

Part number:

**HYDROMA**

HYDRAULICKÉ SYSTÉMY

**HIDROMA  
SYSTEMS**

UKŁADY HYDRAULICZNE

**HYDROMA**

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

## ALP2 - GHP2

### COME ORDINARE / HOW TO ORDER

| SERIE<br>SERIES | ELEMENTO<br>ELEMENT | TIPO<br>TYPE | ROTAZIONE<br>ROTATION              | TAGLIA<br>SIZE | ALBERO** °<br>SHAFT** ° | PORTE°<br>PORTS° | GUARNIZIONI°<br>SEALS° | OPZIONI°<br>OPTIONS° |
|-----------------|---------------------|--------------|------------------------------------|----------------|-------------------------|------------------|------------------------|----------------------|
| ALP             | A2                  | omit         | omit*                              | 6              |                         |                  |                        |                      |
| GHP             | I2                  | A**          | D DESTRA<br>CLOCKWISE              | 9              |                         |                  |                        |                      |
|                 | P2                  | A3** °°      | S SINISTRA<br>COUNTER<br>CLOCKWISE | 10             |                         |                  |                        |                      |
|                 |                     | BK1**        |                                    | 12             |                         |                  |                        |                      |
|                 |                     | BK2**        |                                    | 13             |                         |                  |                        |                      |
|                 |                     | BK4**        |                                    | 16             |                         |                  |                        |                      |
|                 |                     | BK7**        |                                    | 20             |                         |                  |                        |                      |
|                 |                     |              |                                    | 22             |                         |                  |                        |                      |
|                 |                     |              |                                    | 25             |                         |                  |                        |                      |
|                 |                     |              |                                    | 30             |                         |                  |                        |                      |
|                 |                     |              |                                    | 34             |                         |                  |                        |                      |
|                 |                     |              |                                    | 37             |                         |                  |                        |                      |
|                 |                     |              |                                    | 40             |                         |                  |                        |                      |
|                 |                     |              |                                    | 50             |                         |                  |                        |                      |

#### Guarnizioni / Seals

omit (T range = -10°C + 80°C)

V

...

#### Opzioni / Options

\*\* TR (anello di tenuta rinforzato / reinforced shaft seal)

\*\* T

\*\* OR

AS (aspirazioni separate / separated inlet)

°° AC (aspirazioni comuni / common inlet)

\* = per elemento modulare I non specificare rotazione /  
for the modular element I don't specify the direction of  
rotation\*\* = campo da specificare solo per elemento A / to be  
specified only A element° = campi da specificare se diversi dallo standard / to  
be specified if different from standard

°° = solo per serie GHP / only for GHP series

#### Esempi / Examples:

ALPA2-D-22 = elemento anteriore serie ALP, gruppo 2, flangia europea, rotazione destra, cilindrata 16 cm<sup>3</sup>/giro, albero conico 1:8, porte flangiate tipo E, guarnizioni standard / front element ALP series, group 2, european flange, clockwise rotation, 16 cm<sup>3</sup>/rev displacement, 1:8 tapered shaft, flanged ports E type, standard sealsALPI2-16 = elemento intermedio serie ALP, gruppo 2, rotazione destra o sinistra, cilindrata 11,5 cm<sup>3</sup>/giro, porte flangiate tipo E, guarnizioni standard / medium element ALP series, group 2, clockwise or anti-clockwise rotation, 11,5 cm<sup>3</sup>/rev displacement, flanged ports E type, standard sealsGHPP2-D-13 = elemento posteriore serie GHP, gruppo 2, rotazione destra, cilindrata 9,6 cm<sup>3</sup>/giro, porte flangiate tipo E, guarnizioni standard / rear element GHP series, group 2, clockwise rotation, 9,6 cm<sup>3</sup>/rev displacement, flanged ports E type, standard seals

LE TAVOLE DI PRODOTTO RAPPRESENTANO I TIPI POMPA STANDARD PER MARZOCCHI POMPE. SONO COMUNQUE DISPONIBILI ALTRE CONFIGURAZIONI DI FLANGE, ALBERI E PORTE DETTAGLIATAMENTE DESCRITTE NELLE PUBBLICAZIONI RIFERITE ALLE POMPE SINGOLE SIA DELLA SERIE MICROPOMPE (COPERTINA GIALLA) CHE DELLE SERIE ALP E GHP (COPERTINE GRIGIA E MARRONE).

