

FIRE SAFE BALL VALVE ISO PN50 ANSI 300 FLANGED



Size : DN 15 to 150 mm (1/2" à 6")
Ends : ISO PN50 ANSI300 R.F. Flanges
Min Temperature : -50°C in SS and -29°C in carbon steel
Max Temperature : + 250°C
Max Pressure : 50 Bars
Specifications : ISO 5211 mounting pad
Fire safe ISO 10497 : 2004
Fugitive emissions EN 15848-1 : 2006
Atex

Materials : Carbon steel or stainless steel

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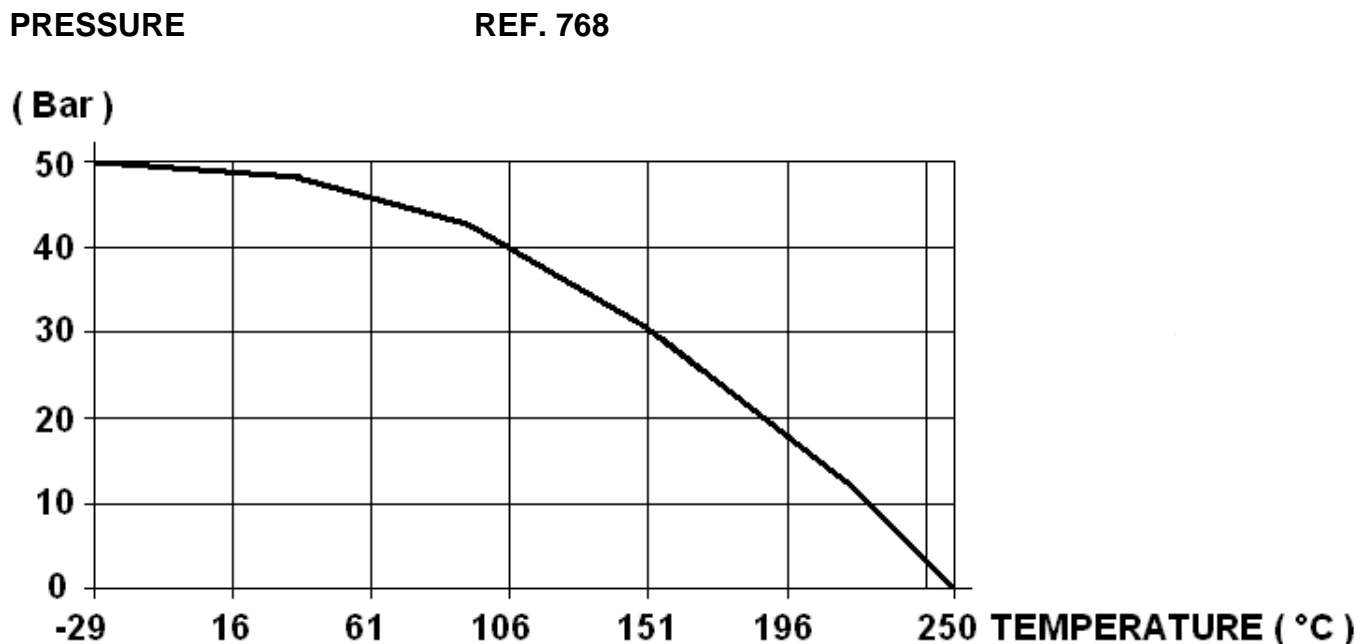
SPECIFICATIONS :

- Full bore
- Anti blow-out stem
- Pure PTFE TFM1600 seat (PMD FF)
- Locking device
- ISO 5211 mounting pad
- 2 pieces type (Split body)
- ISO PN50 ANSI300 R.F. Flanges
- Antistatic device
- Fire safe ISO 10497 : 2004
- Fugitive emissions EN 15848-1 : 2006
- Graphite packing + FKM O ring on stem
- With exhaust hole in the ball (located in the top of the ball to avoid overpressure in it)
- Black painting colour RAL 9004 , 5-15 microns thickness for carbon steel type (Ref. 768)

