

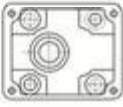
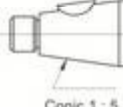
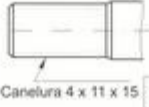
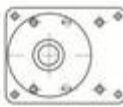
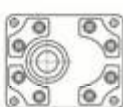
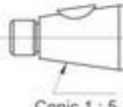
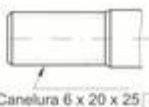
**HYDRAULIC EQUIPMENT**

*ECHIPAMENT HIDRAULIC*

# Pompe simple cu roti dintate si angrenare exterioara - codificare

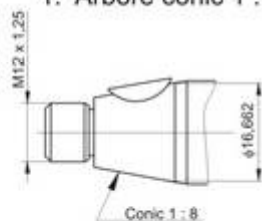
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|-------------------|--------------|----|---|---|---|---|--------|----------------|---|
| PH                | 2            | 11 | S | 1 | B | 2 | 250.24 | X <sub>8</sub> | W |
| Pompa hidraulica  |              |    |   |   |   |   |        |                |   |
| Profil corp       |              |    |   |   |   |   |        |                |   |
| 0,25              | 0,5          | 1  | 2 | 3 |   |   |        |                |   |
| Debit Q [cm3/rot] |              |    |   |   |   |   |        |                |   |
| 0,25              |              |    |   |   |   |   |        |                |   |
| 0,5               |              |    |   |   |   |   |        |                |   |
| 1                 |              |    |   |   |   |   |        |                |   |
| 2                 | 4,6 ..... 22 |    |   |   |   |   |        |                |   |
| 3                 | 20 ..... 36  |    |   |   |   |   |        |                |   |
| Sens rotatie      |              |    |   |   |   |   |        |                |   |
| D: dr             | S: stg       |    |   |   |   |   |        |                |   |
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| Identificare constructiva             |                                       |
|---------------------------------------|---------------------------------------|
| PH2                                   | PH3                                   |
| FB- ax prevazut cu pana si piulita    | L-garnitura suplimentara              |
| F- flansa si capac fonta              | W-flansa modificata                   |
| Z- varianta constructiva imbunatatita | X-cuplaj suplimentar                  |
|                                       | S-fara roata de antrenare             |
|                                       | /1-canelura fara filet int.           |
|                                       | M- Modif. orf. adm. ref.              |
|                                       | F- flansa si capac fonta              |
|                                       | Z- varianta constructiva imbunatatita |

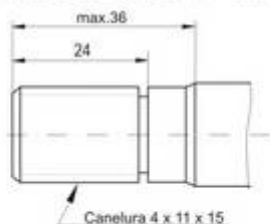
| Arbore |                                                                                                             | Flansa |                                                                                          | Orificii Admisie/refulare |    |
|--------|-------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------|---------------------------|----|
| PH2    | <br>Conic 1 : 8          | 1      | <br>A | B                         | 1  |
|        | <br>Conic 1 : 5          | 2      |                                                                                          |                           | 2  |
|        | <br>Canelura 4 x 11 x 15 | 3      | <br>C |                           | 3  |
|        |                                                                                                             |        |                                                                                          |                           | 4  |
| PH3    | <br>Conic 1 : 8          | 1      | <br>A | B                         | 5  |
|        | <br>Conic 1 : 5          | 2      |                                                                                          |                           | 6  |
|        | <br>Canelura 6 x 20 x 25 | 3      |                                                                                          |                           | 7  |
|        |                                                                                                             |        |                                                                                          |                           | 8  |
|        |                                                                                                             |        |                                                                                          |                           | 9  |
|        |                                                                                                             |        |                                                                                          |                           | 10 |
|        |                                                                                                             |        |                                                                                          |                           | 11 |
|        |                                                                                                             |        |                                                                                          |                           | 12 |
|        |                                                                                                             |        |                                                                                          |                           | 13 |
|        |                                                                                                             |        |                                                                                          |                           | 14 |
|        |                                                                                                             |        |                                                                                          |                           | 15 |
|        |                                                                                                             |        |                                                                                          |                           | 16 |

## PH 2 arbori (PH 113....)

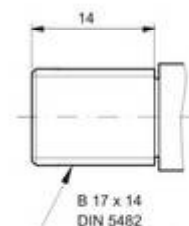
1. Arbore conic 1 : 8



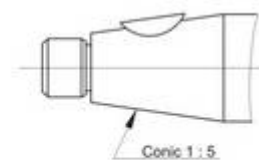
3. Arbore cu canelura 4x11x15



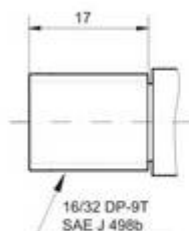
5. Arbore cu caneluri DIN



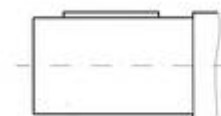
2. Arbore conic 1 : 5



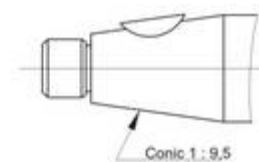
4. Arbore cu caneluri SAE



6. Arbore cilindric SAE cu pana fara filet



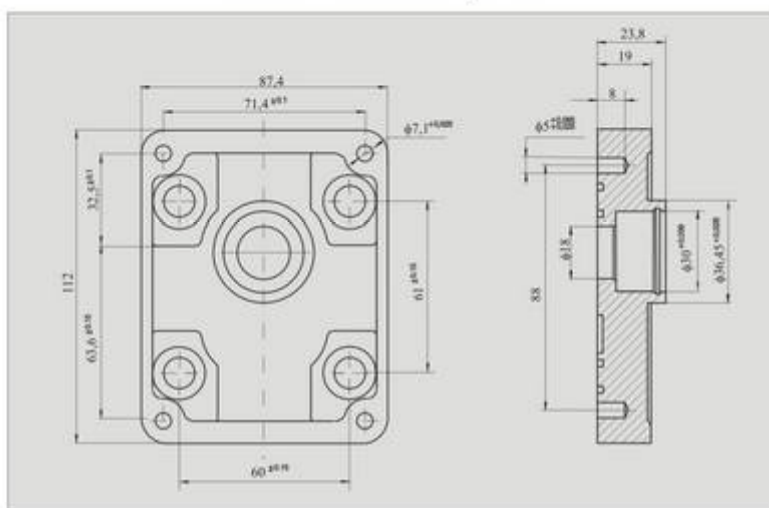
7. Arbore conic 1 : 9,5



# Pompe simple cu roti dintate si angrenare exterioara - codificare

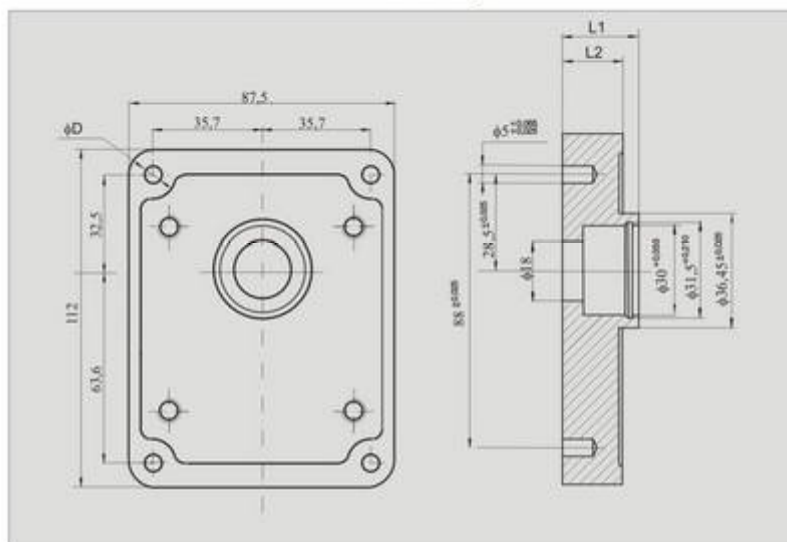
## PH 2 Tipuri de flanse

### PH 2 - flansa tip "A"



| Cod pompa | Reper flansa |
|-----------|--------------|
| PH2-001   | H13-103 T.S. |
| PH2-003   | H13-103 T.D. |
| PH2-002   | H13-103 T.S. |
| PH2-004   | H13-103 T.D. |
| PH2-024   | H13-103 T.S. |
| PH2-026   | H13-103 T.S. |
| PH2-028   | H13-103 T.S. |
| PH2-027   | H13-103 T.D. |
| PH2-029   | H13-103 T.D. |

### PH 2 - flansa tip "B"



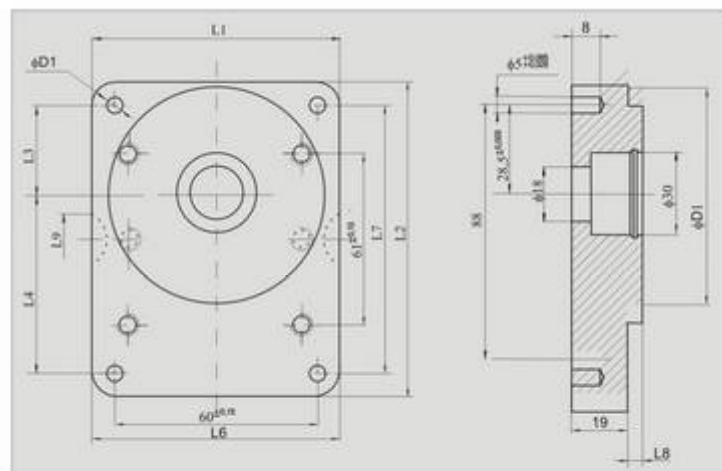
| Cod pompa       | L2 | L1   | D   | Reper flansa   |
|-----------------|----|------|-----|----------------|
| PH2-005.....014 | 19 | 23,8 | 7,1 | PH113 - 103 F  |
| PH2-032.....035 | 19 | 23,8 | 8,5 | PH113 - 103 FM |
| PH2-015.....018 | 15 | 19,5 | 8,5 | PH113 - 103 B  |
| PH2-030.....031 |    |      |     |                |
| PH2-020.....023 |    |      |     |                |



# Pompe simple cu roti dintate si angrenare exterioara - codificare

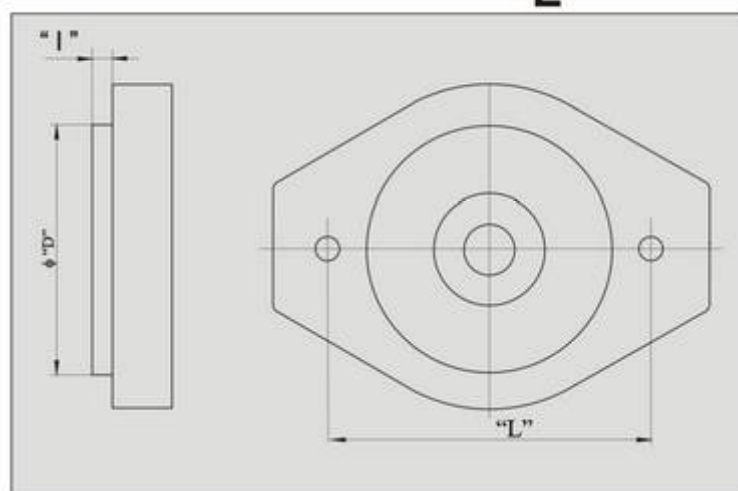
## PH 2 Tipuri de flanse

### PH 2 - flansa tip "C"



| Cod pompa | Reper flansa    | L1    | L2    | L3   | L4    | L5   | L6   | $\phi D1$ | $\phi d1$ | L7    | L8  | L9   |
|-----------|-----------------|-------|-------|------|-------|------|------|-----------|-----------|-------|-----|------|
|           | PH 113 - 103F/1 | 68    | 87,6  | 26,2 | 45,8  | 26,2 | 52,4 | 25,4      | 7,1       | -     | 4   | -    |
| PH2-019   | PH 113 - 103F/2 | 90    | 118   | 34,5 | -     | 36   | 72   | 80        | 9         | 100   | 7,2 | -    |
|           | PH 113 - 103F/3 | 88    | 112   | 32,5 | 63,85 | -    | 71,5 | 36,4      | 8,5       | -     | 4,8 | -    |
|           | PH 113 - 103F/4 | 88    | 113   | 32,5 | 63,85 | -    | 71,4 | 36,47     | 8,5       | -     | 4,8 | -    |
|           | PH113 - 103F/5  | 118,4 | 147,1 | 42,9 | -     | -    | 98,4 | 50,78     | 9         | 128,1 | 4,8 | -    |
| PH2-025   | PH 113 - 103/FC | 95    | 110   | 29   | 61    | 37,5 | 75   | 60        | 9         | -     | 6,5 | 15,5 |

### PH 2 - flansa tip "D" "E"

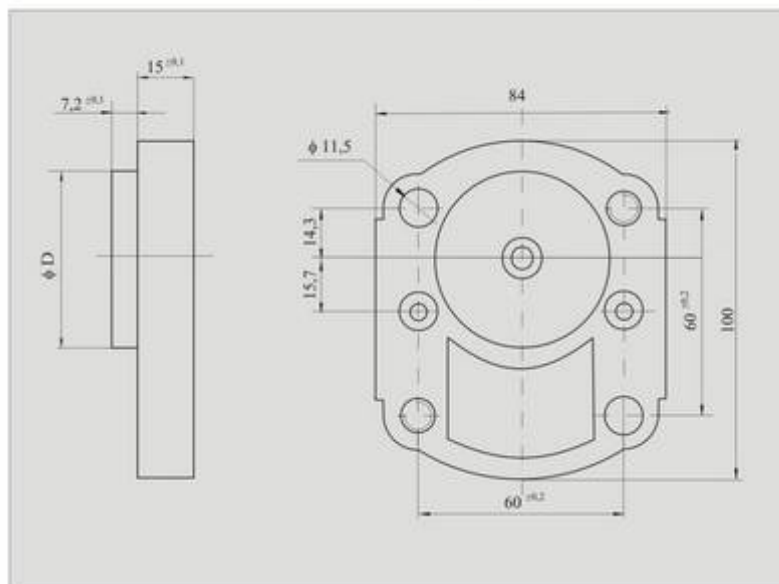


| Cod pompa | Reper flansa     | Tip | $\phi D$     | L   | I   |
|-----------|------------------|-----|--------------|-----|-----|
|           | Ph113 - 103 F/6  | D   | $\phi 82,55$ | 106 | 6   |
|           | Ph113 - 103 F/7  | D   | $\phi 52$    | 106 | 6   |
|           | Ph113 - 103 F/8  | D   | $\phi 60$    | 106 | 6   |
|           | Ph113 - 103 F/11 | E   | $\phi 101,6$ | 146 | 9,7 |

## Pompe simple cu roti dintate si angrenare exterioara - codificare

### PH 2 Tipuri de flanse

#### PH 2 - flansa tip "G"

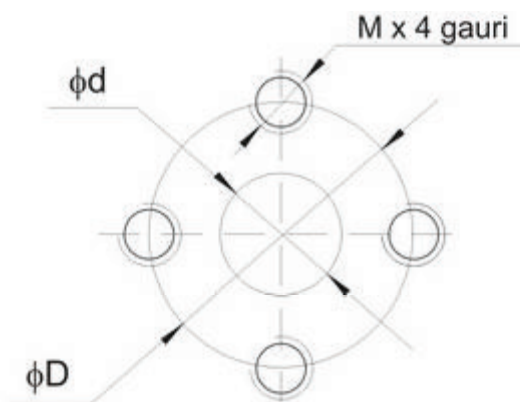


| Cod pompa | Reper flansa     | $\phi D$ |
|-----------|------------------|----------|
|           | Ph113 - 103 F/9  | 50       |
|           | Ph113 - 103 F/10 | 52       |

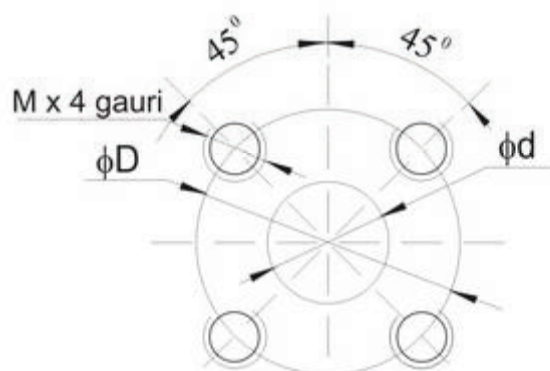
# Pompe simple cu roți dintate și angrenare exterioară - codificare

## PH 2 Orificii de admisie și refulare

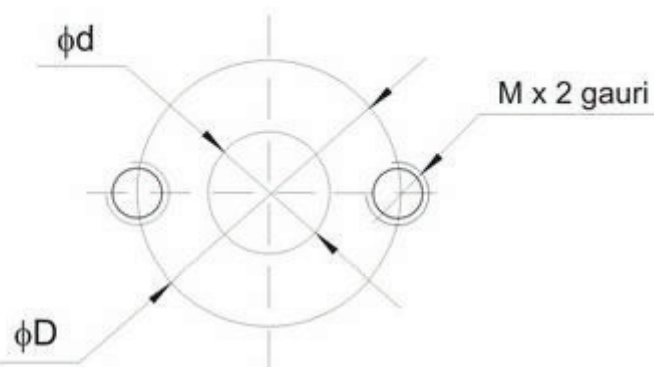
Forma A



Forma B



Forma C

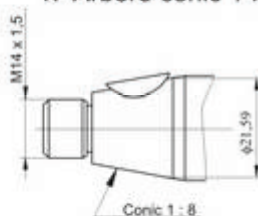


| Cod | Aspiratie |          |          |    | Aspiratie |          |          |    |
|-----|-----------|----------|----------|----|-----------|----------|----------|----|
|     | Forma     | $\phi D$ | $\phi d$ | M  | Forma     | $\phi D$ | $\phi d$ | M  |
| 1   | A         | 40       | 19       | M8 | A         | 30,2     | 14       | M6 |
| 2   | A         | 38,5     | 14       | M8 | A         | 38,5     | 14       | M8 |
| 3   | A         | 39,7     | 20       | M8 | A         | 30,2     | 15       | M6 |
| 4   | A         | 40       | 20       | M8 | A         | 30,2     | 15       | M6 |
| 5   | B         | 40       | 20       | M8 | B         | 35       | 15       | M6 |
| 6   | C         | 30,2     | 15       | M6 | C         | 30,2     | 15       | M6 |
| 7   | A         | 40       | 19       | M8 | A         | 30,2     | 15       | M6 |
| 8   | B         | 40       | 20       | M6 | B         | 35       | 15       | M6 |
| 9   | A         | 30,2     | 14       | M6 | A         | 30,2     | 14       | M6 |

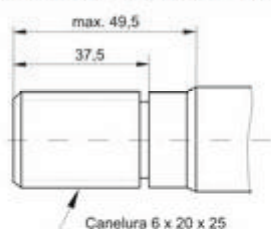
## Pompe simple cu roti dintate si angrenare exterioara - codificare

### PH 3 arbori (PH 12;PH14; PH14/4....)

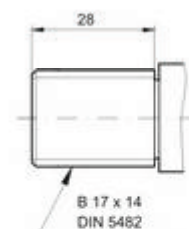
1. Arbore conic 1 : 8



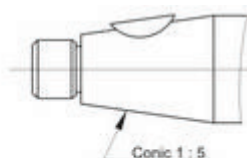
3. Arbore canelat 6 x 20 x 25



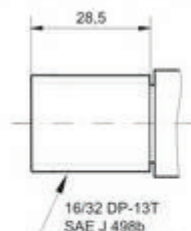
5. Arbore cu caneluri DIN



2. Arbore conic 1 : 5



4. Arbore cu caneluri SAE



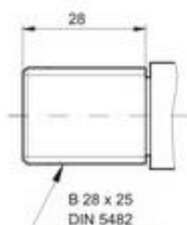
6. Arbore cilindric SAE cu pana fara filet



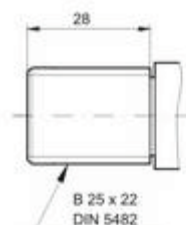
7. Arbore cilindric SAE cu pana fara filet



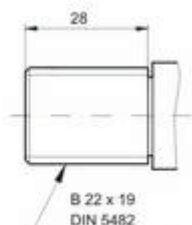
8. Arbore cu caneluri DIN



9. Arbore cu caneluri DIN



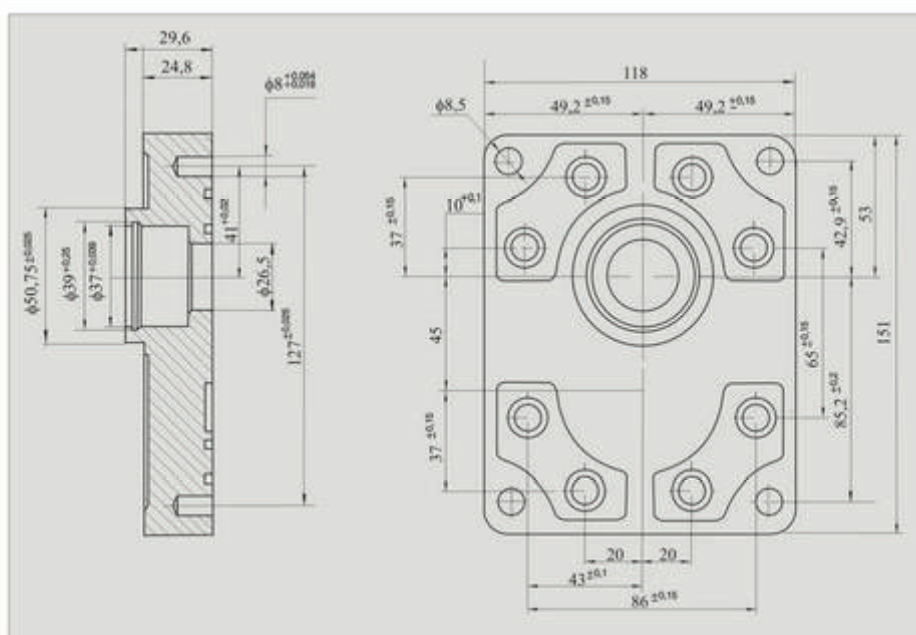
10. Arbore cu caneluri DIN



# Pompe simple cu roti dintate si angrenare exterioara - codificare

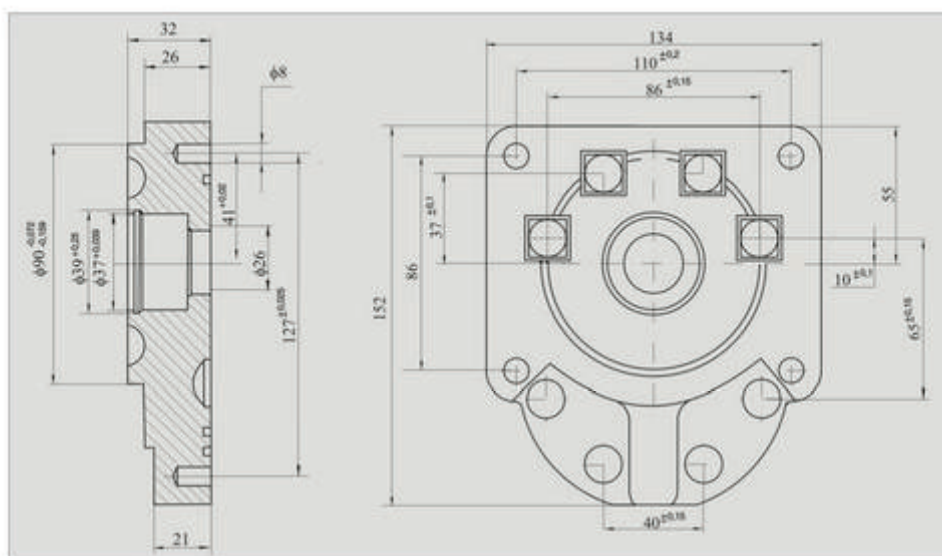
## PH 3 Tipuri de flanse

### PH 3 - flansa tip "A"



| Cod pompa    | Reper flansa |
|--------------|--------------|
| PH3-001      | H12-103T     |
| PH3-002      | H12-103T     |
| PH3-014      | H12-103T     |
| PH3-023 ÷ 24 | H12-103T     |
| PH3-003      | H12-103T.W.  |
| PH3-016      | H12-103T.W.  |
| PH3-017      | H14-103T.W.  |
| PH3-015      | H14-103T.W.  |

### PH 3 - flansa tip B

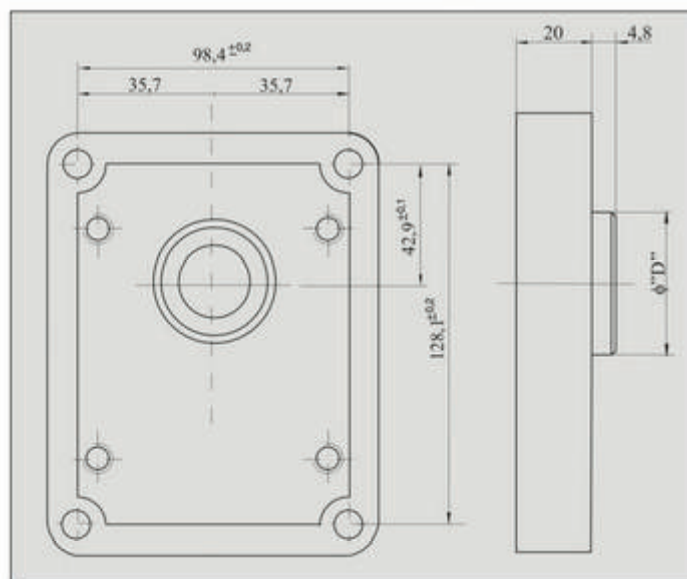


| Cod pompa     | Reper flansa  |
|---------------|---------------|
| PH3-004 ÷ 008 | H12-103S-26T  |
| PH3-019 ÷ 020 | H12-103S-26T  |
| PH3-009 ÷ 010 | H12-103D-26T  |
| PH3-018       | H12-103D-26T  |
| PH3-013; 021  | H12-103D-26TW |
| PH3-012; 022  | H12-103S-26TW |
| PH3-011       | H12-103S-26X  |

# Pompe simple cu roti dintate si angrenare exterioara - codificare

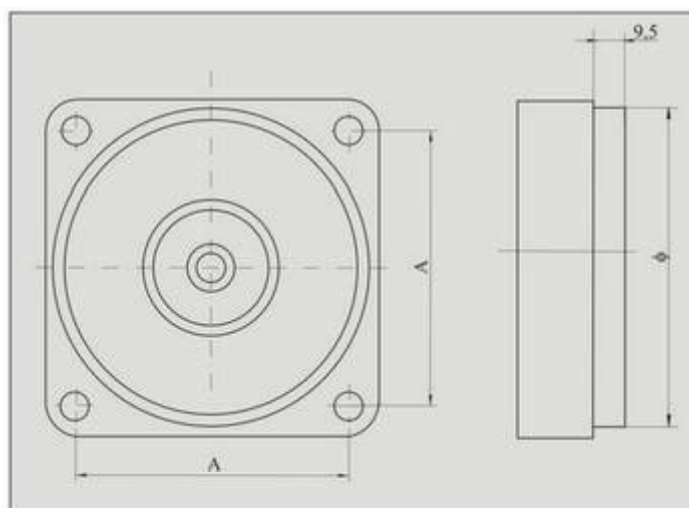
## PH 3 Tipuri de flanse

### PH 3 - flansa tip "C"



| Cod pompa    | Reper flansa | $\phi D$ |
|--------------|--------------|----------|
| PH3-025: 026 | H12-103-F    | 50,78    |
|              | H12-103/1-F  | 101,6    |

### PH 3 - flansa tip "D"



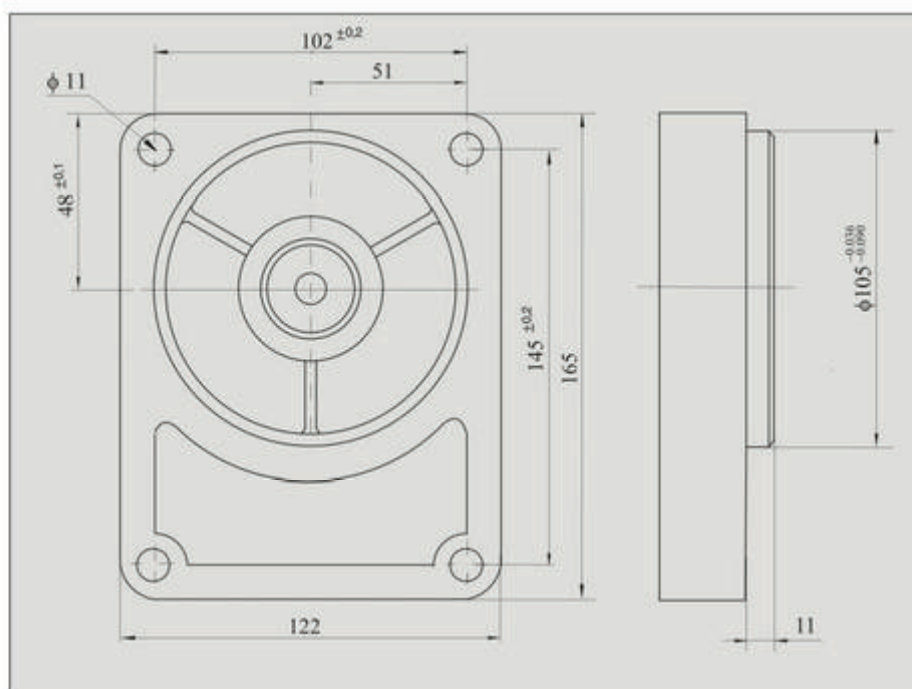
| Cota   | SAE B                | SAE B                 |
|--------|----------------------|-----------------------|
| $\phi$ | 101,6                | 127                   |
| A      | 89,8 <sup>+0,2</sup> | 114,5 <sup>+0,2</sup> |



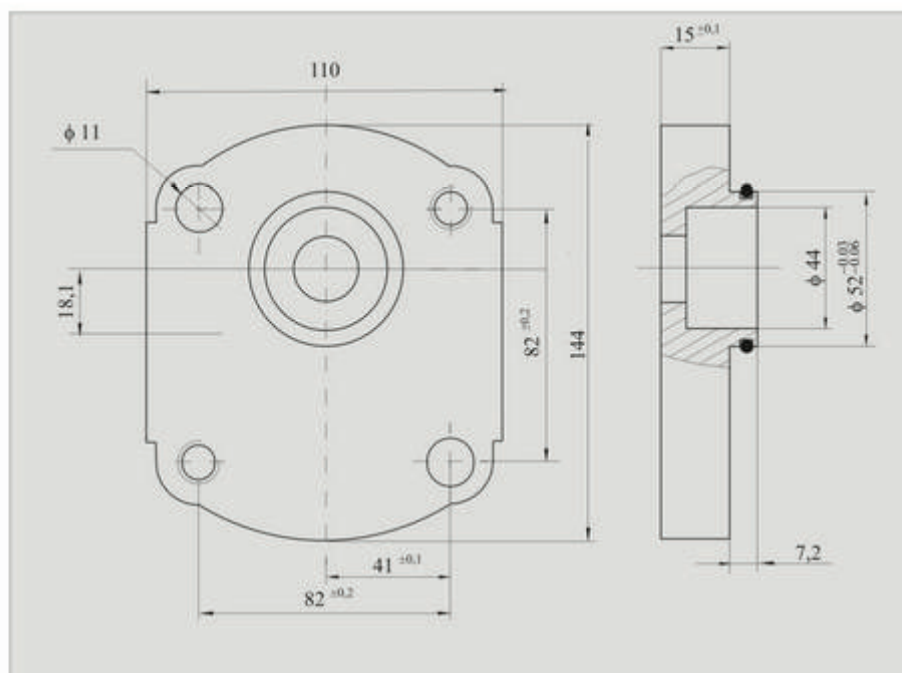
## Pompe simple cu roti dintate si angrenare exterioara - codificare

### PH 3 Tipuri de flanse

#### PH 2 - flansa tip "E"



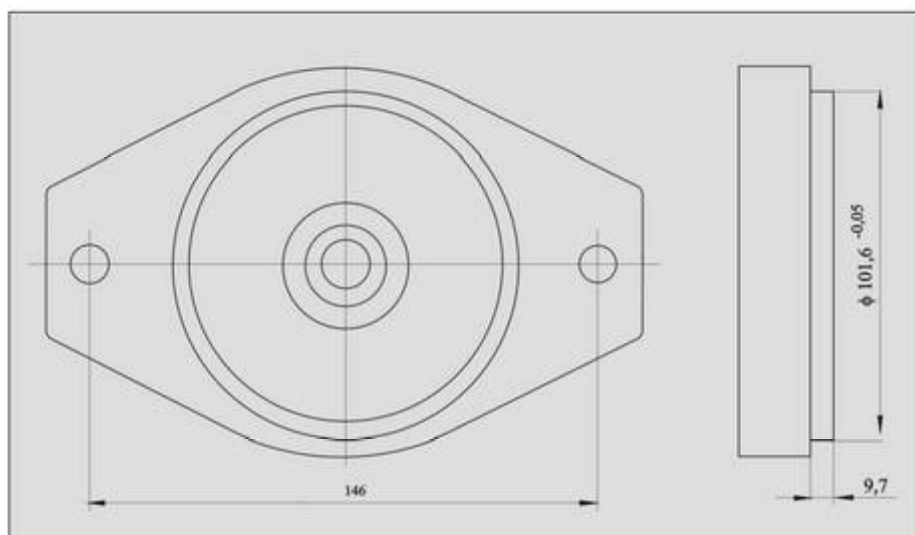
#### PH 3 - flansa tip "F"



## Pompe simple cu roti dintate si angrenare exterioara - codificare

### PH 3 Tipuri de flanse

#### PH 3 - flansa tip "H"

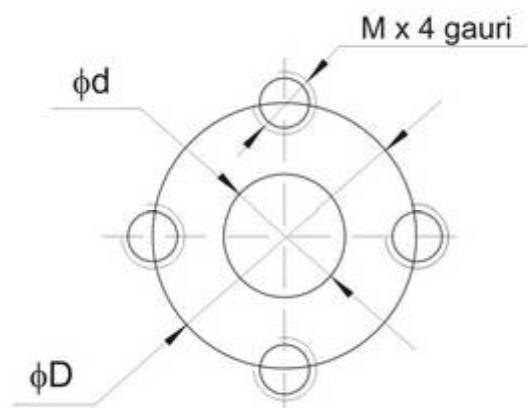




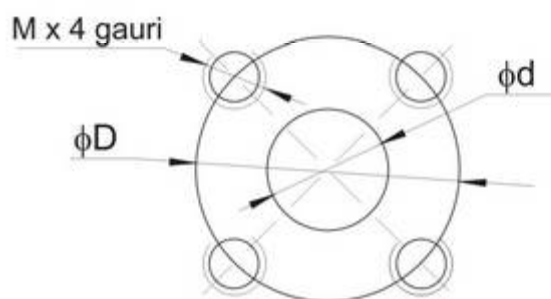
## Pompe simple cu roti dintate si angrenare exterioara - codificare

### PH 2 Orificii de admisie si refulare (PH 12; PH 14; PH14/4...)

Forma A



Forma B



| Cod | Aspiratie |          |          |     | Refulare |          |          |    |
|-----|-----------|----------|----------|-----|----------|----------|----------|----|
|     | Forma     | $\phi D$ | $\phi d$ | M   | Forma    | $\phi D$ | $\phi d$ | M  |
| 1   | A         | 39,7     | 19       | M8  | A        | 39,7     | 19       | M8 |
| 2   | B         | 65       | 22       | M8  | B        | 65       | 22       | M8 |
| 3   | B         | 50,8     | 27       | M10 | A        | 39,7     | 19       | M8 |
| 4   | B         | 65       | 28       | M8  | B        | 65       | 22       | M8 |
| 5   | A         | 40       | 19       | M8  | A        | 40       | 19       | M8 |
| 6   | A         | 50,8     | 26       | M10 | A        | 40       | 19       | M8 |

Pompe duble/triple  
cu roti dintate si angrenare exteriora - codificare

|                                                                                                                                                                                                                                 |                              |   |   |   |                                                                                                                                                                                |                           |                |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------|---|
| PH 3.2.2.                                                                                                                                                                                                                       | 30/16/4                      | S | 1 | B | 2 / 5 / 6                                                                                                                                                                      | 150. 60 / 250.35 / 180.10 | X <sub>8</sub> | W |
| <div>Pompa hidraulica<br/>Profil corp: tr.I/tr.II/tr. III<br/>0.25 0.5 1 2 3<br/>Debit Q [cm3/rot]:<br/>tr. I/tr.II/tr./III<br/>0.25<br/>0.5<br/>1 4,6 ..... 22<br/>2 20 ..... 36<br/>3<br/>Sens rotatie<br/>D; dr S; stg</div> |                              |   |   |   | <div>Caracteristici functionale: tr I/tr II/tr III<br/>Ex: 150 - pres(bar) tr I<br/>Ex: 60 - debit [l/min] tr I<br/>X: presiune reglata<br/>VEZI CODIFICARE POMPE SIMPLE</div> |                           |                |   |
|                                                                                                                                                                                                                                 |                              |   |   |   | <div>Identificare constructiva<br/>VEZI CODIFICARE POMPE SIMPLE</div>                                                                                                          |                           |                |   |
| Arbore                                                                                                                                                                                                                          | Flansa                       |   |   |   | Orificii<br>Admisie/refulare: tr.I/tr.II/tr.III                                                                                                                                |                           |                |   |
| VEZI CODIFICARE POMPE SIMPLE                                                                                                                                                                                                    | VEZI CODIFICARE POMPE SIMPLE |   |   |   | VEZI CODIFICARE POMPE SIMPLE                                                                                                                                                   |                           |                |   |

## POMPA HIDRAULICA SIMPLA PH 2

| COD COMANDA | COD VECHI     | COD NOU                | CARACTERISTICI |          |            |           | OBSERVATII      |
|-------------|---------------|------------------------|----------------|----------|------------|-----------|-----------------|
|             |               |                        | P( bar )       | Q(l/min) | N(rot/min) | Psup(bar) |                 |
| PH2 - 001   | H13 - 00S     | PH2 - 11,5S1A1 - 70.20 | 70             | 20       | 2200       | -         |                 |
| PH2 - 002   | H13 - 00D     | PH2 - 11,5D1A1 - 70.20 | 70             | 20       | 2200       | -         |                 |
| PH2 - 003   | H15 - 00S     | PH2 - 11,5S1A3 - 70.25 | 70             | 25       | 2200       | -         |                 |
| PH2 - 004   | H15 - 00D     | PH2 - 11,5D1A3- 70.25  | 70             | 25       | 2200       | -         |                 |
| PH2 - 005   | PH113 - 00S/1 | PH2 - 11S1B1 - 25.24   | 250            | 24       | 2200       | -         | Echiv.PRD2-214S |
| PH2 - 005   | PH113 - 00S/1 | PH2 - 11S1B5 - 25.24   | 250            | 24       | 2200       | -         | Echiv.PRD2-214S |
| PH2 - 005   | PH113 - 00S/1 | PH2 - 11S2B1 - 25.24   | 250            | 24       | 2200       | -         | Echiv.PRD2-214S |
| PH2 - 005   | PH113 - 00S/1 | PH2 - 11S2B5 - 25.24   | 250            | 24       | 2200       | -         | Echiv.PRD2-214S |
| PH2 - 006   | PH113 - 00D/1 | PH2 - 11D1B1- 250.24   | 250            | 24       | 2200       | -         | Echiv.PRD2-214D |
| PH2 - 006   | PH113 - 00D/1 | PH2 - 11D1B5- 250.24   | 250            | 24       | 2200       | -         | Echiv.PRD2-214D |
| PH2 - 006   | PH113 - 00D/1 | PH2 - 11D2B1 - 250.24  | 250            | 24       | 2200       | -         | Echiv.PRD2-214D |
| PH2 - 006   | PH113 - 00D/1 | PH2 - 11D2B5 - 250.24  | 250            | 24       | 2200       | -         | Echiv.PRD2-214D |
| PH2 - 007   | PH113 - 00S/2 | PH2 - 16S1B1 - 250.35  | 250            | 35       | 2200       | -         | Echiv.PRD2-216S |
| PH2 - 007   | PH113 - 00S/2 | PH2 - 16S1B5- 250.35   | 250            | 35       | 2200       | -         | Echiv.PRD2-216S |
| PH2 - 007   | PH113 - 00S/2 | PH2 - 16S2B1 - 250.35  | 250            | 35       | 2200       | -         | Echiv.PRD2-216S |
| PH2 - 007   | PH113 - 00S/2 | PH2 - 16S2B5 - 250.35  | 250            | 35       | 2200       | -         | Echiv.PRD2-216S |
| PH2 - 008   | PH113 - 00D/2 | PH2 - 16D1B1- 250.35   | 250            | 35       | 2200       | -         | Echiv.PRD2-216D |
| PH2 - 008   | PH113 - 00D/2 | PH2 - 16D1B5 - 250.35  | 250            | 35       | 2200       | -         | Echiv.PRD2-216D |
| PH2 - 008   | PH113 - 00D/2 | PH2 - 16D2B1 - 250.35  | 250            | 35       | 2200       | -         | Echiv.PRD2-216D |
| PH2 - 008   | PH113 - 00D/2 | PH2 - 16D2B5 - 250.35  | 250            | 35       | 2200       | -         | Echiv.PRD2-216D |
| PH2 - 009   | PH113 - 00S/3 | PH2 - 19S1B1 - 250.41  | 250            | 41       | 2200       | -         | Echiv.PRD2-217S |
| PH2 - 009   | PH113 - 00S/3 | PH2 - 19S1B5 - 250.41  | 250            | 41       | 2200       | -         | Echiv.PRD2-217S |
| PH2 - 009   | PH113 - 00S/3 | PH2 - 19S2B1 - 250.41  | 250            | 41       | 2200       | -         | Echiv.PRD2-217S |
| PH2 - 009   | PH113 - 00S/3 | PH2 - 19S2B5 - 250.41  | 250            | 41       | 2200       | -         | Echiv.PRD2-217S |
| PH2 - 010   | PH113 - 00D/3 | PH2 - 19D1B1 - 250.41  | 250            | 41       | 2200       | -         | Echiv.PRD2-217D |
| PH2 - 010   | PH113 - 00D/3 | PH2 - 19D1B5 - 250.41  | 250            | 41       | 2200       | -         | Echiv.PRD2-217D |
| PH2 - 010   | PH113 - 00D/3 | PH2 - 19D2B1- 250.41   | 250            | 41       | 2200       | -         | Echiv.PRD2-217D |
| PH2 - 010   | PH113 - 00D/3 | PH2 - 19D2B5- 250.41   | 250            | 41       | 2200       | -         | Echiv.PRD2-217D |
| PH2 - 011   | PH113 - 00S/4 | PH2 - 22S1B1- 250.48   | 250            | 48       | 2200       | -         | Echiv.PRD2-218S |
| PH2 - 011   | PH113 - 00S/4 | PH2 - 22S1B5- 250.48   | 250            | 48       | 2200       | -         | Echiv.PRD2-218S |
| PH2 - 011   | PH113 - 00S/4 | PH2 - 22S2B1 - 250.48  | 250            | 48       | 2200       | -         | Echiv.PRD2-218S |

## POMPA HIDRAULICA SIMPLA PH 2

| COD COMANDA | COD VECHI      | COD NOU                    | CARACTERISTICI |          |            |           | OBSERVATII            |
|-------------|----------------|----------------------------|----------------|----------|------------|-----------|-----------------------|
|             |                |                            | P( bar )       | Q(l/min) | N(rot/min) | Psup(bar) |                       |
| PH2 - 011   | PH113 - 00S/4  | PH2 - 22S2B5 - 250.48      | 250            | 48       | 2200       | -         | Echiv.PR2-218S        |
| PH2 - 012   | PH113 - 00D/4  | PH2 - 22D1B1- 250.48       | 250            | 48       | 2200       | -         | Echiv.PR2-218D        |
| PH2 - 012   | PH113 - 00D/4  | PH2 - 22D1B5- 250.48       | 250            | 48       | 2200       | -         | Echiv.PR2-218D        |
| PH2 - 012   | PH113 - 00D/4  | PH2 - 22D2B1- 250.48       | 250            | 48       | 2200       | -         | Echiv.PR2-218D        |
| PH2 - 012   | PH113 - 00D/4  | PH2 - 22D2B5- 250.48       | 250            | 48       | 2200       | -         | Echiv.PR2-218D        |
| PH2 - 013   | PH113 - 00S/5  | PH2 - 10S1B1 - 250.22      | 250            | 22       | 2200       | -         |                       |
| PH2 - 013   | PH113 - 00S/5  | PH2 - 10S1B5- 250.22       | 250            | 22       | 2200       | -         |                       |
| PH2 - 013   | PH113 - 00S/5  | PH2 - 10S2B1 - 250.22      | 250            | 22       | 2200       | -         | ( ) se comd.la cerere |
| PH2 - 013   | PH113 - 00S/5  | PH2 - 10S2B5 - 250.22      | 250            | 22       | 2200       | -         | ( ) se comd.la cerere |
| PH2 - 014   | PH113 - 00D/5  | PH2 - 10D1B1 - 250.22      | 250            | 22       | 2200       | -         | ( ) se comd.la cerere |
| PH2 - 014   | PH113 - 00D/5  | PH2 - 10D1B5 - 250.22      | 250            | 22       | 2200       | -         | ( ) se comd.la cerere |
| PH2 - 014   | PH113 - 00D/5  | PH2 - 10D2B1 - 250.22      | 250            | 22       | 2200       | -         | ( ) se comd.la cerere |
| PH2 - 014   | PH113 - 00D/5  | PH2 - 10D2B5 - 250.22      | 250            | 22       | 2200       | -         | ( ) se comd.la cerere |
| PH2 - 015   | PH113 - 00S/6  | PH2 - 11S1B3 - 250.24      | 250            | 24       | 2200       | -         | Echiv.PR2-214S        |
| PH2 - 015   | PH113 - 00S/6  | PH2 - 11S2B3 - 250.24      | 250            | 24       | 2200       | -         | Echiv.PR2-214S        |
| PH2 - 016   | PH113 - 00D/6  | PH2 - 11D1B3 - 250.24      | 250            | 24       | 2200       | -         | Echiv.PR2-214         |
| PH2 - 016   | PH113 - 00D/6  | PH2 - 11D2B3. - 250.24     | 250            | 24       | 2200       | -         | Echiv.PR2-214D        |
| PH2 - 017   | PH113 - 00S/6X | PH2 - 11S1B3 - 250.24X8    | 250            | 24       | 2200       | 220       | Echiv.PR2-224Sx       |
| PH2 - 017   | PH113 - 00S/6X | PH2 - 11S2B3 - 250.24X8    | 250            | 24       | 2200       | 220       | Echiv.PR2-224Sx       |
| PH2 - 018   | PH113 - 00D/6X | PH2 - 11D1B3 - 250.24X8    | 250            | 24       | 2200       | 220       | Echiv.PR2-224Dx       |
| PH2 - 018   | PH113 - 00D/6X | PH2 - 11D2B3 - 250.24X8    | 250            | 24       | 2200       | 220       | Echiv.PR2-224Dx       |
| PH2 - 019   | PH113 - 00S/7  | PH2 - 16S1C5 - 250.35      | 250            | 35       | 2200       | -         | Echiv.0510525319(S)   |
| PH2 - 020   | PH113 - 00S/8  | PH2 - 11S1B3 - 250.24-FB   | 250            | 24       | 2200       | -         | Echip tractorU683     |
| PH2 - 020   | PH113 - 00S/8  | PH2 - 11S2B3 - 250.24-FB   | 250            | 24       | 2200       | -         | Echip tractorU683     |
| PH2 - 021   | PH113 - 00D/8  | PH2 - 11D1B3 - 250.24-FB   | 250            | 24       | 2200       | -         | Echip tractorU683     |
| PH2 - 021   | PH113 - 00D/8  | PH2 - 11D2B3 - 250.24-FB   | 250            | 24       | 2200       | -         | Echip tractorU683     |
| PH2 - 022   | PH113 - 00S/9  | PH2 - 16S1B3 - 250.35-FB   | 250            | 35       | 2200       | -         | FB –arb.prev cu pana  |
| PH2 - 022   | PH113 - 00S/9  | PH2 - 16S2B3- 250.35-FB    | 250            | 35       | 2200       | -         | FB –arb.prev cu pana  |
| PH2 - 023   | PH113 - 00D/9  | PH2 - 16D1B3 - 250.35 - FB | 250            | 35       | 2200       | -         | FB –arb.prev cu pana  |