PER MAGGIORI DETTAGLI SULLE DISPONIBILITÀ E CONDIZIONI DI FORNITURA, CONSIGLIAMO DI INTERPELLARE IL NOSTRO UFFICIO TECNICO-COMMERCIALE.

PRODUCT TABLES REPRESENT STANDARD PUMPS BY MARZOCCHI POMPE. DIFFERENT FLANGES, SHAFTS AND PORTS ARE AVAILABLE. PLEASE REFER TO CATALOGUES FOR SINGLE PUMPS, BOTH MICROPUMPS (YELLOW COVER) AND ALP/GHP PUMPS (GREY AND BROWN COVER). PLEASE CALL OUT SALES AND TECHNICAL DEPARTMENT FOR MORE INFORMATION ON PART AVAILABILITY AND DELIVERY TERMS AND CONDITIONS.

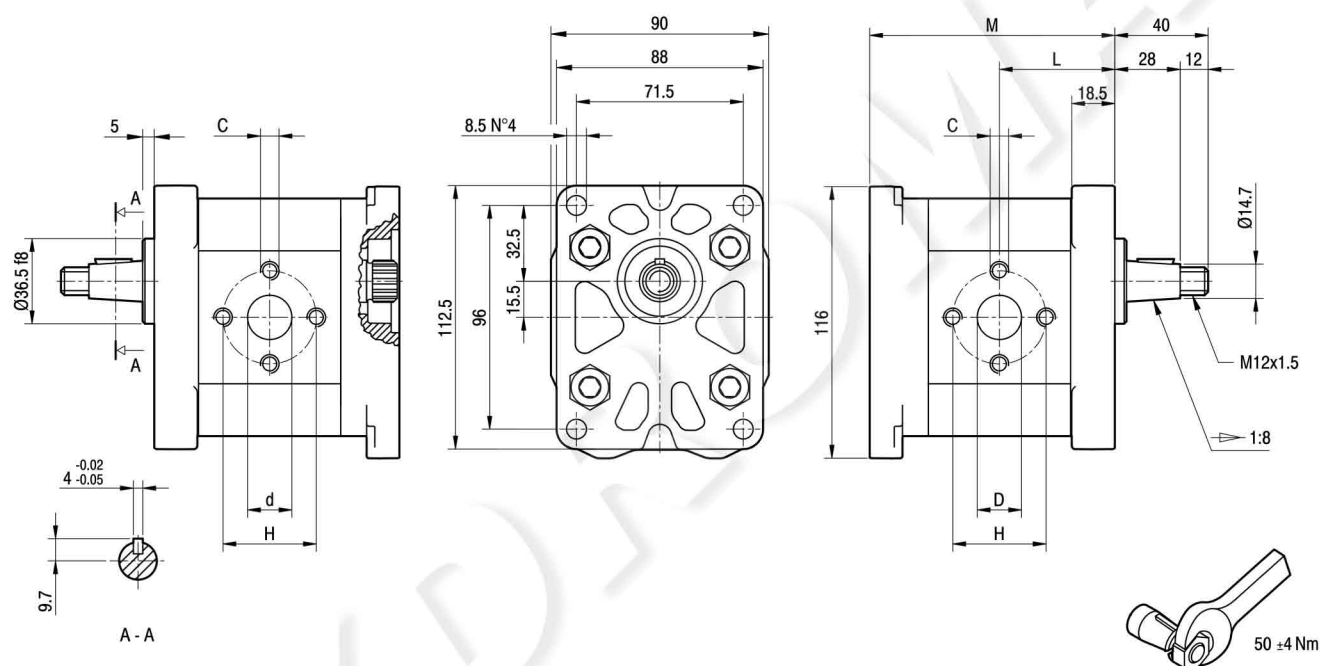
# ALPA2

Parti accessorie a corredo della pompa standard: linguetta a disco (codice 522057), dado M12x1.5 (codice 523016), rosetta elastica spaccata (codice 523005).  
Porte standard: filetti M6 profondità utile 13 mm, filetti M8 profondità utile 17 mm.

Accessories supplied with the standard pump: woodruff key (code 522057), M12x1.5 hexagonal nut (code 523016), washer (code 523005).  
Standard ports: M6 threads depth 13 mm, M8 threads depth 17 mm.

