

## // SWIVEL CONNECTOR

### ALFAGOMMA has removed the damage caused by twisted hoses

ALFAGOMMA state-of-the-art swivel connectors range is specifically designed to withstand the most severe working conditions and to ensure the best performances in the harshest environments up to 410 bar operating pressure.

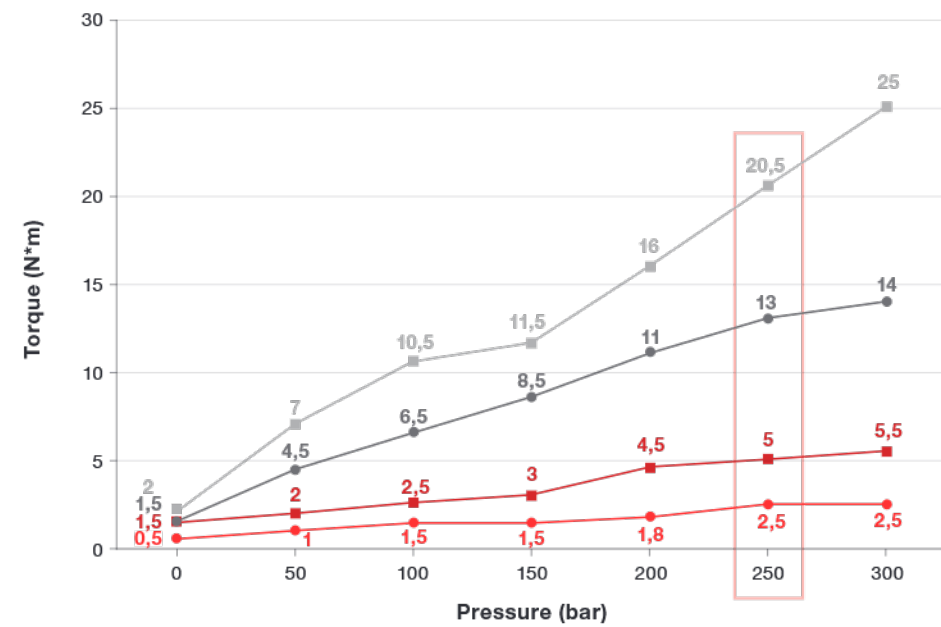
Its innovative ball bearing-less swivel system guarantees long lasting reliability to the hydraulic system, increasing productivity without fluid leakages.

The ball bearing-less inner mechanism ensures a consistent rotary movement within the system and prevents damaging torsions to the hose.

The result is an increase in components service life and lower operating costs due to easier & inexpensive maintenance.

ALFAGOMMA swivel connectors have a compact design, which makes them suitable for use in the smallest of spaces. Thanks to our exclusive TOP COAT – Galvanic Coating – proprietary technology, the complete range of ALFAGOMMA swivel connectors can boast an outstanding wear and corrosion resistance, so as to guarantee a longer lifespan to your hydraulic system.

### Swivel Connector rotating torque comparison chart: ALFAGOMMA *versus* Competitor



**Dash -08  
at 250 bar  
5 times better  
than Competitor**

**Dash -12  
at 250 bar  
4 times better  
than Competitor**

— ALFAGOMMA (dash -08) — Competitor (dash -08)  
— ALFAGOMMA (dash -12) — Competitor (dash -12)

## // PROVIDING EXCELLENCE AND RELIABILITY

The ALFAGOMMA Group, established in 1956, is a global manufacturer specialized in highly engineered, complex hydraulic and industrial products, created with a commitment to excellence in quality and innovation.

## // GLOBAL PRESENCE AND LOGISTIC SUPPORT

The ALFAGOMMA Group currently employs over 3000 people worldwide in 19 Production Plants and 85 Regional Distribution – Assembly Centers strategically located in:

- |                 |                           |
|-----------------|---------------------------|
| <b>EUROPE</b>   | <b>AMERICAS</b>           |
| // Italy        | // Brazil                 |
| // Denmark      | // Canada                 |
| // Estonia      | // USA                    |
| // Finland      |                           |
| // France       | <b>ASIA &amp; PACIFIC</b> |
| // Germany      | // Australia              |
| // Greece       | // China                  |
| // Netherlands  | // Indonesia              |
| // Norway       | // Malaysia               |
| // Sweden       | // Singapore              |
| // UK           | // South Korea            |
| <b>AFRICA</b>   |                           |
| // South Africa |                           |



