

|                                                                                                             |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------|--|--------------------|--|
|                            |                                                                           | Modernizarea sistemului de pompare a țiteiului<br>din stația de pompare Potlogi, jud. Dâmbovița și<br>Modernizarea sistemului de pompare Ochiuri,<br>jud. Dâmbovița |                                        |  |                                  | ANEXA                                                     |  | Rev. 0             |  |
| <b>Specificatie tehnica robinete</b>                                                                        |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  | Pagina 1 din 2                                            |  |                    |  |
|                                                                                                             |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| NR. PROIECT: B.031.007                                                                                      |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| NUME PROIECT: Modernizarea sistemului de pompare din stația de pompare a țiteiului Potlogi - jud. Dâmbovița |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| FABRICANT                                                                                                   |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 1                                                                                                           | Grupa de fluid conform PED:                                               |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 2                                                                                                           | Conditii speciale:                                                        |                                                                                                                                                                     | No / Nu                                |                                                                                    | x                                | CO2                                                       |  | H2S Sour Service   |  |
| 3                                                                                                           | Locatie:                                                                  |                                                                                                                                                                     | Interior / Interior                    |                                                                                    |                                  | Exterior / Exterior                                       |  | x                  |  |
| 4                                                                                                           | Orientare:                                                                |                                                                                                                                                                     | Vertical / Vertical                    |                                                                                    | x                                | Horizontal / Orizontal                                    |  | x                  |  |
| 5                                                                                                           | <b>DATE DE OPERARE</b>                                                    |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 6                                                                                                           | Presiune nominala                                                         |                                                                                                                                                                     |                                        |                                                                                    |                                  | [barg]                                                    |  | Nota 3/Tablelul T1 |  |
| 7                                                                                                           | Presiune max. operare@temperatura maxima                                  |                                                                                                                                                                     |                                        |                                                                                    |                                  | [barg@°C]                                                 |  | 25/70              |  |
| 8                                                                                                           | Presiune max. operare@temperatura minima                                  |                                                                                                                                                                     |                                        |                                                                                    |                                  | [barg@°C]                                                 |  | 25/ -29            |  |
| 9                                                                                                           | Fluid vehiculat & tip:                                                    |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  | Nota 3/Tablelul T1 |  |
| 10                                                                                                          | <b>DESCRIERE</b>                                                          |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 11                                                                                                          | nominal (DN)                                                              |                                                                                                                                                                     | Nota 3/Tablelul T1                     |                                                                                    |                                  |                                                           |  |                    |  |
| 12                                                                                                          | Tip corp                                                                  |                                                                                                                                                                     | Drept                                  |                                                                                    | x                                | De colt                                                   |  | Inclinat           |  |
| 13                                                                                                          | Tija                                                                      |                                                                                                                                                                     | Ascendentă                             |                                                                                    | x                                | Neascendentă                                              |  | Filet exterior     |  |
| 14                                                                                                          | Roata                                                                     |                                                                                                                                                                     | Ascendentă                             |                                                                                    |                                  | Neascendentă                                              |  | x                  |  |
| 15                                                                                                          | Tip Capac                                                                 |                                                                                                                                                                     | Cu flansa                              |                                                                                    | x                                | Filetat                                                   |  | x                  |  |
