

**CAST IRON BALL VALVE ISO PN16 LENGTH NF 29323**



**Size :** DN 40 to DN 150  
**Ends :** ISO PN10/16 flanges  
**Min Temperature :** -10°C  
**Max Temperature :** + 200°C  
**Max Pressure :** 16 Bars  
**Specifications :** Full bore  
Stainless steel ball  
ISO 5211 mounting pad

**Materials :** Cast iron

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**SPECIFICATIONS :**

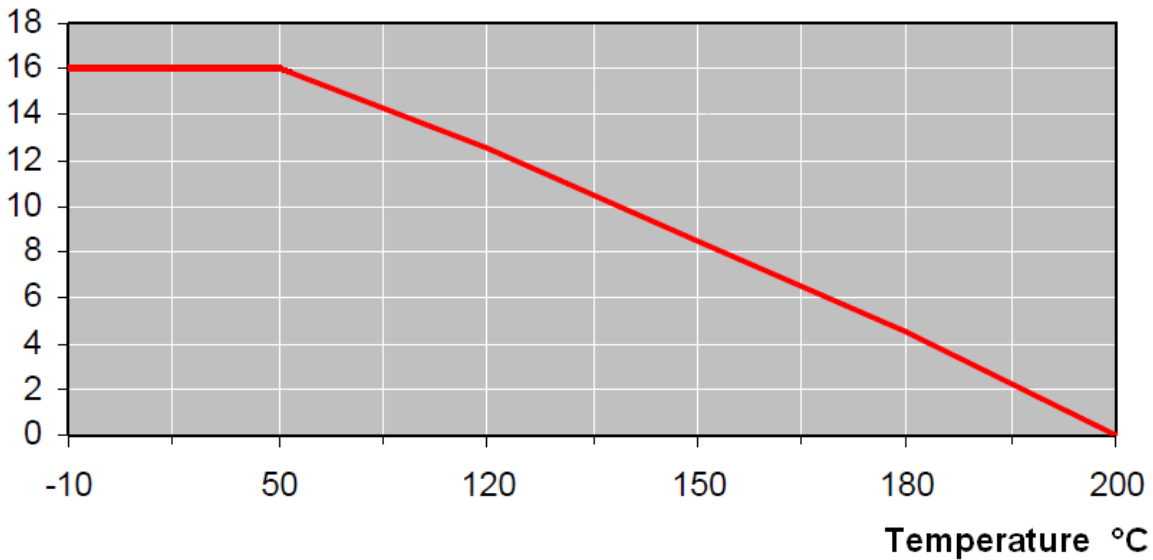
- Full bore
- Anti blow-out stem
- PTFE packing and stem O ring in FKM
- ISO 5211 mounting pad
- ISO PN10/16 flanges R.F. ( according to DN, flanges holes are threaded or not )
- Hollow stainless steel ball
- Black painting colour RAL 9004 , 5-15 microns thickness

**USE :**

- For all common fluids
- Min and max Temperature Ts : - 10°C to + 200°C
- Max Pressure PN : 16 bars
- **Do not use with steam**
- **Do not use with compressed air**

**RANGE :**

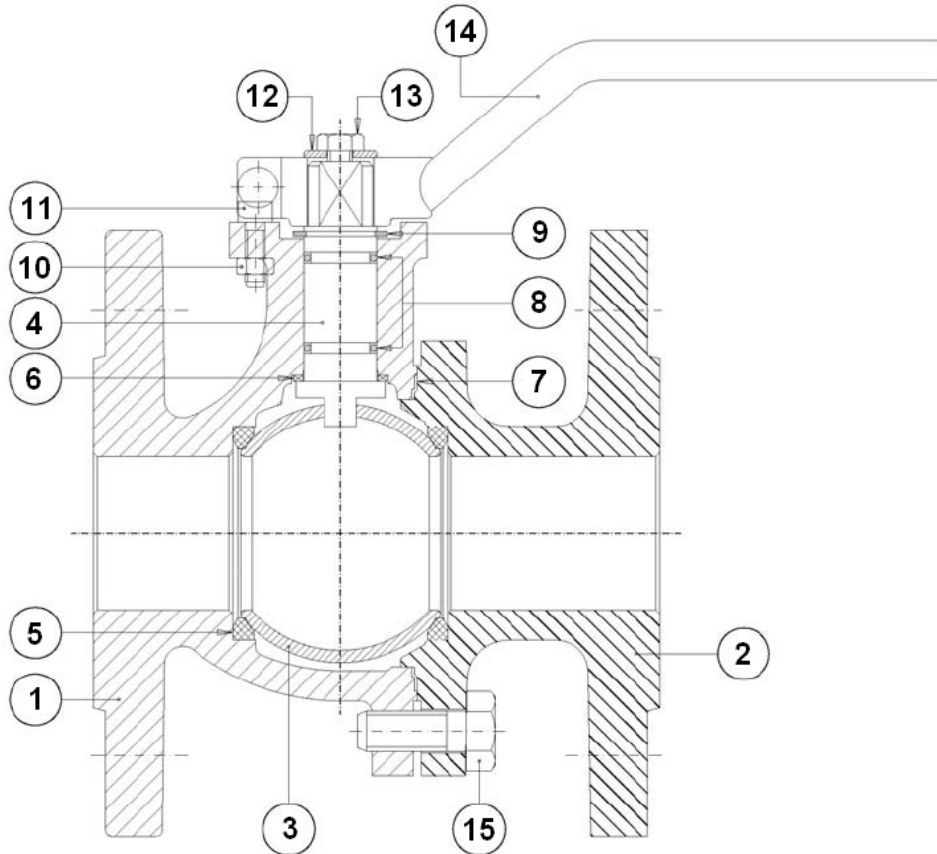
- Cast iron ISO PN10/16 flanges R.F. with stainless steel ball from DN40 to DN150 **Ref. 505**