USE :

- For all common fluids
- Min and max Temperature Ts : -50°C to + 250°C for stainless steel type **Ref. 769**
- Min and max Temperature Ts : -29°C to + 250°C for carbon steel type **Ref. 768**
- Max pressure PN : 50 bars (see graph)

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) FOR CARBON STEEL TYPE REF.768 :



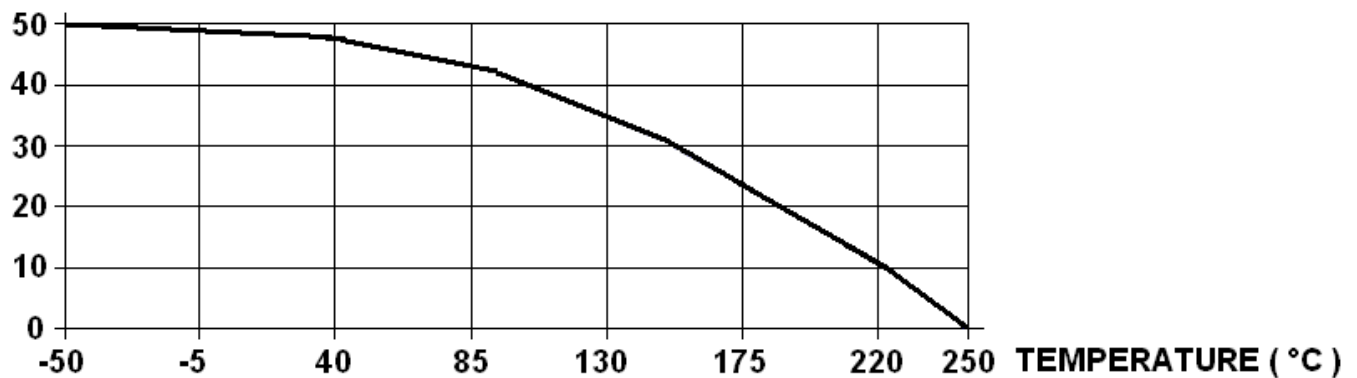
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PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) FOR STAINLESS STEEL TYPE REF.769 :

PRESSURE

REF. 769

(Bar)

