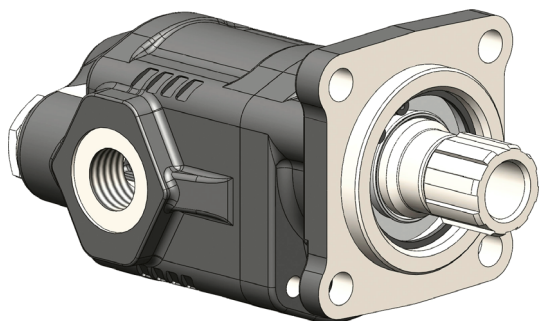
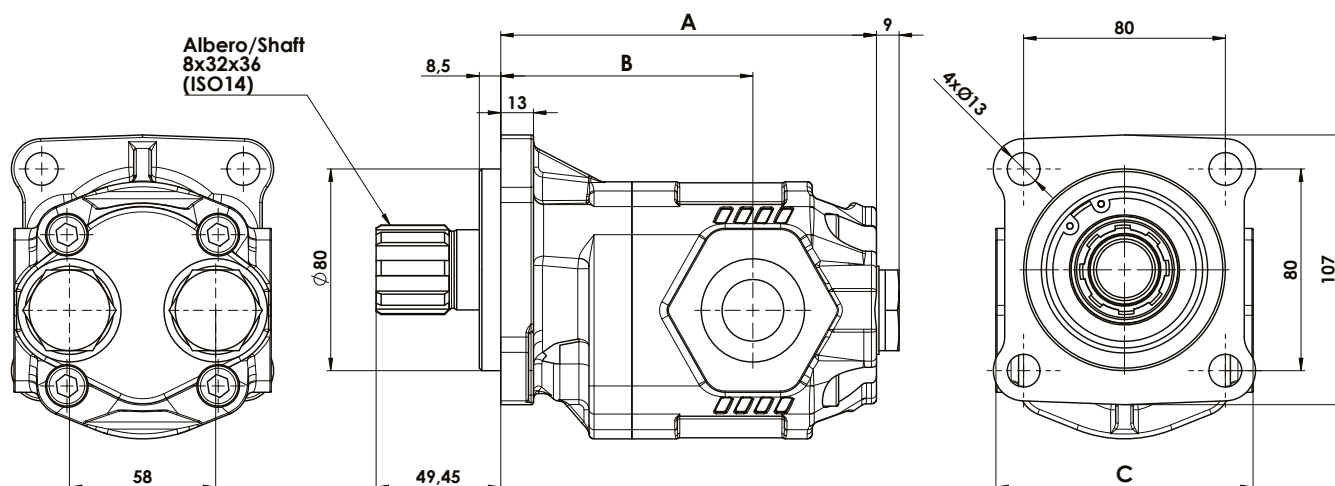




|                                                                                                                |                                                                                                                                               |                                                                     |                                      |       |      |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------|-------|------|
| Fluido idraulico<br><i>Fluid</i>                                                                               | Minerale o sintetico compatibile con guarnizioni:<br><i>Mineral or synthetic compatible with the following seals:</i><br>NBR, FKM, FPM, Nylon |                                                                     |                                      |       |      |
| Viscosità cinematica<br>consigliata<br><i>Kinematic viscosity<br/>suggested</i>                                | T media ambiente (°C)<br><i>Average ambient temp. (°C)</i>                                                                                    | < -10                                                               | -10÷10                               | 10÷35 | > 35 |
|                                                                                                                | VG (cSt = mm²/s)                                                                                                                              | 22                                                                  | 32                                   | 46    | 68   |
| 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> -15°C +100°C |                                      |       |      |
| Grado di filtrazione<br><i>Oil filtering</i>                                                                   |                                                                                                                                               |                                                                     | > 200 bar: 10 µm<br>< 200 bar: 25 µm |       |      |
| Pressione di aspirazione / <i>Inlet pressure</i>                                                               |                                                                                                                                               |                                                                     | -0,3 ÷ 2 bar                         |       |      |
| Senso di rotazione / <i>Pump rotation</i>                                                                      |                                                                                                                                               |                                                                     | Bidirezionale/ <i>Bidirectional</i>  |       |      |