## POMPA HIDRAULICA SIMPLA PH 2

| COD COMANDA | COD VECHI      | COD NOU                     | CARACTERISTICI |          |            |           | OBSERVATII                                 |
|-------------|----------------|-----------------------------|----------------|----------|------------|-----------|--------------------------------------------|
|             |                |                             | P( bar )       | Q(l/min) | N(rot/min) | Psup(bar) |                                            |
| PH2 - 023   | PH113 - 00D/9  | PH2 - 16D2B3 - 250.35 - FB  | 250            | 35       | 2200       | -         | FB –arb.prev cu pana                       |
| PH2 - 024   | PH13 - 00S FB  | PH2 - 11,5S1A1 - 70.20 - FB | 70             | 20       | 2200       | -         | Echip tractorOMT150<br>FB-arb.prev.cu pana |
| PH2 - 025   | PH113 - 00SC   | PH2 - 10S3C2 - 250.22       | 250            | 22       | 2200       | -         | Echip autogreder<br>Echiv<br>H 10EGOST8753 |
| PH2 - 026   | PH04 - 00S/X   | PH2 - 4,6S1A6 - 180.10X6    | 180            | 10       | 2200       | 180       |                                            |
| PH2-027     | PH04-00D/X     | PH2-4,6D1A6 – 180.10X6      | 180            | 10       | 2200       | 180       |                                            |
| PH2 - 028   | PH11 - 00S/X   | PH2 - 11S1A7. - 180.21X6    | 180            | 21       | 2200       | 180       |                                            |
| PH2 - 029   | PH11 - 00D/X   | PH2 - 11D1A7-180.21X6       | 180            | 21       | 2200       | 180       |                                            |
| PH2 - 030   | PH113 - 00S/10 | PH2 - 11S1B9 - 250.24       | 250            | 24       | 2200       | -         |                                            |
| PH2 - 030   | PH113 - 00S/10 | PH2 - 11S2B9 - 250.24       | 250            | 24       | 2200       | -         |                                            |
| PH2 - 031   | PH113 - 00D/10 | PH2 - 11D1B9 - 250.24       | 250            | 24       | 2200       | -         |                                            |
| PH2 - 031   | PH113 - 00D/10 | PH2 - 11D2B9 - 250.24       | 250            | 24       | 2200       | -         |                                            |
| PH2 - 032   | PH113 - 00S/11 | PH2 - 16S1B9 - 250.35       | 250            | 35       | 2200       | -         |                                            |
| PH2 - 032   | PH113 - 00S/11 | PH2 - 16S2B9 - 250.35       | 250            | 35       | 2200       | -         |                                            |
| PH2 - 033   | PH113 - 00D/11 | PH2 - 16D1B9 - 250.35       | 250            | 35       | 2200       | -         |                                            |
| PH2 - 033   | PH113 - 00D/11 | PH2 - 16D2B9 - 250.35       | 250            | 35       | 2200       | -         |                                            |
| PH2 - 034   | PH113 - 00S/12 | PH2 - 16S1B1 - 250.3        | 250            | 35       | 2200       | -         | Echip. Tract. Croatia                      |
| PH2 - 034   | PH113 - 00S/12 | PH2 - 16S2B1 - 250.35       | 250            | 35       | 2200       | -         | Echip. Tract. Croatia                      |
| PH2 - 035   | PH113 - 00D/12 | PH2 - 16D1B1 - 250.35       | 250            | 35       | 2200       | -         | Echip. Tract. Croatia                      |
| PH2 - 035   | PH113 - 00D/12 | PH2 - 16D2B1 - 250.35       | 250            | 35       | 2200       | -         | Echip. Tract. Croatia                      |

## POMPE HIDRAULICE DUBLE PH 2.2

| COD COMANDA | COD VECHI      | COD NOU                                 | CARACTERISTICI |              |            |           | OBS.                                                        |
|-------------|----------------|-----------------------------------------|----------------|--------------|------------|-----------|-------------------------------------------------------------|
|             |                |                                         | P1/P2( bar )   | Q1/Q2(l/min) | N(rot/min) | Psup(bar) |                                                             |
| PH2.2 - 001 | PHS031-C1S1/X  | PH2.2 - 11/4S1B3/6 - 250.25/220.10X1    | 250/220        | 25/10        | 2200       | 63        | Echiv PRD22-2241SX, PS1140S<br>Util:comb C12M, C70,C80,C140 |
| PH2.2 - 002 | PHD031-C1S1/X  | PH2.2 - 11/4D1B3/6 – 250.25/220.10X1    | 250/220        | 25/10        | 2200       | 63        | Echiv PRD22-2241SX, PS1140S<br>Util:comb C12M, C70,C80,C140 |
| PH2.2 - 003 | PHS033-C1S1/X  | PH2.2 - 11/11S1B3/3 - 250.25/220.25X1   | 250/220        | 25/25        | 2200       | 63        |                                                             |
| PH2.2 - 004 | PHD033-C1S1/X  | PH2.2 - 11/11D1B3/3 – 250.25/220.25X1   | 250/220        | 25/25        | 2200       | 63        |                                                             |
| PH2.2 - 005 | PHS015-C1S1/00 | PH2.2 – 11.5/4.5S1A1/6- 175.25/220.10X2 | 175/220        | 25/10        | 2200       | 80        |                                                             |

## POMPE HIDRAULICE SIMPLE PH 3

| COD COMANDA | COD VECHI        | COD NOU                     | CARACTERISTICI |          |            |           | OBSERVATII                                              |
|-------------|------------------|-----------------------------|----------------|----------|------------|-----------|---------------------------------------------------------|
|             |                  |                             | P( bar )       | Q(l/min) | N(rot/min) | Psup(bar) |                                                         |
| PH3 - 001   | H12 - 00         | PH3 - 20D1A1 - 150.40       | 150            | 40       | 2200       | -         |                                                         |
| PH3 - 002   | H12 - 00S        | PH3 - 20S1A1 - 150.40       | 150            | 40       | 2200       | -         |                                                         |
| PH3 - 003   | H12 - 00W        | PH3 - 20D1A1 - 150.40 - W   | 150            | 40       | 2200       | -         | W-Flansa modif(inel sig)                                |
| PH3 - 004   | H12 - 00 - 26    | PH3 - 30S3B2 - 100.34       | 100            | 34       | 1300       | -         | Inloc.FSPR1                                             |
| PH3 - 005   | H12 - 01 - 26    | PH3 - 30S3B2 - 100.34       | 100            | 34       | 1300       | -         | Echip cu r antr.26121231                                |
| PH3 - 006   | H12 - 01 - 26S   | PH3 - 30S3B2 - 100.34 - S   | 100            | 34       | 1300       | -         | S-fara roata de antrenare                               |
| PH3 - 007   | H12 - 01 - 26S/1 | PH3 - 30S3B2 - 100.34 - S/1 | 100            | 34       | 1300       | -         | S/1 - fara r.de ant. si ax cu canelura fara gaura filet |
| PH3 - 008   | H12 - 01 - 26SL  | PH3 - 30S3B2 - 100.34 - SL  | 100            | 34       | 1300       | -         | L-garn supl-locum LDH                                   |
| PH3 - 009   | H12 - 01 - 26SM  | PH3 - 30D3B2 - 100.34 - SM  | 100            | 34       | 1300       | -         | SM-prima util-autobasc                                  |
| PH3 - 010   | H12 - 01 - 26SM1 | PH3 - 30D3B2 - 100.34 - SM1 | 100            | 34       | 1300       | -         | SM1-prima util-autobasc si ax fara gaura filet          |
| PH3 - 011   | H12 - 01 - 26X   | PH3 - 30S3B2 - 100.34 - X   | 100            | 34       | 1300       | -         | X-cuplaj suplimentar                                    |
| PH3 - 012   | H12 - 00 - 26W   | PH3 - 30S3B2 - 100.34 - W   | 100            | 34       | 1300       | -         | W-Flansa modif(inel sig)                                |
| PH3 - 013   | H12 - 01 - 26SMW | PH3 - 30D3B2 - 100.34 - SMW | 100            | 34       | 1300       | -         | SMW- fara r.de ant. si ax fara g fil,flans mod in sig   |
| PH3 - 014   | H14 - 01D        | PH3 - 30D1A3 - 150.60       | 150            | 60       | 2200       | -         |                                                         |
| PH3 - 015   | H14 - 01S        | PH3 - 30S1A3 - 150.60       | 150            | 60       | 2200       | -         |                                                         |
| PH3 - 016   | H14 - 00DW       | PH3 - 30D1A3 - 150.60 - W   | 150            | 60       | 2200       | -         | W-Flansa modif(inel sig)                                |
| PH3 - 017   | H14 - 00SW       | PH3 - 30S1A3 - 150.60 - W   | 150            | 60       | 2200       | -         | W-Flansa modif(inel sig)                                |
| PH3 - 018   | H14/4 - 00D      | PH3 - 36D3B4 - 100.60       | 100            | 60       | 1730       | -         |                                                         |
| PH3 - 019   | H14/4 - 00S      | PH3 - 36S3B4 - 100.60       | 100            | 60       | 1730       | -         | Echip cu r. de antrenare                                |
| PH3 - 020   | H14/4 - 01S      | PH3 - 36S3A4 - 100.60       | 100            | 60       | 1730       | -         |                                                         |
| PH3 - 021   | H14/4 - 00DW     | PH3 - 36D3B4 - 100.60 - W   | 100            | 60       | 1730       | -         | W-Flansa modif(inel sig)                                |
| PH3 - 022   | H14/4 - 00SW     | PH3 - 36S3B4 - 100.60 - W   | 100            | 60       | 1730       | -         | W-Flansa modif(inel sig)                                |
| PH3 - 023   | H14 - 02DM       | PH3 - 30D1A5 - 150.60 - M   | 100            | 60       | 2200       | -         | M-modif cod 6.6.                                        |
| PH3 - 024   | H14/4 - 00DZ     | PH3 - 36D1A6 - 100.60 - Z   | 100            | 60       | 1730       | -         | Z-mod. flansa; cod 6; asp si ref masa de rindeluire     |
| PH3 - 025   | H12 - 00 - F     | PH3 - 20D1C1 - 250.40 - F   | 250            | 40       | 2200       | -         | F - flansa si capac fonta                               |
| PH3 - 026   | H12 - 00S - F    | PH3 - 20S1C1 - 250.40 - F   | 250            | 40       | 2200       | -         | F - flansa si capac fonta                               |

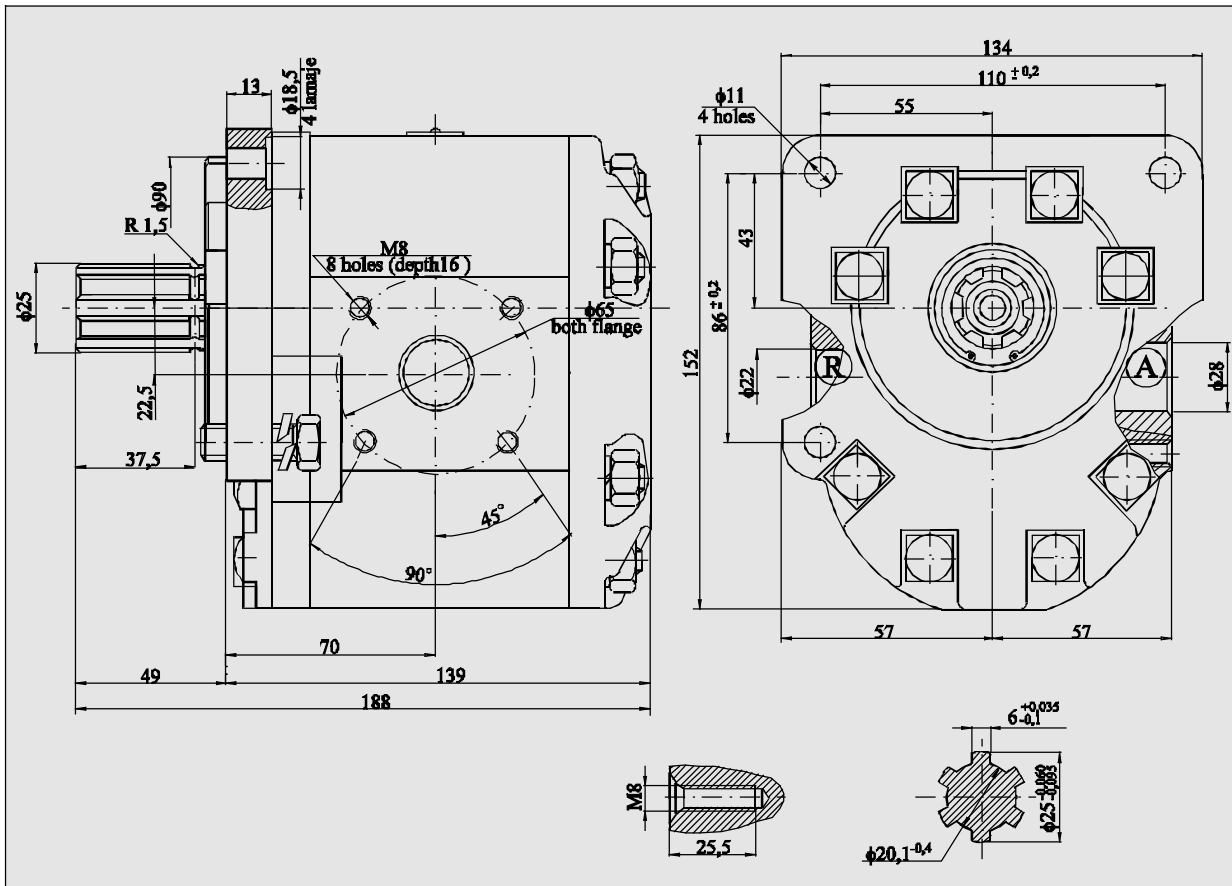
## POMPE HIDRAULICE DUBLE PH 3.3

| COD<br>COMANDA | COD VECHI   | COD NOU                          | CARACTERISTICI |              |            |           | OBS. |
|----------------|-------------|----------------------------------|----------------|--------------|------------|-----------|------|
|                |             |                                  | P1/P2( bar )   | Q1/Q2(l/min) | N(rot/min) | Psup(bar) |      |
| PH3.3-001      | PHS1412-00  | PH3.3-36/20S3B4/1 -150.60/150.40 | 150/150        | 60/40        | 2500       | -         |      |
| PH3.3-002      | PHD 1412-00 | PH3.3-36/20D3B4/1-150.60/150.40  | 150/150        | 60/40        | 2500       | -         |      |



# POMPA HIDRAULICA - HYDRAULIC POMP

## PH 14/4



## Caratteristici

- \* Numar de sectiuni 1
- \* Debit minim 60l/min
- \* Presiune de lucru 100 Kg/cm<sup>2</sup>
- \* Presiunea maxima 130 Kg/cm<sup>2</sup>
- \* Turatie nominala 1700 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Lichidul de lucru:  
ulei H 38 STAS 9691 - 80, sau  
ulei tip M 20 STAS751 - 80

- \* Temperatura de lucru normala 50<sup>0</sup>C
- \* Temperatura maxima admisa 80<sup>0</sup>C
- \* Sensul de rotatie privit dinspre  
partea antrenarii: antiorar
- \* Volum geometric 36cm<sup>3</sup>/rot
- \* Greutate 7,5 Kg

Se comanda sub reperul H 14/4 - 01 S

## Variante constructive

PH 14/4 D inlocuieste pompa FS PR ,sens de  
rotatie dreapta - se comanda sub reperul **H 14/4 - 00 D**

## Characteristics

- \* Number of sections 1
- \* Minimum output 60l/min
- \* Operating pressure 100 Kp/sq.cm
- \* Maximum pressure 130 Kp/sq.cm
- \* Rated speed 1700 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating fluid:  
    TELLUS 33, TELLUS 133,  
        HYDRAULIQUE 130, ETNA 26  
        ENERGOL HL - 100  
        ENERGOL CS - 125, TERESSO 52  
        SHELL VITREA 31/33/37 DIE  
        OIL MEDIUL
- \* Operating temperature 50°C
- \* Maximum permissible temperature 80°C
- \* Revolving sense : anti - clockwise  
    (looking from drive side)

- \* Weight 7,5 Kg

To be ordered part no H 14/4 - 01 S

### Constructive variant

It replaces the FS PR 4 pump, revolving sense: right  
to be ordered under part no **H 14/4 - 00 D**

Se comanda sub reperul H 14/4-01S-F  
H 14/4-01S-F- MA

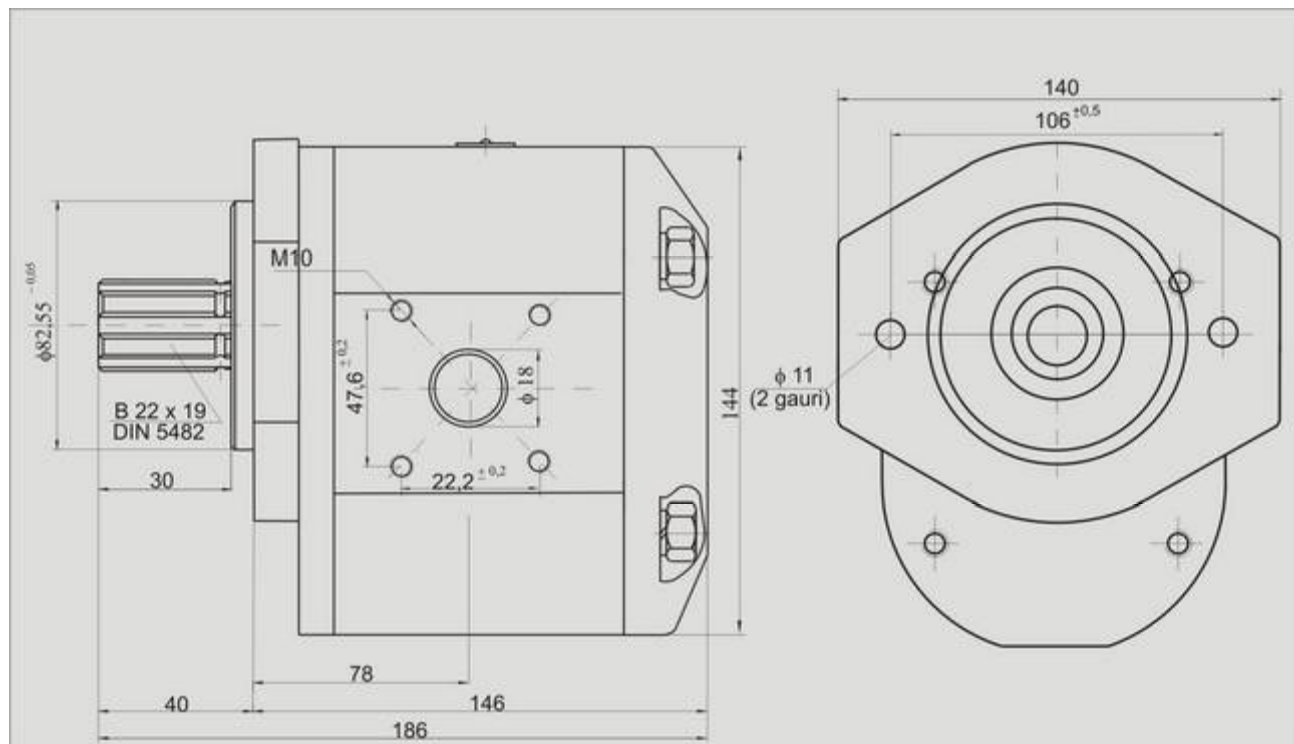
PH 14/4 D inlocuieste pompa FS PR ,sens de  
rotatie dreapta - se comanda sub reperul **H 14/4 - 00 D-F**  
**H 14/4 - 00 D-F-MA**

To be ordered part no H 14/4 - 01 S-F  
H 14/4-01S-F- MA

It replaces the FS PR 4 pump, revolving sense: right  
to be ordered under part no **H 14/4 - 00 D - F**  
**H 14/4 - 00 D-F-MA**

# POMPA HIDRAULICA - HYDRAULIC POMP

## PH 14/5 –FMA



### Caracteristici

- \* Numar de sectiuni 1
- \* Debit minim 75 l/min
- \* Volum geometric 45 cm<sup>3</sup>/rot
- \* Presiune nominala 250 Kgf/cm<sup>2</sup>
- \* Presiunea maxima 300 Kgf/cm<sup>2</sup>
- \* Turatie nominala 1700 rot./min
- \* Turatie maxima 2500 rot./min
- \* Turatie minima 800 rot./min
- \* Putere antrenare 32,5 kw
- \* Lichidul de lucru:
  - ulei H 38 STAS 9691 - 80, sau
  - ulei tip M 20 STAS751 - 80
- \* Temperatura de lucru normala 50<sup>0</sup>C
- \* Temperatura maxima admisa 80<sup>0</sup>C
- \* Sensul de rotatie privit dinspre partea antrenarii: antiorar (S); orar (D)
- \* Greutate 9 Kg

Se comanda sub reperul H 14/5-00S-FMA  
H 14/5-00D-FMA

### Characteristics

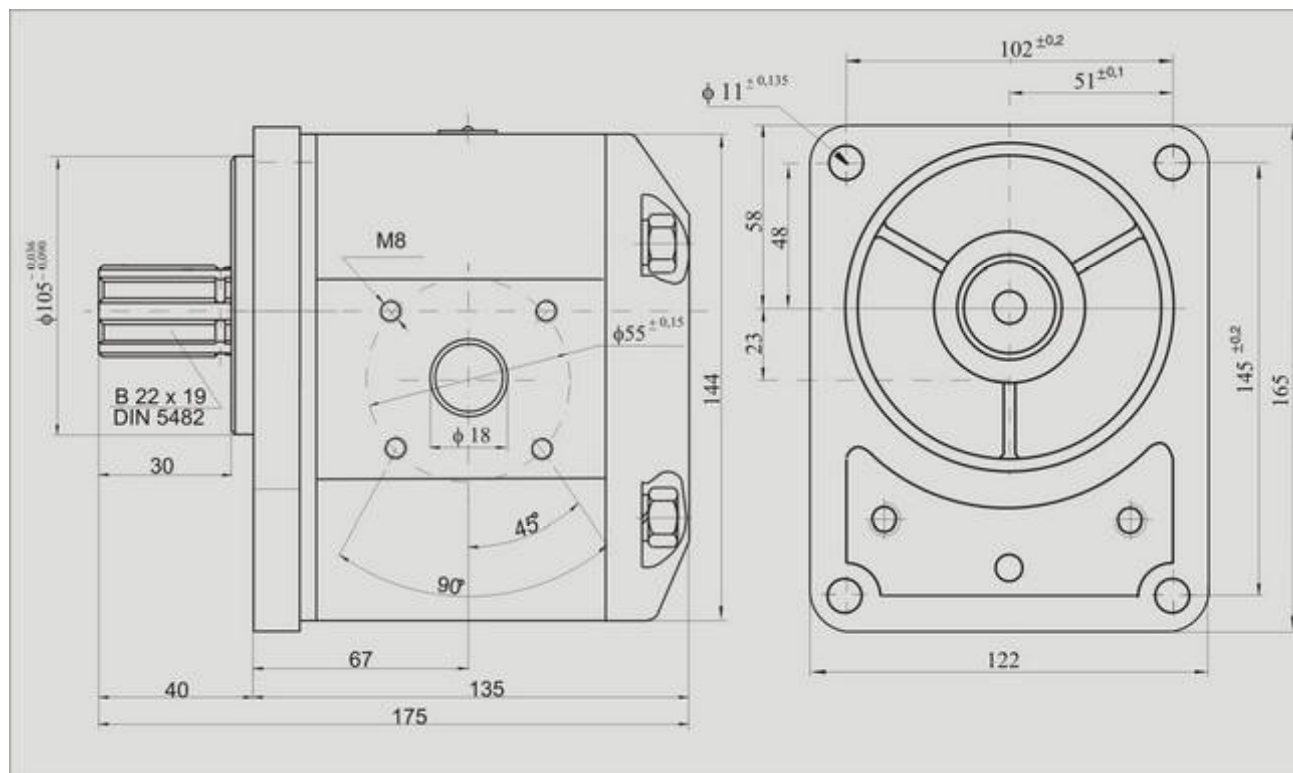
- \* Number of sections 1
- \* Minimum output 75 l/min
- \* Vg 45 cm<sup>3</sup>/rot
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Rated speed 1700 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Drive power 32,5 kw
- \* Operating fluid:
  - TELLUS 33, TELLUS 133,
  - HYDRAULIQUE 130, ETNA 26
  - ENERGOL HL - 100
  - ENERGOL CS - 125, TERESSO 52
  - SHELL VITREA 31/33/37 DIE
  - OIL MEDIUL
- \* Operating temperature 50<sup>0</sup>C
- \* Maximum permissible temperature 80<sup>0</sup>C
- \* Revolving sense : anti – clockwise (S)  
(looking from drive side) –clockwise (D)
- \* Weight 9 Kg

To be ordered part no H 14/5 – 00S- FMA  
H 14/5-00D-FMA

Utilizare: Autoincarcator KOMATSU

# POMPA HIDRAULICA - HYDRAULIC POMP

## PH 14/6 –FMA



### Caracteristici

- \* Numar de sectiuni 1
- \* Debit minim 75 l/min
- \* Volum geometric 45 cm<sup>3</sup>/rot
- \* Presiune nominala 250 Kgf/cm<sup>2</sup>
- \* Presiunea maxima 300 Kgf/cm<sup>2</sup>
- \* Turatie nominala 1700 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Putere antrenare 32,5 kw
- \* Lichidul de lucru:
  - ulei H 38 STAS 9691 - 80, sau
  - ulei tip M 20 STAS751 - 80
- \* Temperatura de lucru normala 50°C
- \* Temperatura maxima admisa 80°C
- \* Sensul de rotatie privit dinspre partea antrenarii: antiorar (S); orar (D)
- \* Greutate 9 Kg

Se comanda sub reperul H 14/6-00S-FMA  
H 14/6-00D-FMA

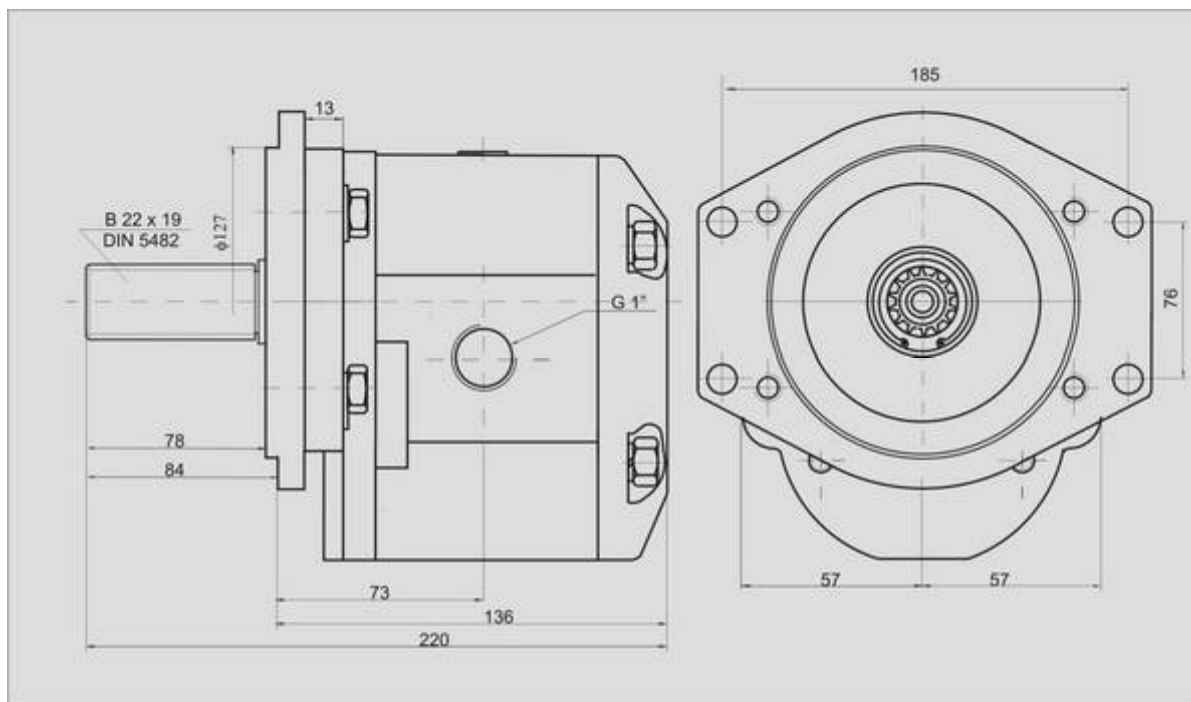
### Characteristics

- \* Number of sections 1
- \* Minimum output 85 l/min
- \* Vg 45 cm<sup>3</sup>/rot
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Rated speed 1700 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Drive power 32,5 kw
- \* Operating fluid:
  - TELLUS 33, TELLUS 133,
  - HYDRAULIQUE 130, ETNA 26
  - ENERGOL HL - 100
  - ENERGOL CS - 125, TERESSO 52
  - SHELL VITREA 31/33/37 DIE
  - OIL MEDIUL
- \* Operating temperature 50°C
- \* Maximum permissible temperature 80°C
- \* Revolving sense : anti – clockwise (S)  
(looking from drive side) –clockwise (D)
- \* Weight 9 Kg

To be ordered part no H 14/6 – 00S- FMA  
H 14/6-00D-FMA

# POMPA HIDRAULICA - HYDRAULIC POMP

## PH 14/7- FMA



### Caracteristici

- \* Numar de sectiuni 1
- \* Debit minim 60 l/min
- \* Volum geometric 36 cm<sup>3</sup>/rot
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiunea maxima 300 Kg/cm<sup>2</sup>
- \* Turatie nominala 1700 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Lichidul de lucru:  
ulei H 38 STAS 9691 - 80, sau  
ulei tip M 20 STAS751 - 80

- \* Temperatura de lucru normala 50°C
- \* Temperatura maxima admisa 80°C
- \* Sensul de rotatie privit dinspre  
partea antrenarii: antiorar
- \* Greutate 9,4 Kg

Se comanda sub reperul H 14/7-00S-FMA

### Variante constructive

PH 14/7D, sens de rotatie dreapta  
- se comanda sub reperul **H 14/7 - 00D-FMA**

### Characteristics

- \* Number of sections 1
- \* Minimum output 60 l/min
- \* Vg 36 cm<sup>3</sup>/rot
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Rated speed 1700 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating fluid:  
TELLUS 33, TELLUS 133,  
HYDRAULIQUE 130, ETNA 26  
ENERGOL HL - 100  
ENERGOL CS - 125, TERESSO 52  
SHELL VITREA 31/33/37 DIE  
OIL MEDIUL

- \* Operating temperature 50°C
- \* Maximum permissible temperature 80°C
- \* Revolving sense : anti - clockwise  
(looking from drive side)

- \* Weight 9,4 Kg

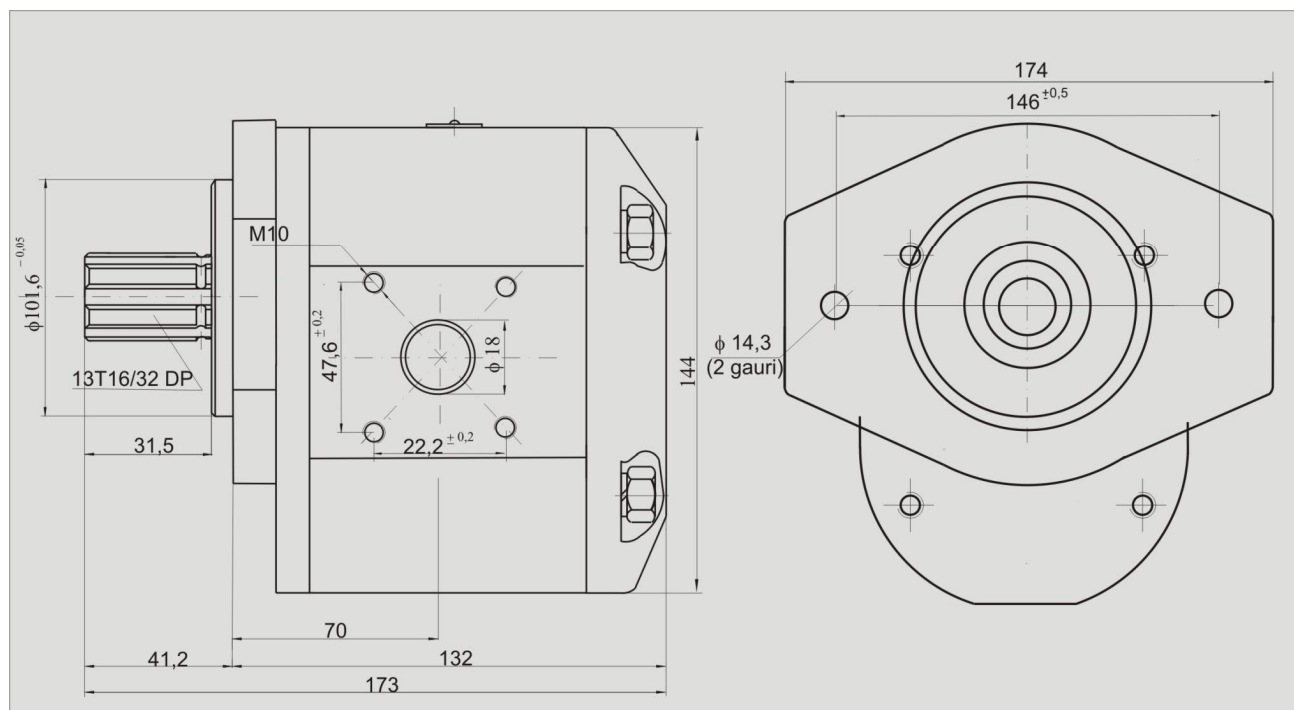
To be ordered part no H 14/7 - 00S-FMA

### Constructive variant

PH 14/7 D pump, revolving sense: right  
to be ordered under part no **H 14/7 - 00D - FMA**

# POMPA HIDRAULICA - HYDRAULIC POMP

## PH 14/8 –FMA



### Caracteristici

- \* Numar de sectiuni 1
- \* Debit minim 62 l/min
- \* Volum geometric 38 cm<sup>3</sup>/rot
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiunea maxima 300 Kg/cm<sup>2</sup>
- \* Turatie nominala 1700 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Putere antrenare 32,5 kw
- \* Lichidul de lucru:
  - ulei H 38 STAS 9691 - 80, sau
  - ulei tip M 20 STAS751 - 80
- \* Temperatura de lucru normala 50<sup>0</sup>C
- \* Temperatura maxima admisa 80<sup>0</sup>C
- \* Sensul de rotatie privit dinspre partea antrenarii: antiorar (S); orar (D)
- \* Greutate 9 Kg

Se comanda sub reperul H 14/8-00S-FMA  
H 14/8-00D-FMA

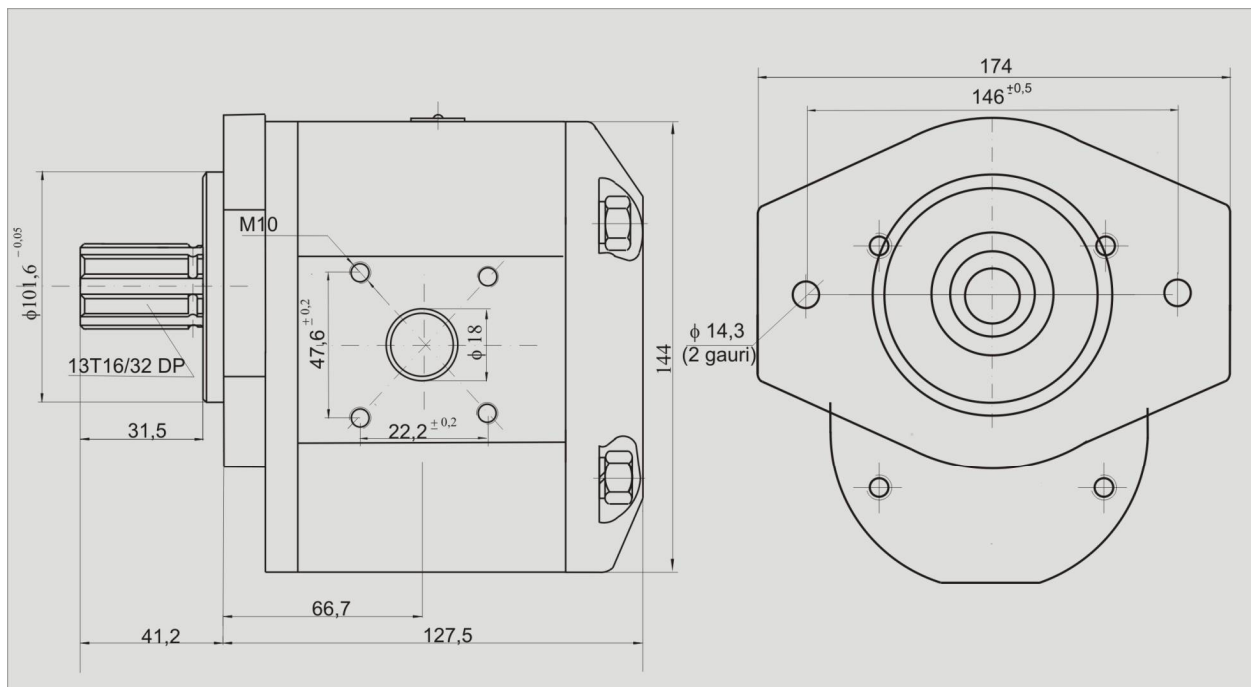
### Characteristics

- \* Number of sections 1
- \* Minimum output 62 l/min
- \* Vg 38 cm<sup>3</sup>/rot
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Rated speed 1700 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Drive power 32,5 kw
- \* Operating fluid:
  - TELLUS 33, TELLUS 133,
  - HYDRAULIQUE 130, ETNA 26
  - ENERGOL HL - 100
  - ENERGOL CS - 125, TERESSO 52
  - SHELL VITREA 31/33/37 DIE
  - OIL MEDIUL
- \* Operating temperature 50<sup>0</sup>C
- \* Maximum permissible temperature 80<sup>0</sup>C
- \* Revolving sense : anti – clockwise (S)  
(looking from drive side) –clockwise (D)
- \* Weight 9 Kg

To be ordered part no H 14/8 – 00S- FMA  
H 14/8-00D-FMA

# POMPA HIDRAULICA - HYDRAULIC POMP

## PH 14/9 –FMA



### Caracteristici

- \* Numar de sectiuni 1
- \* Debit minim 54 l/min
- \* Volum geometric 32 cm<sup>3</sup>/rot
- \* Presiune nominala 250 Kgf/cm<sup>2</sup>
- \* Presiunea maxima 300 Kgf/cm<sup>2</sup>
- \* Turatie nominala 1700 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Putere antrenare 32,5 kw
- \* Lichidul de lucru:
  - ulei H 38 STAS 9691 - 80, sau
  - ulei tip M 20 STAS751 - 80
- \* Temperatura de lucru normala 50<sup>0</sup>C
- \* Temperatura maxima admisa 80<sup>0</sup>C
- \* Sensul de rotatie privit dinspre partea antrenarii: antiorar (S); orar (D)
- \* Greutate 9 Kg

Se comanda sub reperul H 14/9-00S-FMA  
H 14/9-00D-FMA

### Characteristics

- \* Number of sections 1
- \* Minimum output 54 l/min
- \* Vg 32 cm<sup>3</sup>/rot
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Rated speed 1700 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Drive power 32,5 kw
- \* Operating fluid:
  - TELLUS 33, TELLUS 133,
  - HYDRAULIQUE 130, ETNA 26
  - ENERGOL HL - 100
  - ENERGOL CS - 125, TERESSO 52
  - SHELL VITREA 31/33/37 DIE
  - OIL MEDIUL
- \* Operating temperature 50<sup>0</sup>C
- \* Maximum permissible temperature 80<sup>0</sup>C
- \* Revolving sense : anti – clockwise (S)  
(looking from drive side) –clockwise (D)
- \* Weight 9 Kg

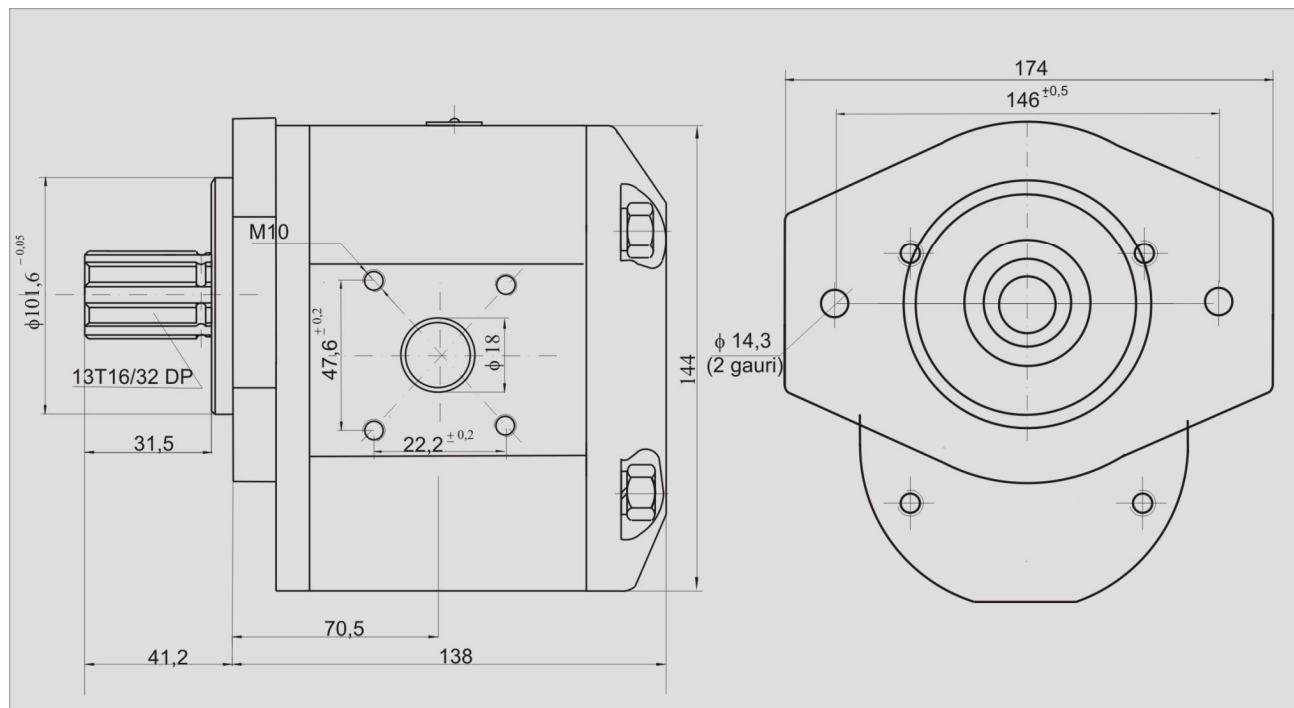
To be ordered part no H 14/9 – 00S- FMA  
H 14/9-00D-FMA

Identic cu PRD3-513 S



# POMPA HIDRAULICA - HYDRAULIC POMP

## PH 14/10 –FMA



### Caracteristici

- \* Numar de sectiuni 1
- \* Debit minim 76 l/min
- \* Volum geometric 45 cm<sup>3</sup>/rot
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiunea maxima 300 Kg/cm<sup>2</sup>
- \* Turatie nominala 1700 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Putere antrenare 32,5 kw
- \* Lichidul de lucru:
  - ulei H 38 STAS 9691 - 80, sau
  - ulei tip M 20 STAS751 - 80
- \* Temperatura de lucru normala 50<sup>0</sup>C
- \* Temperatura maxima admisa 80<sup>0</sup>C
- \* Sensul de rotatie privit dinspre partea antrenarii: antiorar (S); orar (D)
- \* Greutate 9 Kg

