

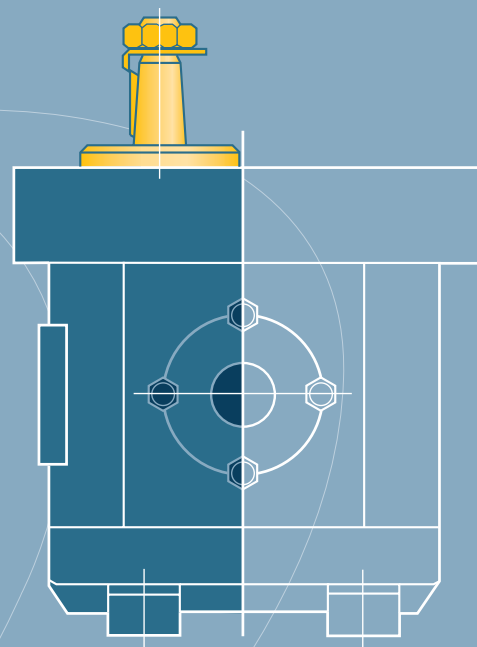


**HYDROVEN**  
OLEODINAMICA



**\*POMPE** ad ingranaggi  
GEAR PUMPS

# ► POMPE ad ingranaggi



4 POMPE AD INGRANAGGI - CARATTERISTICHE TECNICHE  
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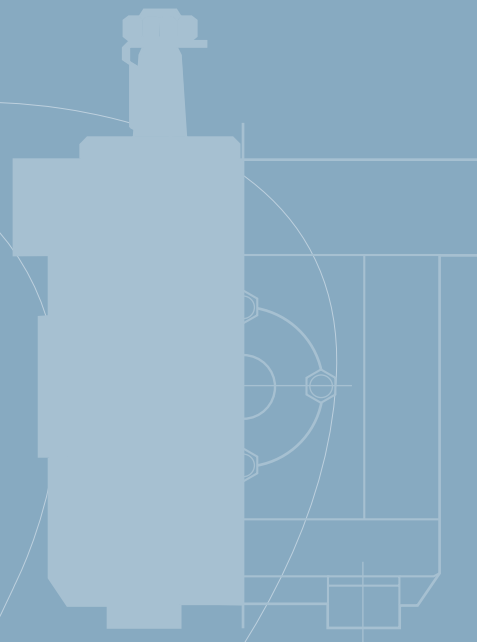
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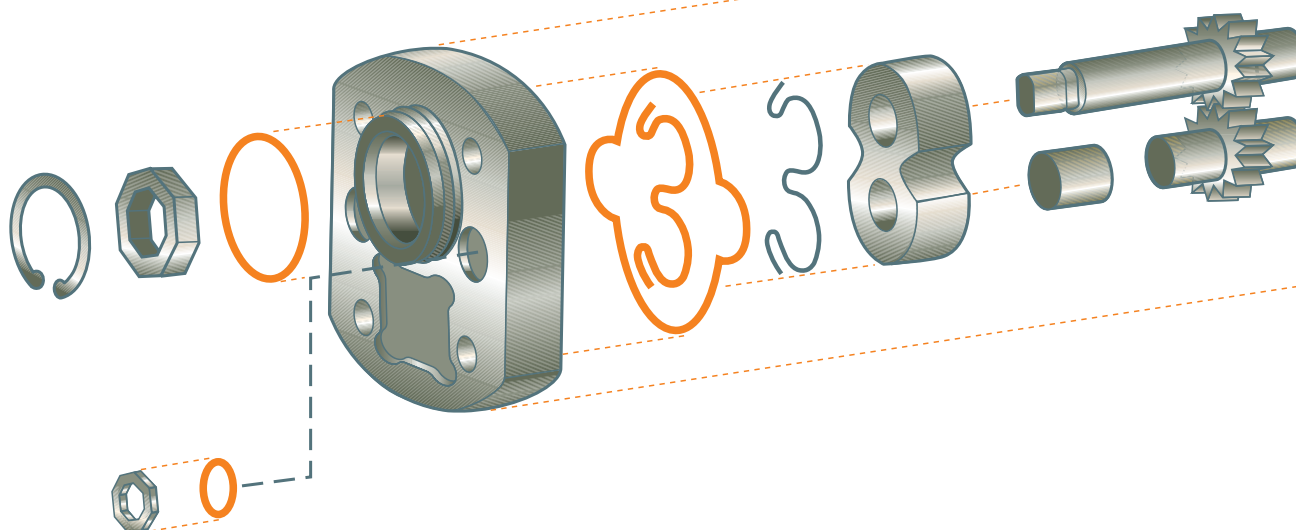
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### CARATTERISTICHE TECNICHE

**OLIO.** Usare olii idraulici a base minerale HLP, HV (DIN 51524) con viscosità 20÷40 cSt a temperatura 50 °C. Gradazione SAE 10÷30 in funzione della temperatura di esercizio.