### Ingombro / Dimensions



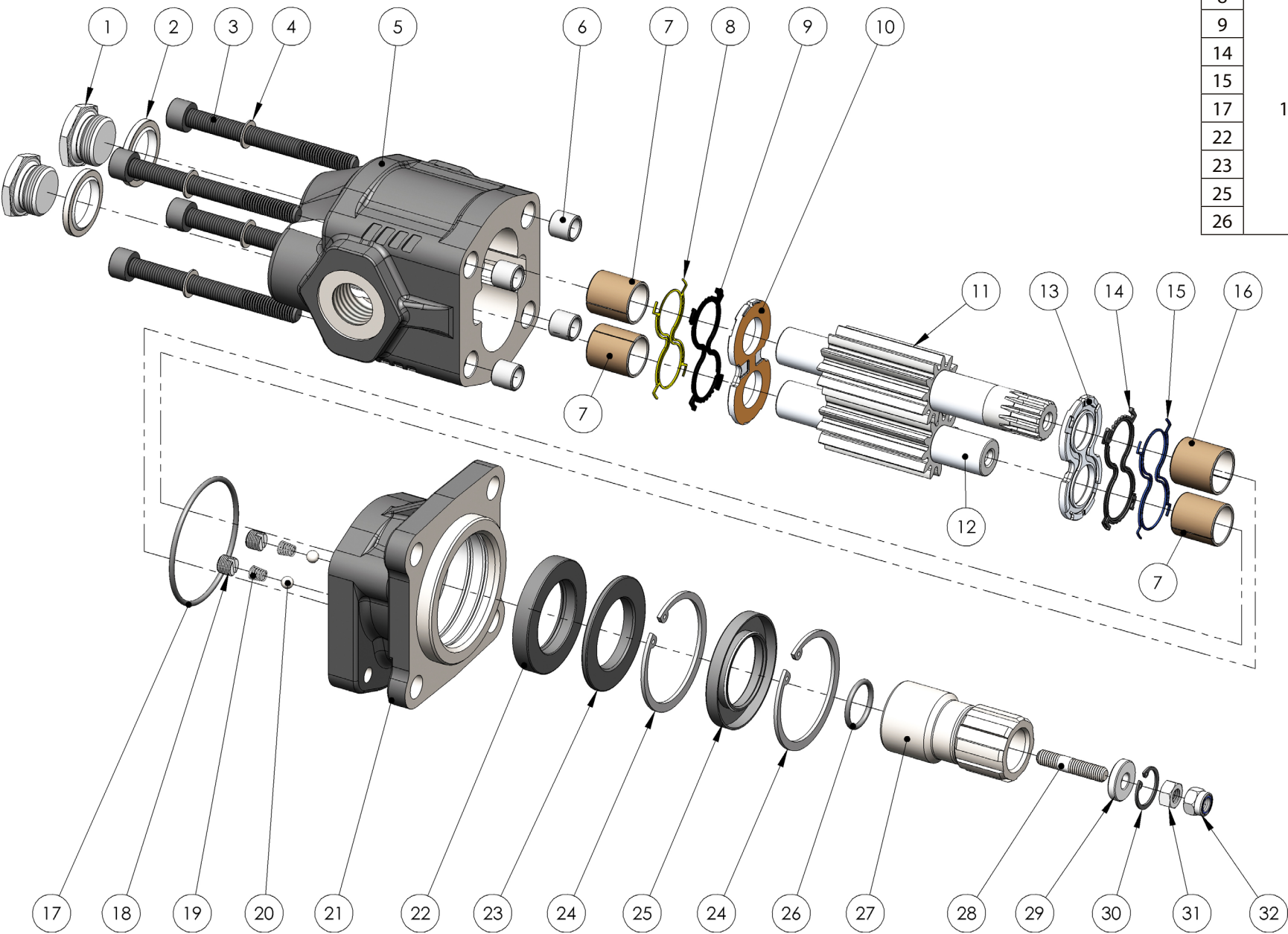
### Dati tecnici / Technical data

| Tipo pompa<br>Pump type | Codice ordinazione<br>Order code | IN      | OUT     | A     | B    | C   | Peso<br>Weight |
|-------------------------|----------------------------------|---------|---------|-------|------|-----|----------------|
|                         |                                  | ISO 228 | ISO 228 | mm    | mm   | mm  | Kg             |
| <b>NPLH-6</b>           | 10500440069                      | G 1/2   | G 1/2   | 108   | 74.5 | 98  | 5.2            |
| <b>NPLH-10</b>          | 10500440103                      |         |         | 114   | 80   |     | 5.8            |
| <b>NPLH-12</b>          | 10500440121                      |         |         |       |      |     | 6              |
| <b>NPLH-14</b>          | 10500440149                      |         |         | 120   | 74   | 102 | 6.2            |
| <b>NPLH-16</b>          | 10500440167                      |         |         | 123.5 | 77.5 |     | 6.4            |
| <b>NPLH-20</b>          | 10500440201                      | G 3/4   | G 3/4   | 130   | 84   |     | 6.8            |
| <b>NPLH-25</b>          | 10500440256                      |         |         | 140   | 89   |     | 7.2            |
| <b>NPLH-32</b>          | 10500440327                      |         |         | 149   | 100  |     | 7.8            |
| <b>NPLH-40</b>          | 10500440407                      |         |         | 164   | 111  | 106 | 8.3            |



**POMPE DA NON UTILIZZARE CON CARICHI ASSIALI E RADIALI SULL'ALBERO**  
NO AXIAL AND RADIAL LOADS ALLOWED ON PUMP SHAFT

| Kit guarnizioni / Seal Kit |             |
|----------------------------|-------------|
| 8                          | 10590000286 |
| 9                          |             |
| 14                         |             |
| 15                         |             |
| 17                         |             |
| 22                         |             |
| 23                         |             |
| 25                         |             |
| 26                         |             |
|                            |             |



