

## SOLAR 2 PIECES BALL VALVE ATEX HIGH TEMPERATURE

2 pieces stainless steel ball valve high temperature with full bore for solar networks and high temperature.  
PTFE filled with 15% graphite packing and seat.  
Fugitive emission according to TA LUFT for an excellent tightness on the stem and to prevent external leakage.  
Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22 thanks to the antistatic device.



**Certificate**  
**3.1**



**Size :** DN1/4" to DN2"  
**Connection :** Female BSP  
**Min Temperature :** -20°C  
**Max Temperature :** +200°C  
**Max Pressure :** 63 Bars  
**Specifications :** TA LUFT  
Handle with locking device  
Anti blow-out stem  
ATEX  
Full bore

**Materials :** Stainless Steel EN 1.4408

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### SPECIFICATIONS :

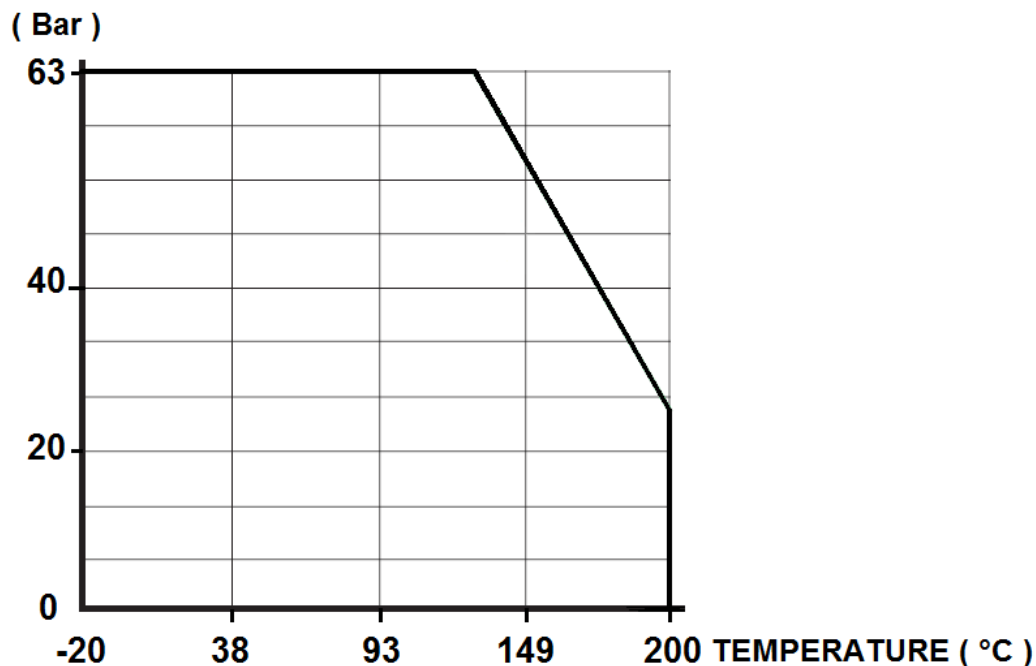
- Full bore
- Anti blow-out stem
- PTFE filled with 15% graphite seat
- Locking handle
- ATEX
- Double antistatic device
- Tightness according to TA LUFT
- 2 pieces type
- Solid ball

### USE :

- For solar use
- Steam : 11 bars maxi
- Min and max Temperatures Ts : -20°C to + 200°C
- Max Pressure Ps : 63 bars ( see graph )

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

#### PRESSURE



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

| DN           | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1"1/4 | 1"1/2 | 2"  |
|--------------|------|------|------|------|----|-------|-------|-----|
| Kvs ( m3/h ) | 19   | 22   | 34   | 62   | 98 | 170   | 247   | 427 |

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

| DN            | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1"1/4 | 1"1/2 | 2" |
|---------------|------|------|------|------|----|-------|-------|----|
| Torque ( Nm ) | 3.5  | 4    | 5.5  | 7.5  | 11 | 15    | 20    | 40 |