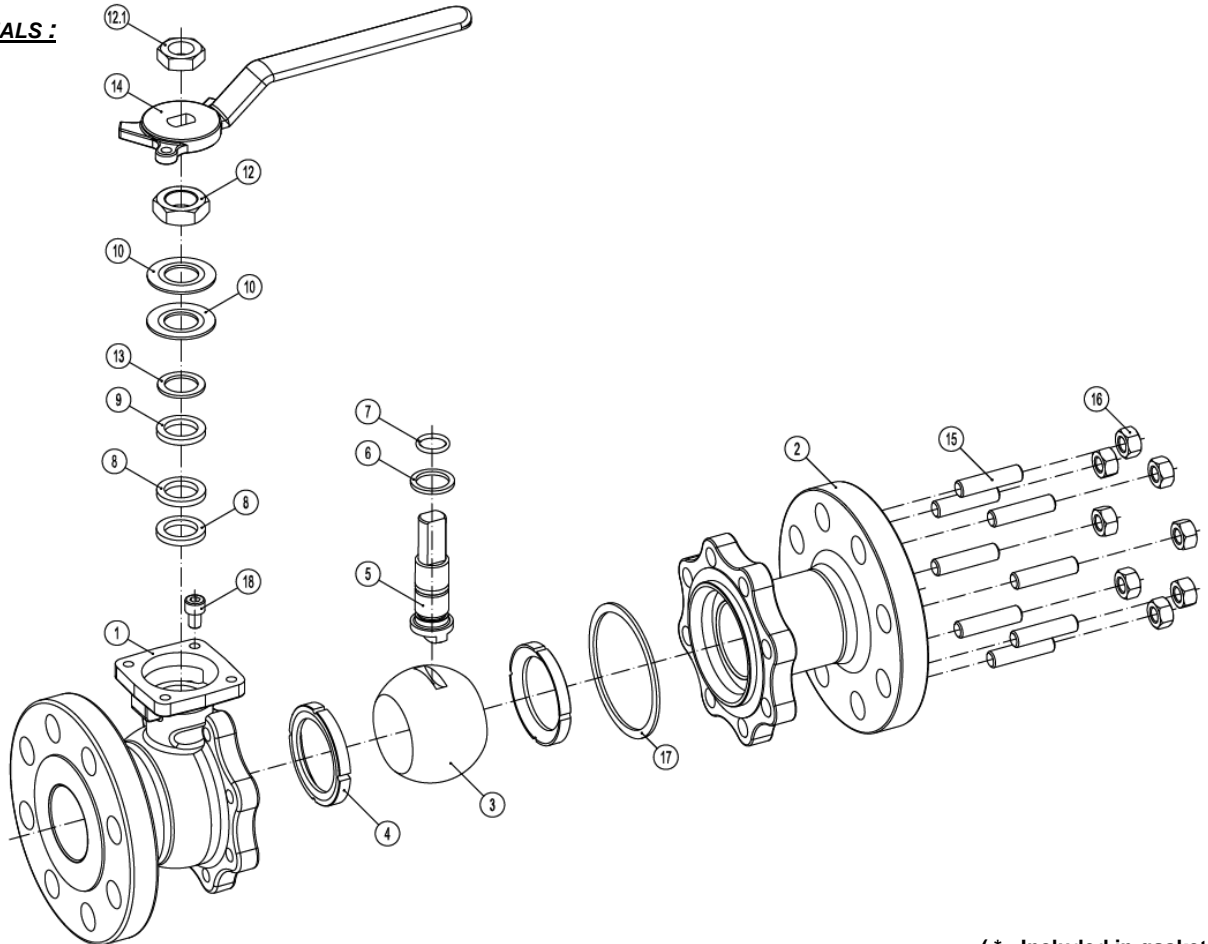


RANGE :

- Carbon steel body **Ref. 768** DN 15 to DN 150 (1/2" to 6")
- Stainless steel body **Ref. 769** DN 15 to DN 150 (1/2" to 6")
- Possible with gearbox **Ref.983026** for DN 150

ENDS :

- ISO PN50 ANSI 300 R.F. Flanges

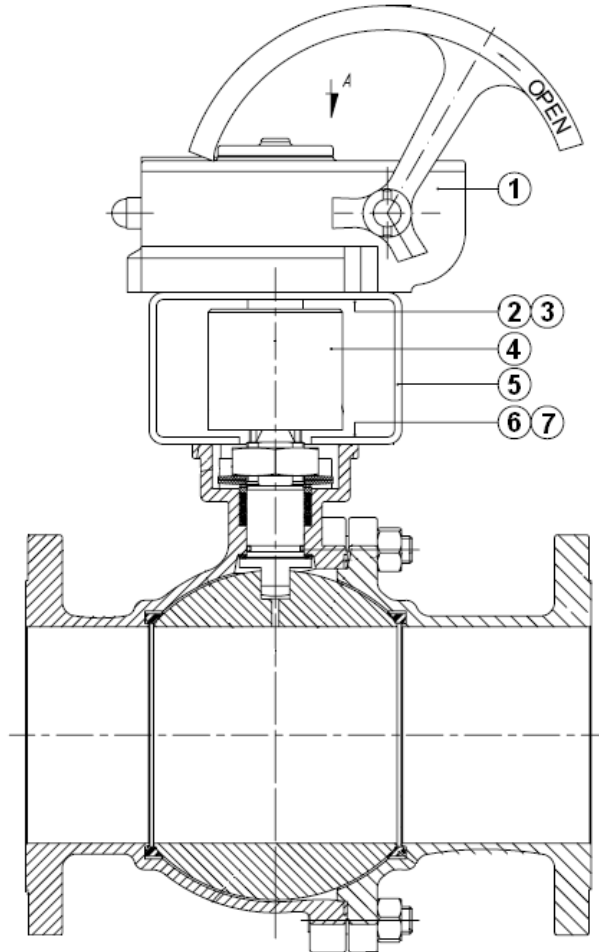
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VALVE MATERIALS :