MANDATA  
OUTLET

ASPIRAZIONE  
INLET



| TIPO<br>TYPE | CILINDRATA<br>DISPLACEMENT                   | PORTATA a 1500 giri/min<br>FLOW at 1500 rev/min | PRESSIONI MASSIME<br>MAX PRESSURE |                |                | VELOCITÀ MASSIMA<br>MAX SPEED | DIMENSIONI<br>DIMENSIONS |     |    |    |    |    |
|--------------|----------------------------------------------|-------------------------------------------------|-----------------------------------|----------------|----------------|-------------------------------|--------------------------|-----|----|----|----|----|
|              |                                              |                                                 | P <sub>1</sub>                    | P <sub>2</sub> | P <sub>3</sub> |                               | L                        | M   | d  | D  | C  | H  |
|              | cm <sup>3</sup> /giro [cm <sup>3</sup> /rev] | litri/min [litres/min]                          | bar                               | bar            | bar            | giri/min [rpm]                | mm                       | mm  | mm | mm |    | mm |
| ALPA2-D-6    | 4,5                                          | 6,4                                             | 250                               | 270            | 290            | 4000                          | 45,5                     | 97  | 13 | 13 | M6 | 30 |
| ALPA2-D-9    | 6,4                                          | 9,1                                             | 250                               | 270            | 290            | 4000                          | 47                       | 100 | 13 | 13 | M6 | 30 |
| ALPA2-D-10   | 7,0                                          | 10,0                                            | 250                               | 270            | 290            | 4000                          | 47,5                     | 101 | 13 | 13 | M8 | 40 |
| ALPA2-D-12   | 8,3                                          | 11,8                                            | 250                               | 270            | 290            | 3500                          | 48,5                     | 103 | 13 | 13 | M8 | 40 |
| ALPA2-D-13   | 9,6                                          | 13,7                                            | 250                               | 270            | 290            | 3000                          | 49,5                     | 105 | 13 | 13 | M8 | 40 |
| ALPA2-D-16   | 11,5                                         | 16,4                                            | 230                               | 250            | 270            | 4000                          | 51                       | 108 | 13 | 19 | M8 | 40 |
| ALPA2-D-20   | 14,1                                         | 20,1                                            | 230                               | 250            | 270            | 4000                          | 53                       | 112 | 13 | 19 | M8 | 40 |
| ALPA2-D-22   | 16,0                                         | 22,8                                            | 210                               | 225            | 240            | 4000                          | 54,5                     | 115 | 13 | 19 | M8 | 40 |
| ALPA2-D-25   | 17,9                                         | 25,5                                            | 210                               | 225            | 240            | 3600                          | 56                       | 118 | 13 | 19 | M8 | 40 |
| ALPA2-D-30   | 21,1                                         | 30,1                                            | 180                               | 195            | 210            | 3200                          | 58,5                     | 123 | 19 | 19 | M8 | 40 |
| ALPA2-D-34   | 23,7                                         | 33,7                                            | 180                               | 195            | 210            | 3000                          | 60,5                     | 127 | 19 | 19 | M8 | 40 |
| ALPA2-D-37   | 25,5                                         | 36,4                                            | 170                               | 185            | 200            | 2800                          | 62                       | 130 | 19 | 19 | M8 | 40 |
| ALPA2-D-40   | 28,2                                         | 40,1                                            | 170                               | 185            | 200            | 2500                          | 64                       | 134 | 19 | 19 | M8 | 40 |
| ALPA2-D-50   | 35,2                                         | 50,2                                            | 140                               | 155            | 170            | 2500                          | 69,5                     | 145 | 19 | 21 | M8 | 40 |

# ALP2A

Parti accessorie a corredo della pompa standard: linguetta (codice 522067).  
Monta flangia 82-2 (A) secondo norma SAE J744c.

Le porte standard "D" e "d" sono lavorate secondo la specifica SAE J1926/1 (ISO 11926-1) relativa a porte filettate con tenuta O-ring.

