

2 PIECES SPLIT BODY BALL VALVE FLANGED CLASS 300 PN50 ICP

2 pieces stainless steel split body ball valve ICP with full bore for Chemical industries, petrochemical industries, hydraulic installation, heating, water distribution, compressed air.

Ball valve with firesafe certificate ISO 10497 to reduce risks in case of fire.

Fugitive emission according to EN 15848-1 :2006 for an excellent tightness on the stem and to prevent external leakage.

PTFE seat for a temperature up to +230°C.

Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22 thanks to the antistatic device.

Handling possible with gearbox or stainless steel handle.

Thanks to the ISO 5211 plate, an actuator can be installed on the valve.



NACE
MR01-75

ICP
VALVES

Certificate
3.1



PED/2014/68/UE
BUREAU VERITAS
Certification



Size : DN15 to DN200 (NPS 1/2" to NPS 8")

Connection : Flanged Class 300 (PN50) RF

Min Temperature : -50°C

Max Temperature : +230°C

Max Pressure : 50 bars

Specifications : Antistatic device, ATEX

ISO 5211 mounting pad

Anti blow-out stem, full bore

Fugitive Emissions EN 15848-1 :2006

Fire Safe ISO 10497 :2004

Materials : Stainless Steel ASTM A351 CF8M

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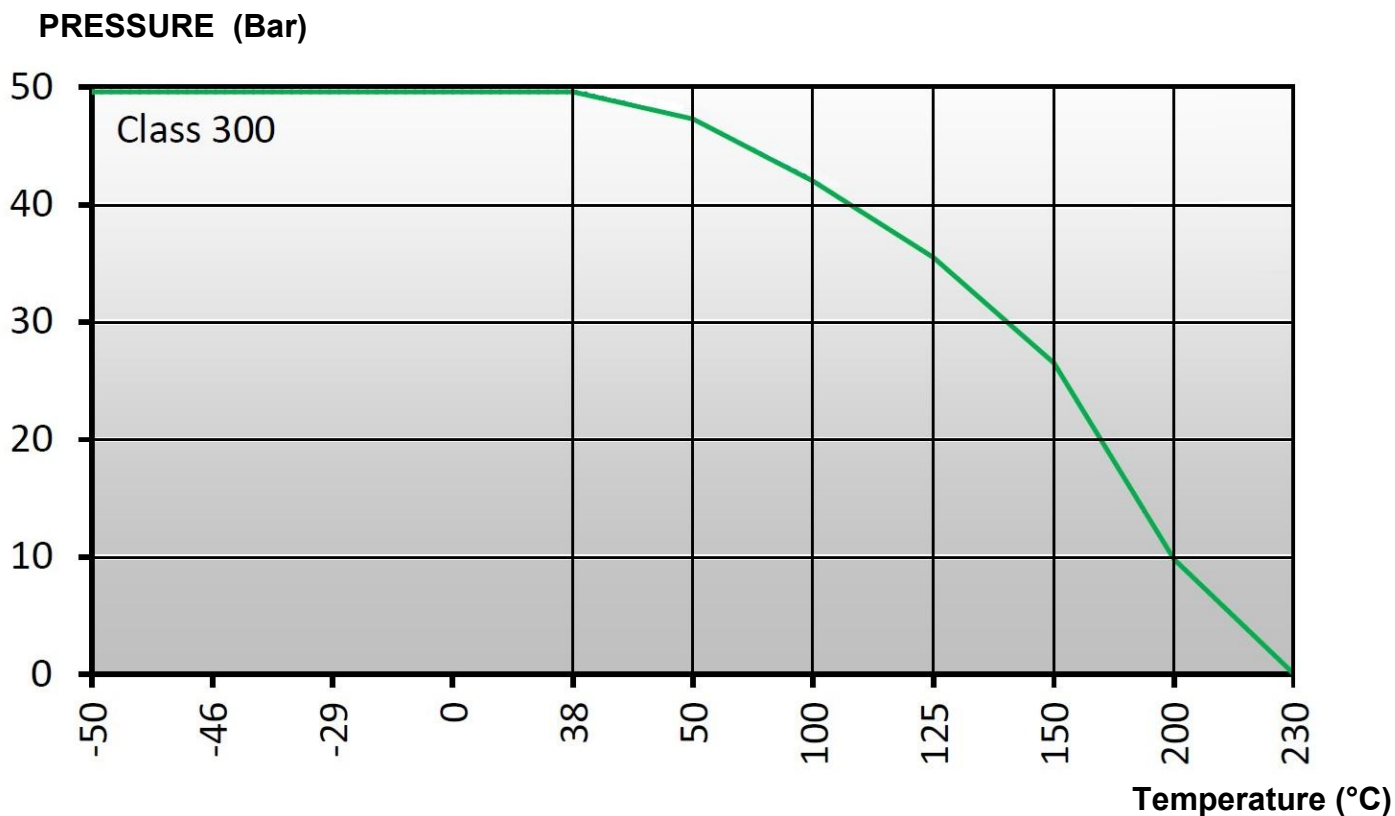
SPECIFICATIONS :