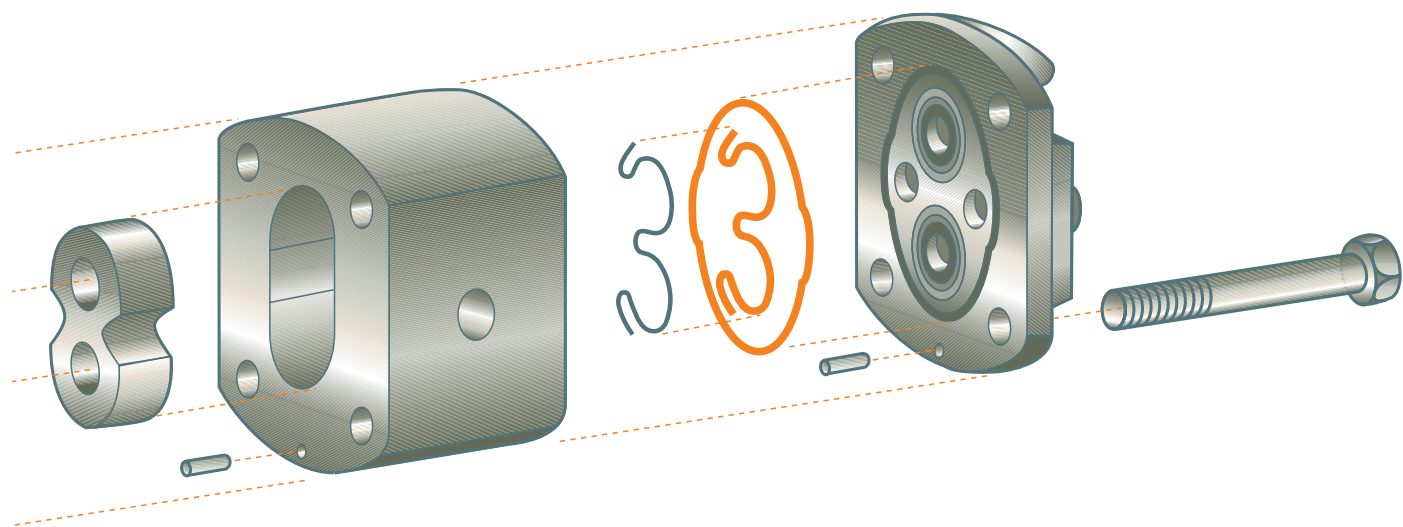
**FILTRAGGIO.** In aspirazione usare una cartuccia filtro da 30÷60 Micron. In mandata usare una cartuccia filtro da 10÷25 Micron.

**TEMPERATURA.** La temperatura di esercizio deve essere mantenuta tra -10 °C e +60 °C.

**VELOCITÀ OLIO MAX CONSIGLIATE.** In aspirazione 0.5÷1.0 m/sec.; in mandata 3÷5.5 m/sec.; in ritorno 1.5÷2.5 m/sec. Le velocità sono riferite ad olio con viscosità 20÷40 cSt a temperatura 50 °C e tubi con lunghezze di 1.5÷3 m; per lunghezze maggiori tenere i diametri dei fori di passaggio più grandi.

**VISCOSITÀ OLIO.** Minima ammissibile 8.5 cSt; massima ammissibile all'avviamento 1500 cSt.

**FUNZIONAMENTO CON ACQUE GLICOLE.** La pressione non deve superare i 100 bar. La velocità non deve essere superiore a 1000 giri/min. Per prestazioni superiori consultare il nostro Ufficio Tecnico.



## TECHNICAL DETAILS

**OIL.** Use hydraulic mineral oils HLP, HV (DIN 51524) with 20÷40 cSt viscosity at a temperature of 50 °C. SAE number 10÷30 depending on operating temperature.

**FILTRATION.** At the inlet, use a 30÷60 Micron filter cartridge. At the outlet, use a 10÷25 Micron filter cartridge.

**TEMPERATURE.** Operating temperature should be maintained between -10 °C and ÷60 °C.

**MAX RECOMMENDED OIL SPEED.** At the inlet 0.5÷1.0 m/sec.; at the outlet 3÷5.5 m/sec.; at the returning pipe 1.5÷2.5 m/sec. The velocities are valid for a viscosity of 20÷40 cSt at a temperature of 50 °C and pipes 1.5÷3 m long; for greater lengths keep the hole diameters larger.

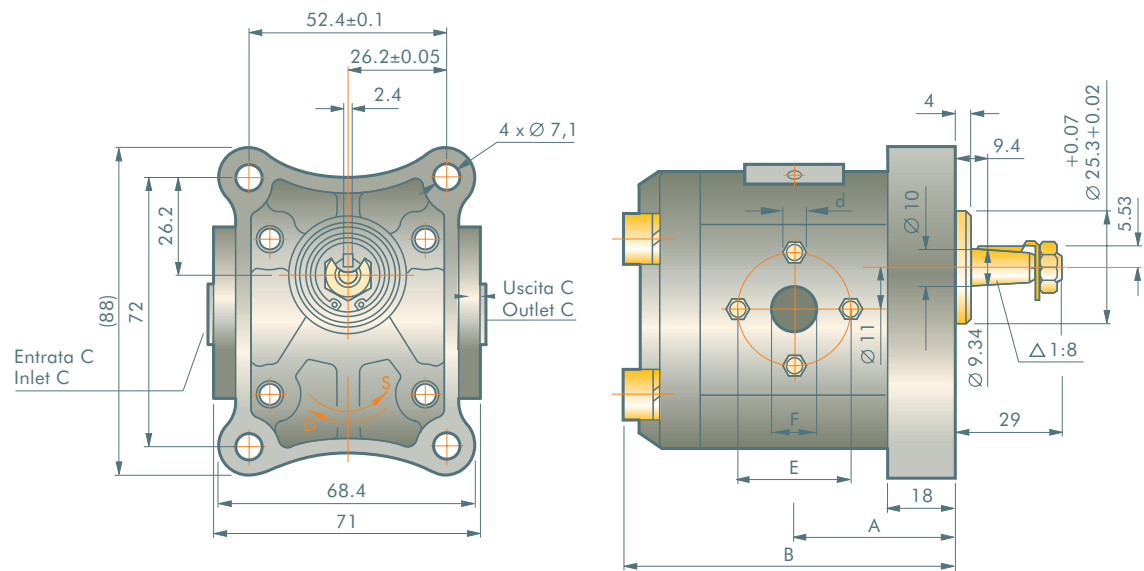
**OIL VISCOSITY.** Minimum admissible 8.5 cSt; maximum admissible on start-up 1500 cSt.

