

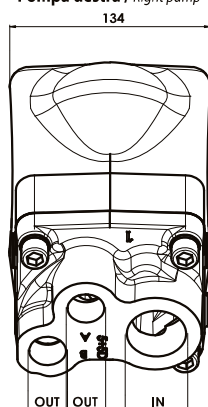


Flangia/Flange **ISO**  
Albero/Shaft **ISO14 8x32x36**  
Cilindrata/Displacement **vedi tabella/see table**

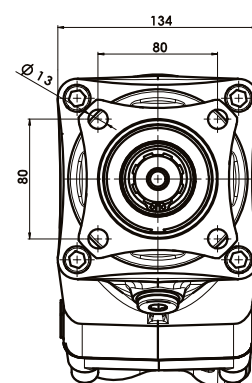
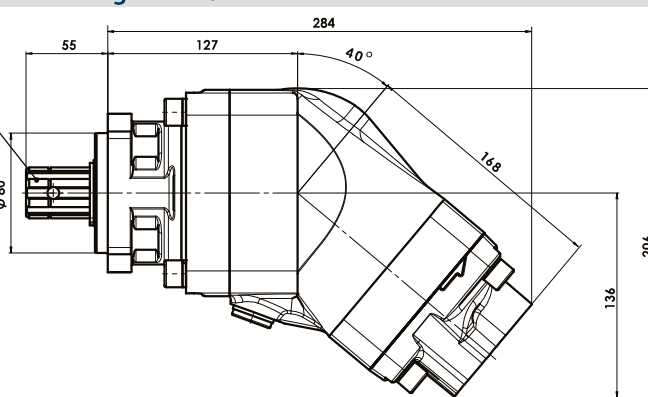
|                                                                                                                                                                                                                                                                                     |                                                                                                                               |                                                        |                                     |                |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------|----------------|------|
| Fluido idraulico / Fluid                                                                                                                                                                                                                                                            | Minerale o sintetico compatibile con guarnizioni:<br>Mineral or synthetic compatible with the following seals: FKM, FPM, HNBR |                                                        |                                     |                |      |
| Viscosità cinematica consigliata<br><i>Kinematic viscosity suggested</i>                                                                                                                                                                                                            | T media ambiente (°C)<br>Average ambient temp. (°C)                                                                           | < -40                                                  | -40÷10                              | 10÷35          | > 35 |
|                                                                                                                                                                                                                                                                                     | VG (cSt = mm²/s)                                                                                                              | 16                                                     | 22                                  | 32             | 46   |
| Viscosità cinematica ottimale di esercizio<br><i>Optimale kinematic viscosity</i>                                                                                                                                                                                                   |                                                                                                                               |                                                        | VG= 10 cSt ÷ 100 cSt                |                |      |
| Viscosità cinematica max consentita all'avviamento<br><i>Max kinematic viscosity suggested at the start-up</i>                                                                                                                                                                      |                                                                                                                               |                                                        | VG= 750 cSt                         |                |      |
| Indice di viscosità consigliato<br><i>Viscosity index suggested</i>                                                                                                                                                                                                                 | VI > 100                                                                                                                      | Temperatura di esercizio<br><i>Working temperature</i> |                                     | -40°C ÷ +140°C |      |
| Grado di filtrazione / Oil filtering                                                                                                                                                                                                                                                |                                                                                                                               |                                                        | > 200 bar: 10 µm / < 200 bar: 25 µm |                |      |
| Pres. di aspirazione / Inlet pressure                                                                                                                                                                                                                                               |                                                                                                                               |                                                        | 0,85 ÷ 2 bar assoluti/absolut       |                |      |
| Senso di rotazione / Pump rotation                                                                                                                                                                                                                                                  |                                                                                                                               |                                                        | Unidirezionale / Unidirectional     |                |      |
| Verificare che la pompa sia posizionata almeno 100 mm sotto il livello minimo del serbatoio olio.<br>Prima di avviare la pompa effettuare spurgo aria.<br><i>Verify that pump is, at least, 100 mm under the minimum level of the tank. Before starting the pump bleed the air.</i> |                                                                                                                               |                                                        |                                     |                |      |

