2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

PRODUCT EVOLUTION

Be careful, our valves Ref.704 are changing

We currently have 2 different types available (according to DN) with different dimensions

Example of old marking :

Example of new marking :

(CE0038 or CE 0343)

At the end, only the new type will be available (from page 2 to 8)

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

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

Lloyd's Register PED/2014/68/EU

NEW

Size :	DN1/4" to DN2"
Connection :	Female NPT
Min Temperature :	-50°C
Max Temperature :	+180°C
Max Pressure :	63 Bars
Specifications :	Long pattern DIN M3 Handle with locking device Anti blow-out stem ATEX Full bore
Materials :	Stainless Steel ASTM A351 CF8M

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

SPECIFICATIONS :

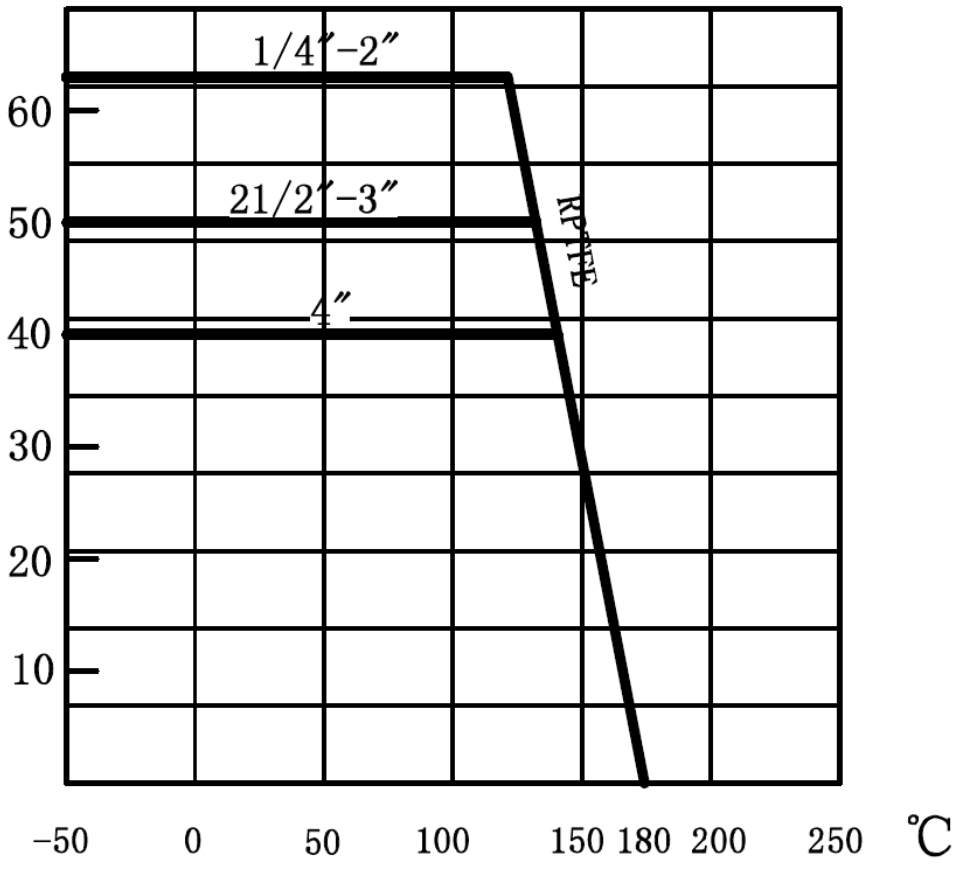
- Full bore
- Anti blow-out stem
- PTFE packing
- Locking device
- Solid ball
- 2 pieces type
- ATEX

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 (see graph)

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :

Pressure (Bar)



Temperature

Information provided as an indication and subject to possible modification

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

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)	18.7	21.7	31.3	57.9	94.2	157.9	227.9	414.8

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)	5	5	7	10	18	28	40	50

RANGE :