**MANUFACTURING  
PLANTS**

**19**  
IN 8 COUNTRIES  
ITALY – FINLAND  
GERMANY – GREAT BRITAIN  
BRAZIL – USA  
CHINA – MALAYSIA



**SUBSIDIARIES AND  
ASSEMBLY PLANTS**

**85**  
IN 21 COUNTRIES  
AND  
5 CONTINENTS



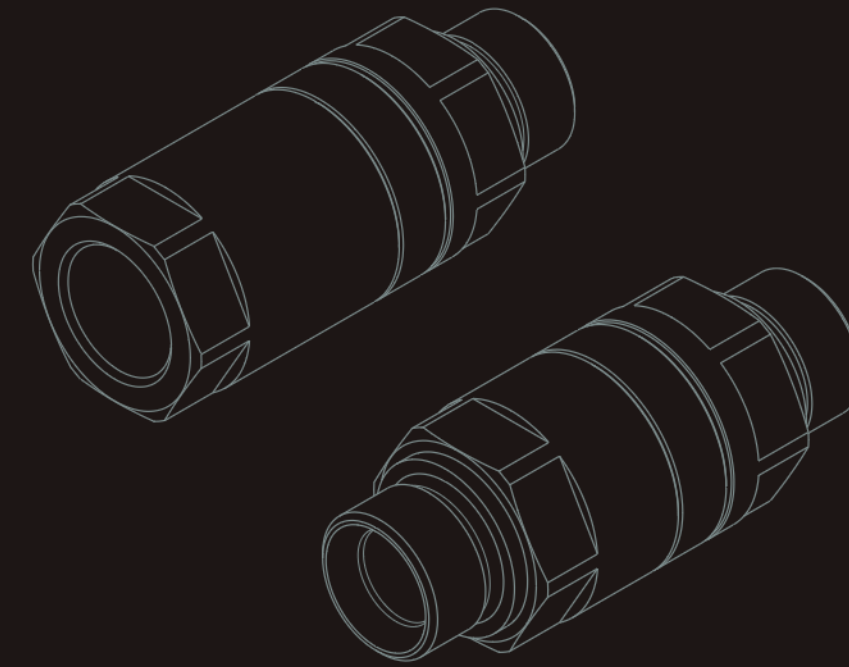
**QUALITY  
CERTIFICATION**

**ISO**  
ISO 9001  
SINCE 1993  
ISO 14001  
SINCE 1999



**EMPLOYEES**

**3.000**  
AROUND  
THE WORLD



**SWIVEL CONNECTORS**



**HEADQUARTER**  
Dunlop Hilflex OY  
Jasperintie 320  
33960 Pirkkala (Finland)  
Tel +358 (0) 207 625 600 – Fax +358 (0) 207 625 603  
info@dunlophiflex.fi – www.dunlophiflex.fi



**ALFAGOMMA**

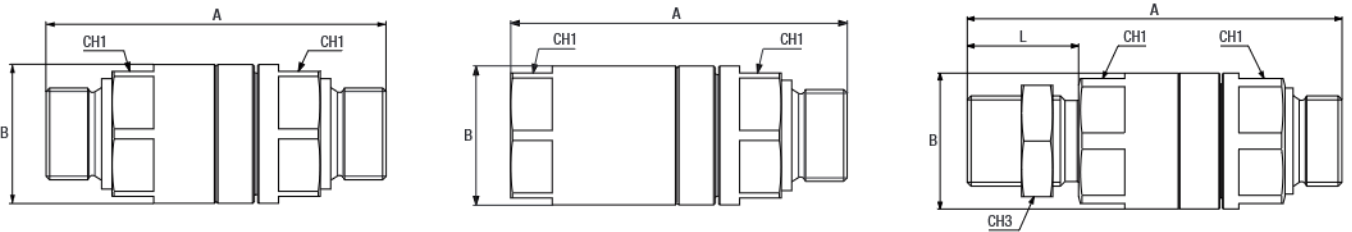
// SWIVEL CONNECTOR

MAIN BENEFITS AT A GLANCE

- ▲ INCREASED SERVICE LIFE
- ▲ CUT OUT FLUID LEAKAGES
- ▲ HIGHER EFFICIENCY
- ▲ EASIER & INEXPENSIVE MAINTENANCE
- ▲ TOP LEVEL OPERATING PERFORMANCE UP TO 410 BAR (6.000 PSI)
- ▲ OUTSTANDING WEAR AND CORROSION RESISTANCE THANKS TO TOP COAT PROPRIETARY TECHNOLOGY