(* : Included in gaskets kit)

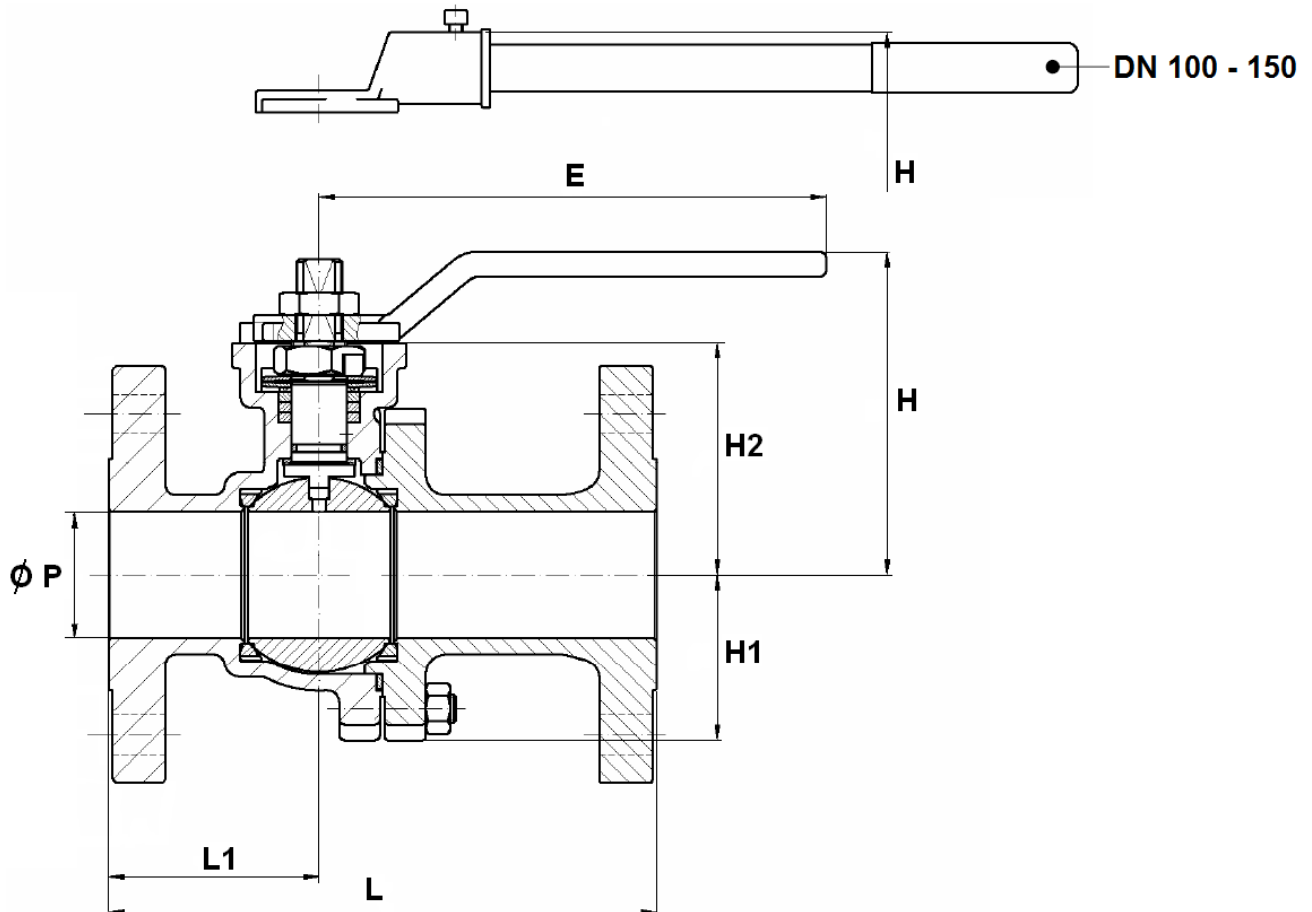
Item	Designation	Materials 768	Materials 769
1	Body	ASTM A216 WCB	ASTM A351 CF8M
2	Ends	ASTM A216 WCB	ASTM A351 CF8M
3	Ball	ASTM A351 CF8M	
4*	Seat	Pure PTFE TFM 1600 (PMD FF)	
5	Stem	ASTM A479 type 316	
6*	Stem thrust seal	PTFE filled with 25% Glass	
7*	Stem O ring	FKM	
8*	Gland Packing	Graphite	
9	Gland	SS 303	
10	Elastic ring	SS 303	
12	Gland nut	SS 303	
12.1	Handle nut	SS 303	
13*	Antifriction washer	PTFE filled with 25% Glass	
14	Handle	Nodular iron	
15	Stud	A 193 Gr. B7M	A 193 Gr. B8M
16	Nut	A 194 Gr. 2HM	A 194 Gr. 8M
17*	Spiralwound gasket	SS 316L + PTFE + Graphite	
18	Bolt	A2	
19	Identification plate	Stainless steel	