**OPERATION WITH GLYCOLWATER.** Pressure must not exceed 100 bar. Speed must not exceed 1000 rpm. For higher performances please contact our technical department.

POMPA ALBERO CONICO

BASE Ø 25.3

PUMP TAPERED SHAFT BASE Ø 25.3



CILINDRATA DISPLACEMENT cm³

|                                        |                       | 1    | 1.25 | 1.6  | 2    | 2.5  | 3.15 | 3.65 | 4.2  | 5    | 6.1  |
|----------------------------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|
| Pressione nominale<br>Nominal pressure | bar                   | 250  | 250  | 250  | 250  | 250  | 250  | 250  | 230  | 200  | 200  |
| Giri minimi<br>Minimal speed           | giri/minuto<br>r.p.m. | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  |
| Giri massimi<br>Maximal speed          | giri/minuto<br>r.p.m. | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | 3000 | 3000 |

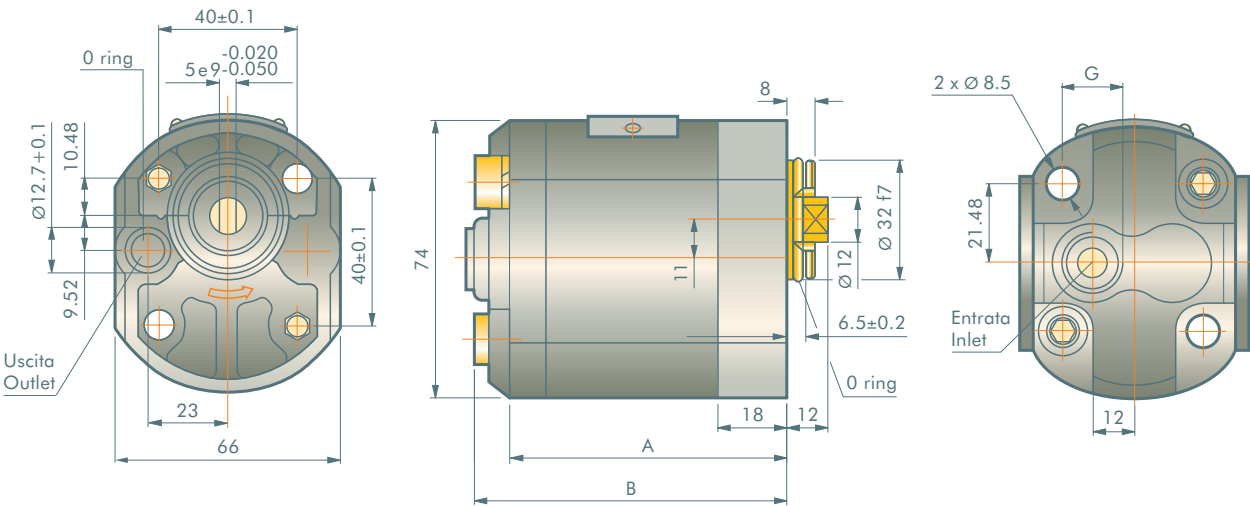
DIMENSIONE DIMENSION

| TIPO<br>TYPE     | CILINDRATA<br>DISPLACEMENT<br>cm³ | A<br>mm | B<br>mm | ENTRATA INLET |    |         | USCITA OUTLET |    |         |         |      |
|------------------|-----------------------------------|---------|---------|---------------|----|---------|---------------|----|---------|---------|------|
|                  |                                   |         |         | E             | d  | F<br>mm | E             | d  | F<br>mm | M       | G    |
| PS(D)-1/1 E18    | 1                                 | 39.1    | 81      | 30            | M6 | 12      | 30            | M6 | 12      | M16x1,5 | 3/8" |
| PS(D)-1/1.25 E18 | 1.25                              | 39.5    | 82      | 30            | M6 | 12      | 30            | M6 | 12      | M16x1,5 | 3/8" |
| PS(D)-1/1.6 E18  | 1.6                               | 40.3    | 83.6    | 30            | M6 | 12      | 30            | M6 | 12      | M16x1,5 | 3/8" |
| PS(D)-1/2 E18    | 2                                 | 41.1    | 85.2    | 30            | M6 | 12      | 30            | M6 | 12      | M16x1,5 | 3/8" |
| PS(D)-1/2.5 E18  | 2.5                               | 42.1    | 87.2    | 30            | M6 | 12      | 30            | M6 | 12      | M16x1,5 | 3/8" |
| PS(D)-1/3.15 E18 | 3.15                              | 43.5    | 89.8    | 30            | M6 | 12      | 30            | M6 | 12      | M16x1,5 | 3/8" |
| PS(D)-1/3.65 E18 | 3.65                              | 44.4    | 91.9    | 30            | M6 | 12      | 30            | M6 | 12      | M16x1,5 | 3/8" |
| PS(D)-1/4.2 E18  | 4.2                               | 45.5    | 94.1    | 30            | M6 | 12      | 30            | M6 | 12      | M16x1,5 | 3/8" |
| PS(D)-1/5 E18    | 5                                 | 47.1    | 97.2    | 30            | M6 | 12      | 30            | M6 | 12      | M16x1,5 | 3/8" |
| PS(D)-1/6 E18    | 6.1                               | 49.4    | 101.8   | 30            | M6 | 12      | 30            | M6 | 12      | M16x1,5 | 3/8" |

POMPA **MODELLO BH**

CODOLO FRESATO BASE Ø 32

BH TYPE PUMP MILLED SHANK BASE Ø 32



CILINDRATA DISPLACEMENT cm³

|                                        |                       | 1    | 1.25 | 1.6  | 2    | 2.5  | 3.15 | 3.65 | 4.2  | 5    | 6.1  |
|----------------------------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|
| Pressione nominale<br>Nominal pressure | bar                   | 250  | 250  | 250  | 250  | 250  | 250  | 250  | 230  | 200  | 200  |
| Giri minimi<br>Minimal speed           | giri/minuto<br>r.p.m. | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  |
| Giri massimi<br>Maximal speed          | giri/minuto<br>r.p.m. | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | 3000 | 3000 |

