

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.



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

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SPECIFICATIONS :

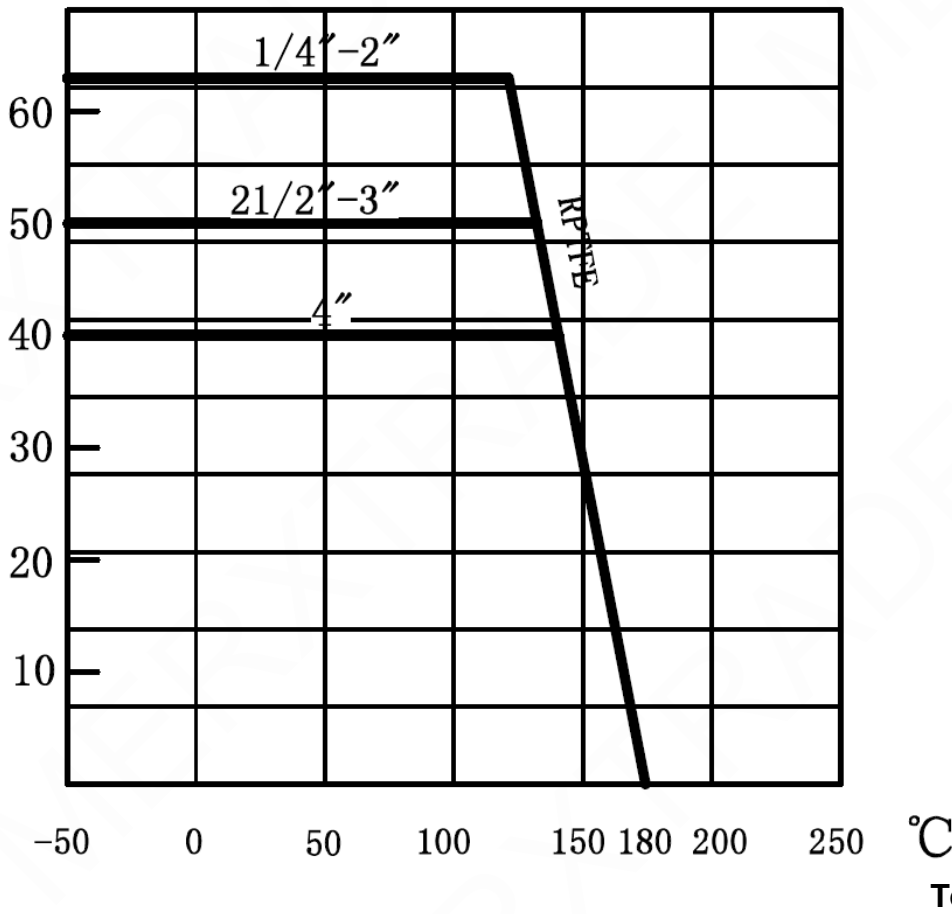
- Full bore
- Anti blow-out stem
- PTFE packing
- Locking device
- Solid ball
- 2 pieces type
- ATEX

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)



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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)	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"