- Full bore
- Anti blow-out stem
- PTFE seat
- Locking device
- ISO 5211 mounting pad
- 2 pieces type (Split body)
- Class 300 PN50 RF 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)

USE :

- Chemical industries, petrochemical industries, hydraulic installation, heating, water distribution, compressed air
- Min and max Temperature Ts : -50°C to + 230°C
- Max Pressure Ps : 50 bars
- Vacuum 10^{-2} torr
- Compressed air (ambient temperature) : 50 bars maximum
- Steam : 12 bars maximum

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :



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FLOW COEFFICIENT Kvs (in m³ / h) :

DN (mm)	15	20	25	40	50	80	100	150	200
NPS (")	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
Kvs (m ³ / h)	20	40	75	170	270	1000	1650	4200	9000

TORQUE VALUE (in Nm without safety coefficient) :

DN (mm)	15	20	25	40	50	80	100	150	200
NPS (")	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
Torque (Nm)	10	13	17	30	49	135	170	308	780
MAST (Nm)	17		27.2	91.7		173.7	355.4	733.8	1739.5

TORQUE VARIATION AS FUNCTION OF FREQUENCY :

Frequency	Torque multiplier
Once per day	*1
Once per month	*1.3
Once per 6 month	*1.5

RANGE :

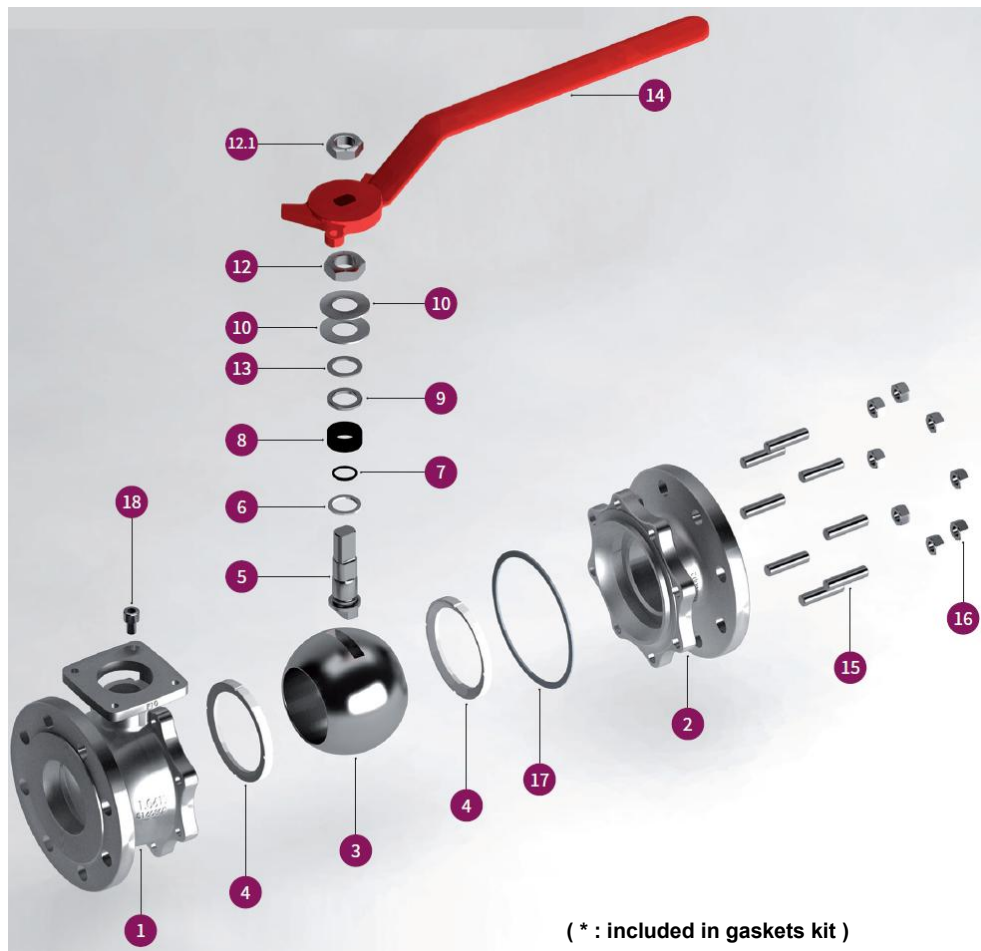
- Stainless steel ball valve **Ref. 769** DN 15 to DN 200 (NPS 1/2" to 8")
- Possible with gearbox **Ref. 9830221 and 9830266-267** from DN 100 to 200 (NPS 4" to 8")
- Stainless steel handle ASTM A351 CF8M **Ref. 9812090-9812097** from DN 15 to DN 200 (NPS 1/2" to 8")

