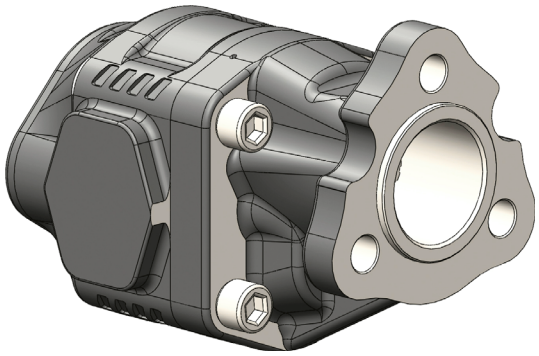
# POMPE AD INGRANAGGI 3 FORI-13 DIN CON UTILIZZI POSTERIORI

## 3 HOLES-13 DIN GEAR PUMPS WITH REAR PORTS

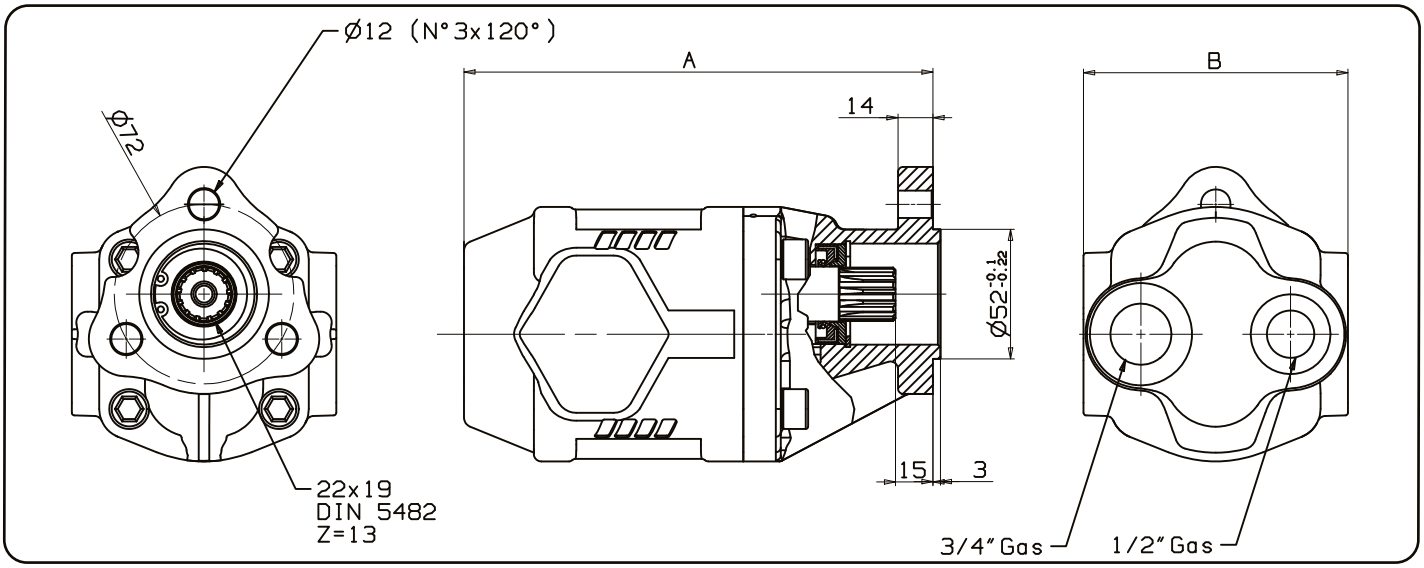
**CODICE FAMIGLIA** *FAMILY CODE* **105003**

**NPLA 13 DIN**

25/03/2021
99740010510
24/02/2012
Rev: AC
99710500301



| | | | | | |
|---|---|---|---|---|---|
| Fluido idraulico *Fluid* | Minerale o sintetico compatibile con guarnizioni: *Mineral or synthetic compatible with the following seals:* NBR, FKM, FPM, Nylon | | | | |
| Viscosità cinematica consigliata *Kinematic viscosity suggested* | T media ambiente (°C) *Average ambient temp. (°C)* | < -10 | -10÷10 | 10÷35 | > 35 |
| | VG (cSt = mm²/s) | 22 | 32 | 46 | 68 |
| Viscosità cinematica ottimale di esercizio *Optimale kinematic viscosity* | | | | | VG= 10 cSt ÷ 100 cSt |
| Viscosità cinematica max consentita all'avviamento *Max kinematic viscosity suggested at the start-up* | | | | | VG= 750 cSt |
| Indice di viscosità consigliato *Viscosity index suggested* | VI > 100 | Temperatura di esercizio *Working temperature* | | | -15°C +100°C |
| Grado di filtrazione *Oil filtering* | | | | | > 200 bar: 10 µm<br>< 200 bar: 25 µm |
| Pressione di aspirazione *Inlet pressure* | | | | | -0,3 ÷ 2 bar |
| Senso di rotazione *Pump rotation* | | | | | Unidirezionale *Unidirectional* |