| 16                                                                                                          | Actionare pentru robinet retinere cu disc                                 |                                                                                                                                                                     | Oscilare                               |                                                                                    | x                                | Amortizare                                                |  | x                  |  |
| 17                                                                                                          | Etansare corp-capac                                                       |                                                                                                                                                                     | Plana cu umar                          |                                                                                    |                                  | Prag&Adincitura                                           |  | X                  |  |
|                                                                                                             |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  | Canal&Pana                                                |  | Inel               |  |
| 18                                                                                                          | Tip presetupa                                                             |                                                                                                                                                                     | Fixata prin prezoane                   |                                                                                    | x                                | Presetupa filetata                                        |  | x                  |  |
| 19                                                                                                          | Robinet sertar                                                            |                                                                                                                                                                     | Pana rigida                            |                                                                                    |                                  | Pana flexibila                                            |  | x                  |  |
|                                                                                                             |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  | Sertar paralel                                            |  | x                  |  |
| 20                                                                                                          | Robinet ventil                                                            |                                                                                                                                                                     | conic                                  |                                                                                    |                                  | Sferic                                                    |  | x                  |  |
|                                                                                                             |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  | Ac                                                        |  | Godevilabil        |  |
| 21                                                                                                          | Robinet sfera                                                             |                                                                                                                                                                     | Trecere completa                       |                                                                                    | X                                | Godevilabil                                               |  | x                  |  |
| 22                                                                                                          | Retinere cu clapeta                                                       |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 23                                                                                                          | Robinet fluture                                                           |                                                                                                                                                                     | Centric                                |                                                                                    |                                  | Excentric                                                 |  |                    |  |
| 24                                                                                                          | Cu manta de incalzire                                                     |                                                                                                                                                                     | Da                                     |                                                                                    |                                  | Nu                                                        |  | X                  |  |
| 25                                                                                                          | <b>MATERIALE</b>                                                          |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 26                                                                                                          | Corp si capac                                                             |                                                                                                                                                                     | Nota 6/Tablelul T1                     |                                                                                    |                                  |                                                           |  |                    |  |
| 27                                                                                                          | Interioare                                                                |                                                                                                                                                                     | Nota 6/Tablelul T1                     |                                                                                    |                                  |                                                           |  |                    |  |
| 28                                                                                                          | Garnitura capacului & etansare presetupa                                  |                                                                                                                                                                     | Grafit cu insertie                     |                                                                                    |                                  |                                                           |  |                    |  |
| 29                                                                                                          | Altele                                                                    |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 30                                                                                                          | Cerere test materiale                                                     |                                                                                                                                                                     | Yes / Da                               |                                                                                    | x                                | No / Nu                                                   |  |                    |  |
| 31                                                                                                          | Test rezistenta                                                           |                                                                                                                                                                     | Yes / Da                               |                                                                                    | x                                | No / Nu                                                   |  |                    |  |