CONNECTION :

- Class 300 (PN50) R.F. Flanges

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VALVE MATERIALS :



(* : included in gaskets kit)

Repairability :



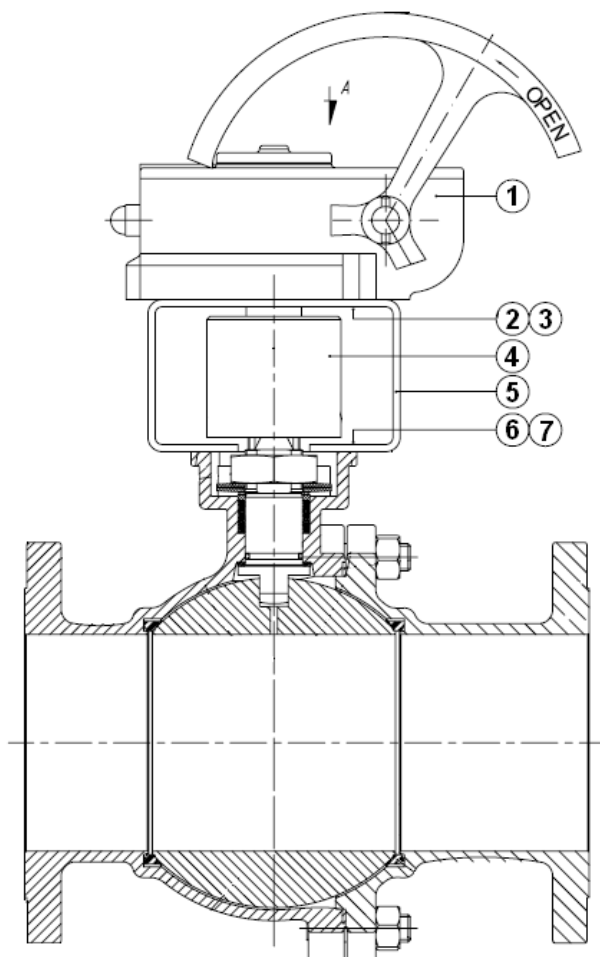
*Gaskets kit (items 4, 6, 7, 8 and 17)

DN15	NPS 1/2"	9804388
DN20	NPS 3/4"	9804389
DN25	NPS 1"	9804390
DN40	NPS 1 1/2"	9804391
DN50	NPS 2"	9804392
DN65	NPS 2 1/2"	9804393
DN80	NPS 3"	9804394
DN100	NPS 4"	9804395
DN150	NPS 6"	9804396
DN200	NPS 8"	9804397

Item	Designation	Materials
1	Body	ASTM A351 CF8M
2	Ends	
3	Ball	
4*	Seat	PTFE
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	AISI 303
10	Elastic ring	Inconel 718
12	Gland nut	AISI 303
12.1	Handle nut	AISI 303
13	Antifriction washer	PTFE filled with 25% glass
14	Handle	Nodular iron
15	Stud	A 193 Gr. B8M
16	Nut	A 194 Gr. 8M
17*	Spiralwound gasket	SS 316L + PTFE + Graphite
18	Bolt	A2