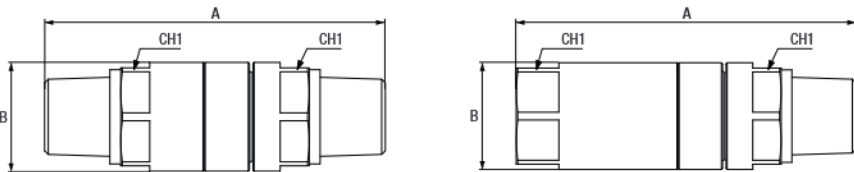
PRODUCT FEATURES

**Body material:** high strength carbon steel with TOP COAT surface protection  
**Seal material:** HNBR and PTFE  
**Working pressure:**  
- 410 bar up to 1 1/4" (6.000 psi up to 1 1/4")  
- 310 bar 1 1/2" (4.500 psi 1 1/2")  
- 210 bar 2" (3.000 psi 2")  
**Safety factor:** 4:1  
**Temperature:** -35 °C +120 °C (-31 °F +248 °F)



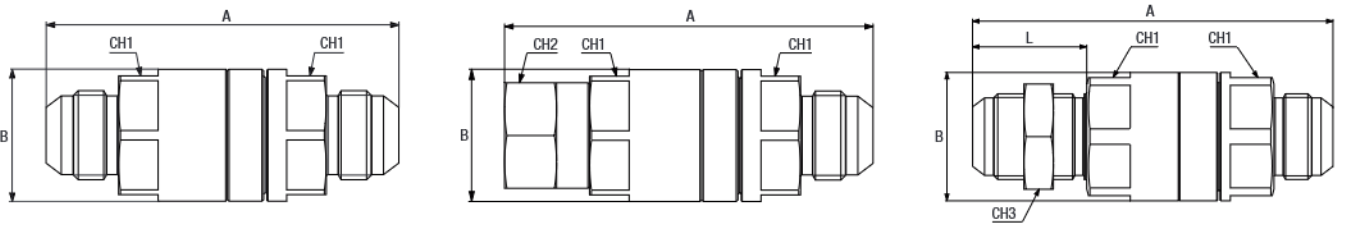
// Swivel Connector BSPP

| SAP     | Item Code      |  |    |       | ID<br>mm | Port 1           | Port 2        | Thread<br>inch | A<br>mm | B<br>mm | CH1<br>mm | CH3<br>mm | L<br>mm |
|---------|----------------|-------------------------------------------------------------------------------------|----|-------|----------|------------------|---------------|----------------|---------|---------|-----------|-----------|---------|
|         |                | Dash                                                                                | DN | inch  |          |                  |               |                |         |         |           |           |         |
| 1233377 | 25-RJU-BSPP-06 | -6                                                                                  | 10 | 3/8   | 10       | M BSPP 60° 06    | M BSPP 60° 06 | 3/8 -19        | 86      | 30      | 27        | -         | -       |
| 1233378 | 25-RJU-BSPP-08 | -8                                                                                  | 13 | 1/2   | 10       | M BSPP 60° 08    | M BSPP 60° 08 | 1/2 -14        | 86      | 30      | 27        | -         | -       |
| 1233379 | 25-RJU-BSPP-12 | -12                                                                                 | 19 | 3/4   | 16       | M BSPP 60° 12    | M BSPP 60° 12 | 3/4 -14        | 104     | 46      | 41        | -         | -       |
| 1233380 | 25-RJU-BSPP-16 | -16                                                                                 | 25 | 1     | 22       | M BSPP 60° 16    | M BSPP 60° 16 | 1 -11          | 119     | 56      | 50        | -         | -       |
| 1234983 | 25-RJU-BSPP-20 | -20                                                                                 | 32 | 1 1/4 | 22       | M BSPP 60° 20    | M BSPP 60° 20 | 1 1/4 -11      | 119     | 56      | 50        | -         | -       |
| 1233381 | 25-RJU-BSPP-24 | -24                                                                                 | 38 | 1 1/2 | 32       | M BSPP 60° 24    | M BSPP 60° 24 | 1 1/2 -11      | 157     | 75      | 70        | -         | -       |
| 1233382 | 25-RJU-BSPP-32 | -32                                                                                 | 51 | 2     | 45       | M BSPP 60° 32    | M BSPP 60° 32 | 2 -11          | 176     | 95      | 85        | -         | -       |
