















## Technical specifications and options

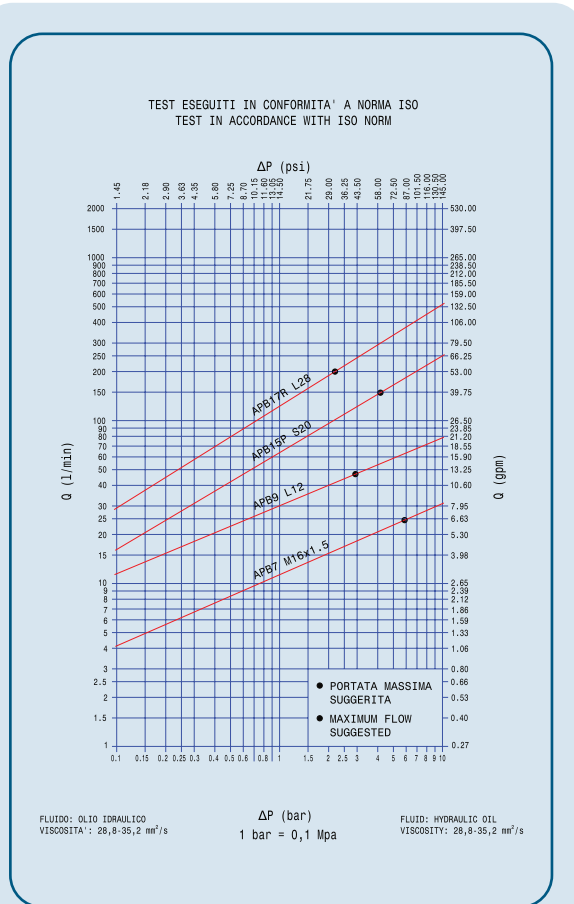
|  |  |   |
|--|--|---|
|  <b>Interchange</b><br>ISO 16028                   |  <b>Sealing description</b><br>Nitrile NBR          |  <b>Connection system</b><br>Push-Pull   |
|  <b>Available sizes</b><br>1/4", 3/8", 5/8", 3/4" |  <b>Material/treatment</b><br>Carbon steel / Zn-Ni |  <b>Available threads</b><br>METRIC   |
|  <b>Operating pressure</b><br>Up to 250 bar      |  <b>Locking mechanism</b><br>Locking ball system  |  <b>Flow rate</b><br>Up to 200 l/min   |
|  <b>Temperature</b><br>-20°C / +100°C            |  <b>Valving style</b><br>Flat face                |  <b>Connection under pressure</b><br>Connection: Allowed<br>Disconnection: Allowed |

## Benefits

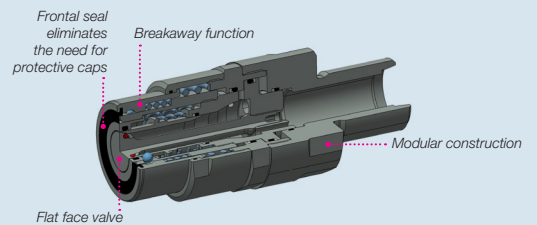
- Developed according to Power Beyond regulations: ISO17567:2020 (Flow class 2).
- Patented front seal prevents dirt particles from entering the circuit, eliminating the need for protective caps.
- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- Breakaway function to avoid damages of the hydraulic connections in case of strong axial force during unintended disconnection.
- P line provided with a patented locking pin system that prevents the connection in case of a pressure higher than 6 bar inside the circuit (prevents the operator from connecting if the tractor engine is running).
- P line provided with pressure release valve system allows an easy connection with internal residual pressure (lower than 6 bar).
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection.
- The modular design allows flexibility with a wide range of configurations.
- Zn-Ni plating ensures high resistance to corrosion.
- Good resistance to pressure impulses.
- Safe and simple to use.

## How to use

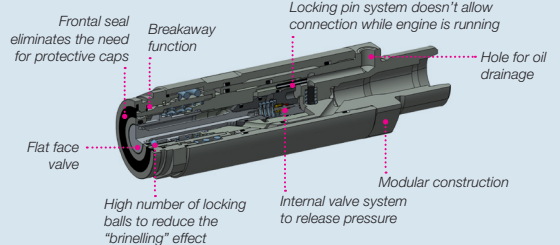
- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- To connect push the male half towards the female half or vice versa.
- To disconnect pull back the male coupling.



