

## CARBON STEEL GLOBE VALVE WITH BELLOW PN40 ICP DIN 3202-1 F1

Carbon steel globe valve with bellow flanged PN40 for no corrosive fluids, steam, hydrocarbons and thermic fluid.  
Stainless steel bellow and stainless steel + graphite gasket.  
Anti-turn device to avoid the risk of torsion of bellows.  
Pressure equalizing plug in DN200  
Bolted bonnet and packing for an easy maintenance.  
Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22.

**Certificate**  
**3.1**



**Size :** DN15 to DN200  
**Connection :** Flanged PN40 RF  
**Min Temperature :** -29°C  
**Max Temperature :** +400°C  
**Max Pressure :** 40 bars  
**Specifications :** Non rising stem  
Stainless steel bellow  
Bolted bonnet and packing

**Materials :** Carbon steel EN 1.0619

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**SPECIFICATIONS :**

- Respect the flow direction indicated by the arrow
- Non rising stem
- Bolted bonnet and gland pack
- Stainless steel bellow
- Pressure equalizing plug in DN200
- Pressed seat in the body
- Anti-turn device to avoid the risk of torsion of bellows
- Flanges R.F. PN40
- RAL 5002 blue painting, 40μ thickness

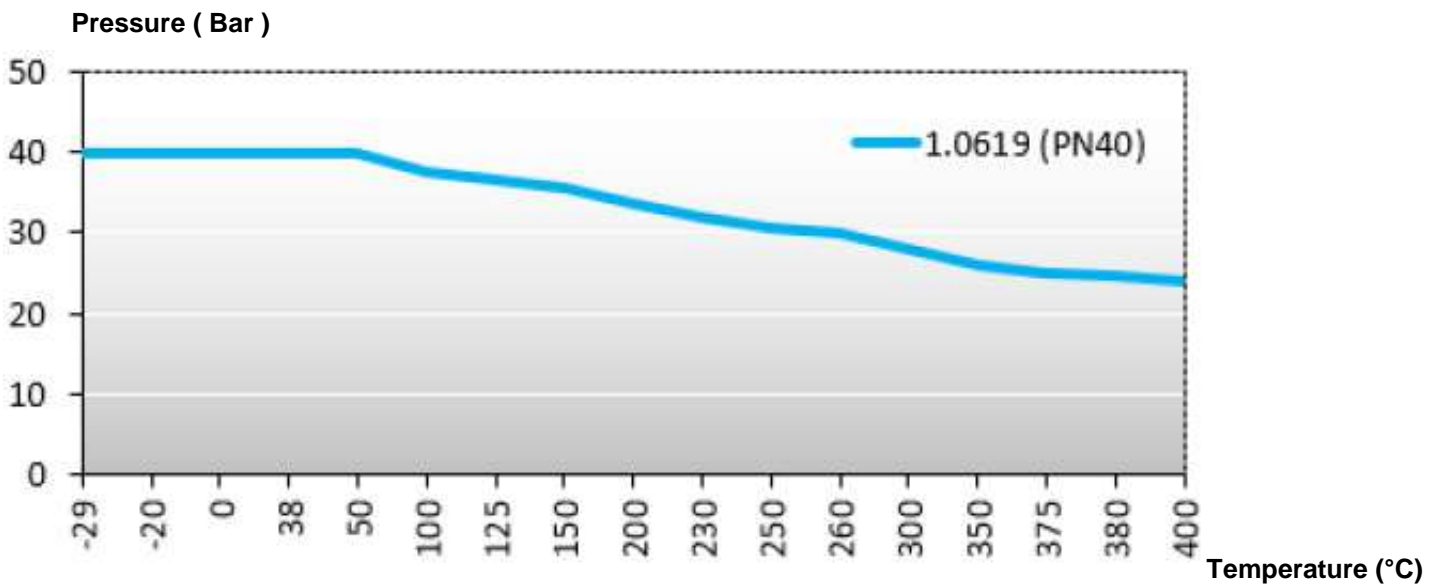
**USE:**

- No corrosive or no toxic fluids, steam, hydrocarbons, thermic fluid
- Min and max Temperature Ts : - 29°C to + 400°C
- Max Pressure Ps : 40 bars ( see graph under )
- Δp 20 bars max for DN125, 15 bars max for DN150, 19 bars max for DN200
- Keep greased the stem