Se comanda sub reperul H 14/10-00S-FMA  
H 14/10-00D-FMA

### Characteristics

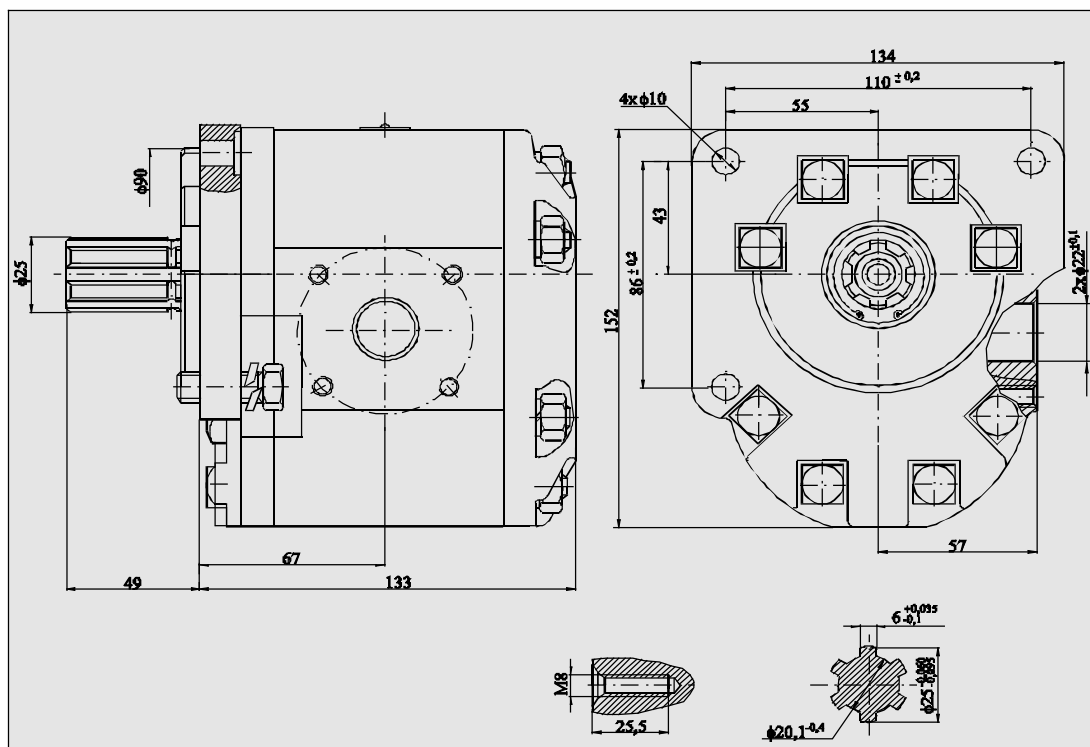
- \* Number of sections 1
- \* Minimum output 76 l/min
- \* Vg 45 cm<sup>3</sup>/rot
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Rated speed 1700 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Drive power 32,5 kw
- \* Operating fluid:
  - TELLUS 33, TELLUS 133,
  - HYDRAULIQUE 130, ETNA 26
  - ENERGOL HL - 100
  - ENERGOL CS - 125, TERESSO 52
  - SHELL VITREA 31/33/37 DIE
  - OIL MEDIUL
- \* Operating temperature 50<sup>0</sup>C
- \* Maximum permissible temperature 80<sup>0</sup>C
- \* Revolving sense : anti – clockwise (S)  
(looking from drive side) –clockwise (D)
- \* Weight 9 Kg

To be ordered part no H 14/10 – 00S- FMA  
H 14/10-00D-FMA



# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12/26



### Caracteristici

- \* Debit minim 34 l/min.
- \* Presiune de lucru 100 Kg/cm<sup>2</sup>
- \* Presiunea maxima 130 Kg/cm<sup>2</sup>
- \* Turatie nominala 1300rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Lichid de lucru :  
ulei T 7 EP 1 STAS 10667 - 87,  
sau ulei M 20 STAS 751 - 80

- \* Temperatura de lucru  
normala 50<sup>0</sup> C
- \* Temperatura maxima  
admisa 80<sup>0</sup> C
- \* Sens de rotatie privit dinspre  
partea antrenarii: antiorar
- \* Volum geometric 30 cm<sup>3</sup>/rot
- \* Greutate 7 Kg

Se comanda sub reperul H 12 - 00 26 S  
( fara roata de antrenare )

### Variante constructive

- H 12 - 00 26** Inlocuieste pompa FS PR 1, sens de  
rotatie stanga
- H 12 - 01 26** Cu roata de antrenare 26 12 123 1  
sens de rotatie: stanga
- H 12 - 01 26 SL** Se utilizeaza ca pompa de  
transfer la locomotiva LDH
- H 12 - 01 26 SM** Se utilizeaza pe autobasculanta  
sens de rotatie : dreapta

### Characteristics

- \* Minimum output 34 l/min.
- \* Operating pressure 100 Kp/sq.cm
- \* Maximum pressure 130 Kp/sq.cm
- \* Rated speed 1300 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating fluid :  
SHELL VITREA 31/33/37  
SHELL 100 - 20 W  
DTE OIL MEDIUM : ENERGOL  
CS 125, MOBILUBE  
GEAR OIL GP 80,  
TRACTOR UNIVERSAL OIL S
- \* Operating temperature 50<sup>0</sup> C  
(optimum)
- \* Maximum permissible  
temperature 80<sup>0</sup> C
- \* Revolving sense: anti - clockwise  
(looking from drive side)

- \* Weight 7 Kg

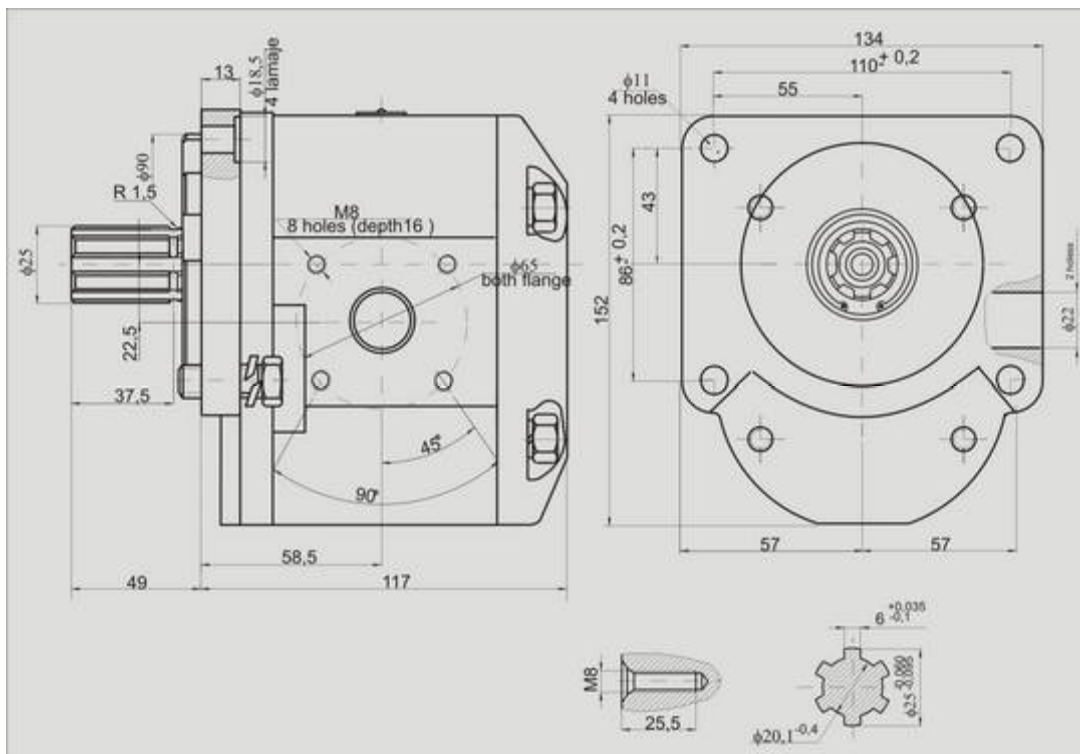
To be ordered under part no H 12 - 00 26 S  
( Without drive gear )

### Constructive variant

- H 12 - 00 26** It replaces the FS PR 1 pump, revolving  
sense : left
- H 12 - 01 26** With carrying wheel 26 12 123 1,  
revolving sense : left
- H 12 - 01 26 SL** It is used as transfer pump for  
LDH locomotive
- H 12 - 01 26 SM** It is user for weighing mashines,  
revolving sense : right

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12/26 F



## Caratteristiche

- \* Debit minim 34 l/min.
- \* Volum geometric 30 cm<sup>3</sup>/rot
- \* Presiune de lucru 250 Kg/cm<sup>2</sup>
- \* Presiunea maxima 300 Kg/cm<sup>2</sup>
- \* Turatie nominala 1300rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Lichid de lucru :  
ulei T 7 EP 1 STAS 10667 - 87,  
sau ulei M 20 STAS 751 - 80

- \* Temperatura de lucru normala 50<sup>0</sup> C
- \* Temperatura maxima admisa 80<sup>0</sup> C
- \* Sens de rotatie privit dinspre partea antrenarii: antiorar
- \* Greutate 8,3 Kg

Se comanda sub reperul H 12 - 00 26 S-F  
( fara roata de antrenare )

### **Variante constructive**

- H 12 - 00 26-F** Inlocuieste pompa FS PR 1, sens de  
rotatie stanga
- H 12 - 01 26-F** Cu roata de antrenare 26 12 123 1  
sens de rotatie: stanga
- H 12 - 01 26 SL-F** Se utilizeaza ca pompa de  
transfer la locomotiva LDH
- H 12 - 01 26 SM-F** Se utilizeaza pe autobasculanta  
sens de rotatie : dreapta

## Characteristics

- \* Minimum output 34 l/min.
- \*  $V_g = 30 \text{ cm}^3/\text{rot}$
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Rated speed 1300 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating fluid :  
SHELL VITREA 31/33/37  
SHELL 100 - 20 W  
DTE OIL MEDIUM : ENERGOL  
CS 125, MOBILUBE  
GEAR OIL GP 80,  
TRACTOR UNIVERSAL OIL S
- \* Operating temperature  $50^0 \text{ C}$   
(optimum)
- \* Maximum permissible  
temperature  $80^0 \text{ C}$
- \* Revolving sense: anti - clockwise  
(looking from drive side)
- \* Weight 8,3 Kg

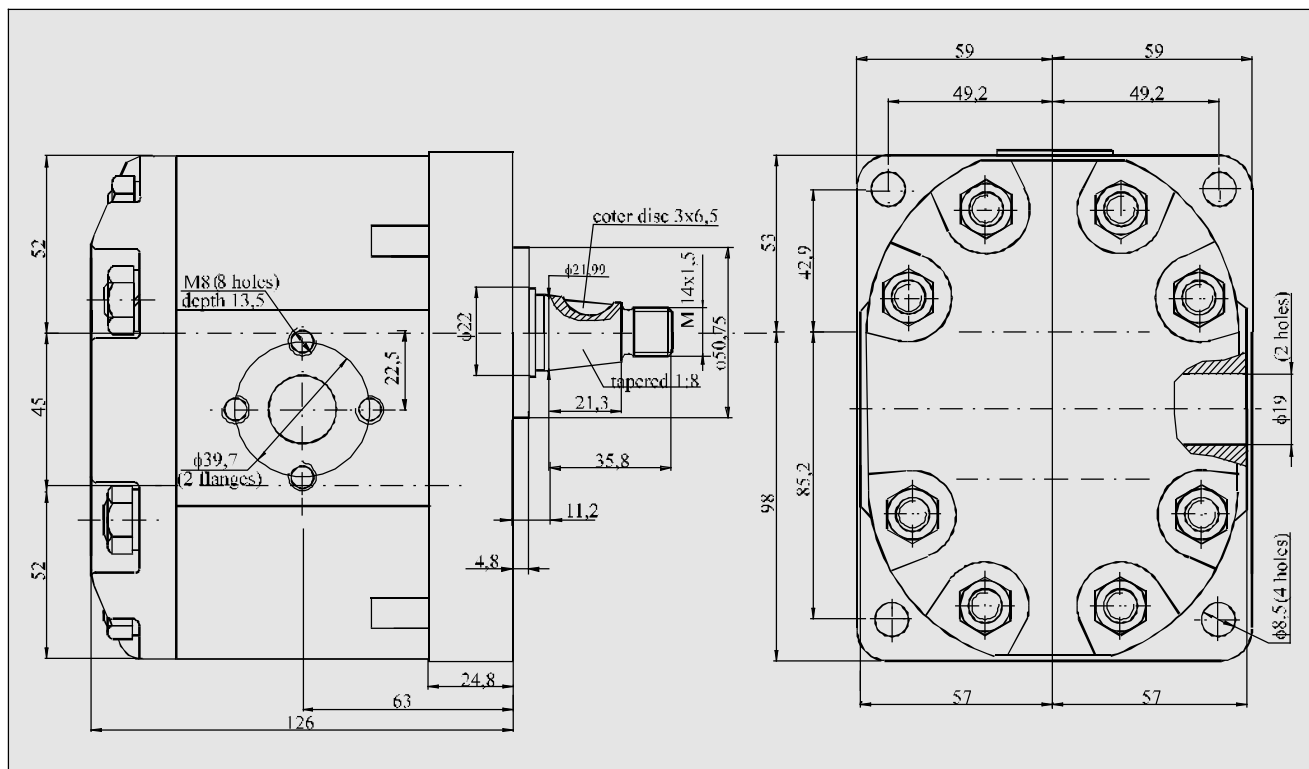
To be ordered under part no H 12 - 00 26 S-F  
( Without drive gear )

**Constructive variant**

- H 12 - 00 26-F** It replaces the FS PR 1 pump, revolving sense : left
- H 12 - 01 26-F** With carrying wheel 26 12 123 1, revolving sense : left
- H 12 - 01 26 SL-F** It is used as transfer pump for LDH locomotive
- H 12 - 01 26 SM-F** It is user for weighing mashines, revolving sense : right

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Presiunea maxima de lucru 175 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 40 l/min
- \* Volum geometric 20 cm<sup>3</sup>/rot
- \* Puterea de antrenare 15,5 Kw
- \* Sensul de rotire privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii , corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 36 - 40 cSt la 50<sup>0</sup>C si 7,4 cSt la 100<sup>0</sup>C
- \* Temperatura normala de lucru a uleiului 50<sup>0</sup>C
- \* Temperatura maxima de lucru a uleiului 80<sup>0</sup>C
- \* Masa 5,1 Kg

Se comanda sub reperul H 12 - 00

### Varianta constructiva

Se comanda sub reperul H 12 - 00 S

Sensul de rotire, privit dinspre antrenare:  
antiorar

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum operating pressure 175 Kp/sq.cm
- \* Output at operating pressure 40 l/min
- \* Drive power 15,5 Kw
- \* Revolving sense, looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 36 - 40 cSt at 50<sup>0</sup>C and 7,4 cSt at 100<sup>0</sup>C
- \* Oil operating temperature 50<sup>0</sup>C
- \* Maximum oil temperature 80<sup>0</sup>C
- \* Weight 5,1 Kg

To be ordered under part no H 12 - 00

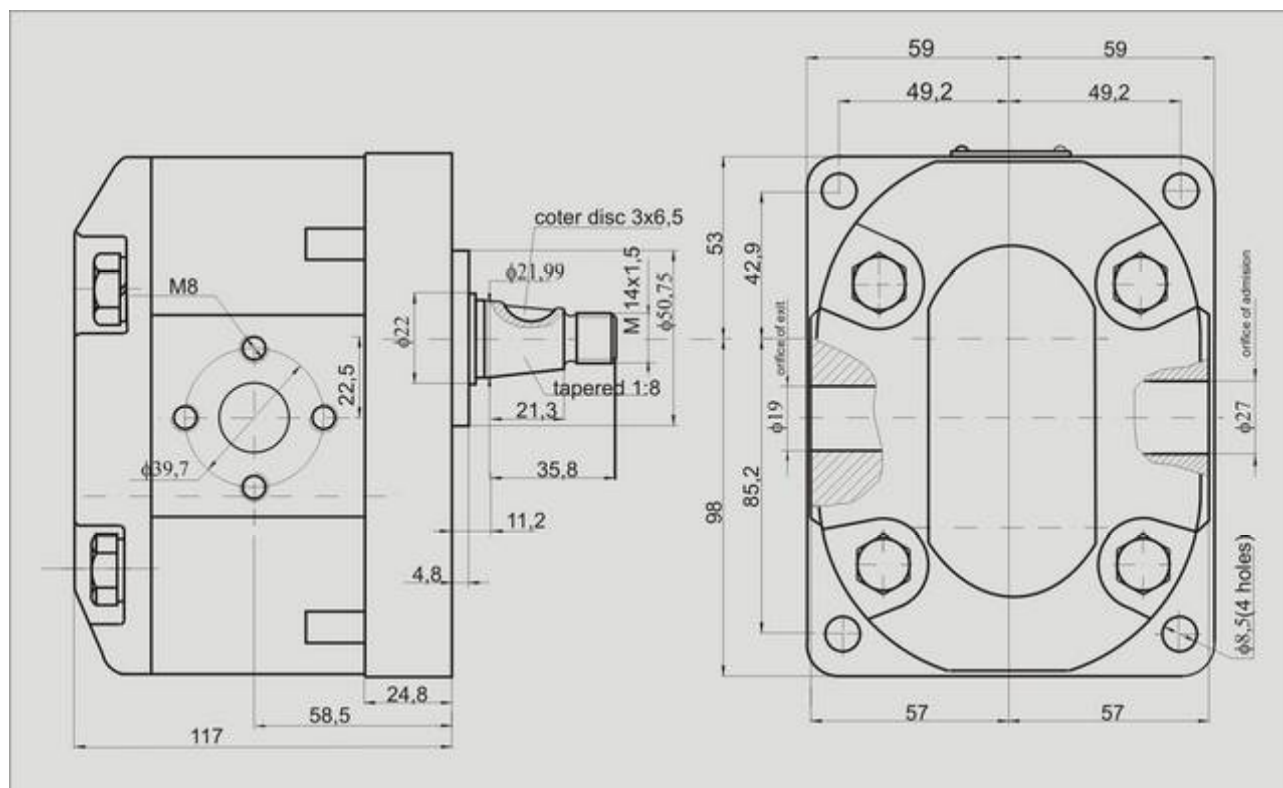
### Constructive variant

To be ordered under part no H 12 - 00 S

Revolving sense, looking from drive side:  
anti - clockwise

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12 - F



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Presiunea maxima de lucru 300 Kg/cm<sup>2</sup>
- \* Presiunea nominala 250 kgf/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 40 l/min
- \* Volum geometric 20 cm<sup>3</sup>/rot
- \* Puterea de antrenare 15,5 Kw
- \* Sensul de rotire privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii , corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 36 - 40 cSt la 50<sup>0</sup>C si 7,4 cSt la 100<sup>0</sup>C
- \* Temperatura normala de lucru a uleiului 50<sup>0</sup>C
- \* Temperatura maxima de lucru a uleiului 80<sup>0</sup>C
- \* Masa 7,9 Kg

Se comanda sub reperul H 12 – 00- F

### Varianta constructiva

Se comanda sub reperul H 12 - 00 S- F

Sensul de rotire, privit dinspre antrenare:  
antiorar

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum operating pressure 300 Kp/sq.cm
- \* Nominal pressure 250 Kp/sq.cm
- \* Output at operating pressure 40 l/min
- \* Drive power 15,5 Kw
- \* Revolving sense, looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive  
Oil viscosity must be between 36 - 40 cSt at 50<sup>0</sup>C and 7,4 cSt at 100<sup>0</sup>C
- \* Oil operating temperature 50<sup>0</sup>C
- \* Maximum oil temperature 80<sup>0</sup>C
- \* Weight 7,9 Kg

To be ordered under part no H 12 – 00- F

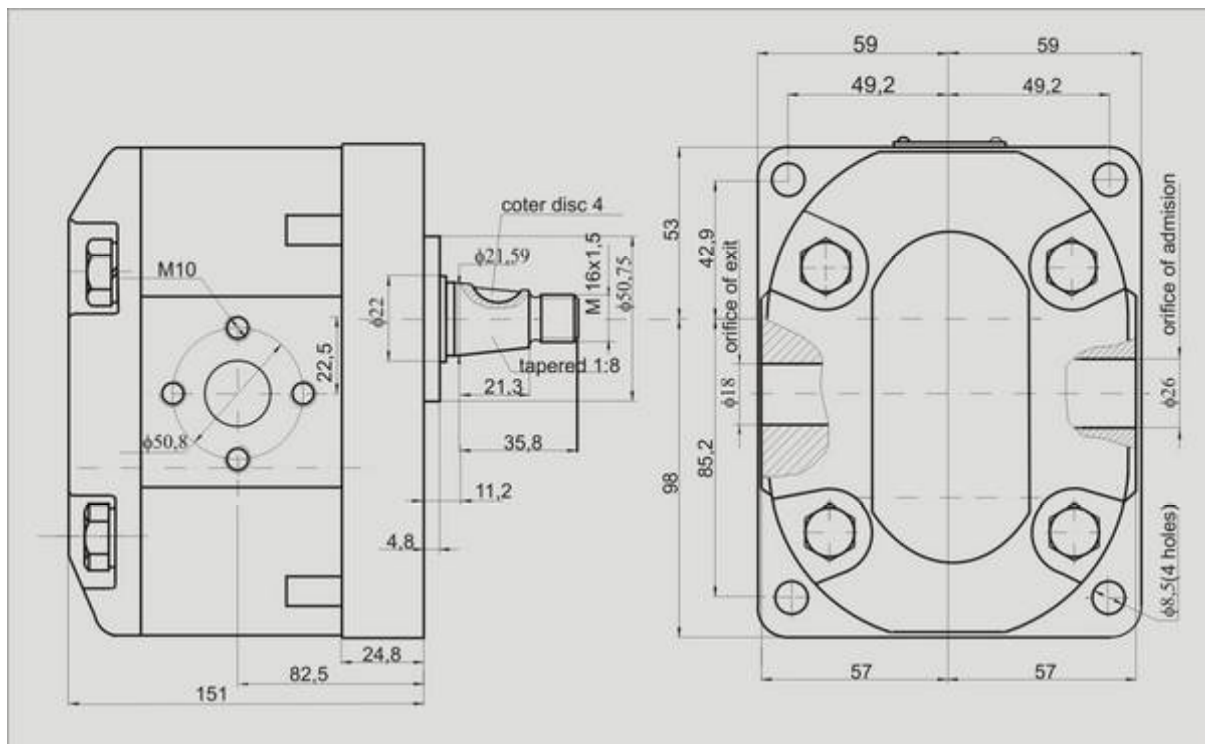
### Constructive variant

To be ordered under part no H 12 - 00 S- F

Revolving sense, looking from drive side:  
anti - clockwise

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12/2 F



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiune maxima 300 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 140 l/min
- \* Volum geometric 70 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50°C si de 6,5 cSt la 100°C
- \* Temperatura normala de lucru a uleiului 50°C
- \* Temperatura maxima de lucru a uleiului 80°C

\* Masa 9 Kg

Se comanda sub reperul H 12/2 - 00 D-F

#### Varianta constructiva

Se comanda sub reperul H 12/2 - 00 S-F

Sens de rotire privit dinspre antrenare: antiorar

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Output: 140 l/min
- \* Drive power 21,5 Kw
- \* Revolving sense looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50°C and 6,5 cSt at 100°C
- \* Oil operating temperature 50°C
- \* Maximum permissible temperature of the oil 80°C
- \* Weight 9 Kg

To be ordered under part no H 12/2 - 00 D-F

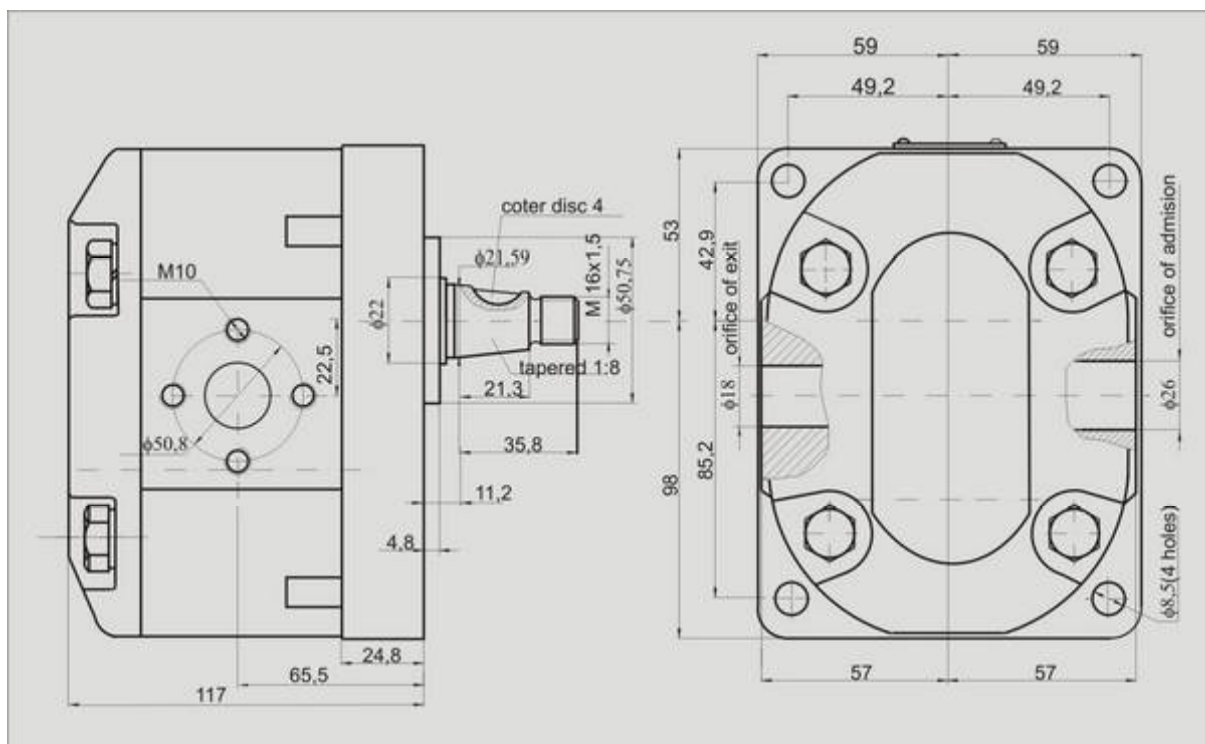
#### Constructive variant

To be ordered under part no H 12/2 - 00 S-F

Revolving sense, looking from drive side:  
anti - clockwise

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12/3 F



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiune maxima 300 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 60 l/min
- \* Volum geometric 30 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50°C si de 6,5 cSt la 100°C
- \* Temperatura normala de lucru a uleiului 50°C
- \* Temperatura maxima de lucru a uleiului 80°C

\* Masa 8,2 Kg

Se comanda sub reperul H 12/3 - 00 D-F

### Varianta constructiva

Se comanda sub reperul H 12/3 - 00 S-F

Sens de rotire privit dinspre antrenare: antiorar

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Output: 60 l/min

\* Drive power 21,5 Kw

\* Revolving sense looking from drive side: clockwise

\* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50°C and 6,5 cSt at 100°C

\* Oil operating temperature 50°C

\* Maximum permissible temperature of the oil 80°C

\* Weight 8,2 Kg

To be ordered under part no H 12/3 - 00 D-F

### Constructive variant

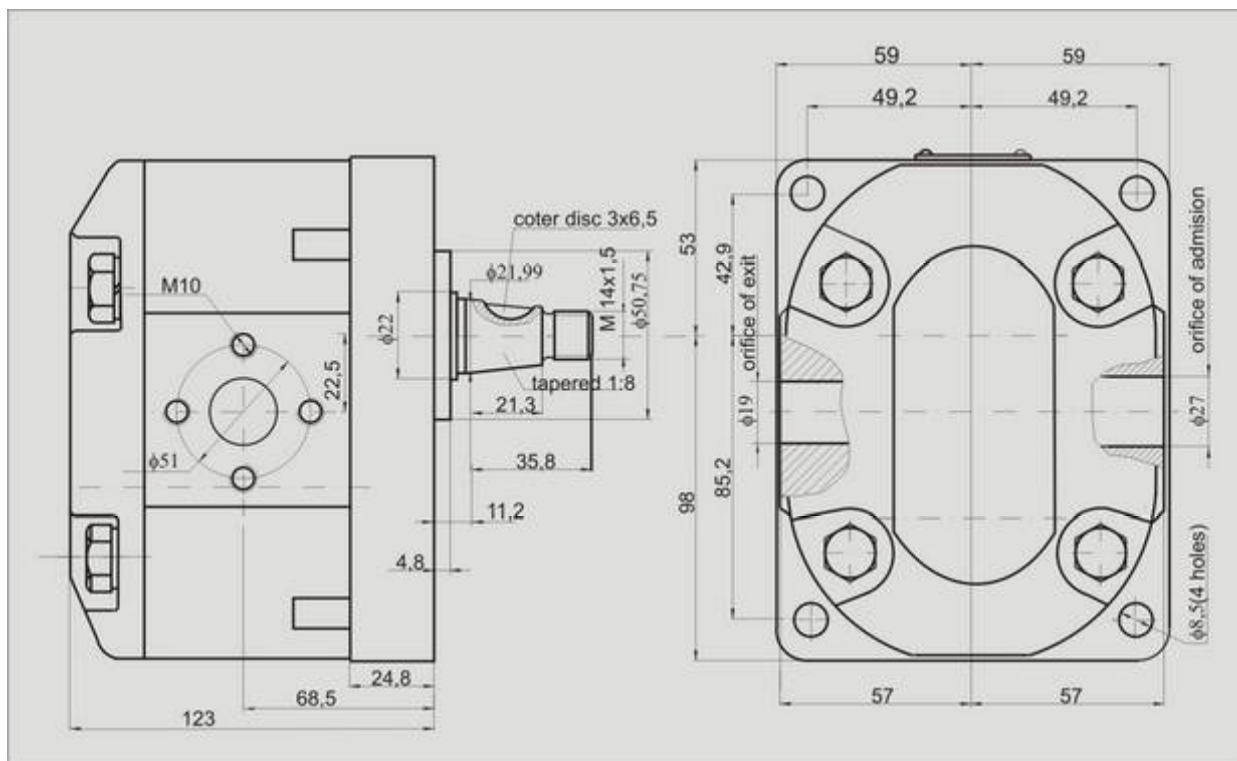
To be ordered under part no H 12/3 - 00 S-F

Revolving sense, looking from drive side: anti - clockwise

Utilizare: TRACTOR LANDINII

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12/4 F



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiune maxima 300 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 72 l/min
- \* Volum geometric 36 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50°C si de 6,5 cSt la 100°C
- \* Temperatura normala de lucru a uleiului 50°C
- \* Temperatura maxima de lucru a uleiului 80°C

\* Masa 8,6 Kg

Se comanda sub reperul H 12/4 - 00 D-F

### Varianta constructiva

Se comanda sub reperul H 12/4 - 00 S-F

Sens de rotire privit dinspre antrenare: antiorar

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Output: 72 l/min
- \* Drive power 21,5 Kw
- \* Revolving sense looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50°C and 6,5 cSt at 100°C
- \* Oil operating temperature 50°C
- \* Maximum permissible temperature of the oil 80°C
- \* Weight 8,6 Kg

To be ordered under part no H 12/4 - 00 D-F

### Constructive variant

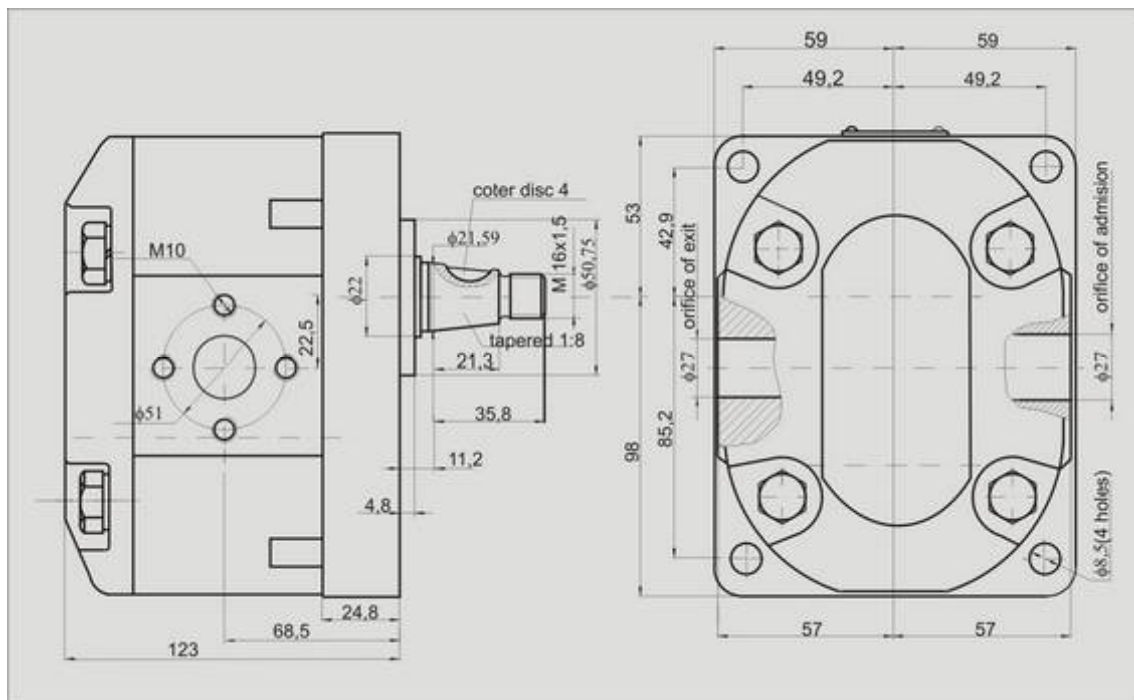
To be ordered under part no H 12/4 - 00 S-F

Revolving sense, looking from drive side: anti - clockwise



# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12/4 F1



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiune maxima 300 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 72 l/min
- \* Volum geometric 36 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei.
- \* Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50<sup>0</sup>C si de 6,5 cSt la 100<sup>0</sup>C
- \* Temperatura normala de lucru a uleiului 50<sup>0</sup>C
- \* Temperatura maxima de lucru a uleiului 80<sup>0</sup>C

\* Masa 8,6 Kg

Se comanda sub reperul H 12/4 - 00 D-

### Varianta constructiva

Se comanda sub reperul H 12/4 - 00 S-F1

Sens de rotire privit dinspre antrenare: antiorar

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Output: 72 l/min
- \* Drive power 21,5 Kw
- \* Revolving sense looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50<sup>0</sup>C and 6,5 cSt at 100<sup>0</sup>C
- \* Oil operating temperature 50<sup>0</sup>C
- \* Maximum permissible temperature of the oil 80<sup>0</sup>C

\* Weight 8,6 Kg

To be ordered under part no H 12/4 - 00 D-F1

### Constructive variant

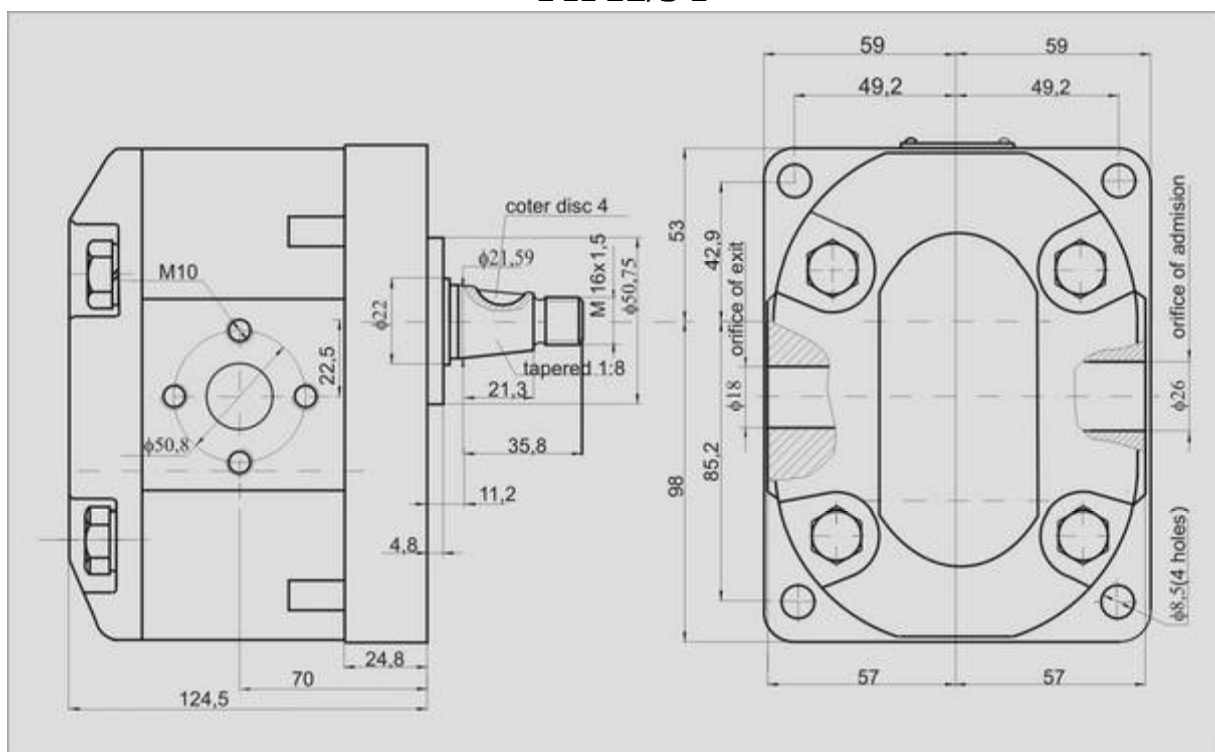
To be ordered under part no H 12/4 - 00 S-F1

Revolving sense, looking from drive side: anti - clockwise



# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12/5 F



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiune maxima 300 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 76 l/min
- \* Volum geometric 38 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50°C si de 6,5 cSt la 100°C
- \* Temperatura normala de lucru a uleiului 50°C
- \* Temperatura maxima de lucru a uleiului 80°C

\* Masa 8,8 Kg

Se comanda sub reperul H 12/5 - 00 D-F

Identic cu PRD 3-214D

#### Varianta constructiva

Se comanda sub reperul H 12/5 - 00 S-F

Sens de rotire privit dinspre antrenare: antiorar  
Identic cu PRD 3-214S

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Output: 76 l/min

- \* Drive power 21,5 Kw
- \* Revolving sense looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50°C and 6,5 cSt at 100°C
- \* Oil operating temperature 50°C
- \* Maximum permissible temperature of the oil 80°C

\* Weight 8,8 Kg

To be ordered under part no H 12/5 - 00 D-F

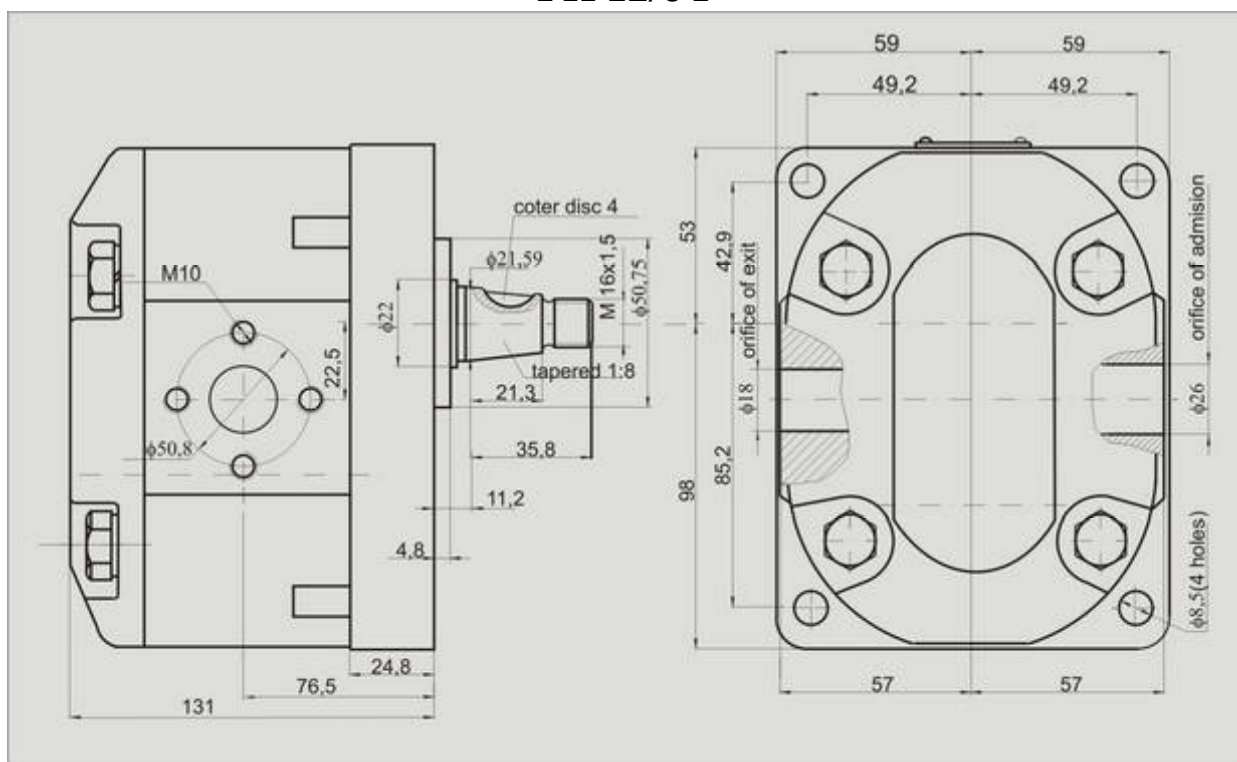
#### Constructive variant

To be ordered under part no H 12/5 - 00 S-F

Revolving sense, looking from drive side:  
anti - clockwise

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12/6 F



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiune maxima 300 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 90 l/min
- \* Volum geometric 45 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50<sup>0</sup>C si de 6,5 cSt la 100<sup>0</sup>C
- \* Temperatura normala de lucru a uleiului 50<sup>0</sup>C
- \* Temperatura maxima de lucru a uleiului 80<sup>0</sup>C

\* Masa 9,5 Kg

Se comanda sub reperul H 12/6 - 00 D-F

Identic cu PRD 3-215D

#### Varianta constructiva

Se comanda sub reperul H 12/6 - 00 S-F

Sens de rotire privit dinspre antrenare: antiorar  
Identic cu PRD 3-215S

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Output: 90 l/min
- \* Drive power 21,5 Kw
- \* Revolving sense looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50<sup>0</sup>C and 6,5 cSt at 100<sup>0</sup>C
- \* Oil operating temperature 50<sup>0</sup>C
- \* Maximum permissible temperature of the oil 80<sup>0</sup>C
- \* Weight 9,5 Kg

To be ordered under part no H 12/6 - 00 D-F

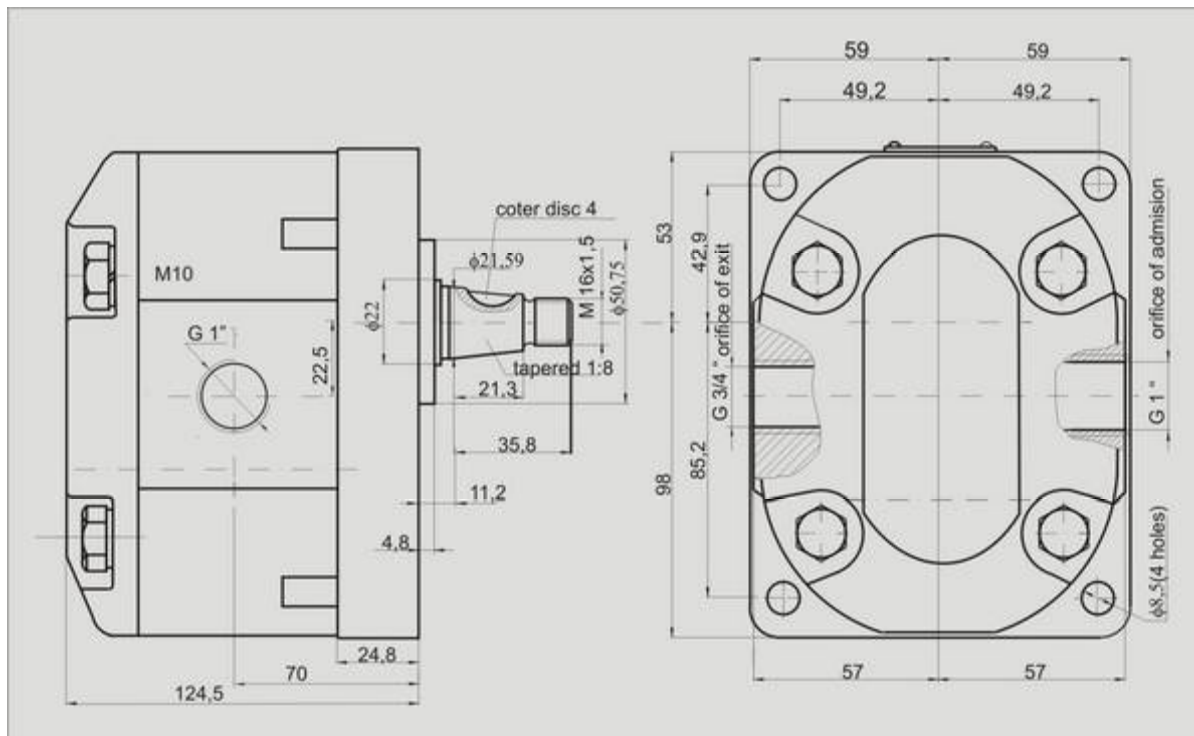
#### Constructive variant

To be ordered under part no H 12/6 - 00 S-F

Revolving sense, looking from drive side:  
anti - clockwise

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12/5 FG



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiune maxima 300 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 76 l/min
- \* Volum geometric 38 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50°C si de 6,5 cSt la 100°C
- \* Temperatura normala de lucru a uleiului 50°C
- \* Temperatura maxima de lucru a uleiului 80°C

\* Masa 8,8 Kg

Se comanda sub reperul H 12/5 - 00 D-FG

Identic cu PRD 3-214D 3/4"-1"

### Varianta constructiva

Se comanda sub reperul H 12/5 - 00 S-FG

Sens de rotire privit dinspre antrenare: anti-orar  
Identic cu PRD 3-214S 3/4"-1"

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Output: 76 l/min

- \* Drive power 21,5 Kw
- \* Revolving sense looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50°C and 6,5 cSt at 100°C
- \* Oil operating temperature 50°C
- \* Maximum permissible temperature of the oil 80°C