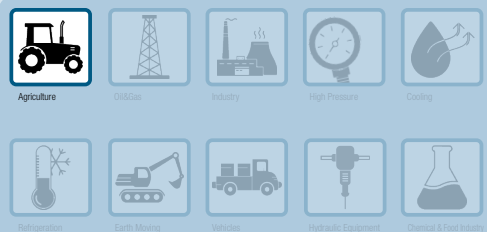
### R Return (APB17R) - D Drain (APB9) - LS Load Sensing (APB7)



### P Pressure line (APB15P)



## MAIN APPLICATIONS



## Performances

| Size | ISO Size | Series | Max. flow suggested |       | Connect force |      | Disconnect force |           | Spillage* |
|------|----------|--------|---------------------|-------|---------------|------|------------------|-----------|-----------|
|      |          |        | l/min               | GPM   | N             | lbf  | N                | lbf       |           |
| 1/4" | 6,3      | APB7   | 24                  | 6,34  | 230           | 51,7 | 110-150          | 24,7-33,7 | 0,02      |
| 3/8" | 10,0     | APB9   | 46                  | 12,15 | 230           | 51,7 | 180-240          | 40,5-54   | 0,035     |
| 5/8" | 16,0     | APB15P | 148                 | 39,10 | 280           | 62,9 | 300-400          | 67,5-89,9 | 0,1       |
| 3/4" | 19,0     | APB17R | 200                 | 52,83 | 300           | 67,4 | 230-300          | 51,7-67,5 | 0,15      |

| Size | Series   | Max. operating pressure |     |        |     | Burst pressure |     |        |     |       |
|------|----------|-------------------------|-----|--------|-----|----------------|-----|--------|-----|-------|
|      |          | Coupled                 |     | Female |     | Coupled        |     | Female |     |       |
| in   | mm (ISO) | MPa                     | psi | MPa    | psi | MPa            | psi | MPa    | psi |       |
| 1/4" | 6,3      | APB7                    | 25  | 3625   | 25  | 3625           | 100 | 14500  | 100 | 14500 |
| 3/8" | 10,0     | APB9                    | 25  | 3625   | 25  | 3625           | 100 | 14500  | 100 | 14500 |
| 5/8" | 16,0     | APB15P                  | 25  | 3625   | 25  | 3625           | 100 | 14500  | 100 | 14500 |
| 3/4" | 19,0     | APB17R                  | 21  | 3045   | 21  | 3045           | 100 | 14500  | 100 | 14500 |

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

### Temperature range:

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

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

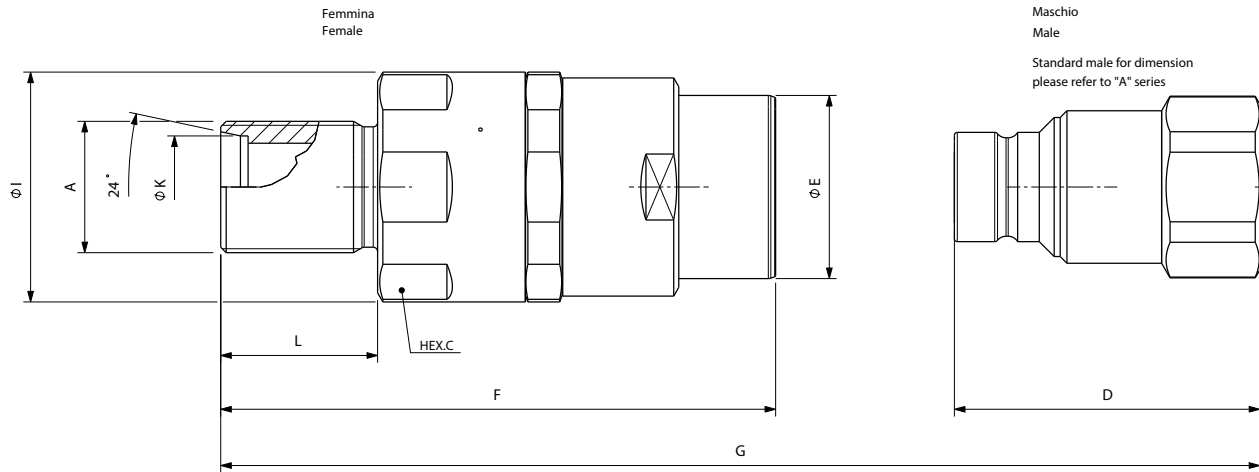
### Tests performed:

The couplings have been tested according to ISO norm.