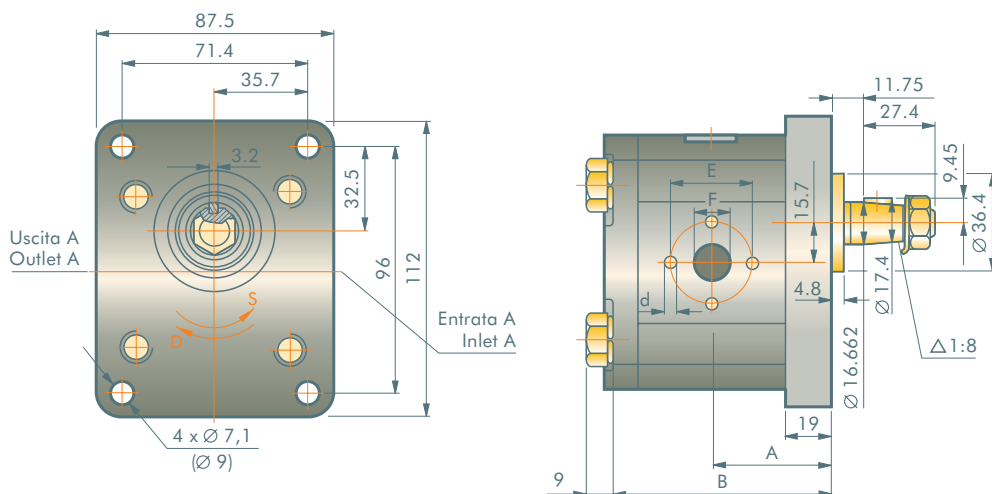
DIMENSIONE DIMENSION

| TIPO<br>TYPE | CILINDRATA<br>DISPLACEMENT<br>cm³ | A<br>mm | B<br>mm | ENTRATA INLET |   |   |   |        | USCITA OUTLET |   |   |   |   |
|--------------|-----------------------------------|---------|---------|---------------|---|---|---|--------|---------------|---|---|---|---|
|              |                                   |         |         | E             | d | F | M | G      | E             | d | F | M | G |
| PS-1/1S      | 1                                 | 71      | 81      | -             | - | - | - | 3/8" G | -             | - | - | - | - |
| PS-1/1.25S   | 1.25                              | 72      | 82      | -             | - | - | - | 3/8" G | -             | - | - | - | - |
| PS-1/1.6S    | 1.6                               | 73.6    | 83.6    | -             | - | - | - | 3/8" G | -             | - | - | - | - |
| PS-1/2S      | 2                                 | 75.2    | 85.2    | -             | - | - | - | 3/8" G | -             | - | - | - | - |
| PS-1/2.5S    | 2.5                               | 77.2    | 87.2    | -             | - | - | - | 3/8" G | -             | - | - | - | - |
| PS-1/3.15S   | 3.15                              | 79.8    | 89.8    | -             | - | - | - | 3/8" G | -             | - | - | - | - |
| PS-1/3.65S   | 3.65                              | 81.9    | 91.9    | -             | - | - | - | 3/8" G | -             | - | - | - | - |
| PS-1/4.2S    | 4.2                               | 84.1    | 94.1    | -             | - | - | - | 3/8" G | -             | - | - | - | - |
| PS-1/5S      | 5                                 | 87.1    | 97.1    | -             | - | - | - | 3/8" G | -             | - | - | - | - |
| PS-1/6S      | 6.1                               | 91.7    | 101.7   | -             | - | - | - | 3/8" G | -             | - | - | - | - |

# POMPA ALBERO CONICO

BASE Ø 36.5

## PUMP TAPERED SHAFT BASE Ø 36.5



### CILINDRATA DISPLACEMENT cm<sup>3</sup>

|                                        |                       | 4.5  | 6.3  | 8.2  | 11   | 14   | 16   | 19   | 22   | 25   |
|----------------------------------------|-----------------------|------|------|------|------|------|------|------|------|------|
| Pressione nominale<br>Nominal pressure | bar                   | 250  | 250  | 250  | 250  | 250  | 230  | 200  | 200  | 160  |
| Giri minimi<br>Minimal speed           | giri/minuto<br>r.p.m. | 650  | 650  | 650  | 650  | 650  | 650  | 650  | 650  | 650  |
| Giri massimi<br>Maximal speed          | giri/minuto<br>r.p.m. | 3500 | 3500 | 3500 | 3500 | 3500 | 2500 | 2500 | 2000 | 2000 |