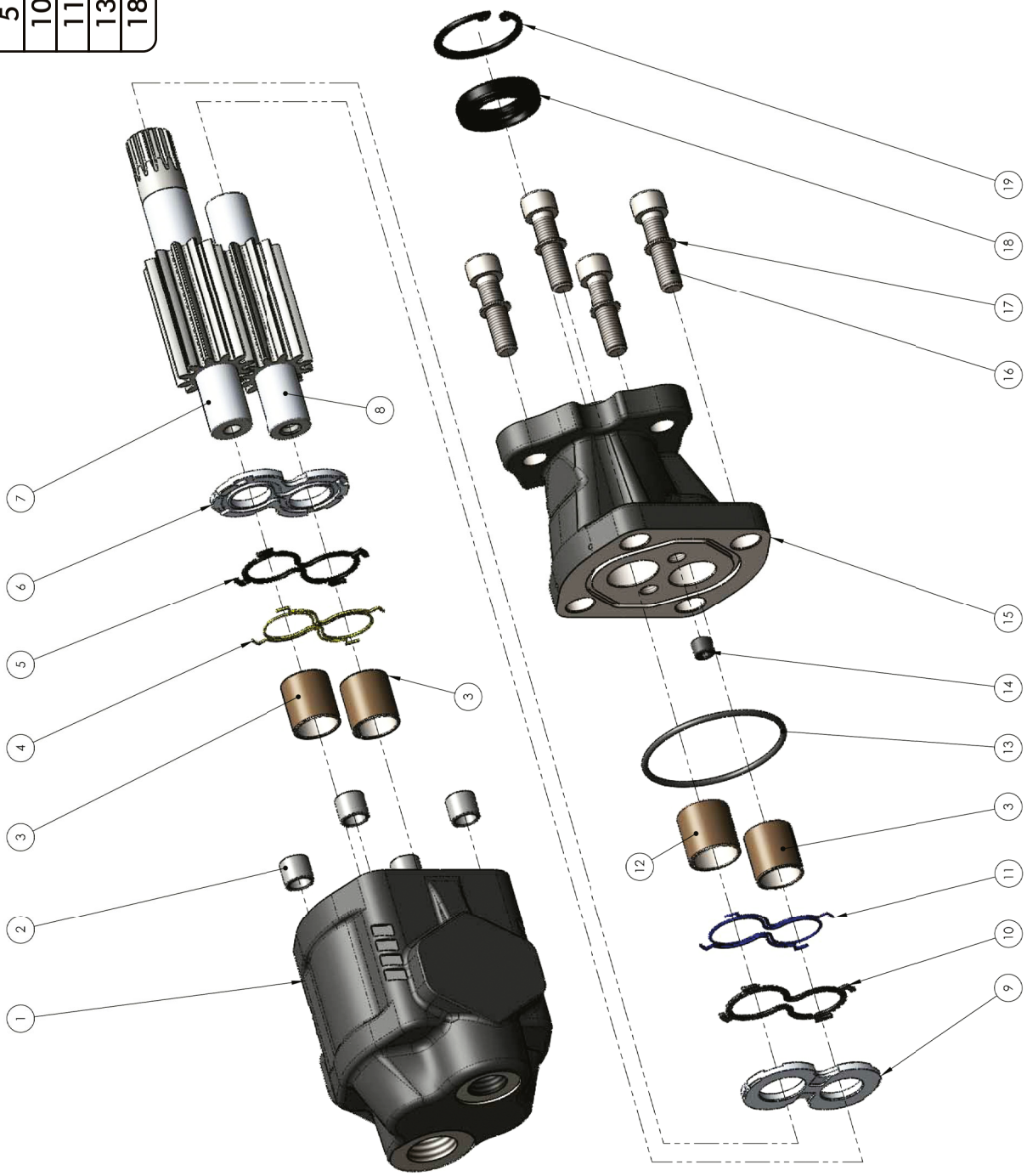

| Tipo pompa *Pump type* | Rotazione *Rotation* | | IN | OUT | A | B | Peso *Weight* |
|---|---|---|---|---|---|---|---|
| | Destra *Right* | Sinistra *Left* | ISO 228 | ISO 228 | mm | mm | Kg |
| **NPLA-06** | 10500300078 | 10500300069 | G 3/4 | G 1/2 | 132 | 98 | 5 |
| **NPLA-10** | 10500300111 | 10500300102 | | | 138 | | 5.2 |
| **NPLA-12** | 10500300139 | 10500300120 | | | | | |
| **NPLA-14** | 10500300157 | 10500300148 | | | 144 | 102 | 5.4 |
| **NPLA-16** | 10500300175 | 10500300166 | | | 147,5 | | 5.6 |
| **NPLA-20** | 10500300219 | 10500300200 | | | 154 | | 5.9 |
| **NPLA-25** | 10500300264 | 10500300255 | | | 162 | | 6.5 |
| **NPLA-32** | 10500300335 | 10500300326 | | | 173 | | 7 |
| **NPLA-40** | 10500300415 | 10500300406 | | | 188 | 106 | 7.5 |