**PRESSURE / TEMPERATURE GRAPH ( STEAM EXCLUDED ) :**
**P (bar)**

**FLOW COEFFICIENT Kv ( in M3/H ) :**

DN	40	50	65	80	100	125	150
Kv ( M3 / H )	223	416	660	1200	1980	3600	5040

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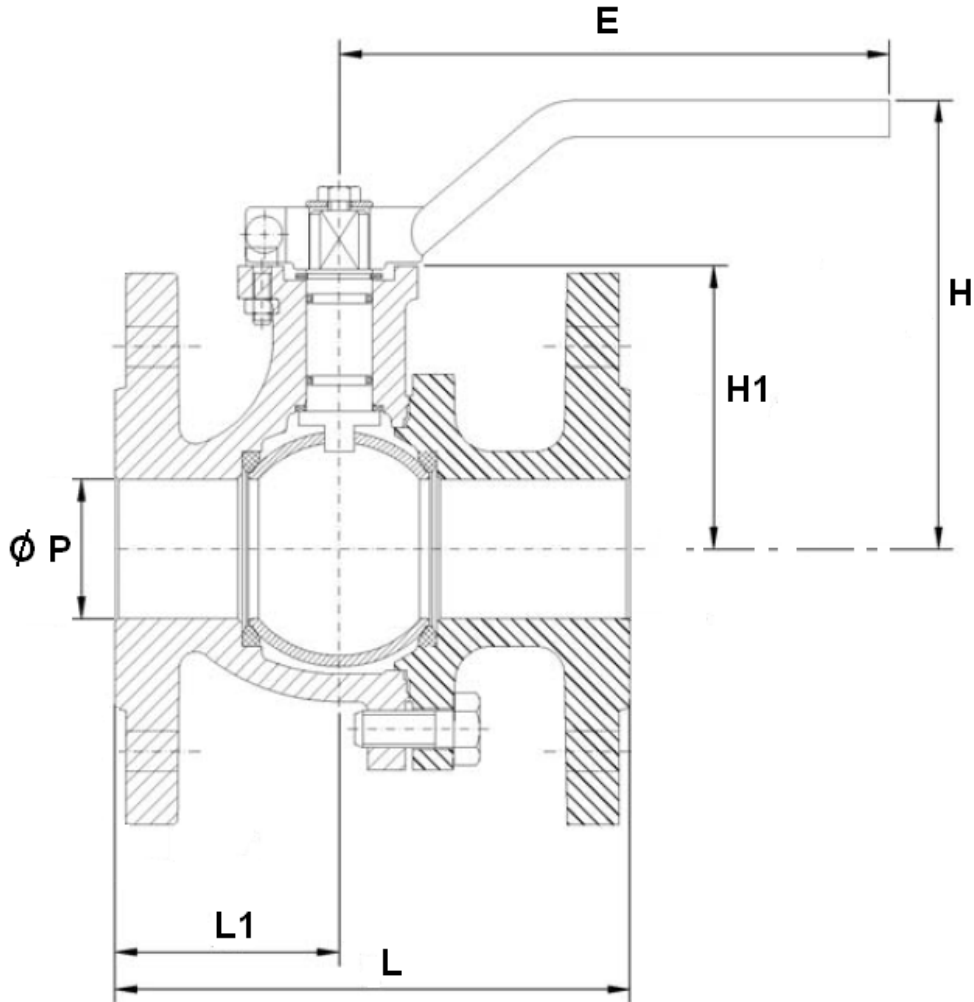
**MATERIALS :**



Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Ends	Cast iron EN GJL-250
3	Ball	SS 304
4	Stem	SS 304
5	Seat	PTFE
6	Washer	PTFE
7	Body gasket	PTFE
8	Stem O ring	FKM
9	Stem washer	Steel DIN 471
10	Nut	Steel DIN 934 8
11	Screw	Steel DIN 912 8.8
12	Handle Washer	Steel
13	Handle screw	Steel DIN 933 5.6
14	Handle	Steel
15	Body screw	DIN 933 5.6

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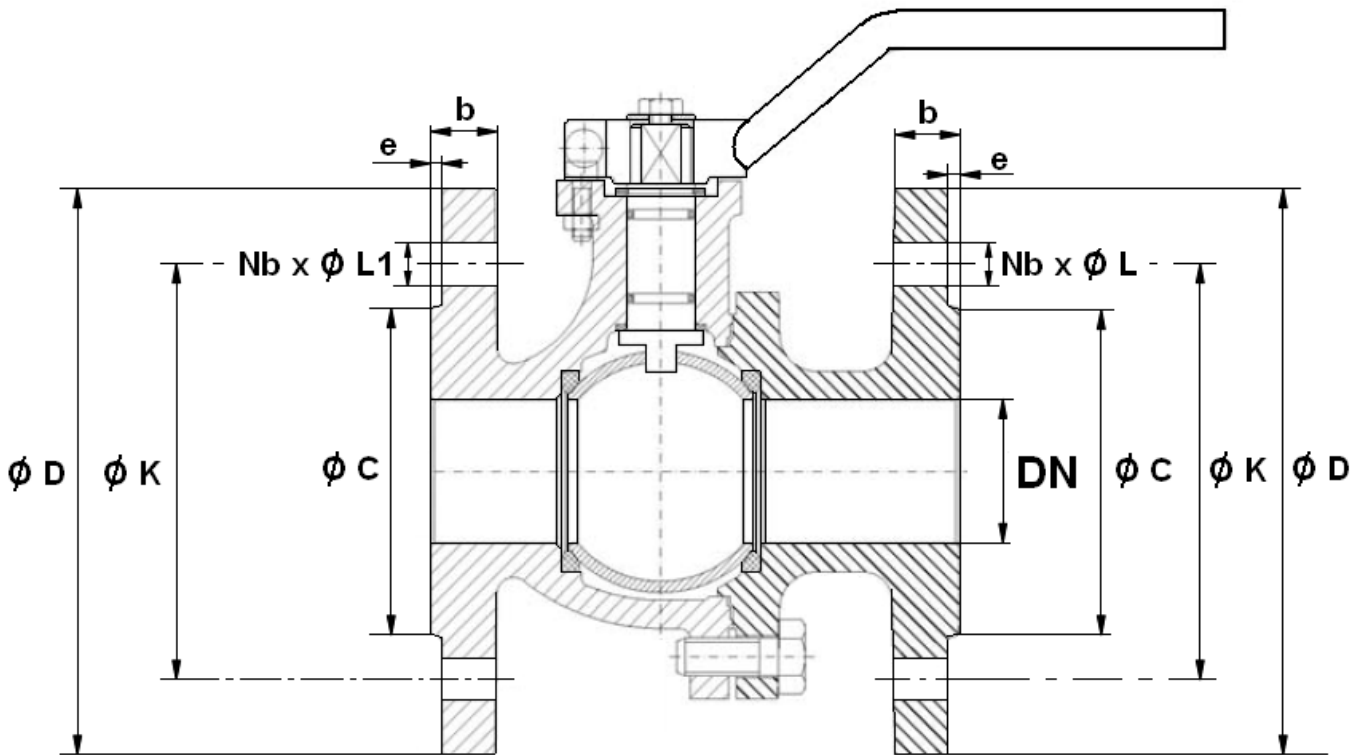
VALVE SIZE ( in mm ) :



REF.	DN	40	50	65	80	100	125	150
505	Ø P	38	50	65	80	100	125	150
	L	136	142	154	160	172	186	200
	L1	57	62	81.5	79	94	93	100
	H	119	127	141	151.5	176.5	208	254.5
	H1	77	85	98	108.5	134	165	190
	E	302.5	302.5	335	335	350	350	500
	Weight ( Kg )	6.5	8.5	10.5	14	19	28	45

