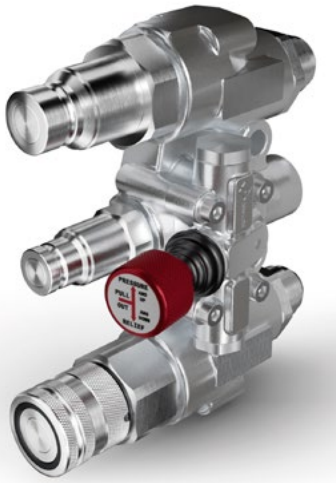
# SATURN3SERIES

INTERCHANGE > **ISO 16028**

Stucchi®



Easy CUP



## TECHNICAL FEATURES AND OPTIONS

**Interchange**
ISO 16028

**Sealing description**
Nitrile NBR

**Connection system**
Push

**Available sizes**
from 1/2" to 3/4"

**Material /treatment**
Carbon steel /Cr3

**Available threads**
SAE - JIC

**Operating pressure**
Up to 350 bar

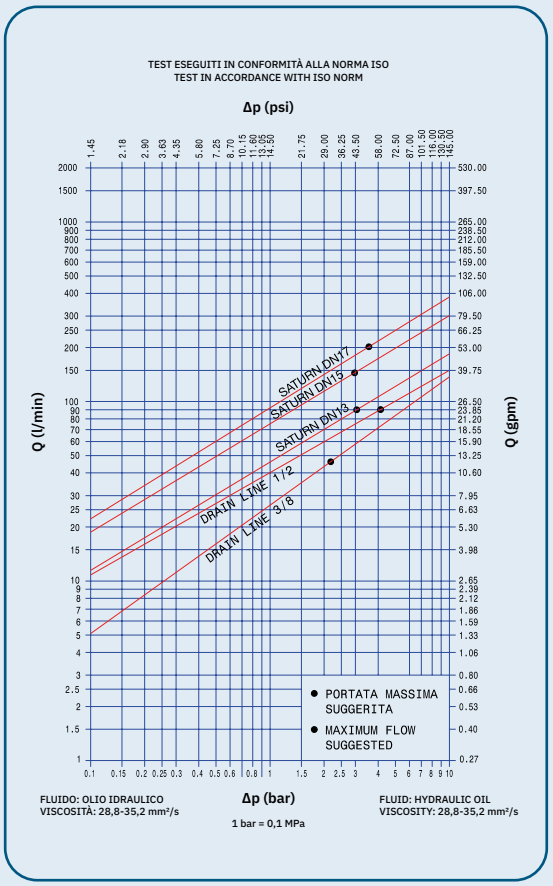
**Locking mechanism**
Locking ball + Safety Lock

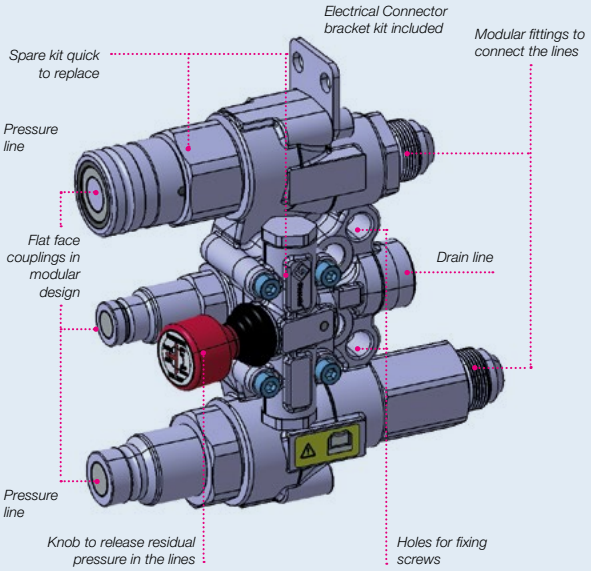
**Flow rate**
Up to 200 l/min

**Temperature (°C)**
-20°C / +100°C

**Valving style**
Flat face

**Connection under pressure**
Connection: One side - Both sides if use with APM/ AHD (see Benefits). Disconnection: Allowed (see Benefits).