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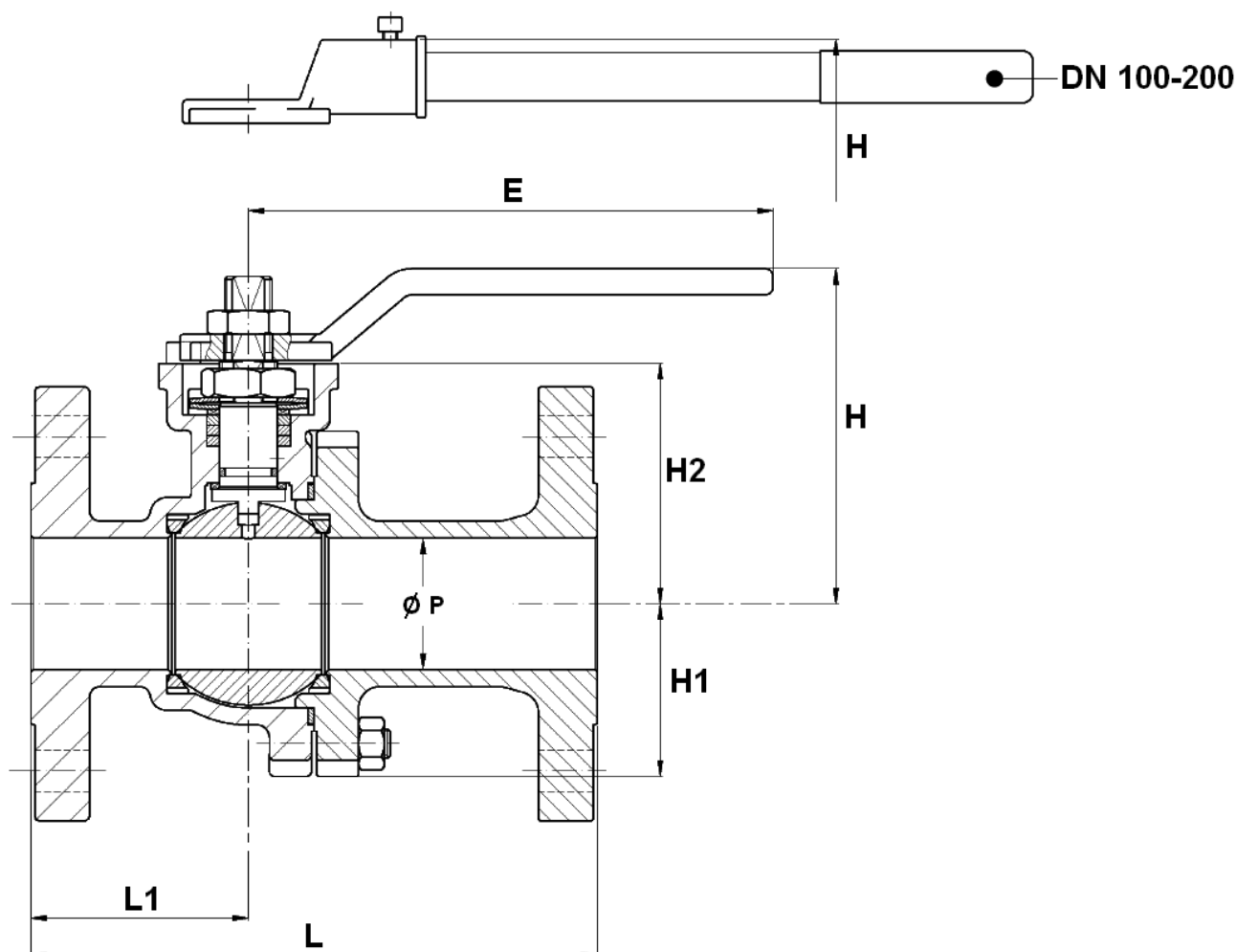
GEARBOX MATERIALS :



Item	Designation	Materials
1	Gearbox	Aluminium or painted steel
2	Screw	A4-70
3	Washer	A4
4	Coupling	AISI 303
5	Mounting bracket	A276 Tp.304
6	Screw	A4-70
7	Washer	A4

