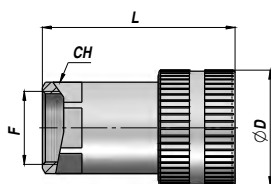


# ABIRF

## COUPLEUR A CLAPET VALVE QUICK COUPLING



"BIR" TYPE



Femelle - Female  
ISO 7241-1 "A"

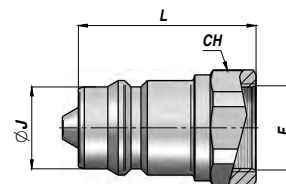
| Code<br>Code | F<br>BSP | P<br>MAX<br>bar** | L     | ØD | CH | kg   |
|--------------|----------|-------------------|-------|----|----|------|
| ABIRF04000   | 1/4"     | 350               | 47.1  | 26 | 19 | 0,10 |
| ABIRF06000   | 3/8"     | 300               | 56.1  | 31 | 22 | 0,14 |
| ABIRF08000   | 1/2"     | 250               | 63.3  | 38 | 27 | 0,25 |
| ABIRF12000   | 3/4"     | 250               | 82.2  | 48 | 38 | 0,49 |
| ABIRF16000   | 1"       | 230               | 97.1  | 54 | 45 | 0,76 |
| ABIRF20000   | 1"1/4    | 230               | 117.2 | 65 | 50 | 1,25 |

# ABIRM

## COUPLEUR A CLAPET VALVE QUICK COUPLING



"BIR" TYPE



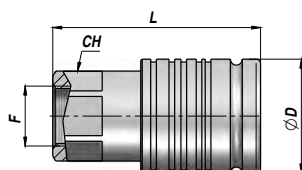
Mâle - Male  
ISO 7241-1 "A"

| Code<br>Code | F<br>BSP | P<br>MAX<br>bar** | ØJ   | L    | CH | kg   |
|--------------|----------|-------------------|------|------|----|------|
| ABIRM04000   | 1/4"     | 350               | 11.8 | 32.0 | 19 | 0,03 |
| ABIRM06000   | 3/8"     | 300               | 17.3 | 38.0 | 22 | 0,05 |
| ABIRM08000   | 1/2"     | 250               | 20.5 | 44.5 | 27 | 0,08 |
| ABIRM12000   | 3/4"     | 250               | 29.1 | 55.0 | 36 | 0,21 |
| ABIRM16000   | 1"       | 230               | 34.3 | 63.1 | 41 | 0,28 |
| ABIRM20000   | 1"1/4    | 230               | 45.0 | 75.0 | 55 | 0,59 |

COUPLEUR A CLAPET  
VALVE QUICK COUPLING

AIPVF

Femelle - Female "PUSH-PULL"  
ISO 7241-1 "A"



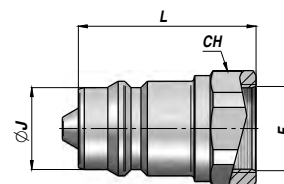
"IRS-V" TYPE

| Code<br>Code | F        | P<br>MAX<br>bar** | L    | ØD | CH | kg   |
|--------------|----------|-------------------|------|----|----|------|
| AIPVF08000   | 1/2" BSP | 250               | 63.2 | 38 | 27 | 0,28 |
| AIPVFN0800   | 1/2" NPT | 250               | 63.2 | 38 | 27 | 0,28 |

COUPLEUR A CLAPET  
VALVE QUICK COUPLING

ABIRM

Mâle - Male  
ISO 7241-1 "A"



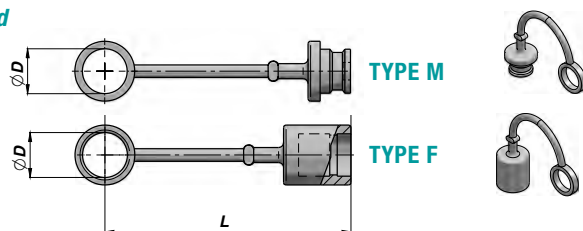
"BIR" TYPE

| Code<br>Code | F        | P<br>MAX<br>bar** | ØJ   | L    | CH | kg   |
|--------------|----------|-------------------|------|------|----|------|
| ABIRM08000   | 1/2" BSP | 250               | 20.5 | 44.5 | 27 | 0,08 |
| ABIRMN0800   | 1/2" NPT | 250               | 20.5 | 44.5 | 27 | 0,08 |

BOUCHON DE PROTECTION TYPE "BIR"  
"BIR" TYPE PROTECTION CAP

ATPRB

Rouge - Red



| Code<br>Code | Type<br>Type | Per<br>For | ØD   | L   | kg<br>x100 |
|--------------|--------------|------------|------|-----|------------|
| ATPRFB0400   | F            | M- 1/4"    | 19.5 | 230 | 1,30       |
| ATPRFB0600   | F            | M- 3/8"    | 22.5 | 234 | 1,50       |
| ATPRF08000   | F            | M- 1/2"    | 28.0 | 239 | 2,20       |
| ATPRFB1200   | F            | M- 3/4"    | 32.0 | 288 | 2,70       |
| ATPRFB1600   | F            | M- 1"      | 38.0 | 295 | 3,70       |
| ATPRMB0400   | M            | F- 1/4"    | 19.5 | 223 | 1,40       |
| ATPRMB0600   | M            | F- 3/8"    | 22.5 | 223 | 1,80       |
| ATPRM08000   | M            | F- 1/2"    | 28.0 | 273 | 2,20       |
| ATPRMB1200   | M            | F- 3/4"    | 32.0 | 266 | 2,50       |
| ATPRMB1600   | M            | F- 1"      | 38.0 | 271 | 4,00       |