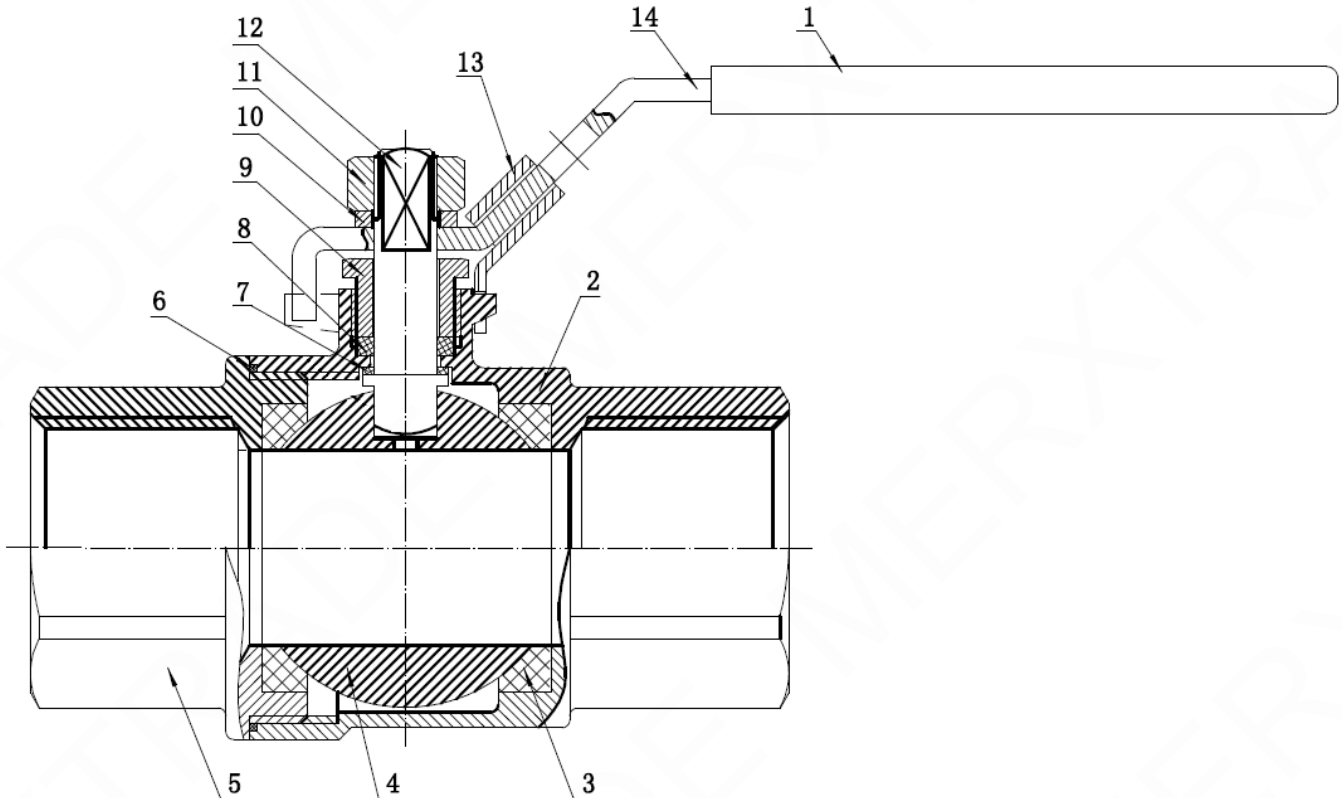
- Blue handle cover **Ref. 9830620 to 9830624** DN 1/4" to DN 2"