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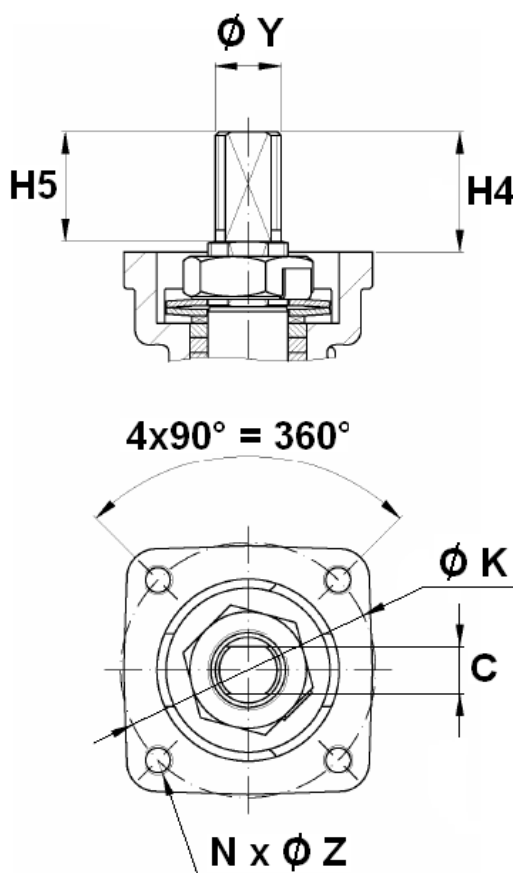
VALVE SIZE (in mm) :



DN (mm)	15	20	25	40	50	80	100	150	200
NPS (")	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
Ø P	15	20	25	40	50	78	100	151	203
L	140	152	165	190	216	283	305	403	502
L1	60	65	70	80	83	118	133	160	239
E	170	170	170	215	215	430	466	680	845
H	68	70	86	122.5	127.5	190	192.5	259	319
H1	31	33	39	48	63	87	108	152	202
H2	41	43	58.5	86.5	91.5	118.5	144	203	250
Weight (Kg)	2.5	3.7	4.7	9.4	12.2	25	39.5	88.1	160.5
Ref.	769015	769020	769025	769040	769050	769080	769100	769150	769200

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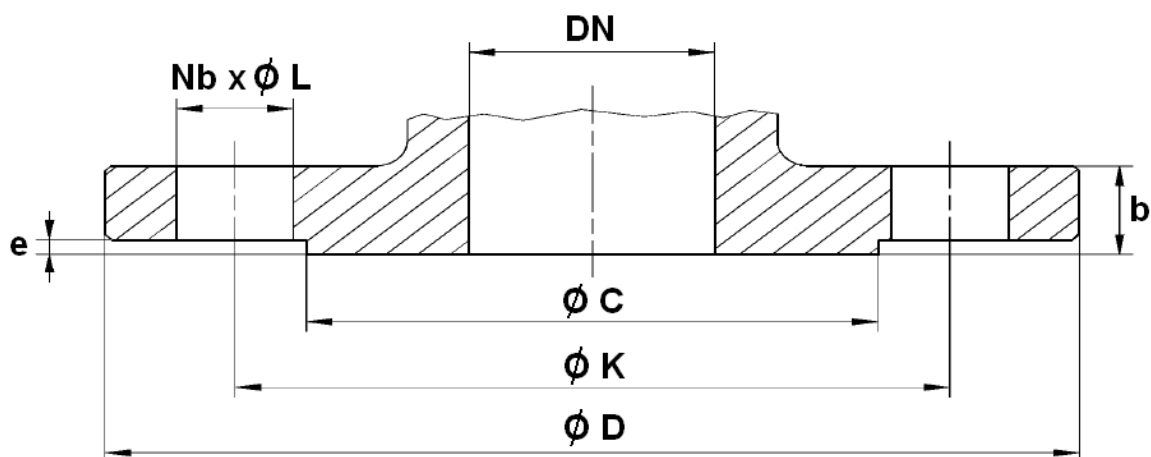
STEM AND ISO PLATE SIZE (in mm) :



DN (mm)	15	20	25	40	50	80	100	150	200
NPS (")	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
H4	18		22	33		34	45	56	69
H5	11		21	32		33	43.5	54.5	67
C	7		8	12		15	19	24	32
Ø Y	M10		M12	M18		M22	M28	M36	M48
Ø K	50			70		102		125	140
ISO	F05			F07		F10		F12	F14
N x Ø Z	4 x M6			4 x M8		4 x M10		4 x M12	4 x M16