MATERIEL - MATERIAL : PVC

Autres couleurs sur demande : jaune, bleu, noir et vert

Other colors on request : yellow, blue, black and green

# BIRSERIES

INTERCHANGE > ISO7241-1 "A"



## TECHNICAL FEATURES AND OPTIONS

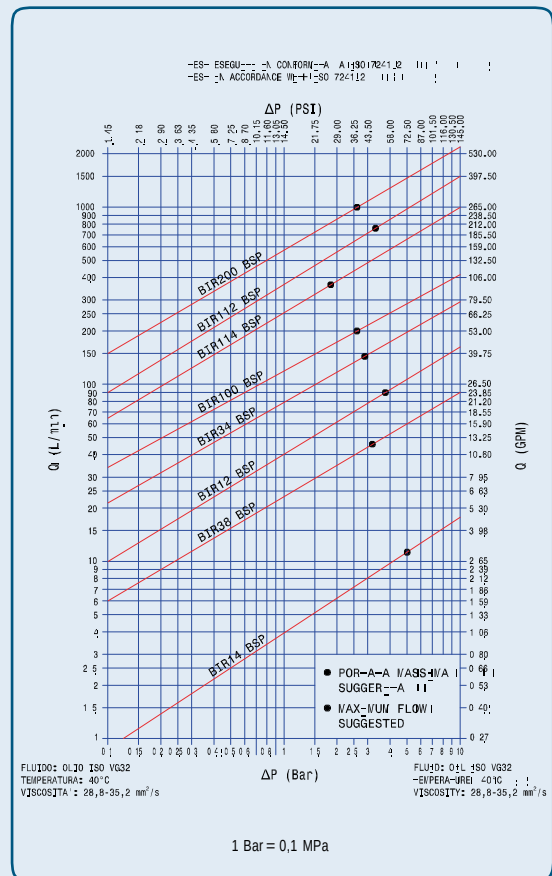
|                                                                                                                                |                                                                                                                                     |                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Interchange</b><br>ISO 7241-1 "A"        |  <b>Sealing description</b><br>Nitrile NBR        |  <b>Connection system</b><br>Single acting sleeve                                                           |
|  <b>Available sizes</b><br>From 1/4" to 2"  |  <b>Material /treatment</b><br>Carbon steel /Cr3 |  <b>Available threads</b><br>BSP - NPT                                                                     |
|  <b>Operating pressure</b><br>Up to 350 bar |  <b>Locking mechanism</b><br>Locking ball system |  <b>Flow rate</b><br>Up to 1000 L/Min                                                                      |
|  <b>Temperature (°C)</b><br>-20° / +100°    |  <b>Valving style</b><br>Poppet                  |  <b>Connection under pressure</b><br>Only PC version<br>Connection: one side<br>Disconnection: not allowed |

## BENEFITS

- Connection under residual pressure is allowed in the male or in the female (PC version). Please notice that the counterpart side should be drained and should use a standard ISO A poppet half.
- The poppet valve with elastomer seal provides maximum sealing of the couplings once disconnected.
- Shape of internal parts is designed to reduce turbulence and pressure drop.
- Compact design.
- Simple to use.

## HOW TO USE

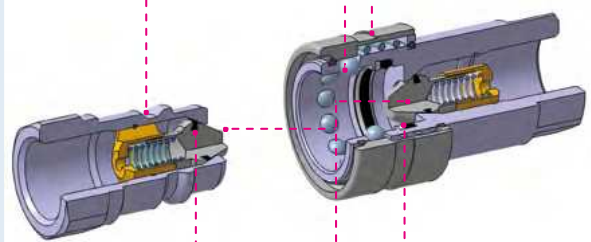
- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- To connect pull back the sleeve of the female coupling, align the female with the male coupling and push one into the other until both halves are fully connected and release the sleeve.
- To disconnect push back the sleeve of the female coupling, pull out the mating half.



Hardened surface  
area to reduce the  
"brinelling" effect

High number of  
locking balls  
to reduce the  
"brinelling" effect

Single acting sleeve:  
connection and disconnection  
by pulling back  
the sleeve



Valves with crimped seal  
to prevent extrusion  
at high flow rates

Poppet valves

BackUp rings are designed  
to prevent extrusion  
and to avoid premature  
wearing of O-Ring

## MAIN APPLICATIONS



Agriculture



Oil & Gas



Industry



High Pressure



Cooling



Refrigeration



Earth Moving



Vehicles



Hydraulic Equipment



Chemical & Food Industry



## PERFORMANCES

| Size  |          | Series/Size | Max. flow suggested |        | Connect force |       | Disconnect force |       | Spillage* |
|-------|----------|-------------|---------------------|--------|---------------|-------|------------------|-------|-----------|
| Inch  | mm (ISO) |             | l/min               | GPM    | N             | lbf   | N                | lbf   | ml        |
| 1/4   | 6,3      | BIR14       | 12                  | 3,18   | 60            | 13,50 | 25               | 5,63  | 0,70      |
| 3/8   | 10,0     | BIR38       | 46                  | 12,19  | 90            | 20,25 | 30               | 6,75  | 1,20      |
| 1/2   | 12,5     | BIR12       | 90                  | 23,85  | 70            | 15,75 | 55               | 12,38 | 2,10      |
| 3/4   | 20,0     | BIR34       | 148                 | 39,22  | 140           | 31,50 | 55               | 12,38 | 5,20      |
| 1     | 25,0     | BIR100      | 200                 | 53,00  | 190           | 42,75 | 55               | 12,38 | 9,00      |
| 1-1/4 | 31,5     | BIR114      | 378                 | 100,17 | 230           | 51,75 | 55               | 12,38 | 27,00     |
| 1-1/2 | 40       | BIR112      | 750                 | 198,75 | 250           | 56,25 | 70               | 13,75 | 49,00     |
| 2     | 50       | BIR200      | 1000                | 265,00 | 270           | 60,75 | 60               | 13,50 | 75,00     |