| 32                                                                                                          | IMPACT TEST@MIN.OP.TEMPERATURE<br>Testul Charpy@Temperatura minima de op. |                                                                                                                                                                     | Yes / Da                               |                                                                                    | x                                | No / Nu                                                   |  |                    |  |
| 33                                                                                                          | Analiza chimica                                                           |                                                                                                                                                                     | Yes / Da                               |                                                                                    | x                                | No / Nu                                                   |  |                    |  |
| 34                                                                                                          |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  | SR EN 12516-1+A1                                          |  | x                  |  |
| 35                                                                                                          | Control nedistructiv pentru Corp & Capac                                  |                                                                                                                                                                     |                                        |                                                                                    |                                  | SR EN 14141                                               |  |                    |  |
| 36                                                                                                          | <b>CAPETE</b>                                                             |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 37                                                                                                          | Capete pentru sudare                                                      |                                                                                                                                                                     | Socket                                 |                                                                                    | Extremitate pt sudare cap la cap |                                                           |  |                    |  |
| 38                                                                                                          | Mufe filetate                                                             |                                                                                                                                                                     | Da                                     |                                                                                    | Nu                               |                                                           |  |                    |  |
| 39                                                                                                          |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 40                                                                                                          | Flanse, suprafata etansare                                                |                                                                                                                                                                     | Raised face (RF)<br>Plana cu umar (B2) |                                                                                    | x                                | Ring joint (RJ)<br>Cu sant pt garnituri inelare met. (SI) |  |                    |  |
| 41                                                                                                          | SR EN 1092-1                                                              |                                                                                                                                                                     | x                                      |                                                                                    |                                  |                                                           |  |                    |  |
| 42                                                                                                          | SR ISO 7005                                                               |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 43                                                                                                          | ASME B16.5                                                                |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 44                                                                                                          |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 45                                                                                                          | <b>RACORDURI AUXILIARE</b>                                                |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 46                                                                                                          |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 47                                                                                                          | By pass                                                                   |                                                                                                                                                                     | Gresor                                 |                                                                                    |                                  |                                                           |  |                    |  |
| 48                                                                                                          | Scurgere                                                                  |                                                                                                                                                                     | Supapa siguranta                       |                                                                                    |                                  |                                                           |  |                    |  |
| 49                                                                                                          | Aerisire                                                                  |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 50                                                                                                          |                                                                           |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |
| 51                                                                                                          | Altele                                                                    |                                                                                                                                                                     |                                        |                                                                                    |                                  |                                                           |  |                    |  |