| 1235068 | 25-RJS-BSPP-06 | -6                                                                                  | 10 | 3/8   | 10       | F BSPP 06        | M BSPP 60° 06 | 3/8 -19        | 87,5    | 30      | 27        | -         | -       |
| 1233383 | 25-RJS-BSPP-08 | -8                                                                                  | 13 | 1/2   | 10       | F BSPP 08        | M BSPP 60° 08 | 1/2 -14        | 90      | 30      | 27        | -         | -       |
| 1233384 | 25-RJS-BSPP-12 | -12                                                                                 | 19 | 3/4   | 16       | F BSPP 12        | M BSPP 60° 12 | 3/4 -14        | 103     | 46      | 41        | -         | -       |
| 1233385 | 25-RJS-BSPP-16 | -16                                                                                 | 25 | 1     | 22       | F BSPP 16        | M BSPP 60° 16 | 1 -11          | 119     | 56      | 50        | -         | -       |
| 1234984 | 25-RJS-BSPP-20 | -20                                                                                 | 32 | 1 1/4 | 22       | F BSPP 20        | M BSPP 60° 20 | 1 1/4 -11      | 119     | 56      | 50        | -         | -       |
| 1240261 | 25-RJS-BSPP-24 | -24                                                                                 | 38 | 1 1/2 | 32       | F BSPP 60° 24    | M BSPP 60° 24 | 2 -11          | 157     | 75      | 70        | -         | -       |
| 1233386 | 25-RJL-BSPP-06 | -6                                                                                  | 10 | 3/8   | 10       | M BH BSPP 60° 06 | M BSPP 60° 06 | 3/8 -19        | 105,5   | 30      | 27        | 22        | 31      |
| 1233387 | 25-RJL-BSPP-08 | -8                                                                                  | 13 | 1/2   | 10       | M BH BSPP 60° 08 | M BSPP 60° 08 | 1/2 -14        | 108,5   | 30      | 27        | 27        | 34      |
| 1233388 | 25-RJL-BSPP-12 | -12                                                                                 | 19 | 3/4   | 16       | M BH BSPP 60° 12 | M BSPP 60° 12 | 3/4 -14        | 129     | 46      | 41        | 36        | 37      |
| 1233389 | 25-RJL-BSPP-16 | -16                                                                                 | 25 | 1     | 22       | M BH BSPP 60° 16 | M BSPP 60° 16 | 1 -11          | 143     | 56      | 50        | 41        | 41      |
| 1233390 | 25-RJL-BSPP-24 | -24                                                                                 | 38 | 1 1/2 | 32       | M BH BSPP 60° 24 | M BSPP 60° 24 | 1 1/2 -11      | 188     | 75      | 70        | 55        | 49      |