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GEARBOX MATERIALS :



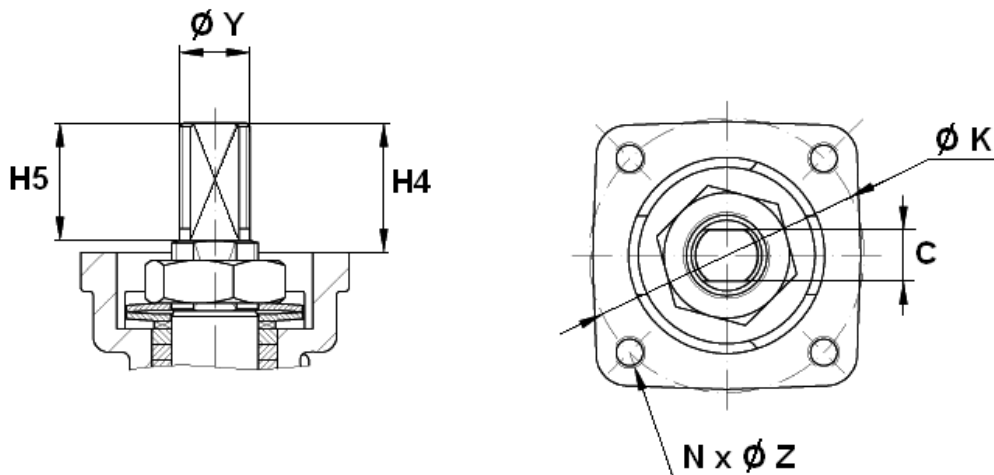
Item	Designation	Materials
1	Gearbox	Painted steel
2	Screw	DIN 912 A2
3	Washer	DIN 912 A2
4	Coupling	Stainless steel
5	Mounting bracket	Stainless steel
6	Screw	DIN 912 A2
7	Washer	DIN 912 A2

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VALVES SIZE (in mm) :