**FLOW COEFFICIENT Kvs ( M3 / h ) :**

| DN           | 15  | 20 | 25 | 32 | 40 | 50 | 65 | 80  | 100 | 125 | 150 | 200 |
|--------------|-----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| Kvs ( m3/h ) | 3.8 | 7  | 10 | 19 | 35 | 43 | 60 | 110 | 146 | 210 | 300 | 670 |

**PRESSURE / TEMPERATURE GRAPH :**

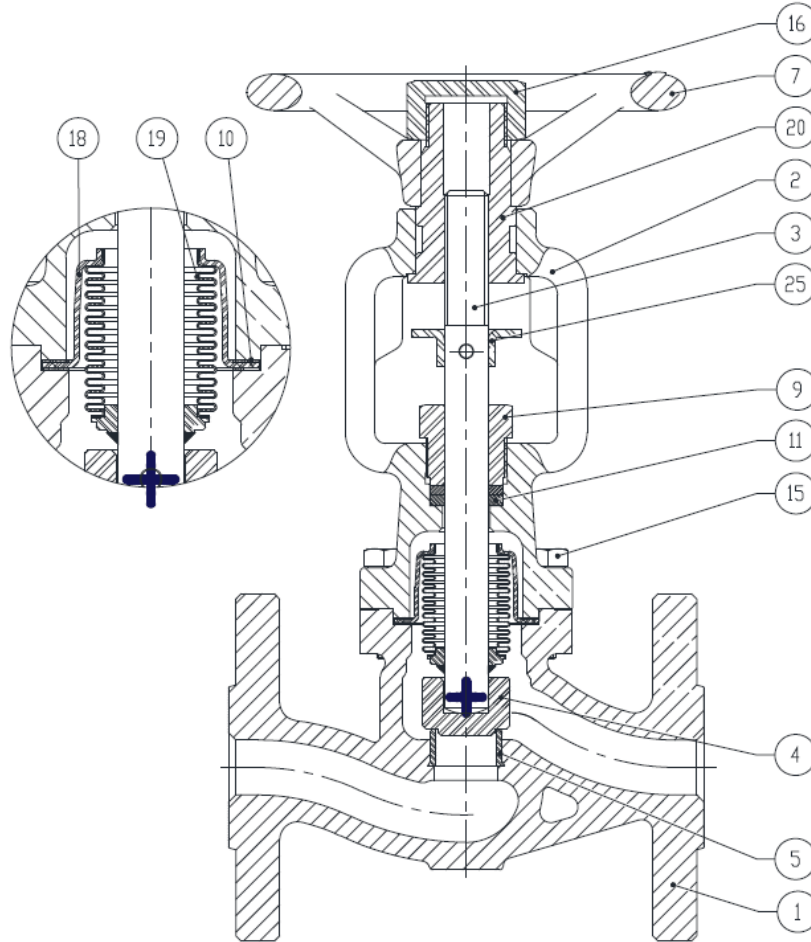


**RANGE :**

- Carbon steel globe valve with stainless steel bellow flanged R.F. PN40 from DN 15 to DN 200 Ref. 475