### Ingombro / Dimension 53+35 53+53 70+35 70+53

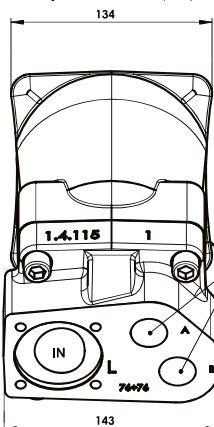
Pompa destra / Right pump



Albero/Shaft  
8x32x36  
(ISO14)



Pompa sinistra / Left pump

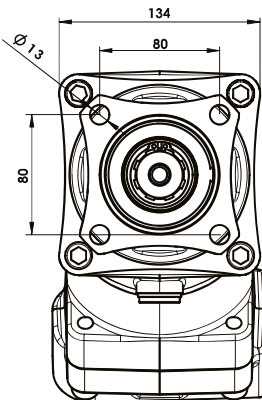
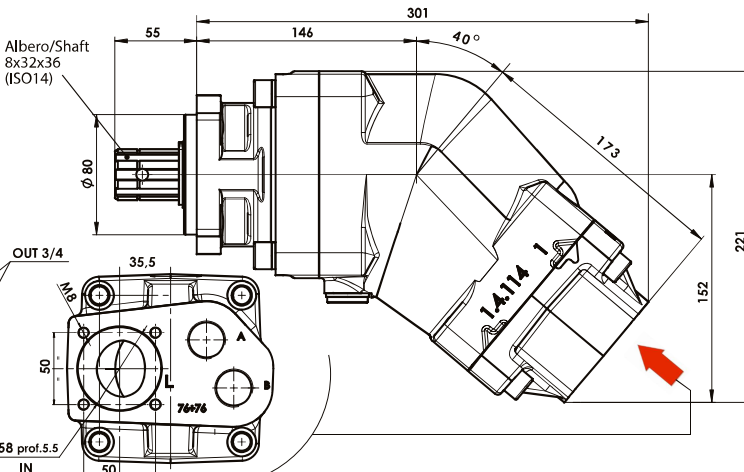


Albero/Shaft  
8x32x36  
(ISO14)

OUT 3/4



Ø 58 prol. 5.5  
IN



### Ingombro / Dimension 76+76

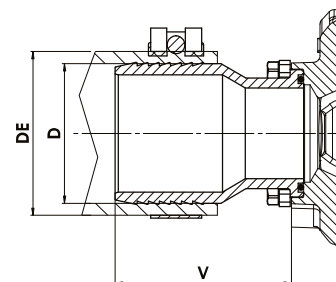
| Tipo pompa<br>Pump type | Rotazione<br>Rotation | Codice<br>Code | Gruppo corpo posteriore*<br>Rear cover assembly* | IN<br>ISO 228                                                                             | OUT<br>ISO 228 | Peso<br>Weight |
|-------------------------|-----------------------|----------------|--------------------------------------------------|-------------------------------------------------------------------------------------------|----------------|----------------|
| TWIN FLOW 53+35         | Destra / Right        | 60400115033    | 50002995101                                      | G 1 1/4"                                                                                  | G 3/4"         | 19,5 kg        |
|                         | Sinistra / Left       | 60400115039    | 50002995209                                      |                                                                                           |                |                |
| TWIN FLOW 53+53         | Destra / Right        | 60400115053    | 50002995307                                      | G 1 1/4"                                                                                  |                | 20 kg          |
|                         | Sinistra / Left       | 60400115059    | 50002995405                                      |                                                                                           |                |                |
| TWIN FLOW 70+35         | Destra / Right        | 60400117033    | 50002997001                                      | G 1 1/4"                                                                                  |                | 20,5 kg        |
|                         | Sinistra / Left       | 60400117039    | 50002997109                                      |                                                                                           |                |                |
| TWIN FLOW 70+53         | Destra / Right        | 60400117053    | 50002997403                                      | G 1 1/2"                                                                                  |                | 21 kg          |
|                         | Sinistra / Left       | 60400117059    | 50002997501                                      |                                                                                           |                |                |
| TWIN FLOW 76+76         | Destra / Right        | 60400117673    | 50002997618                                      | Ø58  |                | 24,5 kg        |
|                         | Sinistra / Left       | 60400117679    | 50002997609                                      |                                                                                           |                |                |

\* Per modificare il senso di rotazione della pompa, da rotazione **DESTRA IN SINISTRA, O VICEVERSA**, è necessario sostituire il corpo posteriore.