| Size  | Series/Size | Max. operating pressure |      |      |      |        |      | Burst pressure |       |      |       |        |       |
|-------|-------------|-------------------------|------|------|------|--------|------|----------------|-------|------|-------|--------|-------|
|       |             | Coupled                 |      | Male |      | Female |      | Coupled        |       | Male |       | Female |       |
| Inch  |             | MPa                     | psi  | MPa  | psi  | MPa    | psi  | MPa            | psi   | MPa  | psi   | MPa    | psi   |
| 1/4   | BIR14       | 35                      | 5075 | 35   | 5075 | 35     | 5075 | 126            | 18270 | 126  | 18270 | 126    | 18270 |
| 3/8   | BIR38       | 30                      | 4350 | 30   | 4350 | 30     | 4350 | 100            | 14500 | 100  | 14500 | 100    | 14500 |
| 1/2   | BIR12       | 25                      | 3625 | 25   | 3625 | 25     | 3625 | 80             | 11600 | 80   | 11600 | 100    | 14500 |
| 3/4   | BIR34       | 25                      | 3625 | 25   | 3625 | 25     | 3625 | 100            | 14500 | 100  | 14500 | 100    | 14500 |
| 1     | BIR100      | 23                      | 3335 | 23   | 3335 | 23     | 3335 | 80             | 11600 | 80   | 11600 | 80     | 11600 |
| 1-1/4 | BIR114      | 23                      | 3335 | 23   | 3335 | 23     | 3335 | 80             | 11600 | 80   | 11600 | 80     | 11600 |
| 1-1/2 | BIR112      | 18                      | 2610 | 18   | 2610 | 18     | 2610 | 64             | 9280  | 64   | 9280  | 64     | 9280  |
| 2     | BIR200      | 13                      | 1885 | 13   | 1885 | 13     | 1885 | 40             | 5800  | 40   | 5800  | 40     | 5800  |

\*Spillage is an indicative value of the fluid loss during disconnection (according to ISO 7241-2 test method)

### Different possible configurations:

**PC version**, special valve to connect under residual pressure possible either on male or on female side.

**PL version**, free flow (without valve) on both sides.

**TIC version**, shielded poppet to avoid flow-checking when used with other connect-under-pressure type couplers.

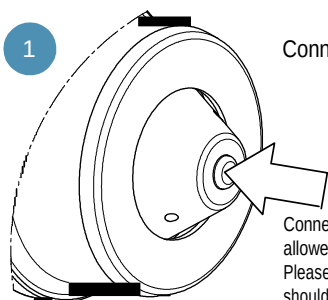
### Temperature range:

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

Upon request seals in VITON® : from -15°C to +180°C ( from +5 °F to +356 °F).

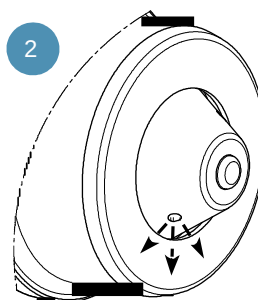
Please read carefully "instruction" and "warning" for proper selection of the products.

### PC version



Connect the counter part

Connection under residual pressure is allowed in the male or in the female. Please notice that the counterpart side should be drained and should use a standard ISO A poppet half.



The residual pressure released by the small holes during connection



## WARNING

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

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

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

Do not couple-uncouple with flow and pressure in the circuit (except PC version).

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).

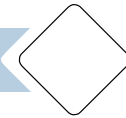
Check the maximum allowable working pressure of the port in use.

Make sure that the medium used is compatible with seal and material as indicated for each series.

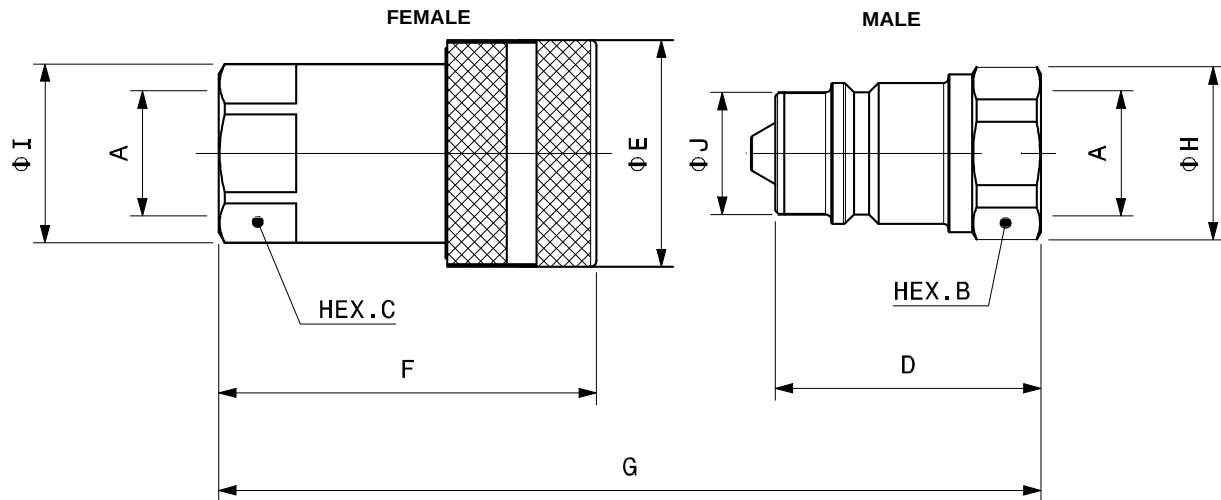
In case of doubt please contact Technical Support.