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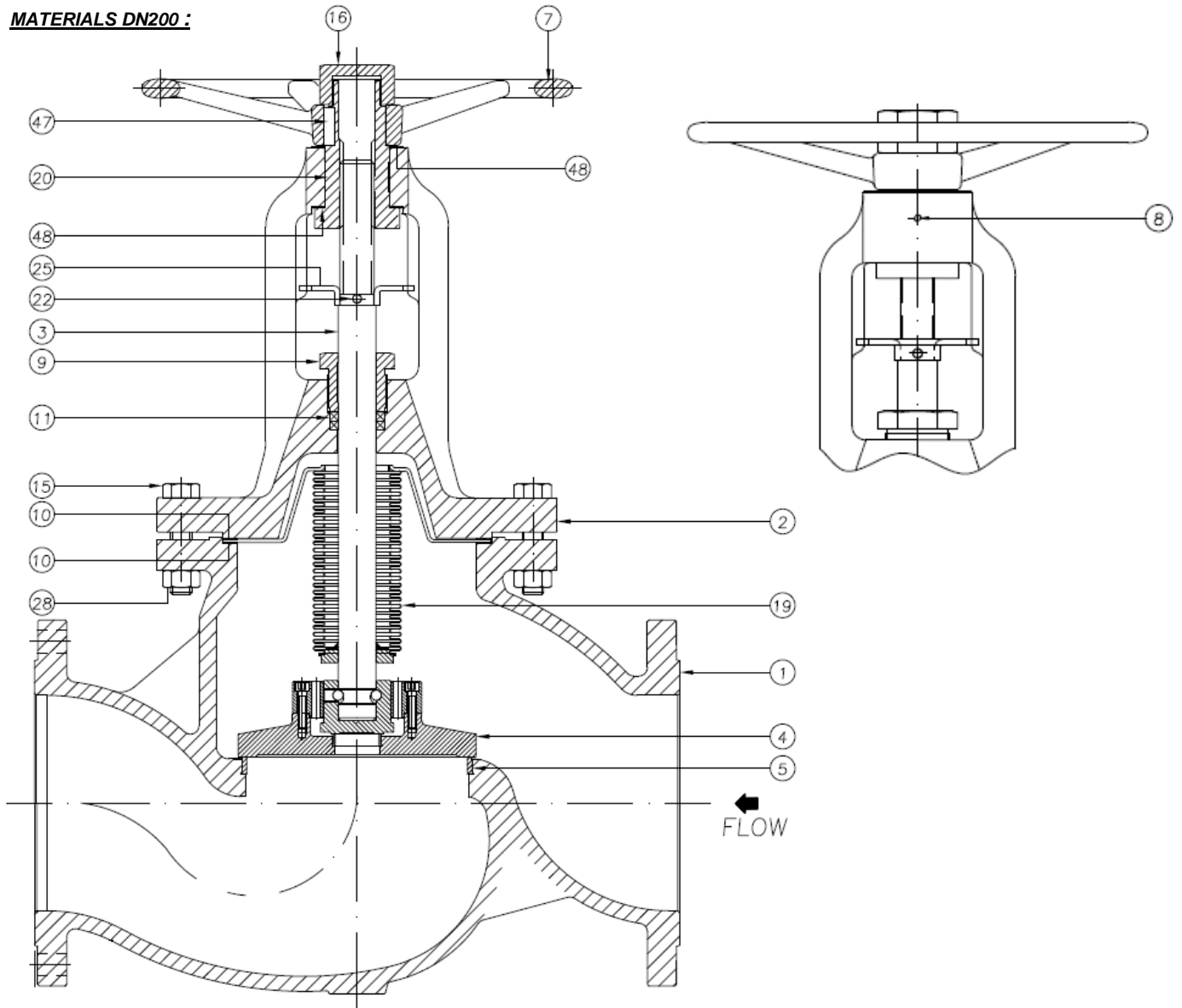
**MATERIALS DN15-150 :**