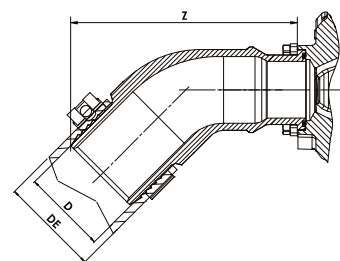
\* To change the pump rotation, the rear body must be replaced.

Raccordi validi SOLO per Twinflow 76+76 / Fittings suitable for Twinflow 76+76 ONLY

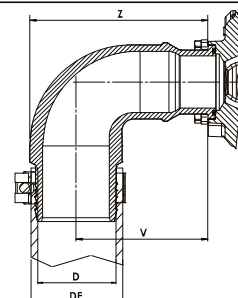
| Codice<br>Code | D  | DE    | V  | Peso<br>Weigth |
|----------------|----|-------|----|----------------|
|                | mm | mm    | mm | Kg             |
| 15511200507    | 50 | 60-63 | 59 | 0,59           |
| 15511200516    | 50 | 64-67 | 59 | 0,6            |
| 15511200605    | 60 | 68-73 | 79 | 0,77           |
| 15511200632    | 63 | 74-79 | 79 | 0,8            |
| 15511200767    | 76 | 86-91 | 94 | 1              |



| Codice<br>Code | D  | DE    | Z   | Peso<br>Weigth |
|----------------|----|-------|-----|----------------|
|                | mm | mm    | mm  | Kg             |
| 15511245639    | 63 | 74-79 | 163 | 1,75           |
| 15511245764    | 76 | 86-91 | 167 | 2,1            |

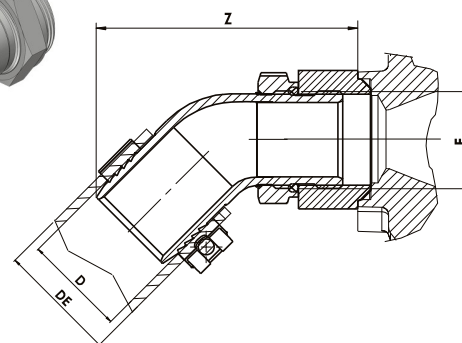
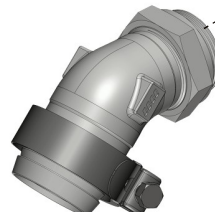
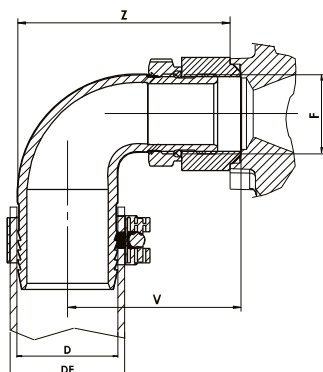
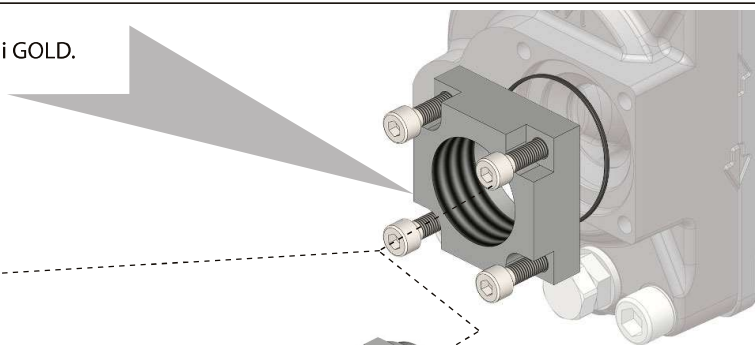


| Codice<br>Code | D  | DE    | V   | Z   | Peso<br>Weigth |
|----------------|----|-------|-----|-----|----------------|
|                | mm | mm    | mm  | mm  | Kg             |
| 15511290634    | 63 | 74-79 | 103 | 139 | 1,9            |
| 15511290769    | 76 | 86-91 | 103 | 140 | 2,3            |