The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.

**It is MANDATORY to read and closely follow the instructions. Last updated version always apply at time of installation, see latest written Instructions on website before selecting or using products.**



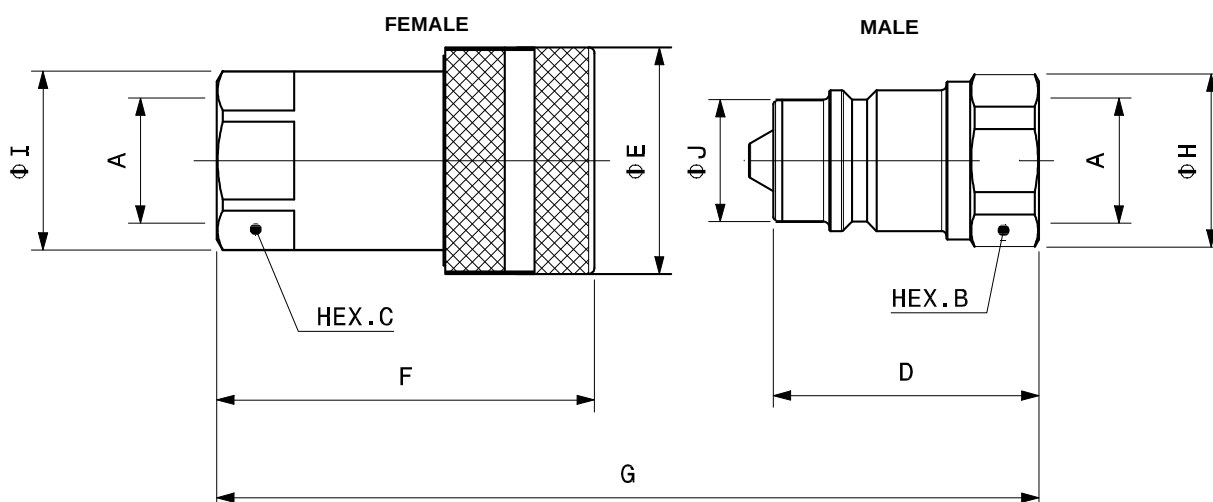
## OVERALL DIMENSIONS



### Port description: FEMALE THREAD BSPP (ISO 1179-1)

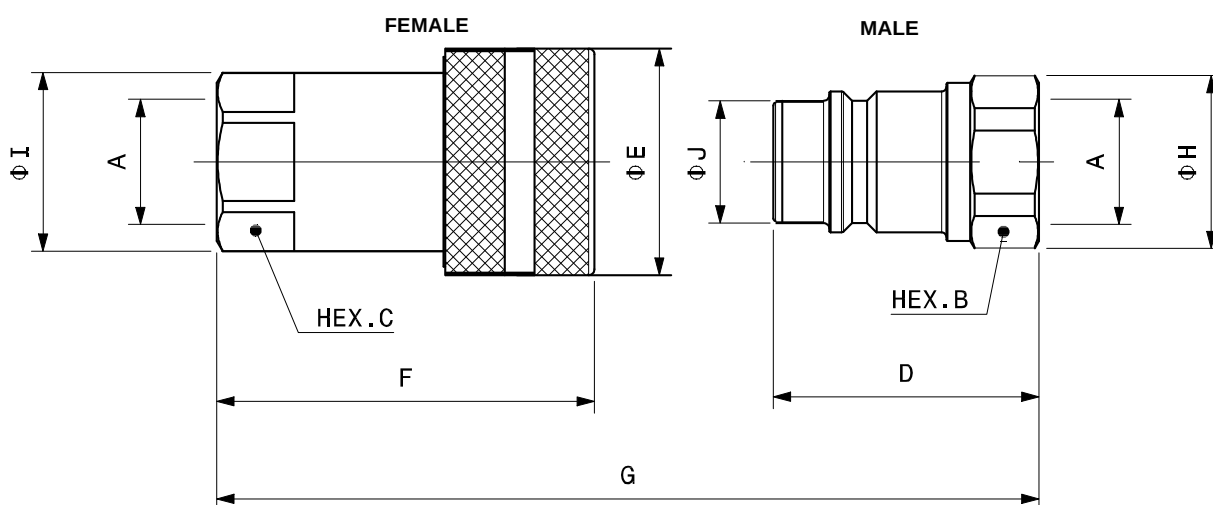
| BODY<br>SIZE | Descriptive Code | Item Code | ISO<br>DN | PORT (A) | Overall Length |      |       | Length |      |       | Hex  |      |      | Diameter |      |      | Diameter |      |       | Weight |      |      |
|--------------|------------------|-----------|-----------|----------|----------------|------|-------|--------|------|-------|------|------|------|----------|------|------|----------|------|-------|--------|------|------|
|              |                  |           |           |          | mm             | inch |       | mm     | inch |       | mm   | inch |      | mm       | inch |      | mm       | inch |       | Kg     | Lbs  |      |
| 1/4"         | F BIR14 BSP      | Female    | 800500000 | 6,3      | 1/4"           | G    | 64,8  | 2,55   | F    | 47,1  | 1,85 | C    | 19,0 | 0,75     | I    | 22,0 | 0,87     | E    | 26,0  | 1,02   | 0,10 | 0,21 |
|              | M BIR14 BSP      | Male      | 800500001 |          |                |      |       |        | D    | 32,0  | 1,26 | B    | 19,0 | 0,75     | H    | 20,8 | 0,82     | J    | 11,8  | 0,46   | 0,03 | 0,07 |
| 3/8"         | F BIR38 BSP      | Female    | 800500002 | 10       | 3/8"           | G    | 76,8  | 3,02   | F    | 56,1  | 2,21 | C    | 22,0 | 0,87     | I    | 24,0 | 0,94     | E    | 31,0  | 1,22   | 0,14 | 0,32 |
|              | M BIR38 BSP      | Male      | 800500003 |          |                |      |       |        | D    | 38,0  | 1,50 | B    | 22,0 | 0,87     | H    | 24,0 | 0,94     | J    | 17,3  | 0,68   | 0,05 | 0,11 |
| 1/2"         | F BIR12 BSP      | Female    | 800500004 | 12,5     | 1/2"           | G    | 86,3  | 3,40   | F    | 63,3  | 2,49 | C    | 27,0 | 1,06     | I    | 30,0 | 1,18     | E    | 38,0  | 1,50   | 0,25 | 0,54 |
|              | M BIR12 BSP      | Male      | 800500005 |          |                |      |       |        | D    | 44,5  | 1,75 | B    | 27,0 | 1,06     | H    | 29,0 | 1,14     | J    | 20,5  | 0,81   | 0,08 | 0,19 |