| Item | Designation      | Materials               |
|------|------------------|-------------------------|
| 1    | Body             | EN 1.0619               |
| 2    | Bonnet           |                         |
| 3    | Stem             | AISI 304 ( 1.4301 )     |
| 4    | Disc             | AISI 420 ( X20 Cr13 )   |
| 5    | Seat             | X4 CrNi 13 4 (CA6NM)    |
| 7    | Handwheel        | ASTM A216 WCB           |
| 9    | Gland            | Steel 1.1191 + ZP       |
| 10   | Gasket           | Graphite                |
| 11   | Packing          |                         |
| 15   | Screw            | A193 B7M                |
| 16   | Handwheel nut    | Steel 1.1191 + ZP       |
| 18   | Hood             | AISI 304 ( 1.4301 )     |
| 19   | Bellows          |                         |
| 20   | Threaded bushing | Steel 1.1191 +HT65+ ENP |
| 25   | Anti turn device | Steel S235 JR+ZP        |
|      | Lubricator       | Brass                   |

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**MATERIALS DN200 :**


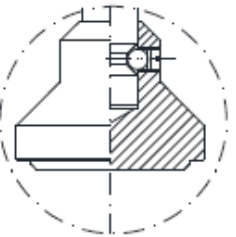
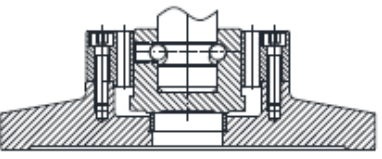

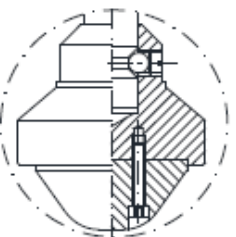
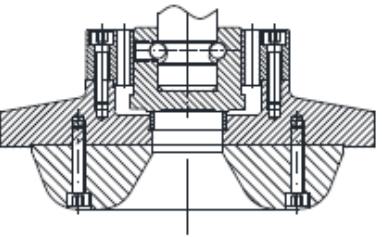
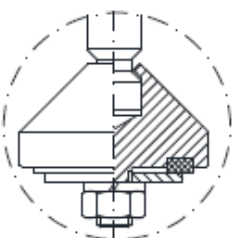
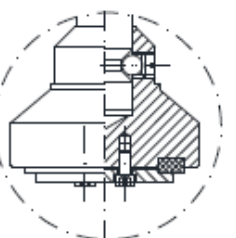
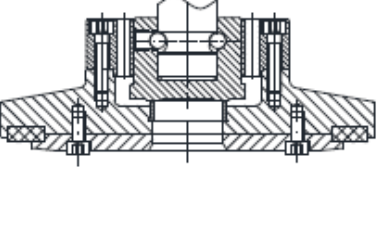
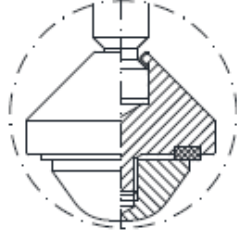
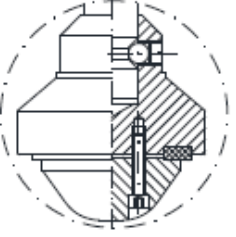
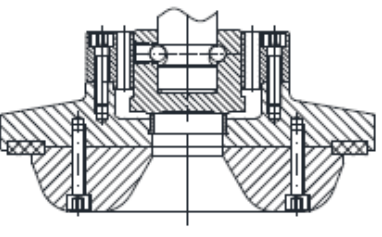


| Item | Designation  | Materials             |
|------|--------------|-----------------------|
| 1    | Body         | EN 1.0619             |
| 2    | Bonnet       |                       |
| 3    | Stem         | AISI 304 ( 1.4301 )   |
| 4    | Disc         | AISI 420 ( X20 Cr13 ) |
| 5    | Seat         | X4 CrNi 13 4 ( CA6NM) |
| 7    | Handwheel    | ASTM A216 WCB         |
| 8    | Grease nipp. | Steel                 |
| 9    | Gland nut    | Steel 1.1191 + ZP     |
| 10   | Gasket       | Graphite              |

| Item | Designation      | Materials           |
|------|------------------|---------------------|
| 11   | Packing          | Graphite            |
| 15   | Screw            | A193 B7M            |
| 16   | Handwheel nut    | EN 10087            |
| 19   | Bellow           | AISI 304 ( 1.4301 ) |
| 20   | Threaded bushing | EN 10087            |
| 22   | Pin              | Steel               |
| 25   | Anti turn device | EN 10025            |
| 28   | Nut              | A194 2HM            |
| 47   | Key              | Steel               |
| 48   | Washer           | Steel               |