\* Weight 8,8 Kg

To be ordered under part no H 12/5 - 00 D-FG

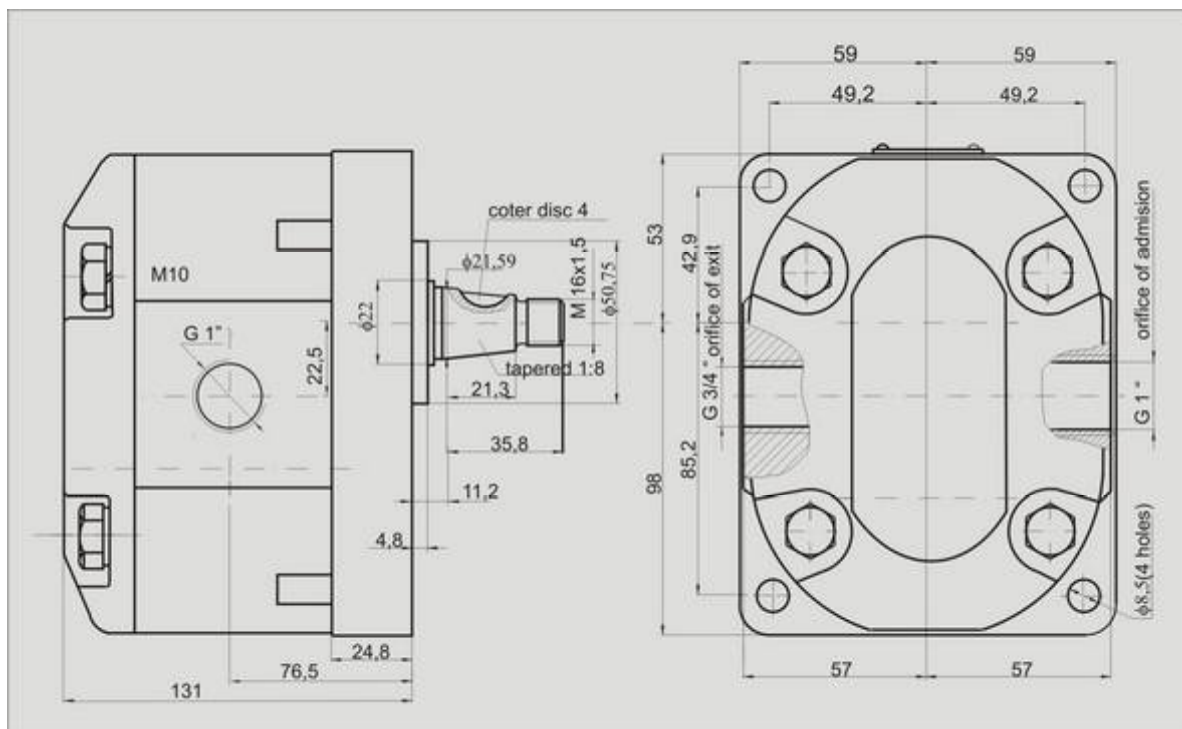
### Constructive variant

To be ordered under part no H 12/5 - 00 S-FG

Revolving sense, looking from drive side: anti - clockwise

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 12/6 FG



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 250 Kgf/cm<sup>2</sup>
- \* Presiune maxima 300 Kgf/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 90 l/min
- \* Volum geometric 45 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50<sup>0</sup>C si de 6,5 cSt la 100<sup>0</sup>C
- \* Temperatura normala de lucru a uleiului 50<sup>0</sup>C
- \* Temperatura maxima de lucru a uleiului 80<sup>0</sup>C

\* Masa 9,5 Kg

Se comanda sub reperul H 12/6 - 00 D-FG

Identic cu PRD 3-215D 3/4"-1"

#### Varianta constructiva

Se comanda sub reperul H 12/6 - 00 S-FG

Sens de rotire privit dinspre antrenare: antiorar  
Identic cu PRD 3-215S 3/4"-1"

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Output: 90 l/min
- \* Drive power 21,5 Kw
- \* Revolving sense looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50<sup>0</sup>C and 6,5 cSt at 100<sup>0</sup>C
- \* Oil operating temperature 50<sup>0</sup>C
- \* Maximum permissible temperature of the oil 80<sup>0</sup>C
- \* Weight 9,5 Kg

To be ordered under part no H 12/6 - 00 D-FG

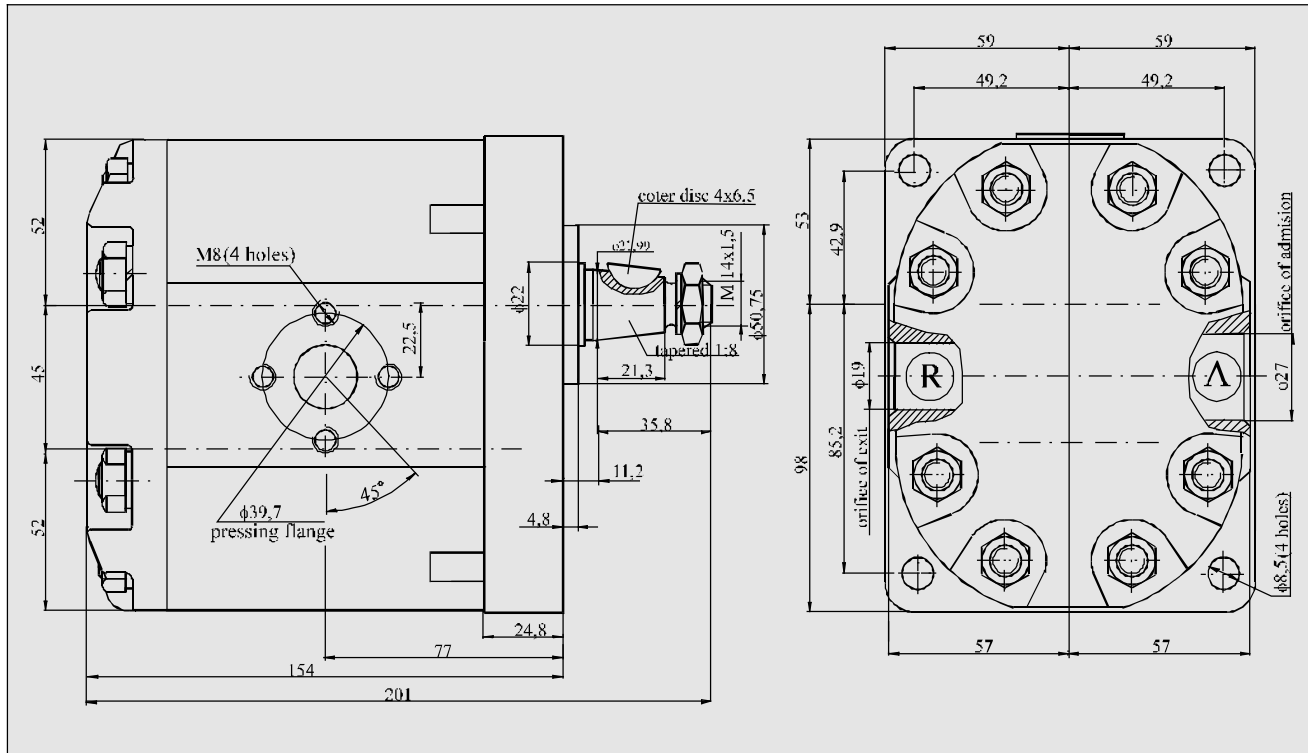
#### Constructive variant

To be ordered under part no H 12/6 - 00 S-FG

Revolving sense, looking from drive side:  
anti - clockwise

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 14



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 150 Kg/cm<sup>2</sup>
- \* Presiune maxima 175 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 60 l/min
- \* Volum geometric 30 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50°C si de 6,5 cSt la 100°C
- \* Temperatura normala de lucru a uleiului 50°C
- \* Temperatura maxima de lucru a uleiului 80°C

\* Masa 7,1 Kg

Se comanda sub reperul H 14 - 01 D

### Varianta constructiva

Se comanda sub reperul H 14 - 01 S

Sens de rotire privit dinspre antrenare: antiorar

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 150 Kp/sq.cm
- \* Maximum pressure 175 Kp/sq.cm
- \* Output: 60 l/min
- \* Drive power 21,5 Kw
- \* Revolving sense looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50°C and 6,5 cSt at 100°C
- \* Oil operating temperature 50°C
- \* Maximum permissible temperature of the oil 80°C

\* Weight 7,1 Kg

To be ordered under part no H 14 - 01 D

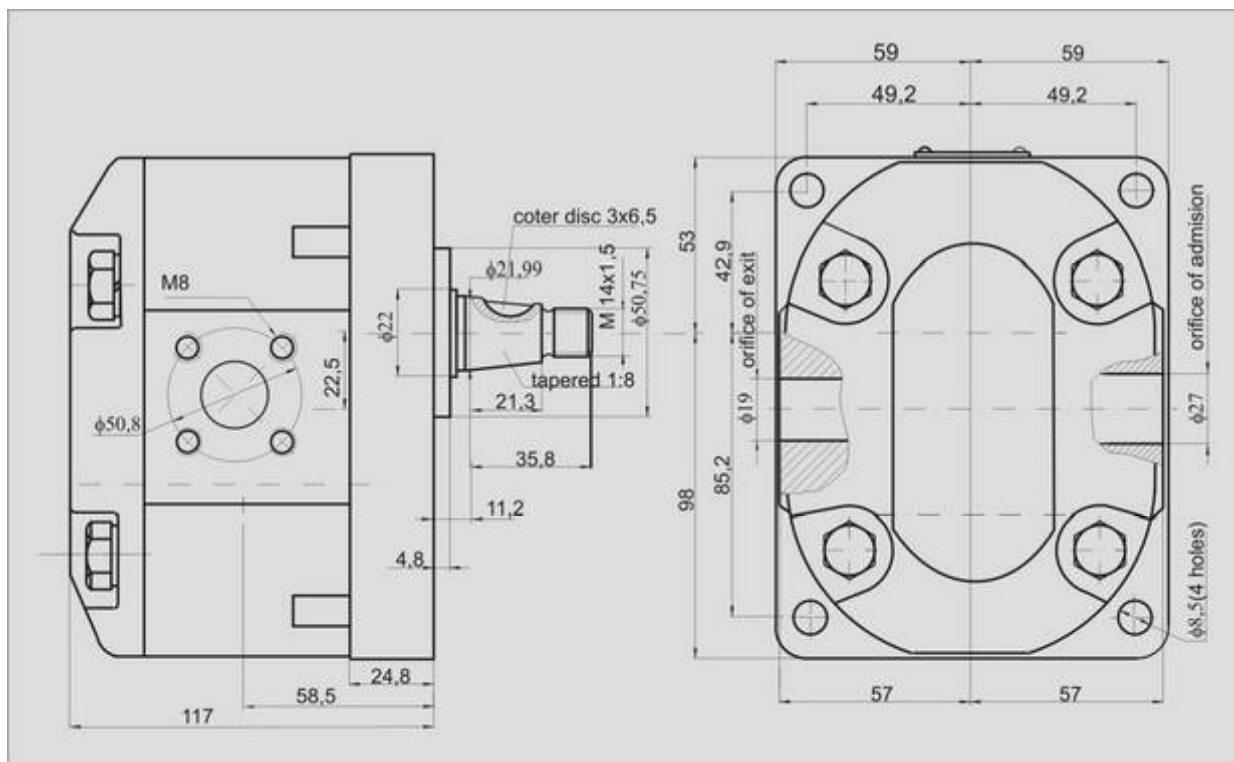
### Constructive variant

To be ordered under part no H 14 - 01 S

Revolving sense, looking from drive side: anti - clockwise

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 14 F



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiune maxima 300 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 60 l/min
- \* Volum geometric 30 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50<sup>0</sup>C si de 6,5 cSt la 100<sup>0</sup>C
- \* Temperatura normala de lucru a uleiului 50<sup>0</sup>C
- \* Temperatura maxima de lucru a uleiului 80<sup>0</sup>C

\* Masa 8,2 Kg

Se comanda sub reperul H 14 - 01 D-F

### Varianta constructiva

Se comanda sub reperul H 14 - 01 S-F

Sens de rotire privit dinspre antrenare: antiorar

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Output: 60 l/min
- \* Drive power 21,5 Kw
- \* Revolving sense looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50<sup>0</sup>C and 6,5 cSt at 100<sup>0</sup>C
- \* Oil operating temperature 50<sup>0</sup>C
- \* Maximum permissible temperature of the oil 80<sup>0</sup>C
- \* Weight 8,2 Kg

To be ordered under part no H 14 - 01 D-F

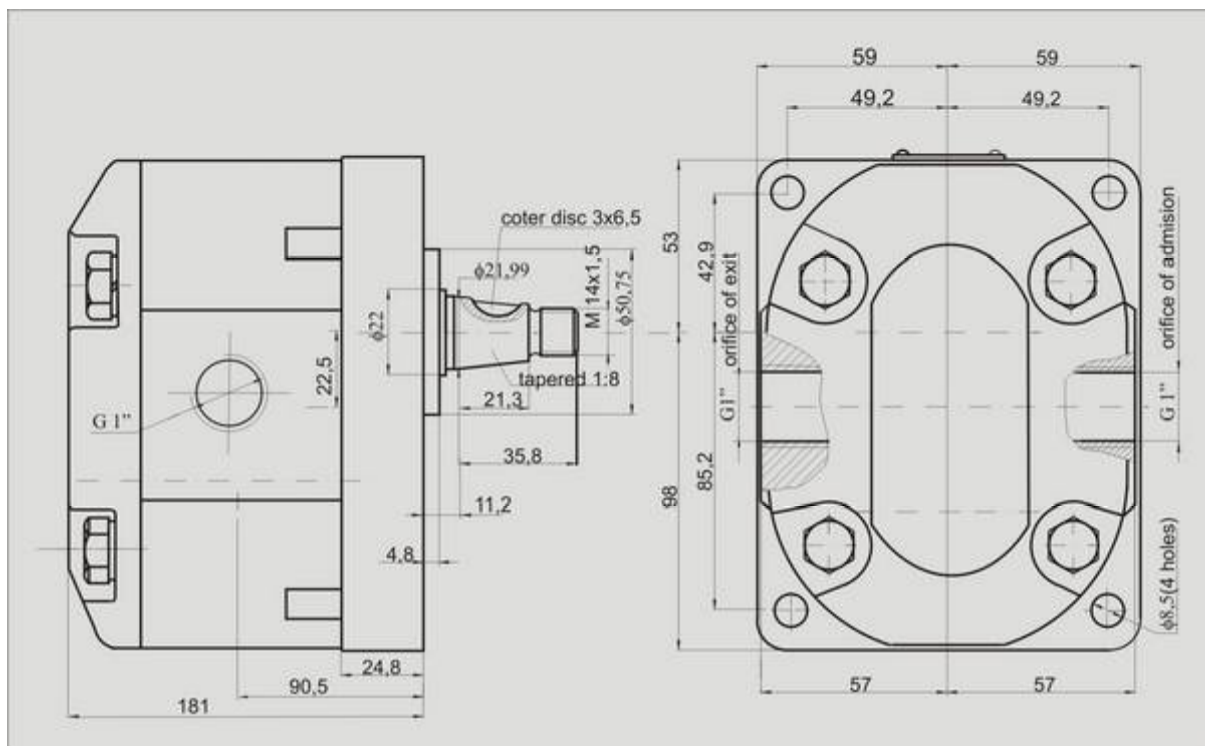
### Constructive variant

To be ordered under part no H 14 - 01 S-F

Revolving sense, looking from drive side:  
anti - clockwise

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 14 MF



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Turatie maxima 2500 rot/min
- \* Turatie minima 800 rot/min
- \* Presiune nominala 250 Kg/cm<sup>2</sup>
- \* Presiune maxima 300 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 230 l/min
- \* Volum geometric 108 cm<sup>3</sup>/rot
- \* Puterea de antrenare 21,5 Kw
- \* Sens de rotatie privit dinspre antrenare: orar
- \* Lichidul de lucru: ulei aditivat impotriva oxidarii, corodarii si formarii spumei. Viscositatea uleiului sa fie cuprinsa intre 29 - 45 cSt la 50°C si de 6,5 cSt la 100°C
- \* Temperatura normala de lucru a uleiului 50°C
- \* Temperatura maxima de lucru a uleiului 80°C

\* Masa 9,8 Kg

Se comanda sub reperul H 14 - 01 D-MF

### Varianta constructiva

Se comanda sub reperul H 14 - 01 S-MF

Sens de rotire privit dinspre antrenare: antiorar

### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum speed 2500 r.p.m.
- \* Minimum speed 800 r.p.m.
- \* Operating pressure 250 Kp/sq.cm
- \* Maximum pressure 300 Kp/sq.cm
- \* Output: 230 l/min
- \* Drive power 21,5 Kw
- \* Revolving sense looking from drive side: clockwise
- \* Operating fluid: oil with anti - foaming, anti - oxidating and anti - corrosive additive. Oil viscosity must be between 29 - 45 cSt at 50°C and 6,5 cSt at 100°C
- \* Oil operating temperature 50°C
- \* Maximum permissible temperature of the oil 80°C

\* Weight 9,8 Kg

To be ordered under part no H 14 - 01 D-MF

### Constructive variant

To be ordered under part no H 14 - 01 S-MF

Revolving sense, looking from drive side: anti - clockwise

Technical drawing of a mechanical component, showing a top view and a side view.

**Top View Dimensions:**

- Overall width: 205
- Overall height: 148
- Distance from left edge to center of  $\phi 16$  hole: 48
- Distance from top edge to center of  $\phi 16$  hole: 22,5
- Distance from center of  $\phi 16$  hole to center of  $\phi 8$  hole: 26
- Distance from bottom edge to center of  $\phi 8$  hole: 28
- Distance from right edge to center of  $\phi 8$  hole: 90
- Distance from right edge to center of  $\phi 16$  hole: 110
- Central hole diameter:  $\phi 16$
- Four smaller holes: M8, 4 holes
- Left side feature: tapered 1:5
- Left side hole: M16

**Side View Dimensions:**

- Width: 21
- Height: 20



# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH - 8

### Caracteristici

- \* Numar de sectiuni 2
- \* Admisia este comuna pentru ambele sectiuni, iar refularea separata.
- \* Diametrul orificiului de admisie  $\phi 34$  mm
- \* diametrul orificiului de refulare:
  - pentru sectiunea instalatiei hidraulice  $\phi 13$  mm
  - pentru sectiunea servo-directiei hidraulice  $\phi 10$  mm
- \* Lichidul de lucru ulei: M20 STAS 751 - 80, 31/33/37 sau ulei 775 EP 1 STAS 10667 - 80
- \* Temperatura uleiului de refulare
  - la verificarea debitului  $50^{\circ}\text{C}$
  - maxima de regim  $80^{\circ}\text{C}$
- \* Turatia nominala 2200 rot/min
- \* Sensul de rotatie privit din partea antrenarii: orar
- \* Greutatea 7 Kg

### Sectiunea instalatiei hidraulice

- \* Debit minim 40 l/min
  - \* Presiunea de lucru  $120\text{ Kg/cm}^2$
- \* Presiunea maxima de scurta durata  $150\text{ Kg/cm}^2$
- \* Presiunea maxima este limitata de supapa de siguranta montata in corpul distribuitorului hidraulic.
- \* Volum geometric  $20\text{ cm}^3/\text{rot}$

### Sectiunea servo - directiei hidraulice

- \* Debit minim 10l/min
- \* Presiunea de lucru  $50\text{ kgf/cm}^2$
- \* Volum geometric  $10\text{ cm}^3/\text{rot}$
- \* Presiunea maxima de scurta durata  $80\text{ Kg/cm}^2$
- \* Este prevazuta cu supapa pentru mentinerea constanta a debitului la variatia turatiei

Se comanda sub reperul H 8 - 01

( antrenare prin cuplaj cu arbore conic 1: 5)

### Variante constructive

- H 8 - 01 - 1** Cu roata de antrenare, fixata pe arbore cilindric
- H 8 - 01 M** Fara roata de antrenare
- H 8 - 01 Fc** Cu capac de fonta, pinion de antrenare, conicitate 1:5

### Characteristics

- \* Number of sections 2
- \* Common admission for both sections and separate delivery
- \* Intel part diameter 34 mm
- \* Delivery part diameter :
  - for hydraulic system section 13 mm
  - for pover steering section 10 mm
- \* Operating fluid SHELL VITREA  
  
SHELL 100 W,D+E OIL MEDIUM  
ENERGOL, CS 125, MOBILUBE C80  
GEAR OIL GP 80, TRACTOR  
UNIVERSAL OIL.
- \* Delivery oil temperature:
  - for output check  $50^{\circ}\text{C}$
  - maximum value during operation  $80^{\circ}\text{C}$
- \* Rated speed 2200 r.p.m.
- \* Revolving sense looking from drive side: clockwise
- \* Weight 7 Kg

### Hydraulic sistem section

- \* Minimum output 40 l/min
  - \* Operating pressure  $120\text{ Kp/sq.cm}$
- \* Maximum pressure is limited by the pressure relief valve incorporated in control valve body.

### Pover steering section

- \* Minimum output 10 l/m
- \* Operating pressure  $50\text{ Kp/sq.cm}$
- \* Maximum pressure for a short period  $80\text{ Kp/sq.cm}$
- \* A valve keeps output at a constant value during the speed variation.

To be ordered under part no H 8 - 01

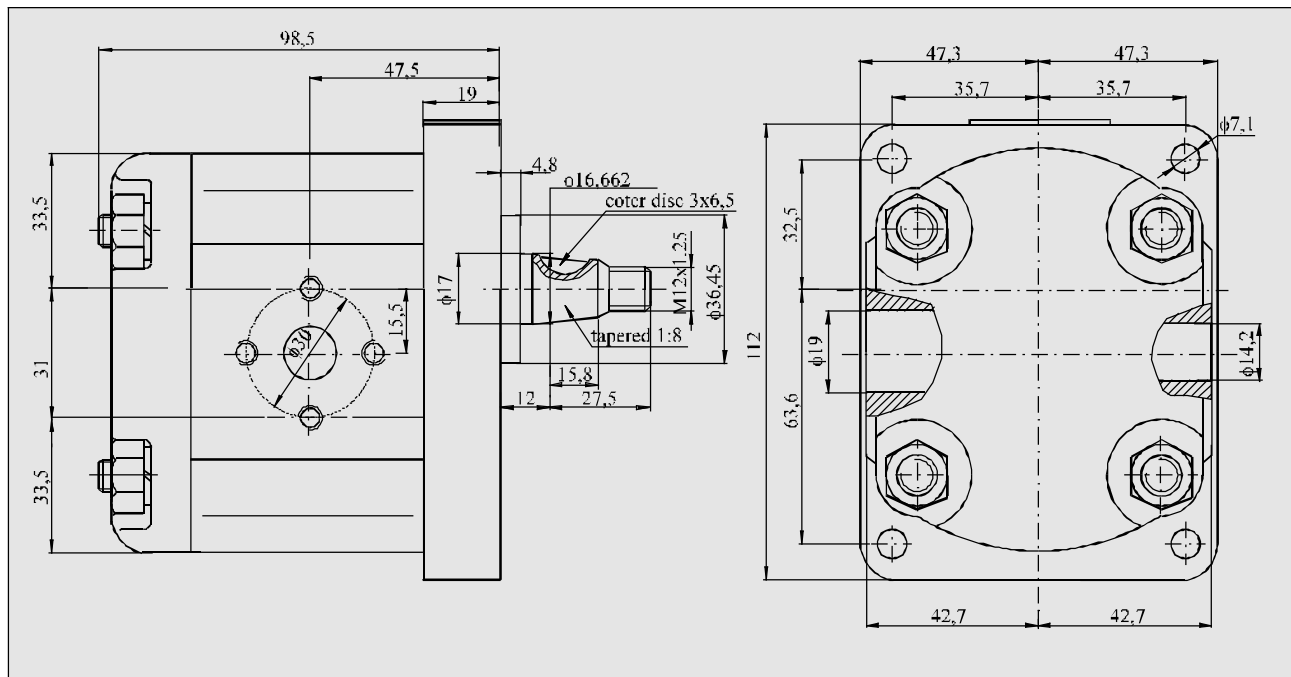
( with coupling drive and shaft tapend head 1:5 )

### Constructive variant

- H 8 - 01 - 1** With drive gear fitted on cylindrical shaft
- H 8 - 01 M** Without drive gear
- H 8 - 01 Fc** With cast iron cap, gear, conicity 1:5

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 13



### Caracteristici

- \* Numar de sectiuni 1
- \* Turatia nominala 2200 rot/min
- \* Presiunea maxima de lucru 100 Kg/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 20 l/min
- \* Volum geometric 10 cm<sup>3</sup>/rot
- \* Puterea de antrenare 7 Kw
- \* Sensul de rotire privind dinspre antrenare: antiorar
- \* Lichidul de lucru:  
ulei aditivat impotriva oxidarii, corodarii si formarii spumei.  
Vascozitatea uleiului sa fie cuprinsa intre 36-40 cSt la 50° C si de 7,4 cSt la 100° C
- \* Temperatura normala de lucru a uleiului 50° C
- \* Temperatura maxima a uleiului 80° C
- \* Masa 2,3 Kg
- \* Diametrul orificiului de admisie  $\phi 19$
- \* Diametrul orificiului de refulare  $\phi 14,2$

Se comanda sub reperul H 13 - 00

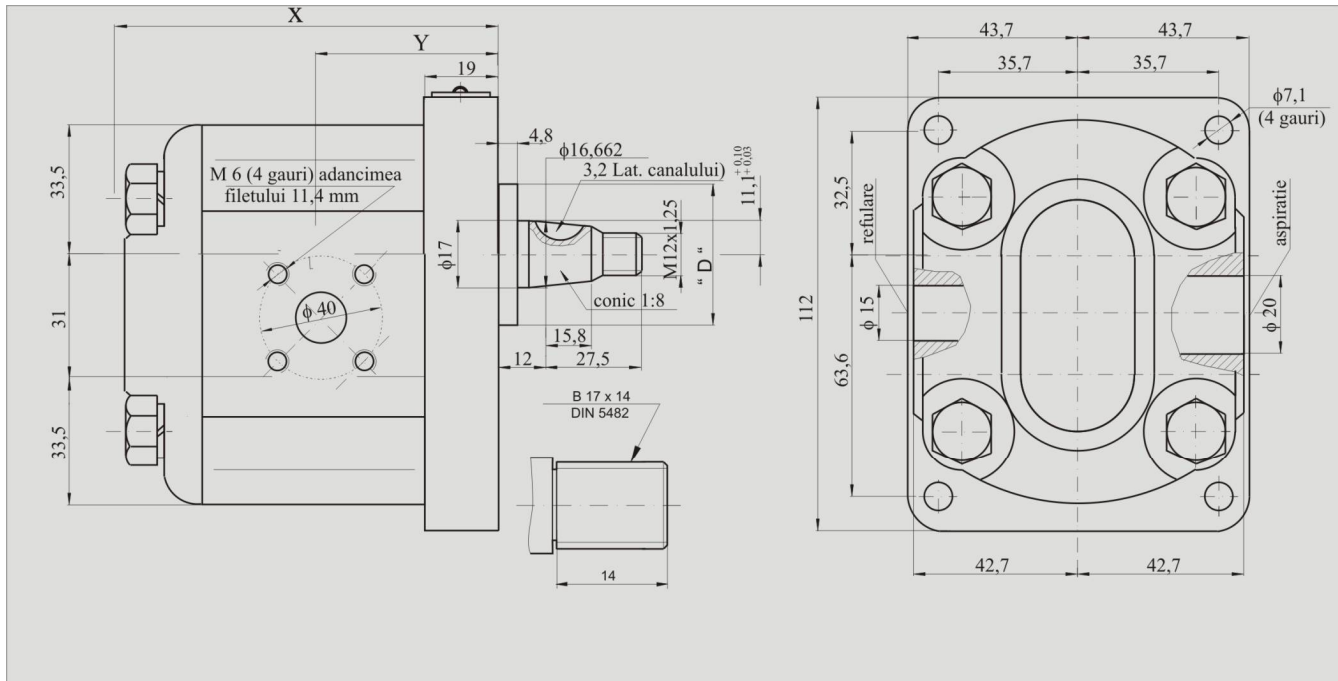
### Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum operating pressure 100 Kp/sq.cm
- \* Output at operating pressure 20 l/min
- \* Drive power 7 Kw
- \* Revolving sense looking from drive side: anti-clockwise
- \* Operating fluid:  
oil with anti-foaming, anti-oxidating and anti-corrosive additive.  
Oil viscosity must be between 36-40 cSt at 50° C and 7,4 cSt at 100° C
- \* Oil operating temperature 50° C
- \* Maximum oil temperature 80° C
- \* Weight 2,3 Kg
- \* Inlet part diameter  $\phi 19$
- \* Delivery part diameter  $\phi 14,2$

To be ordered under part no H 13 - 00

# POMPA HIDRAULICA PH 113 - 00 D/...

## HYDRAULIC PUMP PH 113 - 00D/...



### Caracteristici tehnice:

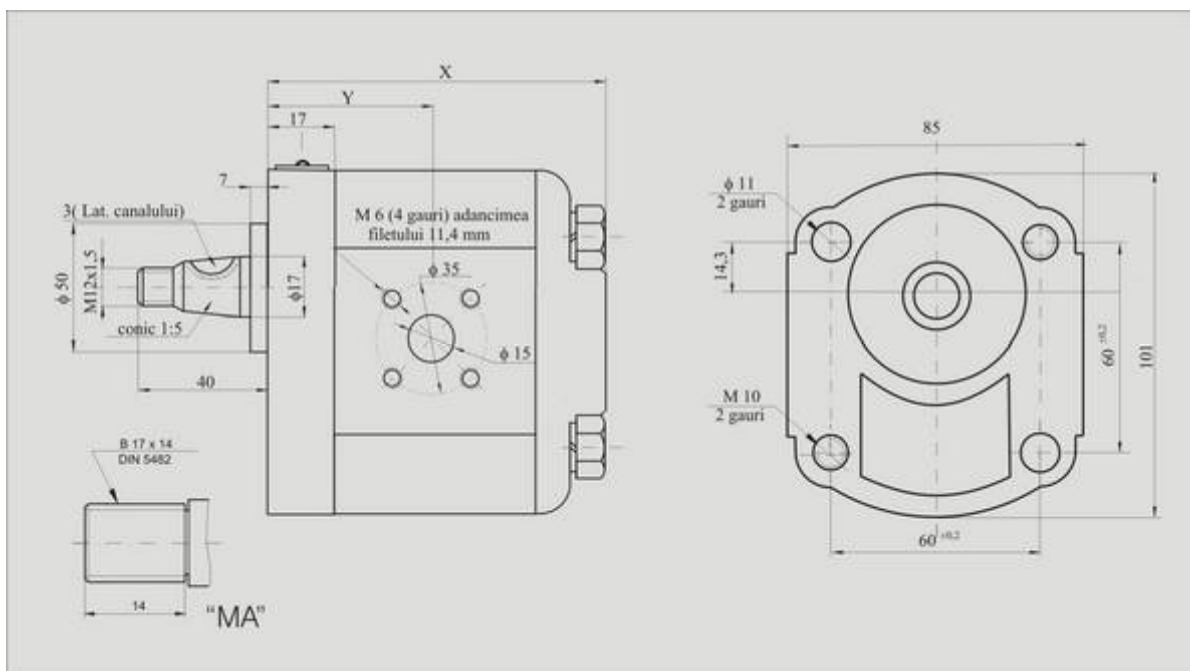
### Technical characteristics:

|     |                                                  |                                                              |                                                  |                                                                          |
|-----|--------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roți dinate                                         | Constructive type                                | Geared pump                                                              |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare                                 | Fixing mode                                      | with flanges and screws                                                  |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)<br>canelura B 17 x 14 DIN 5482 | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order)<br>Slot B 17 x 14 DIN 5482 |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup>                       | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>                                   |
| 5.  | Nivel zgomot:                                    | max. 85 dB                                                   | level of the noise                               | max. 85 dB                                                               |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                                                    | Suction depression for the initial work starting | 150 mm Hg                                                                |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C                          | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C                                      |
| 8.  | n min:                                           | 800 [rot/min]                                                | min. driving shaft speed                         | 800 [rot/min]                                                            |
| 9.  | n max:                                           | 3000 [rot/min]                                               | Maximum driving shaft speed                      | 3000 [rot/min]                                                           |
| 10. | n nom:                                           | 2200 [rot/min]                                               | Nominal driving shaft speed                      | 2200 [rot/min]                                                           |
| 11. | P nom.                                           | 250 bar                                                      | Nominal pressure                                 | 250 bar                                                                  |
| 12. | P max:                                           | 300 bar                                                      | Maximum pressure                                 | 300 bar                                                                  |

| Reper/Item       | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de<br>antrenare/<br>Driving power | Sens/<br>Revolving<br>sense | X     | Y    | D     | Antrenare<br>Driving | Echivalenta/<br>Equivalence |
|------------------|----------------------------------------|------------------------------------------|-----------------------------|-------|------|-------|----------------------|-----------------------------|
| PH 113 -00D/1    | 11                                     | max. 6 kw                                | orar                        | 98,8  | 50,4 | 36,45 | con 1 : 8            |                             |
| PH 113 -00D/1-MA | 11                                     | max. 6 kw                                | orar                        | 98,8  | 50,4 | 36,45 | B 17 x 14            |                             |
| PH 113 -00D/2    | 16                                     | max. 6 kw                                | orar                        | 107,8 | 54,4 | 36,45 | con 1 : 8            |                             |
| PH 113 -00D/2-MA | 16                                     | max. 6 kw                                | orar                        | 107,8 | 54,4 | 36,45 | B 17 x 14            |                             |
| PH 113 -00D/3    | 19                                     | max. 6 kw                                | orar                        | 112,8 | 56,9 | 36,45 | con 1 : 8            |                             |
| PH 113 -00D/4    | 22                                     | max. 6 kw                                | orar                        | 118,8 | 59,9 | 36,45 | con 1 : 8            |                             |
| PH 113 -00D/5    | 10                                     | max. 6 kw                                | orar                        | 97,8  | 49,4 | 36,45 | con 1 : 8            |                             |

# POMPA HIDRAULICA PH 113 - 00 D/...

## HYDRAULIC PUMP PH 113-00 D /...



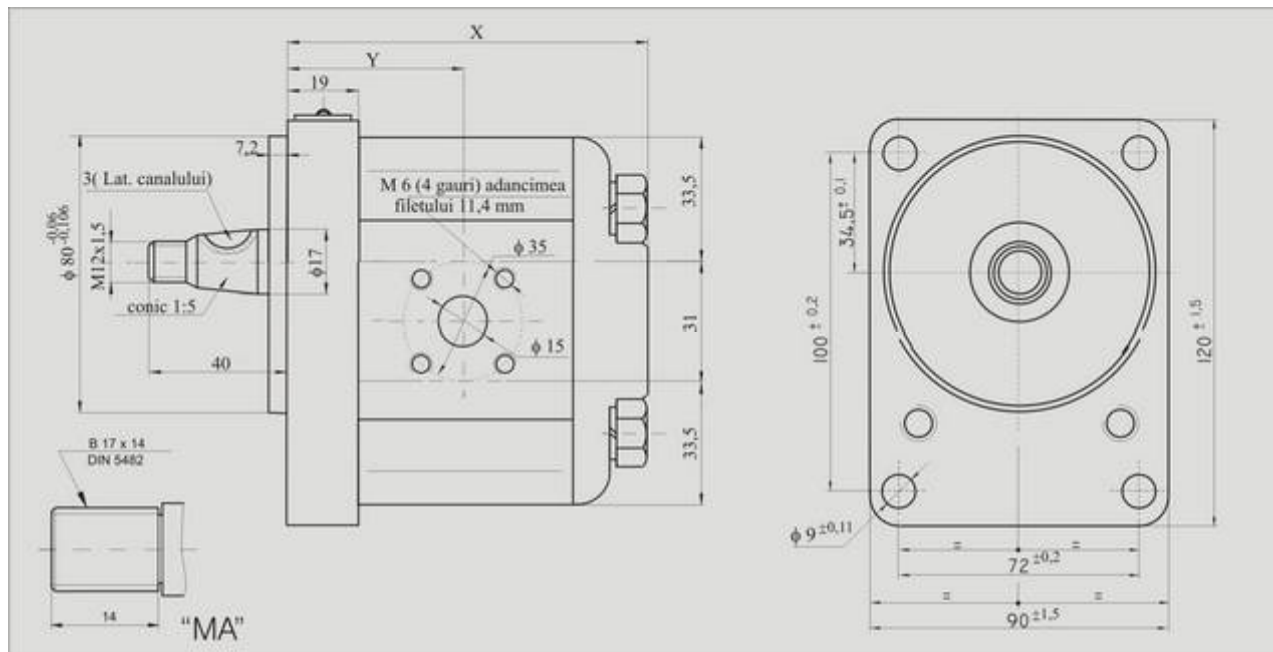
### Caracteristici tehnice:

### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

| Reper/Item                            | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de antrenare/<br>Driving power | Sens/<br>Revolving sense | Antrenare | X   | Y    | Echivalenta/<br>Equivalence |
|---------------------------------------|----------------------------------------|---------------------------------------|--------------------------|-----------|-----|------|-----------------------------|
| PH 113 -00D/14<br>PH 113- 00S/14      | 16                                     | max. 6 kw                             | orar<br>antiorar         | Con 1 : 5 | 109 | 50,5 |                             |
| PH 113 -00D/20<br>PH 113- 00S/20      | 11                                     | max. 6 kw                             | orar<br>antiorar         | Con 1 : 5 | 103 | 47,5 |                             |
| PH 113 -00D/21<br>PH 113- 00S/21      | 22                                     | max. 6 kw                             | orar<br>antiorar         | Con 1 : 5 | 122 | 57   |                             |
| PH 113 -00D/21MA<br>PH 113- 00S/21 MA | 22                                     | max. 6 kw                             | orar<br>antiorar         | B 17 x 14 | 122 | 57   |                             |

**POMPA HIDRAULICA PH 113 - 00 D/...**  
**HYDRAULIC PUMP PH 113-00 D /...**



*Caracteristici tehnice:*

*Technical characteristics:*

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

| Reper/Item                          | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de<br>antrenare/<br>Driving power | Sens/<br>Revolving<br>sense | Antrenare | X     | Y    | Echivalenta/<br>Equivalence    |
|-------------------------------------|----------------------------------------|------------------------------------------|-----------------------------|-----------|-------|------|--------------------------------|
| PH 05-00D-B                         | 5,5                                    | max 6 kw                                 | orar                        | Con 1 : 5 | 94    | 44   | 0 510 325 006                  |
| PH 113 -00D/18<br>PH 113- 00S/18    | 11                                     | max. 6 kw                                | orar<br>antiorar            | Con 1 : 5 | 103   | 48,5 |                                |
| PH 113 -00D/18M<br>PH 113- 00S/18M  | 11                                     | max. 6 kw                                | orar<br>antiorar            | B17 x 14  | 103   | 55   |                                |
| PH 113 -00D/7<br>PH 113- 00S/7      | 16                                     | max. 6 kw                                | orar<br>antiorar            | Con 1 : 5 | 107,8 | 54,4 | 0 510 525 022<br>0 510 525 315 |
| PH 113 -00D/7 MA<br>PH 113- 00S/7MA | 16                                     | max. 6 kw                                | orar<br>antiorar            | B 17x14   | 107,8 | 54,4 |                                |

The technical drawing consists of three views of a mechanical component:

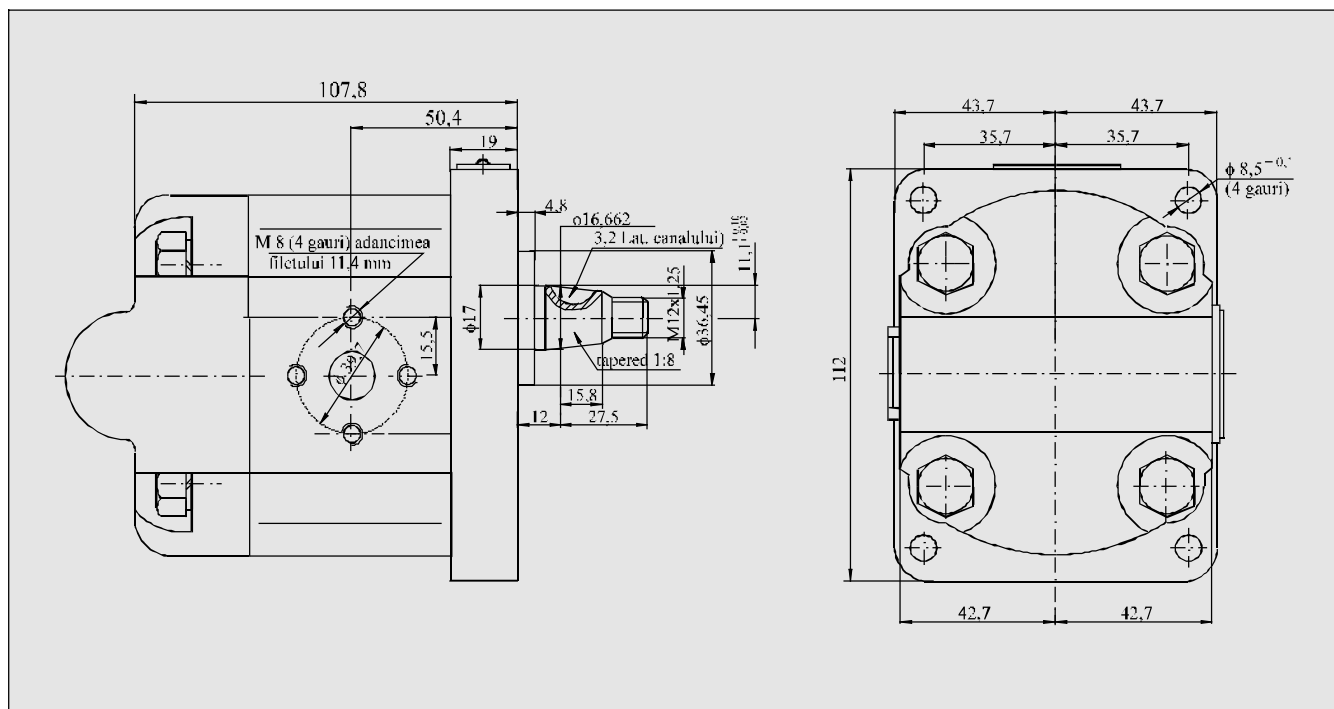
- Front View (Left):** Shows a rectangular base with four mounting holes. Dimensions include overall width X, overall height Y, and specific hole positions. A note indicates "M 8 (4 gauri) adancimea filetului 11,4 mm".
- Side View (Middle):** Shows the profile of the component, highlighting a conical feature with a 1:8 slope. Dimensions include diameters like  $\phi 17$ ,  $\phi 16,662$ , and  $\phi 36,45$ .
- Top View (Right):** Shows the plan view of the component, detailing the central oval shape and the four corner mounting holes. Dimensions include overall width 43,7, overall height 43,7, and hole diameter  $\phi 8,5$ .

Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Gearred pump                                  |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

| Reper/Item                           | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de antrenare/<br>Driving power | Sens/<br>Revolving sense | Antrenare | X     | Y    | Echivalenta/<br>Equivalence |
|--------------------------------------|----------------------------------------|---------------------------------------|--------------------------|-----------|-------|------|-----------------------------|
| PH 113 -00D/6<br>PH 113- 00S/6       | 11                                     | max. 6 kw                             | orar<br>antiorar         | Con 1 : 8 | 98,8  | 50,4 | PRD2-214D<br>PRD2-214S      |
| PH 113 -00D/6MA<br>PH 113- 00S/6MA   | 11                                     | max. 6 kw                             | orar<br>antiorar         | B17x14    | 98,8  | 50,4 |                             |
| PH 113 -00D/15<br>PH 113 -00S/15     | 16                                     | max. 6 kw                             | orar<br>antiorar         | Con 1 : 8 | 107,8 | 54,4 | PRD2-216D<br>PRD2-216S      |
| PH 113 -00D/16<br>PH 113 -00S/16     | 19                                     | max. 6 kw                             | orar<br>antiorar         | Con 1 : 8 | 112,8 | 56,9 | PRD2-217D<br>PRD2-217S      |
| PH 113 -00D/16MA<br>PH 113 -00S/16MA | 19                                     | max. 6 kw                             | orar<br>antiorar         | B17x14    | 112,8 | 56,9 |                             |
| PH 113 -00D/17<br>PH 113 -00S/17     | 22                                     | max. 6 kw                             | orar<br>antiorar         | Con 1 : 8 | 118,8 | 59,9 | PRD2-218D<br>PRD2-218S      |

# **POMPA HIDRAULICA PH 113 - 00 D/6X** **HYDRAULIC PUMP PH 113-00D/6X**



## Caracteristici tehnice:

## Technical characteristics:

|    |                                                  |                                        |                                                  |                                               |
|----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1. | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2. | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3. | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4. | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5. | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6. | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7. | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 8. | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 9. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |

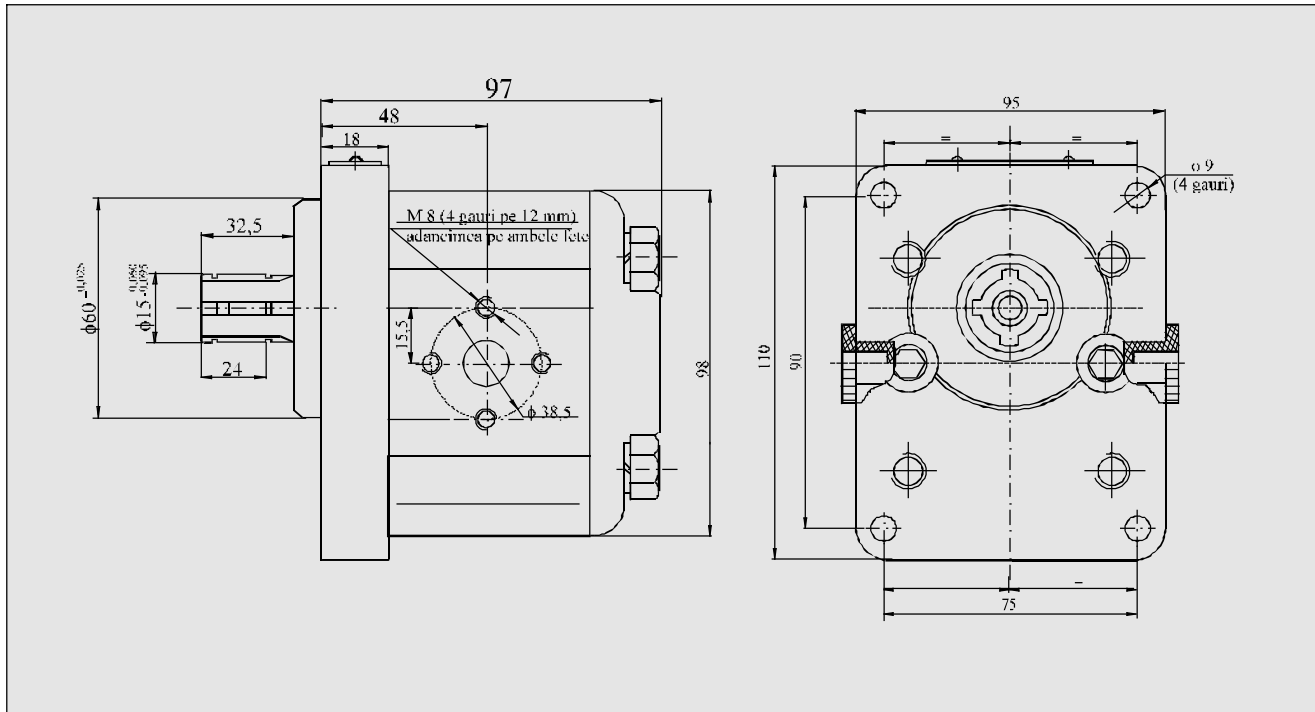
## *presiunea de dascarcare a supapei/Discharge pressure of the relief valve*

|          |    |    |     |     |     |     |     |     |
|----------|----|----|-----|-----|-----|-----|-----|-----|
| X        | 1  | 2  | 3   | 4   | 5   | 6   | 7   | 8   |
| Pd (bar) | 63 | 80 | 100 | 125 | 160 | 180 | 200 | 220 |

**Identic cu PRD 2-224 DX**

# POMPA HIDRAULICA PH 113 - 00 SC

## HYDRAULIC PUMP PH 113-00SC



### Caracteristici tehnice:

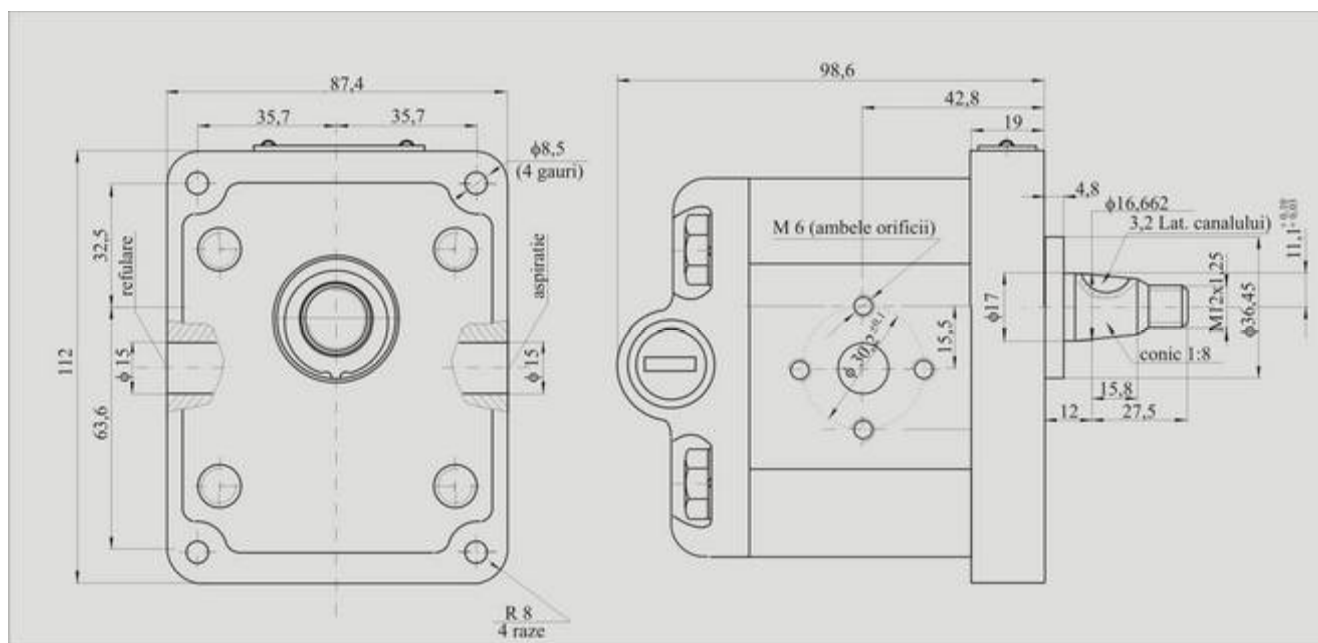
### Technical characteristics:

|     |                           |                                        |                                |                                        |
|-----|---------------------------|----------------------------------------|--------------------------------|----------------------------------------|
| 1.  | Tip constructiv:          | pompa cu roti dintate                  | Constructive type              | Geared pump                            |
| 2.  | Mod fixare:               | flansa si suruburi de fixare           | Fixing mode                    | with flanges and screws                |
| 3.  | Antrenare                 | caneluri 4 x 11 x 15                   | Driving                        | Fluting grooves 4x11x15                |
| 4.  | Temperatura mediu ambiant | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment | -15 <sup>0</sup> ... + 60 <sup>0</sup> |
| 5.  | Nivel zgomot:             | max. 85 dB                             | level of the noise             | max. 85 dB                             |
| 6.  | n min:                    | 800 [rot/min]                          | min. driving shaft speed       | 800 [rot/min]                          |
| 7.  | n max:                    | 3000 [rot/min]                         | Maximum driving shaft speed    | 3000 [rot/min]                         |
| 8.  | n nom:                    | 2200 [rot/min]                         | Nominal driving shaft speed    | 2200 [rot/min]                         |
| 9.  | P nom:                    | 250 [bar]                              | Nominal pressure               | 250 bar                                |
| 10. | P max:                    | 300 [bar]                              | Maximum pressure               | 300 bar                                |



# POMPA HIDRAULICA PH 04-00 S /X

## HYDRAULIC PUMP PH 04-00 S /X



### Caracteristici tehnice:

### Technical characteristics:

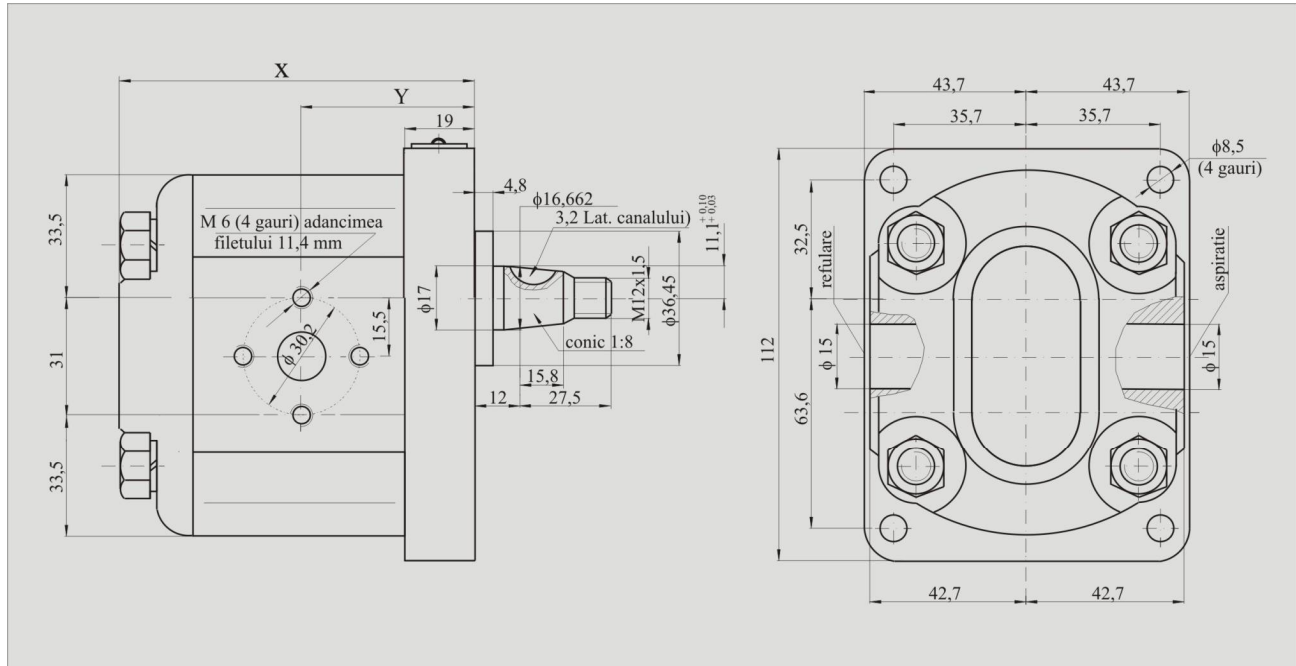
|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|         |    |    |     |     |     |     |     |
|---------|----|----|-----|-----|-----|-----|-----|
| X       | 01 | 02 | 03  | 04  | 05  | 06  | 07  |
| P (bar) | 60 | 80 | 100 | 120 | 140 | 160 | 180 |

Identic cu PRD 2-221 SX

## POMPA HIDRAULICA PH 04 - 00S

### HYDRAULIC PUMP PH 04 - 00S



#### Caracteristici tehnice:

#### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

| Reper/Item | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de<br>antrenare/<br>Driving power | Sens/<br>Revolving<br>sense | Antrenare | X    | Y    | Echivalenta/<br>Equivalence |
|------------|----------------------------------------|------------------------------------------|-----------------------------|-----------|------|------|-----------------------------|
| PH 04 -00D | 4                                      | max. 6 kw                                | orar                        | Con 1 : 8 | 91,6 | 42,8 | PRD2 - 211D                 |
| PH 04 -00S | 4                                      | max. 6 kw                                | antiorar                    | Con 1 : 8 | 91,6 | 42,8 | PRD2 - 211S                 |
| PH 05 -00D | 5,5                                    | max. 6 kw                                | orar                        | Con 1 : 8 | 94,6 | 44,3 | PRD2 - 212D                 |
| PH 05 -00S | 5,5                                    | max. 6 kw                                | antiorar                    | Con 1 : 8 | 94,6 | 44,3 | PRD2 - 212S                 |
| PH 08 -00D | 8                                      | max. 6 kw                                | orar                        | Con 1 : 8 | 97,6 | 45,8 | PRD2 - 213D                 |
| PH 08 -00S | 8                                      | max. 6 kw                                | antiorar                    | Con 1 : 8 | 97,6 | 45,8 | PRD2 - 213S                 |

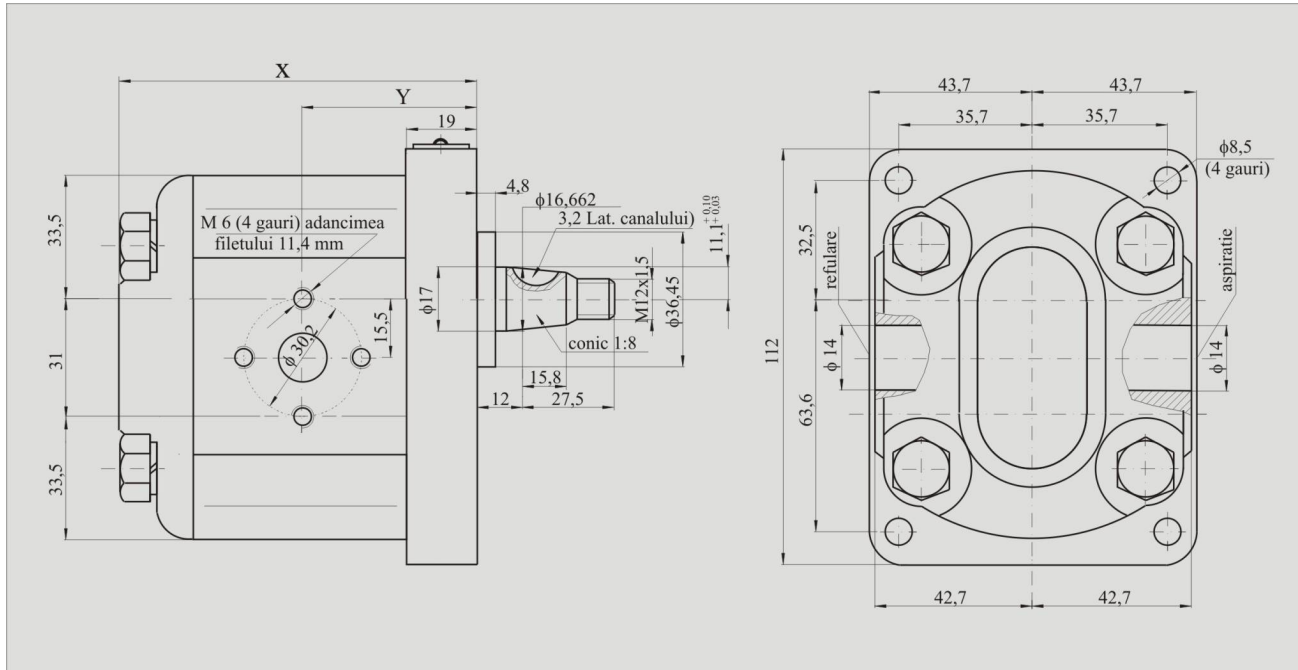
*Technical characteristics:*

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

| Reper/Item       | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de<br>antrenare/<br>Driving<br>power | Sens/<br>Revolving<br>sense | Antrenare | X     | Y  | Z  | Echivalenta/<br>Equivalence |
|------------------|----------------------------------------|---------------------------------------------|-----------------------------|-----------|-------|----|----|-----------------------------|
| PH 113 -00D/8    | 11                                     | max. 6 kw                                   | orar                        | Con 1 : 8 | 95    | 45 | 15 |                             |
| PH 113 -00S/8    | 11                                     | max. 6 kw                                   | antiorar                    | Con 1 : 8 | 95    | 45 | 15 |                             |
| PH 113 -00D/8MA  | 11                                     | max. 6 kw                                   | orar                        | B 17x14   | 95    | 45 | 15 |                             |
| PH 113 -00S/8MA  | 11                                     | max. 6 kw                                   | antiorar                    | B 17x14   | 95    | 45 | 15 |                             |
| PH 113 -00D/9    | 16                                     | max. 6 kw                                   | orar                        | Con 1 : 8 | 103,5 | 50 | 15 |                             |
| PH 113 -00S/9    | 16                                     | max. 6 kw                                   | antiorar                    | Con 1 : 8 | 103,5 | 50 | 15 |                             |
| PH 113 -00D/9-MA | 16                                     | max. 6 kw                                   | orar                        | B 17 x 14 | 107,5 | 54 | 19 | 0510625039                  |
| PH 113 -00S/9-MA | 16                                     | max. 6 kw                                   | antiorar                    | B 17 x 14 | 107,5 | 54 | 19 | 0510625327<br>(Lamborghini) |
| PH 113-00D/27 MA | 26                                     | max. 6 kw                                   | orar                        | B 17 x 14 | 124   | 62 | 19 |                             |

# POMPA HIDRAULICA PH 113 - 00 D/10 ; /11

## HYDRAULIC PUMP PH 113-00 D /10 ; /11



### Caracteristici tehnice:

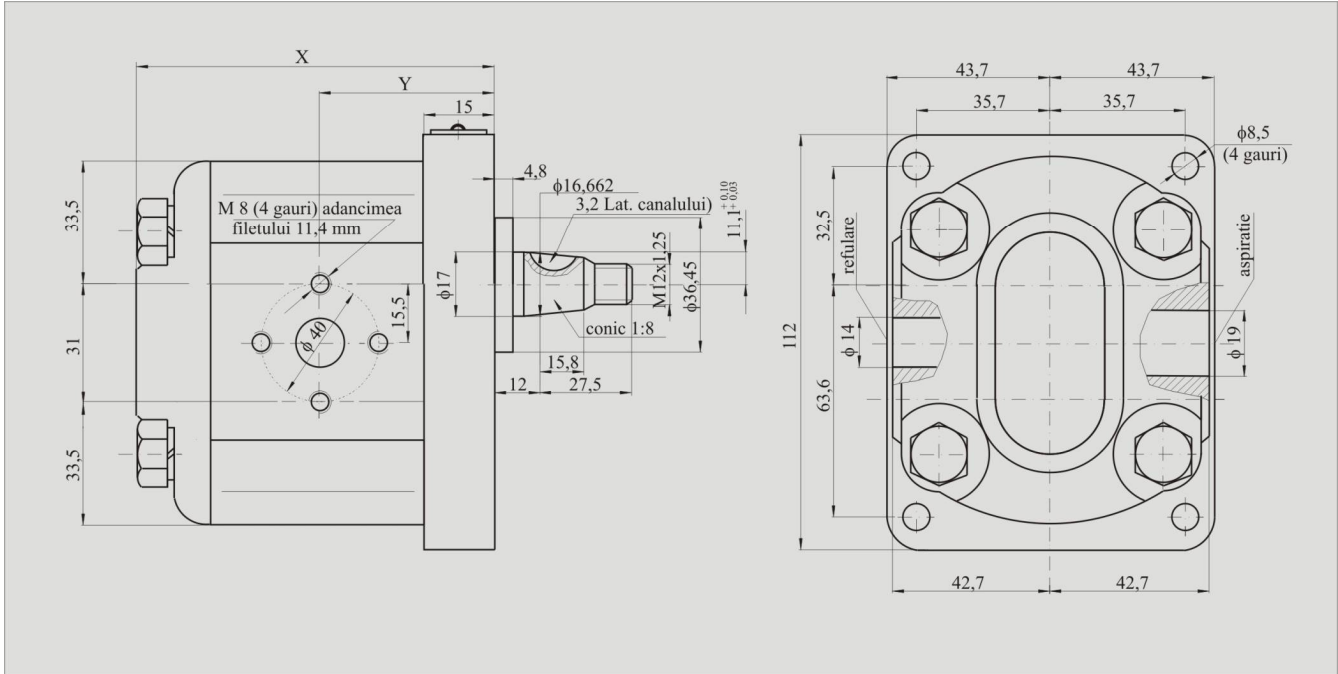
### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

| Reper/Item     | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de antrenare/<br>Driving power | Sens/<br>Revolving sense | Antrenare | X     | Y    | Echivalenta/<br>Equivalence |
|----------------|----------------------------------------|---------------------------------------|--------------------------|-----------|-------|------|-----------------------------|
| PH 113 -00D/10 | 11                                     | max. 6 kw                             | orar                     | Con 1 : 8 | 98,8  | 50,4 |                             |
| PH 113 -00S/10 | 11                                     | max. 6 kw                             | antiorar                 | Con 1 : 8 | 98,8  | 50,4 |                             |
| PH 113 -00D/11 | 16                                     | max. 6 kw                             | orar                     | Con 1 : 8 | 107,8 | 54,4 |                             |
| PH 113 -00S/11 | 16                                     | max. 6 kw                             | antiorar                 | Con 1 : 8 | 107,8 | 54,4 |                             |

# POMPA HIDRAULICA PH 113 - 00 D/12

## HYDRAULIC PUMP PH 113-00 D /12



### Caracteristici tehnice:

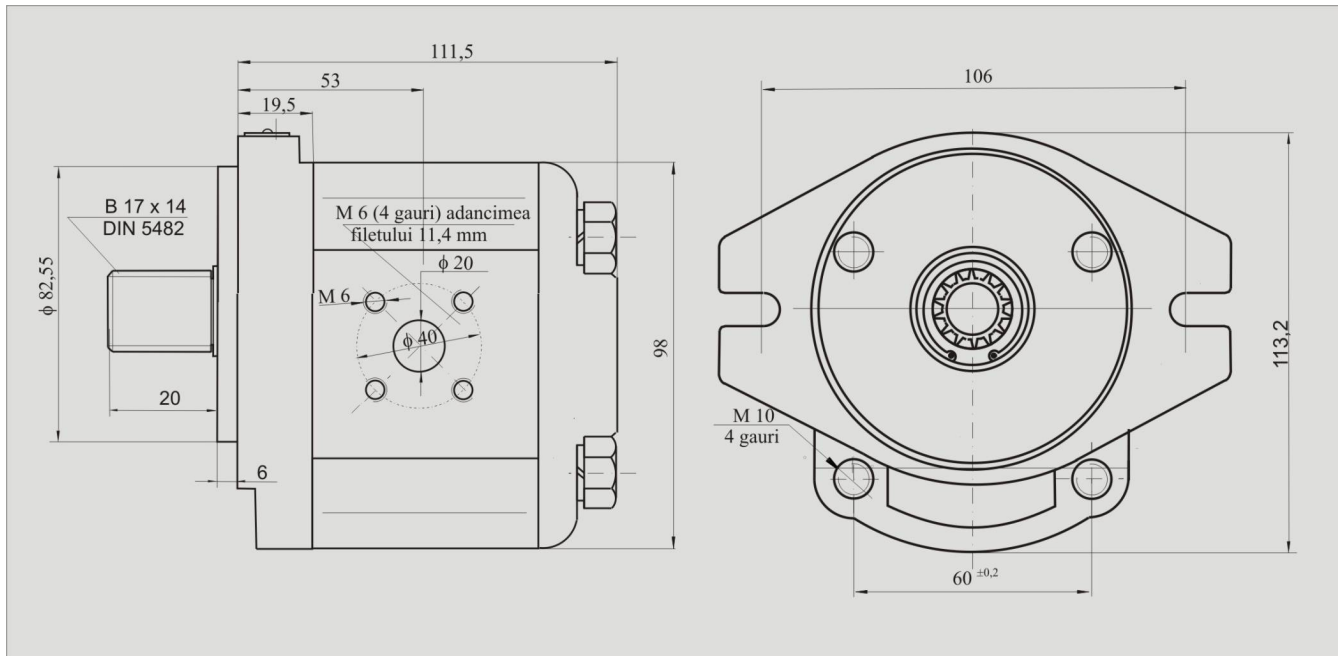
### Technical characteristics:

|     |                                                  |                               |                                                  |                                               |
|-----|--------------------------------------------------|-------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roți dinate          | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa și suruburi de fixare  | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii) | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 ° ... + 60 °              | Temperature of the environment                   | -15 ° ... + 60 °                              |
| 5.  | Nivel zgomot:                                    | max. 85 dB                    | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                     | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50° - 80° C                   | Oil temperature                                  | 50° - 80° C                                   |
| 8.  | n min:                                           | 800 [rot/min]                 | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                       | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                       | Maximum pressure                                 | 300 bar                                       |

| Reper/Item     | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de antrenare/<br>Driving power | Sens/<br>Revolving sense | Antrenare | X     | Y    | Echivalenta/<br>Equivalence |
|----------------|----------------------------------------|---------------------------------------|--------------------------|-----------|-------|------|-----------------------------|
| PH 113 -00D/12 | 16                                     | max. 6 kw                             | orar                     | Con 1 : 8 | 107,8 | 54,4 |                             |
| PH 113 -00S/12 | 16                                     | max. 6 kw                             | antiorar                 | Con 1 : 8 | 107,8 | 54,4 |                             |

# POMPA HIDRAULICA PH 113 - 00 S/13

## HYDRAULIC PUMP PH 113-00 S /13



### Caracteristici tehnice:

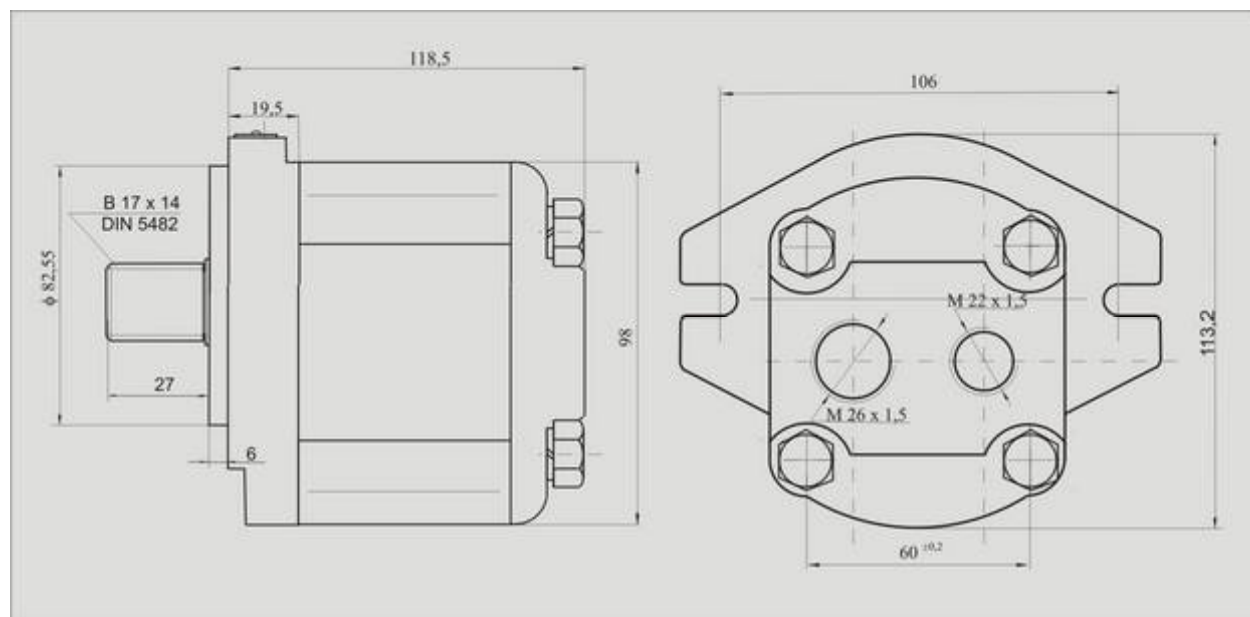
### Technical characteristics:

|     |                                                  |                                                    |                                                  |                                                         |
|-----|--------------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                              | Constructive type                                | Geared pump                                             |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare                       | Fixing mode                                      | with flanges and screws                                 |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)<br>B17 x 14 DIN 5482 | Driving                                          | cone 1:5 ; 1:8; B17 x 14 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup>             | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>                  |
| 5.  | Nivel zgomot:                                    | max. 85 dB                                         | level of the noise                               | max. 85 dB                                              |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                                          | Suction depression for the initial work starting | 150 mm Hg                                               |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C                | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C                     |
| 8.  | n min:                                           | 800 [rot/min]                                      | min. driving shaft speed                         | 800 [rot/min]                                           |
| 9.  | n max:                                           | 3000 [rot/min]                                     | Maximum driving shaft speed                      | 3000 [rot/min]                                          |
| 10. | n nom:                                           | 2200 [rot/min]                                     | Nominal driving shaft speed                      | 2200 [rot/min]                                          |
| 11. | P nom.                                           | 250 bar                                            | Nominal pressure                                 | 250 bar                                                 |
| 12. | P max:                                           | 300 bar                                            | Maximum pressure                                 | 300 bar                                                 |

| Reper/Item     | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de antrenare/<br>Driving power | Sens/<br>Revolving sense | Antrenare | X     | Y  | Echivalenta/<br>Equivalence |
|----------------|----------------------------------------|---------------------------------------|--------------------------|-----------|-------|----|-----------------------------|
| PH 113 -00D/13 | 16                                     | max. 6 kw                             | orar                     | B 17 x 14 | 111,5 | 53 |                             |
| PH 113 -00S/13 | 16                                     | max. 6 kw                             | antiorar                 | B 17 x 14 | 111,5 | 53 |                             |

# POMPA HIDRAULICA PH 113 - 00 S/19-MA

## HYDRAULIC PUMP PH 113-00 S /19-MA



### Caracteristici tehnice:

### Technical characteristics:

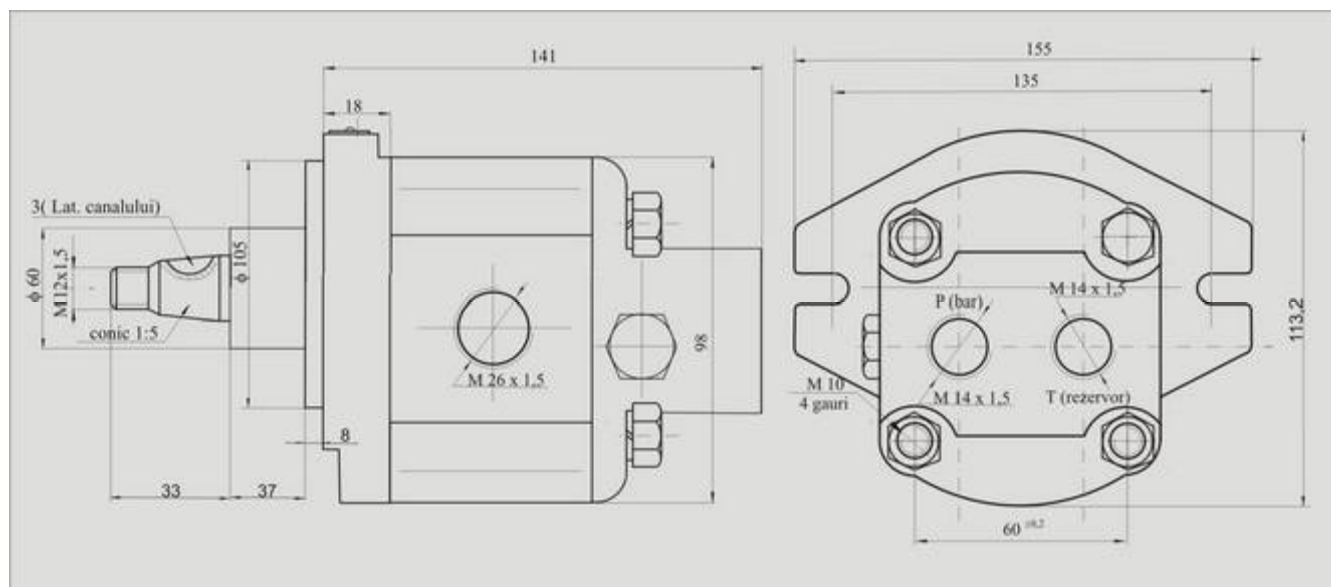
|     |                                                     |                                                              |                                                     |                                                                             |
|-----|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------|
| 1.  | Tip constructiv:                                    | pompa cu roti dintate                                        | Constructive type                                   | Geared pump                                                                 |
| 2.  | Mod fixare:                                         | flansa si suruburi de fixare                                 | Fixing mode                                         | with flanges and screws                                                     |
| 3.  | Antrenare                                           | con 1:5 ; 1:8 (conf comenzii)<br>canelura B 17 x 14 DIN 5482 | Driving                                             | cone 1:5 ; 1:8 (in accordance<br>with the order)<br>Slot B 17 x 14 DIN 5482 |
| 4.  | Temperatura mediu ambiant                           | -15 <sup>0</sup> ... + 60 <sup>0</sup>                       | Temperature of the<br>environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>                                      |
| 5.  | Nivel zgomot:                                       | max. 85 dB                                                   | level of the noise                                  | max. 85 dB                                                                  |
| 6.  | Depresiune de aspiratie pentru<br>amorsarea pompei: | 150 mm Hg                                                    | Suction depression for<br>the initial work starting | 150 mm Hg                                                                   |
| 7.  | Temperatura uleiului:                               | 50 <sup>0</sup> - 80 <sup>0</sup> C                          | Oil temperature                                     | 50 <sup>0</sup> - 80 <sup>0</sup> C                                         |
| 8.  | n min:                                              | 800 [rot/min]                                                | min. driving shaft speed                            | 800 [rot/min]                                                               |
| 9.  | n max:                                              | 3000 [rot/min]                                               | Maximum driving shaft<br>speed                      | 3000 [rot/min]                                                              |
| 10. | n nom:                                              | 2200 [rot/min]                                               | Nominal driving shaft<br>speed                      | 2200 [rot/min]                                                              |
| 11. | P nom.                                              | 250 bar                                                      | Nominal pressure                                    | 250 bar                                                                     |
| 12. | P max:                                              | 300 bar                                                      | Maximum pressure                                    | 300 bar                                                                     |

| Reper/Item        | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de<br>antrenare/<br>Driving power | Sens/<br>Revolving<br>sense | Antrenare | Echivalenta/<br>Equivalence |
|-------------------|----------------------------------------|------------------------------------------|-----------------------------|-----------|-----------------------------|
| PH 113 -00D/19-MA | 16                                     | max. 6 kw                                | orar                        | B 17 x 14 |                             |
| PH 113 -00S/19-MA | 16                                     | max. 6 kw                                | antiorar                    | B 17 x 14 |                             |



# POMPA HIDRAULICA PH 113 - 00 S/23-XY

## HYDRAULIC PUMP PH 113-00 S /23-XY



### Caracteristici tehnice:

### Technical characteristics:

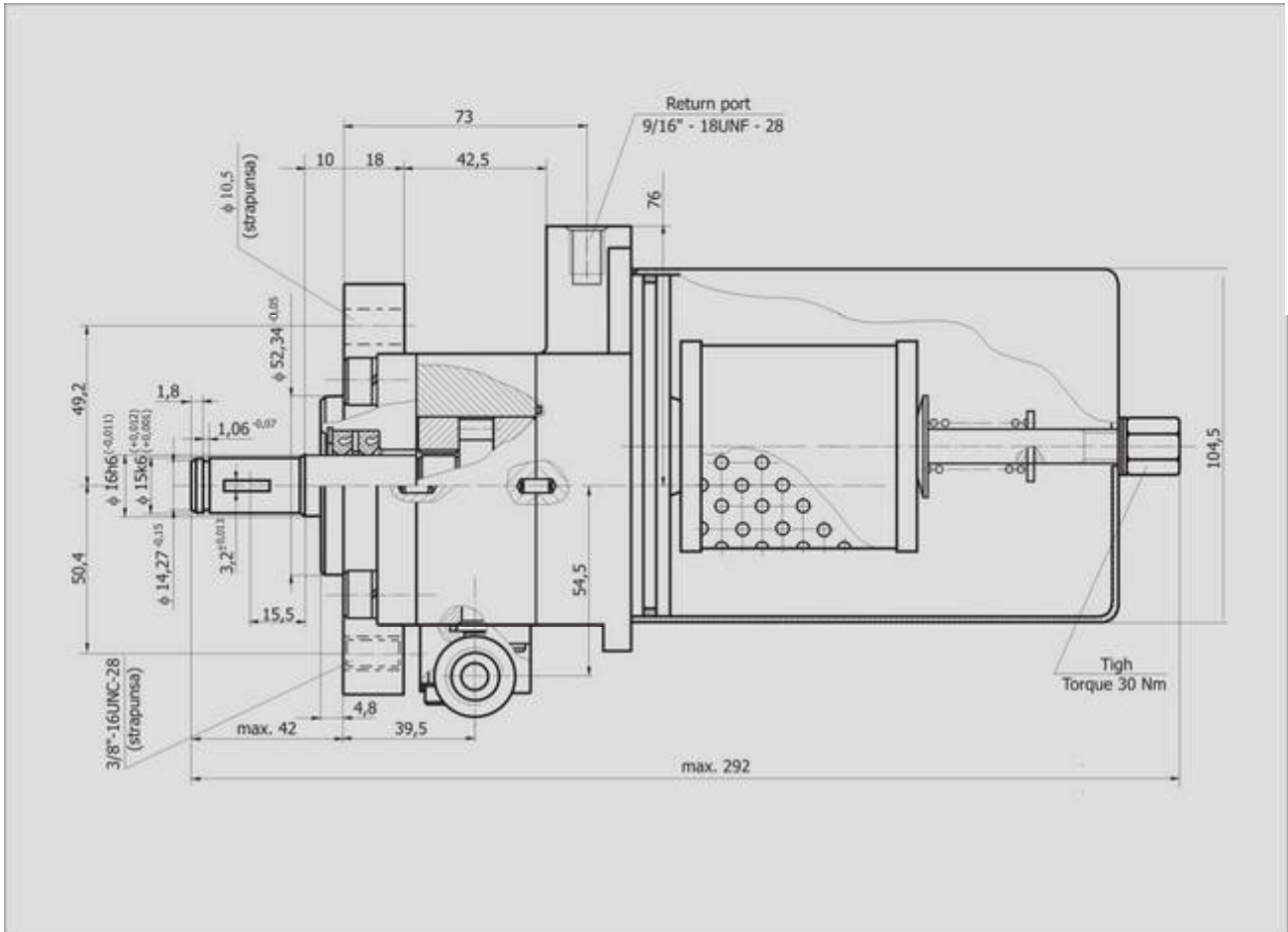
|     |                                                     |                                                              |                                                     |                                                                             |
|-----|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------|
| 1.  | Tip constructiv:                                    | pompa cu roti dintate                                        | Constructive type                                   | Geared pump                                                                 |
| 2.  | Mod fixare:                                         | flansa si suruburi de fixare                                 | Fixing mode                                         | with flanges and screws                                                     |
| 3.  | Antrenare                                           | con 1:5 ; 1:8 (conf comenzii)<br>canelura B 17 x 14 DIN 5482 | Driving                                             | cone 1:5 ; 1:8 (in accordance<br>with the order)<br>Slot B 17 x 14 DIN 5482 |
| 4.  | Temperatura mediu ambiant                           | -15 <sup>0</sup> ... + 60 <sup>0</sup>                       | Temperature of the<br>environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>                                      |
| 5.  | Nivel zgomot:                                       | max. 85 dB                                                   | level of the noise                                  | max. 85 dB                                                                  |
| 6.  | Depresiune de aspiratie pentru<br>amorsarea pompei: | 150 mm Hg                                                    | Suction depression for<br>the initial work starting | 150 mm Hg                                                                   |
| 7.  | Temperatura uleiului:                               | 50 <sup>0</sup> - 80 <sup>0</sup> C                          | Oil temperature                                     | 50 <sup>0</sup> - 80 <sup>0</sup> C                                         |
| 8.  | n min:                                              | 800 [rot/min]                                                | min. driving shaft speed                            | 800 [rot/min]                                                               |
| 9.  | n max:                                              | 3000 [rot/min]                                               | Maximum driving shaft<br>speed                      | 3000 [rot/min]                                                              |
| 10. | n nom:                                              | 2200 [rot/min]                                               | Nominal driving shaft<br>speed                      | 2200 [rot/min]                                                              |
| 11. | P nom.                                              | 250 bar                                                      | Nominal pressure                                    | 250 bar                                                                     |
| 12. | P max:                                              | 300 bar                                                      | Maximum pressure                                    | 300 bar                                                                     |

| Reper/Item        | Debit/Output<br>q cm <sup>3</sup> /rot | Putere de<br>antrenare/<br>Driving power | Sens/<br>Revolving<br>sense | Antrenare | Regulator    |            |
|-------------------|----------------------------------------|------------------------------------------|-----------------------------|-----------|--------------|------------|
|                   |                                        |                                          |                             |           | q<br>(l/min) | p<br>(bar) |
| PH 113 -00D/23-XY | 14                                     | max. 6 kw                                | orar                        | con 1:5   | 10           | 90         |
| PH 113 -00S/23-XY | 14                                     | max. 6 kw                                | antiorar                    | con 1:5   | 10           | 90         |

**Utilizare: inlocuieste pompa servodirectie troleibuze**



**POMPA HIDRAULICA ASAMBLATA PHEF 07-00S**  
**HYDRAULIC PUMP PHEF 07-00S**  
**Reper original 897147 M94**



## Caracteristici tehnice

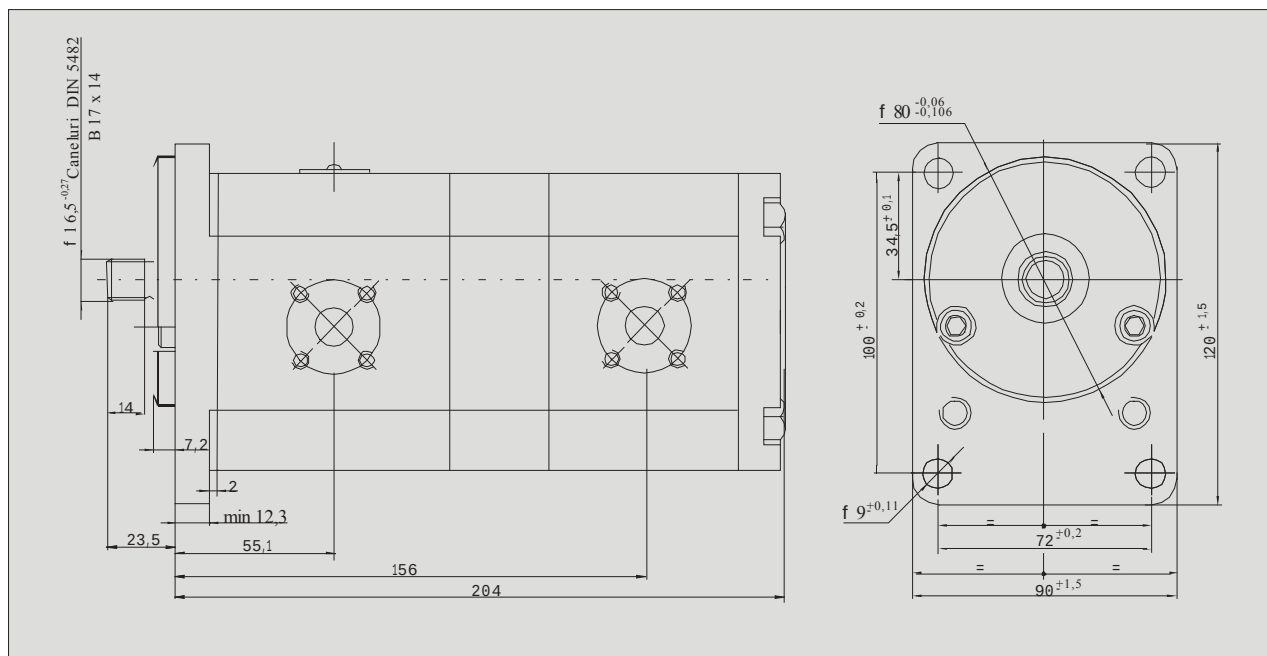
| Displacement<br>cm <sup>3</sup> /devir(rev.) | Max. press<br>p (bar) | n = 1500(rev/min)<br>Q-Flow (l/min) | Valve press<br>p (bar) |
|----------------------------------------------|-----------------------|-------------------------------------|------------------------|
| 6                                            | 210                   | 8,5                                 | 100 <sup>±5</sup>      |

Produsul HIDROJET S.a. - reper: PHEF 07-00S este similar cu produsele reper:  
1P2-113 A fabricat de HEMA HIDROLIC TURCIA  
A6XF fabricat de INDUSTRIAL TECHNIC S.C.-BULGARIA  
3115.370.93/1 (897147 M94) fabricat in SERBIA

## Utilizarea finala – **Tractor MF 285**

# POMPA HIDRAULICA PH 22.10 - 00 D-Z

## HYDRAULIC PUMP PH 22.10 - 00 D-Z



### Caracteristici tehnice:

### Technical characteristics:

|     |                                                  |                                        |                                                  |                                        |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|----------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                            |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                |
| 3.  | Antrenare                                        | B 17x14 DIN 5482                       | Driving                                          | B 17x14 DIN 5482                       |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup> |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                             |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                              |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C    |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                          |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                         |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                         |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) | t <sup>0</sup> C |
|--------|---------|--------------------------|-------------|-------------|------------------|
| Tr. I  | dreapta | 22                       | 2200        | 250         | 80 <sup>0</sup>  |
| Tr. II | dreapta | 10                       | 2200        | 250         | 80 <sup>0</sup>  |

#### **Varianta constructiva**

Se comanda sub reperul **PH 22.10-00S-Z**

Sens de rotire privit dinspre antrenare: antiorar

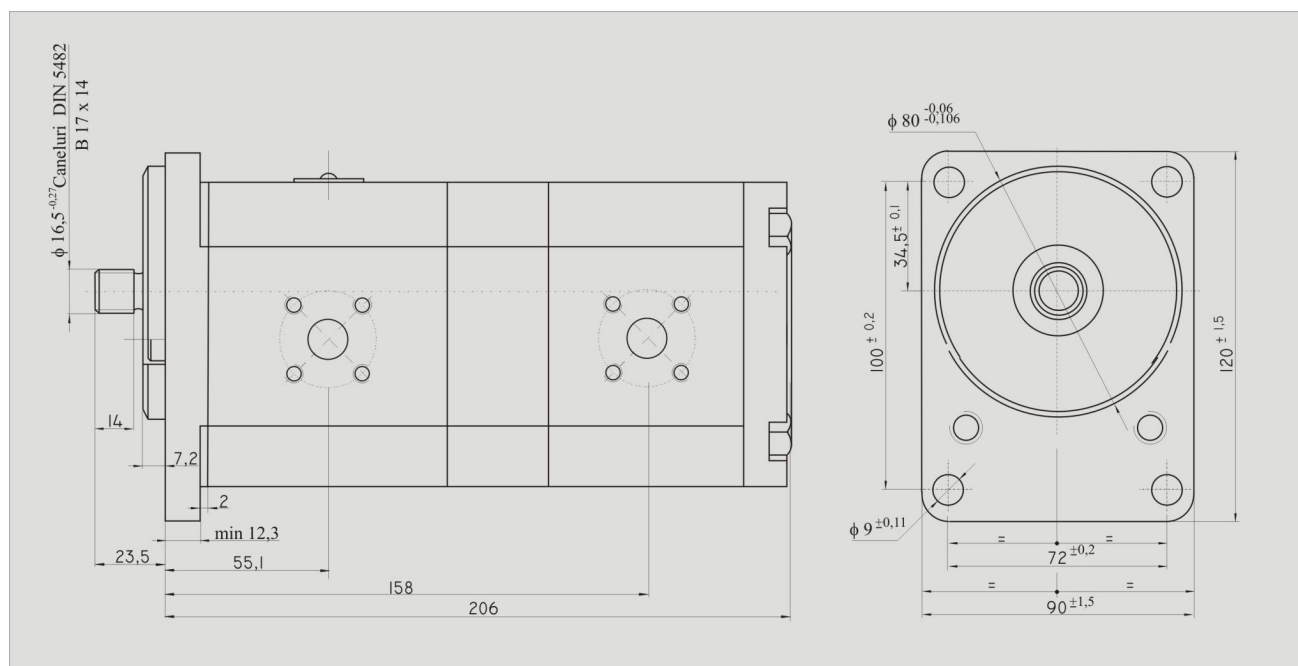
#### **Constructive variant**

To be ordered under part no **PH 22.10-00S-Z**

Revolving sense, looking from drive side:  
anti – clockwise

# POMPA HIDRAULICA PH 22.11 -00 D - Z

## HYDRAULIC PUMP PH 22.11 -00 D - Z



### Caracteristici tehnice:

### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) | t <sup>0</sup> C |
|--------|---------|--------------------------|-------------|-------------|------------------|
| Tr. I  | dreapta | 22                       | 2200        | 250         | 80 <sup>0</sup>  |
| Tr. II | dreapta | 11                       | 2200        | 250         | 80 <sup>0</sup>  |