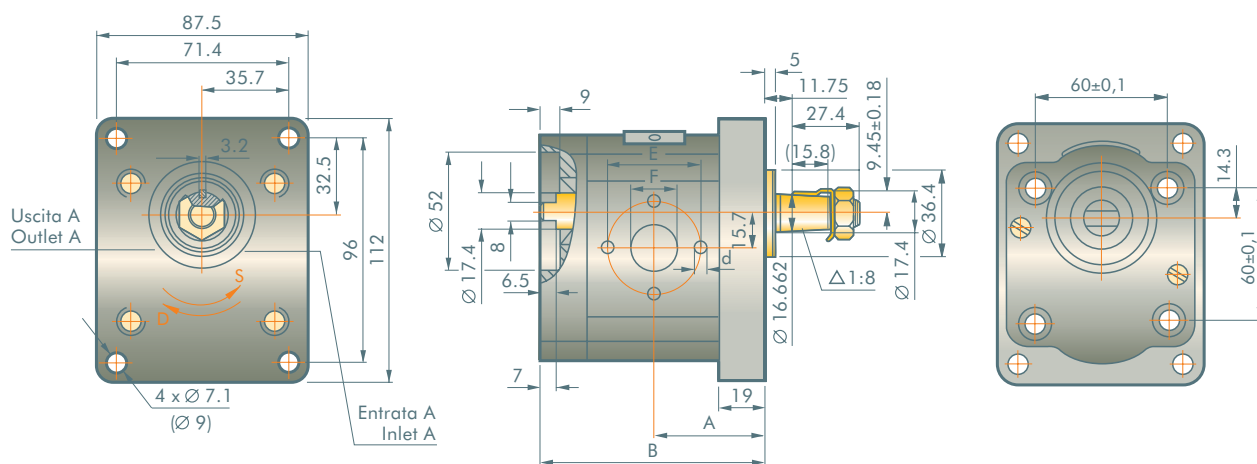
### DIMENSIONE DIMENSION

| TIPO<br>TYPE    | CILINDRATA<br>DISPLACEMENT<br>cm <sup>3</sup> | A<br>mm | B<br>mm | ENTRATA INLET |    |         |   |   | USCITA OUTLET |    |         |   |   |
|-----------------|-----------------------------------------------|---------|---------|---------------|----|---------|---|---|---------------|----|---------|---|---|
|                 |                                               |         |         | E             | d  | F<br>mm | M | G | E             | d  | F<br>mm | M | G |
| PS(D)-2/4.5 E18 | 4.5                                           | 42.5    | 80      | 30            | M6 | 13      | - | - | 30            | M6 | 13      | - | - |
| PS(D)-2/6.3 E18 | 6.3                                           | 42.5    | 80      | 30            | M6 | 13      | - | - | 30            | M6 | 13      | - | - |
| PS(D)-2/8.2 E18 | 8.2                                           | 42.5    | 80      | 30            | M6 | 13      | - | - | 30            | M6 | 13      | - | - |
| PS(D)-2/11 E18  | 11.3                                          | 48      | 91.1    | 40            | M8 | 19      | - | - | 30            | M6 | 14      | - | - |
| PS(D)-2/14 E18  | 14                                            | 50.2    | 95.4    | 40            | M8 | 19      | - | - | 30            | M6 | 14      | - | - |
| PS(D)-2/16 E18  | 16                                            | 51.8    | 98.6    | 40            | M8 | 19      | - | - | 30            | M6 | 14      | - | - |
| PS(D)-2/19 E18  | 19                                            | 54      | 103.5   | 40            | M8 | 19      | - | - | 30            | M6 | 14      | - | - |
| PS(D)-2/22 E18  | 22                                            | 56.5    | 108.5   | 40            | M8 | 19      | - | - | 30            | M6 | 14      | - | - |
| PS(D)-2/25 E18  | 25                                            | 59.2    | 113.4   | 40            | M8 | 19      | - | - | 40            | M8 | 16      | - | - |

# POMPA PRIMARIA

ALBERO CONICO BASE Ø 36.5

## PRIMARY PUMP TAPERED SHAFT BASE Ø 36.5



### CILINDRATA DISPLACEMENT cm³

|                                        |                       | 4.5  | 6.3  | 8.2  | 11   | 14   | 16   | 19   | 22   | 25   |
|----------------------------------------|-----------------------|------|------|------|------|------|------|------|------|------|
| Pressione nominale<br>Nominal pressure | bar                   | 250  | 250  | 250  | 250  | 250  | 230  | 200  | 200  | 160  |
| Giri minimi<br>Minimal speed           | giri/minuto<br>r.p.m. | 650  | 650  | 650  | 650  | 650  | 650  | 650  | 650  | 650  |
| Giri massimi<br>Maximal speed          | giri/minuto<br>r.p.m. | 3500 | 3500 | 3500 | 3500 | 3500 | 2500 | 2500 | 2000 | 2000 |

### DIMENSIONE DIMENSION

| TIPO<br>TYPE     | CILINDRATA<br>DISPLACEMENT<br>cm³ | A<br>mm | B<br>mm | ENTRATA INLET |    |    |   |   | USCITA OUTLET |    |    |   |   |
|------------------|-----------------------------------|---------|---------|---------------|----|----|---|---|---------------|----|----|---|---|
|                  |                                   |         |         | E             | d  | F  | M | G | E             | d  | F  | M | G |
| PS(D)-2/4.5 E18P | 4.5                               | 42.5    | 87.2    | 30            | M6 | 13 | - | - | 30            | M6 | 13 | - | - |
| PS(D)-2/6.3 E18P | 6.3                               | 44      | 90.2    | 30            | M6 | 13 | - | - | 30            | M6 | 13 | - | - |
| PS(D)-2/8.2 E18P | 8.2                               | 45.5    | 93.1    | 30            | M8 | 13 | - | - | 30            | M6 | 13 | - | - |
| PS(D)-2/11 E18P  | 11.3                              | 48      | 98.2    | 40            | M8 | 19 | - | - | 30            | M6 | 14 | - | - |
| PS(D)-2/14 E18P  | 14                                | 50      | 102.6   | 40            | M8 | 19 | - | - | 30            | M6 | 14 | - | - |
| PS(D)-2/16 E18P  | 16                                | 52      | 105.8   | 40            | M8 | 19 | - | - | 30            | M6 | 14 | - | - |
| PS(D)-2/19 E18P  | 19                                | 54      | 110.7   | 40            | M8 | 19 | - | - | 30            | M6 | 14 | - | - |
| PS(D)-2/22 E18P  | 22                                | 57      | 115.7   | 40            | M8 | 19 | - | - | 30            | M6 | 14 | - | - |
| PS(D)-2/25 E18P  | 25                                | 59.2    | 120.6   | 40            | M8 | 19 | - | - | 40            | M8 | 19 | - | - |