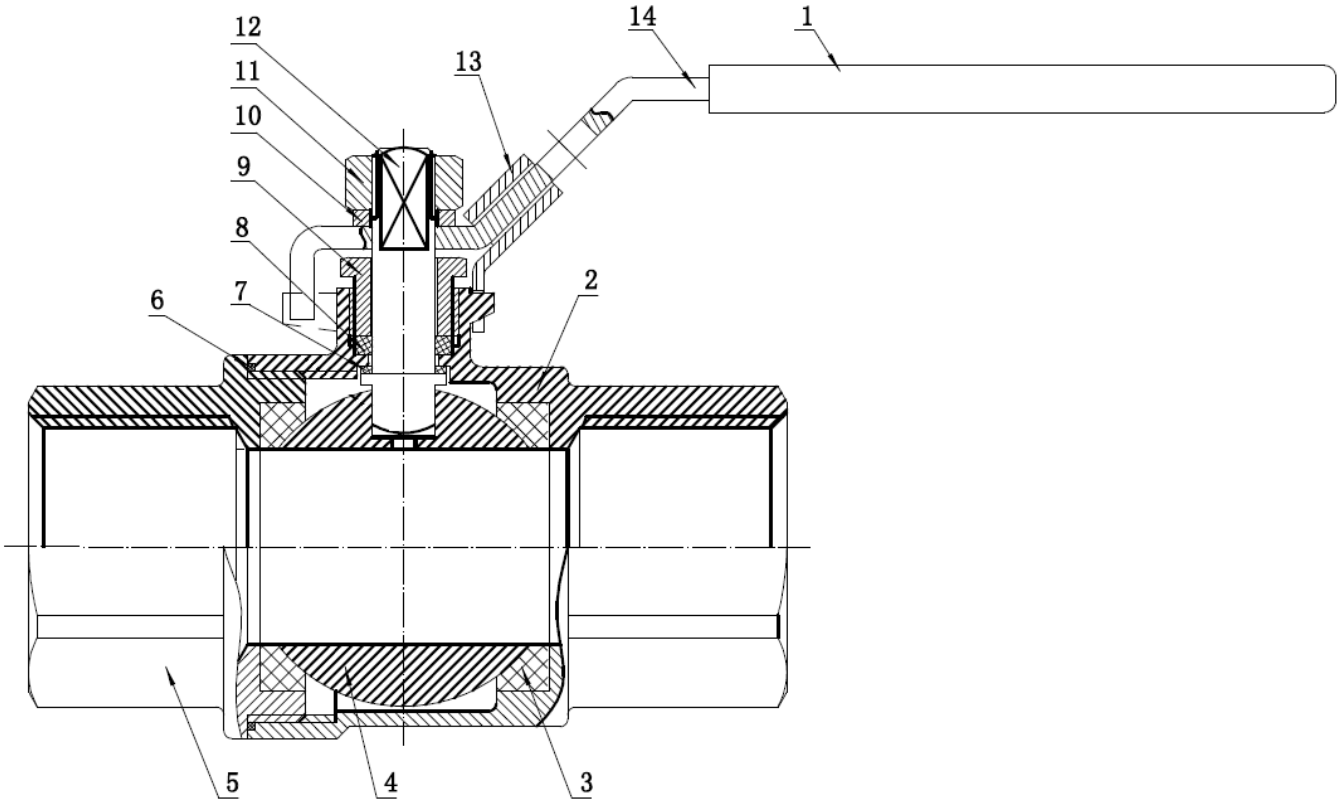
- Stainless steel ball valve NPT threaded with red handle **Ref. 704** DN 1/4“ to DN 2“

