

## Gemini Valve B.V.

Zijperstraat 29, 1823CX Alkmaar  
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**GV706**



### 2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE BSP

2 pieces stainless steel ball valve DIN M3 with full bore for Chemical industries, petrochemical industries, hydraulic installation, heating, water distribution and compressed air.

Length according to EN 16722 Series M3 (DIN long pattern M3)

PTFE packing and PTFE filled with 15% Glass fiber seat for a temperature up to +180°C.

Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22 thanks to the antistatic device.



**Certificate**  
**3.1**



**LRQA**  
PED/2014/68/UE



**Size :** DN1/4" to DN4"

**Connection :** Female BSP

**Min Temperature :** -50°C

**Max Temperature :** +180°C

**Max Pressure :** 63 Bars (up to DN2")

**Specifications :** Long pattern DIN M3

Handle with locking device

Anti blow-out stem

ATEX

Full bore

**Materials :** Stainless Steel ASTM A351 CF8M

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#### SPECIFICATIONS :

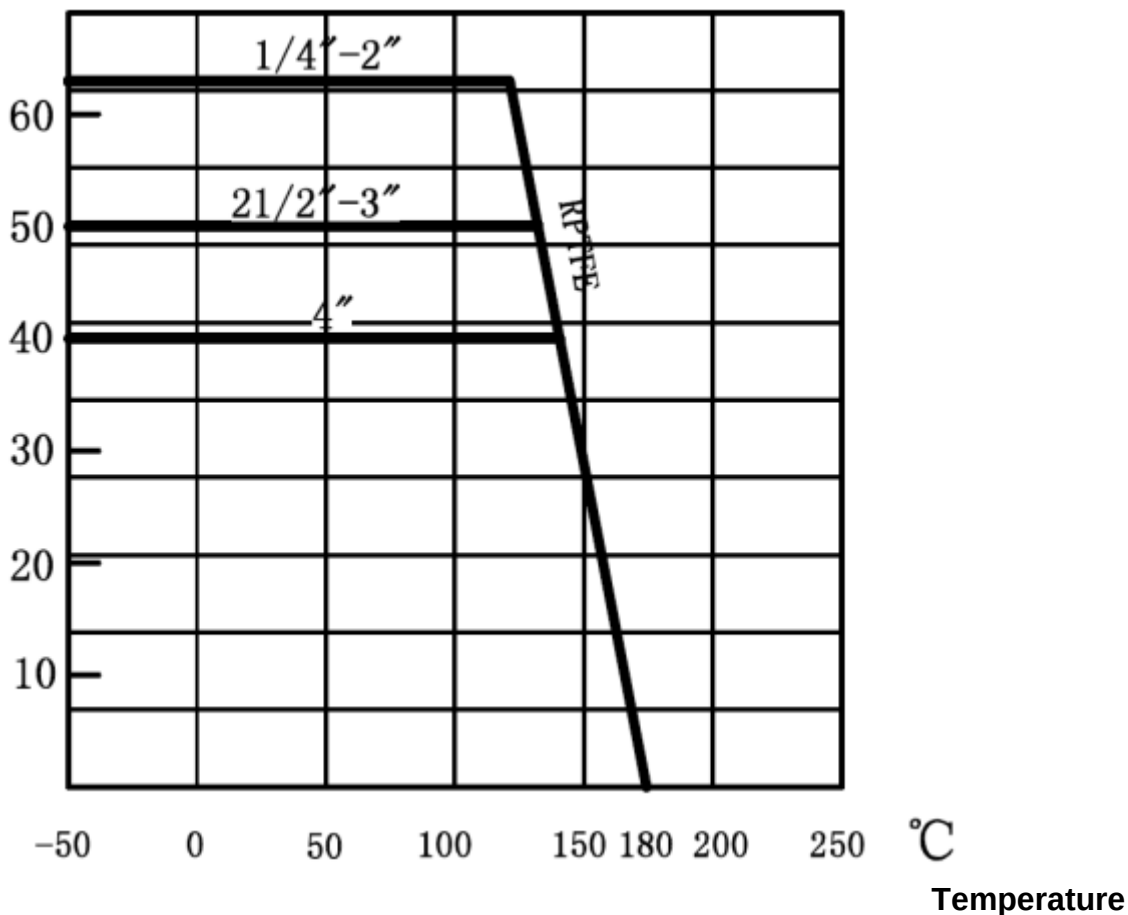
- Full bore
- Anti blow-out stem
- PTFE packing
- Locking device
- Solid ball
- With exhaust hole in the ball ( located in the top of the ball to avoid overpressure in it )
- 2 pieces type
- ATEX