| N° | 6 | 10 | 12 | 14 | 16 | 20 | 25 | 32 | 40 | Codice/Code  | Descrizione / Description          |                          | Q. |
|----|---|----|----|----|----|----|----|----|----|--------------|------------------------------------|--------------------------|----|
| 1  | . | .  | .  | .  | .  | .  | .  | .  | .  | 54000200110  | Tappo acciaio 1/2"                 | Steel plug 1/2"          | 2  |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 54000200129  | Tappo acciaio 3/4"                 | Steel plug 3/4"          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 11600910129  | Rondella acciaio gomma 1/2"        | Steel-rubber washer 1/2" |    |
| 2  | . | .  | .  | .  | .  | .  | .  | .  | .  | 11600910343  | Rondella acciaio gomma 3/4"        | Steel-rubber washer 3/4" | 2  |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 50200400592  | Vite TCE M10x50                    | Screw M10x50             |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 50200400609  | Vite TCE M10x55                    | Screw M10x55             |    |
| 3  | . | .  | .  | .  | .  | .  | .  | .  | .  | 50200410652  | Vite TCE M10x65                    | Screw M10x65             | 4  |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 50200410705  | Vite TCE M10x70                    | Screw M10x70             |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 50200410803  | Vite TCE M10x80                    | Screw M10x80             |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 50200410901  | Vite TCE M10x90                    | Screw M10x90             |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 50200400690  | Vite TCE M10x100                   | Screw M10x100            |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 50102000101  | Rondella elastica                  | Washer                   |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 51703300069  |                                    |                          |    |
| 5  | . | .  | .  | .  | .  | .  | .  | .  | .  | 51703300103  | Corpo pompa                        | Gear housing             | 1  |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 51703300121  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 51703300149  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 51703300167  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 51703300201  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 51703300256  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 51703300327  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 51703300407  |                                    |                          |    |
| 6  | . | .  | .  | .  | .  | .  | .  | .  | .  | 50100300282  | Spine forate di centraggio 14x10.5 | Pins 14x10.5             | 4  |
| 7  | . | .  | .  | .  | .  | .  | .  | .  | .  | 53300400122  | Boccole autolub. 20x23x20          | Bushing 20x23x20         | 3  |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 53300400239  | Boccole autolub. 20x23x25          | Bushing 20x23x25         |    |
| 8  | . | .  | .  | .  | .  | .  | .  | .  | .  | 50600002390  | Guarnizione antiestrusione         | Back-up ring             | 1  |
| 9  | . | .  | .  | .  | .  | .  | .  | .  | .  | 50600002381  | Guarnizione per rasamento          | Thrust plate seal        | 1  |
| 10 | . | .  | .  | .  | .  | .  | .  | .  | .  | 51001000257A | Rasamento                          | Thrust plate             | 1  |
| 11 | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500068  | Albero dentato conduttore          | Drive shaft              | 1  |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500102  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500120  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500148  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500166  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500200  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500255  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500326  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500406  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500077  |                                    |                          |    |
| 12 | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500111  | Albero dentato condotto            | Driven shaft             | 1  |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500139  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500157  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500175  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500219  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500264  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500335  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 52301500415  |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 51001000239A |                                    |                          |    |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 50600002336  |                                    |                          |    |
| 13 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50600002336  | Guarnizione per rasamento          | Thrust plate seal        | 1  |
| 14 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50600002345  | Guarnizione antiestrusione         | Back-up ring             | 1  |
| 15 | . | .  | .  | .  | .  | .  | .  | .  | .  | 53300400113  | Boccole autolub. 22x25x25          | Bushing 22x25x25         | 1  |
| 16 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50600200701  | Guarnizione OR                     | O-Ring                   | 1  |
| 17 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50400000412  | Grano valvola lubrificazione       | Lube valve screw         | 2  |
| 18 | . | .  | .  | .  | .  | .  | .  | .  | .  | 51200400251  | Molla conica                       | Tapered spring           | 2  |
| 19 | . | .  | .  | .  | .  | .  | .  | .  | .  | 51000900054  | Sfera 1/4"                         | Ball 1/4"                | 2  |
| 20 | . | .  | .  | .  | .  | .  | .  | .  | .  | 51800300287  | Coperchio anteriore                | Mounting cover           | 1  |
|    | . | .  | .  | .  | .  | .  | .  | .  | .  | 51800300401  |                                    |                          |    |
| 21 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50602138624  | Guarnizione paraolio               | Oil seal                 | 1  |
| 22 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50602238623  | Anello paraolio                    | Oil seal ring            | 1  |
| 23 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50100100588  | Anello seeger                      | Seeger ring              | 2  |
| 24 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50600738627  | Guarnizione paraolio               | Oil seal                 | 1  |
| 25 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50600200176  | Guarnizione OR                     | O-Ring                   | 1  |
| 26 | . | .  | .  | .  | .  | .  | .  | .  | .  | 11400500227  | Manicotto                          | Coupling                 | 1  |
| 27 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50300300028  | Prigioniero M8x28                  | Stud bolt M8x28          | 1  |
| 28 | . | .  | .  | .  | .  | .  | .  | .  | .  | 52900400774  | Distanziale                        | Spacer                   | 1  |
| 29 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50100100186  | Anello seeger                      | Seeger ring              | 1  |
| 30 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50500300033  | Dado M8 CH13 H6.5                  | Nut M8 CH13 H6.5         | 1  |
| 31 | . | .  | .  | .  | .  | .  | .  | .  | .  | 50501000089  | Dado autb. M8 CH13 H8              | Nut M8 CH13 H8           | 1  |
| 32 | . | .  | .  | .  | .  | .  | .  | .  | .  |              |                                    |                          |    |