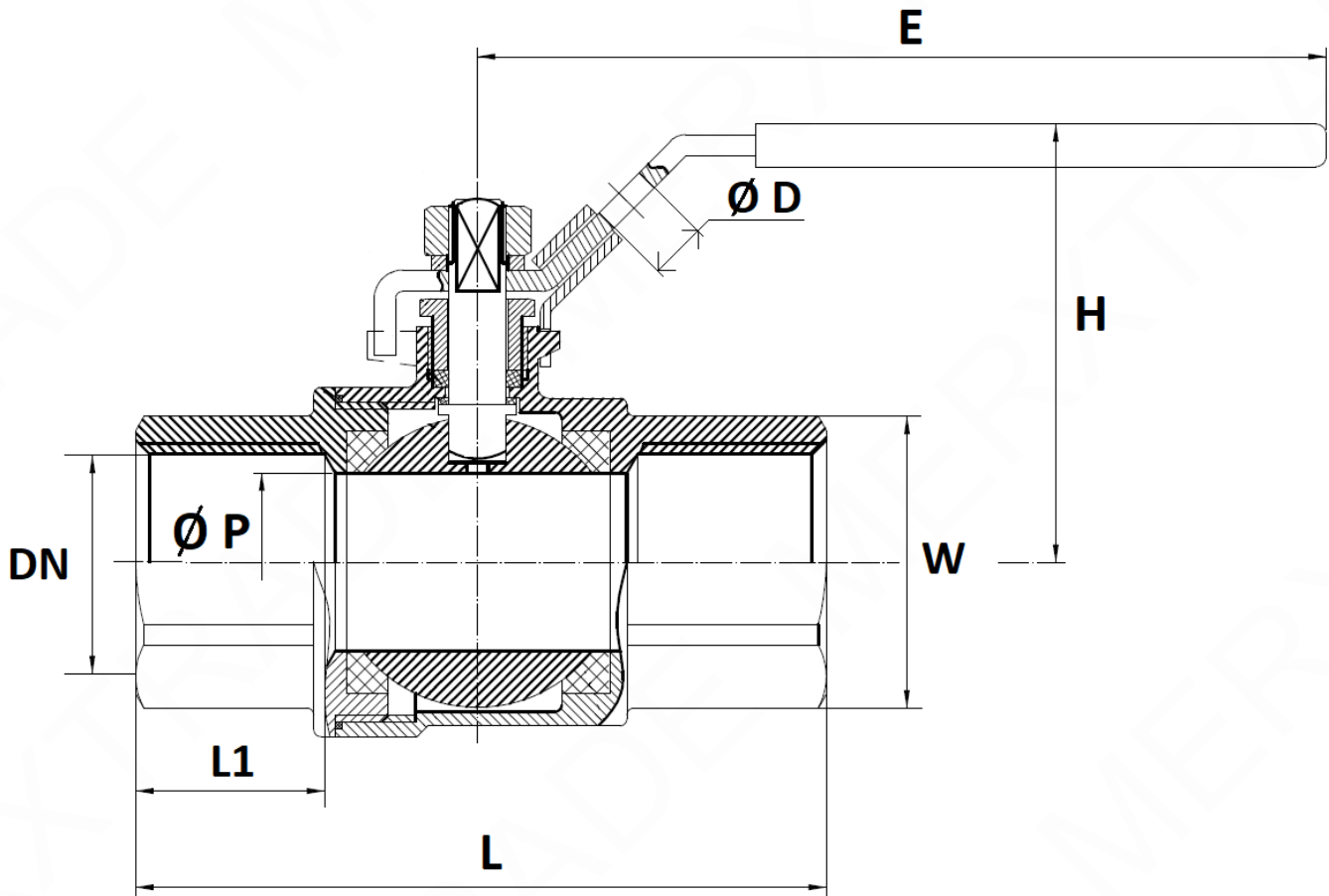
- AISI 304 red butterfly handle **Ref. 9830610 to 9830613** DN 1/4" to DN 1"

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MATERIALS :



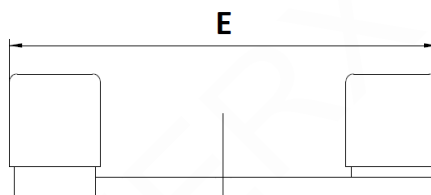
Item	Designation	Materials
1	Handle cover	Plastic
2	Body	ASTM A351 CF8M
3	Seat	PTFE filled with 15% glass fiber
4	Ball	AISI 316
5	Ends	ASTM A351 CF8M
6	Body gasket	PTFE
7	Gasket	PTFE filled with carbon
8	Packing	PTFE
9	Packing nut	AISI 304
10	Washer	
11	Handle nut	
12	Stem	AISI 316
13	Locking device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

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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

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BUTTERFLY HANDLE SIZE (in mm) :



- **Ref. 983061 :**

DN	1/4"	3/8"	1/2"	3/4"	1"
E	50	50	57.5	65	65
Ref.	9830610	9830611	9830612		9830613

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STANDARDS :

- Manufacturer certified ISO 9001 : 2015
- DIRECTIVE 2014/68/EU : CE N° 0038
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 MerxTrade 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.