#### USE :

- Chemical and pharmaceutical industries, petrochemical industries, hydraulic installation, compressed air
- Min and max Temperature Ts : -50°C to + 180°C
- Max Pressure Ps : 63 bars up to DN2", 50 bars from DN2"1/2 to 3" and 40 bars for DN4" ( see graph )

#### PRESSURE / TEMPERATURE GRAPH ( STEAM EXCLUDED ) :

Pressure (Bar)



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

| DN         | 1/4" | 3/8" | 1/2" | 3/4" | 1"   | 1"1/4 | 1"1/2 | 2"    | 2"1/2 | 3"    | 4"   |
|------------|------|------|------|------|------|-------|-------|-------|-------|-------|------|
| Kvs (m3/h) | 18.7 | 21.7 | 31.3 | 57.9 | 94.2 | 157.9 | 227.9 | 414.8 | 706.7 | 984.6 | 1590 |

#### TORQUE VALUES ( in Nm without safety coefficient ) :

| DN          | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1"1/4 | 1"1/2 | 2" | 2"1/2 | 3" | 4"  |
|-------------|------|------|------|------|----|-------|-------|----|-------|----|-----|
| Torque (Nm) | 5    | 5    | 7    | 10   | 18 | 28    | 40    | 50 | 70    | 90 | 100 |

#### RANGE :



- Stainless steel ball valve BSP threaded with red handle **Ref. 706** DN 1/4" to DN 4"



- Stainless steel ball valve BSP threaded with red butterfly handle **Ref. 7061** DN 1/4" to DN 1"



- Blue handle cover **Ref. 9830620 to 9830624** DN 1/4" to DN 3"



- AISI 304 red butterfly handle **Ref. 9830611 to 9830613** DN 1/4" to DN 1"

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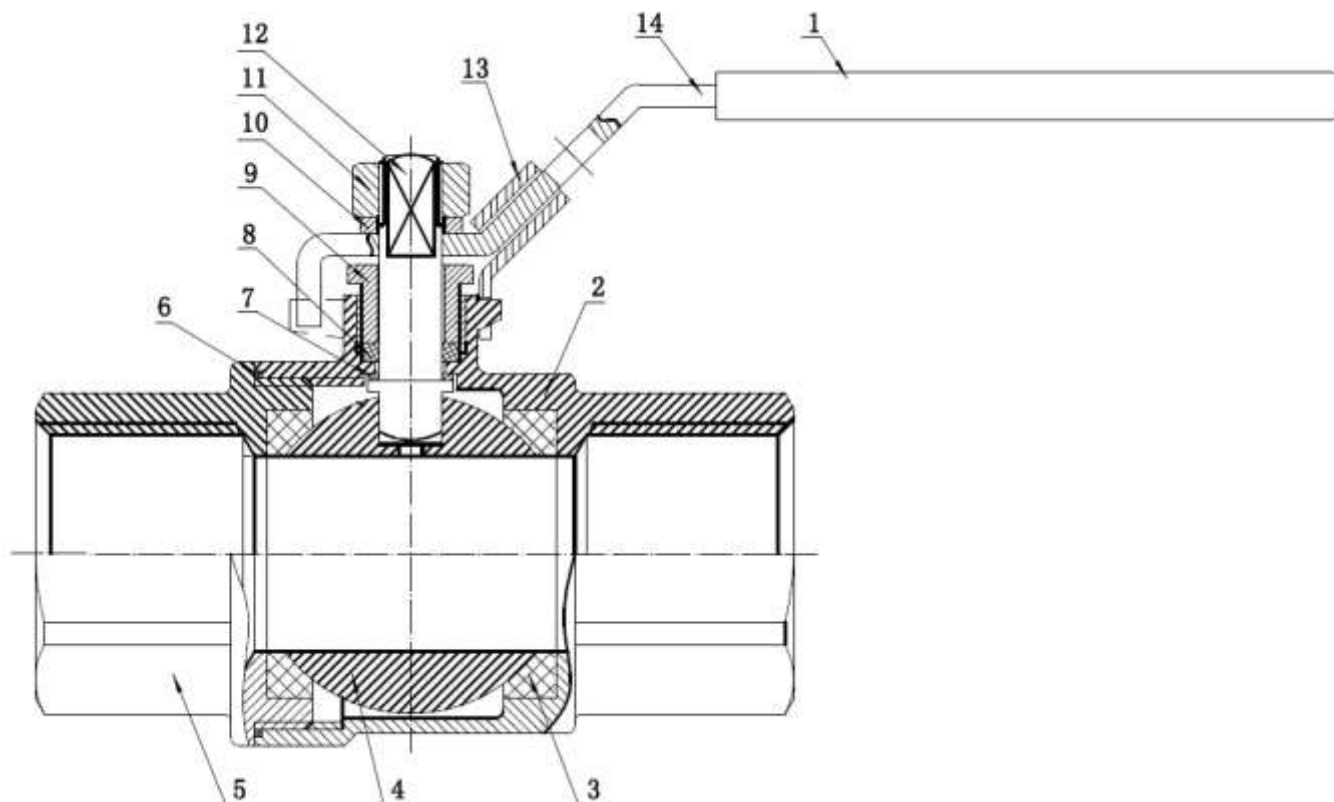
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#### MATERIALS :