- Blue handle cover **Ref. 9830620 to 9830624** DN 1/4“ to DN 2“

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

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

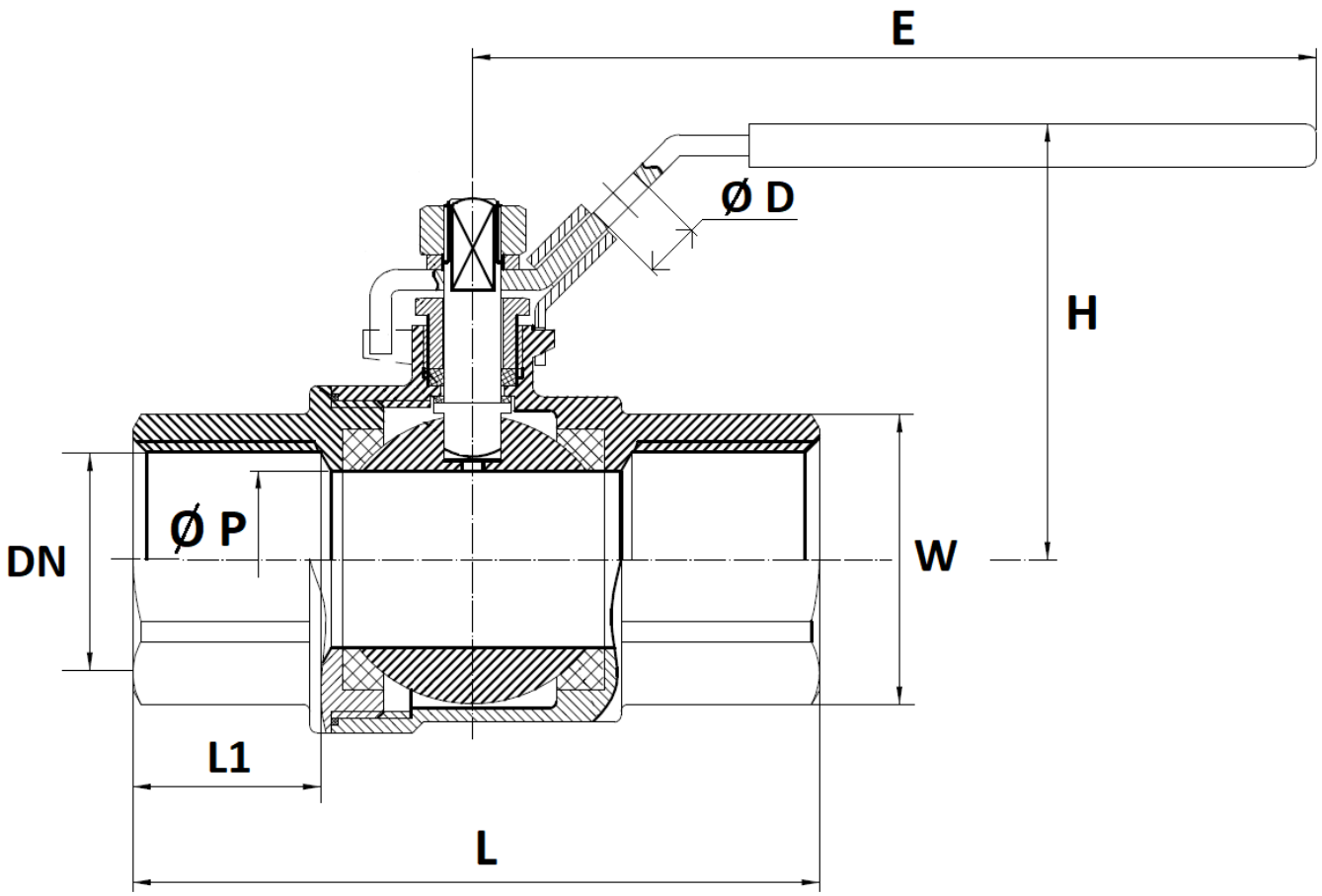
MATERIALS :



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	

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

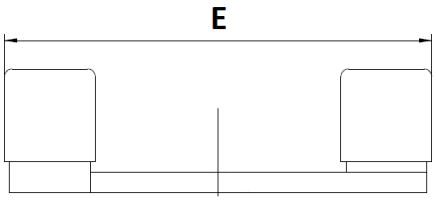
SIZE (in mm) :



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	60	75	80	90	110	120	140
Ø D	6		7					
E	91.5	91.5	103	112.5	112.5	140	140	162
H	48	48	52.5	59	62.5	74	77.5	92.5
L1	17.8	17.8	20.5	22	22.5	30	30	32
W (on flat)	18	21	25	30	37	46	52	65
Weight (in Kg)	0.17	0.19	0.29	0.39	0.58	0.99	1.37	2.5
Ref.	704002	704003	704004	704005	704006	704007	704008	704009

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

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	

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

STANDARDS :

- Manufacturer certified ISO 9001 : 2015
- DIRECTIVE 2014/68/EU : CE N° 0038 or CE N° 0343
  Risk category III Module H
- Certificate 3.1 on request
- Pressure Tests according to EN 12266-1, Rate A
- Threaded ends NPT according to ANSI B1.20
- 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)

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.