#### **Varianta constructiva**

Se comanda sub reperul **PH 22.11-00S-Z**

#### **Constructive variant**

To be ordered under part no **PH 22.11-00S-Z**

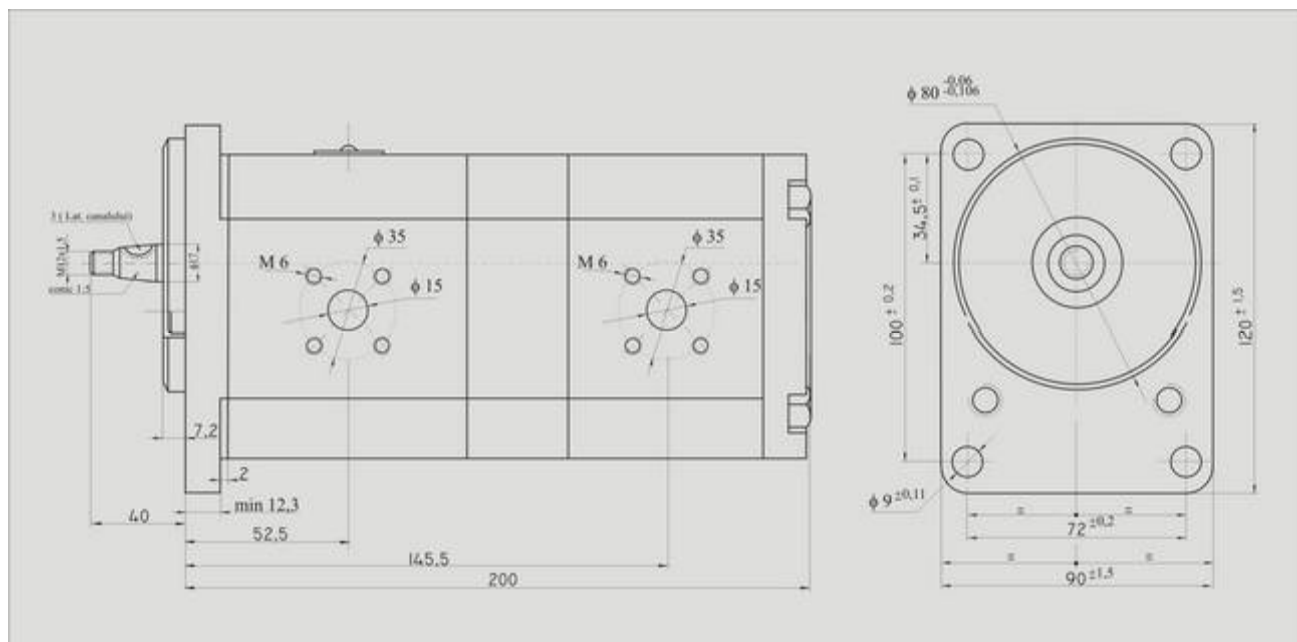
Sens de rotire privit dinspre antrenare: antiorar

Revolving sense, looking from drive side:  
anti – clockwis

**Echivalent cu PRD 22-3184S**

# POMPA HIDRAULICA PH 16.11 -00 D - Z

## HYDRAULIC PUMP PH 16.11 -00 D - Z



### Caracteristici tehnice:

### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) |  |
|--------|---------|--------------------------|-------------|-------------|--|
| Tr. I  | dreapta | 16                       | 2200        | 250         |  |
| Tr. II | dreapta | 11                       | 2200        | 250         |  |

#### **Varianta constructiva**

Se comanda sub reperul **PH16.11-00S-Z**

Sens de rotire privit dinspre antrenare: antiorar

#### **Constructive variant**

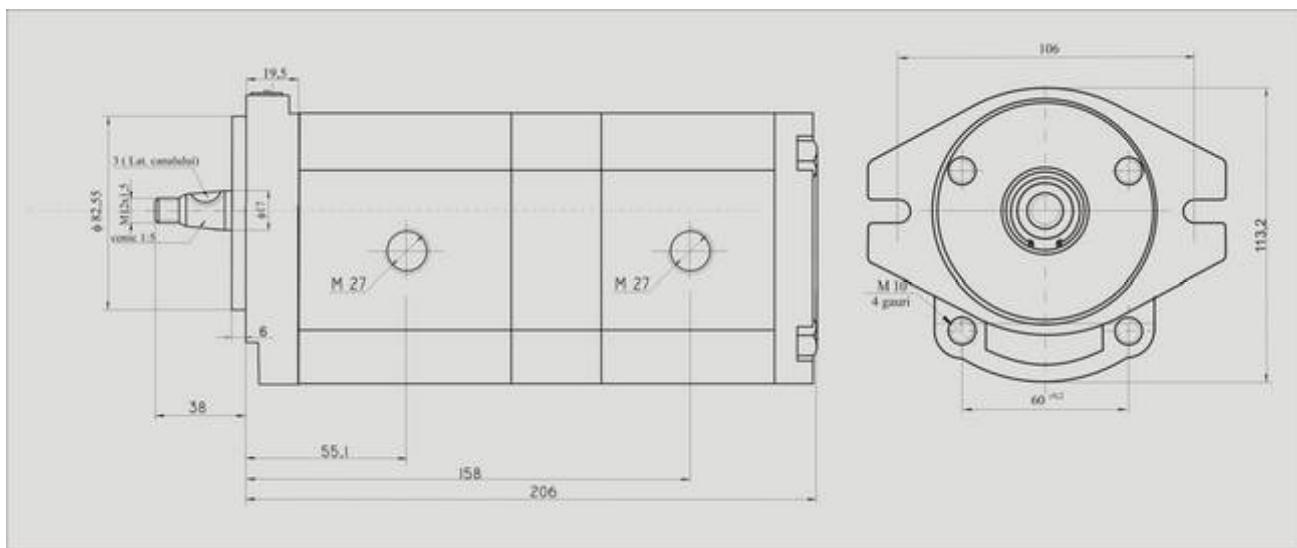
To be ordered under part no **PH 16.11-00S-Z**

Revolving sense, looking from drive side:  
anti – clockwis

**Echivalent cu PRD 22-1164 D**

# POMPA HIDRAULICA PH 22.11 -00 S - ZM

## HYDRAULIC PUMP PH 22.11 -00 S - ZM



### Caracteristici tehnice:

### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) | t <sup>0</sup> C |
|--------|---------|--------------------------|-------------|-------------|------------------|
| Tr. I  | dreapta | 22                       | 2200        | 250         | 80 <sup>0</sup>  |
| Tr. II | dreapta | 11                       | 2200        | 250         | 80 <sup>0</sup>  |

#### **Varianta constructiva**

Se comanda sub reperul **PH 22.11-00D-ZM**

Sens de rotire privit dinspre antrenare: antiorar

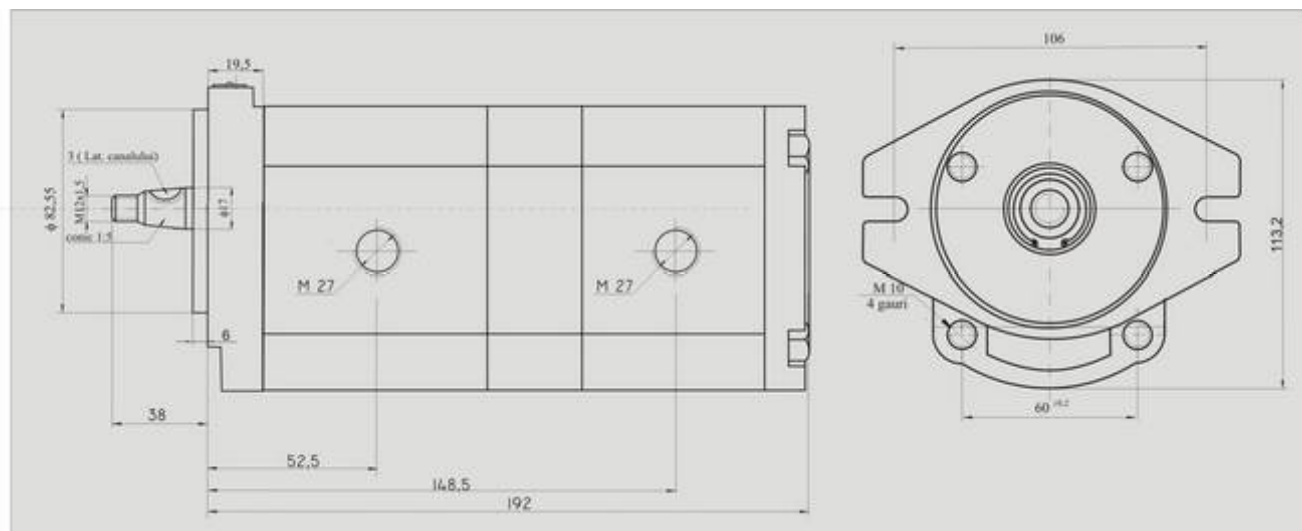
#### **Constructive variant**

To be ordered under part no **PH 22.11-00D-ZM**

Revolving sense, looking from drive side:  
anti – clockwis

# POMPA HIDRAULICA PH 16.05 -00 S - ZM

## HYDRAULIC PUMP PH 16.05 -00 S - ZM



### Caracteristici tehnice:

### Technical characteristics

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) | t <sup>0</sup> C |
|--------|---------|--------------------------|-------------|-------------|------------------|
| Tr. I  | dreapta | 16                       | 2200        | 250         | 80 <sup>0</sup>  |
| Tr. II | dreapta | 5                        | 2200        | 250         | 80 <sup>0</sup>  |

#### **Varianta constructiva**

Se comanda sub reperul **PH 16.05-00D-ZM**

Sens de rotire privit dinspre antrenare: antiorar

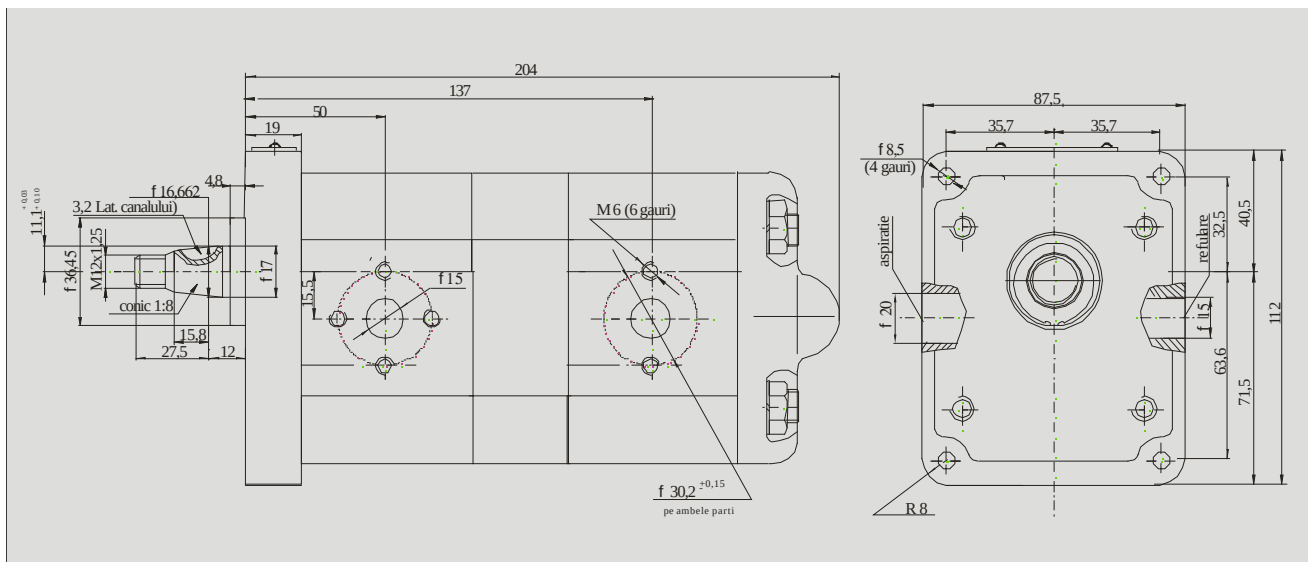
#### **Constructive variant**

To be ordered under part no **PH 16.05-00D-ZM**

Revolving sense, looking from drive side:  
anti – clockwis

# POMPA HIDRAULICA PHS 031-C1S<sub>1</sub>/X-Z

## HYDRAULIC PUMP PHS 031-C1S<sub>1</sub>/X-Z

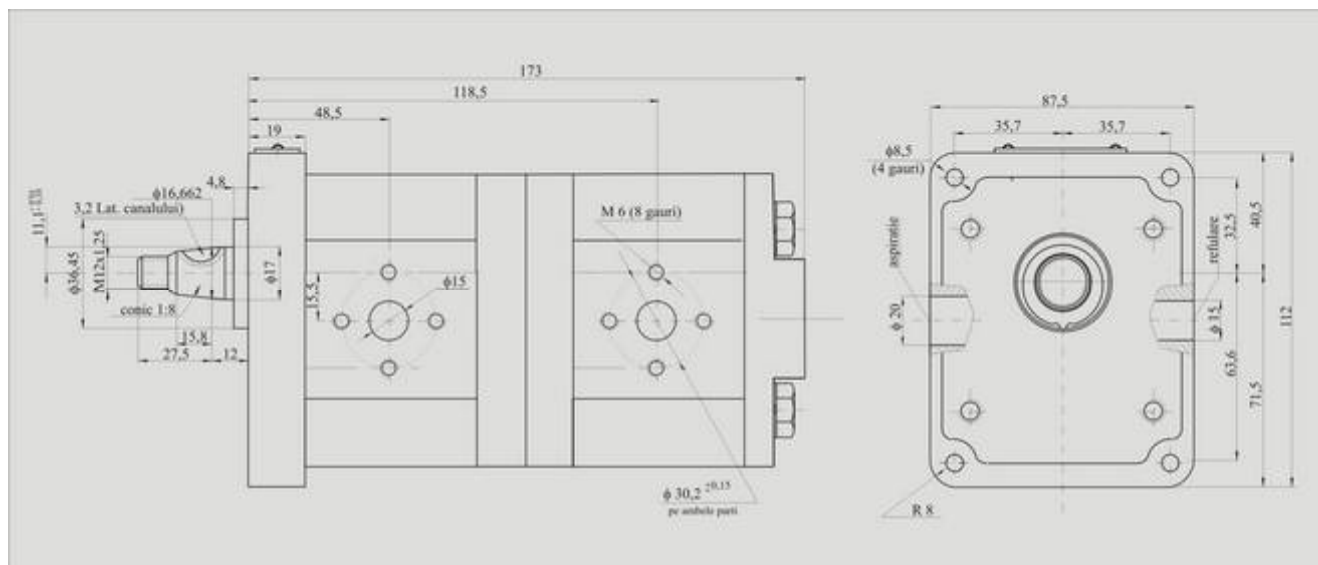


### Caracteristici tehnice:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P max (bar) | P nom (bar) |    |     |
|--------|---------|--------------------------|-------------|-------------|-------------|----|-----|
| Tr. I  | dreapta | 11                       | 2200        | 300         | 250         |    |     |
| Tr. II | dreapta | 4                        | 2200        | 300         | X (bar)     |    |     |
|        |         |                          |             |             | 10          | 20 | 40  |
|        |         |                          |             |             | 63          | 80 | 125 |

**POMPA HIDRAULICA PH 11.11-00 D-Z**  
**HYDRAULIC PUMP PH 11.11-00 D-Z**



*Caracteristici tehnice:*

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

*Technical characteristics:*

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P max (bar) | P nom (bar) |
|--------|---------|--------------------------|-------------|-------------|-------------|
| Tr. I  | dreapta | 1 l                      | 2200        | 300         | 250         |
| Tr. II | dreapta | 1 l                      | 2200        | 300         | 250         |

### Variantă constructivă

Se comanda sub reperul **PH 11.11-00S-Z**

Sens de rotire privit dinspre antrenare: antiorar

### Constructive variant

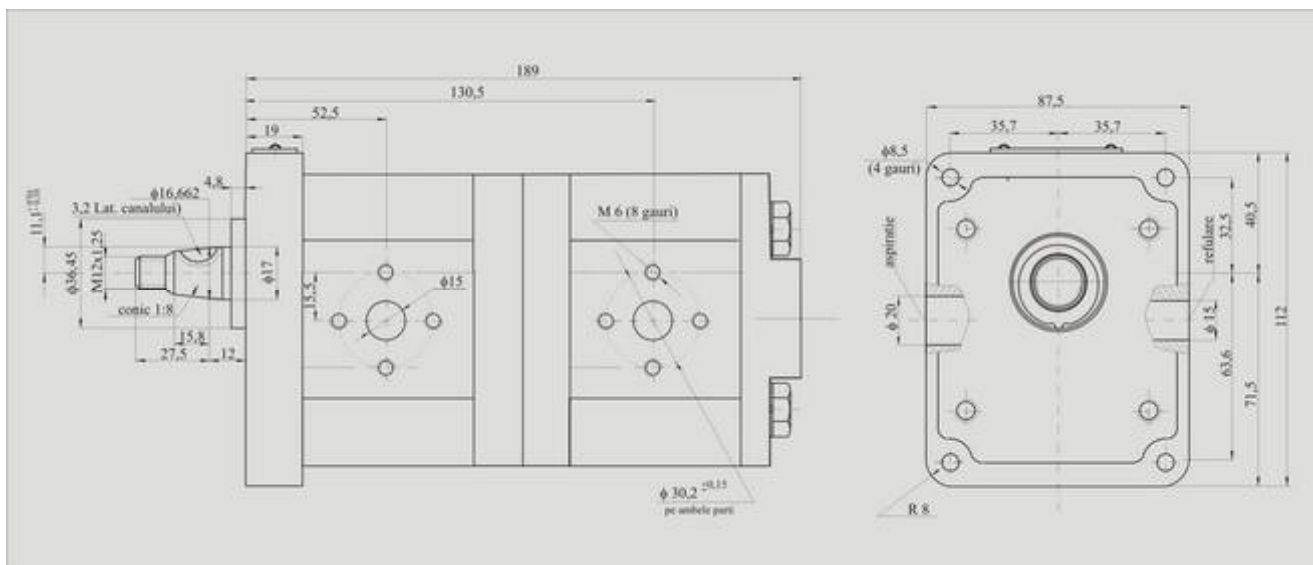
To be ordered under part no **PH 11.11-00S-Z**

Revolving sense, looking from drive side:  
anti – clockwis



# POMPA HIDRAULICA PH 16.16-00 D-Z

## HYDRAULIC PUMP PH 16.16-00 D-Z



### Caracteristici tehnice:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roți dinate                   | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P max (bar) | P nom (bar) |
|--------|---------|--------------------------|-------------|-------------|-------------|
| Tr. I  | dreapta | 16                       | 2200        | 300         | 250         |
| Tr. II | dreapta | 16                       | 2200        | 300         | 250         |

### Varianta constructiva

Se comanda sub reperul **PH 16.16-00S-Z**

Sens de rotire privit dinspre antrenare: antiorar

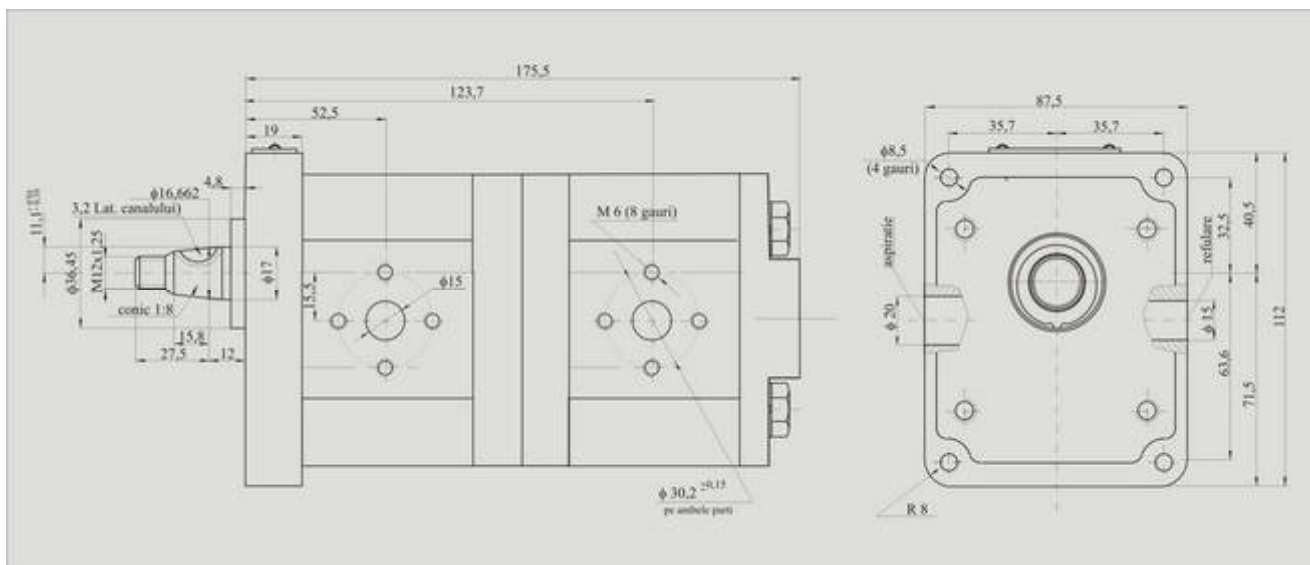
### Constructive variant

To be ordered under part no **PH 16.16-00S-Z**

Revolving sense, looking from drive side:  
anti – clockwis

# POMPA HIDRAULICA PH 16.08-00 D-Z

## HYDRAULIC PUMP PH 16.08-00 D-Z



### Caracteristici tehnice:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roți dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | g (cm <sup>3</sup> /rot) | n (rot/min) | P max (bar) | P nom (bar) |
|--------|---------|--------------------------|-------------|-------------|-------------|
| Tr. I  | dreapta | 16                       | 2200        | 300         | 250         |
| Tr. II | dreapta | 8                        | 2200        | 300         | 250         |

### Varianta constructiva

Se comanda sub reperul **PH 16.08-00S-Z**

Sens de rotire privit dinspre antrenare: antiorar

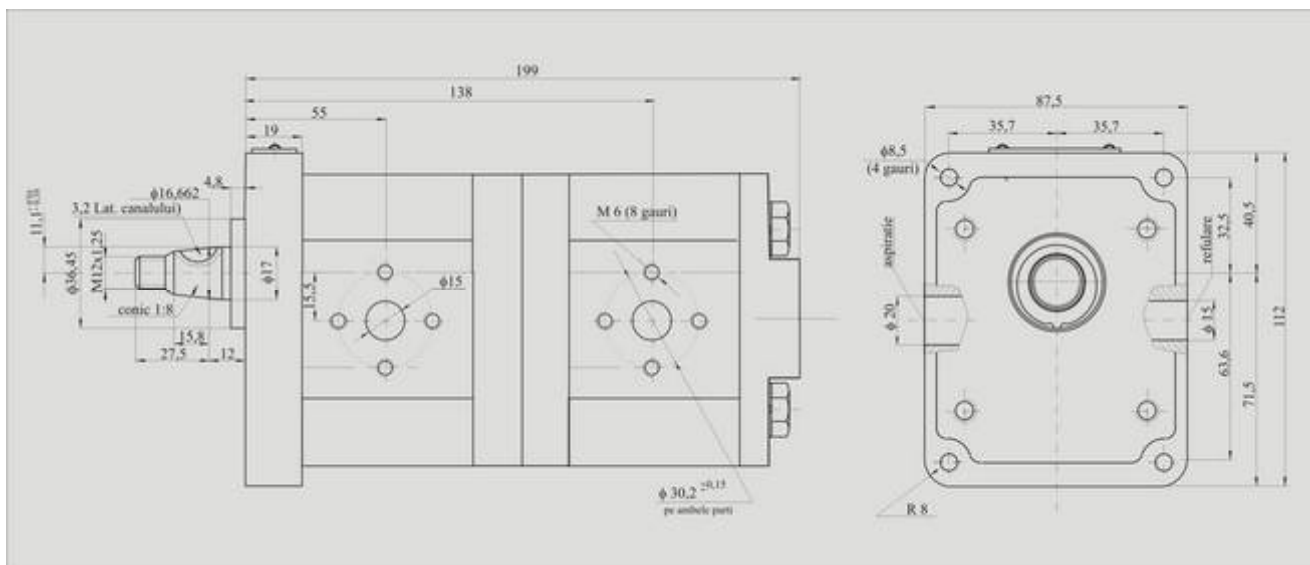
### Constructive variant

To be ordered under part no **PH 16.08-00S-Z**

Revolving sense, looking from drive side:  
anti – clockwis

# POMPA HIDRAULICA PH 19.19-00 D-Z

## HYDRAULIC PUMP PH 19.19-00 D-Z



### Caracteristici tehnice:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roți dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | g (cm <sup>3</sup> /rot) | n (rot/min) | P max (bar) | P nom (bar) |
|--------|---------|--------------------------|-------------|-------------|-------------|
| Tr. I  | dreapta | 19                       | 2200        | 300         | 250         |
| Tr. II | dreapta | 19                       | 2200        | 300         | 250         |

### Varianta constructiva

Se comanda sub reperul **PH 19.19-00S-Z**

Sens de rotire privit dinspre antrenare: antiorar

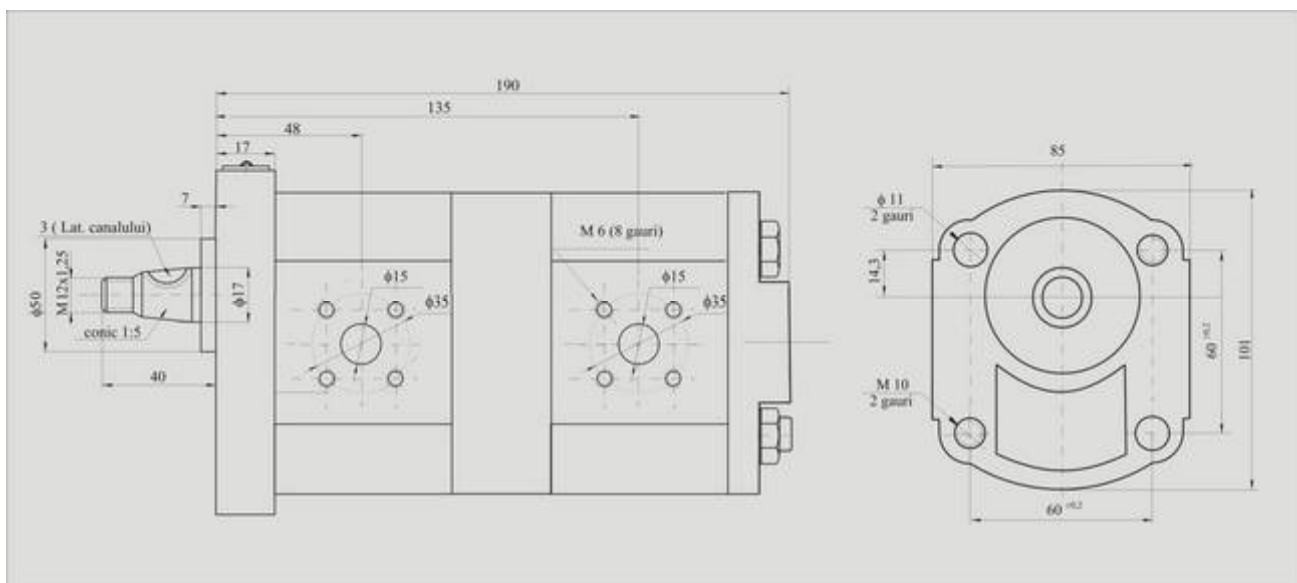
### Constructive variant

To be ordered under part no **PH 19.19-00S-Z**

Revolving sense, looking from drive side:  
anti – clockwis

# POMPA HIDRAULICA PH 11.04-00D - ZB

## HYDRAULIC PUMP PH 11.04-00D - ZB



### Caracteristici tehnice:

### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roți dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) | t <sup>0</sup> C |
|--------|---------|--------------------------|-------------|-------------|------------------|
| Tr. I  | dreapta | 11                       | 2200        | 250         | 80 <sup>0</sup>  |
| Tr. II | dreapta | 04                       | 2200        | 250         | 80 <sup>0</sup>  |

#### Varianta constructiva

Se comanda sub reperul **PH 11.04-00D-ZB**

Sens de rotire privit dinspre antrenare: antiorar

#### Constructive variant

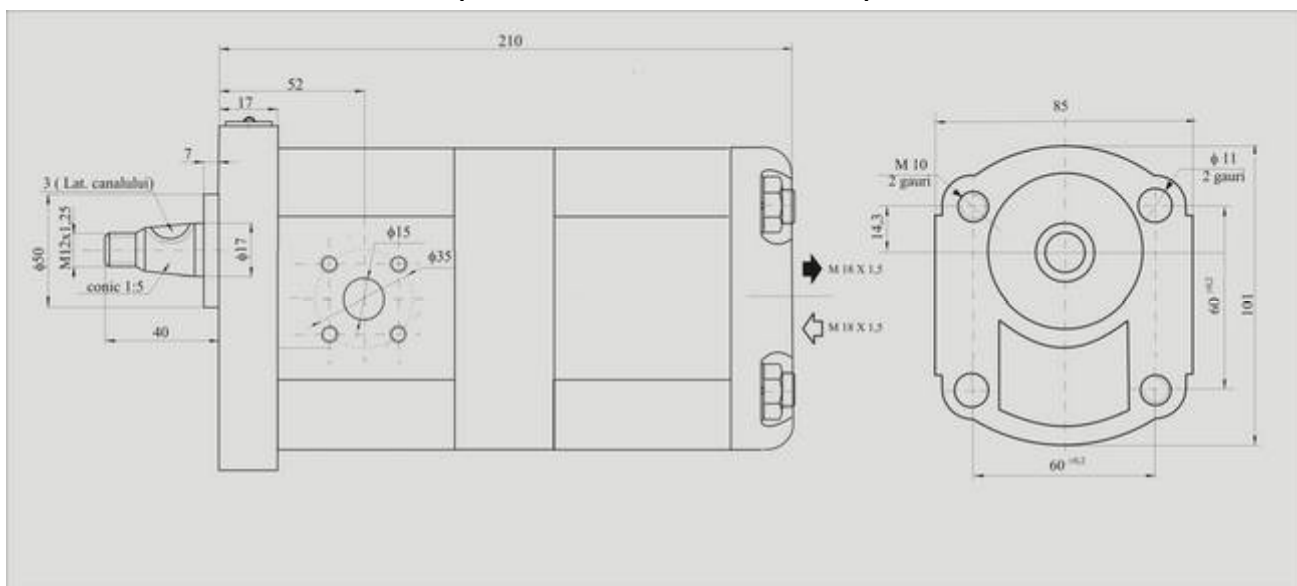
To be ordered under part no **PH 11.04-00D-ZD**

Revolving sense, looking from drive side:  
anti – clockwis

# POMPA HIDRAULICA PH 16.11-00D – ZBDA

## HYDRAULIC PUMP PH 16.11-00D - ZBDA

### (ASPIRATIE DUBLA)



#### Caracteristici tehnice:

#### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 10. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) | t <sup>0</sup> C |
|--------|---------|--------------------------|-------------|-------------|------------------|
| Tr. I  | dreapta | 16                       | 2200        | 250         | 80 <sup>0</sup>  |
| Tr. II | dreapta | 11                       | 2200        | 250         | 80 <sup>0</sup>  |

#### **Varianta constructiva**

Se comanda sub reperul **PH 16.11-00D-ZBDA**

Sens de rotire privit dinspre antrenare: antiorar

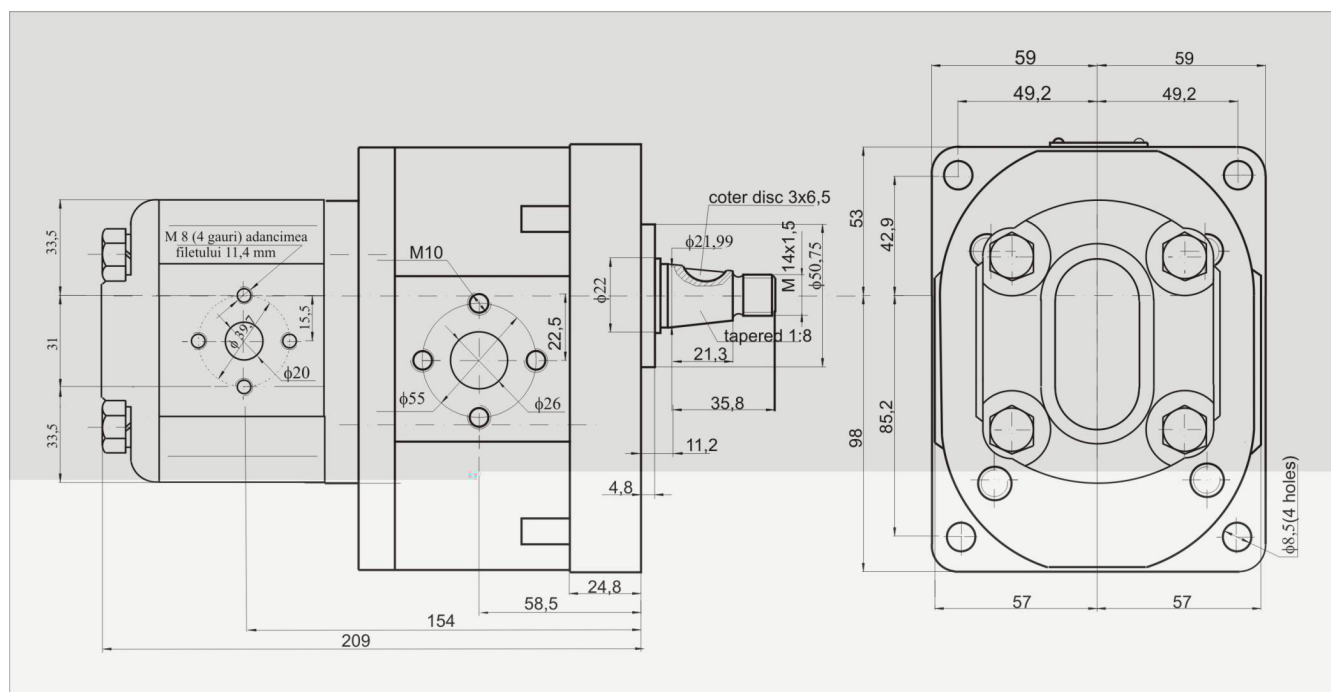
#### **Constructive variant**

To be ordered under part no **PH 16.11-00D-ZBDA**

Revolving sense, looking from drive side:  
anti – clockwis

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 30.11-00D-EZ



*Caracteristici tehnice:*

*Technical characteristics:*

|     |                                                  |                               |                                                  |                                               |
|-----|--------------------------------------------------|-------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate         | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare  | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii) | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 ° ... + 60 °              | Temperature of the environment                   | -15 ° ... + 60 °                              |
| 5.  | Nivel zgomot:                                    | max. 85 dB                    | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                     | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50° - 80° C                   | Oil temperature                                  | 50° - 80° C                                   |
| 8.  | n min:                                           | 800 [rot/min]                 | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 2500 [rot/min]                | Maximum driving shaft speed                      | 2500 [rot/min]                                |
| 10. | n nom:                                           | 1700 [rot/min]                | Nominal driving shaft speed                      | 1700 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                       | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                       | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) | t °C            |
|--------|---------|--------------------------|-------------|-------------|-----------------|
| Tr. I  | dreapta | 30                       | 1700        | 250         | 80 <sup>0</sup> |
| Tr. II | dreapta | 11                       | 1700        | 250         | 80 <sup>0</sup> |

### Varianța constructivă

Se comanda sub reperul **PH 30.11-00S-FZ**

Sens de rotire privit dinspre antrenare: antiorar

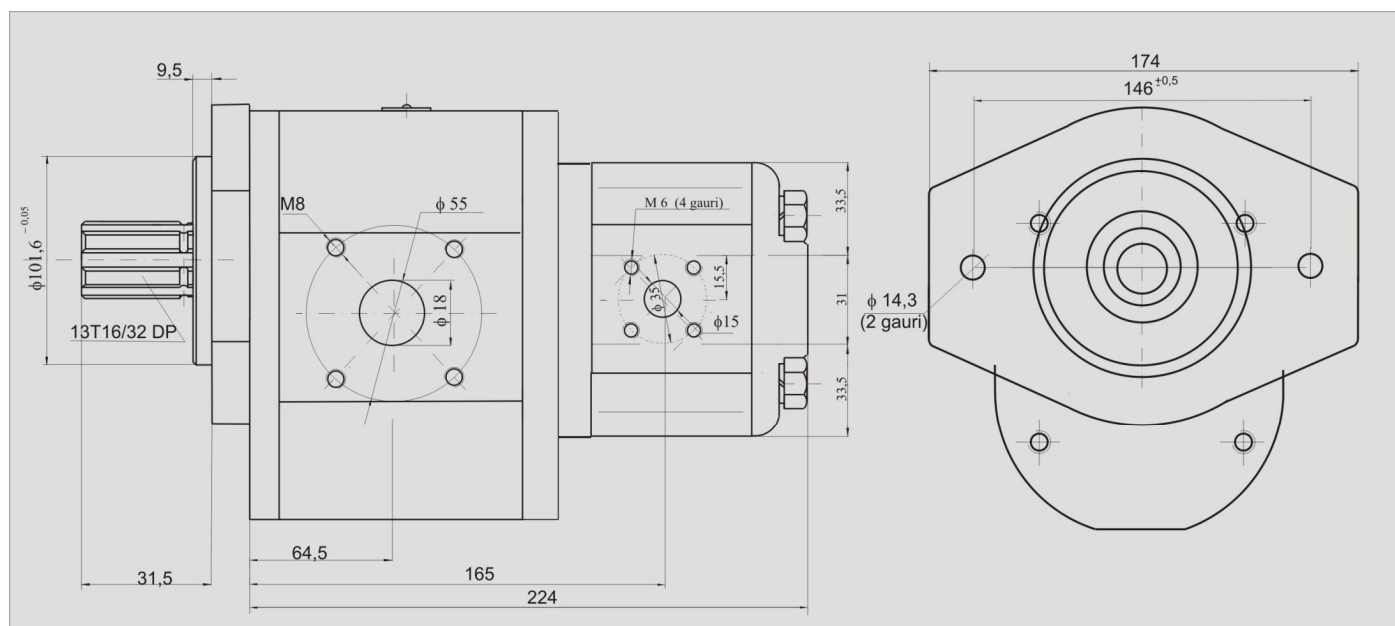
### Constructive variant

To be ordered under part no **PH 30.11-00S-FZ**

Revolving sense, looking from drive side:  
anti - clockwis

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 30.16-00D-FZ-MA



### Caracteristici tehnice:

### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 2500 [rot/min]                         | Maximum driving shaft speed                      | 2500 [rot/min]                                |
| 10. | n nom:                                           | 1700 [rot/min]                         | Nominal driving shaft speed                      | 1700 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) |  |
|--------|---------|--------------------------|-------------|-------------|--|
| Tr. I  | dreapta | 30                       | 1700        | 250         |  |
| Tr. II | dreapta | 16                       | 1700        | 250         |  |

#### **Varianta constructiva**

Se comanda sub reperul **PH 30.11-00S-FZ-MA**

Sens de rotire privit dinspre antrenare: antiorar

#### **Constructive variant**

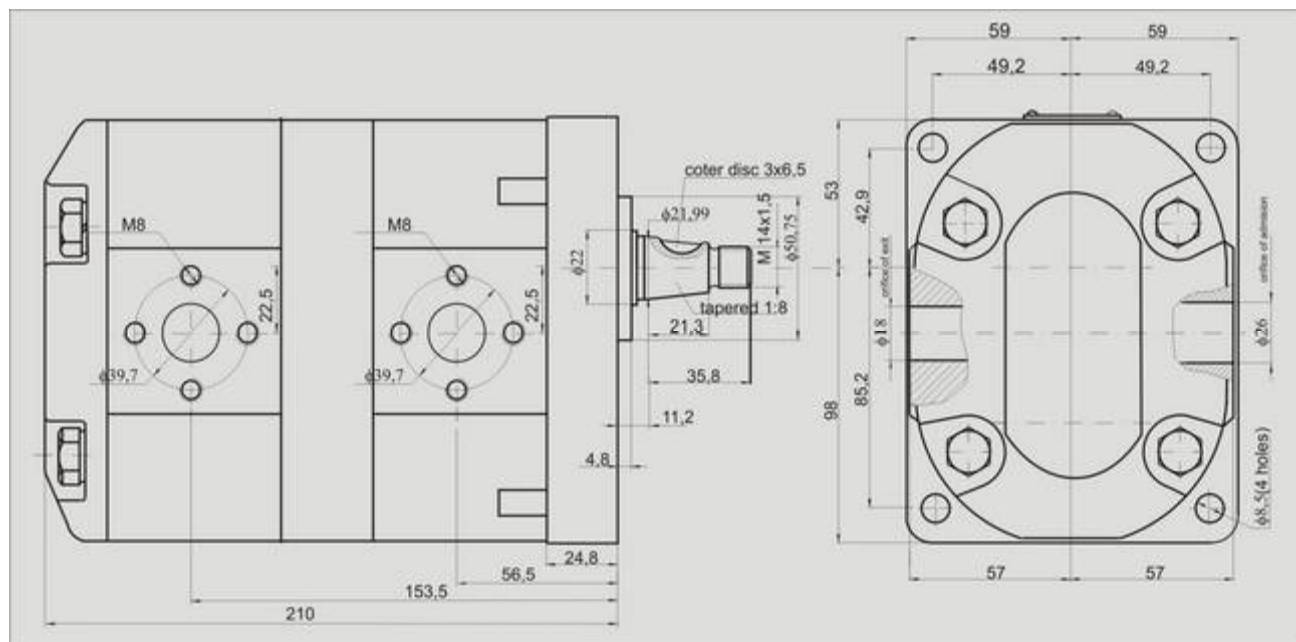
To be ordered under part no **PH 30.11-00S-FZ-MA**

Revolving sense, looking from drive side:  
anti - clockwis

**Echivalent cu 0510 767 018 (prima utilizare IFRON)**

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 22.22-00D-FZ



### Caracteristici tehnice:

### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 2500 [rot/min]                         | Maximum driving shaft speed                      | 2500 [rot/min]                                |
| 10. | n nom:                                           | 1700 [rot/min]                         | Nominal driving shaft speed                      | 1700 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) |  |
|--------|---------|--------------------------|-------------|-------------|--|
| Tr. I  | dreapta | 22                       | 1700        | 250         |  |
| Tr. II | dreapta | 22                       | 1700        | 250         |  |

#### **Varianta constructiva**

Se comanda sub reperul **PH 22.22-00S-FZ**

Sens de rotire privit dinspre antrenare: antiorar

#### **Constructive variant**

To be ordered under part no **PH 22.22-00S-FZ**

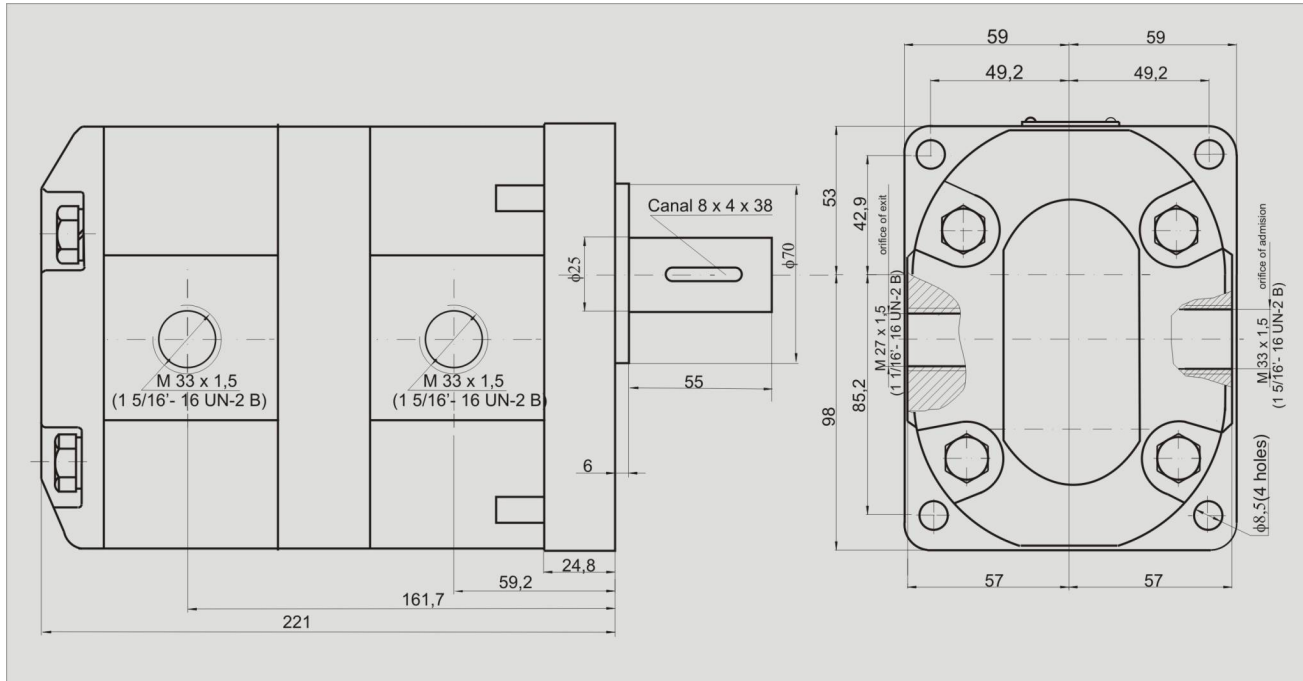
Revolving sense, looking from drive side:  
anti - clockwis

**Echivalent cu PRD 33-2111 S**



# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 32.32-00D-FZ



### Caracteristici tehnice:

### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 2500 [rot/min]                         | Maximum driving shaft speed                      | 2500 [rot/min]                                |
| 10. | n nom:                                           | 1700 [rot/min]                         | Nominal driving shaft speed                      | 1700 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) |  |
|--------|---------|--------------------------|-------------|-------------|--|
| Tr. I  | dreapta | 32                       | 1700        | 250         |  |
| Tr. II | dreapta | 32                       | 1700        | 250         |  |

