      |
|------|---------------|-------------------------|------|------|------|--------|------|------------------------|------|--------|------|
|      |               | Coupled                 |      | Male |      | Female |      | Male                   |      | Female |      |
| in   |               | MPa                     | psi  | MPa  | psi  | MPa    | psi  | MPa                    | psi  | MPa    | psi  |
| 1/2  | SATURN 5 DN13 | 35                      | 5075 | 33   | 4785 | 33     | 4785 | 25                     | 3625 | 25     | 3625 |
| 3/4  | SATURN 5 DN17 | 35                      | 5075 | 33   | 4785 | 33     | 4785 | 25                     | 3625 | 25     | 3625 |

\* Spillage is an indicative value of the fluid loss during disconnection (according to ISO norm test method).

### Different possible configurations:

See specific table in the following page.

Saturn 5 can be configured with VEP, VP, VEP-HD cartridges upon request.

### Temperature range:

Seals in NBR (Nitrile): from -20 °C to +100 °C (from -4 °F to +212 °F).

Please read carefully Instructions and warnings for proper selection of the products.

### Tests:

The Saturn Block have been tested at impulse with max. operating pressure for 1.000.000 impulses according to ISO norm in connected position.



## WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects. Connect under pressure products are suitable to be connected under residual (static) pressure.

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

Do not relieve pressure:

- When the attachment is not in the rest position
- During operation of the attachment (due to danger of unexpected movement of the attachment)

Connection with residual pressure (pressure trapped in the circuit) allowed with one side to drain.

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

Do not couple-uncouple with flow 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 working pressure of the port in use.

It is important to limit contamination in the circuit to avoid compromising the function of the internal valves.

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.

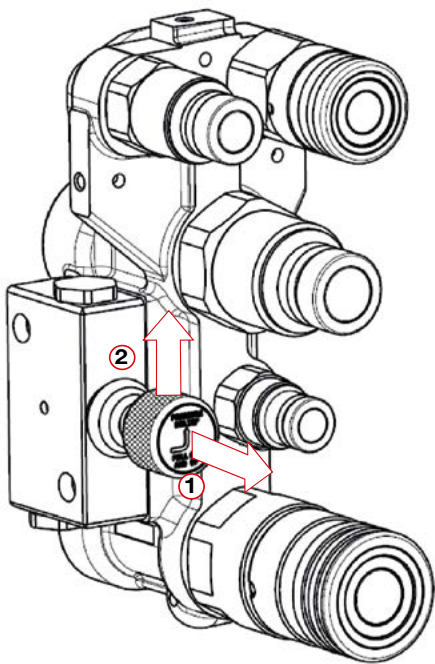
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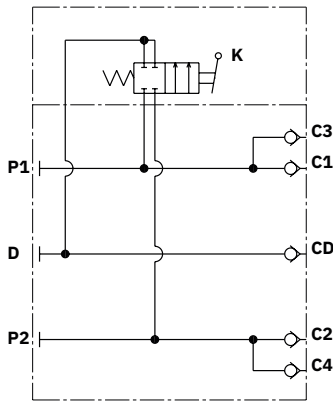
HOW IT WORKS



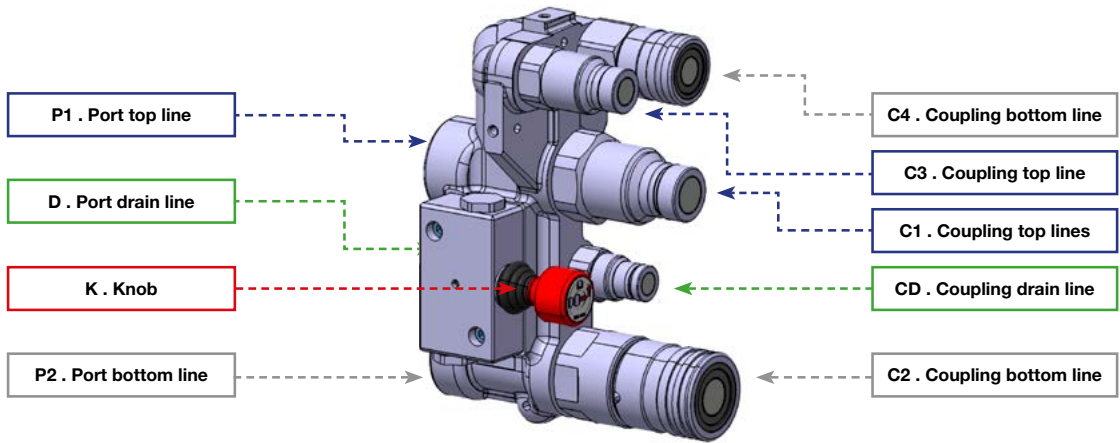
To release the pressure:

- 1 Pull the lever
- + 2 Push up to release the pressure in all the lines

HYDRAULIC CIRCUIT



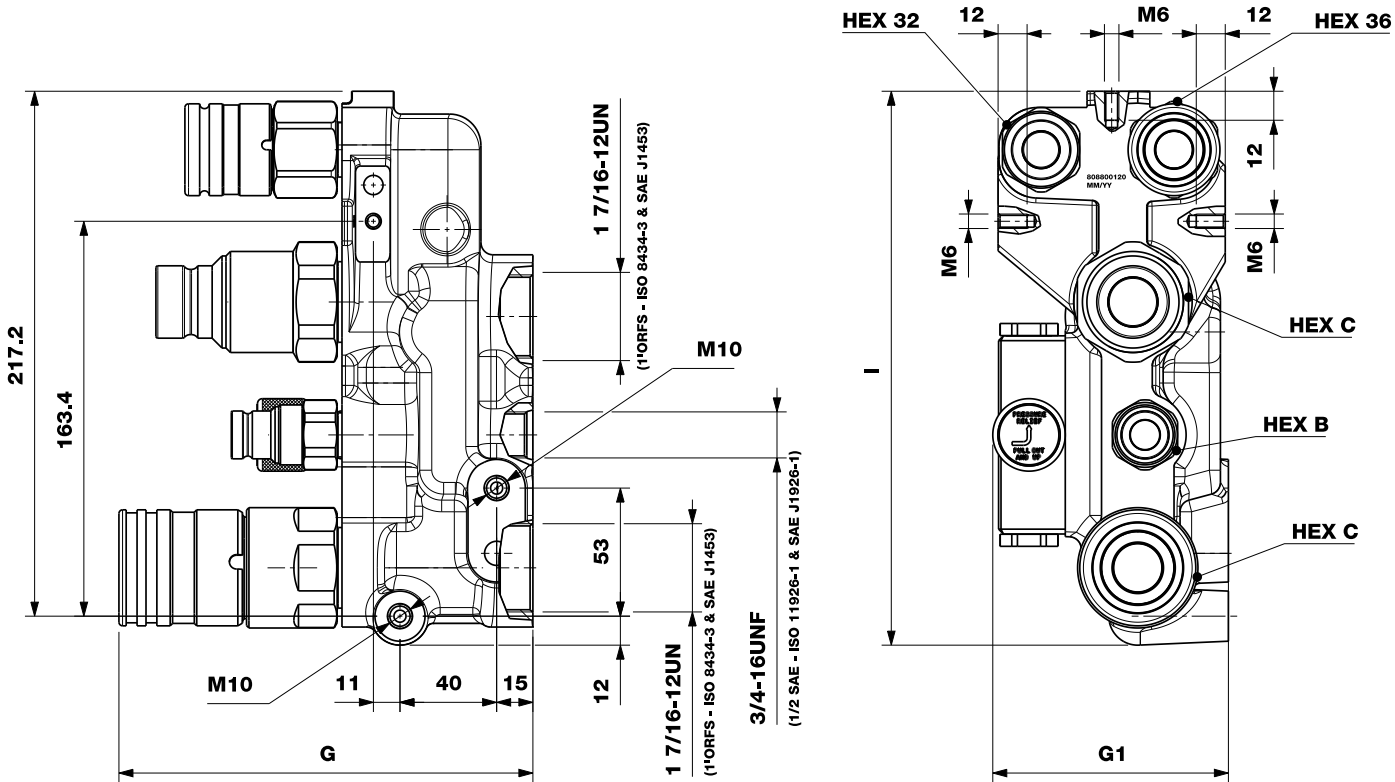
HOW TO ORDER, PRODUCT DEFINITION



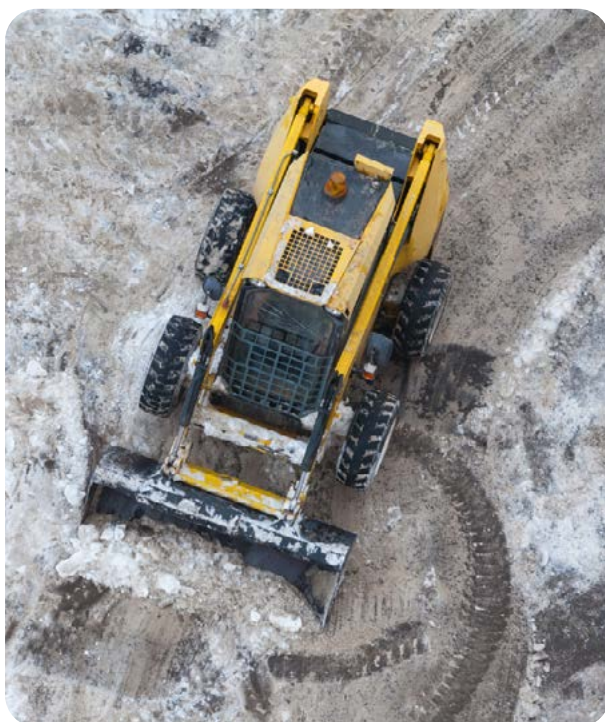
| Descriptive Code            | Item Code | C1. Coupling top line | C2. Coupling bottom line | C3. Coupling top line | C4. Coupling bottom line | CD. Coupling drain line |
|-----------------------------|-----------|-----------------------|--------------------------|-----------------------|--------------------------|-------------------------|
| SATURN 5 MF A17-MF A13-M A9 | 808800120 | Male 3/4              | Female 3/4               | Male 1/2              | Female 1/2               | Male 3/8                |