## BENEFITS

- Stucchi design pressure relief system completely independent of the connections prevents accidental release of pressure during the operation.
- User friendly pressure relief system (knob) allows for easy connection and disconnection with residual pressure.
- Please use in conjunction with APM series or AHD series to be able to connect with the matching side (attachment) under residual pressure.
- Low cost field replacement spare kits for couplers and valve.
- Flat face is easy to clean, reducing the inclusion of contamination to the hydraulic circuit.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection.
- Internal valve design creates minimal pressure drop, maintaining circuit efficiency in the system
- Good resistance to pressure impulses.
- Compact slim and flexible design (possible to use different sizes of couplings).
- Safe and simple to use.
- Bracket for electrical connector (kit plate + screw included in the box).

## HOW TO USE

- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- Drain the residual pressure pulling the knob out and up to drain the residual pressure of upper coupling, down to drain the residual pressure of lower coupling.
- To connect push the male half towards the female half or viceversa.
- After connection turn the external sleeve to engage safety lock function, to prevent accidental disconnection.
- To disconnect pull back the sleeve of the female
- In case of residual pressure, before uncoupling drain the residual pressure pulling the knob out and up to drain the residual pressure of upper coupling, down to drain the residual pressure of lower coupling.

## MAIN APPLICATIONS



## 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 configurated 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.

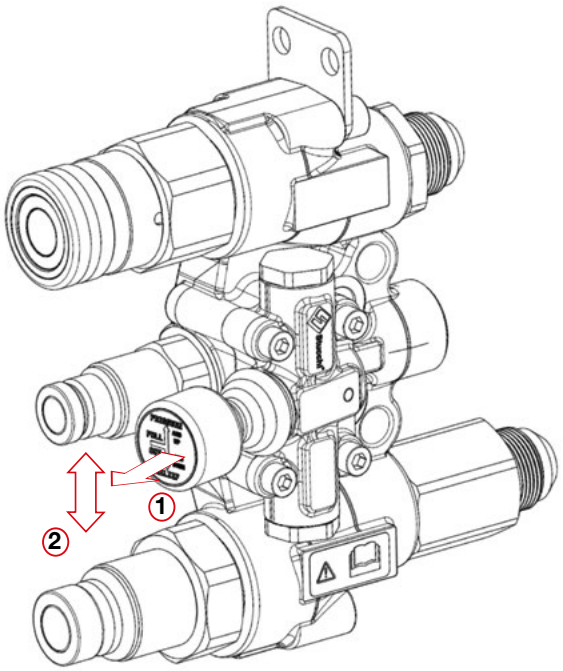
**Tests:**
Qualification tests have been performed with hydraulic oil using couplings with NBR (Nitrile) seals.
The max. operating pressure have been verified for 1.000.000 impulses according to ISO norm test method.

## ⚠ 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.
The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.
**It is mandatory to carefully read and closely follow the instructions before selecting or using any Stucchi products.**
**Always refer to the version uploaded in the Instructions and warning section of stucchigroup.com website for the latest release.**
**For specific, product-related, instructions, please contact Stucchi technical service.**