|                                                                                          | Modernizarea sistemului de pompare a țigeliului din stația de pompare Potlogi, jud. Dâmbovița și Modernizarea sistemului de pompare Ochiuri, jud. Dâmbovița                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | ANEXA                                                                                                                            | Rev. 0                                                           |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------|-----------------------------|-------------------|-----------------|----------------------------------------------------|-------------------|--------|----------------------------------------|------------|------------------------------|-------|------|-----------------------------|-----------|--------------------|-----------------------------|----------------------------------|-------|------|-------------------------------------------------------|--------------------------------|--------------------|-----------------------------|---------------------------------|-------|-------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------|-----------------------------|----------------------------------|-------|------|--------------------------------------------------------|--------------------------------|--------------------|-----------------------------|---------------------------------|-------|-------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------|-----------------------------|------------------------------|-------|-------|-------------------------|---------------|--------------------|-----------------------------|----------------------------|-------|------|-----------------------------|-----------|--------------------|-----------------------------|
| Specificatie tehnica robinete                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   | Pagina                                                                                                                           | 2 din 2                                                          |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
|                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| NR. PROIECT: B.031.007                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| NUME PROIECT: Modernizarea sistemului de pompare a țigeliului din stația de pompare Potlogi, jud. Dâmbovița și Modernizarea sistemului de pompare Ochiuri, jud. Dâmbovița |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| FABRICANT:                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 52                                                                                                                                                                        | ACTIONARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 53                                                                                                                                                                        | a) MANUALA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 54                                                                                                                                                                        | Cu mecanism actionare cu reductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 55                                                                                                                                                                        | Mecanic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cu levier                                                                         |                                                                                                                                  | Cu roata                                                         |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 56                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  | x                                                                |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 57                                                                                                                                                                        | Dispozitiv de blocare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Da                                                                                | x                                                                                                                                | No / Nu                                                          |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 58                                                                                                                                                                        | b)AUTOMATA*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 59                                                                                                                                                                        | Electric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Da                                                                                |                                                                                                                                  | No / Nu                                                          |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 60                                                                                                                                                                        | Hidraulica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Da                                                                                |                                                                                                                                  | No / Nu                                                          |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 61                                                                                                                                                                        | Pneumatica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Da                                                                                |                                                                                                                                  | No / Nu                                                          |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 62                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 63                                                                                                                                                                        | * Pentru actionare automata exista data sheet separat !                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 64                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 65                                                                                                                                                                        | CONDITII TEHNICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 66                                                                                                                                                                        | Standard, Code / Standard, Cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 67                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 68                                                                                                                                                                        | SR EN 1984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | X                                                                                 |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 69                                                                                                                                                                        | SR EN 1983                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | X                                                                                 | SR EN ISO 15761                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 70                                                                                                                                                                        | SR EN 558                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | x                                                                                 | API 600                                                                                                                          | SR EN ISO 5211                                                   |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 71                                                                                                                                                                        | SR EN ISO 17292                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   | API 602                                                                                                                          | SR EN 1171                                                       |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 72                                                                                                                                                                        | SR EN 13709                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X                                                                                 | API 609                                                                                                                          | SR EN ISO 10497                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 73                                                                                                                                                                        | SR EN 16767                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X                                                                                 | SR ISO 6002                                                                                                                      | SR ISO 7121                                                      |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 74                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 75                                                                                                                                                                        | INCERCARI, INSPECTII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 76                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 77                                                                                                                                                                        | Standard, Code / Standard, Cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 78                                                                                                                                                                        | SR EN 12266-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | x                                                                                 | SR EN 12516-4+A1                                                                                                                 |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 79                                                                                                                                                                        | SR EN 12266-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | x                                                                                 |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 80                                                                                                                                                                        | SR EN 12570                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 81                                                                                                                                                                        | SR EN 14141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | x                                                                                 |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 82                                                                                                                                                                        | SR EN 12516-1/2/3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 83                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 84                                                                                                                                                                        | OBSERVATII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 85                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 86                                                                                                                                                                        | 1. Nu vor fi utilizate tip Wafer sau tip Lug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 87                                                                                                                                                                        | 2. Dimensiunile fata la fata vor fi in conformitate cu SR EN 558, preferabil Serie 26.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 88                                                                                                                                                                        | 3. Tabelul T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 89                                                                                                                                                                        | <table><tr><th>Conducta / Sistem</th><th>Fluid vehiculat</th><th>T<sub>max</sub>[ °C]/<br/>P<sub>max</sub>[barg]</th><th>TIP robinet PN/DN</th><th>Capete</th><th>Material corp si<br/>capac<br/>( Nota 5)</th><th>Interioare</th></tr><tr><td>CNP-250-CRU-200-<br/>25OC3-ET</td><td>Titei</td><td>70/8</td><td>1.Bila, filetat, PN25, DN50</td><td>1.Filetat</td><td>P285 NH/<br/>G20Mn5</td><td>Trim 12 (18Cr-10Ni-<br/>2Mo)</td></tr><tr><td>CNP-250/100-CRU-201-<br/>25OC3-ET</td><td>Titei</td><td>70/8</td><td>1.Sertar, B2 PN25, DN250<br/>2.Ventil, B2, PN40, DN 25</td><td>1.Flansat, B2<br/>2.Flansat, B2</td><td>P285 NH/<br/>G20Mn5</td><td>Trim 12 (18Cr-10Ni-<br/>2Mo)</td></tr><tr><td>CNP-200/80-CRU-202-<br/>63OC3-ET</td><td>Titei</td><td>70/25</td><td>1.Retinere cu clapeta, B2,<br/>PN63, DN 200<br/>2.Sertar, B2, PN63, DN200<br/>3.Bila, B2, PN 63, DN50<br/>4.Ventil, B2, PN100, DN25</td><td>1.Flansat, B2<br/>2.Flansat, B2<br/>3.Flansat, B2<br/>4.Flansat, B2</td><td>P285 NH/<br/>G20Mn5</td><td>Trim 12 (18Cr-10Ni-<br/>2Mo)</td></tr><tr><td>CNP-250/100-CRU-203-<br/>25OC3-ET</td><td>Titei</td><td>70/8</td><td>1.Sertar, B2, PN25, DN 250<br/>2.Ventil, B2, PN40, DN25</td><td>1.Flansat, B2<br/>2.Flansat, B2</td><td>P285 NH/<br/>G20Mn5</td><td>Trim 12 (18Cr-10Ni-<br/>2Mo)</td></tr><tr><td>CNP-200/80-CRU-204-<br/>63OC3-ET</td><td>Titei</td><td>70/25</td><td>1.Retinere cu clapeta, B2,<br/>PN63, DN 200<br/>2.Sertar, B2, PN63, DN 200<br/>3.Bila, B2, PN 63, DN50<br/>4.Ventil, B2, PN100, DN25</td><td>1.Flansat, B2<br/>2.Flansat, B2<br/>3.Flansat, B2<br/>4.Flansat, B2</td><td>P285 NH/<br/>G20Mn5</td><td>Trim 12 (18Cr-10Ni-<br/>2Mo)</td></tr><tr><td>CNP-200-CRU-205-<br/>63OC3-ET</td><td>Titei</td><td>70/25</td><td>1.Bila, B2, PN 63, DN50</td><td>1.Flansat, B2</td><td>P285 NH/<br/>G20Mn5</td><td>Trim 12 (18Cr-10Ni-<br/>2Mo)</td></tr><tr><td>CNP-50-CRU-206-25OC3<br/>VP</td><td>Titei</td><td>70/8</td><td>1.Bila,filetat, PN 25, DN50</td><td>1.Filetat</td><td>P285 NH/<br/>G20Mn5</td><td>Trim 12 (18Cr-10Ni-<br/>2Mo)</td></tr></table> |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             | Conducta / Sistem | Fluid vehiculat | T <sub>max</sub> [ °C]/<br>P <sub>max</sub> [barg] | TIP robinet PN/DN | Capete | Material corp si<br>capac<br>( Nota 5) | Interioare | CNP-250-CRU-200-<br>25OC3-ET | Titei | 70/8 | 1.Bila, filetat, PN25, DN50 | 1.Filetat | P285 NH/<br>G20Mn5 | Trim 12 (18Cr-10Ni-<br>2Mo) | CNP-250/100-CRU-201-<br>25OC3-ET | Titei | 70/8 | 1.Sertar, B2 PN25, DN250<br>2.Ventil, B2, PN40, DN 25 | 1.Flansat, B2<br>2.Flansat, B2 | P285 NH/<br>G20Mn5 | Trim 12 (18Cr-10Ni-<br>2Mo) | CNP-200/80-CRU-202-<br>63OC3-ET | Titei | 70/25 | 1.Retinere cu clapeta, B2,<br>PN63, DN 200<br>2.Sertar, B2, PN63, DN200<br>3.Bila, B2, PN 63, DN50<br>4.Ventil, B2, PN100, DN25 | 1.Flansat, B2<br>2.Flansat, B2<br>3.Flansat, B2<br>4.Flansat, B2 | P285 NH/<br>G20Mn5 | Trim 12 (18Cr-10Ni-<br>2Mo) | CNP-250/100-CRU-203-<br>25OC3-ET | Titei | 70/8 | 1.Sertar, B2, PN25, DN 250<br>2.Ventil, B2, PN40, DN25 | 1.Flansat, B2<br>2.Flansat, B2 | P285 NH/<br>G20Mn5 | Trim 12 (18Cr-10Ni-<br>2Mo) | CNP-200/80-CRU-204-<br>63OC3-ET | Titei | 70/25 | 1.Retinere cu clapeta, B2,<br>PN63, DN 200<br>2.Sertar, B2, PN63, DN 200<br>3.Bila, B2, PN 63, DN50<br>4.Ventil, B2, PN100, DN25 | 1.Flansat, B2<br>2.Flansat, B2<br>3.Flansat, B2<br>4.Flansat, B2 | P285 NH/<br>G20Mn5 | Trim 12 (18Cr-10Ni-<br>2Mo) | CNP-200-CRU-205-<br>63OC3-ET | Titei | 70/25 | 1.Bila, B2, PN 63, DN50 | 1.Flansat, B2 | P285 NH/<br>G20Mn5 | Trim 12 (18Cr-10Ni-<br>2Mo) | CNP-50-CRU-206-25OC3<br>VP | Titei | 70/8 | 1.Bila,filetat, PN 25, DN50 | 1.Filetat | P285 NH/<br>G20Mn5 | Trim 12 (18Cr-10Ni-<br>2Mo) |