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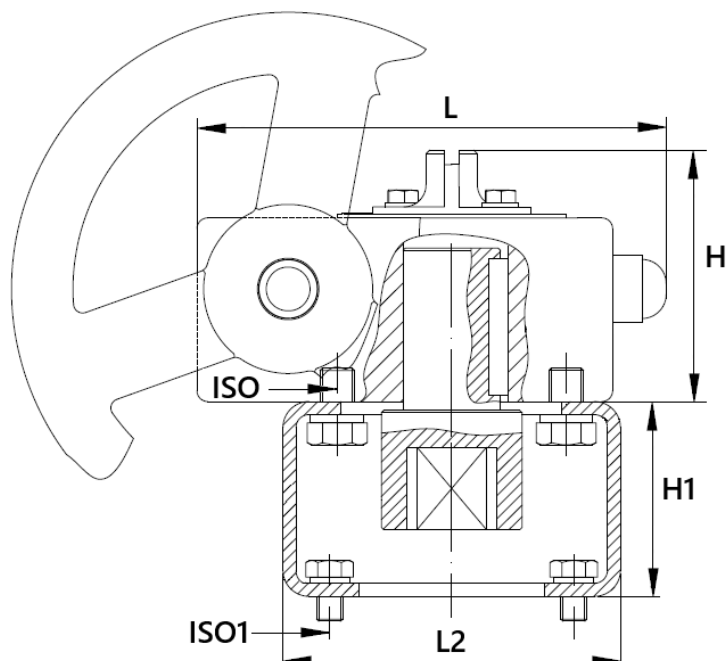
FLANGES SIZE (in mm) :



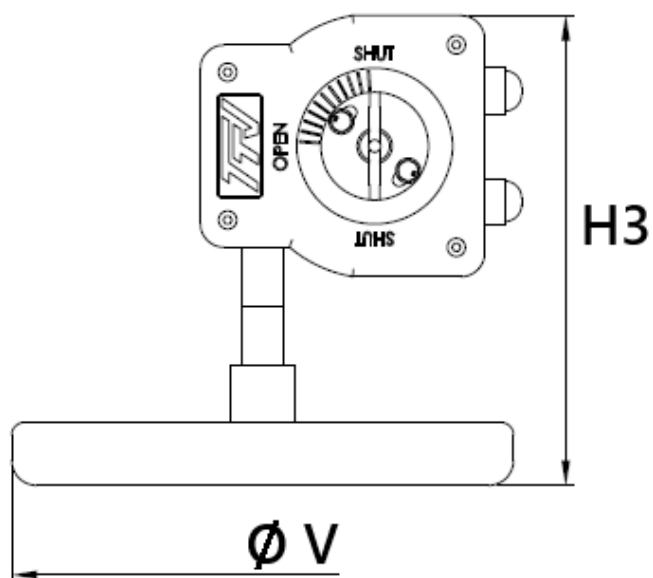
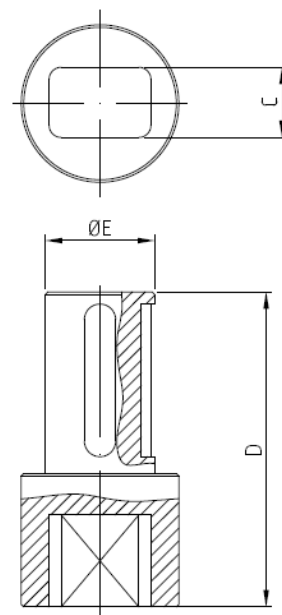
DN (mm)	15	20	25	40	50	80	100	150	200
NPS (")	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
Ø C	35	43	51	73	92	127	157	216	270
Ø D	95	117.5	124	155.5	165	210	254	318	381
Ø K	66.55	82.55	88.9	114.3	127	168.1	200.15	269.75	330.2
Nb x Ø L	4 x 15.74	4 x 19	4 x 19	4 x 22.2	8 x 19	8 x 22.2	8 x 22.2	12 x 22.2	12 x 25.4
b	14.3	15.8	17.6	20.6	22.4	28.5	31.8	36.6	41.2
e	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

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GEARBOX SIZE DN100-200 (in mm) :