| 3/4"         | F BIR34 BSP      | Female    | 800500006 | 20       | 3/4"           | G    | 111,1 | 4,37   | F    | 82,2  | 3,24 | C    | 38,0 | 1,50     | I    | 44,0 | 1,73     | E    | 48,0  | 1,89   | 0,49 | 1,09 |
|              | M BIR34 BSP      | Male      | 800500007 |          |                |      |       |        | D    | 55,0  | 2,17 | B    | 36,0 | 1,42     | H    | 38,5 | 1,52     | J    | 29,1  | 1,15   | 0,21 | 0,45 |
| 1"           | F BIR100 BSP     | Female    | 800500008 | 25       | 1"             | G    | 127,3 | 5,01   | F    | 97,1  | 3,82 | C    | 45,0 | 1,77     | I    | 52,0 | 2,05     | E    | 54,0  | 2,13   | 0,76 | 1,68 |
|              | M BIR100 BSP     | Male      | 800500009 |          |                |      |       |        | D    | 63,1  | 2,48 | B    | 41,0 | 1,61     | H    | 44,8 | 1,76     | J    | 34,3  | 1,35   | 0,28 | 0,61 |
| 1-1/4"       | F BIR114 BSP     | Female    | 800500010 | 31,5     | 1-1/4"         | G    | 151,2 | 5,95   | F    | 117,2 | 4,61 | C    | 50,0 | 1,97     | I    | 55,5 | 2,19     | E    | 65,0  | 2,56   | 1,25 | 2,76 |
|              | M BIR114 BSP     | Male      | 800500011 |          |                |      |       |        | D    | 75,0  | 2,95 | B    | 55,0 | 2,17     | H    | 60,0 | 2,36     | J    | 45,0  | 1,77   | 0,59 | 1,31 |
| 1-1/2"       | F BIR112 BSP     | Female    | 800500012 | 40       | 1-1/2"         | G    | 171,3 | 6,74   | F    | 135,3 | 5,33 | C    | 60,0 | 2,36     | I    | 65,5 | 2,58     | E    | 80,0  | 3,15   | 2,13 | 4,70 |
|              | M BIR112 BSP     | Male      | 800500013 |          |                |      |       |        | D    | 85,0  | 3,35 | B    | 60,0 | 2,36     | H    | 65,5 | 2,58     | J    | 55,0  | 2,17   | 0,88 | 1,94 |
| 2"           | F BIR200 BSP     | Female    | 800500014 | 50       | 2"             | G    | 201,2 | 7,92   | F    | 160,2 | 6,31 | C    | 75,0 | 2,95     | I    | 83,7 | 3,30     | E    | 100,0 | 3,94   | 4,13 | 9,10 |
|              | M BIR200 BSP     | Male      | 800500015 |          |                |      |       |        | D    | 100,0 | 3,94 | B    | 75,0 | 2,95     | H    | 82,5 | 3,25     | J    | 65,0  | 2,56   | 1,44 | 3,17 |