| Item | Designation    | Materials                        |
|------|----------------|----------------------------------|
| 1    | Handle cover   | Plastic                          |
| 2    | Body           | ASTM A351 CF8M                   |
| 3    | Seat           | PTFE filled with 15% glass fiber |
| 4    | Ball           | AISI 316                         |
| 5    | Ends           | ASTM A351 CF8M                   |
| 6    | Body gasket    | PTFE                             |
| 7    | Gasket         | PTFE filled with carbon          |
| 8    | Packing        | PTFE                             |
| 9    | Packing nut    | AISI 304                         |
| 10   | Washer         |                                  |
| 11   | Handle nut     |                                  |
| 12   | Stem           | AISI 316                         |
| 13   | Locking device | AISI 304                         |
| 14   | Handle         |                                  |

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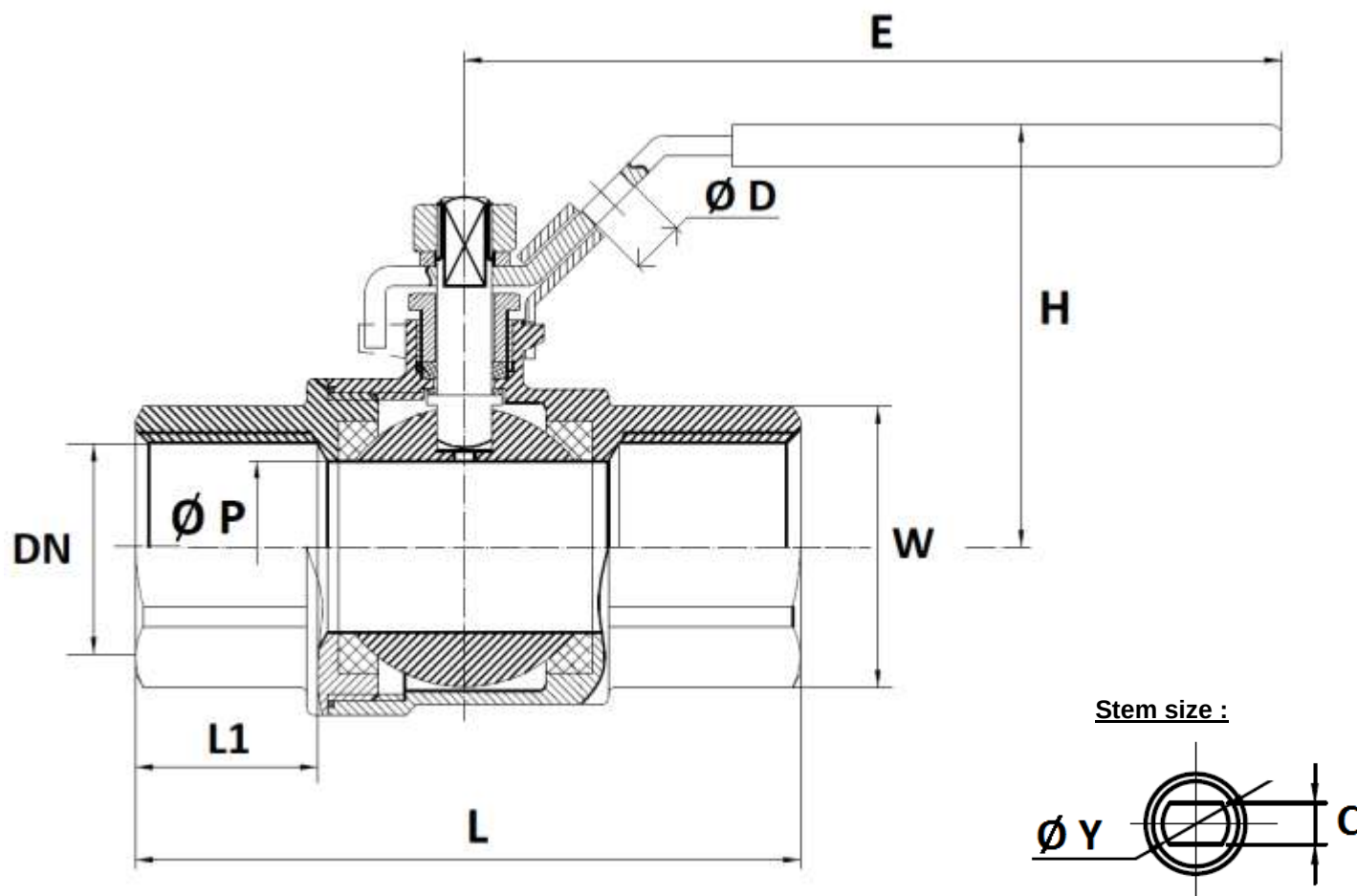
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**SIZE ( in mm ) :**