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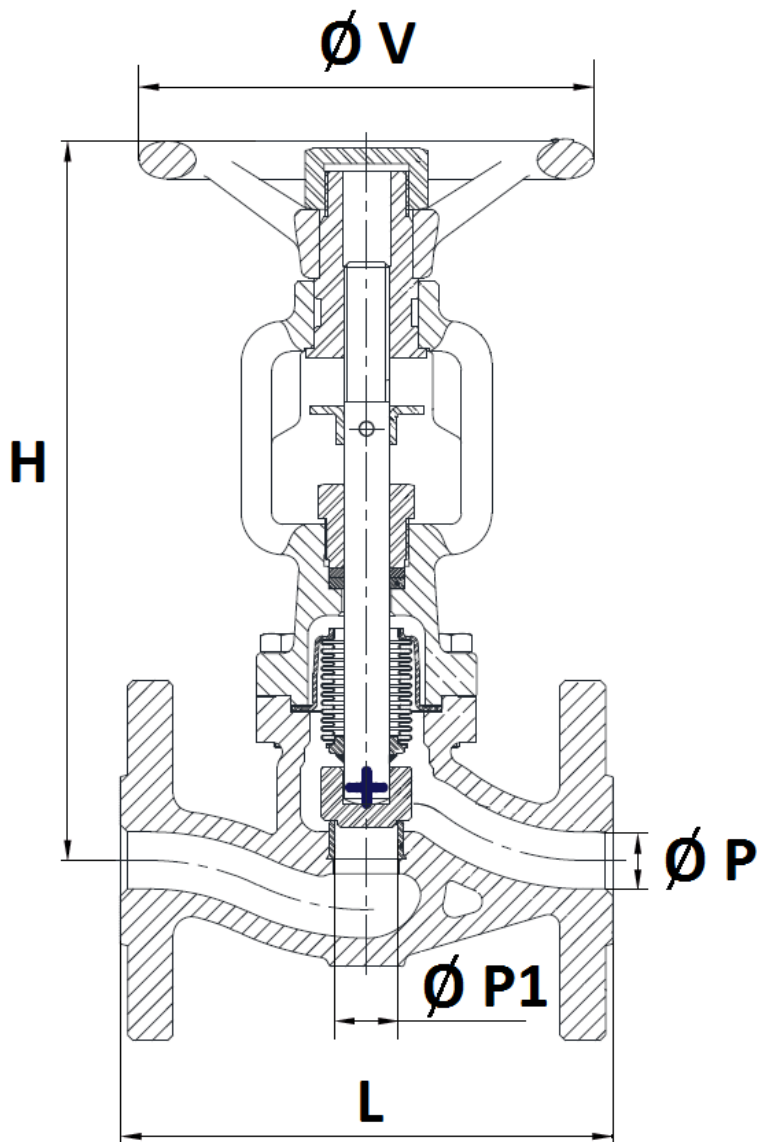
DISC OPTIONS :

| DN 15-65  | DN 80-150   | DN 200   |
|---|---|--|
| <b>STANDARD DISC</b>  |   |  |
|    |    |    |
| <b>OPTION A : THROTTLING PLUG*</b>  |   |  |
|   |   |   |
| <b>OPTION B : DISC WITH SOFT SEAT*</b>  |   |  |
|  |  |  |
| <b>OPTION C : THROTTLING PLUG + SOFT SEAT*</b>                                      |   |  |
|  |  |  |