**RANGE :**

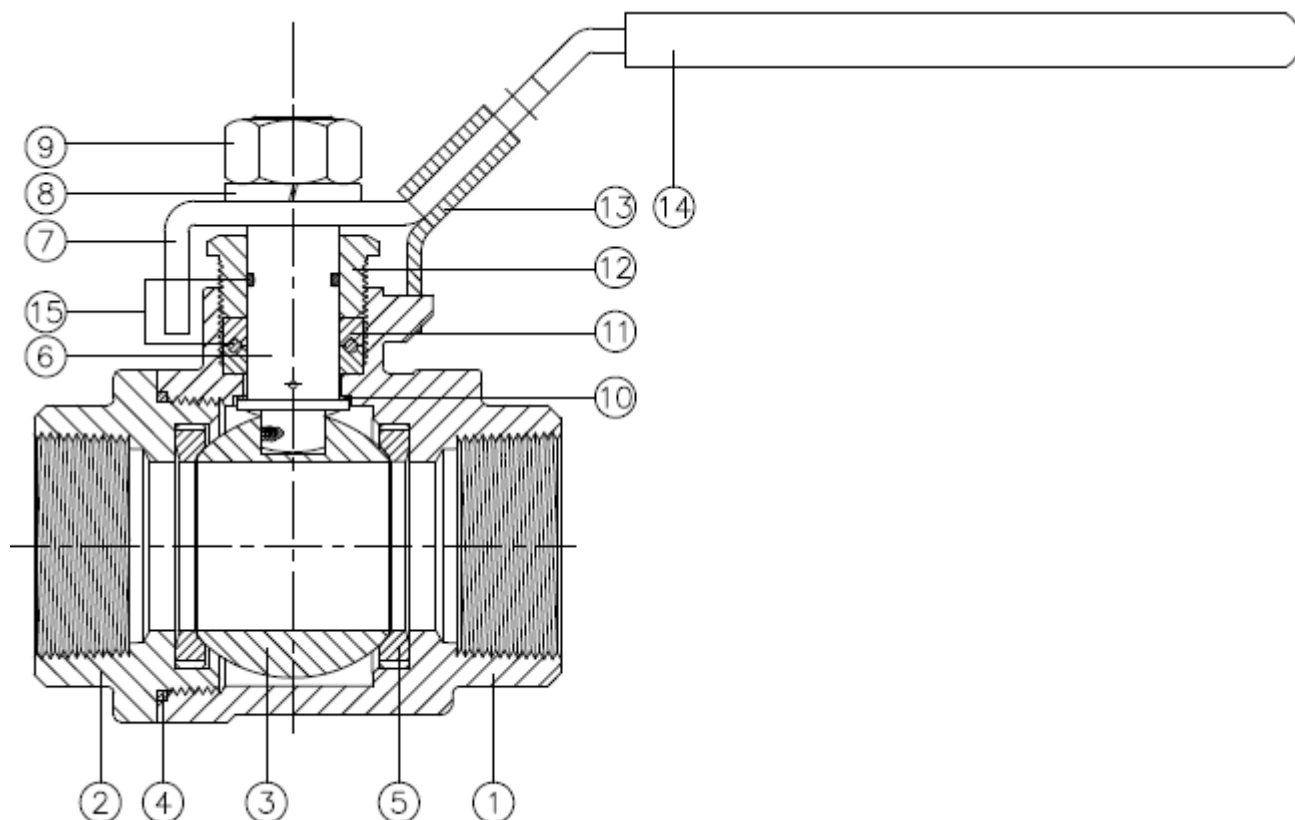
- Stainless steel ball valve for solar use **Ref. 714** from DN 1/4" to DN 2"