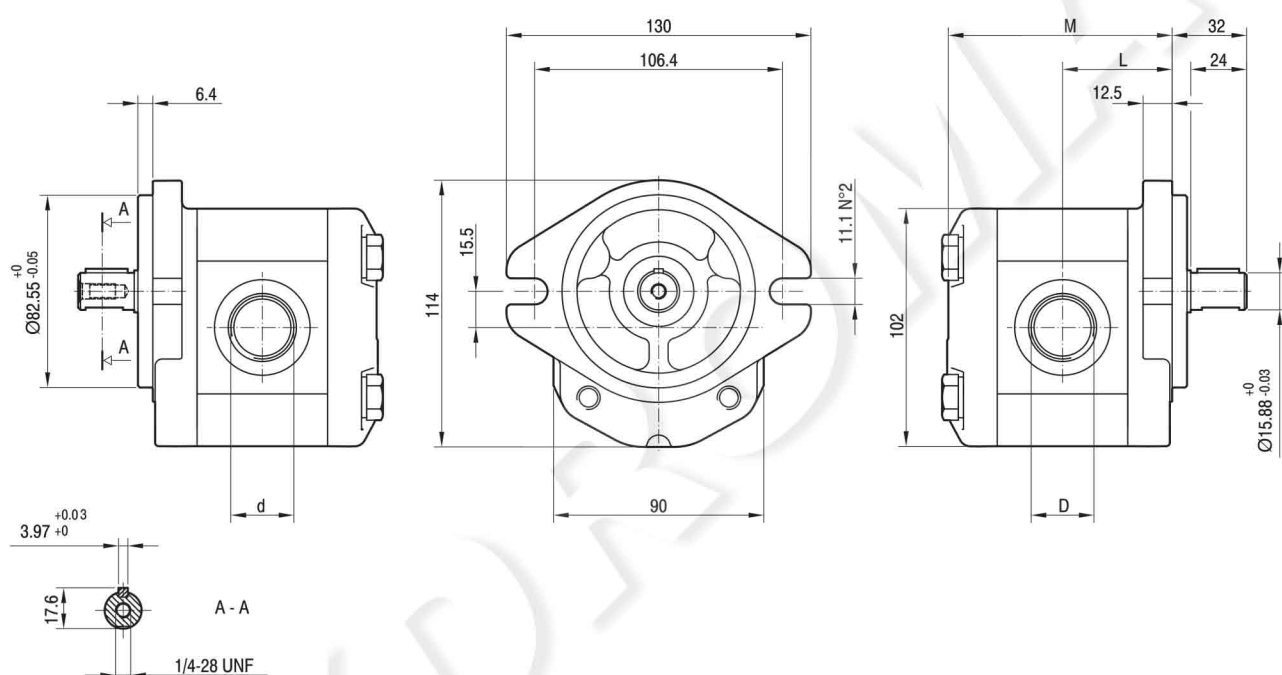
Accessories supplied with the standard pump: key (code 522067).

Mounting flange 82-2 (A) in compliance with SAE J744c.

"D" and "d" standard ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO 11926-1).

MANDATA  
OUTLET

ASPIRAZIONE  
INLET

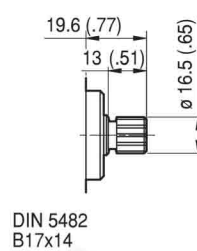
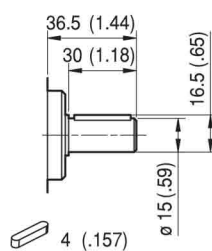
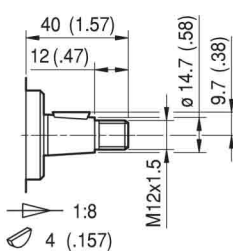
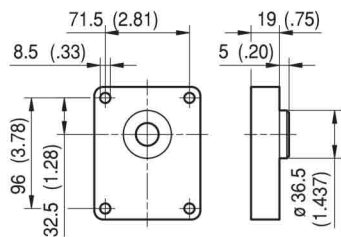