Ref.	DN (mm)	15	20	25	40	50	80	100	150
	DN (")	1/2"	3/4"	1"	1"1/2	2"	3"	4"	6"
768 / 769	Ø P	15	20	25	40	50	78	100	151
	L	140	152	165	190	216	283	305	403
	L1	60	65	70	80	83	118	133	160
	E	170	170	170	215	215	450	466	775
	H	68	70	86	122.5	127.5	190	192.5	259
	H1	31	33	39	48	63	87	108	152
	H2	41	43	58.5	86.5	91.5	118.5	144	203
	Weight (Kg)	2.4	3.5	4.6	9.2	11.5	25	39.5	88.1

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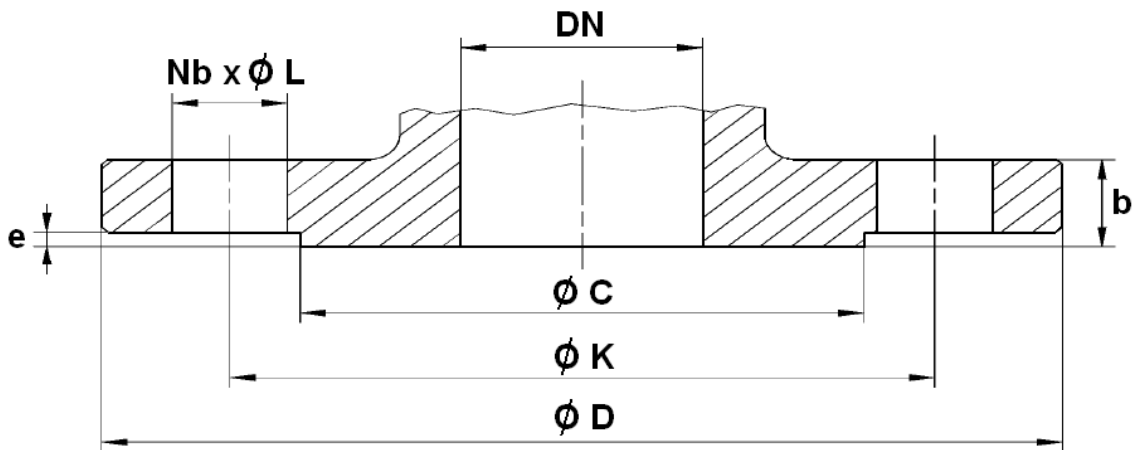
ISO MOUNTING PAD AND STEM SIZE (in mm) :



Ref.	DN (mm)	15	20	25	40	50	80	100	150
	DN (")	1/2"	3/4"	1"	1"1/2	2"	3"	4"	6"
768 / 769	H4	18	18	22	33	33	34	45	56
	H5	11	11	21	32	32	33	43.5	54.5
	C	7	7	8	12	12	15	19	24
	Ø Y	M10	M10	M12	M18	M18	M22	M28	M36
	Ø K	50	50	50	70	70	102	102	125
	ISO	F05	F05	F05	F07	F07	F10	F10	F12
	N x Ø Z	4 x M6	4 x M6	4 x M6	4 x M8	4 x M8	4 x M10	4 x M10	4 x M12