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 opened the valves during the cleaning operation so that there are 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 ISO 5208.

MAINTENANCE

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.

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

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 3% 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

TÜVRheinland
PED/2014/68/UE

Size :	DN1/4" to DN2"
Connection :	Female NPT
Min Temperature :	-50°C
Max Temperature :	+180°C
Max Pressure :	63 Bars (up to DN3/4")
Specifications :	Long pattern DIN M3 Handle with locking device Anti blow-out stem ATEX Full bore
Materials :	Stainless Steel EN 1.4408

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

SPECIFICATIONS :

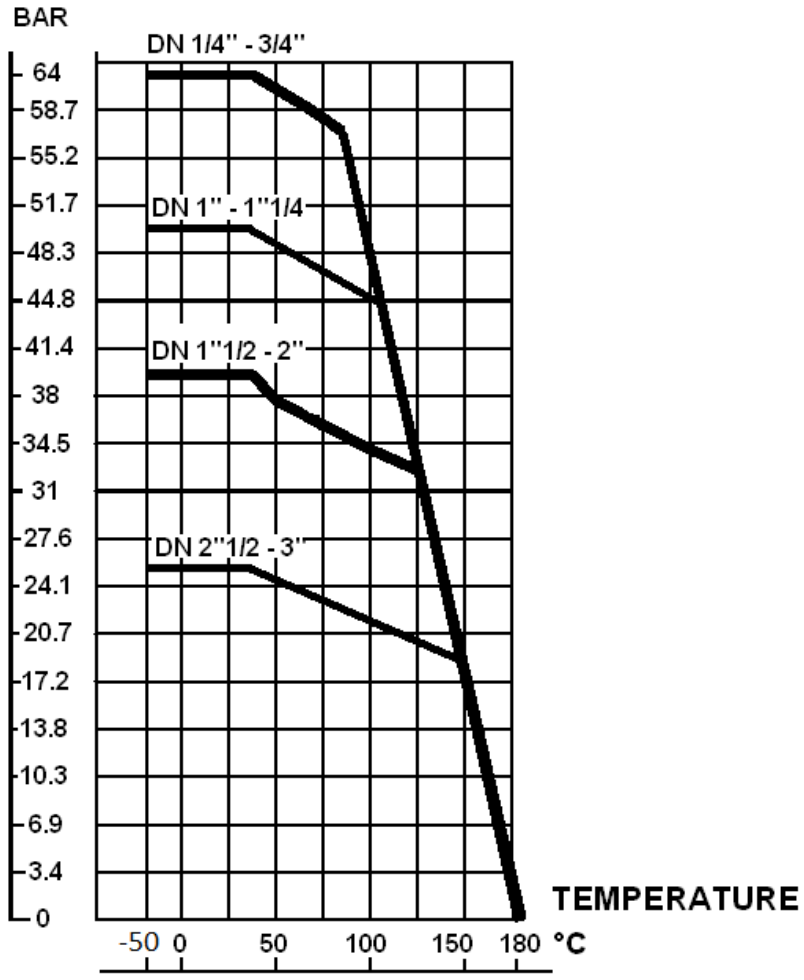
- Full bore
- Anti blow-out stem
- PTFE packing
- Locking device
- Solid ball
- 2 pieces type
- ATEX

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 DN3/4“,50 bars from DN 1“ to 1“1/4,40 bars from DN 1“1/2 to 2“ (see graph)

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :

PRESSURE



2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

FLOW COEFFICIENT Kvs (M3 / h) :

DN	1/2“	3/4“	1“	1“1/4	1“1/2	2“
Kvs (m3/h)	25	50	100	180	270	490

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)	2.7	2.7	3	4	5	6	8	10

RANGE :