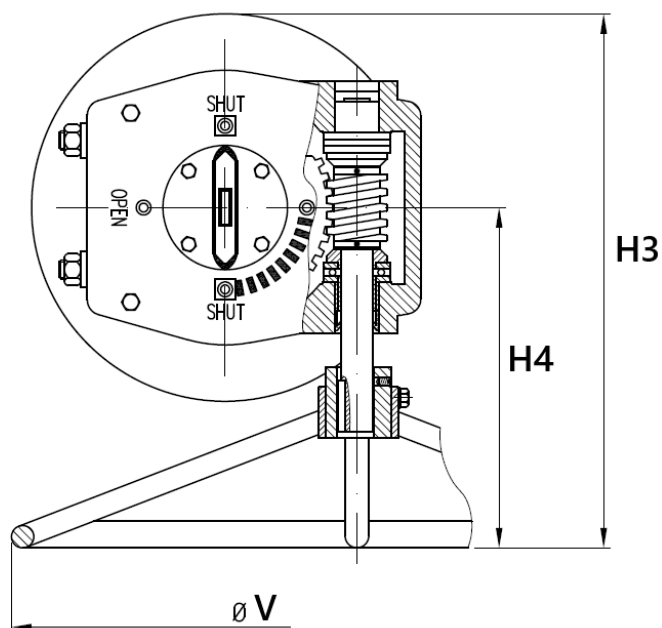
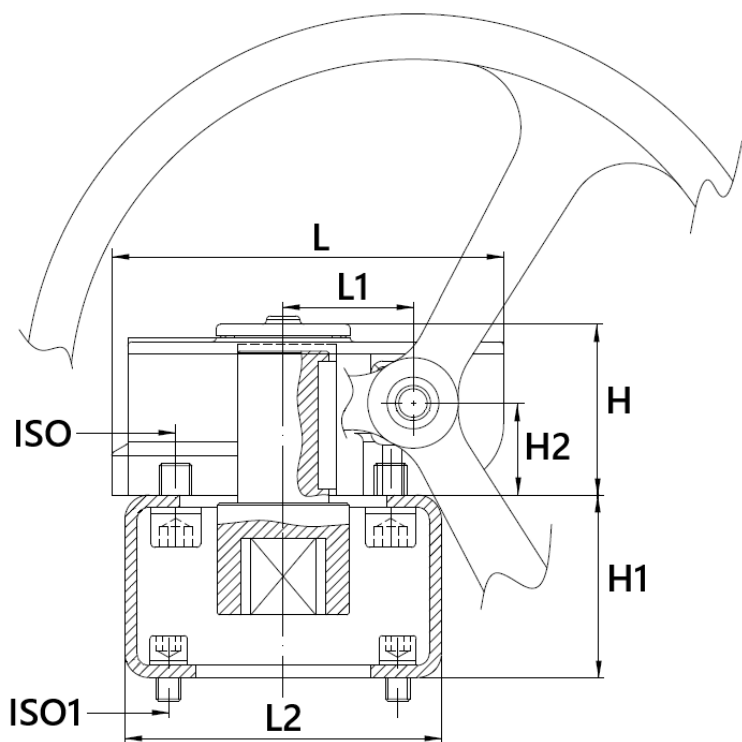
COUPLING :



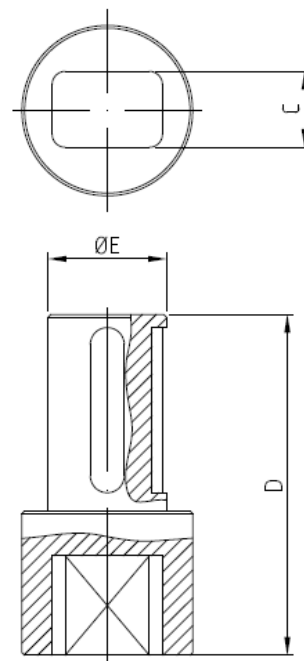
DN (mm)	100	200
NPS (")	4"	8"
H	73	126
H1	80	90
H3	165	418
L	130	224
L2	120	160
Ø V	140	400
ISO	F07	F14
ISO1	F10	F14
C	19	32
D	119	138
Ø E	32	54
Weight (in Kg)	4.2	16.5
Torque (Nm)	250	1200
Ref.	9830221	9830267

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GEARBOX SIZE DN150 (in mm) :



COUPLING :