O.M.F.B. S.p.A. Hydraulic Components

Via Cave, 7/9 25050 Provaglio d'Iseo (Brescia) Italy Tel.: +39.030.9830611
Fax: +39.030.9839207-208 Internet:www.omfb.it e-mail:contatti@omfb.it

| **Kit guarnizioni** / *Seal Kit* | 10590000553 |
|---|---|
| 4 | |
| 5 | |
| 10 | |
| 11 | |
| 13 | |
| 18 | |

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OMFB HYDRAULIC COMPONENTS

| N° | 06 | 10 | 12 | 14 | 16 | 20 | 25 | 32 | 40 | Codice/Code | Descrizione / Description | | Q. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | • | | | | | | | | | 51702700067 | Corpo pompa | Gear housing | 1 |
| | | • | | | | | | | | 51702700101 | | | |
| | | | • | | | | | | | 51702700129 | | | |
| | | | | • | | | | | | 51702700147 | | | |
| | | | | | • | | | | | 51702700165 | | | |
| | | | | | | • | | | | 51702700209 | | | |
| | | | | | | | • | | | 51702700254 | | | |
| | | | | | | | | • | | 51702700325 | | | |
| | | | | | | | | | • | 51702700405 | | | |
| 2 | • | • | • | • | • | • | • | • | • | 50100300282 | Spine forate di centraggio 14x12.5 | Pins 14x12.5 | 4 |
| 3 | • | • | • | • | • | • | • | • | | 53300400122 | Boccola autolub. 20x23x20 | Bushing 20x23x20 | 3 |
| | | | | | | | | | • | 53300400239 | Boccola autolub. 20x23x25 | Bushing 20x23x25 | |
| 4 | • | • | • | • | • | • | • | • | • | 50600002390 | Guarnizione antiestrusione | Back-up ring | 1 |
| 5 | • | • | • | • | • | • | • | • | • | 50600002381 | Guarnizione per rasamento | Thrust plate seal | 1 |
| 6 | • | • | • | • | • | • | • | • | • | 51001000275 | Rasamento ad occhiale | Thrust plate | 1 |
| 7 | • | | | | | | | | | 52301500068 | Albero dentato conduttore | Drive shaft | 1 |
| | | • | | | | | | | | 52301500102 | | | |
| | | | • | | | | | | | 52301500120 | | | |
| | | | | • | | | | | | 52301500148 | | | |
| | | | | | • | | | | | 52301500166 | | | |
| | | | | | | • | | | | 52301500200 | | | |
| | | | | | | | • | | | 52301500255 | | | |
| | | | | | | | | • | | 52301500326 | | | |
| | | | | | | | | | • | 52301500406 | | | |
| 8 | • | | | | | | | | | 52301500077 | Albero dentato condotto | Driven shaft | 1 |
| | | • | | | | | | | | 52301500111 | | | |
| | | | • | | | | | | | 52301500139 | | | |
| | | | | • | | | | | | 52301500157 | | | |
| | | | | | • | | | | | 52301500175 | | | |
| | | | | | | • | | | | 52301500219 | | | |
| | | | | | | | • | | | 52301500264 | | | |
| | | | | | | | | • | | 52301500335 | | | |
| | | | | | | | | | • | 52301500415 | | | |
| 9 | • | • | • | • | • | • | • | • | • | 51001000266 | Rasamento ad occhiale | Thrust plate | 1 |
| 10 | • | • | • | • | • | • | • | • | • | 50600002336 | Guarnizione per rasamento | Thrust plate seal | 1 |
| 11 | • | • | • | • | • | • | • | • | • | 50600002345 | Guarnizione antiestrusione | Back-up ring | 1 |
| 12 | • | • | • | • | • | • | • | • | • | 53300400113 | Boccola autolub. 22x25x25 | Bushing 22x25x25 | 1 |
| 13 | • | • | • | • | • | • | • | • | • | 50600200701 | Guarnizione OR | O-Ring | 1 |
| 14 | • | • | • | • | • | • | • | • | • | 50401000063 | Grano conico 1/8" | Plug 1/8" | 1 |
| 15 | • | • | • | • | • | • | • | • | | 51800300250 | Coperchio anteriore | Mounting cover | 1 |
| | | | | | | | | | • | 51800300394 | | | |
| 16 | • | • | • | | | | | | | 50200400565 | Vite TCE M10x35 UNI 5931 | Screw M10x35 UNI 5931 | 4 |
| | | | | • | • | • | • | • | • | 50200400574 | Vite TCE M10x40 UNI 5931 | Screw M10x40 UNI 5931 | |
| 17 | • | • | • | • | • | • | • | • | • | 50102000101 | Rondella elastica Schnorr | Washer Schnorr | 4 |
| 18 | • | • | • | • | • | • | • | • | • | 50602422405 | Guarnizione paraolio | Oil seal | 1 |
| 19 | • | • | • | • | • | • | • | • | • | 50100100373 | Anello elastico | Circlip | 1 |