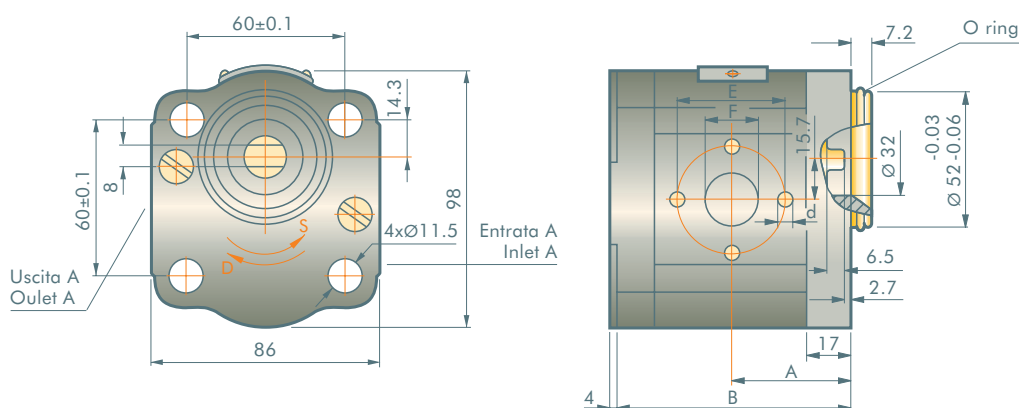
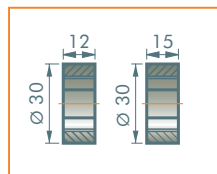


# POMPA CODOLO FRESATO

BASE Ø 52

## PUMP MILLED SHANK BASE Ø 52

Solo su ordine del cliente  
Under client's order



### CILINDRATA DISPLACEMENT cm<sup>3</sup>

|                                        |                       | 4.5  | 6.3  | 8.2  | 11   | 14   | 16   | 19   | 22   | 25   |
|----------------------------------------|-----------------------|------|------|------|------|------|------|------|------|------|
| Pressione nominale<br>Nominal pressure | bar                   | 250  | 250  | 250  | 250  | 250  | 230  | 200  | 200  | 160  |
| Giri minimi<br>Minimal speed           | giri/minuto<br>r.p.m. | 650  | 650  | 650  | 650  | 650  | 650  | 650  | 650  | 650  |
| Giri massimi<br>Maximal speed          | giri/minuto<br>r.p.m. | 3500 | 3500 | 3500 | 3500 | 3500 | 2500 | 2500 | 2000 | 2000 |

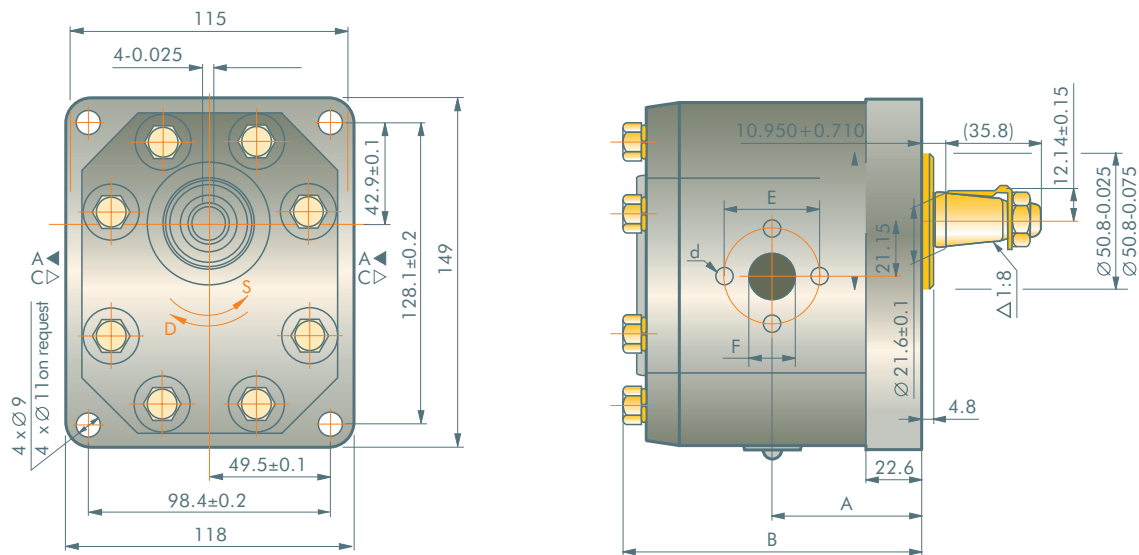
### DIMENSIONE DIMENSION

| TIPO<br>TYPE    | CILINDRATA<br>DISPLACEMENT<br>cm <sup>3</sup> | A<br>mm | B<br>mm | ENTRATA INLET |    |         |   |   | USCITA OUTLET |    |         |   |   |
|-----------------|-----------------------------------------------|---------|---------|---------------|----|---------|---|---|---------------|----|---------|---|---|
|                 |                                               |         |         | E             | d  | F<br>mm | M | G | E             | d  | F<br>mm | M | G |
| PS(D)-2/4.5 EP0 | 4.5                                           | 40.5    | 78      | 30            | M6 | 13      | - | - | 30            | M6 | 13      | - | - |
| PS(D)-2/6.3 EP0 | 6.3                                           | 42      | 81      | 30            | M6 | 13      | - | - | 30            | M6 | 13      | - | - |
| PS(D)-2/8.2 EP0 | 8.2                                           | 43.5    | 83.9    | 30            | M8 | 13      | - | - | 30            | M6 | 13      | - | - |
| PS(D)-2/11 EP0  | 11.3                                          | 46      | 89.1    | 40            | M8 | 19      | - | - | 30            | M6 | 14      | - | - |
| PS(D)-2/14 EP0  | 14                                            | 48      | 93.4    | 40            | M8 | 19      | - | - | 30            | M6 | 14      | - | - |
| PS(D)-2/16 EP0  | 16                                            | 50      | 96.6    | 40            | M8 | 19      | - | - | 30            | M6 | 14      | - | - |
| PS(D)-2/19 EP0  | 19                                            | 52      | 101.5   | 40            | M8 | 19      | - | - | 30            | M6 | 14      | - | - |
| PS(D)-2/22 EP0  | 22                                            | 55      | 106.5   | 40            | M8 | 19      | - | - | 30            | M6 | 14      | - | - |
| PS(D)-2/25 EP0  | 25                                            | 57.2    | 112.1   | 40            | M8 | 19      | - | - | 40            | M8 | 19      | - | - |