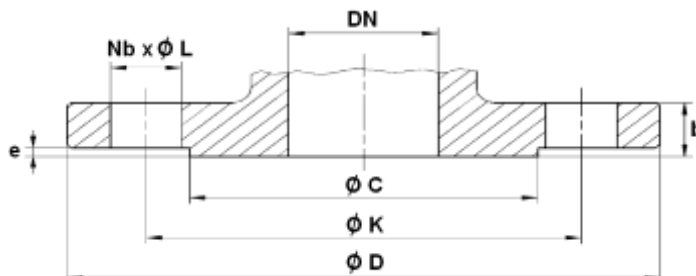
\* :ON REQUEST

**CARBON STEEL GLOBE VALVE WITH BELLOW PN40 ICP DIN 3202-1 F1**

**SIZE ( in mm ) :**



| DN          | 15     | 20     | 25     | 32     | 40     | 50     | 65     | 80     | 100    | 125    | 150    | 200    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L           | 130    | 150    | 160    | 180    | 200    | 230    | 290    | 310    | 350    | 400    | 480    | 600    |
| Ø P         | 15     | 20     | 25     | 32     | 40     | 50     | 65     | 80     | 100    | 125    | 150    | 200    |
| Ø P1        | 16.5   | 20.5   | 25.2   | 30     | 40.8   | 50.5   | 66     | 81     | 104.5  | 126    | 150.5  | 205    |
| H           | 190    | 195    | 220    | 219    | 256    | 265    | 328    | 341    | 376    | 488    | 531    | 685    |
| Ø V         | 120    |        | 140    |        | 180    |        | 200    |        | 250    | 400    |        |        |
| Weight (Kg) | 3.7    | 4.8    | 6.8    | 7.8    | 13     | 15.5   | 23     | 28     | 43     | 68     | 100    | 202    |
| Ref.        | 475015 | 475020 | 475025 | 475032 | 475040 | 475050 | 475065 | 475080 | 475100 | 475125 | 475150 | 475200 |

**CARBON STEEL GLOBE VALVE WITH BELLOW PN40 ICP DIN 3202-1 F1**
**FLANGES SIZE ( in mm ) :**


| DN       | 15     | 20     | 25     | 32     | 40     | 50     | 65     | 80     | 100    | 125    | 150    | 200     |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Ø C      | 45     | 58     | 68     | 78     | 88     | 102    | 122    | 138    | 162    | 188    | 218    | 285     |
| Ø D      | 95     | 105    | 115    | 140    | 150    | 165    | 185    | 200    | 235    | 270    | 300    | 375     |
| Ø K      | 65     | 75     | 85     | 100    | 110    | 125    | 145    | 160    | 190    | 220    | 250    | 320     |
| Nb x Ø L | 4 x 14 | 4 x 14 | 4 x 14 | 4 x 18 | 4 x 18 | 4 x 18 | 8 x 18 | 8 x 18 | 8 x 22 | 8 x 26 | 8 x 26 | 12 x 30 |
| b        | 16     | 18     | 18     | 18     | 18     | 20     | 22     | 24     | 24     | 26     | 28     | 34      |
| e        | 2      | 2      | 2      | 2      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3       |

**STANDARDS :**

- Manufacturer certified ISO 9001 :2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
  - DN15-25 : Article 4, §3 (SEP), no CE marking
  - DN32-100 : Risk Category II, CE1035 or CE0035 marking
  - DN125-200 : Risk Category III, CE1035 or CE0035 marking
- Certificate 3.1 on request
- Designing according to DIN 3840
- Marking according to EN 19
- Pressure Tests according to EN 12266-1, Rate A
- Length according to EN 558 series 1 ( DIN 3202-1 F1 )
- Flanges R.F. according to EN 1092-1 PN40
- ATEX Group II Category 2 G/2Dc Zone 1 & 21 Zone 2 & 22 ( optional marking ) according to directive 2014/34/EU

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