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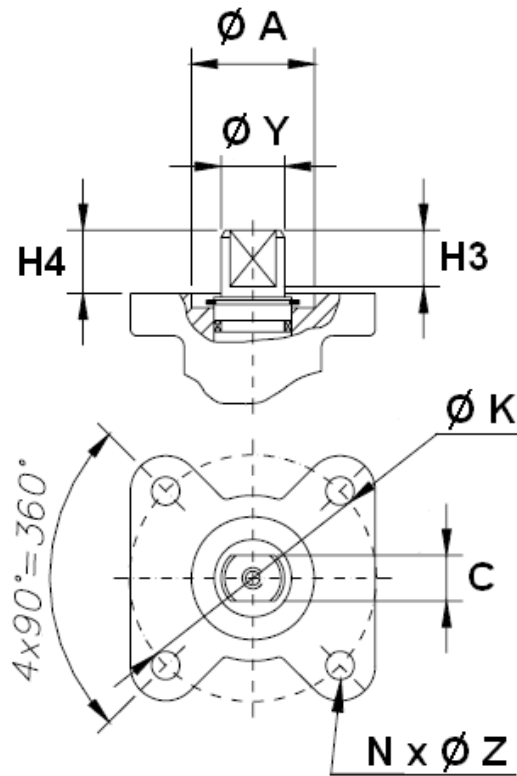
FLANGES SIZE ( in mm ):



Ref.	DN	40	50	65	80	100	125	150
505	Ø C	88	102	122	138	158	188	212
	Ø D	150	165	185	200	220	250	285
	Ø K	110	125	145	160	180	210	240
	Nb x Ø L	4 x 18	4 x 18	4 x M16	8 x M16	8 x M16	8 x M16	8 x M20
	Nb x Ø L1	4 x 18	4 x 18	4 x 18	8 x 18	8 x 18	8 x M16	8 x M20
	b	16	18	18	20	20	22	22
	e	3	3	3	3	3	3	3

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ISO MOUNTING PAD AND STEM SIZE ( in mm ):



REF.	DN	40	50	65	80	100	125	150
505	$\varnothing K$	42	42	70	70	70	70	102
	ISO	F04	F04	F07	F07	F07	F07	F10
	$N \times \varnothing Z$	4 x 5	4 x 5	4 x 8	4 x 8	4 x 8	4 x 8	4 x 10
	C	12	12	13	13	16	16	20
	$\varnothing Y$	16	16	18	18	22	22	28
	H3	16	16	19	19	20	20	27
	H4	15	15	18	18	19	19.5	24.5
	$\varnothing A$	30	30	35	35	38	38	50

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

DN	40	50	65	80	100	125	150
Torque ( Nm )	26	41	41	71	119	190	220

**STANDARDS :**

- Fabrication according to ISO 9001 :2000
- DIRECTIVE 97/23/CE : Risk Category I module A from DN65 to DN150
- Valve design according to DIN 3357
- Body design according to DIN 3840
- ISO 5211 mounting pad
- Length according to NF 29323 , EN 558-1 SERIE 29
- Flanges R.F according to EN 1092-2 PN10/16
- Marking according to EN 19
- Test according to EN 12266-1
- ATEX Group II Category 2 G/2Dc 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.

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**INSTALLATION INSTRUCTIONS**

**GENERAL GUIDELINES :**

- Ensure that the valves to be used are appropriate for the conditions of the installation (type of fluid, pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the valves to be installed are of correct strength to be able to support the capacity of their usage.
- **Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).**

**INSTALLATION INSTRUCTIONS :**

- **Before installing the valves, clean and remove any objects from the pipes** (in particular bits of sealing and metal) which could obstruct and block the valves.
- **Ensure that both connecting pipes either side of the valve (upstream and downstream) are aligned (if they're not, the valves may not work correctly).**
- **Make sure that the two sections of the pipe (upstream and downstream) match, the valve unit will not absorb any gaps. Any distortions in the pipes may affect the tightness of the connection, the working of the valve and can even cause a rupture.** To be sure, place the kit in position to ensure the assembling will work.
- **If sections of piping do not have their final support in place, they should be temporarily fixed. This is to avoid unnecessary strain on the valve.**
- Tighten the bolts in cross.
- It's recommended to operate the valve ( open and close ) 1 to 2 times per year