POMPA ALBERO CONICO

BASE Ø 50.8

PUMP TAPERED SHAFT BASE Ø 50.8



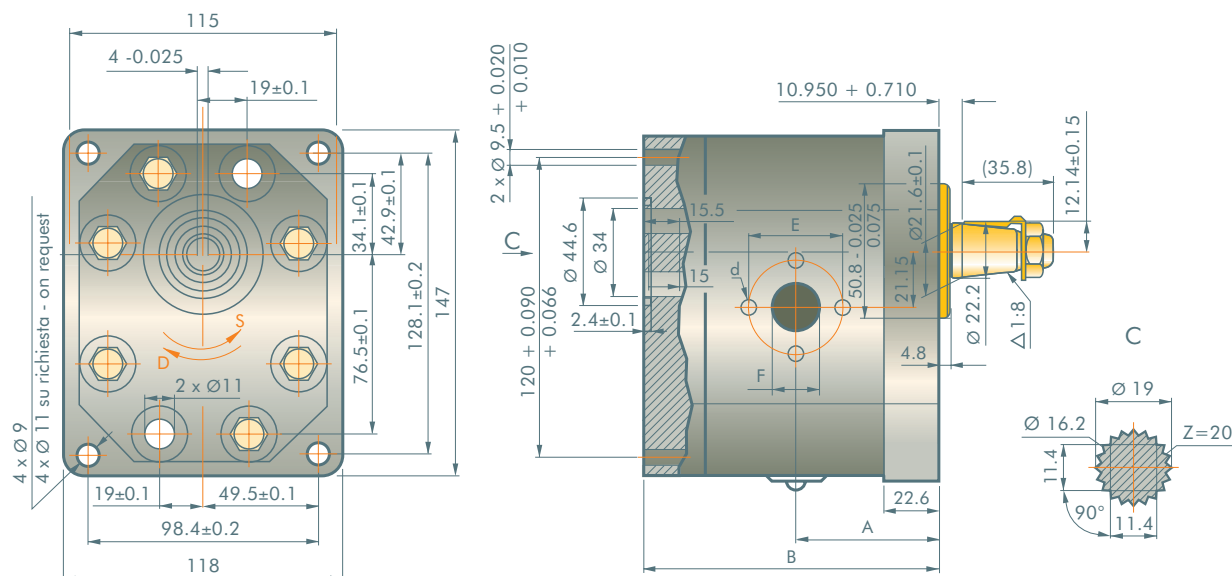
CILINDRATA DISPLACEMENT cm³

|                                        |                       | 22.5 | 25   | 32   | 36   | 46   | 55   |
|----------------------------------------|-----------------------|------|------|------|------|------|------|
| Pressione nominale<br>Nominal pressure | bar                   | 250  | 250  | 250  | 250  | 230  | 200  |
| Giri minimi<br>Minimal speed           | giri/minuto<br>r.p.m. | 650  | 650  | 650  | 650  | 650  | 650  |
| Giri massimi<br>Maximal speed          | giri/minuto<br>r.p.m. | 2500 | 2500 | 2500 | 2300 | 2100 | 2750 |

DIMENSIONE DIMENSION

| TIPO<br>TYPE      | CILINDRATA<br>DISPLACEMENT<br>cm³ | A<br>mm | B<br>mm | ENTRATA INLET |     |         |   |   | USCITA OUTLET |    |         |   |   |
|-------------------|-----------------------------------|---------|---------|---------------|-----|---------|---|---|---------------|----|---------|---|---|
|                   |                                   |         |         | E             | d   | F<br>mm | M | G | E             | d  | F<br>mm | M | G |
| PS(D)-3/22.5 E18H | 22.5                              | 57.6    | 119.9   | 40            | M8  | 19      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/25 E18H   | 25                                | 58.3    | 121.1   | 40            | M8  | 19      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/32 E18    | 32                                | 62      | 128.3   | 51            | M10 | 27      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/32 E18H   | 32                                | 66.5    | 137.3   | 51            | M10 | 27      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/36 E18    | 36                                | 63.5    | 131.4   | 51            | M10 | 27      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/36 E18H   | 36                                | 68      | 140.5   | 51            | M10 | 27      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/46 E18H   | 46                                | 72.7    | 149.8   | 51            | M10 | 27      | - | - | 4             | M8 | 19      | - | - |
| PS(D)-3/55 E18H   | 55                                | 76.7    | 157.9   | 51            | M10 | 27      | - | - | 40            | M8 | 19      | - | - |

## PRIMARY PUMP TAPERED SHAFT BASE Ø 50.8



### CILINDRATA DISPLACEMENT cm<sup>3</sup>

|                                        |                       | 22.5 | 25   | 36   | 46   | 55   | 60   |
|----------------------------------------|-----------------------|------|------|------|------|------|------|
| Pressione nominale<br>Nominal pressure | bar                   | 250  | 250  | 250  | 230  | 200  | 200  |
| Giri minimi<br>Minimal speed           | giri/minuto<br>r.p.m. | 650  | 650  | 650  | 650  | 650  | 650  |
| Giri massimi<br>Maximal speed          | giri/minuto<br>r.p.m. | 2500 | 2500 | 2300 | 2100 | 2750 | 2750 |