### 15511300408

Kit flangia foro filettato G1-1/2, per montaggio raccordi GOLD.  
Flange kit G1-1/2 threaded hole, for mounting GOLD fittings.



| Codice<br>Code | F       | D  | DE    | V  | Z   | Peso<br>Weigth |
|----------------|---------|----|-------|----|-----|----------------|
|                | ISO 228 | mm | mm    | mm | mm  | Kg             |
| 15510000592    | G1-1/2  | 50 | 60-63 | 85 | 114 | 0,99           |
| 15510000609    |         |    | 64-67 |    |     | 1              |
| 15510000654    |         | 60 | 68-73 | 88 | 123 | 1,06           |

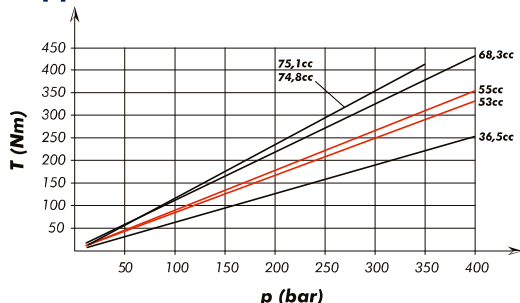
| Codice<br>Code | F       | D  | DE    | Z   | Peso<br>Weigth |
|----------------|---------|----|-------|-----|----------------|
|                | ISO 228 | mm | mm    | mm  | Kg             |
| 15509000540    | G1-1/2  | 50 | 60-63 | 133 | 0,79           |
| 15509000559    |         |    | 64-67 |     | 0,82           |
| 15509000611    |         | 60 | 68-73 | 153 | 1              |

| Caratteristiche tecniche funzionamento<br>Technical features                               | 53+35 | 53+53 | 70+35 | 70+53 | 76+76 |
|--------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|
| Cilindrata A / Displacement (cc/rev)                                                       | 36,5  | 53    | 36,5  | 53    | 75,1  |
| Cilindrata B / Displacement (cc/rev)                                                       | 55    | 55    | 68,3  | 66,2  | 74,8  |
| Pressione massima continua / Max. continuous pressure (bar)                                | 350   | 350   | 350   | 300   | 300   |
| Pressione massima picco / Max. peak pressure (bar)                                         | 400   | 400   | 400   | 350   | 350   |
| Velocità massima a vuoto / Max. speed without load (rpm)                                   | 2550  | 2550  | 2550  | 2550  | 2550  |
| Velocità massima con uscita A e B in press.<br>Max. speed with load on A and B outputs (*) | 1800  | 1800  | 1800  | 1650  | 1500  |
| Velocità massima con 1 porta in press.<br>Max. speed with load on 1 output only (*)        | 2100  | 2100  | 2100  | 2100  | 2100  |
| Potenza massima continua / Max. continuous power (kW)                                      | 94    | 111   | 108   | 98    | 110   |
| Potenza massima intermittente / Max. intermittent power (kW)                               | 107   | 127   | 123   | 114   | 129   |

Pressione massima continua / Max. continuous pressure (100%)  
Pressione massima di punta / Max. peak pressure (6 sec.max)

(\*) Velocità con tubo diam. interno 63mm (2"1/2) minimo.  
Speed with pipe internal diameter 63mm (2"1/2) minimum.

### Coppia teorica assorbita / Theoretical drive torque



La coppia assorbita dalla pompa deve essere calcolata come somma delle coppie necessarie per mandare in pressione le 2 mandate.  
The total torque absorbed by the pump is given by the sum of the torques necessary to give pressure to the pressure ports.