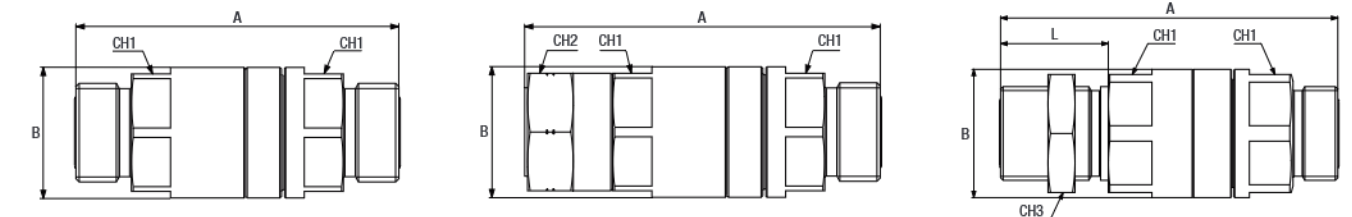
// Swivel Connector NPTF

| SAP     | Item Code      |  |    |      | ID<br>mm | Port 1    | Port 2    | Thread<br>inch | A<br>mm | B<br>mm | CH1<br>mm |
|---------|----------------|---------------------------------------------------------------------------------------|----|------|----------|-----------|-----------|----------------|---------|---------|-----------|
|         |                | Dash                                                                                  | DN | inch |          |           |           |                |         |         |           |
| 1233816 | 25-RJU-NPTF-08 | -8                                                                                    | 13 | 1/2  | 10       | M NPTF 08 | M NPTF 08 | 1/2 -14        | 94      | 30      | 27        |
| 1233817 | 25-RJS-NPTF-08 | -8                                                                                    | 13 | 1/2  | 10       | F NPTF 08 | M NPTF 08 | 1/2 -14        | 95,5    | 30      | 27        |



// Swivel Connector JIC

| SAP     | Item Code     |  |    |      | ID<br>mm | Port 1      | Port 2   | Thread<br>inch | A<br>mm | B<br>mm | CH1<br>mm | CH2<br>mm | CH3<br>mm | L<br>mm |
|---------|---------------|-------------------------------------------------------------------------------------|----|------|----------|-------------|----------|----------------|---------|---------|-----------|-----------|-----------|---------|
|         |               | Dash                                                                                | DN | inch |          |             |          |                |         |         |           |           |           |         |
| 1233391 | 25-RJU-JIC-08 | -8                                                                                  | 13 | 1/2  | 10       | M JIC 08    | M JIC 08 | 3/4 -16 UNF    | 93,5    | 30      | 27        | -         | -         | -       |
| 1233392 | 25-RJU-JIC-10 | -10                                                                                 | 16 | 5/8  | 16       | M JIC 10    | M JIC 10 | 7/8 -14 UNF    | 113     | 46      | 41        | -         | -         | -       |
| 1233393 | 25-RJU-JIC-12 | -12                                                                                 | 19 | 3/4  | 16       | M JIC 12    | M JIC 12 | 1 1/16 -12 UN  | 118     | 46      | 41        | -         | -         | -       |
| 1233394 | 25-RJU-JIC-16 | -16                                                                                 | 25 | 1    | 22       | M JIC 16    | M JIC 16 | 1 5/16 -12 UN  | 127,5   | 56      | 50        | -         | -         | -       |
| 1233395 | 25-RJS-JIC-08 | -8                                                                                  | 13 | 1/2  | 10       | F JIC 08    | M JIC 08 | 3/4 -16 UNF    | 100     | 30      | 27        | 25        | -         | -       |
| 1233396 | 25-RJS-JIC-10 | -10                                                                                 | 16 | 5/8  | 16       | F JIC 10    | M JIC 10 | 7/8 -14 UNF    | 121,2   | 46      | 41        | 27        | -         | -       |
| 1233397 | 25-RJS-JIC-12 | -12                                                                                 | 19 | 3/4  | 16       | F JIC 12    | M JIC 12 | 1 1/16 -12 UN  | 122,8   | 46      | 41        | 32        | -         | -       |
| 1233398 | 25-RJS-JIC-16 | -16                                                                                 | 25 | 1    | 22       | F JIC 16    | M JIC 16 | 1 5/16 -12 UN  | 137,1   | 56      | 50        | 38        | -         | -       |
| 1233399 | 25-RJL-JIC-08 | -8                                                                                  | 13 | 1/2  | 10       | M BH JIC 08 | M JIC 08 | 3/4 -16 UNF    | 114     | 30      | 27        | -         | 24        | 36,5    |
| 1233400 | 25-RJL-JIC-10 | -10                                                                                 | 16 | 5/8  | 16       | M BH JIC 10 | M JIC 10 | 7/8 -14 UNF    | 134     | 46      | 41        | -         | 30        | 40      |
| 1233401 | 25-RJL-JIC-12 | -12                                                                                 | 19 | 3/4  | 16       | M BH JIC 12 | M JIC 12 | 1 1/16 -12 UN  | 141     | 46      | 41        | -         | 36        | 44,5    |
| 1233402 | 25-RJL-JIC-16 | -16                                                                                 | 25 | 1    | 22       | M BH JIC 16 | M JIC 16 | 1 5/16 -12 UN  | 148,9   | 56      | 50        | -         | 41        | 44,5    |