| TIPO<br>TYPE | CILINDRATA<br>DISPLACEMENT                   | PORTATA a 1500 giri/min<br>FLOW at 1500 rev/min | PRESSIONI MASSIME<br>MAX PRESSURE |                |                | VELOCITÀ MASSIMA<br>MAX SPEED | DIMENSIONI<br>DIMENSIONS |       |            |               |
|--------------|----------------------------------------------|-------------------------------------------------|-----------------------------------|----------------|----------------|-------------------------------|--------------------------|-------|------------|---------------|
|              |                                              |                                                 | P <sub>1</sub>                    | P <sub>2</sub> | P <sub>3</sub> |                               | L                        | M     | d          | D             |
|              | cm <sup>3</sup> /giro [cm <sup>3</sup> /rev] | litri/min [litres/min]                          | bar                               | bar            | bar            | giri/min [rpm]                | mm                       | mm    |            |               |
| ALP2A-D-6    | 4,5                                          | 6,4                                             | 250                               | 270            | 290            | 4000                          | 45,5                     | 93,5  | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-9    | 6,4                                          | 9,1                                             | 250                               | 270            | 290            | 4000                          | 47                       | 96,5  | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-10   | 7,0                                          | 10,0                                            | 250                               | 270            | 290            | 4000                          | 47,5                     | 97,5  | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-12   | 8,3                                          | 11,8                                            | 250                               | 270            | 290            | 4000                          | 48,5                     | 99,5  | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-13   | 9,6                                          | 13,7                                            | 250                               | 270            | 290            | 4000                          | 49,5                     | 101,5 | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-16   | 11,5                                         | 16,4                                            | 230                               | 250            | 270            | 4000                          | 51                       | 104,5 | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-20   | 14,1                                         | 20,1                                            | 230                               | 250            | 270            | 3200                          | 53                       | 108,5 | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-22   | 16,0                                         | 22,8                                            | 210                               | 225            | 240            | 2800                          | 54,5                     | 111,5 | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-25   | 17,9                                         | 25,5                                            | 210                               | 225            | 240            | 2500                          | 56                       | 114,5 | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-30   | 21,1                                         | 30,1                                            | 180                               | 195            | 210            | 2200                          | 58,5                     | 119,5 | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-34   | 23,7                                         | 33,7                                            | 180                               | 195            | 210            | 2000                          | 60,5                     | 123,5 | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-37   | 25,5                                         | 36,4                                            | 170                               | 185            | 200            | 1800                          | 62                       | 126,5 | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-40   | 28,2                                         | 40,1                                            | 170                               | 185            | 200            | 1800                          | 64                       | 130,5 | 7/8-14 UNF | 1 1/16-12 UNF |
| ALP2A-D-50   | 35,2                                         | 50,2                                            | 140                               | 155            | 170            | 2000                          | 69,5                     | 141,5 | 7/8-14 UNF | 1 5/16-12 UNF |

Nel caso di funzionamento a pressioni elevate e intermittenti è possibile una riduzione della resistenza a fatica del corpo.  
A reduction of body's fatigue strength may occur if the pump is working at elevated and intermittent pressures.

## FLANGE / FLANGES

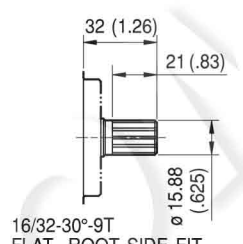
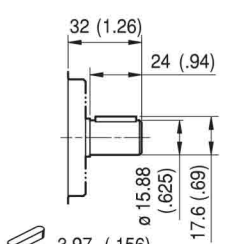
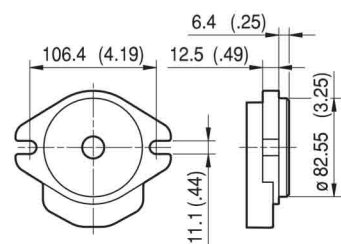
## ALBERI / SHAFTS



**T0**  
Coppia Max  
Max Torque 145 Nm

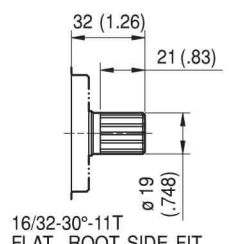
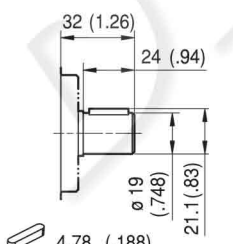
**C0**  
Coppia Max  
Max Torque 125 Nm