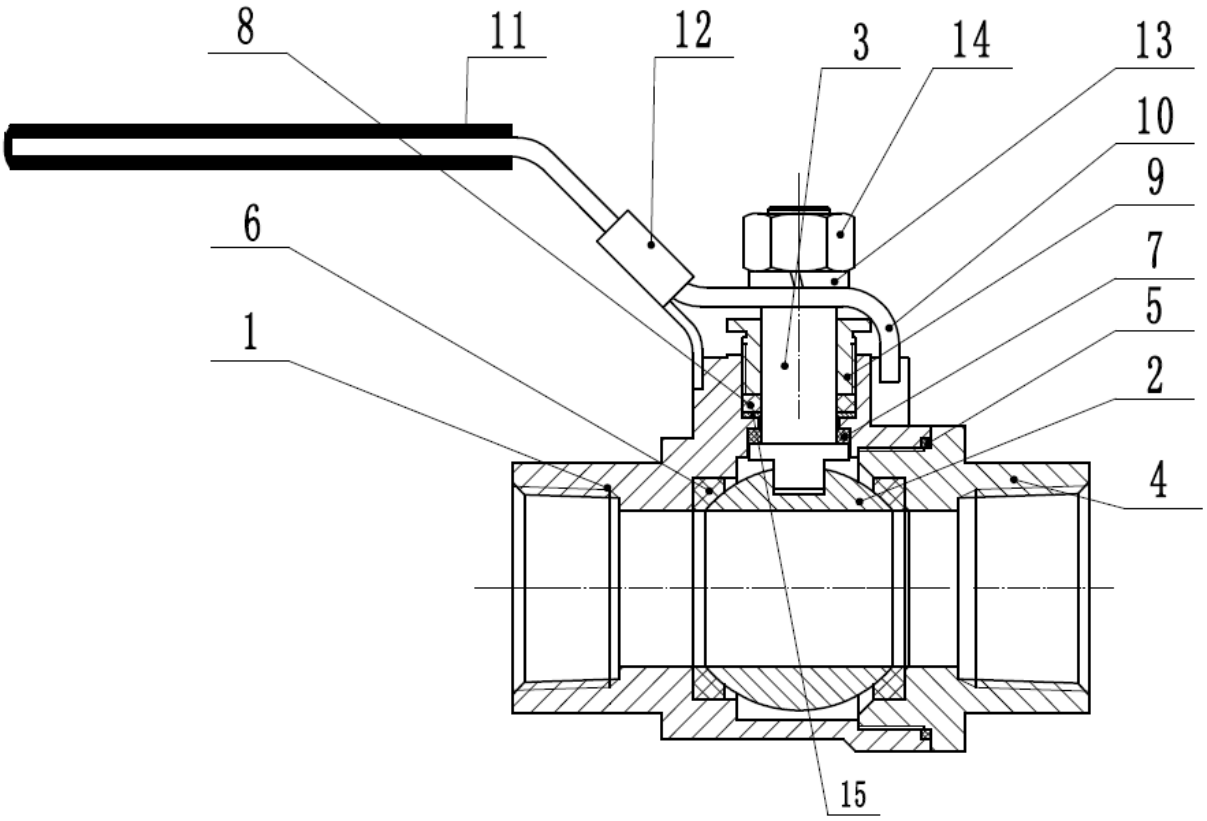
- Stainless steel ball valve NPT threaded with red handle **Ref. 704** DN 1/4“ to DN 2“