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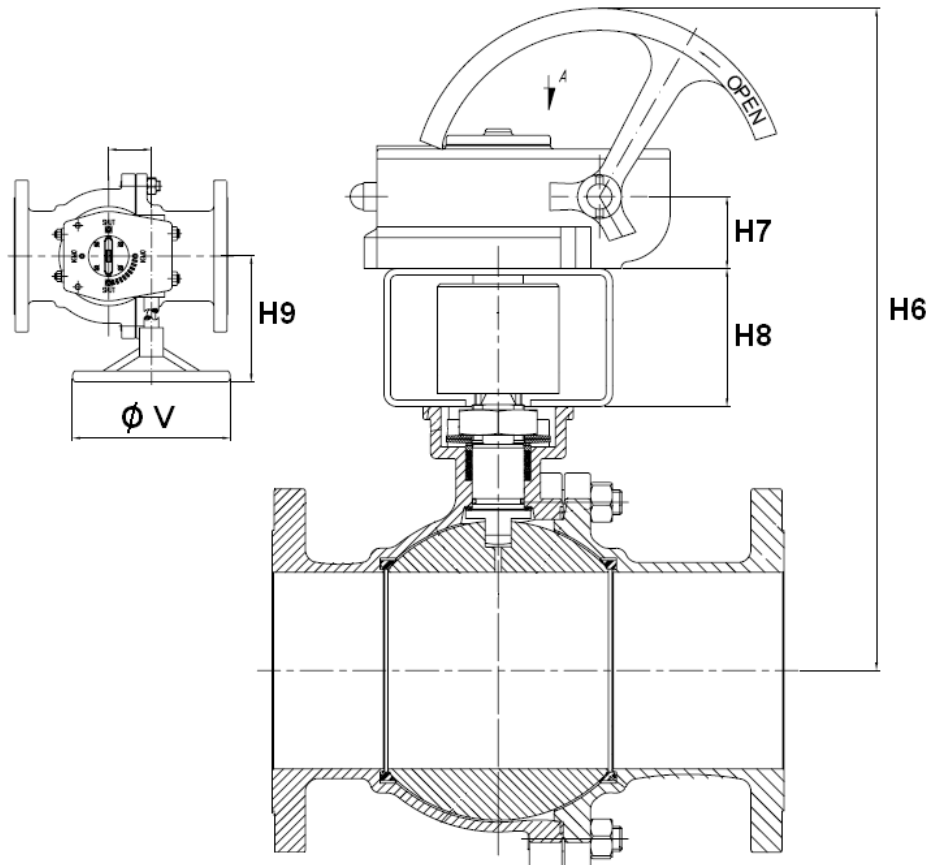
FLANGES SIZE (in mm) :



Ref.	DN (mm)	15	20	25	40	50	80	100	150
	DN (")	1/2"	3/4"	1"	1"1/2	2"	3"	4"	6"
768 / 769	Ø C	35	43	51	73	92	127	157	216
	Ø D	95	117.5	124	155.5	165	210	254	318
	Ø K	66.55	82.55	88.9	114.3	127	168.1	200.15	269.75
	Nb x Ø L	4 x 15.74	4 x 19	4 x 19	4 x 22.2	8 x 19	8 x 22.2	8 x 22.2	12 x 22.2
	b	14.3	15.8	17.6	20.6	22.4	28.5	31.8	36.6
	e	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

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GEARBOX SIZE (in mm) :



Ref.	DN (mm)	150
	DN (")	6"
983026	H6	596.5
	H7	55
	H8	106
	H9	229
	Ø V	465
	Gearbox weight (in Kg)	19.5
	Gearbox + valve weight (Kg)	107.6

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FLOW COEFFICIENT Kv (in m³/h) :

DN (mm)	15	20	25	40	50	80	100	150
DN (")	1/2"	3/4"	1"	1"1/2	2"	3"	4"	6"
Kv (m ³ / h)	20	40	75	170	270	1000	1650	4200

TORQUE VALUE (in Nm without safety coefficient) :

DN (mm)	15	20	25	40	50	80	100	150
DN (")	1/2"	3/4"	1"	1"1/2	2"	3"	4"	6"
Torque (Nm)	10	13	17	30	49	135	170	308

STANDARDS :

- Fabrication according to ISO 9001:2000
- DIRECTIVE 97/23/CE : CE N° 0062
Risk Category III module H
- Valve designing according to EN 1983 – ISO 17292
- Materials according to NACE MR 01-75
- Body designing according to ASME B16.34 and API 6D
- Tests according to EN 12266-1, range A
- Marking according to EN 19
- Fire safe according to ISO 10497 : 2004
- Fugitive Emissions according to EN 15848-1 : 2006
- ISO PN50 ANSI 300 Flanges R.F. according to ASME B16.5
- ISO 5211 mounting pad and stem size according to EN 15081
- Long length according to ASME B16.10 (EN 558-2 series 3,4 and 12)
- 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