BSP thread VITON® seals upon request



PC version poppet sealing system connectable under pressure

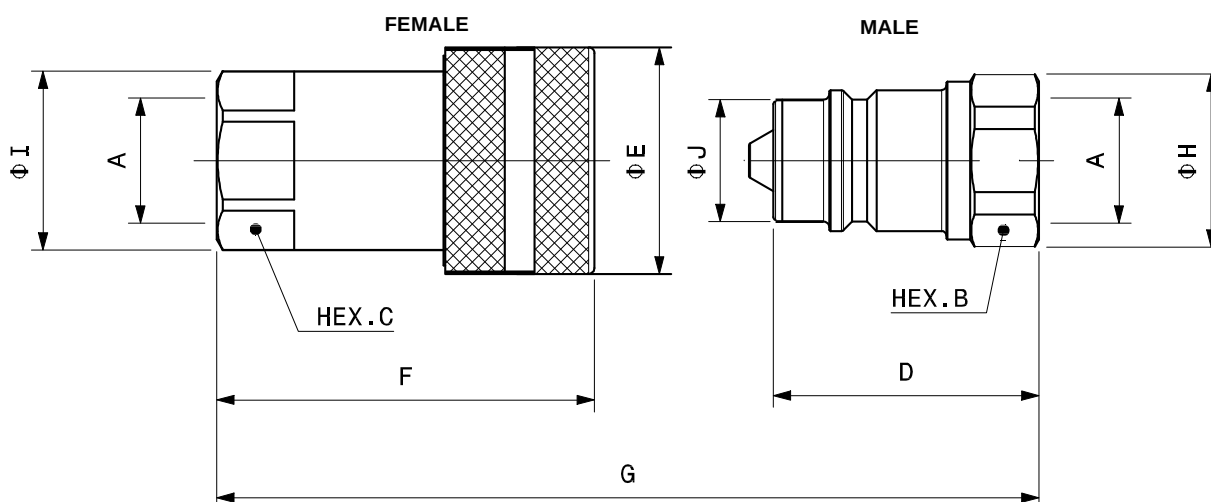
| BODY<br>SIZE | Descriptive Code | Item Code        | ISO<br>DN | PORT (A) | Overall Length |      |      | Length |      |      | Hex |      |      | Diameter |      |      | Diameter |      |      | Weight |      |
|--------------|------------------|------------------|-----------|----------|----------------|------|------|--------|------|------|-----|------|------|----------|------|------|----------|------|------|--------|------|
|              |                  |                  |           |          | mm             | inch | mm   | inch   | mm   | inch | mm  | inch | mm   | inch     | mm   | inch | Kg       | Lbs  |      |        |      |
| 1/2"         | F BIR12PC BSP    | Female 805600002 | 12,5      | 1/2"     | G              | 86,3 | 3,40 | F      | 63,3 | 2,49 | C   | 27,0 | 1,06 | I        | 30,0 | 1,18 | E        | 38,0 | 1,50 | 0,25   | 0,54 |
|              | M BIR12PC BSP    | Male 805600003   |           |          |                |      |      | D      | 44,5 | 1,75 | B   | 27,0 | 1,06 | H        | 29,0 | 1,14 | J        | 20,5 | 0,81 | 0,08   | 0,19 |



Port description: FEMALE THREAD BSPP (ISO 1179-1)

PL version full flow (without valve)

| BODY<br>SIZE | Descriptive Code | Item Code | ISO<br>DN | PORT (A) | Overall Length |      |       |      | Length |      |      |      | Hex  |      |    |      | Diameter |      |      |      | Diameter |      |  |  | Weight |  |
|--------------|------------------|-----------|-----------|----------|----------------|------|-------|------|--------|------|------|------|------|------|----|------|----------|------|------|------|----------|------|--|--|--------|--|
|              |                  |           |           |          | mm             | inch | mm    | inch | mm     | inch | mm   | inch | mm   | inch | mm | inch | mm       | inch | Kg   | Lbs  |          |      |  |  |        |  |
| 1/4"         | F BIR14PL BSP    | Female    | 800500018 | 6,3      | 1/4"           | G    | 64,8  | 2,55 | F      | 47,1 | 1,85 | C    | 19,0 | 0,75 | I  | 22,0 | 0,87     | E    | 26,0 | 1,02 | 0,10     | 0,21 |  |  |        |  |
|              | M BIR14PL BSP    | Male      | 800500019 |          |                |      |       |      | D      | 32,0 | 1,26 | B    | 19,0 | 0,75 | H  | 20,8 | 0,82     | J    | 11,8 | 0,46 | 0,03     | 0,07 |  |  |        |  |
| 3/8"         | F BIR38PL BSP    | Female    | 800500022 | 10       | 3/8"           | G    | 76,8  | 3,02 | F      | 56,1 | 2,21 | C    | 22,0 | 0,87 | I  | 24,0 | 0,94     | E    | 31,0 | 1,22 | 0,14     | 0,32 |  |  |        |  |
|              | M BIR38PL BSP    | Male      | 800500023 |          |                |      |       |      | D      | 38,0 | 1,50 | B    | 22,0 | 0,87 | H  | 24,0 | 0,94     | J    | 17,3 | 0,68 | 0,05     | 0,11 |  |  |        |  |
| 1/2"         | F BIR12PL BSP    | Female    | 800500020 | 12,5     | 1/2"           | G    | 86,3  | 3,40 | F      | 63,3 | 2,49 | C    | 27,0 | 1,06 | I  | 30,0 | 1,18     | E    | 38,0 | 1,50 | 0,25     | 0,54 |  |  |        |  |
|              | M BIR12PL BSP    | Male      | 800500021 |          |                |      |       |      | D      | 44,5 | 1,75 | B    | 27,0 | 1,06 | H  | 29,0 | 1,14     | J    | 20,5 | 0,81 | 0,08     | 0,19 |  |  |        |  |
| 3/4"         | F BIR34PL BSP    | Female    | 800500016 | 20       | 3/4"           | G    | 111,1 | 4,37 | F      | 82,2 | 3,24 | C    | 38,0 | 1,50 | I  | 44,0 | 1,73     | E    | 48,0 | 1,89 | 0,49     | 1,09 |  |  |        |  |
|              | M BR34 PL BSP    | Male      | 800500017 |          |                |      |       |      | D      | 55,0 | 2,17 | B    | 36,0 | 1,42 | H  | 38,5 | 1,52     | J    | 29,1 | 1,15 | 0,21     | 0,45 |  |  |        |  |
| 1"           | F BIR100PL BSP   | Female    | 800500024 | 25       | 1"             | G    | 127,3 | 5,01 | F      | 97,1 | 3,82 | C    | 45,0 | 1,77 | I  | 52,0 | 2,05     | E    | 54,0 | 2,13 | 0,76     | 1,68 |  |  |        |  |
|              | M BIR100PL BSP   | Male      | 800500025 |          |                |      |       |      | D      | 63,1 | 2,48 | B    | 41,0 | 1,61 | H  | 44,8 | 1,76     | J    | 34,3 | 1,35 | 0,28     | 0,61 |  |  |        |  |



## Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

| BODY<br>SIZE | Descriptive Code | Item Code        | ISO<br>DN | PORT (A) | Overall Length |       |      |      | Length |      |    |      | Hex  |      |      |      | Diameter |       |      |      | Diameter |  |  |  | Weight |  |
|--------------|------------------|------------------|-----------|----------|----------------|-------|------|------|--------|------|----|------|------|------|------|------|----------|-------|------|------|----------|--|--|--|--------|--|
|              |                  |                  |           |          | mm             | inch  | mm   | inch | mm     | inch | mm | inch | mm   | inch | mm   | inch | Kg       | Lbs   |      |      |          |  |  |  |        |  |
| 1/4"         | F BIR14 NPT      | Female 800501000 | 6,3       | 1/4"     | G              | 64,8  | 2,55 | F    | 47,1   | 1,85 | C  | 19,0 | 0,75 | I    | 22,0 | 0,87 | E        | 26,0  | 1,02 | 0,09 | 0,21     |  |  |  |        |  |
|              | M BIR14 NPT      | Male 800501001   |           |          |                |       |      | D    | 32,0   | 1,26 | B  | 19,0 | 0,75 | H    | 20,8 | 0,82 | J        | 11,8  | 0,46 | 0,03 | 0,07     |  |  |  |        |  |
| 3/8"         | F BIR38 NPT      | Female 800501002 | 10        | 3/8"     | G              | 76,8  | 3,02 | F    | 56,1   | 2,21 | C  | 22,0 | 0,87 | I    | 24,0 | 0,94 | E        | 31,0  | 1,22 | 0,15 | 0,32     |  |  |  |        |  |
|              | M BIR38 NPT      | Male 800501003   |           |          |                |       |      | D    | 38,0   | 1,50 | B  | 22,0 | 0,87 | H    | 24,0 | 0,94 | J        | 17,3  | 0,68 | 0,05 | 0,12     |  |  |  |        |  |
| 1/2"         | F BIR12 NPT      | Female 800501004 | 12,5      | 1/2"     | G              | 86,3  | 3,40 | F    | 63,3   | 2,49 | C  | 27,0 | 1,06 | I    | 30,0 | 1,18 | E        | 38,0  | 1,50 | 0,25 | 0,54     |  |  |  |        |  |
|              | M BIR12 NPT      | Male 800501005   |           |          |                |       |      | D    | 44,5   | 1,75 | B  | 27,0 | 1,06 | H    | 29,0 | 1,14 | J        | 20,5  | 0,81 | 0,08 | 0,19     |  |  |  |        |  |
| 3/4"         | F BIR34 NPT      | Female 800501006 | 20        | 3/4"     | G              | 111,1 | 4,37 | F    | 82,2   | 3,24 | C  | 38,0 | 1,50 | I    | 44,0 | 1,73 | E        | 48,0  | 1,89 | 0,50 | 1,11     |  |  |  |        |  |
|              | M BIR34 NPT      | Male 800501007   |           |          |                |       |      | D    | 55,0   | 2,17 | B  | 36,0 | 1,42 | H    | 38,5 | 1,52 | J        | 29,1  | 1,15 | 0,21 | 0,46     |  |  |  |        |  |
| 1"           | F BIR100 NPT     | Female 800501008 | 25        | 1"       | G              | 127,3 | 5,01 | F    | 97,1   | 3,82 | C  | 45,0 | 1,77 | I    | 52,0 | 2,05 | E        | 54,0  | 2,13 | 0,77 | 1,70     |  |  |  |        |  |
|              | M BIR100 NPT     | Male 800501009   |           |          |                |       |      | D    | 63,1   | 2,48 | B  | 41,0 | 1,61 | H    | 44,8 | 1,76 | J        | 34,3  | 1,35 | 0,28 | 0,63     |  |  |  |        |  |
| 1-1/4"       | F BIR114 NPT     | Female 800501010 | 31,5      | 1-1/4"   | G              | 151,2 | 5,95 | F    | 117,2  | 4,61 | C  | 50,0 | 1,97 | I    | 55,5 | 2,19 | E        | 65,0  | 2,56 | 1,24 | 2,74     |  |  |  |        |  |
|              | M BIR114 NPT     | Male 800501011   |           |          |                |       |      | D    | 75,0   | 2,95 | B  | 55,0 | 2,17 | H    | 60,0 | 2,36 | J        | 45,0  | 1,77 | 0,62 | 1,36     |  |  |  |        |  |
| 1-1/2"       | F BIR112 NPT     | Female 800501012 | 40        | 1-1/2"   | G              | 171,3 | 6,74 | F    | 135,3  | 5,33 | C  | 60,0 | 2,36 | I    | 65,5 | 2,58 | E        | 80,0  | 3,15 | 2,13 | 4,70     |  |  |  |        |  |
|              | M BIR112 NPT     | Male 800501013   |           |          |                |       |      | D    | 85,0   | 3,35 | B  | 60,0 | 2,36 | H    | 65,5 | 2,58 | J        | 55,0  | 2,17 | 0,88 | 1,94     |  |  |  |        |  |
| 2"           | F BIR200 NPT     | Female 800501014 | 50        | 2"       | G              | 201,2 | 7,92 | F    | 160,2  | 6,31 | C  | 75,0 | 2,95 | I    | 83,7 | 3,30 | E        | 100,0 | 3,94 | 4,13 | 9,10     |  |  |  |        |  |
|              | M BIR200 NPT     | Male 800501015   |           |          |                |       |      | D    | 100,0  | 3,94 | B  | 75,0 | 2,95 | H    | 82,5 | 3,25 | J        | 65,0  | 2,56 | 1,44 | 3,17     |  |  |  |        |  |