**CONNECTION :**

- Female / female threaded BSP cylindrical ends

**SOLAR 2 PIECES BALL VALVE ATEX HIGH TEMPERATURE**

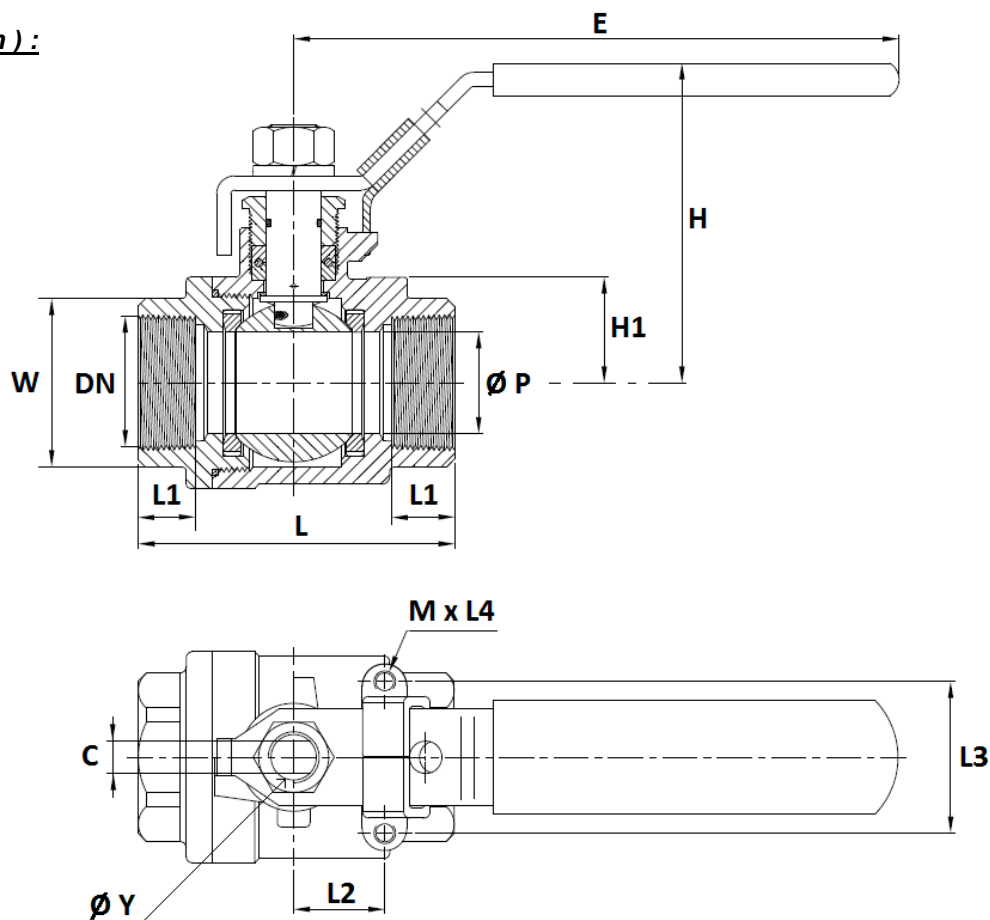
**MATERIALS :**



| Item | Designation    | Materials                     |
|------|----------------|-------------------------------|
| 1    | Body           | EN 1.4408                     |
| 2    | Ends           |                               |
| 3    | Ball           |                               |
| 4    | Body gasket    | PTFE filled with 15% graphite |
| 5    | Seat           | PTFE filled with 15% graphite |
| 6    | Stem           | AISI 316                      |
| 7    | Handle         | AISI 304                      |
| 8    | Handle washer  |                               |
| 9    | Handle nut     |                               |
| 10   | Gasket         | PTFE filled with 15% graphite |
| 11   | Packing        | PTFE filled with 15% graphite |
| 12   | Packing nut    | AISI 304                      |
| 13   | Locking device |                               |
| 14   | Handle cover   | PVC                           |
| 15   | O ring         | FKM                           |

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**SIZE ( in mm ) :**



| DN          | 1/4"             | 3/8"   | 1/2"   | 3/4"               | 1"       | 1 1/4"   | 1 1/2"            | 2"     |
|-------------|------------------|--------|--------|--------------------|----------|----------|-------------------|--------|
| Ø P         | 11.6             | 12.5   | 15     | 20                 | 25       | 32       | 38                | 50     |
| L           | 50.8             | 50.8   | 58     | 65.6               | 78.7     | 90       | 105               | 124    |
| L1          | 10               | 9      | 13     | 13                 | 17       | 18       | 20                | 24     |
| L2          | 12.7             | 12.7   | 12.7   | 12.7               | 22.4     | 22.4     | 23.2              | 23.2   |
| L3          | 28.5             | 28.5   | 28.5   | 28.5               | 35       | 35       | 38.1              | 38.1   |
| M x L4      | M5 x 5.5         |        |        | M5 x 6             | M5 x 6.5 | M6 x 5.5 | M6 x 6            |        |
| E           | 100              | 100    | 100    | 125                | 149      | 149      | 190               | 190    |
| H           | 58.5             | 58.5   | 58.5   | 63.5               | 78       | 83       | 102               | 108    |
| H1          | 15.8             | 15.8   | 15.8   | 21.3               | 23.8     | 30.5     | 35.5              | 44.3   |
| C           | 5                | 5      | 5      | 6.5                | 8        | 8        | 10                | 10     |
| Ø Y         | 9.5 (3/8"-24UNF) |        |        | 11.1 (7/16"-20UNF) |          |          | 12.7 (1/2"-20UNF) |        |
| W (on flat) | 19               | 23     | 26     | 32                 | 38       | 49       | 54                | 67     |
| Weight (Kg) | 0.2              | 0.2    | 0.3    | 0.5                | 0.8      | 1.1      | 1.8               | 2.7    |
| Ref.        | 714002           | 714003 | 714004 | 714005             | 714006   | 714007   | 714008            | 714009 |

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**SOLAR 2 PIECES BALL VALVE ATEX HIGH TEMPERATURE****STANDARDS :**

- Manufacturer certified ISO 9001 : 2015 and ISO 14001 : 2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
  - DN1/4"-1" : Article 4, §3 (SEP), no CE marking
  - DN1"1/4-2" : Risk Category II, CE0035 marking
- Certificate 3.1 on request
- Pressure tests according to API 598, table 6
- Female BSPP internal parallel thread according to ISO 7/1 Rp
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 & 22 ( optional marking )
- Tightness according to TA LUFT/5.2.6.4 & VDI 2440/3.3.1.3

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