The couplings coupled have been tested with the male "A" series at max. operating pressure for 1.000.000 impulse cycles.

The couplings uncoupled have been tested at max. operating pressure for 100.000 impulse cycles.

## Overall dimensions



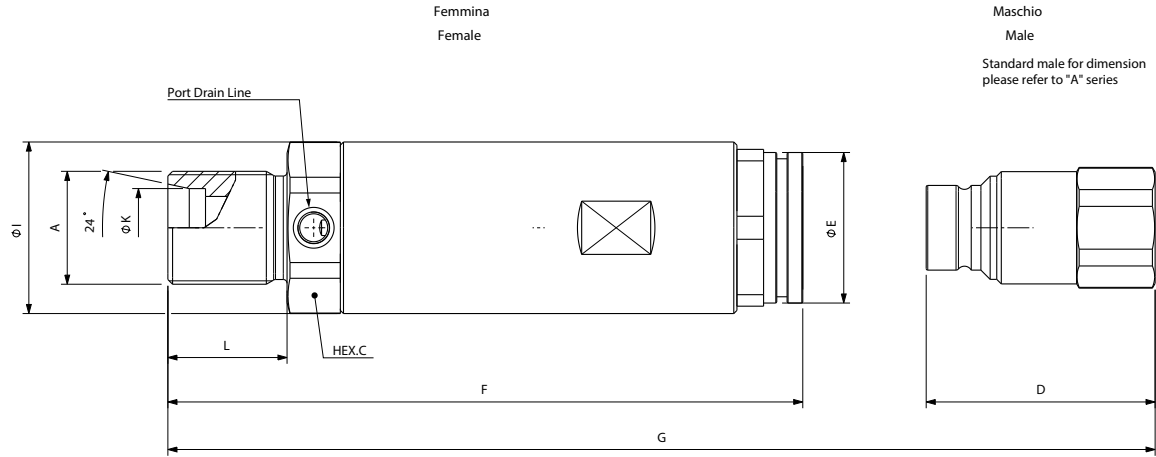
## Port description: MALE THREAD SERIES -24° CONE BULKHEAD (ISO 8434-1 & DIN 2353)

| BODY SIZE | Description            | Part Number      | ISO DN | Port (A) | Overall length |            | Length     |    | Wrench Flat |      | Diameter |      | Diameter |    | Diameter |      | Length |      | Weight |    |      |      |   |      |      |      |      |
|-----------|------------------------|------------------|--------|----------|----------------|------------|------------|----|-------------|------|----------|------|----------|----|----------|------|--------|------|--------|----|------|------|---|------|------|------|------|
|           |                        |                  |        |          | mm             | in         | mm         | in | mm          | in   | mm       | in   | mm       | in | mm       | in   | mm     | in   | mm     | in | kg   | lb   |   |      |      |      |      |
| 3/8"      | F APB9 L12 SCHOTT 36   | Female 812810000 | 10     | M18X1,5  | G              | (F+D)-18,3 | (F+D)-0,72 | F  | 115,8       | 4,56 | C        | 36,0 | 1,42     | I  | 39,8     | 1,57 | E      | 31,6 | 1,24   | K  | 12,2 | 0,48 | L | 36,0 | 1,42 | 0,53 | 1,17 |
| 3/4"      | F APB17R L28 SCHOTT 43 | Female 812810008 | 19     | M36X2    | G              | (F+D)-26,4 | (F+D)-1,04 | F  | 152,1       | 5,99 | C        | 60,0 | 2,36     | I  | 63,0     | 2,48 | E      | 50,2 | 1,98   | K  | 28,2 | 1,11 | L | 43,0 | 1,69 | 1,83 | 4,03 |
| 3/4"      | F APB17R L22 SCHOTT 34 | Female 812810010 | 19     | M30X2    | G              | (F+D)-26,4 | (F+D)-1,04 | F  | 143,1       | 5,63 | C        | 60,0 | 2,36     | I  | 63,0     | 2,48 | E      | 50,2 | 1,98   | K  | 22,2 | 0,87 | L | 34,0 | 1,34 | 1,94 | 4,01 |