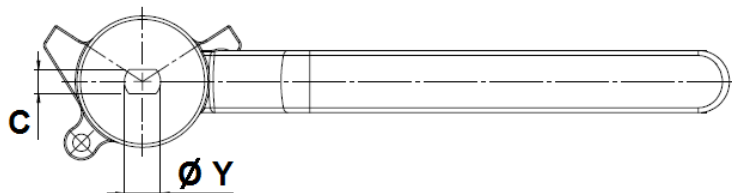
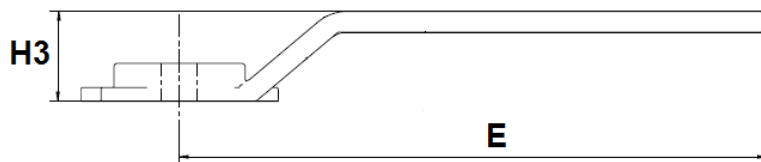


DN (mm)	150
NPS (")	6"
H	102
H1	80
H2	56
H3	365
H4	255
L	217
L1	77.5
L2	160
Ø V	465
ISO	F14
ISO1	F12
C	24
D	130
Ø E	45
Weight (in Kg)	22.3
Torque (Nm)	1200
Ref.	9830266

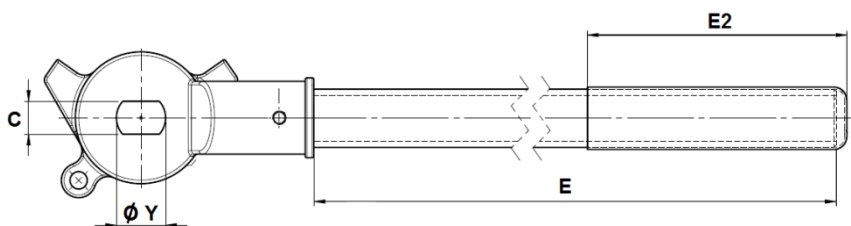
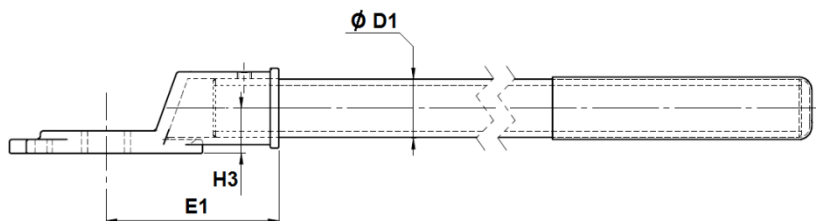
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STAINLESS STEEL HANDLE SIZE (in mm) :

DN 15 - 80



DN 100 - 200



DN	15-20	25-32	40-50	65	80	100	125-150	200
NPS (")	1/2"-3/4"	1"-1"1/4"	1"1/2"-2"	2"1/2"	3"	4"	5"-6"	8"
E	170	170	215	335	430	375	578	730
E1	-	-	-	-	-	100	115	140
E2	-	-	-	-	-	120	200	200
H3	26	26	35	35	71	26	30	36
Ø D1	-	-	-	-	-	26.8	33	42
C	7	8	12	15	15	19	24	32
Ø Y	10.5	12.5	18.5	22.5	22.5	28.5	36.5	48.5
Ref.	9812090	9812091	9812092	9812093	9812094	9812095	9812096	9812097

**2 PIECES SPLIT BODY BALL VALVE FLANGED CLASS 300 PN50 ICP****STANDARDS :**

- Manufacturer certified ISO 9001:2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
 - DN15-25 (NPS 1/2"-1") : Article 4, §3 (SEP), no CE marking
 - DN40-100 (NPS 1"1/2-4") : Risk Category II, CE0035 or CE1035 marking
 - DN150-200 (NPS 6"-8") : Risk Category III, CE0035 or CE1035 marking
- Certificate 3.1 on request
- Valve designing according to EN 1983 – ISO 17292 and ASME B16.34
- Materials according to NACE MR 01-75
- Pressure Tests according to EN 12266-1, Rate A and API 598
- Marking according to EN 19
- Fire safe according to ISO 10497 : 2004
- Fugitive Emissions according to EN 15848-1 : 2006
- Class 300 (PN50) Flanges R.F. according to ASME B16.5
- ISO 5211 mounting pad and stem size according to EN 15081
- Length according to ASME B16.10 (EN 558 series 4 up to DN150)
- ATEX Group II Category 2 G/2Dc Zone 1 & 21 Zone 2 & 22 (optional marking) according to directive 2014/34/EU

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The customer must check the right choice of the products with the real service conditions.