// Swivel Connector ORFS

| SAP     | Item Code      |  |    |      | ID<br>mm | Port 1       | Port 2    | Thread<br>inch | A<br>mm | B<br>mm | CH1<br>mm | CH2<br>mm | CH3<br>mm | L<br>mm |
|---------|----------------|---------------------------------------------------------------------------------------|----|------|----------|--------------|-----------|----------------|---------|---------|-----------|-----------|-----------|---------|
|         |                | Dash                                                                                  | DN | inch |          |              |           |                |         |         |           |           |           |         |
| 1233403 | 25-RJU-ORFS-08 | -8                                                                                    | 13 | 1/2  | 10       | M ORFS 08    | M ORFS 08 | 13/16 -16 UN   | 84,5    | 30      | 27        | -         | -         | -       |
| 1233404 | 25-RJU-ORFS-10 | -10                                                                                   | 16 | 5/8  | 16       | M ORFS 10    | M ORFS 10 | 1 -14 UNS      | 104     | 46      | 41        | -         | -         | -       |
| 1233405 | 25-RJU-ORFS-12 | -12                                                                                   | 19 | 3/4  | 16       | M ORFS 12    | M ORFS 12 | 1 3/16 -12 UN  | 107     | 46      | 41        | -         | -         | -       |
| 1233406 | 25-RJU-ORFS-16 | -16                                                                                   | 25 | 1    | 22       | M ORFS 16    | M ORFS 16 | 1 7/16 -12 UN  | 118,5   | 56      | 50        | -         | -         | -       |
| 1233407 | 25-RJS-ORFS-08 | -8                                                                                    | 13 | 1/2  | 10       | F ORFS 08    | M ORFS 08 | 13/16 -16 UN   | 95      | 30      | 27        | 27        | -         | -       |
| 1233408 | 25-RJS-ORFS-10 | -10                                                                                   | 16 | 5/8  | 16       | F ORFS 10    | M ORFS 10 | 1 -14 UNS      | 116,1   | 46      | 41        | 30        | -         | -       |
| 1233409 | 25-RJS-ORFS-12 | -12                                                                                   | 19 | 3/4  | 16       | F ORFS 12    | M ORFS 12 | 1 3/16 -12 UN  | 120     | 46      | 41        | 36        | -         | -       |
| 1233410 | 25-RJS-ORFS-16 | -16                                                                                   | 25 | 1    | 22       | F ORFS 16    | M ORFS 16 | 1 7/16 -12 UN  | 130     | 56      | 50        | 41        | -         | -       |
| 1233411 | 25-RJL-ORFS-08 | -8                                                                                    | 13 | 1/2  | 10       | M BH ORFS 08 | M ORFS 08 | 13/16 -16 UN   | 108,5   | 30      | 27        | -         | 30        | 36,5    |
| 1233412 | 25-RJL-ORFS-10 | -10                                                                                   | 16 | 5/8  | 16       | M BH ORFS 10 | M ORFS 10 | 1 -14 UNS      | 126,5   | 46      | 41        | -         | 36        | 40,5    |
| 1233413 | 25-RJL-ORFS-12 | -12                                                                                   | 19 | 3/4  | 16       | M BH ORFS 12 | M ORFS 12 | 1 3/16 -12 UN  | 129     | 46      | 41        | -         | 41        | 41,5    |
| 1233414 | 25-RJL-ORFS-16 | -16                                                                                   | 25 | 1    | 22       | M BH ORFS 16 | M ORFS 16 | 1 7/16 -12 UN  | 142     | 56      | 50        | -         | 46        | 42      |

A COMPLETE RANGE OF PRODUCTS TO MEET OUR CUSTOMERS' NEEDS