## Port description: MALE THREAD METRIC (ISO 6149-2)

| BODY SIZE | Description              | Part Number      | ISO DN | Port (A) | Overall length |            | Length     |    | Wrench Flat |      | Diameter |      | Diameter |    | Length |      | Weight |      |      |   |      |      |      |      |
|-----------|--------------------------|------------------|--------|----------|----------------|------------|------------|----|-------------|------|----------|------|----------|----|--------|------|--------|------|------|---|------|------|------|------|
|           |                          |                  |        |          | mm             | in         | mm         | in | mm          | in   | mm       | in   | mm       | in | mm     | in   | kg     | lb   |      |   |      |      |      |      |
| 1/4"      | F APB7 M16X1,5 ISO6149-2 | Female 812815002 | 6,3    | M16X1,5  | G              | (F+D)-13,7 | (F+D)-0,53 | F  | 82,7        | 3,26 | C        | 32,0 | 1,26     | I  | 35,8   | 1,41 | E      | 28,5 | 1,12 | L | 12,5 | 0,49 | 0,41 | 0,90 |

## Overall dimensions

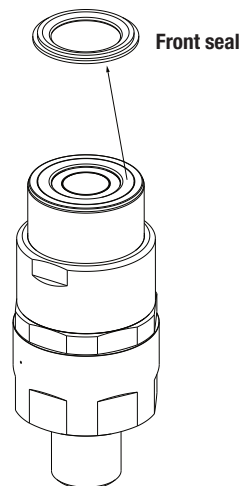


## Port description: MALE THREAD SERIES -24° CONE BULKHEAD (ISO 8434-1 & DIN 2353)

| BODY SIZE | Description            | Part Number      | ISO DN | Port (A) | Port of drain line | G | Overall Length |            | Length  |      | Wrench Flat |      | Diameter |      | Diameter |      | Diameter |      | Length |      | Weight |      |
|-----------|------------------------|------------------|--------|----------|--------------------|---|----------------|------------|---------|------|-------------|------|----------|------|----------|------|----------|------|--------|------|--------|------|
|           |                        |                  |        |          |                    |   | mm             | mm         | mm      | in   | mm          | in   | mm       | in   | mm       | in   | mm       | in   | mm     | in   | mm     | inch |
| 5/8"      | F APB15P S20 SCHOTT 44 | Female 812811000 | 16     | M30X2    | M10X1              | G | (F+D)-17,4     | (F+D)-0,68 | F 208,5 | 8,21 | C 50,0      | 1,97 | I 54,7   | 2,15 | E 48,0   | 1,89 | K 20,2   | 0,80 | L 44,0 | 1,73 | 2,38   | 5,25 |
| 5/8"      | F APB15P S25 SCHOTT 38 | Male 812811002   | 16     | M36X2    | M10X1              | G | (F+D)-17,4     | (F+D)-0,68 | F 202,5 | 7,97 | C 50,0      | 1,97 | I 54,7   | 2,15 | E 48,0   | 1,89 | K 25,2   | 0,99 | L 38,0 | 1,50 | 2,43   | 5,35 |

## Spare kit

| Repair kit/ OR+BK |             |             |
|-------------------|-------------|-------------|
| Body size         | Description | Part number |
| 1/4"              | F APB7      | 815701349   |
| 3/8"              | F APB9      | 815701350   |
| 5/8"              | F APB15P    | 815701351   |
| 3/4"              | F APB17R    | 815701352   |



### ⚠ WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.  
 Never connect or disconnect with dynamic pressure (e.g. pump on).  
 Do not use the female coupling disconnected with high impulse pressure.  
 Do not couple-uncouple with flow and/or pressure 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 operating pressure of the port in use.  
 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 product 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.**