#### **Varianta constructiva**

Se comanda sub reperul **PH 32.32-00S-FZ**

Sens de rotire privit dinspre antrenare: antiorar

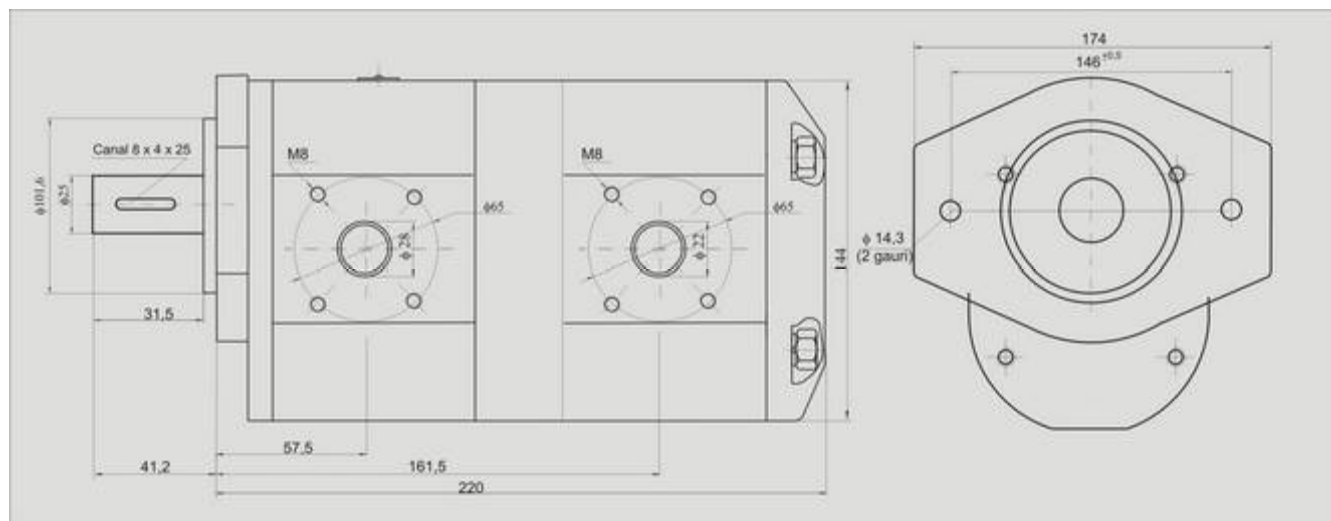
#### **Constructive variant**

To be ordered under part no **PH 32.32-00S-FZ**

Revolving sense, looking from drive side:  
anti - clockwis

# POMPA HIDRAULICA - HYDRAULIC PUMP

## PH 36.30-00D-FZ



### Caracteristici tehnice:

### Technical characteristics:

|     |                                                  |                                        |                                                  |                                               |
|-----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2.  | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3.  | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6.  | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7.  | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8.  | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9.  | n max:                                           | 2500 [rot/min]                         | Maximum driving shaft speed                      | 2500 [rot/min]                                |
| 10. | n nom:                                           | 1700 [rot/min]                         | Nominal driving shaft speed                      | 1700 [rot/min]                                |
| 11. | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 12. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

|        | sens    | q (cm <sup>3</sup> /rot) | n (rot/min) | P nom (bar) |  |
|--------|---------|--------------------------|-------------|-------------|--|
| Tr. I  | dreapta | 36                       | 1700        | 250         |  |
| Tr. II | dreapta | 30                       | 1700        | 250         |  |

### **Varianta constructiva**

Se comanda sub reperul **PH 36.30-00S-FZ**

Sens de rotire privit dinspre antrenare: antiorar

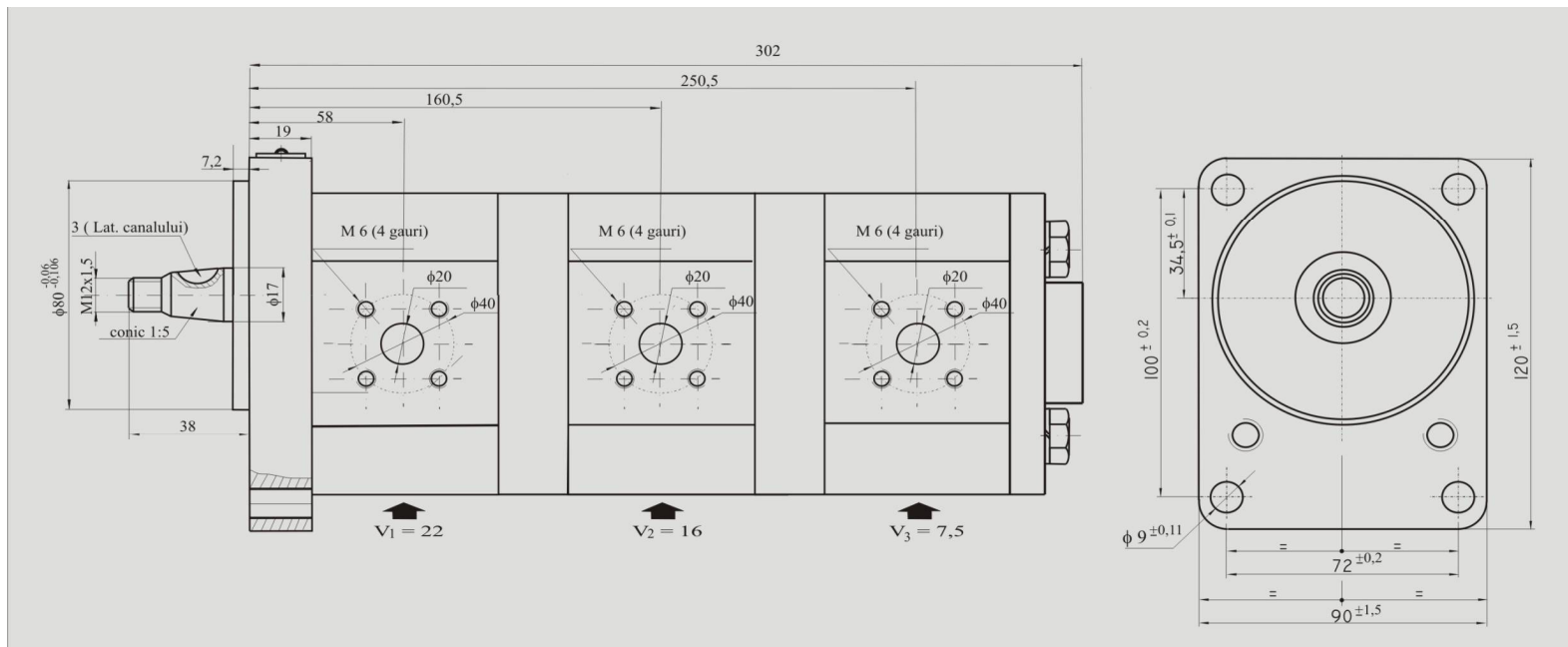
### **Constructive variant**

To be ordered under part no **PH 36.30-00S-FZ**

Revolving sense, looking from drive side:  
anti - clockwis

## POMPA HIDRAULICA PH 22.16.07 -00S- Z

### HYDRAULIC PUMP PH 22.16.07 -00S- Z



|    |                                                  |                                        |                                                  |                                               |
|----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1. | Tip constructiv:                                 | pompa cu roți dinate                   | Constructive type                                | Geared pump                                   |
| 2. | Mod fixare:                                      | flansa și suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3. | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4. | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5. | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6. | Depresiune de aspirație pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7. | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8. | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9. | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 1. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11 | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 1. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

#### Varianta constructiva

Se comanda sub reperul **PH 22.16.07 -00D-Z**

#### Constructive variant

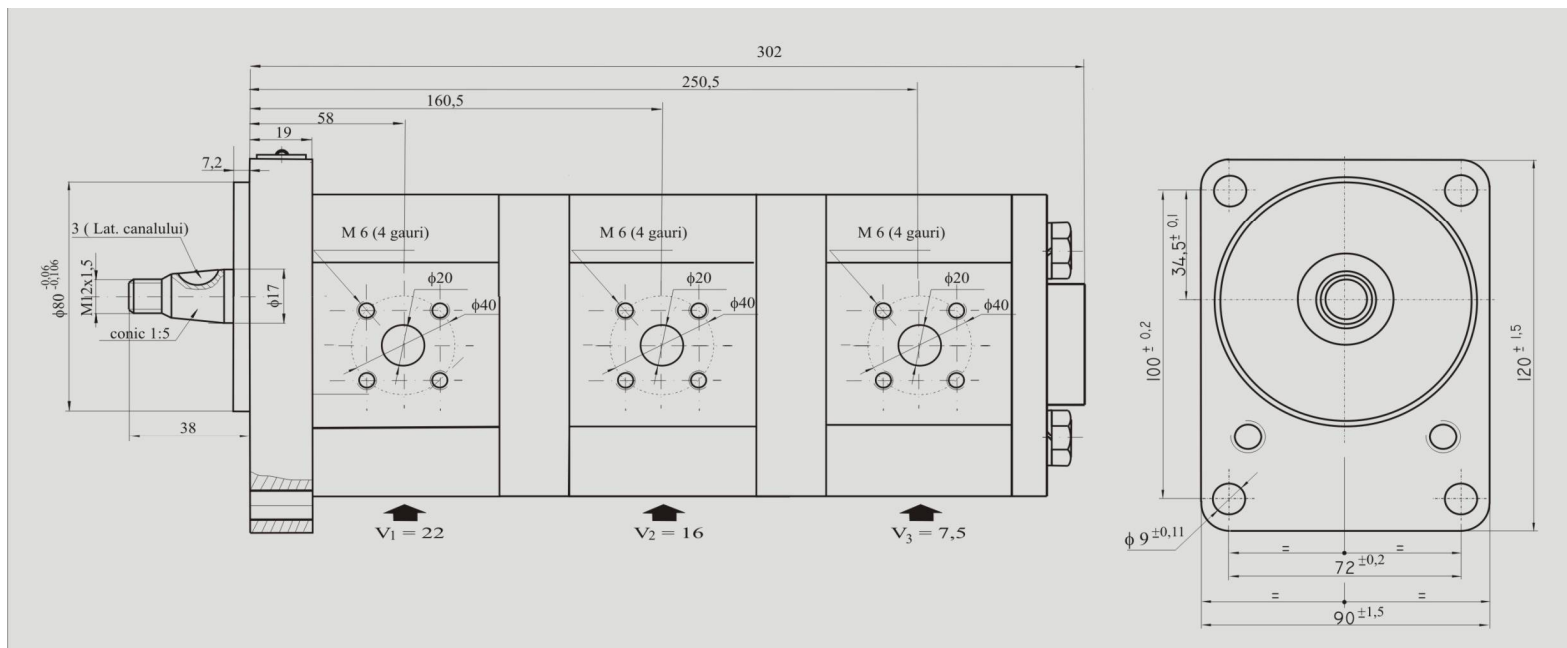
To be ordered under part no **PH 22.16.07 -00D-Z**

Sens de rotație privit dinspre antrenare: antiorar  
orar

Revolving sense, looking from drive side: anti - clockwis  
clockwis

## POMPA HIDRAULICA PH 22.16.07 -00S- Z

### HYDRAULIC PUMP PH 22.16.07 -00S- Z



|    |                                                  |                                        |                                                  |                                               |
|----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1. | Tip constructiv:                                 | pompa cu roti dintate                  | Constructive type                                | Geared pump                                   |
| 2. | Mod fixare:                                      | flansa si suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3. | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4. | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5. | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6. | Depresiune de aspiratie pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7. | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8. | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9. | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 1. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11 | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 1. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

#### Varianta constructiva

Se comanda sub reperul **PH 22.16.07 -00D-Z**

#### Constructive variant

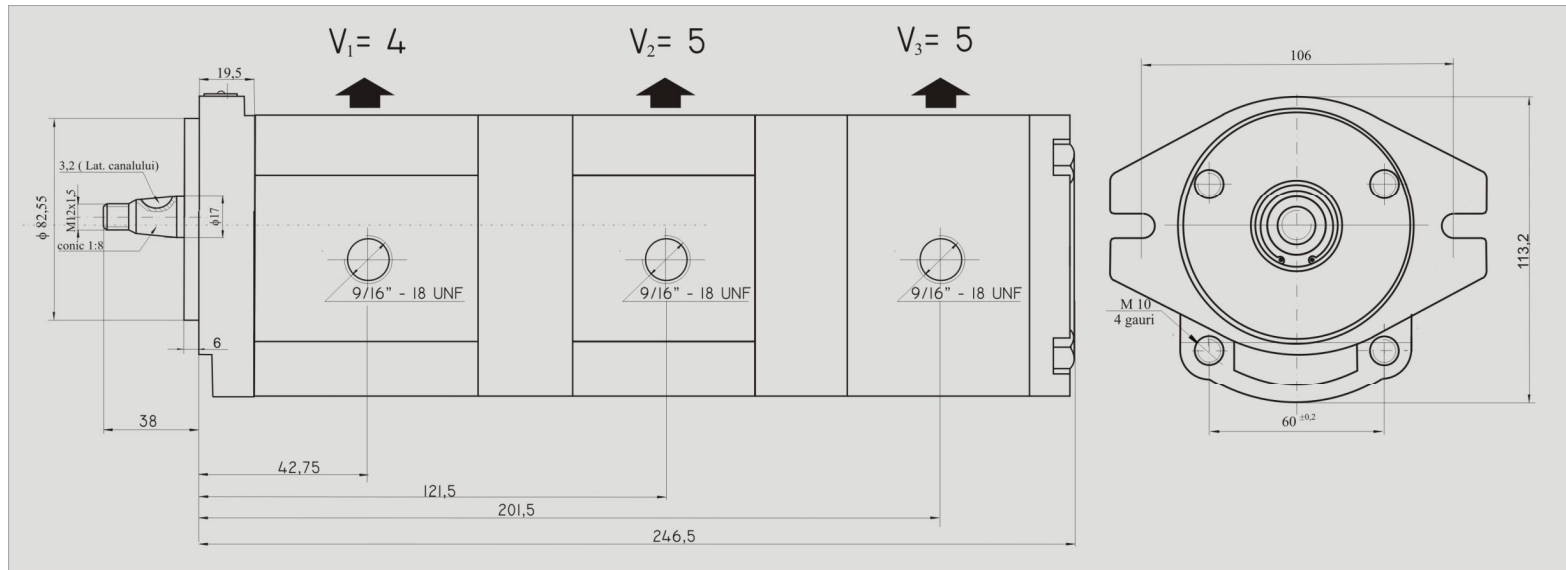
To be ordered under part no **PH 22.16.07 -00D-Z**

Sens de rotire privit dinspre antrenare: antiorar  
orar

Revolving sense, looking from drive side: anti - clockwis  
clockwis

## POMPA HIDRAULICA PH 04.05.05 -00S- Z

### HYDRAULIC PUMP PH 04.05.05 -00S- Z



|    |                                                  |                                        |                                                  |                                               |
|----|--------------------------------------------------|----------------------------------------|--------------------------------------------------|-----------------------------------------------|
| 1. | Tip constructiv:                                 | pompa cu roți dintate                  | Constructive type                                | Geared pump                                   |
| 2. | Mod fixare:                                      | flansa și suruburi de fixare           | Fixing mode                                      | with flanges and screws                       |
| 3. | Antrenare                                        | con 1:5 ; 1:8 (conf comenzii)          | Driving                                          | cone 1:5 ; 1:8 (in accordance with the order) |
| 4. | Temperatura mediu ambiant                        | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment                   | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5. | Nivel zgomot:                                    | max. 85 dB                             | level of the noise                               | max. 85 dB                                    |
| 6. | Depresiune de aspirație pentru amorsarea pompei: | 150 mm Hg                              | Suction depression for the initial work starting | 150 mm Hg                                     |
| 7. | Temperatura uleiului:                            | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                                  | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 8. | n min:                                           | 800 [rot/min]                          | min. driving shaft speed                         | 800 [rot/min]                                 |
| 9. | n max:                                           | 3000 [rot/min]                         | Maximum driving shaft speed                      | 3000 [rot/min]                                |
| 1. | n nom:                                           | 2200 [rot/min]                         | Nominal driving shaft speed                      | 2200 [rot/min]                                |
| 11 | P nom.                                           | 250 bar                                | Nominal pressure                                 | 250 bar                                       |
| 1. | P max:                                           | 300 bar                                | Maximum pressure                                 | 300 bar                                       |

#### Varianta constructiva

Se comanda sub reperul **PH 04.05.05 -00D-Z**

#### Constructive variant

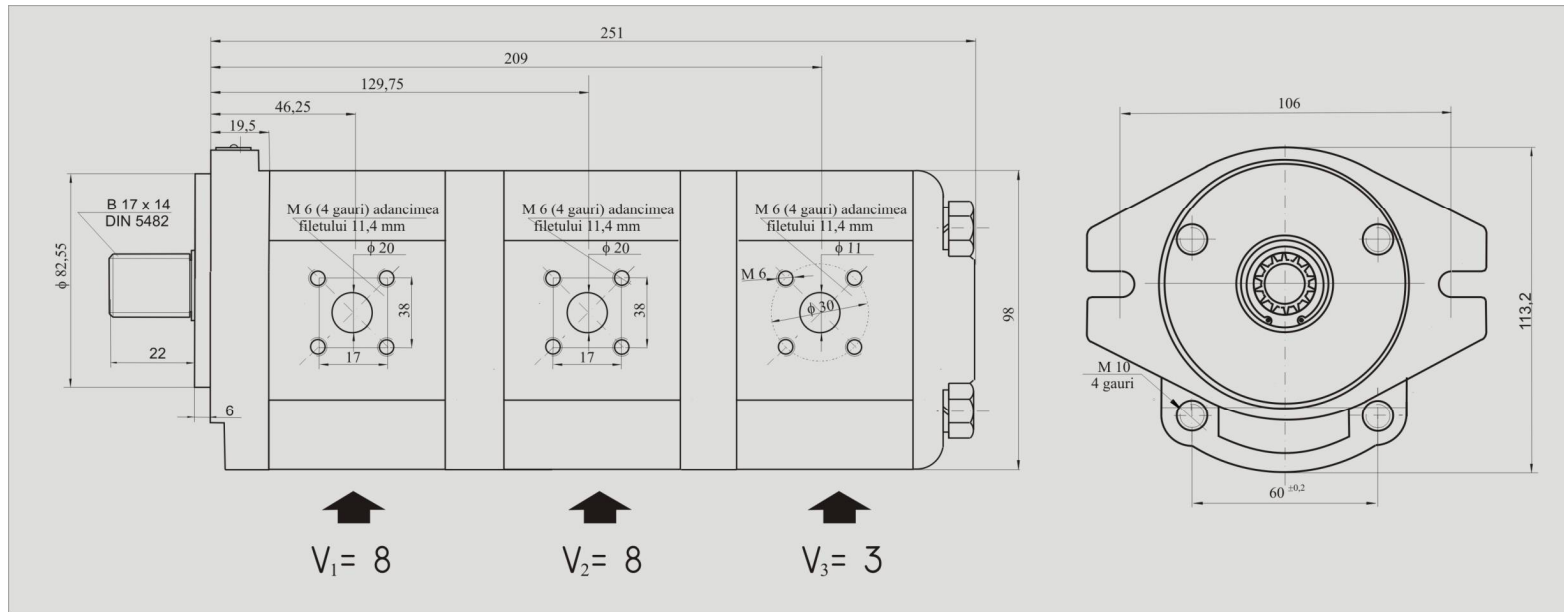
To be ordered under part no **PH 04.05.05 -00D-Z**

Sens de rotație privit dinspre antrenare: antiorar  
orar

Revolving sense, looking from drive side: anti - clockwis  
clockwis

## POMPA HIDRAULICA PH 08.08.03 -00S- Z

### HYDRAULIC PUMP PH 08.08.03 -00S- Z



|    |                                                     |                              |                                                     |                         |
|----|-----------------------------------------------------|------------------------------|-----------------------------------------------------|-------------------------|
| 1. | Tip constructiv:                                    | pompa cu roți dinate         | Constructive type                                   | Geared pump             |
| 2. | Mod fixare:                                         | flansa și suruburi de fixare | Fixing mode                                         | with flanges and screws |
| 3. | Antrenare                                           | B 17 x 14                    | Driving                                             | B 17 x 14               |
| 4. | Temperatura mediu ambiant                           | -15 ° ... + 60 °             | Temperature of the environment                      | -15 ° ... + 60 °        |
| 5. | Nivel zgomot:                                       | max. 85 dB                   | level of the noise                                  | max. 85 dB              |
| 6. | Depresiune de aspirație pentru<br>amorsarea pompei: | 150 mm Hg                    | Suction depression for the initial<br>work starting | 150 mm Hg               |
| 7. | Temperatura uleiului:                               | 50 ° - 80 ° C                | Oil temperature                                     | 50 ° - 80 ° C           |
| 8. | n min:                                              | 800 [rot/min]                | min. driving shaft speed                            | 800 [rot/min]           |
| 9. | n max:                                              | 3000 [rot/min]               | Maximum driving shaft speed                         | 3000 [rot/min]          |
| 1. | n nom:                                              | 2200 [rot/min]               | Nominal driving shaft speed                         | 2200 [rot/min]          |
| 11 | P nom.                                              | 250 bar                      | Nominal pressure                                    | 250 bar                 |
| 1. | P max:                                              | 300 bar                      | Maximum pressure                                    | 300 bar                 |

#### Varianta constructiva

Se comanda sub reperul **PH 08.08.03 -00D-Z**

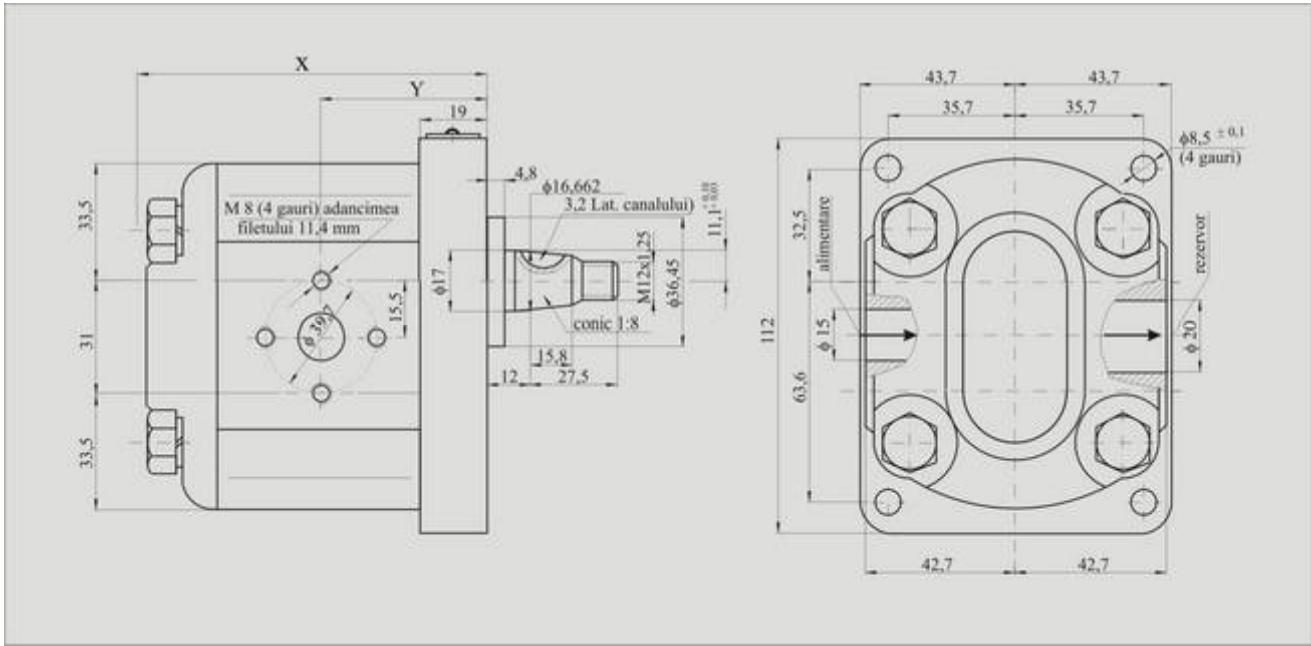
#### Constructive variant

To be ordered under part no **PH 08.08.03 -00D-Z**

Sens de rotație privit dinspre antrenare: antiorar

Revolving sense, looking from drive side: anti - clockwis

**MOTOR HIDRAULIC MH 113-00 S/...**  
**HYDRAULIC ENGINE MH 113-00 S/...**



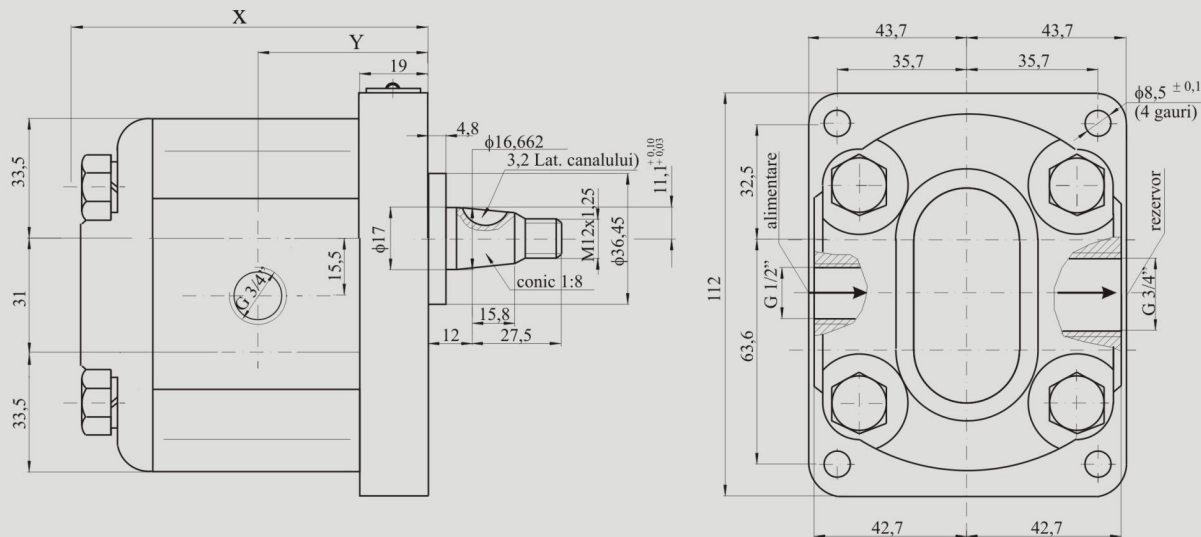
### Caracteristici tehnice:

*Technical characteristics:*

|     |                                          |                                        |                                |                                               |
|-----|------------------------------------------|----------------------------------------|--------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                         | pompa cu roti dintate                  | Constructive type              | Geared pump                                   |
| 2.  | Mod fixare:                              | flansa si suruburi de fixare           | Fixing mode                    | with flanges and screws                       |
| 3.  | Antrenare                                | con 1:5 ; 1:8 (conf comenzii)          | Driving                        | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                            | max. 85 dB                             | level of the noise             | max. 85 dB                                    |
| 6.  | Temperatura uleiului:                    | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 7.  | n min:                                   | 500 [rot/min]                          | min. driving shaft speed       | 500 [rot/min]                                 |
| 8.  | n max:                                   | 2500 -3500 [rot/min]                   | Maximum driving shaft speed    | 2500-3500 [rot/min]                           |
| 9.  | P <sub>1</sub> max: in regim permanent   | 180-210 bar                            | Max. continous pressure        | 180-210 bar                                   |
| 10. | P <sub>2</sub> max: in regim intermitent | 210-250 bar                            | Max. intermittent pressure     | 210-250 bar                                   |
| 11. | P <sub>3</sub> max de varf               | 230-270 bar                            | Max. peak pressure             | 230-270 bar                                   |
| 12. | P de iesire in rezervor                  | 3 bar                                  | Max. output pressure           | 3 bar                                         |

| Reper/Item                     | Debit/Output<br>q cm <sup>2</sup> /rot | P 1<br>(bar) | n max<br>rot/min | Sens/<br>Revolvin<br>g sense | Antrenare | X     | Y    | Echivalenta/<br>Equivalence |
|--------------------------------|----------------------------------------|--------------|------------------|------------------------------|-----------|-------|------|-----------------------------|
| MH 113 -00D/1<br>MH 113- 00S/1 | 11                                     | 210          | 3500             | orar<br>antiorar             | Con 1 : 8 | 98,8  | 50,4 | MRD2-214D<br>MRD2-214S      |
| MH 113 -00D/2<br>MH 113 -00S/2 | 16                                     | 210          | 3000             | orar<br>antiorar             | Con 1 : 8 | 107,8 | 54,4 | MRD2-216D<br>MRD2-216S      |
| MH 113 -00D/3<br>MH 113 -00S/3 | 19                                     | 180          | 3000             | orar<br>antiorar             | Con 1 : 8 | 112,8 | 56,9 | MRD2-217D<br>MRD2-217S      |
| MH 113 -00D/4<br>MH 113 -00S/4 | 22                                     | 180          | 2500             | orar<br>antiorar             | Con 1 : 8 | 118,8 | 59,9 | MRD2-218D<br>MRD2-218S      |

# HYDRAULIC ENGINE MH 113-00 S/...M



Caracteristici tehnice:

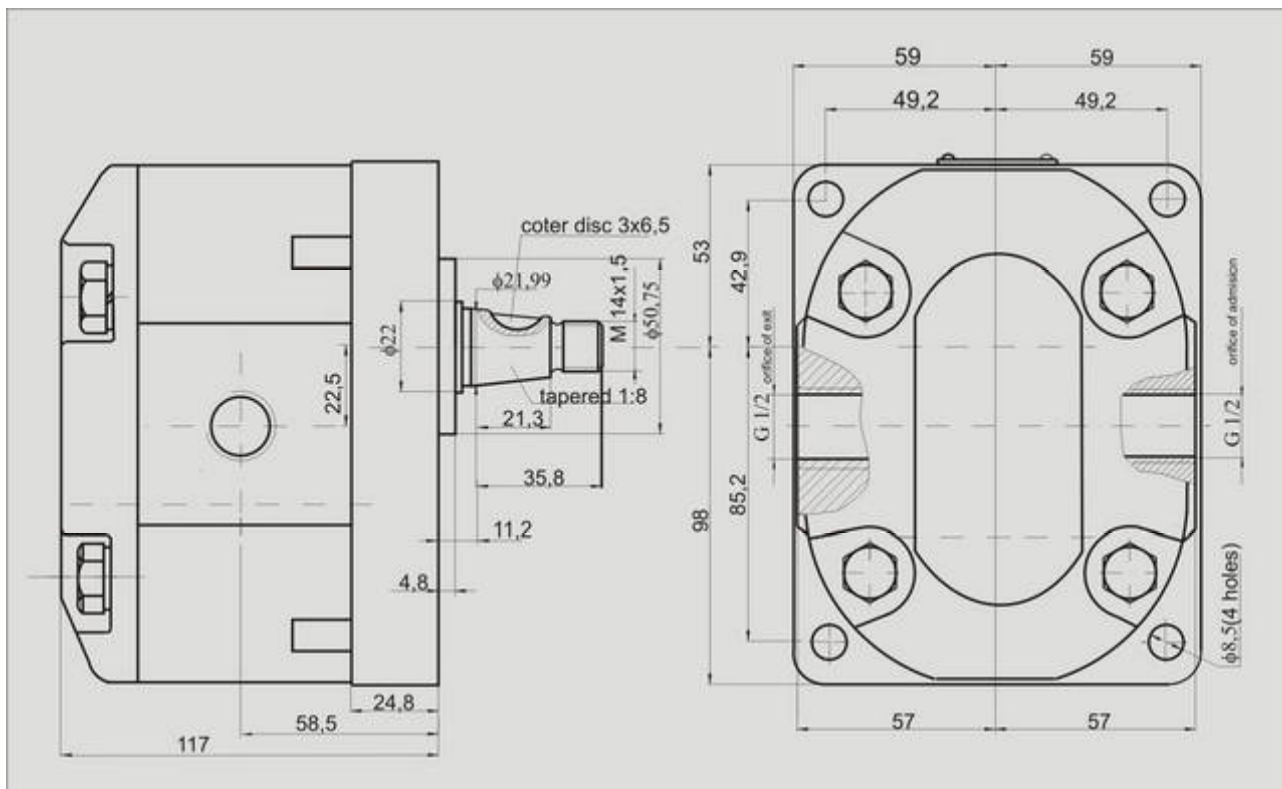
Technical characteristics:

|     |                                          |                                        |                                |                                               |
|-----|------------------------------------------|----------------------------------------|--------------------------------|-----------------------------------------------|
| 1.  | Tip constructiv:                         | pompa cu roti dintate                  | Constructive type              | Geared pump                                   |
| 2.  | Mod fixare:                              | flansa si suruburi de fixare           | Fixing mode                    | with flanges and screws                       |
| 3.  | Antrenare                                | con 1:5 ; 1:8 (conf comenzii)          | Driving                        | cone 1:5 ; 1:8 (in accordance with the order) |
| 4.  | Temperatura mediu ambiant                | -15 <sup>0</sup> ... + 60 <sup>0</sup> | Temperature of the environment | -15 <sup>0</sup> ... + 60 <sup>0</sup>        |
| 5.  | Nivel zgomot:                            | max. 85 dB                             | level of the noise             | max. 85 dB                                    |
| 6.  | Temperatura uleiului:                    | 50 <sup>0</sup> - 80 <sup>0</sup> C    | Oil temperature                | 50 <sup>0</sup> - 80 <sup>0</sup> C           |
| 7.  | n min:                                   | 500 [rot/min]                          | min. driving shaft speed       | 500 [rot/min]                                 |
| 8.  | n max:                                   | 2500 -3500 [rot/min]                   | Maximum driving shaft speed    | 2500-3500 [rot/min]                           |
| 9.  | P <sub>1</sub> max: in regim permanent   | 180-210 bar                            | Max. continous pressure        | 180-210 bar                                   |
| 10. | P <sub>2</sub> max: in regim intermitent | 210-250 bar                            | Max. intermittent pressure     | 210-250 bar                                   |
| 11. | P <sub>3</sub> max de varf               | 230-270 bar                            | Max. peak pressure             | 230-270 bar                                   |
| 12. | P de iesire in rezervor                  | 3 bar                                  | Max. output pressure           | 3 bar                                         |

| Reper/Item                         | Debit/Output<br>q cm <sup>2</sup> /rot | P 1<br>(bar) | n max<br>rot/min | Sens/<br>Revolvin<br>g sense | Antrenare | X     | Y    | Echivalenta/<br>Equivalence |
|------------------------------------|----------------------------------------|--------------|------------------|------------------------------|-----------|-------|------|-----------------------------|
| MH 113 -00D/1 M<br>MH 113- 00S/1 M | 11                                     | 210          | 3500             | orar<br>antiorar             | Con 1 : 8 | 98,8  | 50,4 |                             |
| MH 113 -00D/2 M<br>MH 113 -00S/2 M | 16                                     | 210          | 3000             | orar<br>antiorar             | Con 1 : 8 | 107,8 | 54,4 |                             |
| MH 113 -00D/3 M<br>MH 113 -00S/3 M | 19                                     | 180          | 3000             | orar<br>antiorar             | Con 1 : 8 | 112,8 | 56,9 |                             |
| MH 113 -00D/4 M<br>MH 113 -00S/4 M | 22                                     | 180          | 2500             | orar<br>antiorar             | Con 1 : 8 | 118,8 | 59,9 |                             |



## HYDRAULIC ENGINE MH 14-00S - F



## Caratteristiche

- \* Numar de sectiuni 1
- \* Turatie nominala 2200 rot/min
- \* Presiunea maxima de lucru 300 Kgf/cm<sup>2</sup>
- \* Presiunea nominala 250 kgf/cm<sup>2</sup>
- \* Debitul la presiunea de lucru 60 l/min
- \* Volum geometric 30 cm<sup>3</sup>/rot
- \* Puterea de antrenare 15,5 Kw
- \* Sensul de rotire privit dinspre antrenare:  
orar
- \* Lichidul de lucru: ulei aditivat impotriva  
oxidarii , corodarii si formarii spumei.  
Vascozitatea uleiului sa fie cuprinsa intre  
36 - 40 cSt la 50<sup>0</sup>C si 7,4 cSt la 100<sup>0</sup>C
- \* Temperatura normala de lucru a uleiului 50<sup>0</sup>C
- \* Temperatura maxima de lucru a uleiului 80<sup>0</sup>C
- \* Masa 8,2 Kg

Se comanda sub reperul MH 14-00S - F

### Variantă constructivă

Se comanda sub reperul MH 14-00D- F

Sensul de rotire, privit dinspre antrenare:  
antiorar

## Characteristics

- \* Number of sections 1
- \* Rated speed 2200 r.p.m.
- \* Maximum operating pressure 300 Kp/sq.cm
- \* Nominal pressure 250 Kp/sq.cm
- \* Output at operating pressure 60 l/min
  
- \* Drive power 15,5 Kw
- \* Revolving sense, looking from drive side:  
clockwise
- \* Operating fluid: oil with anti - foaming,  
anti - oxidating and anti - corrosive additive  
Oil viscosity must be between 36 - 40 cSt at  
50<sup>0</sup>C and 7,4 cSt at 100<sup>0</sup>C
- \* Oil operating temperature 50<sup>0</sup>C
- \* Maximum oil temperature 80<sup>0</sup>C
- \* Weight 8,2 Kg

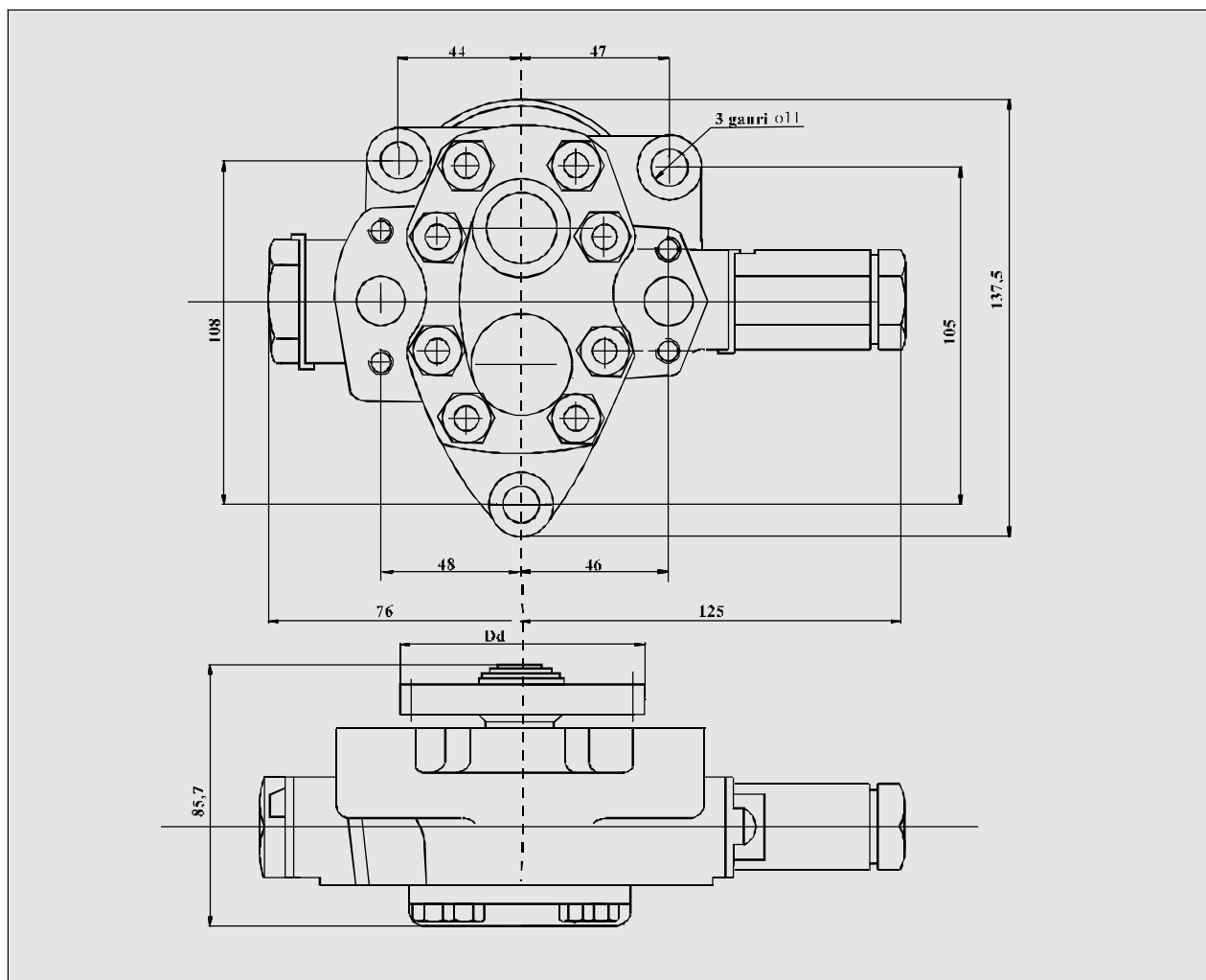
To be ordered under part no MH 14-00S - F

### Constructive variant

To be ordered under part no MH 14-00D - F

Revolving sense, looking from drive side:  
anti - clockwise

## POMPA DE UNGERE CU ROTI DINTATE OIL PUMP WITH GEAR WHEELS



Reper de livrare : **121.08.020**

**Utilizare:** ungerea motorului D121 si variantele sale

### CARACTERISTICI TEHNICE

- \* numar de sectiuni
- \* echipat cu supapa de limitare a presiunii uleiului
- \* presiunea de deschidere a supapei de limitare: 5+0,2bari
- \* presiunea de refulare: 4 bari
- \* temperatura uleiului: 95+5 C
- \* lichidul de lucru: ulei M30 SUPER2  
ulei M30 EXTRA
- \* turatia nominala: 1364 rot/min  
maxima : 1450 rot/min  
minima : 341 rot/min

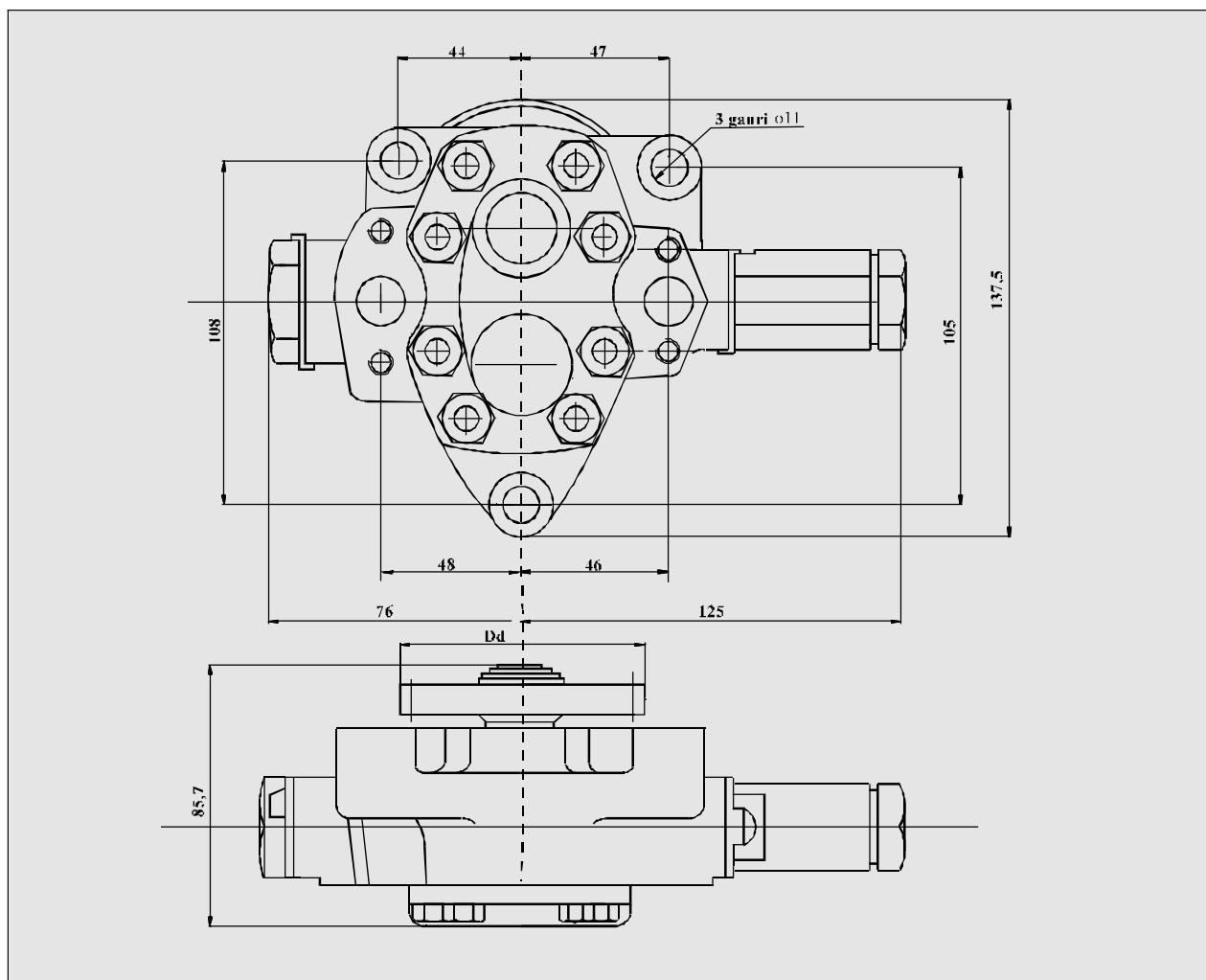
To be ordered under no. **121.08.020**

**Use:** lubrication of the D121 engine and it variants

### TECHNICAL FEATURES

- \* number of sections: 1
- \* equipped with a valve, to limit the oil pressure
- \* the opening pressure of the regulating valve: 5+0.2bar
- \* lifting pressure: 4 bars
- \* oil temperature: 95+5 C
- \* the oil used: M30 SUPER2 oil  
M30 EXTRA oil
- \* rotating speed: 1364 rpm  
maximum speed : 1450 rpm  
minimum speed : 341 rpm

## POMPA DE UNGERE CU ROTI DINTATE OIL PUMP WITH GEAR WHEELS



Reper de livrare : **2404.08.0355**

**Utilizare:** ungerea motorului 2404-062A

### CARACTERISTICI TEHNICE

- \* numar de sectiuni 1
- \* echipat cu supapa de limitare a presiunii uleiului  
2601.08.0334
- \* inceputul deschiderii supapei : 8,5+1bar
- \* sfarsitul deschiderii supapei: max 12 bar
- \* Debit la turatie nomonala si  $P_1 = 1$  bar ... 36 l/min
- \* Debit la turatie nominala si  $P_2 = 4$  bar ... 34 l/min
- \* temperatura uleiului: 95+5 C
- \* lichidul de lucru: ulei M30 SUPER2  
ulei M30 EXTRA
- \* turatia nominala: 1364 rot/min  
maxima : 1450 rot/min  
minima : 341 rot/min

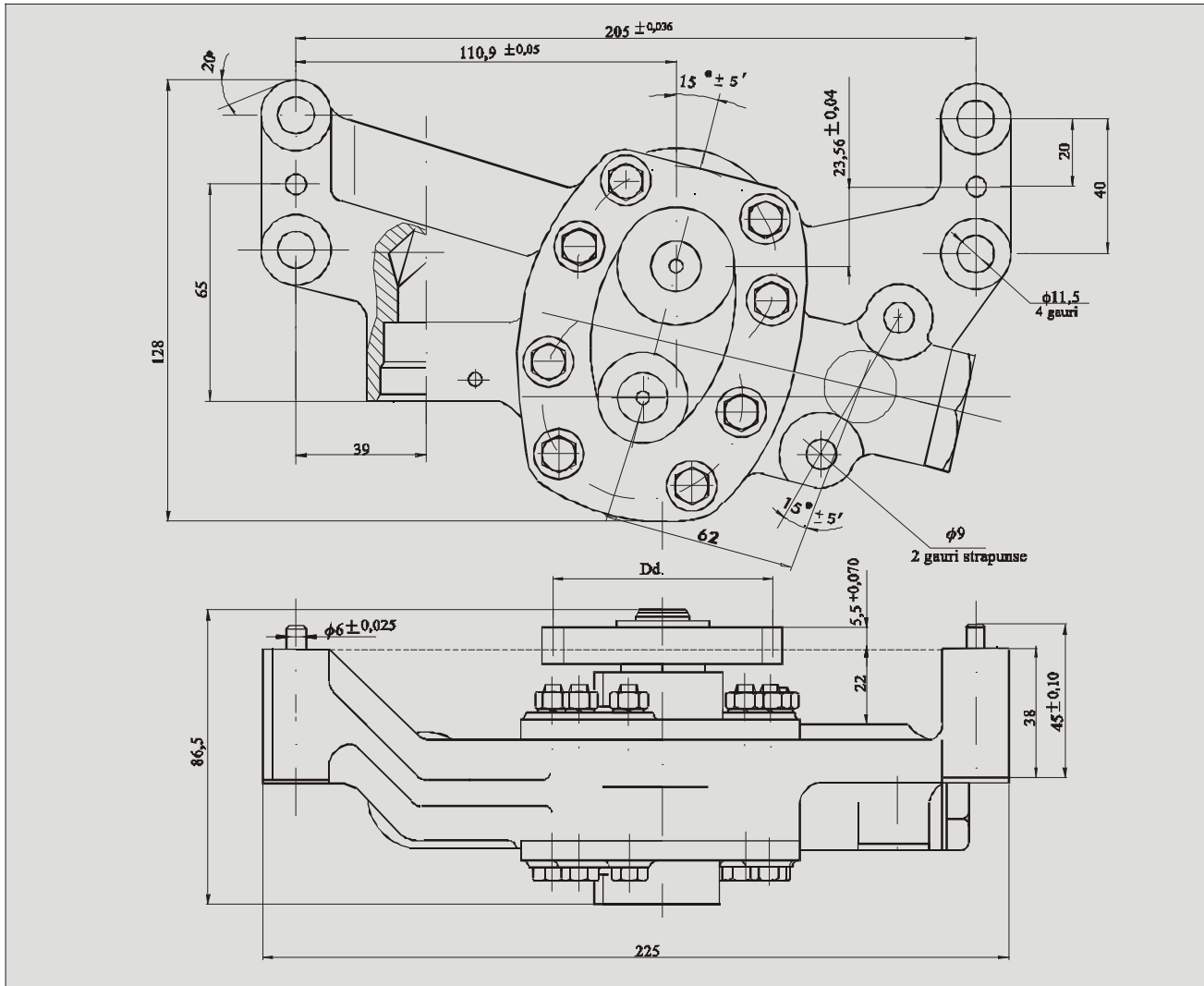
To be ordered under no. **2404.08.0355**

**Use:** lubrication of the 2404-062A

### TECHNICAL FEATURES

- \* number of sections: 1
- \* equiped with a valve, to limit the oil pressure  
2601.08.0334
- \* The beginning opening pressure of valve : 8,5+1bar
- \* The ending opening pressure of valve : max 12 bar
- \* output at nominal rated speed  $P_1 = 1$  bar ... 36 l/min
- \* output at nominal rated speed  $P_2 = 4$  bar ... 34 l/min
- \* oil temperature: 95+5 C
- \* the oil used: M30 SUPER2 oil  
M30 EXTRA oil
- \* rotating speed: 1364 rpm  
maximum speed : 1450 rpm  
minimum speed : 341 rpm

## POMPA DE ULEI OIL PUMP



| Reper de comanda<br>To be ordered under no; | Interschimbabil cu :<br>Interchangeable with: | Utilizare<br>Use        | Roata de antrenare<br>Driving Wheel |
|---------------------------------------------|-----------------------------------------------|-------------------------|-------------------------------------|
| H17-00                                      | 110 08 012                                    | motor D110 (65CP, 70CP) | Dd = 65,721                         |
| H17/1-00                                    |                                               | motor 2402 (80CP AVL)   | Dd = 80,009                         |

\* Destinatie : asigura transportul uleiului sub presiune in circuitul de ungere al motorului .