### CARATTERISTICHE TECNICHE DI FUNZIONAMENTO - TECHNICAL FEATURES

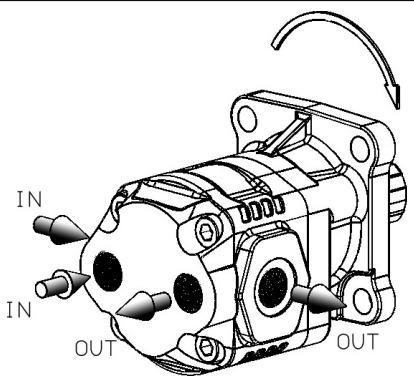
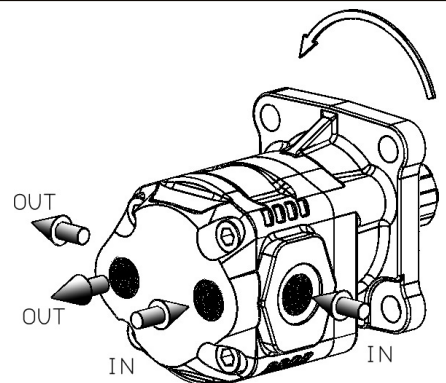
| Tipo pompa<br>Pump type | Cilindrata<br>Displacement | Pressione<br>Pressure |     |     | Velocità max.<br>continua<br>Max. continuous<br>speed | Velocità max.<br>intermittente<br>Max. intermittent<br>speed | Velocità<br>min.<br>Min. speed |
|-------------------------|----------------------------|-----------------------|-----|-----|-------------------------------------------------------|--------------------------------------------------------------|--------------------------------|
|                         |                            | P1                    | P2  | P3  |                                                       |                                                              |                                |
|                         | cm <sup>3</sup> /rev       | bar                   | bar | bar | rpm                                                   | rpm                                                          | rpm                            |
| <b>NPLH-6</b>           | 6,3                        | 280                   | 310 | 325 | 2200                                                  | 3000                                                         | 300                            |
| <b>NPLH-10</b>          | 10,06                      |                       |     |     |                                                       |                                                              |                                |
| <b>NPLH-12</b>          | 11,92                      |                       |     |     |                                                       |                                                              |                                |
| <b>NPLH-14</b>          | 13,8                       |                       |     |     |                                                       |                                                              |                                |
| <b>NPLH-16</b>          | 16,03                      |                       |     |     |                                                       |                                                              |                                |
| <b>NPLH-20</b>          | 20,1                       | 260                   | 280 | 290 | 2000                                                  | 2800                                                         |                                |
| <b>NPLH-25</b>          | 25,1                       | 220                   | 250 | 260 |                                                       |                                                              |                                |
| <b>NPLH-32</b>          | 32,04                      | 190                   | 210 | 220 |                                                       |                                                              |                                |
| <b>NPLH-40</b>          | 39,9                       | 160                   | 180 | 190 | 1800                                                  | 2500                                                         |                                |

P1=Pressione max.continua  
P2=Pressione max. intermittente  
P3=Pressione max. di punta

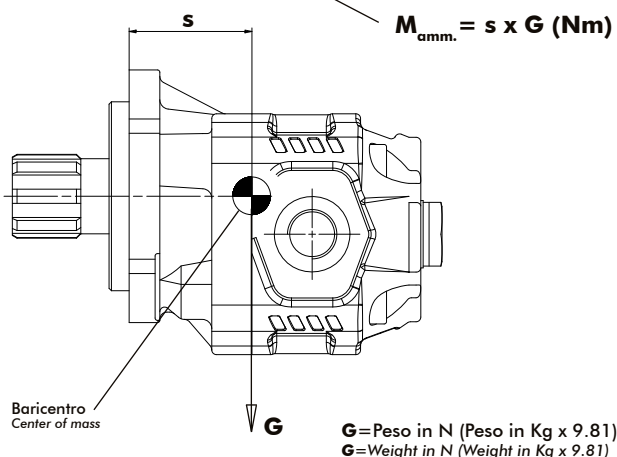
Max. continuous pressure  
Max. Intermittent pressure  
Max. peak pressure

(100%)  
(20 sec.max.)  
(6 sec.max)

### IDENTIFICAZIONE ASPIRAZIONE/MANDATA / SUCTION/DELIVERY IDENTIFICATION:

| Rotazione antioraria, pompa sinistra<br>Anti-clockwise rotation, left pump          | Rotazione oraria, pompa destra<br>Clockwise rotation, right pump                     |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |

### MOMENTO PESO / MASS MOMENT



| Tipo pompa - Pump type | S  |
|------------------------|----|
| <b>NPLH-6</b>          | 53 |
| <b>NPLH-10</b>         | 55 |
| <b>NPLH-12</b>         | 56 |
| <b>NPLH-14</b>         | 57 |
| <b>NPLH-16</b>         | 58 |
| <b>NPLH-20</b>         | 61 |
| <b>NPLH-25</b>         | 64 |
| <b>NPLH-32</b>         | 69 |
| <b>NPLH-40</b>         | 77 |