**S0**  
Coppia Max  
Max Torque 130 Nm



**C1**  
Coppia Max  
Max Torque 105 Nm

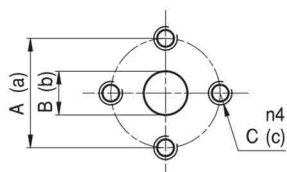
**S1**  
Coppia Max  
Max Torque 110 Nm



**C2**  
Coppia Max  
Max Torque 150 Nm

**S2**  
Coppia Max  
Max Torque 230 Nm

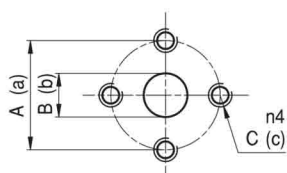
## PORTE / PORTS



**E**

| TIPO<br>TYPE          | ASPIRAZIONE<br>INLET |    |    | MANDATA<br>OUTLET |    |    |
|-----------------------|----------------------|----|----|-------------------|----|----|
|                       | A                    | B  | C  | a                 | b  | c  |
| ALP2...6 ÷ ALP2...9   | 30                   | 13 | M6 | 30                | 13 | M6 |
| ALP2...10 ÷ ALP2...13 | 40                   | 13 | M8 | 40                | 13 | M8 |
| ALP2...16 ÷ ALP2...25 | 40                   | 19 | M8 | 40                | 13 | M8 |
| ALP2...30 ÷ ALP2...40 | 40                   | 19 | M8 | 40                | 19 | M8 |
| ALP2...50             | 40                   | 21 | M8 | 40                | 19 | M8 |

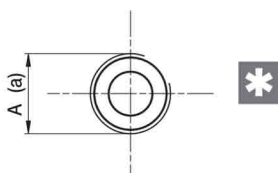
I valori delle coppie di serraggio delle viti presenti nel kit raccordo sono indicate a pag 57 (capitolo accessori).  
Tightening torques of the fittings screws are specified on page 57 (accessories section).



**EP**

| TIPO<br>TYPE          | ASPIRAZIONE<br>INLET |    |    | MANDATA<br>OUTLET |    |    |
|-----------------------|----------------------|----|----|-------------------|----|----|
|                       | A                    | B  | C  | a                 | b  | c  |
| ALP2...6              | 40                   | 13 | M8 | 30                | 13 | M6 |
| ALP2...10 ÷ ALP2...13 | 30                   | 13 | M6 | 30                | 13 | M6 |
| ALP2...16 ÷ ALP2...40 | 40                   | 19 | M8 | 30                | 13 | M6 |
| ALP2...50             | 40                   | 21 | M8 | 30                | 19 | M6 |

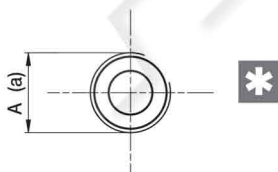
I valori delle coppie di serraggio delle viti presenti nel kit raccordo sono indicate a pag 57 (capitolo accessori).  
Tightening torques of the fittings screws are specified on page 57 (accessories section).



**FG**

| TIPO<br>TYPE          | ASPIRAZIONE<br>INLET | MANDATA<br>OUTLET |
|-----------------------|----------------------|-------------------|
|                       | A                    | a                 |
| ALP2...6 ÷ ALP2...16  | G1/2                 | G1/2              |
| ALP2...20 ÷ ALP2...50 | G3/4                 | G1/2              |

Raccordo G1/2 coppia di serraggio massima 50 Nm. Raccordo G3/4 coppia di serraggio massima 60 Nm.  
Consigliamo di richiedere conferma al fornitore del raccordo.  
Tightening torques for G1/2 fitting: 50 Nm. Tightening torques for G3/4 fitting: 60 Nm. Please check with the fittings suppliers.



**FC**

| TIPO<br>TYPE          | ASPIRAZIONE<br>INLET | MANDATA<br>OUTLET |
|-----------------------|----------------------|-------------------|
|                       | A                    | a                 |
| ALP2...6 ÷ ALP2...16  | Rc1/2                | Rc1/2             |
| ALP2...20 ÷ ALP2...50 | Rc3/4                | Rc1/2             |

Raccordo Rc1/2 coppia di serraggio massima 50 Nm. Raccordo Rc3/4 coppia di serraggio massima 60 Nm.  
Consigliamo di richiedere conferma al fornitore del raccordo.  
Tightening torques for Rc1/2 fitting: 50 Nm. Tightening torques for Rc3/4 fitting: 60 Nm. Please check with the fittings suppliers.

\* Nel caso di funzionamento a pressioni elevate e intermittenti è possibile una riduzione della resistenza a fatica del corpo.  
A reduction of body's fatigue strength may occur if the pump is working at elevated and intermittent pressures.