













**Certificate 3.1** 

Size: DN 1/4" to 2"

**Ends:** Female BSP

Min Temperature: - 20°C Max Temperature: + 200°C Max Pressure: 63 Bars

**Specifications:** For solar use

PTFE filled with 15% graphite seat

Anti blow-out stem

Atex

Tightness according to TA LUFT

**Materials:** Stainless steel ASTM A351 CF8M

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Rev.05



### **SPECIFICATIONS:**

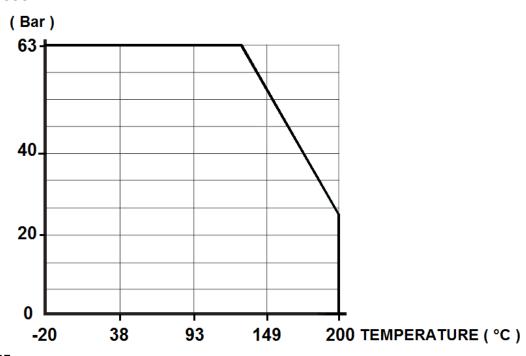
- Full bore
- Anti blow-out stem
- PTFE filled with 15% graphite seat
- Locking handle
- Atex
- Double antistatic device
- Tightness according to TA LUFT
- 2 pieces type
- Solid ball

#### 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**



## **RANGE:**

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

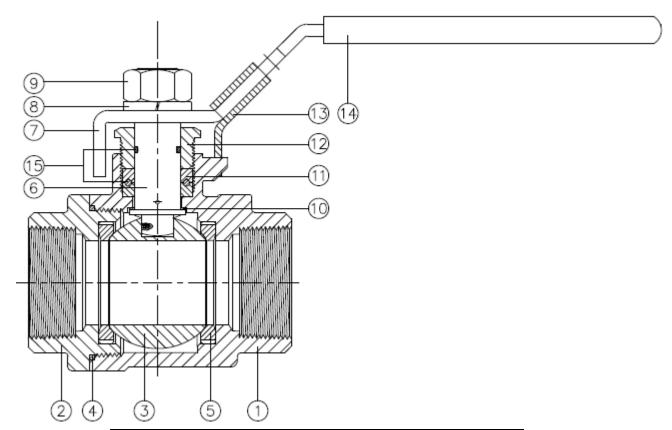
### ENDS:

Female / female threaded BSP cylindrical ends

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### **MATERIALS:**



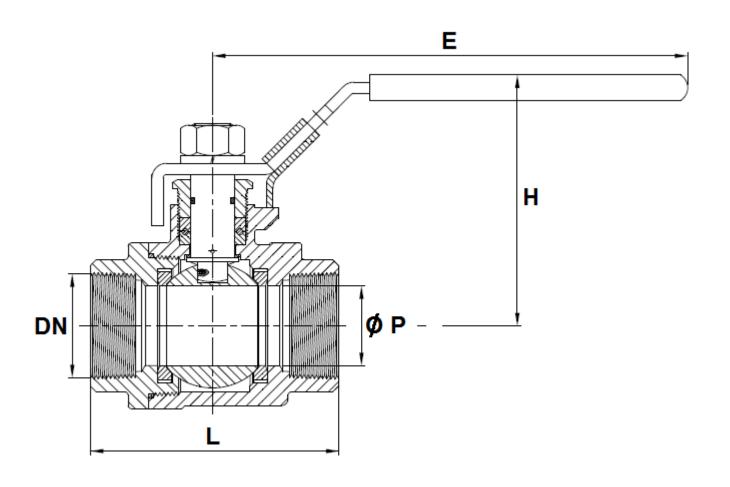
Item	Designation	Materials				
1	Body	ASTM A351 CF8M				
2	Ends	ASTM A351 CF8M				
3	Ball	ASTM A351 CF8M				
4	Body gasket	PTFE filled with 15% graphite				
5	Seat PTFE filled with 15% graphite					
6	Stem	AISI 316				
7	Handle					
8	Handle washer	AISI 304				
9	Handle nut	]				
10	Gasket	PTFE filled with 15% graphite				
11	Packing	PTFE filled with 15% graphite				
12	Packing nut	AISI 304				
13	Locking device	AISI 304				
14	Handle cover	PVC				
15	O ring	ring FKM				

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### SIZE (in mm):



Ref.	DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
714	ØΡ	11.6	12.5	15	20	25	32	38	50
	L	50.8	50.8	58	65.6	78.7	90	105	124
	E	100	100	100	125	149	149	190	190
	н	58.5	58.5	58.5	63.5	78	83	102	108
	Weight ( Kg )	0.200	0.200	0.300	0.470	0.760	1.1	1.8	2.7

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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"
Kvs ( m3/h )	19	22	34	62	98	170	247	427

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

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

### **STANDARDS**:

Fabrication according to ISO 9001 : 2015

 DIRECTIVE 2014/68/EU: CE N° 0035 Risk category III Module H

Certificate 3.1 on request

Pressure tests according to API 598, table 6

Female cylindrical BSP threaded ends 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

**ADVICE :** Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.

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# **SOLAR 2 PIECES BALL VALVE**

### **INSTALLATION AND MAINTENANCE**

### **BEFORE INSTALLATION:**

Pipe-line must be cleaned and free from residual of weldings, rubbish, shaving and every kind of extraneous materials. Pipe-line must be perfectly aligned and their support properly dimensioned so that there's no external constraint.

Please use the right product according to the services conditions to seal the valve. Use the right bolt tightening so that the ends won't be damaged.

#### **CLEANING AND TESTS**

Keep closed the valves during the cleaning operation so that there's no impurities between the ball and the body.

Tests under pressure must be done with a cleaned pipe-line.

Open partially the valve for tests. Pressure test do not exceed the valve specifications according to API 598.

### **MAINTENANCE**

Date: 08/17

It's recommended to operate the valve twice (open and close) 1 to 2 times per year.

When intervention on the valve, be sure there's no pressure in the pipe-line, there's no fluid in it, and that it is isolated. The temperature must be low enough to operate without risks. If there's a corrosive fluid, inert installation before intervention.

#### When the valve is under pressure:

If there's a leakage at the packing, tighten it slightly so that the leakage disappears.

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