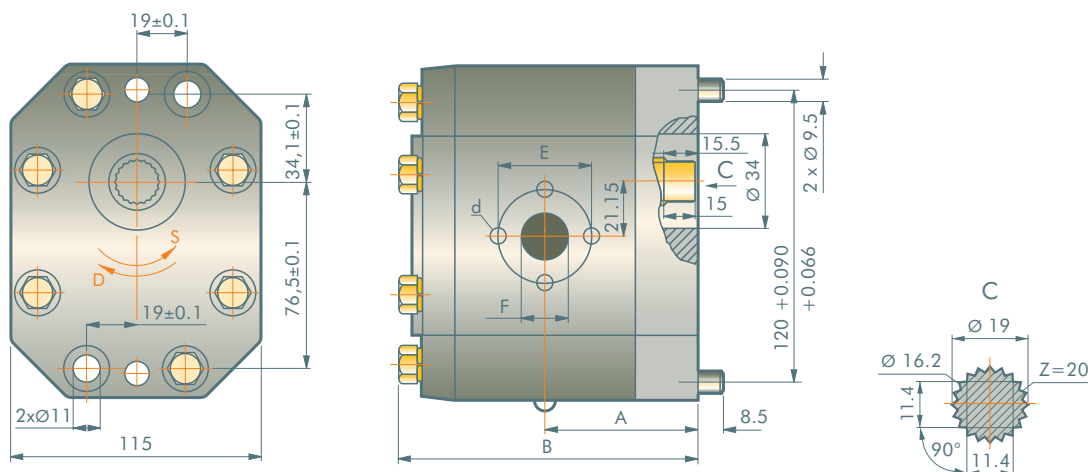
### DIMENSIONE DIMENSION

| TIPO<br>TYPE       | CILINDRATA<br>DISPLACEMENT<br>cm <sup>3</sup> | A<br>mm | B<br>mm | ENTRATA INLET |     |         |   |   | USCITA OUTLET |    |         |   |   |
|--------------------|-----------------------------------------------|---------|---------|---------------|-----|---------|---|---|---------------|----|---------|---|---|
|                    |                                               |         |         | E             | d   | F<br>mm | M | G | E             | d  | F<br>mm | M | G |
| PS(D)-3/22.5 E18PH | 22.5                                          | 57.6    | 117.5   | 40            | M8  | 19      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/25 E18PH   | 25                                            | 58.3    | 118.9   | 40            | M8  | 19      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/36 E18P    | 36                                            | 63.5    | 129.2   | 51            | M8  | 27      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/36 E18P    | 36                                            | 68      | 138.3   | 51            | M10 | 27      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/46 E18PH   | 46                                            | 72.7    | 147.6   | 51            | M10 | 27      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/55 E18PH   | 55                                            | 76.7    | 155.7   | 51            | M10 | 27      | - | - | 40            | M8 | 19      | - | - |
| PS(D)-3/60 E18PH   | 60                                            | 78.7    | 160.2   | 51            | M10 | 27      | - | - | 40            | M8 | 19      | - | - |

# POMPA SECONDARIA

ALBERO Ø 19 Z20

## SECONDARY PUMP SHAFT Ø 19 Z20



### CILINDRATA DISPLACEMENT cm<sup>3</sup>

|                                        |                       | 22.5 | 25   | 36   | 46   | 55   | 60   |
|----------------------------------------|-----------------------|------|------|------|------|------|------|
| Pressione nominale<br>Nominal pressure | bar                   | 250  | 250  | 250  | 230  | 200  | 200  |
| Giri minimi<br>Minimal speed           | giri/minuto<br>r.p.m. | 650  | 650  | 650  | 650  | 650  | 650  |
| Giri massimi<br>Maximal speed          | giri/minuto<br>r.p.m. | 2500 | 2500 | 2300 | 2100 | 2750 | 2750 |

### DIMENSIONE DIMENSION

| TIPO<br>TYPE       | CILINDRATA<br>DISPLACEMENT<br>cm <sup>3</sup> | A<br>mm | B<br>mm | ENTRATA INLET |     |    |   |   | USCITA OUTLET |    |    |   |   |
|--------------------|-----------------------------------------------|---------|---------|---------------|-----|----|---|---|---------------|----|----|---|---|
|                    |                                               |         |         | E             | d   | F  | M | G | E             | d  | F  | M | G |
| PS(D)-3/22.5 E18SH | 22.5                                          | 59.7    | 121.9   | 40            | M8  | 19 | - | - | 40            | M8 | 19 | - | - |
| PS(D)-3/25 E18SH   | 25                                            | 60.5    | 123.3   | 40            | M8  | 19 | - | - | 40            | M8 | 19 | - | - |
| PS(D)-3/36 E18S    | 36                                            | 65.7    | 133.6   | 51            | M10 | 27 | - | - | 40            | M8 | 19 | - | - |
| PS(D)-3/36 E18SH   | 36                                            | 70.2    | 142.7   | 51            | M10 | 27 | - | - | 40            | M8 | 19 | - | - |
| PS(D)-3/46 E18SH   | 46                                            | 74.9    | 152     | 51            | M10 | 27 | - | - | 40            | M8 | 19 | - | - |
| PS(D)-3/55 E18S    | 55                                            | 78.9    | 160.1   | 51            | M10 | 27 | - | - | 40            | M8 | 19 | - | - |
| PS(D)-3/60 E18SH   | 60                                            | 80.9    | 164.6   | 51            | M10 | 27 | - | - | 40            | M8 | 19 | - | - |