## HOW IT WORKS



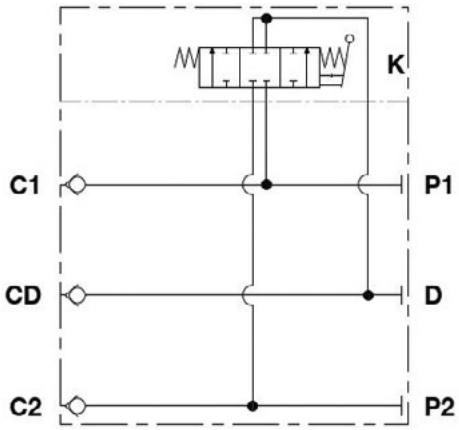

**To release the pressure:**

1. Pull the lever

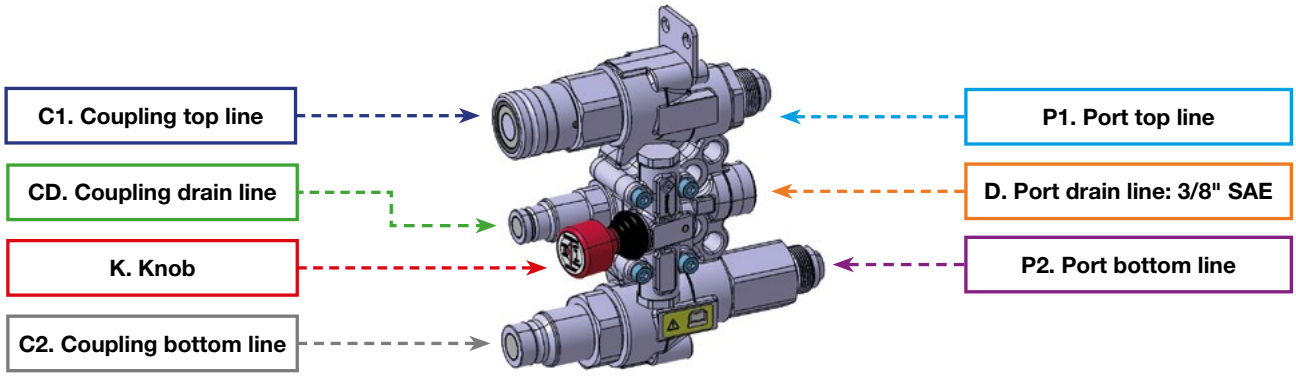
+

2. Push up to release the pressure on the upper line
   Push down to release the pressure on the lower line

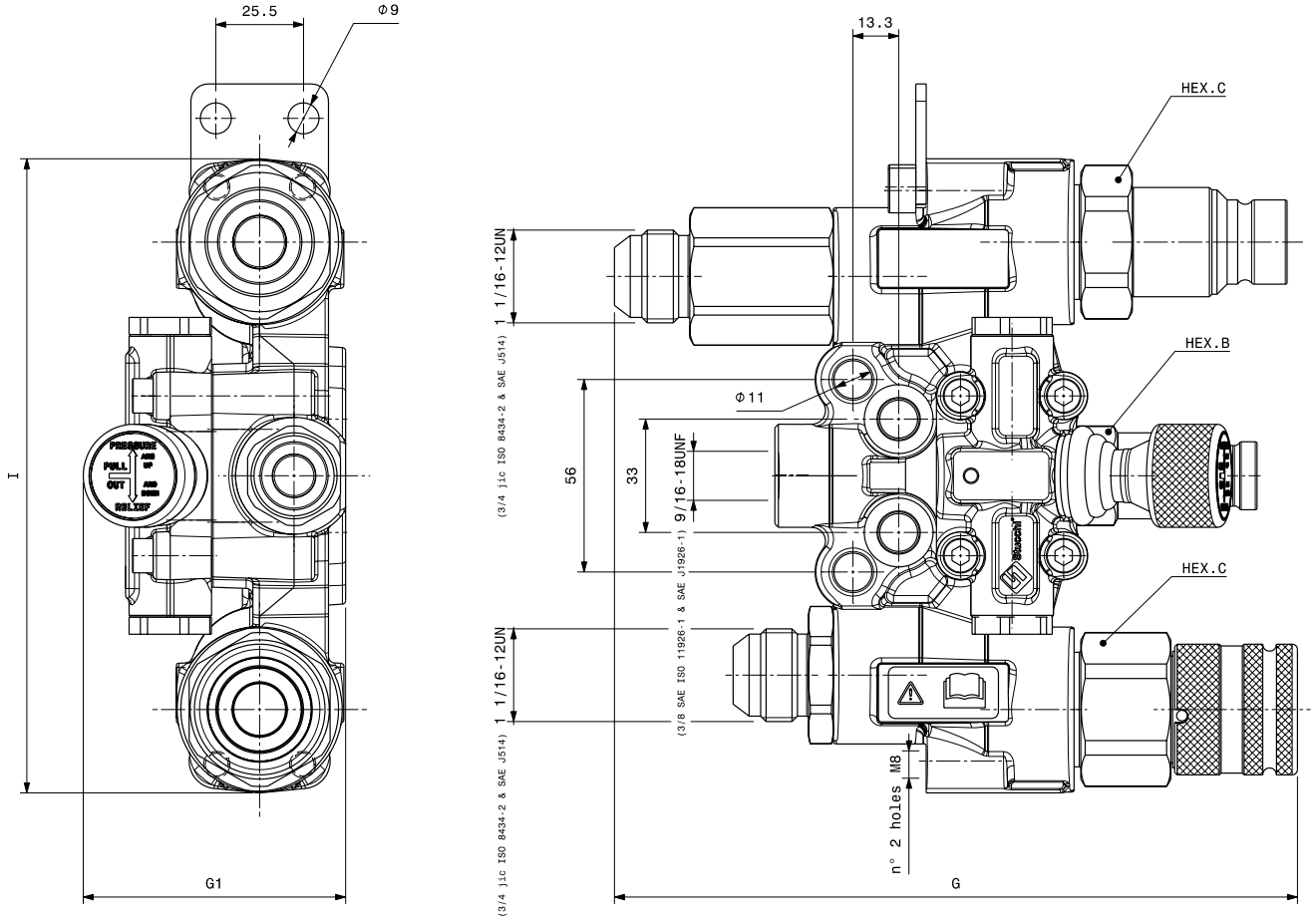
## HYDRAULIC CIRCUIT




## 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 RIGHT 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 RIGHT 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 RIGHT 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 RIGHT 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) |
| SATURN 3 RIGHT FM A13-M A9-NO ADAPTERS | **808800128** | RIGHT | FEMALE DN13 | 1/2" | MALE DN9 | 3/8" | MALE DN13 | 1/2" | 3/4" SAE | 3/4" SAE |
| SATURN 3 RIGHT MF A13-M A9-NO ADAPTERS | **808800129** | RIGHT | MALE DN13 | 1/2" | MALE DN9 | 3/8" | FEMALE DN13 | 1/2" | 3/4" SAE | 3/4" SAE |

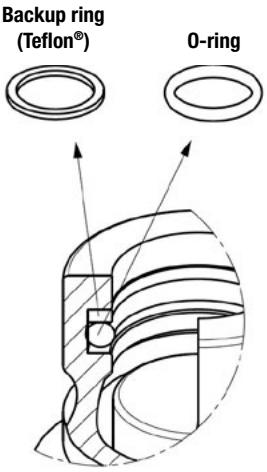



| Descriptive Code | Length | | | Length | | | Length | | | Hex | | | Hex | | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | in | | mm | in | | mm | in | | mm | in | | mm | in | kg | lb |