Purpose: it assures the transfer of the pressured oil into the motor greasing circuit.

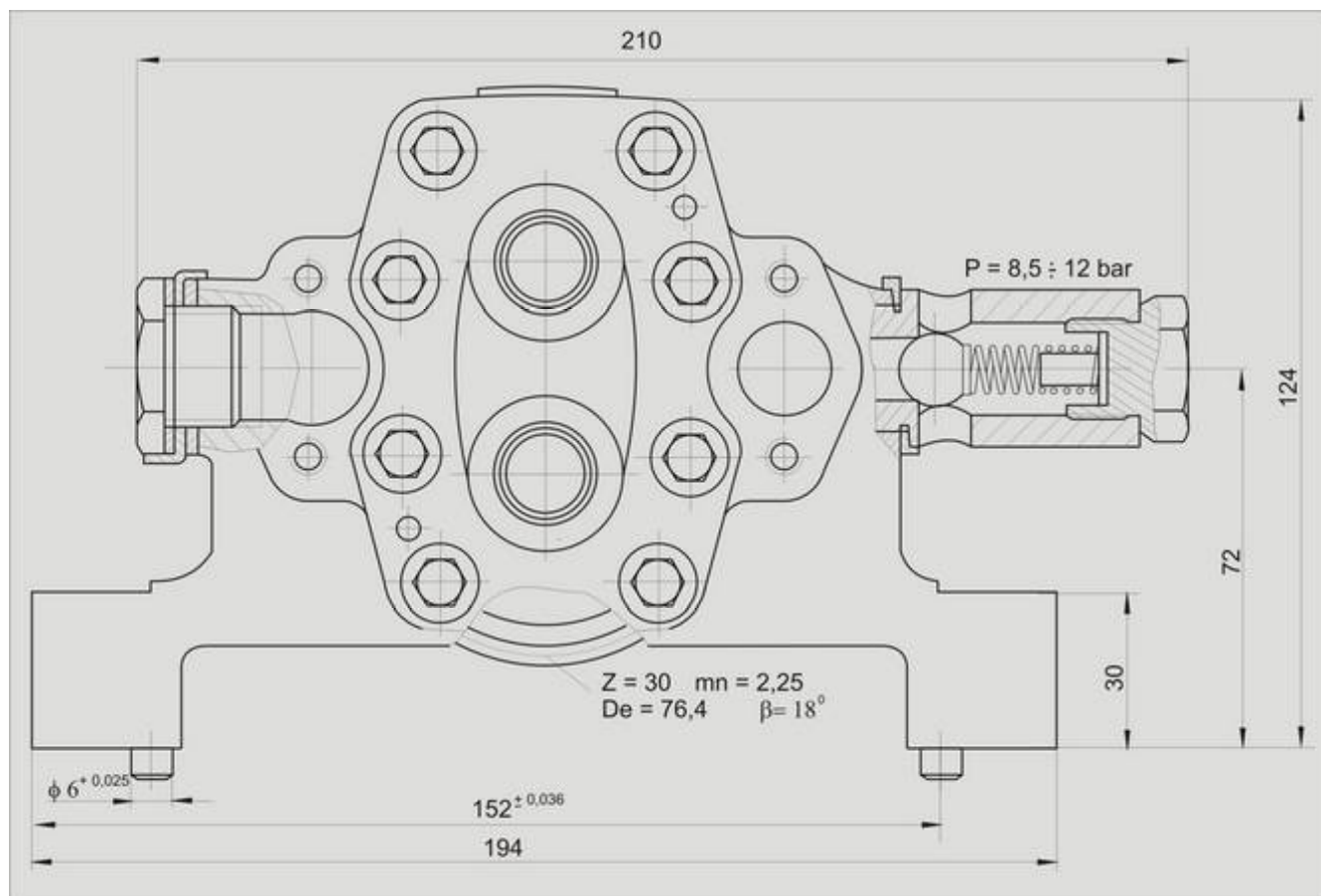
### CARACTERISTICI TEHNICE

### TECHNICAL FEATURES

- \* debit minim: 46,6 l/min.(la o turatie de 1885 rot/min si o presiune de refulare 3,5-4bar)
- \* inaltimea de aspiratie: 250 mm
- \* dimensiuni de gabarit: 225x128x87 mm
- \* masa neta : 4 Kg

- \* min.flow: 46.6 l per min.(at a speed of 1885rot per min and a lifting flow 3.5-4bar)
- \* the suction column height: 250 mm
- \* overall dimensions: 225x128x87 mm
- \* net weight : 4 k

**POMPA DE ULEI 2601.08.0428**  
**OIL PUMP 2601.08.0428**



\* Destinație : asigura transportul uleiului sub presiune in circuitul de ungere al motorului .

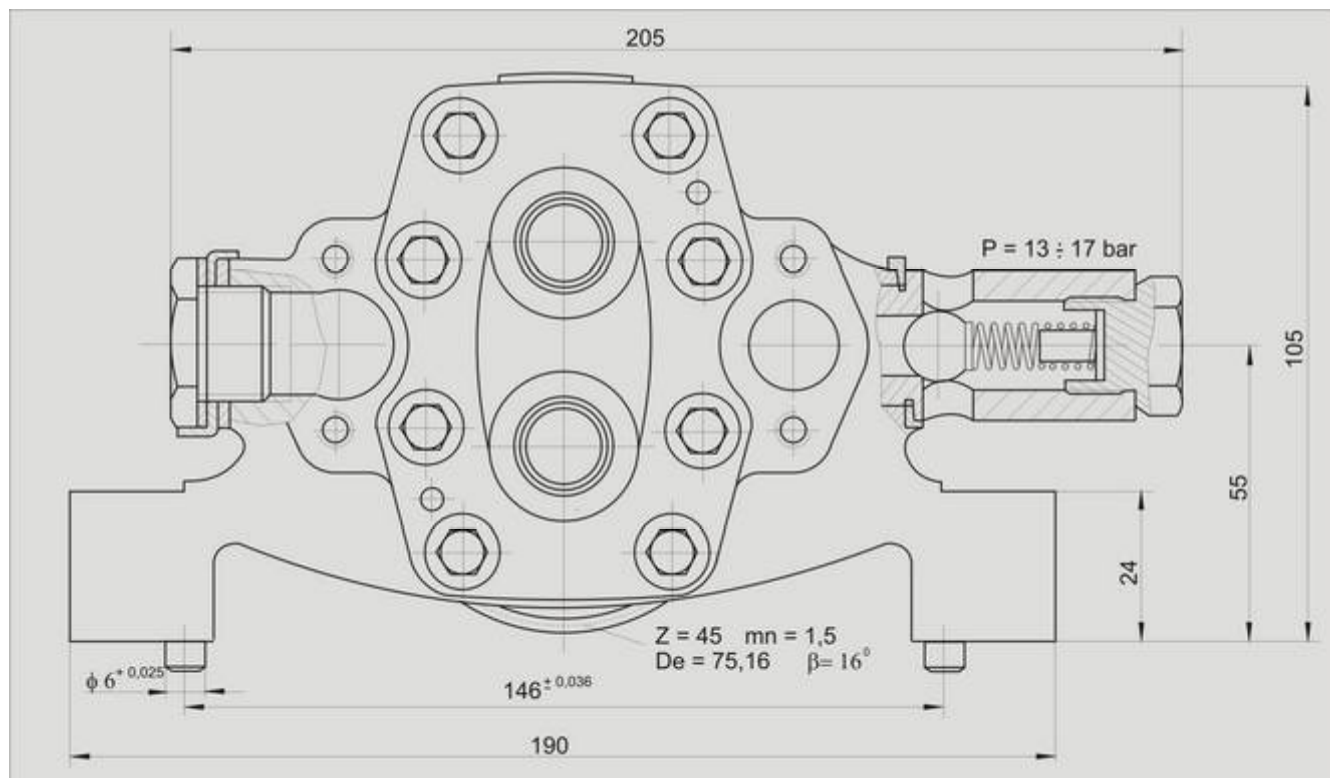
Purpose: it assures the transfer of the pressured oil into the motor greasing circuit.

**CARACTERISTICI TEHNICE**

**TECHNICAL FEATURES**

|                                                                    |                                                                       |
|--------------------------------------------------------------------|-----------------------------------------------------------------------|
| * Turatie nominala: 2143 rot/min                                   | * Rated speed : 2143 r.p.m.                                           |
| * Turatie maxima 2277 rot/min                                      | * Maximum speed 2277 r.p.m.                                           |
| * Turatie minima 536 rot/min                                       | * Minimum speed 536 r.p.m.                                            |
| * Inceput deschidere supapa: 8,5 – 9 bar                           | * The beginning opening pressure of valve : 8.5 – 9 bar               |
| * Sfarsitul deschiderii: supapei: max. 12 bar                      | * The ending opening pressure of valve : max. 12 bar                  |
| * debit minim: 53 l/min.(la turatie nominala si presiune de 5 bar) | * Minimum flow : 53 l/ min ( at rated speed and a pressure of 5 bar ) |

## POMPA DE ULEI 19-1A-00 OIL PUMP 19-1A-00



\* Destinație : asigura transportul uleiului sub presiune in circuitul de ungere al motorului .

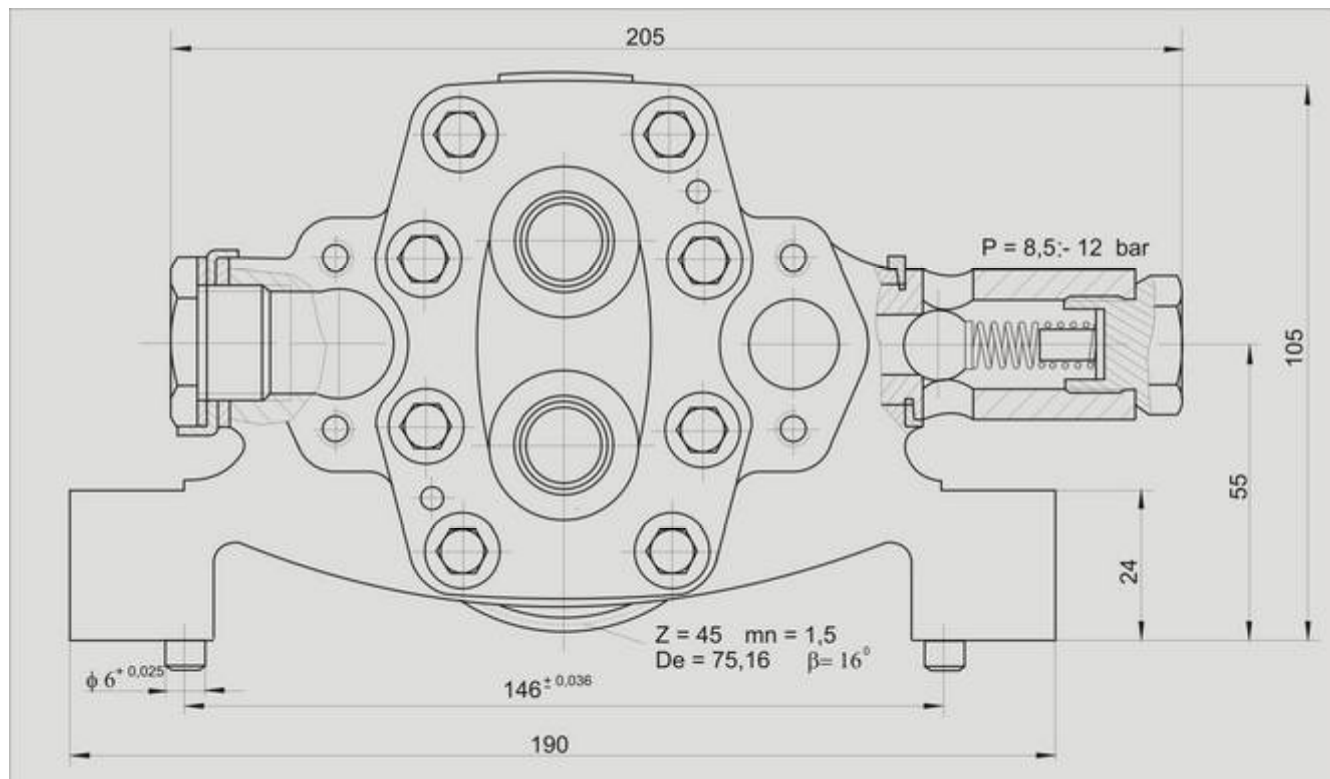
Purpose: it assures the transfer of the pressured oil into the motor greasing circuit.

### CARACTERISTICI TEHNICE

### TECHNICAL FEATURES

|                                                                     |                                                                        |
|---------------------------------------------------------------------|------------------------------------------------------------------------|
| * Turatie nominala: 2000 rot/min                                    | * Rated speed 2000 r.p.m.                                              |
| * Turatie maxima 2300 rot/min                                       | * Maximum speed 2300 r.p.m.                                            |
| * Turatie minima 550 rot/min                                        | * Minimum speed 550 r.p.m                                              |
| * Temperatura uleiului: 95 <sup>0</sup>                             | * The oil temperature 95 <sup>0</sup> C                                |
| * Uleiul utilizat este M 30 Super 2                                 | * The used oil is M30 Super 2                                          |
| * Inceput deschidere supapa: 13 – 13,6 bar                          | * The beginning opening pressure of valve : 13 – 13.6 bar              |
| * Sfarsitul deschiderii supapei: 16 – 17 bar                        | * The ending opening pressure of valve : 16 – 17 bar                   |
| * debit minim: 52 l/min.(la turatie nominala si presiune de 11 bar) | * Minimum flow : 52 l / min (at rated speed and a pressure of 11 bar ) |

## POMPA DE ULEI 2601.08.0340 OIL PUMP 2601.08.0340



\* Destinatie : asigura transportul uleiului sub presiune in circuitul de ungere al motorului .

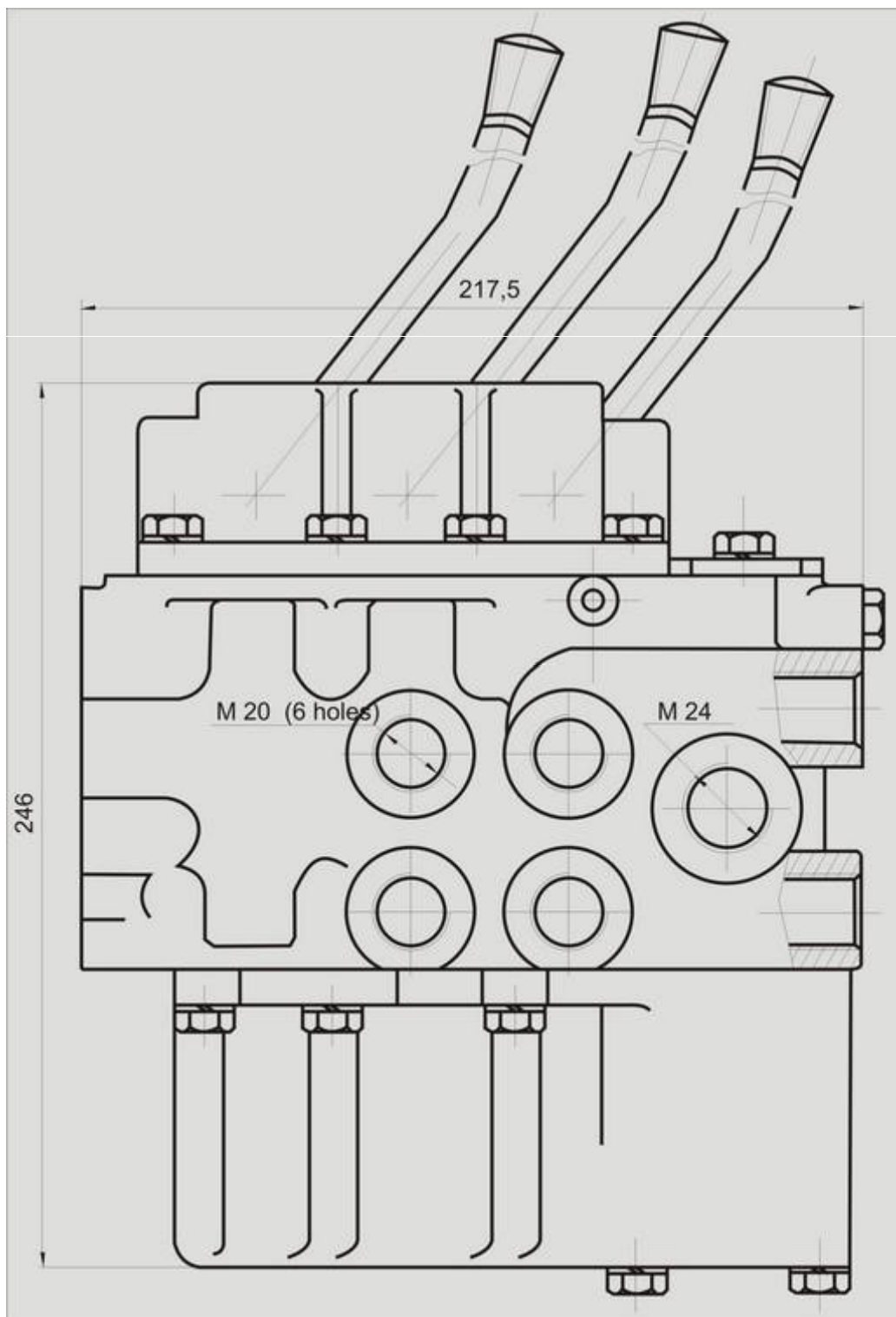
Purpose: it assures the transfer of the pressured oil into the motor greasing circuit.

### CARACTERISTICI TEHNICE

### TECHNICAL FEATURES

|                                                                    |                                                                     |
|--------------------------------------------------------------------|---------------------------------------------------------------------|
| * echipat cu supapa de limitare a presiunii uleiului 2601.08.0334  | * equipped with a valve,to limit the oil pressure 2601.08.0334      |
| * Turatie nominala: 2000 rot/min                                   | * Rated speed 2000 r.p.m.                                           |
| * Turatie maxima 2300 rot/min                                      | * Maximum speed 2300 r.p.m.                                         |
| * Turatie minima 550 rot/min                                       | * Minimum speed 550 r.p.m                                           |
| * Temperatura uleiului: 95 <sup>0</sup>                            | * The oil temperature 95 <sup>0</sup> C                             |
| * Uleiul utilizat este M 30 Super 2                                | * The used oil is M30 Super 2                                       |
| * Inceput deschidere supapa: 8,5 – 9,5 bar                         | * The beginning opening pressure of valve : 8,5 – 9,5 bar           |
| * Sfarsitul deschiderii supapei: max 12 bar                        | * The ending opening pressure of valve : max 12 bar                 |
| * Debit la turatie nominala si P <sub>1</sub> = 1 bar ... 36 l/min | * output at nominal rated speed P <sub>1</sub> = 1 bar ... 36 l/min |
| * Debit la turatie nominala si P <sub>2</sub> = 4 bar ... 34 l/min | * output at nominal rated speed P <sub>2</sub> = 4 bar ... 34 l/min |

## DISTRIBUTOR D7 - D7 DISTRIBUTOR



### CARACTERISTICI

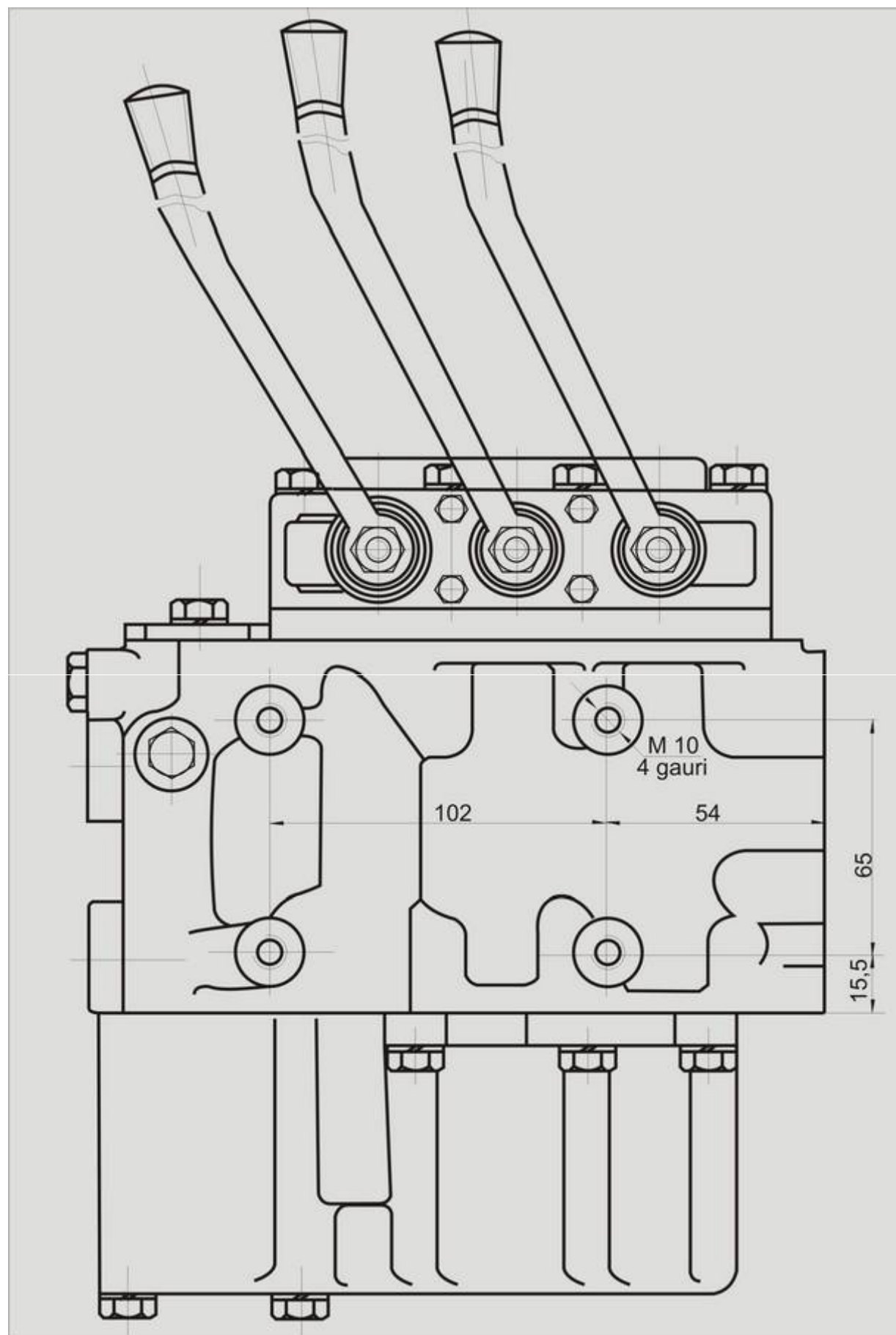
- Nr.de sectiuni:3,cu actionare independenta
- Alternativa functionare:coborare,urcare,flotant si neutru,cu revenire automata in pozitie neutra
- Comanda sertarelor: manual
- Presiunea max. de lucru: 135 kgf/cmp.
- Presiunea de actionare: 95-110 kgf/cmp.
- Capacitatea de trecere: 75l/min.
- Greutatea:13,4 Kg

### CHARACTERISTICS

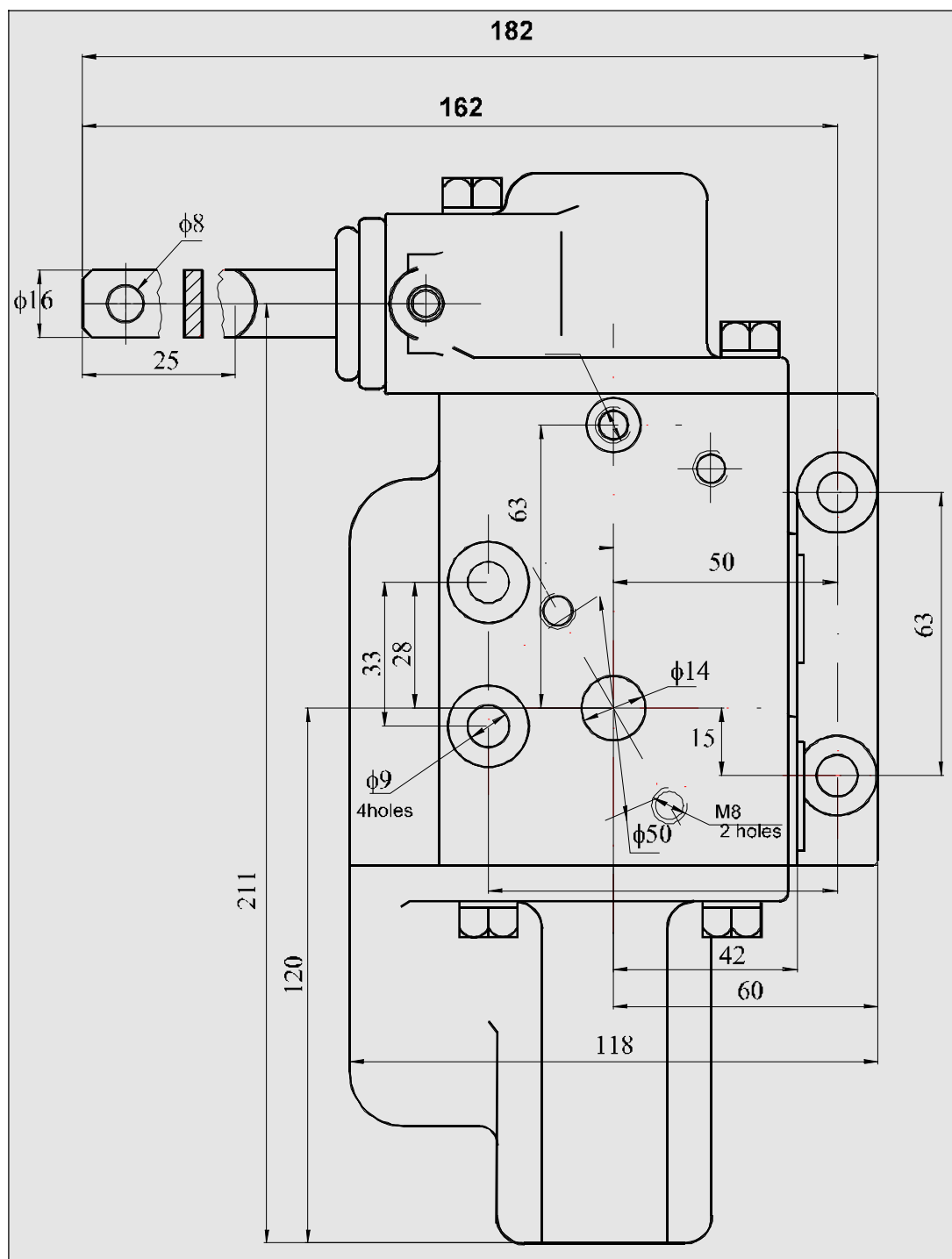
- No. of sections:3,with separate driving system
- Working positions:lifting,lowering,floating and neutral;automatic return to neutral position
- Slide valves control: manual
- Max. working pressure: 135 kgf per sqcm.
- Driving pressure:95-110 kgf per sqcm.
- Capacity: 75 l per min.
- Weight: 13.4 k



# DISTRIBUTOR D7 - D7 DISTRIBUTOR



## DISTRIBUTOR D 11 - D 11 DISTRIBUTOR



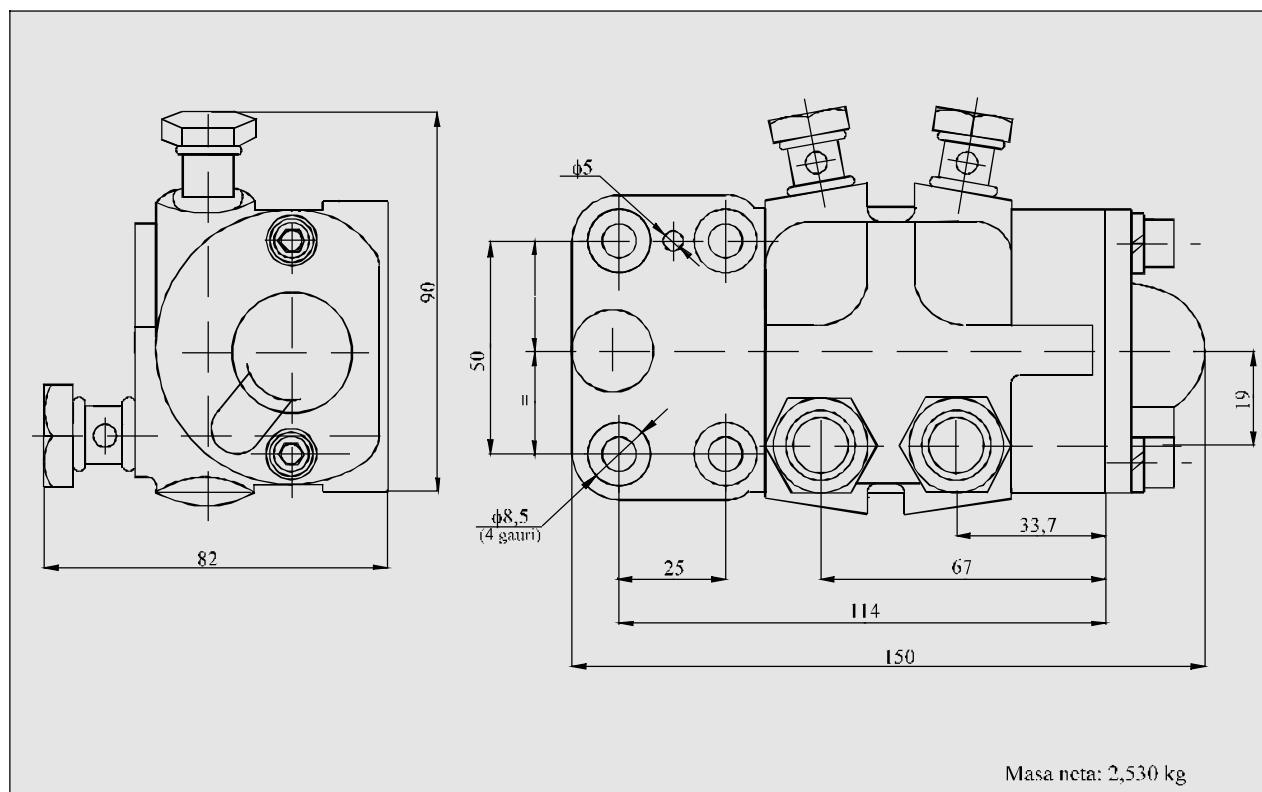
### CARACTERISTICI

- Tipul distribuitorului:cu sertarase ,declansare automata
- Nr.de sectiuni:2,cu actionare independenta
- Alternative de functionare:ridicare,neutru,coborare si flotant,cu revenire automata in pozitia neutru din poz. urcare si coborare.
- Presiunea de declansare a sertaraselor:120 +10 kgf/cmp.
- Presiunea maxima de lucru: 150 kgf/cmp.
- Capacitatea de trecere: 50l/min.
- Greutatea; 9,5 kg

### CHARACTERISTICS

- Distributor type:with slide-valves,automatic control
- No.of sections:2,with separate driving system
- Working positions:lifting,lowering,floating, and neutral:automatic return to neutral position
- Slide-valves pressure:120+10 Kgf per sqcm.
- Maximum working pressure:150 kgf per sqcm.
- Capacity: 50 l per min.

## DISTRIBUITOR SERVODIRECTIE C.S. 61-00

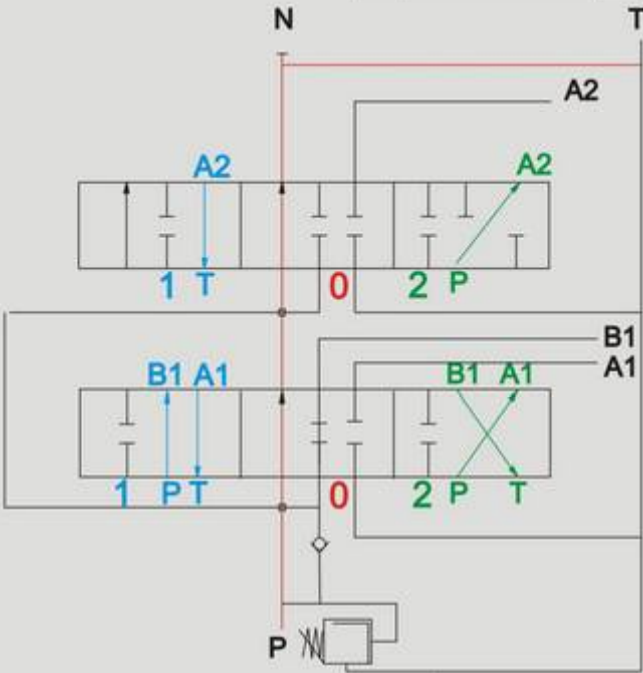
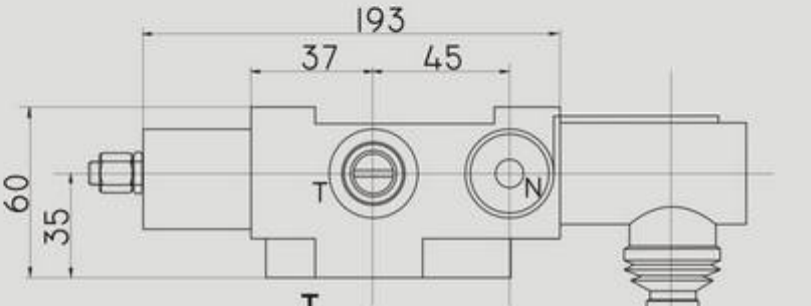
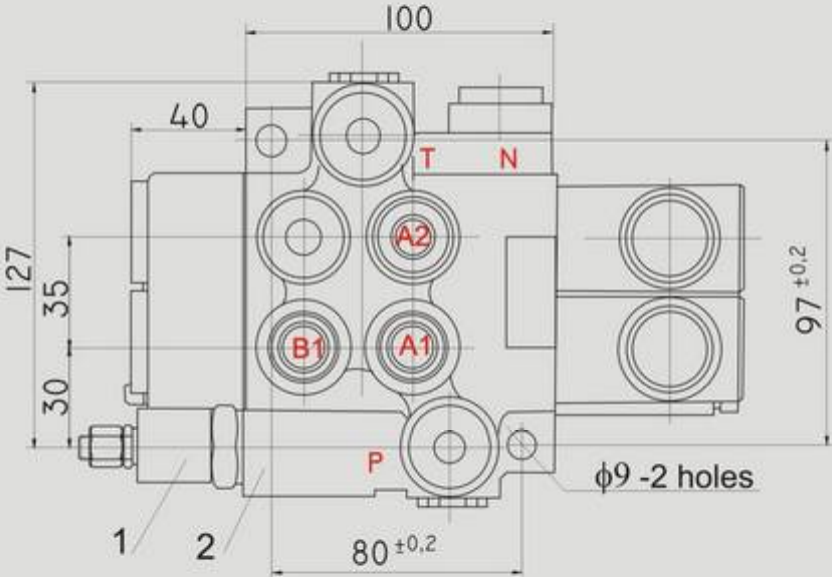


Distribuitorul hidraulic de servodirectie C.S.61-00 (identic cu reperul 38.33.036) se monteaza pe servomotorul hidraulic de directie tip 31.33.901 sau 38.33.902 prin intermediul caruia se modifica directia de inaintare a tractoarelor de 65 si 80 CP.

### Caracteristici dimensionale:

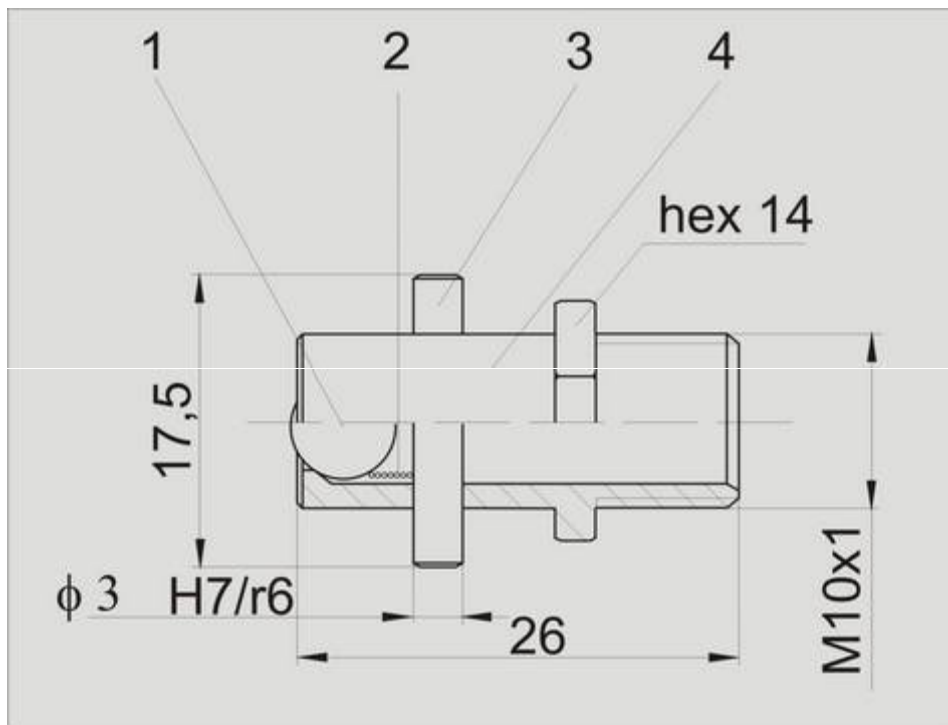
- \* Diametrul sertarului - 25 mm
- \* Cursa totala a sertarului - 3 mm in ambele sensuri fata de pozitia de medie.
- \* Presiunea maxima de lucru - 80 bar.
- \* Viteza maxima de deplasare - 25 mm/sec. cremaliera
- \* Ulei T75 EP1 STAS 10667-80 sau echivalente la o temperatura de minim 20<sup>0</sup> C.

# HYDRAULIC DISTRIBUTOR D17 (02D40A1B1GMF1)



|                                   |                                   |                                                               |
|-----------------------------------|-----------------------------------|---------------------------------------------------------------|
| Joint holes                       | P,T,N - G1/2"<br>A1,B1,A2 - G1/2" |                                                               |
| Sections                          | 2                                 |                                                               |
| Working fluid                     | Mineral oil                       | Viscosity range 10...250 cSt<br>Temperature range -10...+70°C |
| Max. pressure(bar)                | P=250, T=50, A,B=300              |                                                               |
| Contamination class ISO 4406:1994 | 21/19/16                          |                                                               |
| Nominal diameter(mm)              | 19                                |                                                               |
| Nominal flow(mm)                  | 40                                |                                                               |
| Stroke(mm)                        | 6                                 |                                                               |
| Weight(kg)                        | 4                                 |                                                               |

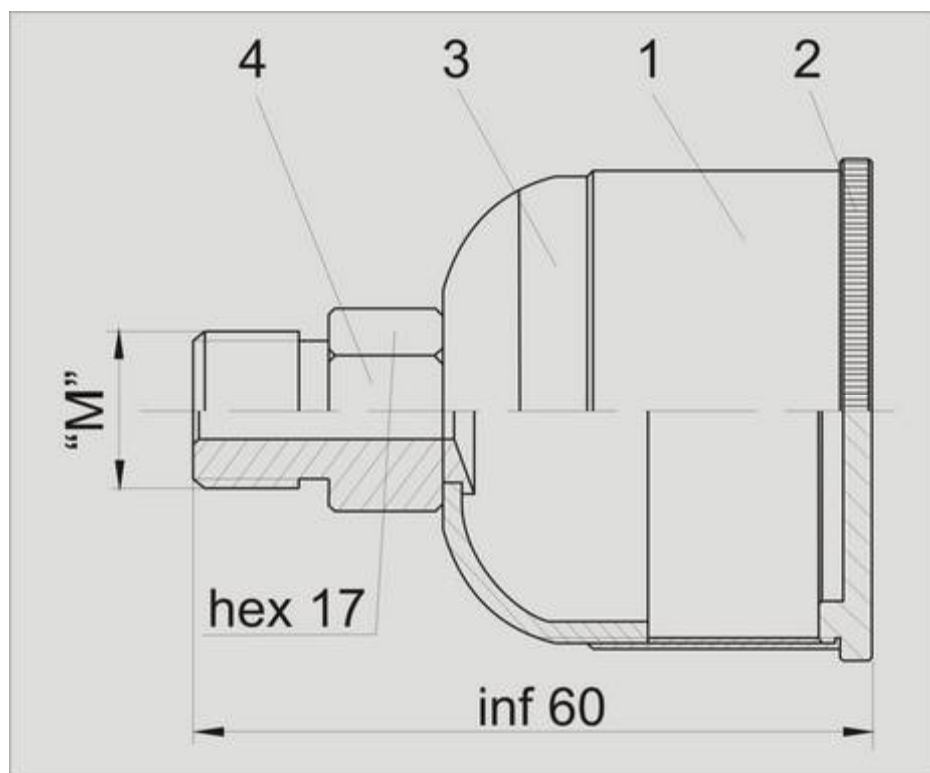
**GRESOR CU BILA TIP BAIONETA**  
**GB 00-00**



1. Bila  $\phi 6$
2. Resort
3. Stift
4. Corp gresor

# GRESOR CU PALNIE

## GP 00-00



| Nr. crt. | Cod gresor  | “M”        |
|----------|-------------|------------|
| 1.       | GP 00-00-01 | M 14 x 1,5 |
| 2.       | GP 00-00-02 | M 10 x 1,5 |
| 3.       | GP 00-00-03 | M 8 x 1,5  |

- 1. Corp superior
- 2. Capac
- 3. Corp inferior
- 4. Racord