| DN             | 1/4"   | 3/8"   | 1/2"   | 3/4"   | 1"     | 1"1/4  | 1"1/2  | 2"     | 2"1/2  | 3"     | 4"     |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ø P            | 11.6   | 12.5   | 15     | 20     | 25     | 32     | 38     | 50     | 64     | 76     | 96     |
| L              | 50     | 60     | 75     | 80     | 90     | 110    | 120    | 140    | 185    | 205    | 240    |
| Ø D            | 6      |        | 7      |        |        |        |        |        |        |        |        |
| E              | 91.5   | 91.5   | 103    | 112.5  | 112.5  | 140    | 140    | 162    | 230    | 230    | 320    |
| H              | 48     | 48     | 52.5   | 59     | 62.5   | 74     | 77.5   | 92.5   | 118    | 127    | 171    |
| L1             | 17.8   | 17.8   | 20.5   | 22     | 22.5   | 30     | 30     | 32     | 46.3   | 49.5   | 49.5   |
| W (on flat)    | 18     | 21     | 25     | 30     | 37     | 46     | 52     | 65     | 82.5   | 97.5   | 126.5  |
| C              | 5      |        |        | 6      |        | 6.5    |        | 7.5    | 9.8    |        | 16     |
| Ø Y            | M8     |        |        |        |        | M10    |        | M12    | M14    |        | M20    |
| Weight (in Kg) | 0.17   | 0.19   | 0.29   | 0.39   | 0.58   | 0.99   | 1.36   | 2.5    | 4.82   | 8.64   | 17.3   |
| Ref.           | 706002 | 706003 | 706004 | 706005 | 706006 | 706007 | 706008 | 706009 | 706010 | 706011 | 706012 |

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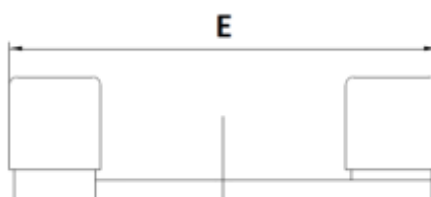
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### 2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE BSP

#### **BUTTERFLY HANDLE SIZE ( in mm ) :**



- **Ref. 983061 :**

| DN   | 1/4"    | 3/8" | 1/2"    | 3/4"    | 1" |
|------|---------|------|---------|---------|----|
| E    | 50      |      | 57.5    | 65      |    |
| Ref. | 9830611 |      | 9830612 | 9830613 |    |

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#### STANDARDS :

- Manufacturer certified ISO 9001 : 2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
  - DN1/4"-1" : Article 4, §3 (SEP), no CE marking
  - DN1"1/4-4" : Risk Category II, CE0038 or CE0343 marking
- Certificate 3.1 on request
- Pressure Tests according to EN 12266-1, Rate A
- Threaded ends BSP cylindrical according to ISO 228-1
- Length according to EN 16722 Series M3 ( DIN 3202 M3 )
- ATEX Group II Category 2 G/2Dc T3 Zone 1 & 21 Zone 2 & 22 ( optional marking )