CASTING

OVERALL DIMENSIONS

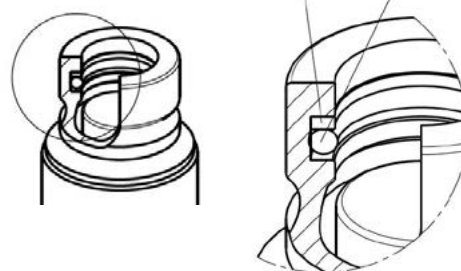
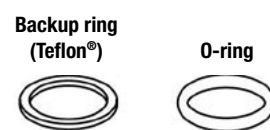


| Descriptive Code            | Length |       | Length |    | Length |      | Hex |       | Hex  |    | Weight |      |   |      |      |      |       |
|-----------------------------|--------|-------|--------|----|--------|------|-----|-------|------|----|--------|------|---|------|------|------|-------|
|                             | mm     | in    | mm     | in | mm     | in   | mm  | in    | mm   | in | kg     | lb   |   |      |      |      |       |
| SATURN 5 MF A17-MF A13-M A9 | G      | 171,3 | 6,74   | G1 | 97,5   | 3,84 | I   | 229,2 | 9,02 | C  | 46     | 1,81 | B | 27,0 | 1,06 | 7,84 | 17,28 |



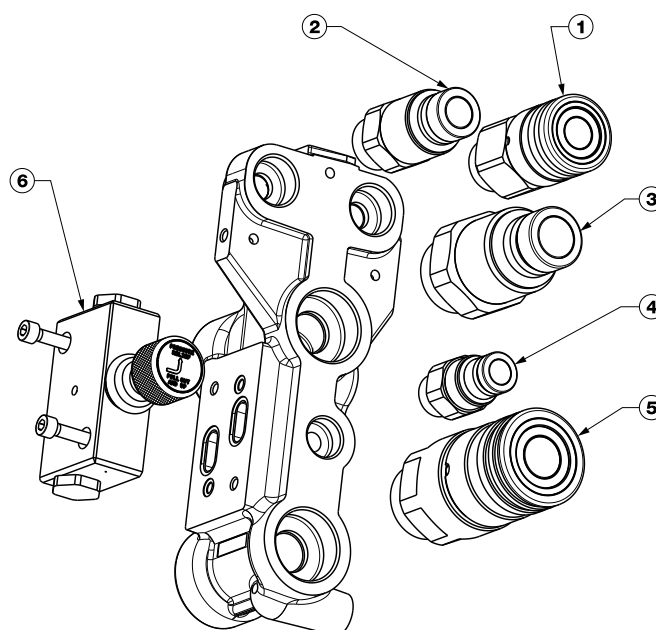
## SPARE KIT SEAL FOR MALE

| Repair kit / OR+BK |                   |             |
|--------------------|-------------------|-------------|
| Body Size          | Description       | Part Number |
| 3/8"               | M A9 (drain line) | 815700337   |
| 1/2"               | MALE DIN13        | 815700339   |
| 3/4"               | MALE DIN17        | 815700343   |



O-Ring in NBR  
BackUp in Teflon®

## REPAIR KIT FOR SATURN HF SERIES



| Repair kit    |                                 |                  |        |
|---------------|---------------------------------|------------------|--------|
| Coupling Size | Descriptive Code                | Part Number      | Legend |
| 1/2"          | F A13HDS 5/8 ORFS               | <b>808313042</b> | 1      |
| 1/2"          | M A13HD 5/8 ORFS                | <b>808313037</b> | 2      |
| 3/4"          | M A17 1 ORFS                    | <b>801313011</b> | 3      |
| 3/8"          | M AS9 1/2 ORFS (drain line)     | <b>806613001</b> | 4      |
| 3/4"          | F A17 1 ORFS                    | <b>801313010</b> | 5      |
| na            | REPAIR KIT VALVE GROUP SATURN 5 | <b>815701278</b> | 6      |



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