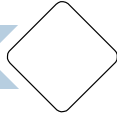
NPT thread VITON® seals upon request

## PC version poppet sealing system connectable under pressure

| BODY | Descriptive Code | Item Code        | ISO  | PORT (A) | Overall Length |      |      | Length |      |      | Hex |      |      | Diameter |      |      | Diameter |      |      | Weight |      |
|------|------------------|------------------|------|----------|----------------|------|------|--------|------|------|-----|------|------|----------|------|------|----------|------|------|--------|------|
| SIZE |                  |                  | DN   |          |                | mm   | inch |        | mm   | inch |     | mm   | inch |          | mm   | inch |          | mm   | inch | Kg     | Lbs  |
| 1/2" | F BIR12PC NPT    | Female 805601000 | 12,5 | 1/2"     | G              | 86,3 | 3,40 | F      | 63,3 | 2,49 | C   | 27,0 | 1,06 | I        | 30,0 | 1,18 | E        | 38,0 | 1,50 | 0,25   | 0,54 |
|      | M BIR12PC NPT    | Male 805601001   |      |          |                |      |      | D      | 44,5 | 1,75 | B   | 27,0 | 1,06 | H        | 29,0 | 1,14 | J        | 20,5 | 0,81 | 0,08   | 0,19 |

## TIC version Shielded poppet to eliminate flow-checking when used with connect-under-pressure competitor couplers

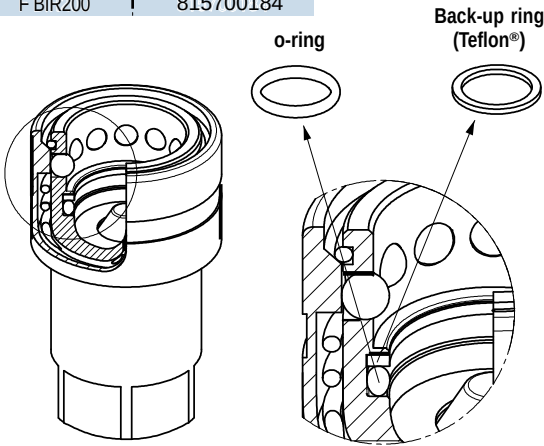
| BODY<br>SIZE | Descriptive Code | Item Code      | ISO<br>DN | PORT (A) | Overall Length |      | Length |      | Hex  |      | Diameter |      | Diameter |      | Weight |      |   |      |      |      |      |
|--------------|------------------|----------------|-----------|----------|----------------|------|--------|------|------|------|----------|------|----------|------|--------|------|---|------|------|------|------|
|              |                  |                |           |          | mm             | inch | mm     | inch | mm   | inch | mm       | inch | mm       | inch | Kg     | Lbs  |   |      |      |      |      |
| 1/2"         | M BIR12TIC NPT   | Male 800501017 | 12,5      | 1/2"     | G              | 86,3 | 3,40   | D    | 47,0 | 1,85 | B        | 27,0 | 1,06     | H    | 30,0   | 1,18 | J | 20,5 | 0,81 | 0,08 | 0,19 |



SPARE KIT SEAL FOR FEMALE

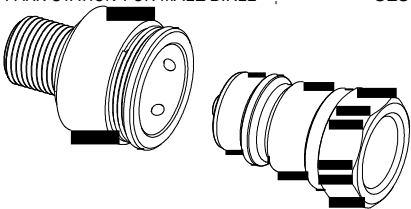
| Repair kit / OR (+BK) |             |             |
|-----------------------|-------------|-------------|
| Body Size             | Description | Part Number |
| 1/4"                  | F BIR14     | 815700170   |
| 3/8"                  | F BIR38     | 815700172   |
| 1/2"                  | F BIR12     | 815700174   |
| 3/4"                  | F BIR34     | 815700176   |
| 1"                    | F BIR100    | 815700178   |
| 1-1/4"                | F BIR114    | 815700180   |
| 1-1/2"                | F BIR112    | 815700182   |
| 2"                    | F BIR200    | 815700184   |

O-Ring in Nitrile  
BackUp in Teflon®



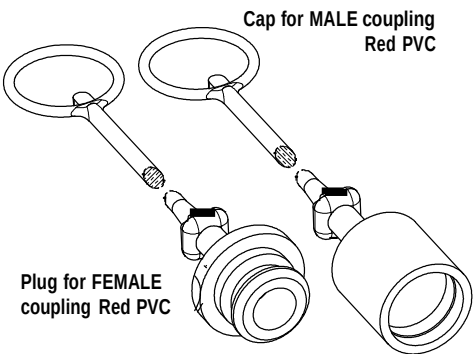
PARKING STATION FOR MALE

| Parking station only (male coupling not included) |                             |             |
|---------------------------------------------------|-----------------------------|-------------|
| Body Size                                         | Description                 | Part Number |
| 1/2"                                              | PARK STATION FOR MALE BIR12 | 815515003   |



PROTECTIVE CAPS FOR BIR SERIES

Protective caps are always recommended to protect the couplings from damage, dirt inclusion, and will increase the product life. This is particularly important in agriculture applications where exposure to weather and aggregate materials are common. The protective caps for BIR series are manufactured in PVC with connection lanyard (standard color red, other colors available upon request).



| Body Size/Description |        | Protective Cap  |              | Material/Color |
|-----------------------|--------|-----------------|--------------|----------------|
|                       |        | Plug for Female | Cap for Male |                |
| 1/4"                  | BIR14  | 815000012       | 815000013    | PVC/Red        |
| 3/8"                  | BIR38  | 815000014       | 815000015    | PVC/Red        |
| 1/2"                  | BIR12  | 815000004       | 815000005    | PVC/Red        |
| 3/4"                  | BIR34  | 815000016       | 815000017    | PVC/Red        |
| 1"                    | BIR100 | 815000018       | 815000019    | PVC/Red        |