| **SATURN 3 DN13** | G | 196,8 | 7,75 | G1 | 76,0 | 2,99 | I | 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 |



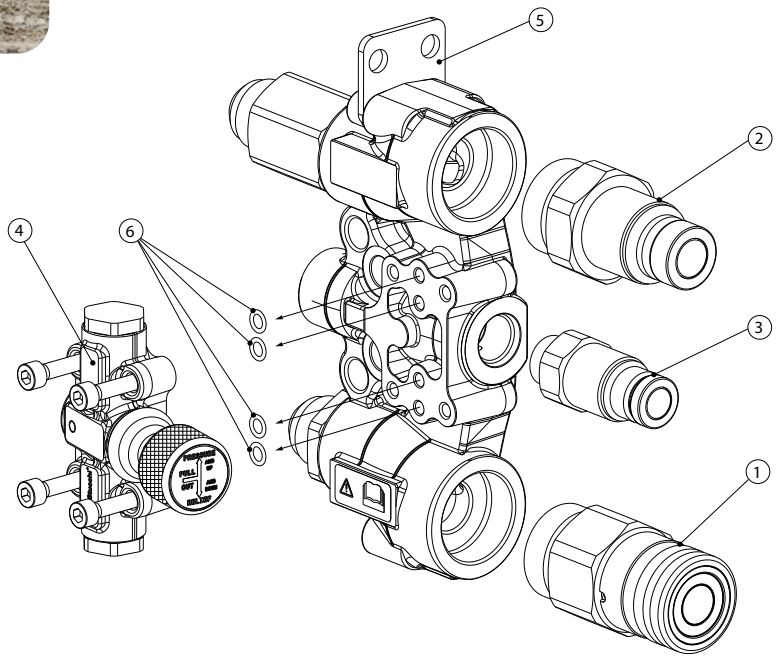
## SPARE KIT SEAL FOR MALE

| 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 |




O-Ring in NBR
BackUp in Teflon®

## REPAIR KIT FOR SATURN SERIES




| Repair kit | | | | |
|---|---|---|---|---|
| Body Size | Descriptive Code | Part Number | A NEW | 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 | 812513026 | 1 |
| 3/4” | CARTRIDGE M A17 1 ORFS (DIN17) | 801313011 | 812513027 | 2 |
| 3/8” | CARTRIDGE M A9 1/2 SAE EXT | 812504023 | | 3 |
| 1/2” | CARTRIDGE M A13RN 1/2 SAE EXT | 812504007 | | 3 |
| - | CARTRIDGE REPAIR KIT VALVE GROUP | 815700866 | | 4 |
| - | SPARE KIT BRACKET AND SCREWS FOR SATURN 3 | 815700865 | | 5 |
| - | SPARE KIT SEALS FOR VALVE SATURN 3 | 815701321 | | 6 |

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

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