| Conducta / Sistem                                                                                                                                                         | Fluid vehiculat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | T <sub>max</sub> [ °C]/<br>P <sub>max</sub> [barg]                                | TIP robinet PN/DN                                                                                                                | Capete                                                           | Material corp si<br>capac<br>( Nota 5) | Interioare                  |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| CNP-250-CRU-200-<br>25OC3-ET                                                                                                                                              | Titei                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70/8                                                                              | 1.Bila, filetat, PN25, DN50                                                                                                      | 1.Filetat                                                        | P285 NH/<br>G20Mn5                     | Trim 12 (18Cr-10Ni-<br>2Mo) |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| CNP-250/100-CRU-201-<br>25OC3-ET                                                                                                                                          | Titei                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70/8                                                                              | 1.Sertar, B2 PN25, DN250<br>2.Ventil, B2, PN40, DN 25                                                                            | 1.Flansat, B2<br>2.Flansat, B2                                   | P285 NH/<br>G20Mn5                     | Trim 12 (18Cr-10Ni-<br>2Mo) |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| CNP-200/80-CRU-202-<br>63OC3-ET                                                                                                                                           | Titei                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70/25                                                                             | 1.Retinere cu clapeta, B2,<br>PN63, DN 200<br>2.Sertar, B2, PN63, DN200<br>3.Bila, B2, PN 63, DN50<br>4.Ventil, B2, PN100, DN25  | 1.Flansat, B2<br>2.Flansat, B2<br>3.Flansat, B2<br>4.Flansat, B2 | P285 NH/<br>G20Mn5                     | Trim 12 (18Cr-10Ni-<br>2Mo) |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| CNP-250/100-CRU-203-<br>25OC3-ET                                                                                                                                          | Titei                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70/8                                                                              | 1.Sertar, B2, PN25, DN 250<br>2.Ventil, B2, PN40, DN25                                                                           | 1.Flansat, B2<br>2.Flansat, B2                                   | P285 NH/<br>G20Mn5                     | Trim 12 (18Cr-10Ni-<br>2Mo) |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| CNP-200/80-CRU-204-<br>63OC3-ET                                                                                                                                           | Titei                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70/25                                                                             | 1.Retinere cu clapeta, B2,<br>PN63, DN 200<br>2.Sertar, B2, PN63, DN 200<br>3.Bila, B2, PN 63, DN50<br>4.Ventil, B2, PN100, DN25 | 1.Flansat, B2<br>2.Flansat, B2<br>3.Flansat, B2<br>4.Flansat, B2 | P285 NH/<br>G20Mn5                     | Trim 12 (18Cr-10Ni-<br>2Mo) |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| CNP-200-CRU-205-<br>63OC3-ET                                                                                                                                              | Titei                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70/25                                                                             | 1.Bila, B2, PN 63, DN50                                                                                                          | 1.Flansat, B2                                                    | P285 NH/<br>G20Mn5                     | Trim 12 (18Cr-10Ni-<br>2Mo) |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| CNP-50-CRU-206-25OC3<br>VP                                                                                                                                                | Titei                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70/8                                                                              | 1.Bila,filetat, PN 25, DN50                                                                                                      | 1.Filetat                                                        | P285 NH/<br>G20Mn5                     | Trim 12 (18Cr-10Ni-<br>2Mo) |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 90                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 91                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 92                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 93                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 94                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 95                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 96                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 97                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 98                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 99                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 100                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 101                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 102                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 103                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 104                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 105                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 106                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 107                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 108                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 109                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 110                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 111                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 112                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 113                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 114                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 115                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 116                                                                                                                                                                       | 4. Robinetii vor fi marcati CE conf. PED si insotiti de certificat de calitate tip 3.1 conform EN 10204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 117                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 118                                                                                                                                                                       | 5. Pentru DN mai mare sau egal cu DN50 materialul trebuie să fie G20Mn5 iar pentru DN mai mic de DN50 materialul trebuie să fie P285NH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |
| 119                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                                                                  |                                                                  |                                        |                             |                   |                 |                                                    |                   |        |                                        |            |                              |       |      |                             |           |                    |                             |                                  |       |      |                                                       |                                |                    |                             |                                 |       |       |                                                                                                                                 |                                                                  |                    |                             |                                  |       |      |                                                        |                                |                    |                             |                                 |       |       |                                                                                                                                  |                                                                  |                    |                             |                              |       |       |                         |               |                    |                             |                            |       |      |                             |           |                    |                             |