### Potenza teorica assorbita / Theoretical power input

La potenza totale è pari alla somma delle potenze richieste dai singoli utilizzi sulle 2 mandate.  
The total power absorbed by the pump is given by the sum of the power required by the two pressure ports.

$$P_{TOT} = P_A + P_B = \frac{(p_A \cdot Q_A + p_B \cdot Q_B)}{612}$$

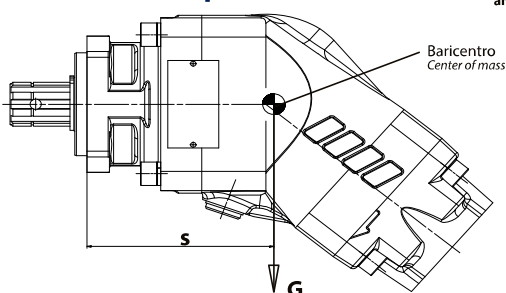
P [ kW ]  
Q [ l/min ]  
p [ bar ]

POMPA SINISTRA  
LEFT PUMP



POMPA DESTRA  
RIGHT PUMP

### Momento peso / Mass moment $M_{amm.} = s \times G$ (Nm)

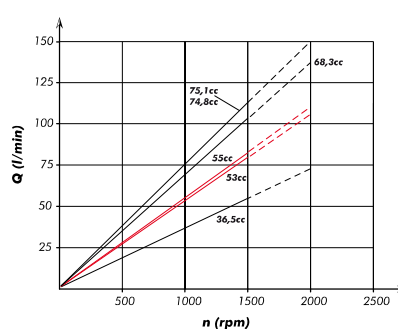


G=Peso in N  
(Peso in Kg x 9,81)  
G=Weight in N  
(Weight in Kg x 9,81)

Pompa 53+53 e 70+35: con tubo diam. interno 50mm (2") velocità max. 1200rpm.  
Pump 53+53 and 70+35: with pipe internal diameter 50mm (2") max. speed 1200rpm.

Pompa 70+53: solo con tubo diam. interno 63mm (2"1/2).  
Pump 70+53: only with pipe internal diameter 63mm (2"1/2).

### Portata teorica / Theoretical flow



La portata della pompa è pari alla somma delle portate delle 2 mandate.  
The total pump flow is given by the sum of the flow of each pressure port.

### Sceita del tubo di aspirazione How to choose the suction pipe size

| Q Portata<br>Flow | Ø interno min. tubo<br>Minimum pipe diameter |        | Velocità flusso<br>Flow speed |
|-------------------|----------------------------------------------|--------|-------------------------------|
| l/min             | mm                                           | inch   | (m/s)                         |
| 30                | 32                                           | 1" 1/4 | 0,62                          |
| 40                | 32                                           |        | 0,83                          |
| 50                | 38                                           |        | 0,74                          |
| 60                | 38                                           | 1" 1/2 | 0,88                          |
| 70                | 40                                           |        | 0,93                          |
| 80                | 45                                           |        | 0,84                          |
| 90                | 45                                           | 1" 3/4 | 0,94                          |
| 100               | 50                                           |        | 0,85                          |
| 110               | 50                                           |        | 0,93                          |
| 120               | 60                                           | 2"     | 0,71                          |
| 130               | 60                                           |        | 0,77                          |
| 140               | 60                                           |        | 0,83                          |
| 160               | 63                                           | 2" 3/8 | 0,86                          |
| 170               | 63                                           |        | 0,91                          |
| 180               | 63                                           |        | 0,96                          |

Per garantire corrette condizioni di aspirazione la velocità del flusso non deve superare 1m/sec.  
To ensure the proper suction pipe size the flow speed should not exceed 1mt/sec.

### Kit guarnizioni / Seal Kit

|                               |             |
|-------------------------------|-------------|
| 53+35 / 53+53 / 70+35 / 70+53 | 10890353533 |
| 76+76                         | 10890376769 |

|       | S     |
|-------|-------|
| 53+35 | 126,2 |
| 53+53 | 125,9 |
| 70+35 | 126   |
| 70+53 | 127,1 |
| 76+76 | 143   |