- Blue handle cover **Ref. 9830380 to 9830383** DN 1/4“ to DN 2“

- AISI 304 red butterfly handle **Ref. 9831131 to 9831134** DN 1/4“ to DN 1“

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

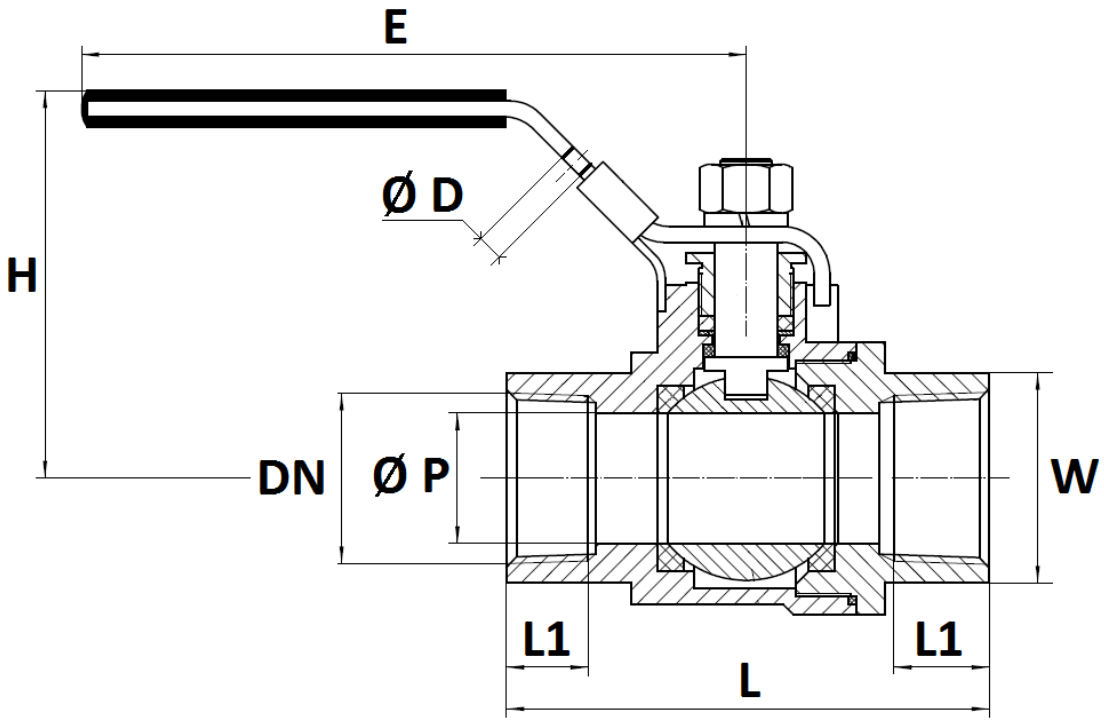
MATERIALS :



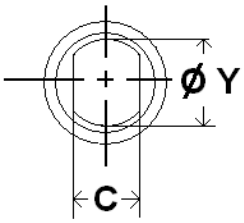
Item	Designation	Materials
1	Body	EN 1.4408
2	Ball	AISI 316
3	Stem	AISI 304
4	End	EN 1.4408
5	Body gasket	PTFE
6	Seat	PTFE filled with 3% glass fiber
7	Gasket	PTFE
8	Packing	
9	Packing nut	AISI 304
10	Handle	
11	Handle cover	PVC
12	Locking device	AIS 304
13	Washer	
14	Nut	
15	Antistatic device	

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

SIZE (in mm) :



Stem size :



DN	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Ø P	9.2	12.5	15	20	25	32	38	50
L	50	60	75	80	90	110	120	140
Ø D	8	8	8	8	8	8	8	8
E	83	83	103	103	151	151	194	194
H	49	53	60	62	77	81	91	103
L1 (BSP)	10	10.5	13.5	14.5	17.5	19	19	23.5
W on flat	19	22	26	32	38	50	54	68
C	4	5	6.5	6.5	8	8	8.5	8.5
Ø Y	6	8	9.5	9.5	11.5	11.5	16	16
Weight (in Kg)	0.27	0.26	0.32	0.42	0.67	1.12	1.73	2.78
Ref.	704002	704003	704004	704005	704006	704007	704008	704009

Information provided as an indication and subject to possible modification

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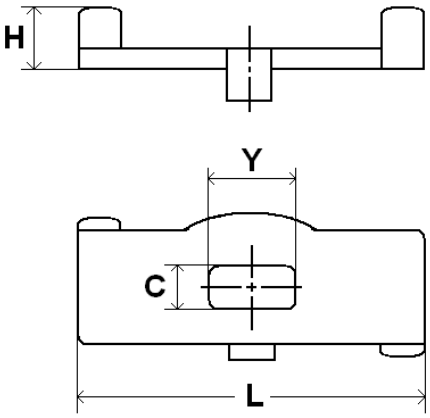
BUTTERFLY HANDLE SIZE (in mm) :



- **Ref. 983113 :**

DN	1/4"	3/8"	1/2"	3/4"	1"
L	55	55	60	60	70
H	20	20	22	22	28
C	4	5	6.5	6.5	8
Y	7	8	9.5	9.5	11.5

Information provided as an indication and subject to possible modification

2 PIECES STAINLESS STEEL BALL VALVE PN63 ATEX DIN M3 FEMALE NPT

STANDARDS :

- Manufacturer certified ISO 9001 : 2015
- DIRECTIVE 2014/68/EU : CE N° 0035
  Risk category III Module H
- Certificate 3.1 on request
- Pressure Tests according to ISO 5208, Rate A
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