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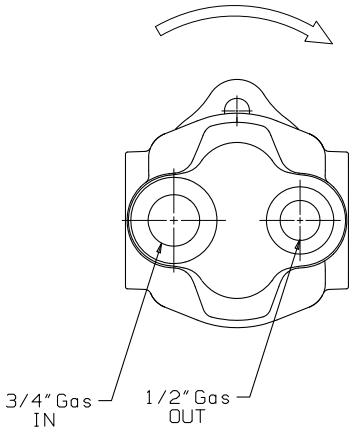
# CARATTERISTICHE TECNICHE DI FUNZIONAMENTO
*TECHNICAL FEATURES*

| **Tipo pompa** *Pump type* | **Cilindrata** *Displacement* | **Pressione** *Pressure* | | | **Velocità max. continua** *Max. continuous speed* | **Velocità max. intermittente** *Max. intermittent speed* | **Velocità min.** *Min. speed* |
|---|---|---|---|---|---|---|---|
| | | P1 | P2 | P3 | | | |
| | cm³/rev | bar | bar | bar | rpm | rpm | rpm |
| **NPLA-06** | 6,3 | 200 | 220 | 240 | 2200 | 3000 | 300 |
| **NPLA-10** | 10,062 | | | | | | |
| **NPLA-12** | 11,92 | | | | | | |
| **NPLA-14** | 13,8 | | | | | | |
| **NPLA-16** | 16,035 | | | | | | |
| **NPLA-20** | 20,123 | | | | | | |
| **NPLA-25** | 25,154 | | | | | | |
| **NPLA-32** | 32,042 | 180 | 200 | 220 | 2000 | 2800 | |
| **NPLA-40** | 39,933 | 150 | 170 | 190 | 1800 | 2500 | |

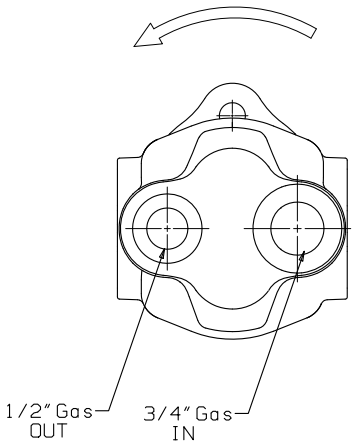
P1=Pressione max.continua — *Max. continuous pressure* — (100%)
P2=Pressione max. intermittente — *Max. Intermittent pressure* — (20 sec.max.)
P3=Pressione max. di punta — *Max. peak pressure* — (6 sec.max)

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

## Rotazione antioraria, pompa sinistra
*Anti-clockwise rotation, left pump*

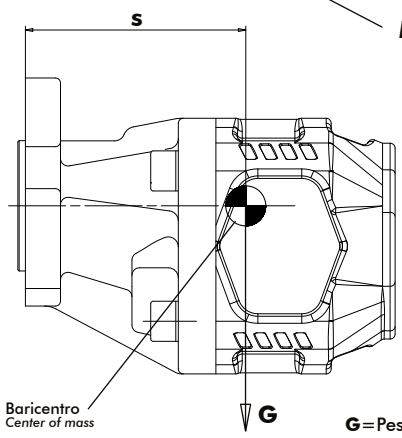



## Rotazione oraria, pompa destra
*Clockwise rotation, right pump*




## 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)*

| **Tipo pompa** - *Pump type* | **S** |
|---|---|
| **NPLA-06** | 82.5 |
| **NPLA-10** | 83 |
| **NPLA-12** | 84 |
| **NPLA-14** | 85.5 |
| **NPLA-16** | 87 |
| **NPLA-20** | 91 |
| **NPLA-25** | 93 |
| **NPLA-32** | 102 |
| **NPLA-40** | 108 |

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